APPENDIX F

Summary Analytical Reports

Soil and Groundwater Analytical Reports

SCILAB
FULL SERVICE ENVIRONMENTAL LABORATORIES

SCILAB ALBANY, INC.
15 Century Hill Drive
P.O. Box 787
Latham, NY 12110
Tel: (518) 786-8100
Fax: (518) 786-7700

Laboratory Analysis and QA/QC Report

Prepared for: McLaren and Hart Environmental,

Attn: Scott Alderfer

Project: CARMEL NY

SDG: GW-02

SCILAB Task Number: 9908-00219

October 10th 1999

Submitted by:
SCILAB Albany, Inc.

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SDG NARRATIVE

SCILAB Albany, Inc. performed analyses on the following samples:

LAB ID	CLIENT ID	DATE RECEIVED	VTSR	MATRIX
9908-00219-001	GW-02	8/12/99	09:50	WATER
9908-00219-002	GW-03	8/12/99	09:50	WATER
9908-00219-003	GW-04 B	8/12/99	09:50	WATER
9908-00219-004	GW-05	8/12/99	09:50	WATER
9908-00219-005	TB081699	8/12/99	09:50	WATER
9908-00219-006	RB081699	8/12/99	09:50	WATER

Technical problems encountered during this analysis:

- It should be noted that due to matrix interference and carryover on the original analytical run, samples #9908-219-01 - #9908-219-06 had surrogates and internal standards outside QC Limits. As a result the samples were re-run and results were reported only from the re-runs.
- A re-run analysis for #9908-219-06Matrix Spike and #9908-219-06Matrix Spike Duplicate was not performed due to insufficient sample available.

The above QC excursions DO NOT invalidate the SDG.

"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 conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Signature: Carol L Hagnon For Name: David O'Hehir

Date: 10/12/99 Title: Quality Assurance Officer

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SCILAB ALBANY INC.
15 Century Hill Dr
P.O. Box 787
Latham, NY 12110
518-786-8100
FAX 518-786-7700

CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

TASK # 990000219

Client McLAREN/HART
Client Contact DAMON HOPPER
Project Location CARMEL, N.Y.
Purchase Order

Sampler's Name JON KLINK (please print)
Contact
Turnaround Time Requested 2 WEEK TAT

LAB ID	Sample ID/Description	Date Sampled	Time A = a.m. P = p.m.	Sample Type: Matrix	Sample Type: COMP	Sample Type: GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
1	GW ~~MW~~-02 (JK)	8/16/99	1845	WATER			3	1	VOCs 8260
2	GW ~~MW~~-03 (JK)		1820						
3	GW ~~MW~~-04B (JK)		1700						
4	GW ~~MW~~-05 (JK)		1855						
5	TB081699		—						
6	RB081699		1735						

Sampled by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	8/16/99		
Relinquished by: (signature)	8/16/99 20:00	Received by: (signature) FEDEX - NEWBURGH, N.Y.	8/16/99 20:00
Relinquished by: (signature)		Received by: (signature)	
Dispatched by: (signature)		Received for Laboratory by:	8-17-99 9:50

Preservatives

1. HCl
2. HNO_3
3. NaOH
4. NaS_2O_3
5. Zn Acet
6. Ascorbic
7. H_2SO_4
8. F (Filtered)
9. N (not preserved)
10. Other

Sample Condition

1. Samples intact? Y N
2. Custody seals intact? Y N
3. Preserved properly? Y N
4. Ambient or chilled?
5. C.O.C. received with samples? Y N

Method of Shipment:

Date:

NOTES/COMMENTS/BILLING INFORMATION:

BILL TO: DAMON HOPPER
McLAREN/HART, INC.
25 INDEPENDENCE BLVD
WARREN, N.J. 07059

SEND ANALYTICAL RESULTS TO: JON KLINK
14 CANOSIN CIR.
ALBANY, N.Y. 12205

2A

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER #	TOT OUT
01	VBLKW	99	106	92		0
02	VBLKMSW	103	105	91		0
03	~~9908-219-01 1:100~~	~~130 *~~	~~111 *~~	~~75 *~~		3
04	~~9908-219-04 1:100~~	~~0 *~~	~~0 *~~	~~0 *~~		3
05	~~9908-219-02 1:50~~	~~101~~	~~105~~	~~92~~		0
06	~~9908-219-03~~	~~101~~	~~104~~	~~91~~		0
08	9908-219-06 MSD	0 *	0 *	0 *		3
09	9908-219-06 MS	0 *	0 *	0 *		3
10	~~9908-219-06~~	~~116~~	~~108~~	~~93~~		0
11	~~9908-219-05~~	~~0 *~~	~~0 *~~	~~0 *~~		3
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	QC LIMITS
SMC1 (DBF) = Dibromofluoromethane	(80-120)
SMC2 (TOL) = Toluene-d8	(81-117)
SMC3 (BFB) = Bromofluorobenzene	(74-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER #	TOT OUT
01	VBLKW	92	99	93		0
02	VBLKMSW	91	89	92		0
03	9908-219-05 RR	90	88	90		0
04	9908-219-01 1:50	91	100	93		0
05	9908-219-04 1:50	90	97	90		0
06	9908-219-02 1:50 RR	92	101	92		0
08	9908-219-03 RR	109	101	96		0
09	9908-219-06 RR	91	94	93		0
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	QC LIMITS
SMC1 (DBF) = Dibromofluoromethane	(80-120)
SMC2 (TOL) = Toluene-d8	(81-117)
SMC3 (BFB) = Bromofluorobenzene	(74-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix Spike - Sample No.: BLANK 8/23/99

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50	0	66	132		(59-172)
Trichloroethene	50	0	62	123		(62-137)
Benzene	50	0	60	119		(66-142)
Toluene	50	0	62	124		(59-139)
Chlorobenzene	50	0	57	114		(60-133)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

_____

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3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix Spike - Sample No.: BLANK 8/24/99

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50	0	72	145		(59-172)
Trichloroethene	50	0	57	113		(62-137)
Benzene	50	0	63	125		(66-142)
Toluene	50	0	52	104		(59-139)
Chlorobenzene	50	0	57	114		(60-133)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

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3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix Spike - Sample No.: 9908-219-06 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50	0	109	218	*	(59-172)
Trichloroethene	50	0	62	125		(62-137)
Benzene	50	0	66	132		(66-142)
Toluene	50	0	61	122		(59-139)
Chlorobenzene	50	0	58	116		(60-133)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MS % REC	#	% RPD	#	QC LIMITS RPD	REC.
1,1-Dichloroethene	50	106	211	*	2		22	(59-172)
Trichloroethene	50	60	119		5		24	(62-137)
Benzene	50	63	127		4		21	(66-142)
Toluene	50	59	118		3		21	(59-139)
Chlorobenzene	50	56	111		4		21	(60-133)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: * OUTSIDE OF QC LIMITS DUE TO CARRYOVER FROM SAMPLES RUN PREVIOUS TO THE #9907-419-08MS AND #9907-419-08MSD

000018

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKW

Lab Name: SCILAB GROUP OF ALBANY Contract:

ect No.: Site: Location: Group: GW-02

Lab File ID: F2700 Lab Sample ID: VBLKW

Date Analyzed: 8/23/99 Time Analyzed: 1842

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: H5971-E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSTD050	VSTD050	F2699	18:04
02	VBLKMSW	VBLKMSW	F2701	1920
04	GW-02 1:100	9908-219-01 1:100	F2706	2232
05	GW-05 1:100	9908-219-04 1:100	F2707	2310
06	GW-03 1:50	9908-219-02 1:50	F2708	2349
07	GW-04 B	9908-219-03	F2709	0027
08	RB081699 MSD	9908-219-06 MSD	F2710	0105
09	RB081699 MS	9908-219-06 MS	F2711	0144
10	RB081699	9908-219-06	F2712	0222
11	TB081699	9908-219-05	F2713	0301
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKW

Lab Name: SCILAB GROUP OF ALBANY Contract:

Project No.: Site: Location: Group: GW-02

Lab File ID: F2719 Lab Sample ID: VBLKW

Date Analyzed: 8/24/99 Time Analyzed: 1318

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N)

Instrument ID: H5971-E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSTD050	VSTD050	F2718	12:40
02	VBLKMSW	VBLKMSW	F2720	1356
04	TB081699 RR	9908-219-05 RR	F2721	1434
05	GW-02 1:50	9908-219-01 1:50	F2722	1512
06	GW-05 1:50	9908-219-04 1:50	F2723	1617
07	GW-03 1:50 RR	9908-219-02 1:50 RR	F2724	1655
08	GW-04 B RR	9908-219-03 RR	F2725	1733
09	RB081699 RR	9908-219-06 RR	F2726	1812
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COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Lab File ID: F2173 BFB Injection Date: 7/7/99

Instrument ID: H5971-E BFB Injection Time: 1729

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.6
75	30.0 - 66.0% of mass 95	51.2
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 ~~0.0~~ (0.5)1
174	50.0 - 120.0% of mass 95	90.2
175	4.0 - 9.0% of mass 174	6.6 ~~4.0~~ (7.3)1
176	93.0 - 101.0% of mass 174	88.0 ~~55.0~~ (97.5)1
177	5.0 - 9.0% of mass 176	5.9 ~~3.0~~ (6.7)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	F2175	7/7/99	1850
02	VSTD020	VSTD020	F2176	7/7/99	1931
03	VSTD050	VSTD050	F2178	7/7/99	2052
04	VSTD100	VSTD100	F2180	7/7/99	2213
05	VSTD200	VSTD200	F2183	7/8/99	0016
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5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Lab File ID: F2698 BFB Injection Date: 8/23/99

Instrument ID: H5971-E BFB Injection Time: 1726

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.4
75	30.0 - 66.0% of mass 95	51.8
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 ~~0.0~~ (0.4)1
174	50.0 - 120.0% of mass 95	90
175	4.0 - 9.0% of mass 174	6.7 ~~4.0~~ (7.4)1
176	93.0 - 101.0% of mass 174 (97.4)	~~55.0~~ (97.1)1
177	5.0 - 9.0% of mass 176	5.8 ~~3.6~~ (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:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	F2699	8/23/99	1804
02	VBLKW	VBLKW	F2700	8/23/99	1842
03	VBLKMSW	VBLKMSW	F2701	8/23/99	1920
04	GW-02 1:100	9908-219-01 1:100	F2706	8/23/99	2232
06	GW-05 1:100	9908-219-04 1:100	F2707	8/23/99	2310
07	GW-03 1:50	9908-219-02 1:50	F2708	8/23/99	2349
09	GW-04 B	9908-219-03	F2709	8/24/99	0027
10	RB081699 MSD	9908-219-06 MSD	F2710	8/24/99	0105
11	RB081699 MS	9908-219-06 MS	F2711	8/24/99	0144
12	RB081699	9908-219-06	F2712	8/24/99	0222
13	TB081699	9908-219-05	F2713	8/24/99	0301
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5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Lab File ID: F2715 BFB Injection Date: 8/24/99

Instrument ID: H5971-E BFB Injection Time: 1045

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.9
75	30.0 - 66.0% of mass 95	52.1
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 ~~0.0~~ (0.7)1
174	50.0 - 120.0% of mass 95	91.4
175	4.0 - 9.0% of mass 174	6.6 ~~4.0~~ (7.3)1
176	93.0 - 101.0% of mass 174 (88.4)	~~55.0~~ (96.8)1
177	5.0 - 9.0% of mass 176	6.0 ~~3.6~~ (6.7)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	F2718	8/24/99	1240
02	VBLKW	VBLKW	F2719	8/24/99	1318
03	VBLKMSW	VBLKMSW	F2720	8/24/99	1356
04	TB081699 RR	9908-219-05 RR	F2721	8/24/99	1434
06	GW-02 1:50	9908-219-01 1:50	F2722	8/24/99	1512
07	GW-05 1:50	9908-219-04 1:50	F2723	8/24/99	1617
09	GW-03 1:50 RR	9908-219-02 1:50 RR	F2724	8/24/99	1655
10	GW-04 B RR	9908-219-03 RR	F2725	8/24/99	1733
11	RB081699 RR	9908-219-06 RR	F2726	8/24/99	1812
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-02

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2722

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100.0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 50.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	500	U
74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-00-3	Chloroethane	500	U
75-01-2	Trichloroflouromethane	500	U
75-00-3	Acrolein	500	U
75-35-4	1,1-Dichloroethylene	250	U
67-64-1	Iodomethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	250	U
75-09-2	Methylene Chloride	490	U
67-64-1	Acrylonitrile	500	U
156-60-5	t-1,2-Dichloroethene	250	U
156-60-5	2,2-Dichloropropane	250	U
75-34-4	1,1-Dichloroethane	250	U
67-66-3	Vinyl Acetate	500	U
78-93-3	2-Butanone	500	U
	cis-1,3-Dichloroethylene	250	U
67-66-3	Chloroform	250	U
75-27-4	Bromochloromethane	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon Tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
124-48-1	Dibromomethane	250	U
108-10-1	4-Methyl-2-Pentanone	500	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U

000024

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-02

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2722

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
121-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
127-18-4	1,2-Dibromomethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
	1,3,5-Trimethylbenzene	250	U
	Xylene (total)	250	U
79-34-5	1,1,1,2-Tetrachloroethane	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
79-34-5	1,3-Dichlorobenzene	250	U
79-34-5	1,4-Dichlorobenzene	250	U
79-34-5	1,2-Dichlorobenzene	250	U
79-34-5	1,2-Dibromo-3-Chloropropane	500	U

000025

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0824\2722.D
Acq On : 24 Aug 1999 3:12 pm
Sample : 9908-219-01 1:50 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 13:56 1999

Vial: 8
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	179629	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	256258m	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	230251m	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	200549	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	72793m	45.65	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.30%		
46) Toluene-d8	15.59	98	321441	49.79	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.58%		
65) Bromofluorobenzene	19.87	95	120004	46.58	ug/l	0.00
Spiked Amount 50.000			Recovery =	93.16%		
Target Compounds						Qvalue
11) Diethyl Ether	NTC → 8.04	59	13474m	12.17	ug/l	
15) Methylene Chloride	490 8.66	49	20300m	9.83	ug/l	

000026

(#) = qualifier out of range (m) = manual integration
2722.D 8260S.M Tue Oct 05 16:37:21 1999

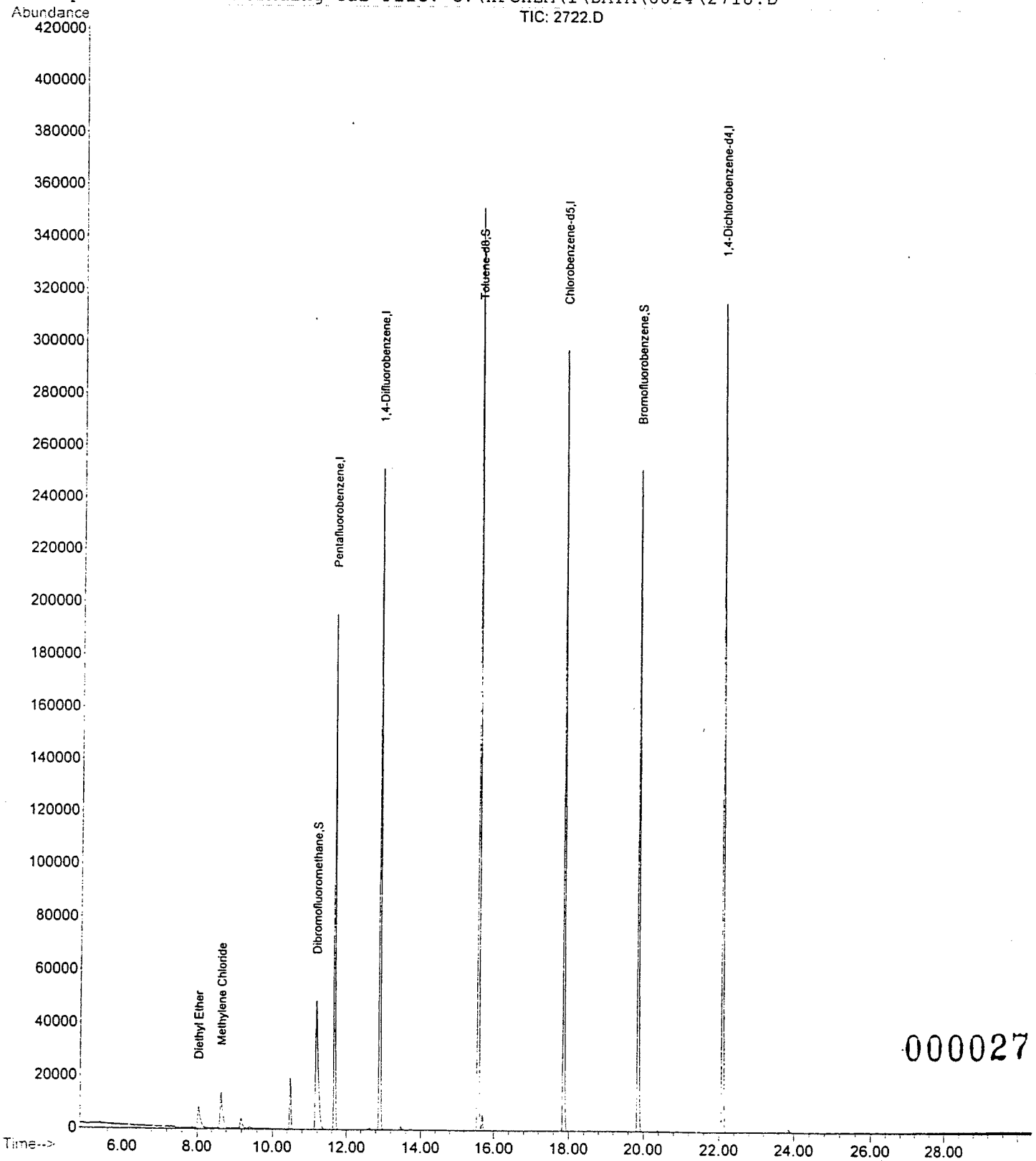
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0824\2722.D
Acq On : 24 Aug 1999 3:12 pm
Sample : 9908-219-01 1:50 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 13:56 1999

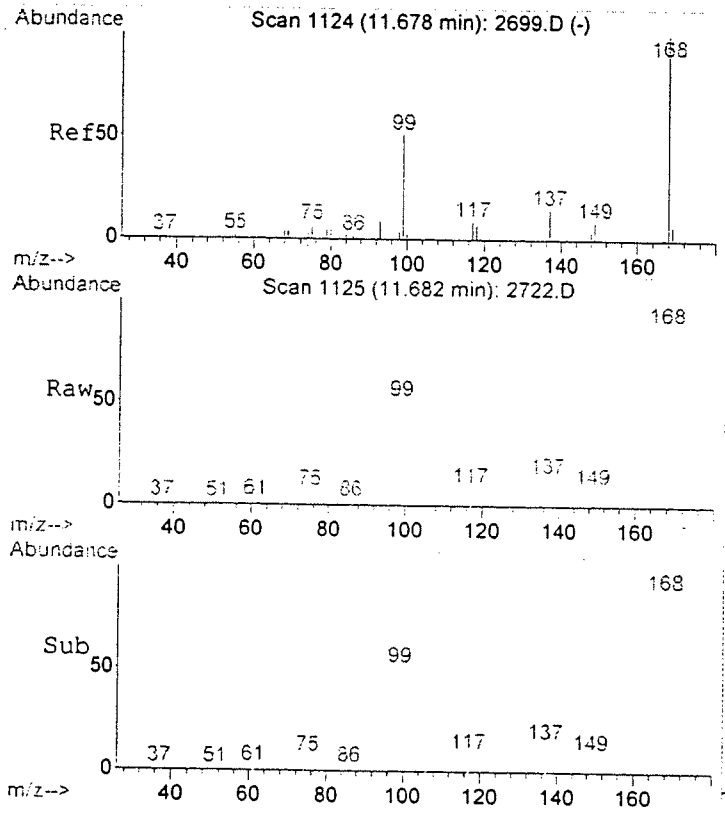
Vial: 8
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\8260S.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 05 16:09:30 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



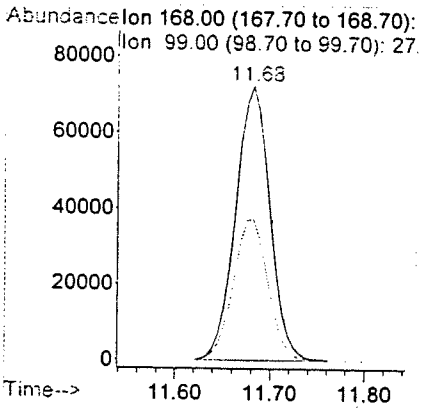
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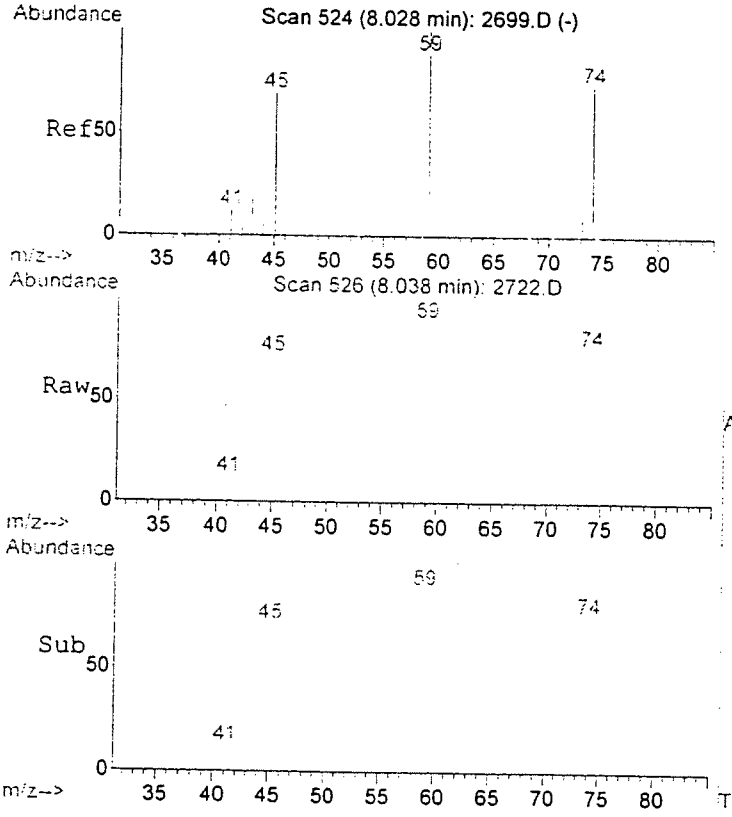


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1125
Delta R.T. 0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion:168 Resp: 179629

Ion	Ratio	Lower	Upper
168	100		
99	52.2	44.1	66.1

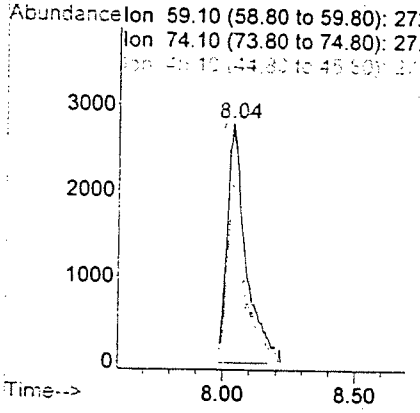




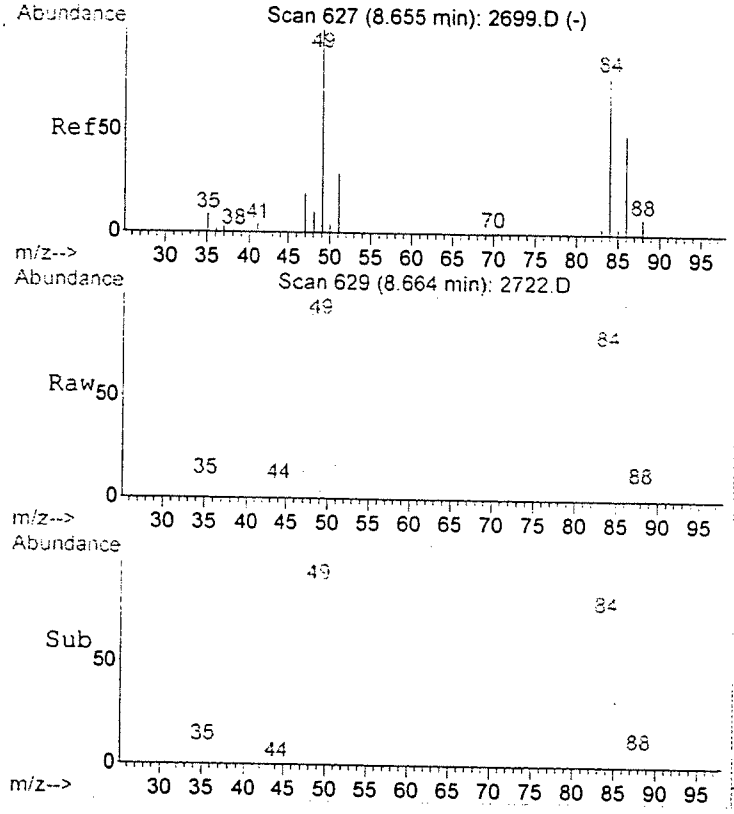
#11
Diethyl Ether
Concen: 12.17 ug/l m
RT: 8.04 min Scan# 526
Delta R.T. 0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion: 59 Resp: 13474

Ion	Ratio	Lower	Upper
59	100		
74	69.9	59.1	88.7
45	71.7	57.4	86.0



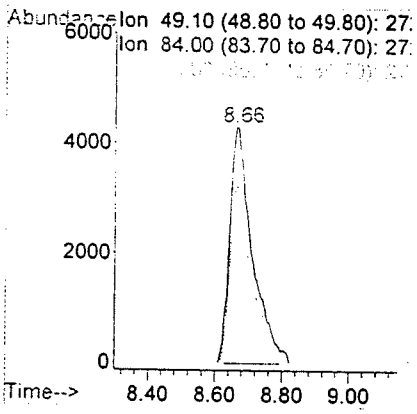
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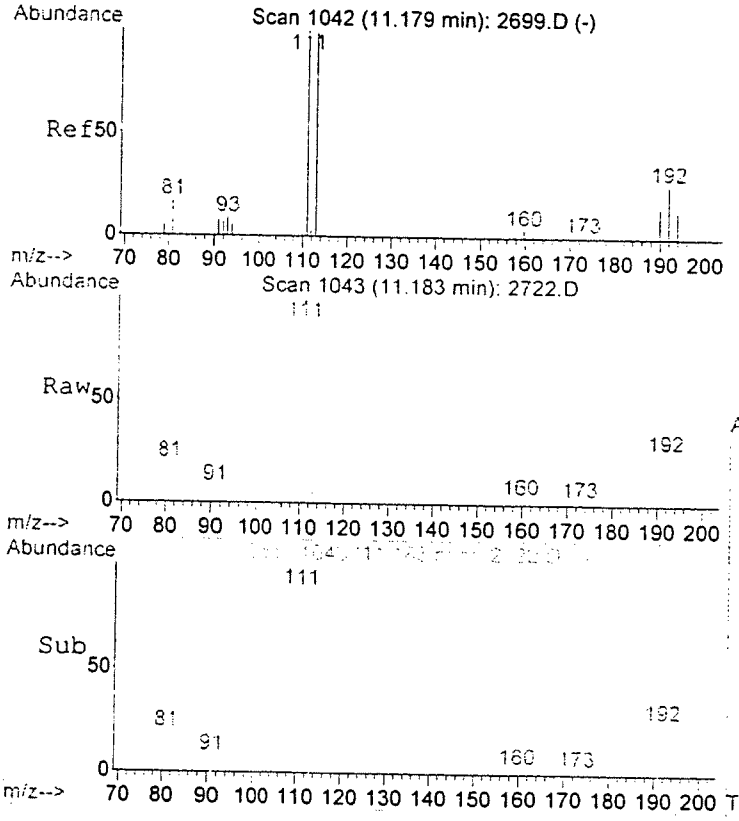


#15
Methylene Chloride
Concen: 9.83 ug/l m
RT: 8.66 min Scan# 629
Delta R.T. 0.01 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion: 49 Resp: 20300

Ion	Ratio	Lower	Upper
49	100		
84	73.8	65.4	98.0
86	47.1	41.9	62.9

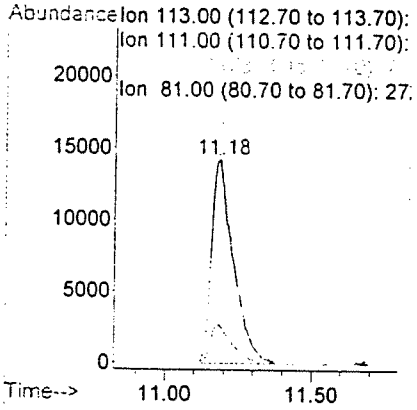




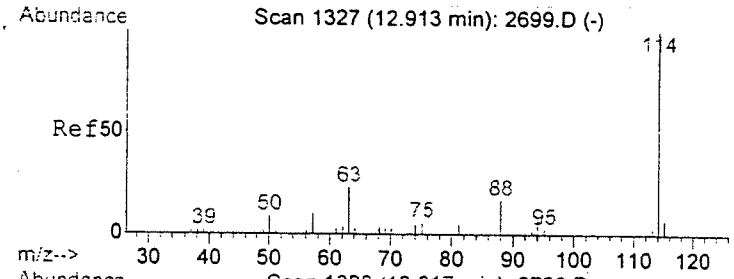
#27
Dibromofluoromethane
Concen: 45.65 ug/l m
RT: 11.18 min Scan# 1043
Delta R.T. 0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion:113 Resp: 72793

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.0	121.6
79	19.2	15.4	23.0
81	18.9	14.4	21.6

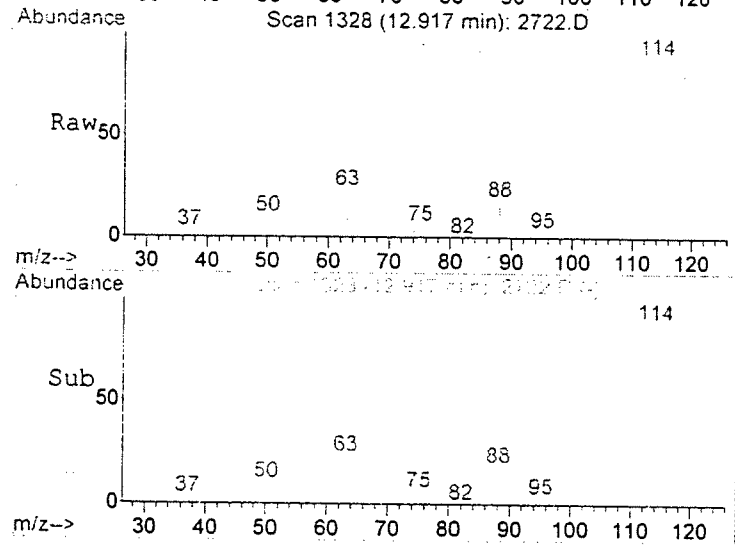


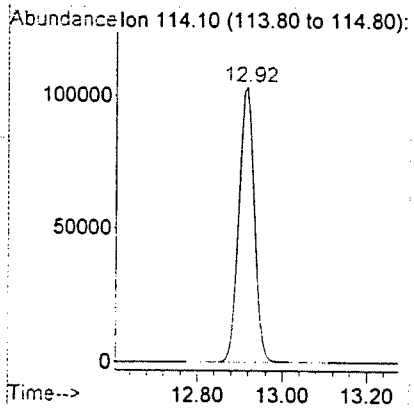
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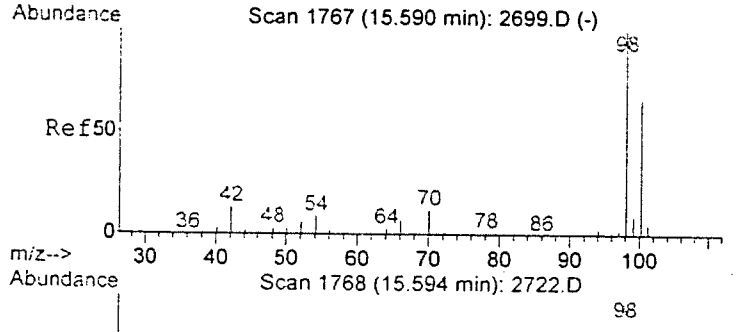


#35
1,4-Difluorobenzene
Concen: 50.00 ug/l m
RT: 12.92 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion:114 Resp: 256258



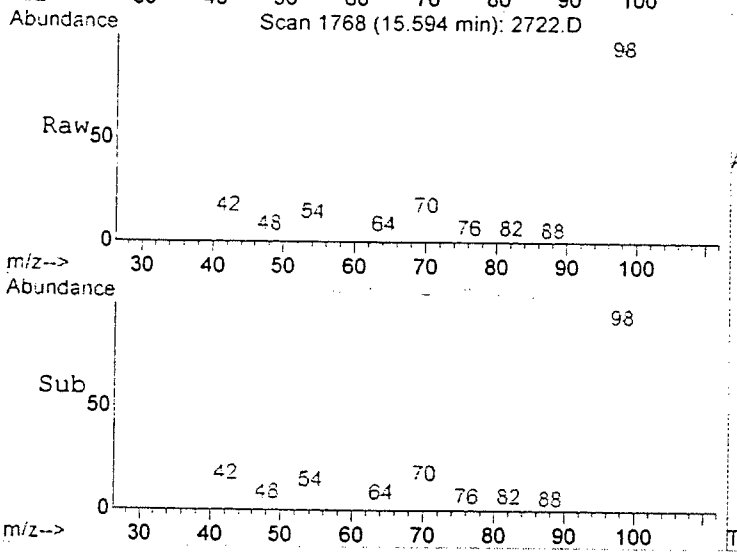


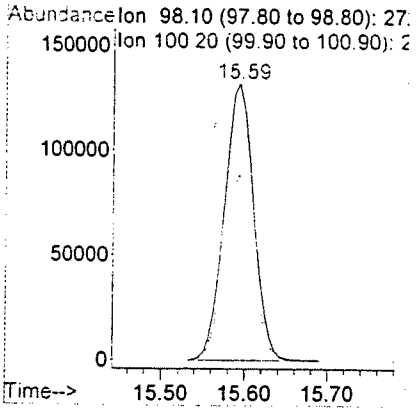


#46
Toluene-d8
Concen: 49.79 ug/l
RT: 15.59 min Scan# 1768
Delta R.T. 0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

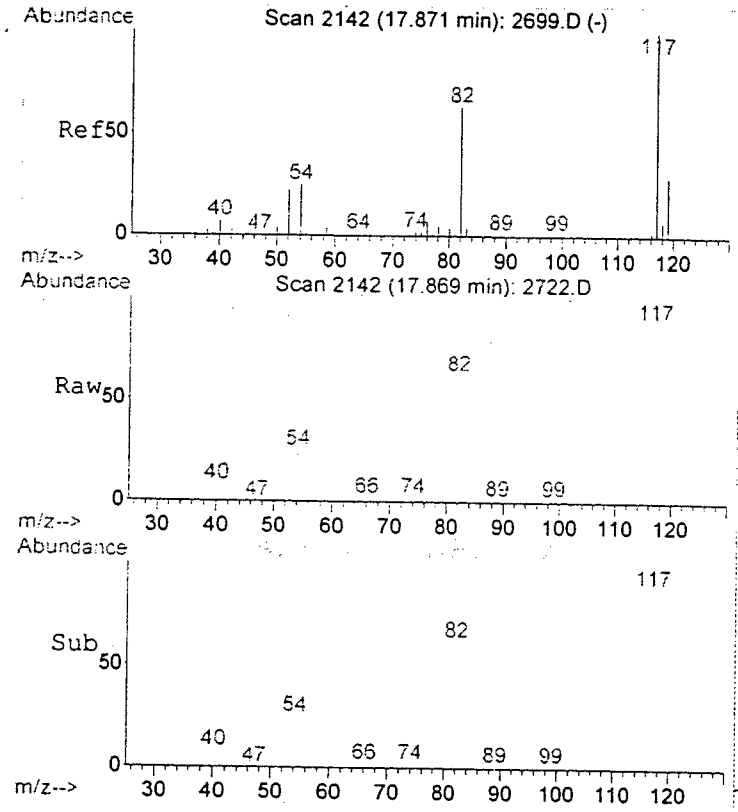
Tgt Ion: 98 Resp: 321441

Ion	Ratio	Lower	Upper
98	100		
100	66.2	54.2	81.2





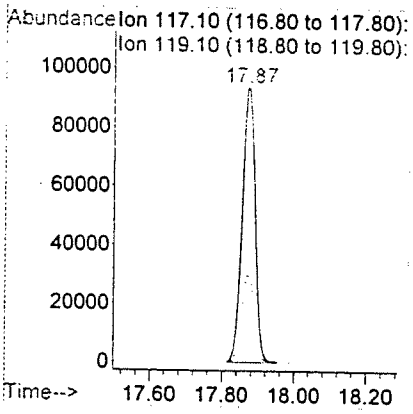
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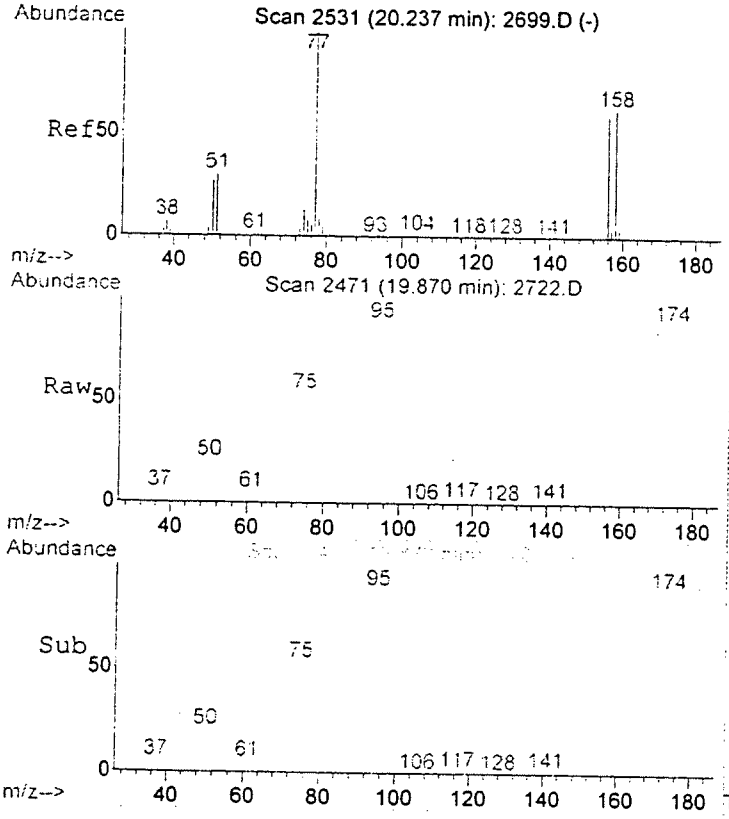


#54
Chlorobenzene-d5
Concen: 50.00 ug/l m
RT: 17.87 min Scan# 2142
Delta R.T. -0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion:117 Resp: 230251

Ion	Ratio	Lower	Upper
117	100		
119	32.3	25.9	38.9

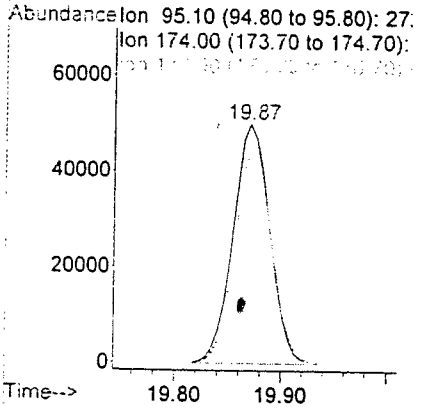




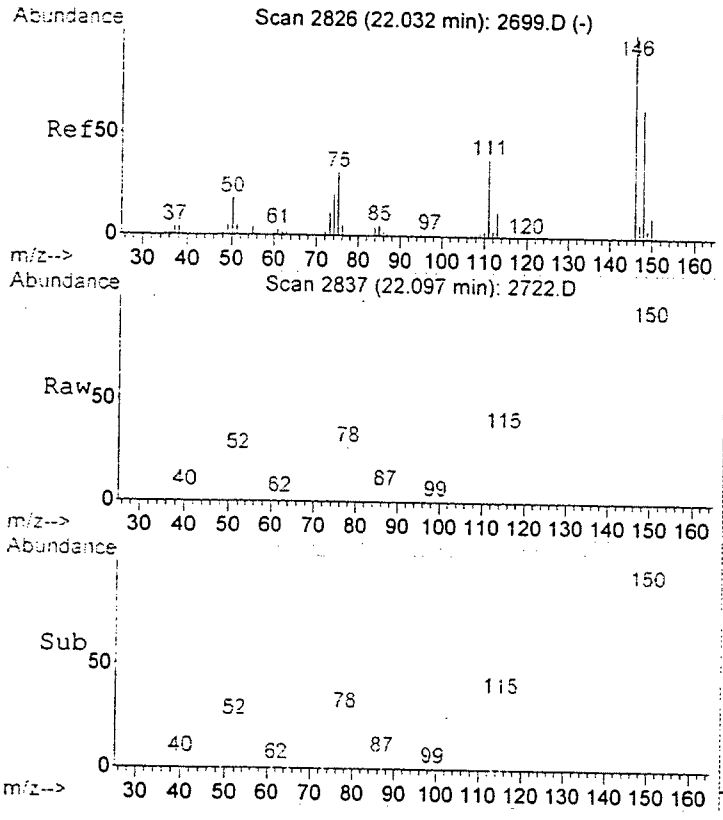
#65
Bromofluorobenzene
Concen: 46.58 ug/l
RT: 19.87 min Scan# 2471
Delta R.T. -0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion: 95 Resp: 120004

Ion	Ratio	Lower	Upper
95	100		
174	91.5	63.3	94.9
176	88.6	62.9	94.3

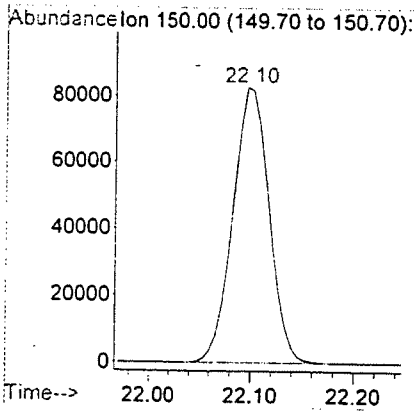


000031



#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2837
Delta R.T. -0.00 min
Lab File: 2722.D
Acq: 24 Aug 1999 3:12 pm

Tgt Ion:150 Resp: 200549



000032

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2706.D
Acq On : 23 Aug 1999 10:32 pm
Sample : ~~9908-219-05 IB~~ 9908-219-01 1:100 mjs
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 23 23:02 1999

Vial: 9
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	97385	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	159063	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	164344	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	154152	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	54450	68.29	ug/l	0.00
Spiked Amount 50.000			Recovery = 136.58%			
46) Toluene-d8	15.59	98	206754	55.32	ug/l	0.00
Spiked Amount 50.000			Recovery = 110.64%			
65) Bromofluorobenzene	19.87	95	91002	48.68	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.36%			
Target Compounds						Qvalue
5) Bromomethane	12.92	94	10753	59.37	ug/l #	2
7) 3-Chloro-1-Propene	9.19	41	1933	2.26	ug/l #	73
9) ACROLEIN	7.85	43	457	1.67	ug/l #	44
10) Acetone	7.85	43	457	1.67	ug/l #	44
15) Methylene Chloride	8.67	49	981	0.89	ug/l #	55
16) Carbon Disulfide	15.59	76	2385	1.69	ug/l #	1
20) Vinyl Acetate	10.50	43	1122	0.78	ug/l #	70
21) 2-Butanone	10.50	43	1122	2.14	ug/l #	29
22) 2-Propenenitrile-2-methyl	10.50	41	562	0.95	ug/l #	24
30) 1-Chlorobutane	11.68	56	1600	1.02	ug/l #	24
37) 1,2-Dichloropropane	13.46	63	778	0.77	ug/l #	80
45) 1,1,2-Trichloroethane	15.61	97	6070	7.30	ug/l #	11
47) Toluene	15.71	91	2684	0.69	ug/l	98
48) 1,3-Dichloropropane	15.59	76	2385	1.45	ug/l #	4
49) 2-Hexanone	15.59	43	816	1.15	ug/l #	1
62) 1,2,3-Trichloropropane	19.87	75	47499	29.15	ug/l #	50
81) unk3	22.10	152	98068	54.95	ug/l #	1

000033

(#) = qualifier out of range (m) = manual integration
2706.D TEST1.M Mon Aug 23 23:02:52 1999

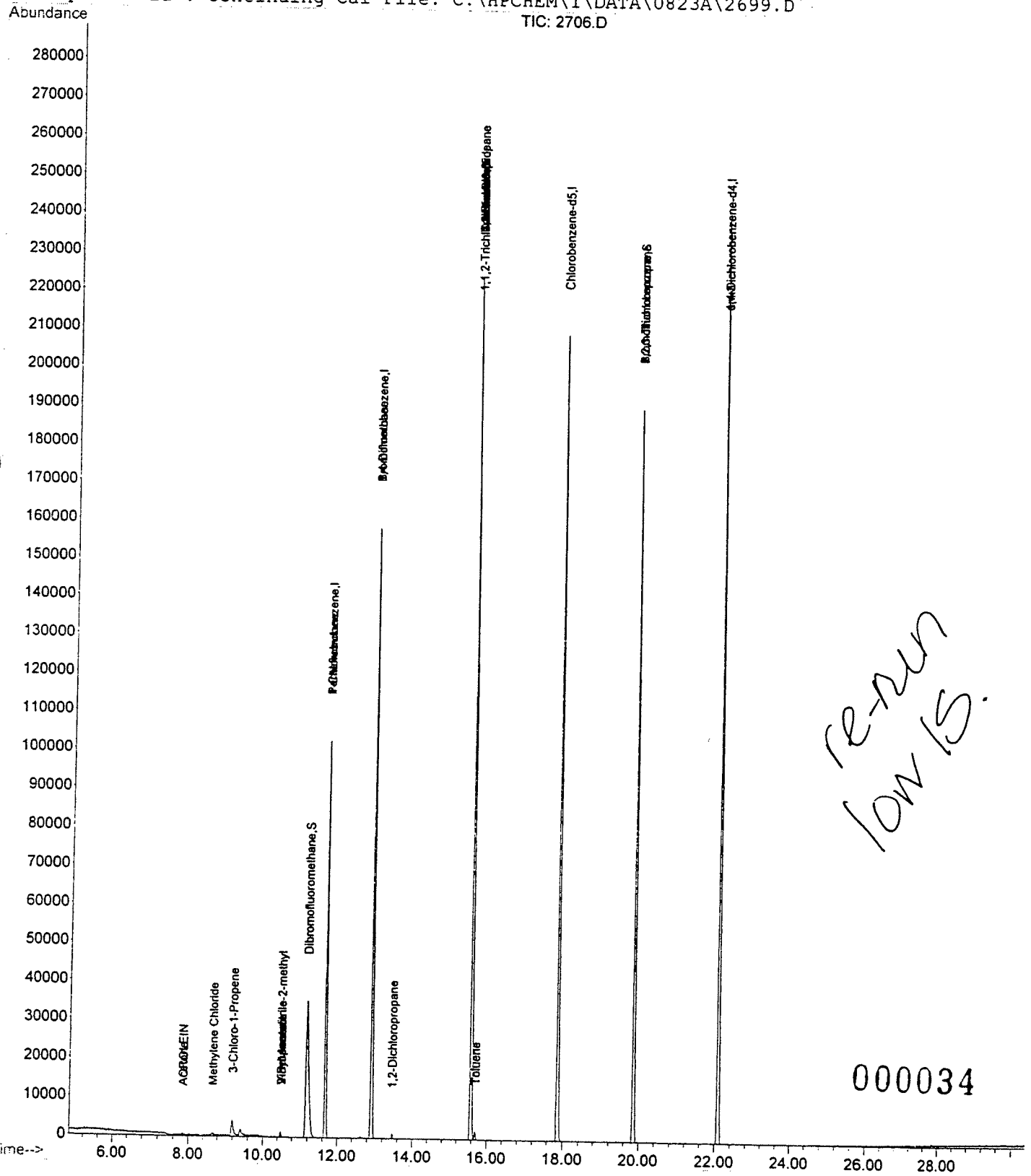
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0823A\2706.D
Acq On : 23 Aug 1999 10:32 pm
Sample : ~~9908-219-05 TB~~ 9908-219-01 1:100
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 23 23:02 1999

Vial: 9
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



re-run low IS.

000034

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-03

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2724

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100.0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 50.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	500	U
74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-00-3	Chloroethane	500	U
75-01-2	Trichloroflouromethane	500	U
75-00-3	Acrolein	500	U
75-35-4	1,1-Dichloroethylene	250	U
67-64-1	Iodomethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	250	U
75-09-2	Methylene Chloride	250	U
67-64-1	Acrylonitrile	500	U
156-60-5	t-1,2-Dichloroethene	250	U
156-60-5	2,2-Dichloropropane	250	U
75-34-4	1,1-Dichloroethane	250	U
67-66-3	Vinyl Acetate	500	U
78-93-3	2-Butanone	500	U
	cis-1,3-Dichloroethylene	250	U
67-66-3	Chloroform	250	U
75-27-4	Bromochloromethane	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon Tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
124-48-1	Dibromomethane	250	U
108-10-1	4-Methyl-2-Pentanone	500	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U

000035

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-03

Lab Name: SCILAB GROUP OF ALBANY Contract:

Project No.: Site: Location: Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2724

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
121-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
127-18-4	1,2-Dibromomethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
	1,3,5-Trimethylbenzene	250	U
	Xylene (total)	250	U
79-34-5	1,1,1,2-Tetrachloroethane	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
79-34-5	1,3-Dichlorobenzene	250	U
79-34-5	1,4-Dichlorobenzene	250	U
79-34-5	1,2-Dichlorobenzene	250	U
79-34-5	1,2-Dibromo-3-Chloropropane	500	U

000036

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0824\2724.D
Acq On : 24 Aug 1999 4:55 pm
Sample : 9908-219-02 1:50 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 14:10 1999

Vial: 10
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	175142	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	248476	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	225027	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	193929	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	71290	45.86	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.72%			
46) Toluene-d8	15.59	98	314643	50.26	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.52%			
65) Bromofluorobenzene	19.87	95	115461	45.86	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.72%			

Target Compounds Qvalue

000037

(#) = qualifier out of range (m) = manual integration

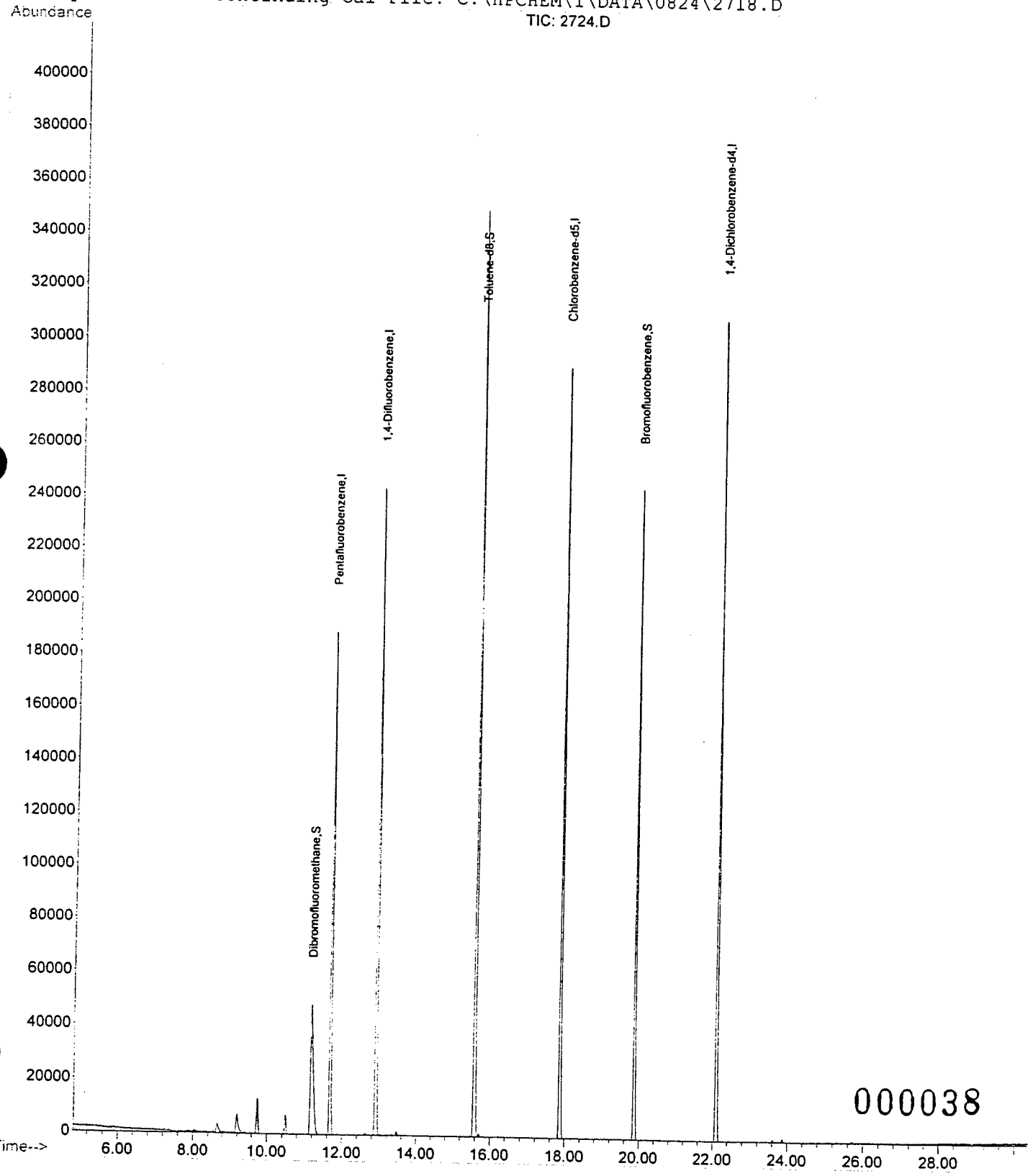
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0824\2724.D
Acq On : 24 Aug 1999 4:55 pm
Sample : 9908-219-02 1:50 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 14:10 1999

Vial: 10
Operator:
Inst : GC/MS F
Multiplr: 1.00

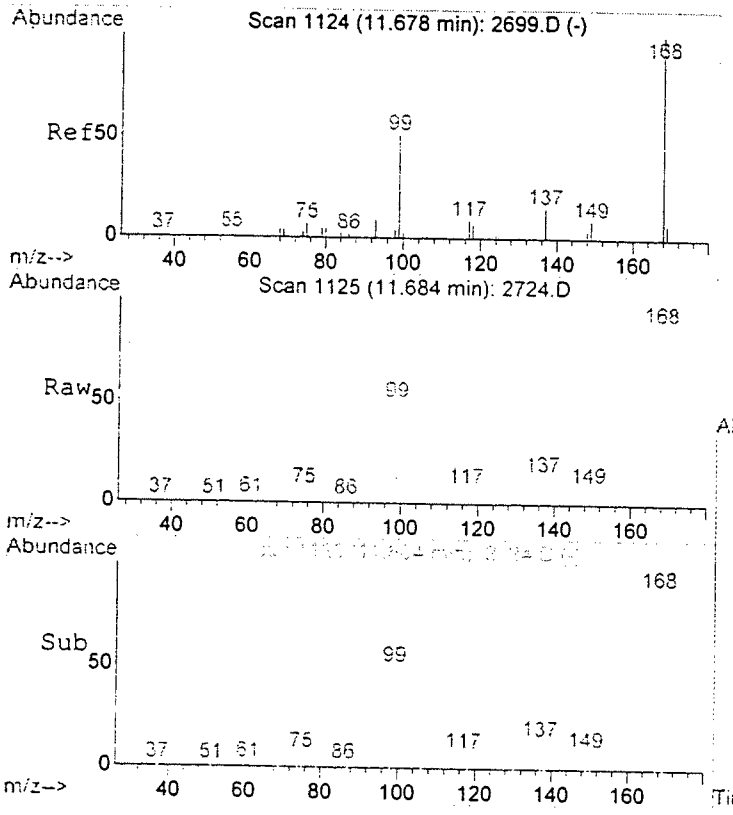
Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\8260S.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 05 16:09:30 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



000038

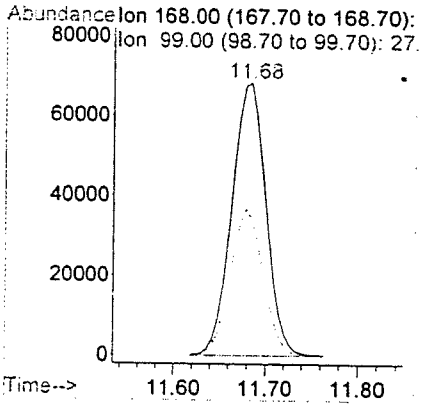
2724.D 8260S.M Tue Oct 05 16:40:06 1999

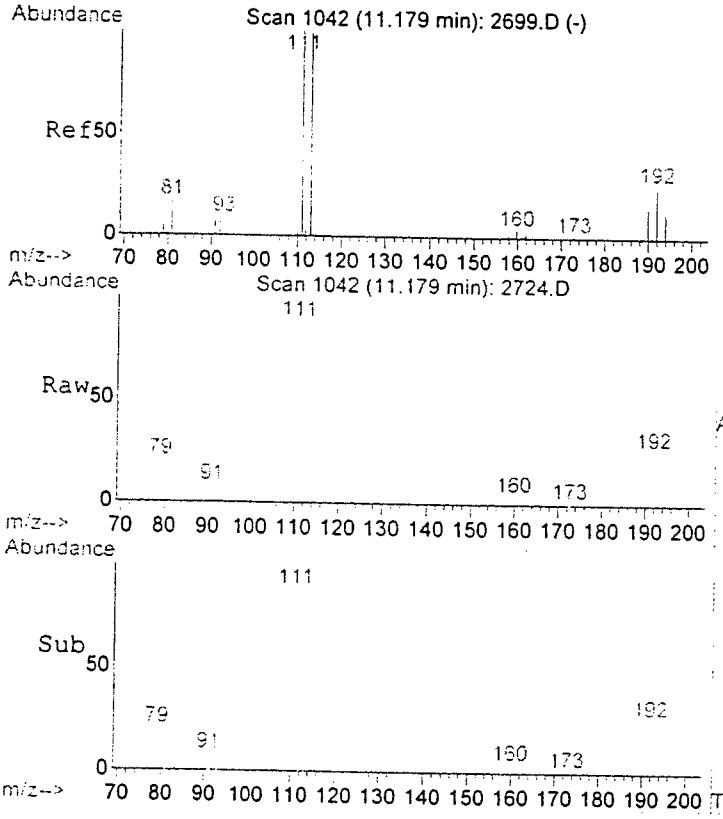


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1125
Delta R.T. 0.00 min
Lab File: 2724.D
Acq: 24 Aug 1999 4:55 pm

Tgt Ion:168 Resp: 175142

Ion	Ratio	Lower	Upper
168	100		
99	52.3	44.1	66.1

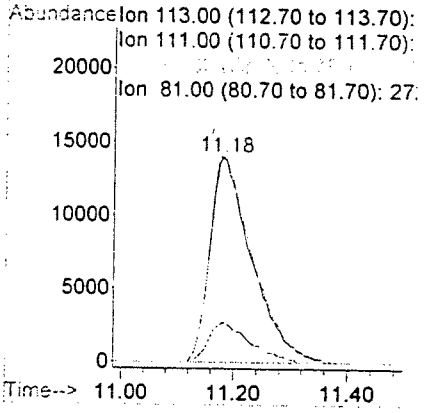




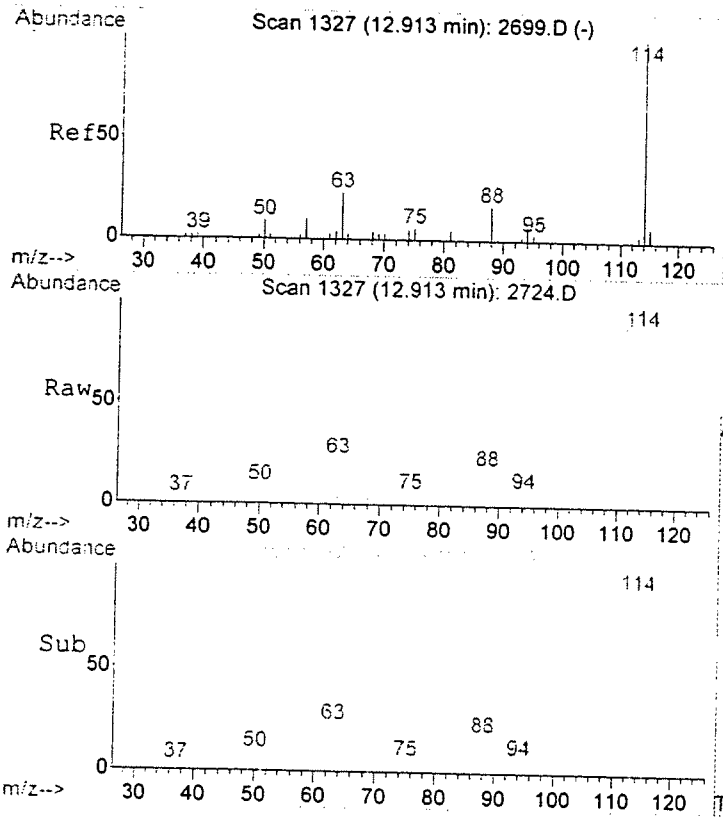
#27
Dibromofluoromethane
Concen: 45.86 ug/l
RT: 11.18 min Scan# 1042
Delta R.T. -0.00 min
Lab File: 2724.D
Acq: 24 Aug 1999 4:55 pm

Tgt Ion:113 Resp: 71290

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.0	121.6
79	19.3	15.4	23.0
81	19.2	14.4	21.6

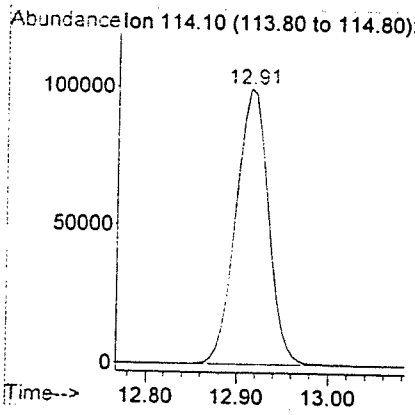


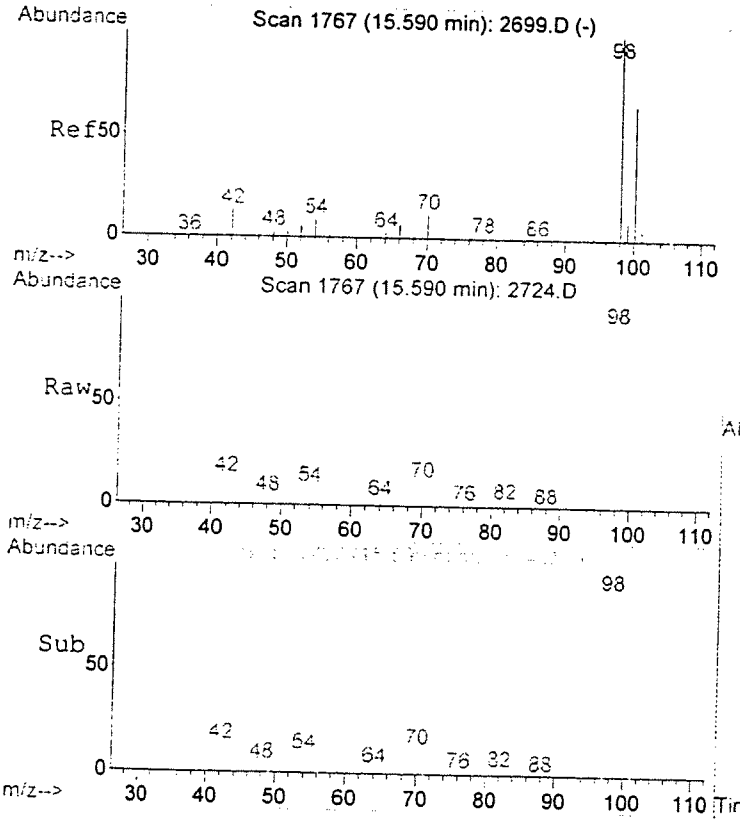
000039



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 2724.D
Acq: 24 Aug 1999 4:55 pm

Tgt Ion:114 Resp: 248476

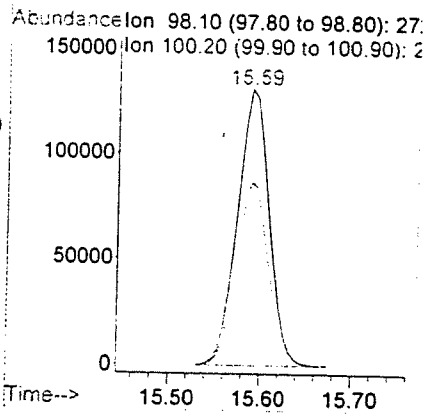




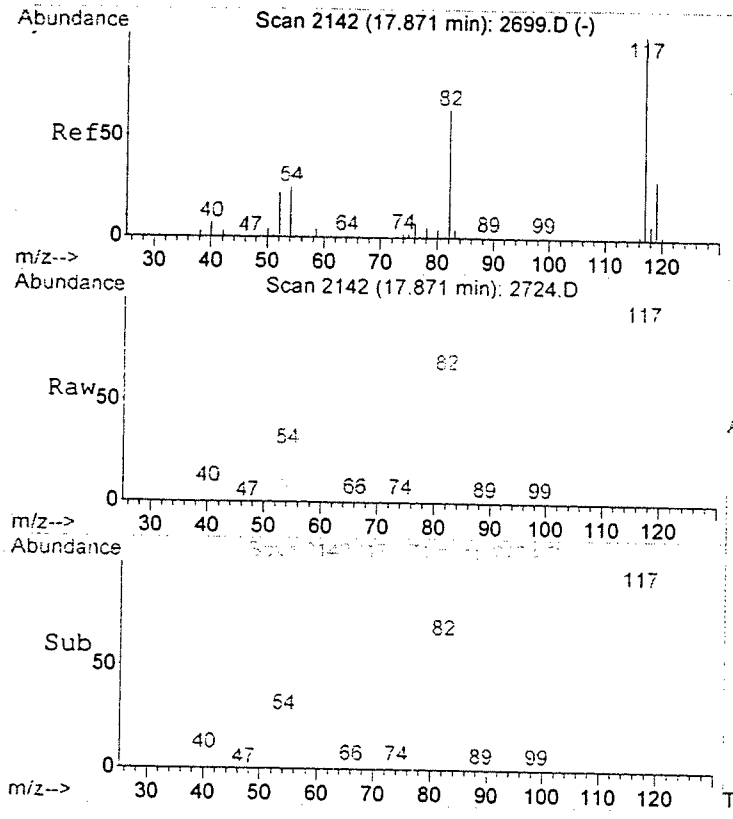
#46
Toluene-d8
Concen: 50.26 ug/l
RT: 15.59 min Scan# 1767
Delta R.T. -0.00 min
Lab File: 2724.D
Acq: 24 Aug 1999 4:55 pm

Tgt Ion: 98 Resp: 314643

Ion	Ratio	Lower	Upper
98	100		
100	66.2	54.2	81.2



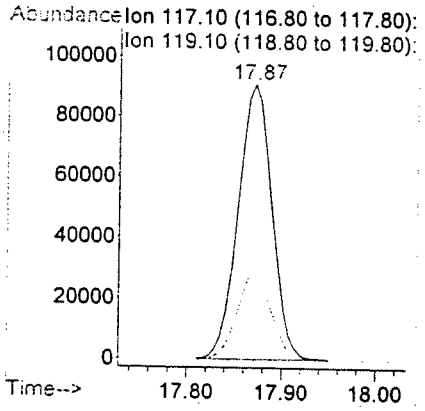
000040

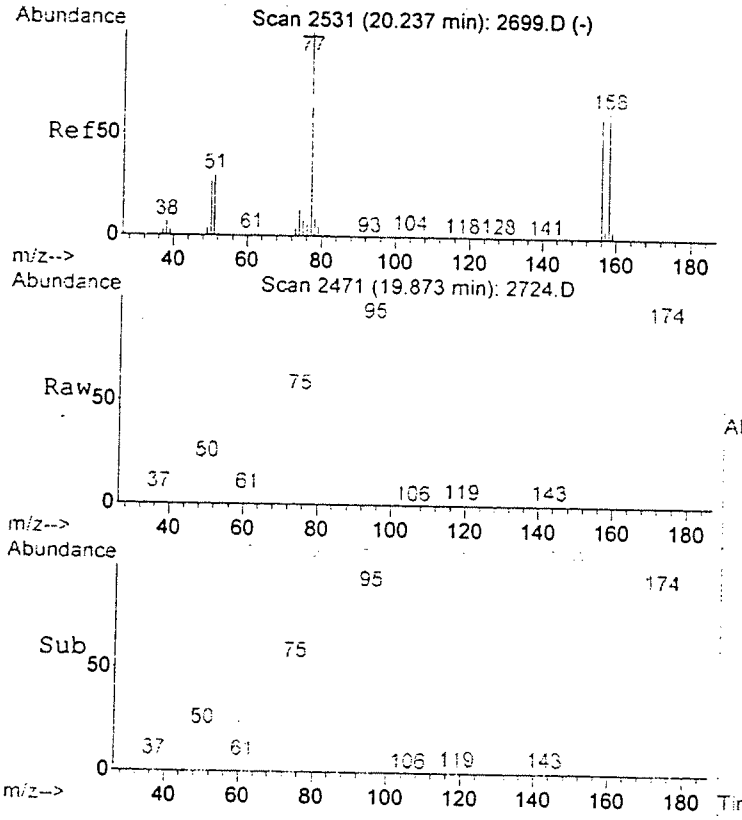


#54
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 17.87 min Scan# 2142
Delta R.T. -0.00 min
Lab File: 2724.D
Acq: 24 Aug 1999 4:55 pm

Tgt Ion:117 Resp: 225027

Ion	Ratio	Lower	Upper
117	100		
119	32.1	25.9	38.9

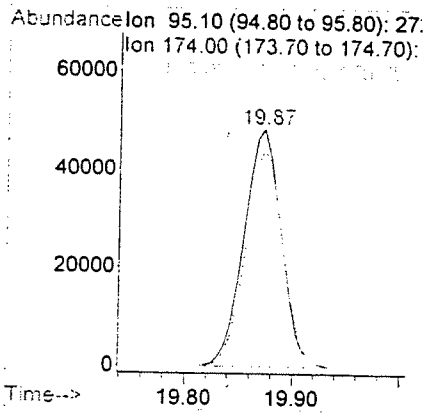




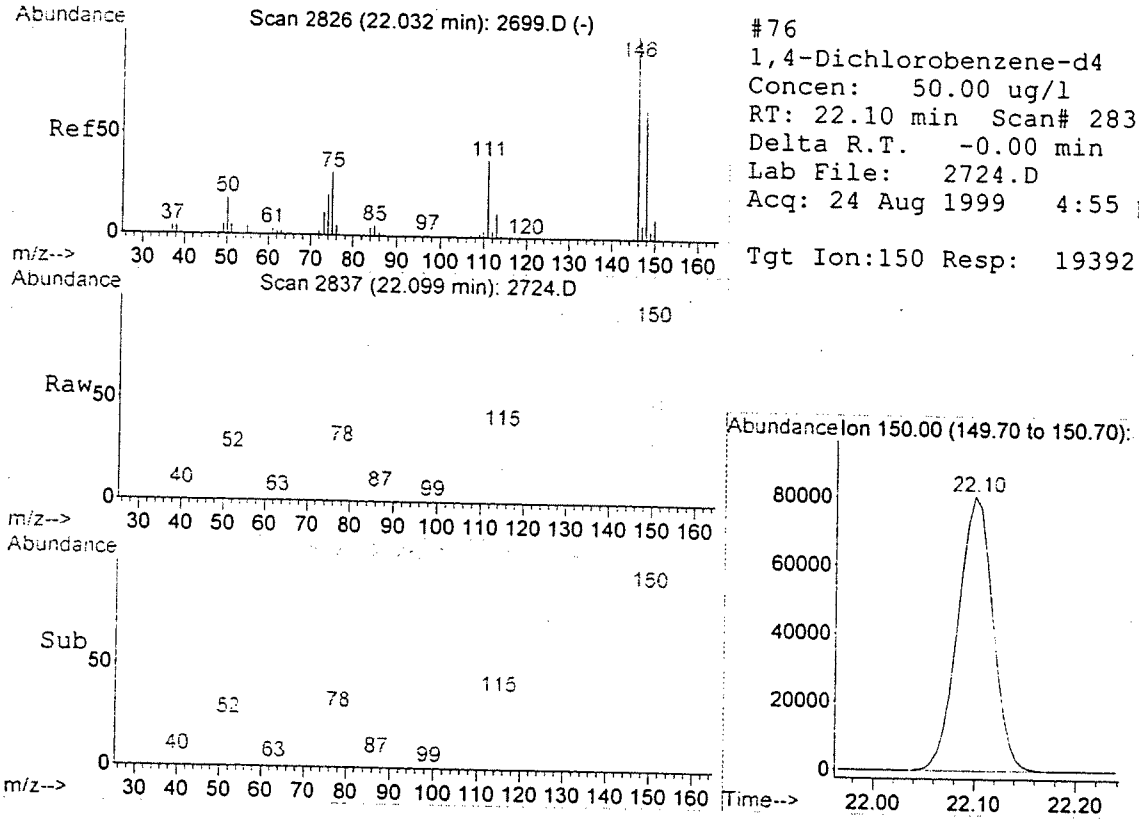
#65
Bromofluorobenzene
Concen: 45.86 ug/l
RT: 19.87 min Scan# 2471
Delta R.T. -0.00 min
Lab File: 2724.D
Acq: 24 Aug 1999 4:55 pm

Tgt Ion: 95 Resp: 115461

Ion	Ratio	Lower	Upper
95	100		
174	91.8	63.3	94.9
176	88.6	62.9	94.3



000041



#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2837
Delta R.T. -0.00 min
Lab File: 2724.D
Acq: 24 Aug 1999 4:55 pm

Tgt Ion:150 Resp: 193929

000042

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2708.D Vial: 11
Acq On : 23 Aug 1999 11:49 pm Operator:
Sample : 9908-219-06 MS Inst : GC/MS F
Misc : 9908-219-02 1:50 MS Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 24 0:19 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Pentafluorobenzene	11.68	168	54403	50.00	ug/l	0.00	
35) 1,4-Difluorobenzene	12.92	114	103011	50.00	ug/l	0.00	
54) Chlorobenzene-d5	17.87	117	119797	50.00	ug/l	0.00	LOW
76) 1,4-Dichlorobenzene-d4	22.10	150	119263	50.00	ug/l	0.00	
System Monitoring Compounds							
27) Dibromofluoromethane	11.18	113	42084	94.48	ug/l	0.00	
Spiked Amount 50.000			Recovery =	188.96%			HIGH
46) Toluene-d8	15.59	98	134377	55.52	ug/l	0.00	
Spiked Amount 50.000			Recovery =	111.04%			
65) Bromofluorobenzene	19.87	95	69345	50.89	ug/l	0.00	
Spiked Amount 50.000			Recovery =	101.78%			
Target Compounds						Qvalue	
5) Bromomethane	12.92	94	6719	66.40	ug/l	# 1	
7) 3-Chloro-1-Propene	9.20	41	871	1.82	ug/l	# 69	
9) ACROLEIN	7.85	43	1617	10.55	ug/l	# 76	
10) Acetone	7.85	43	1617	10.55	ug/l	# 76	
15) Methylene Chloride	8.68	49	845	1.38	ug/l	# 54	
16) Carbon Disulfide	15.59	76	1547	1.97	ug/l	# 17	
18) MTBE	9.74	73	19189	15.07	ug/l	96	
20) Vinyl Acetate	10.34	43	615	0.77	ug/l	# 70	
21) 2-Butanone	10.49	43	1195	4.09	ug/l	# 43	
22) 2-Propenenitrile-2-methyl	10.49	41	410	1.24	ug/l	# 24	
25) Chloroform	11.01	83	2375	2.84	ug/l	# 64	
45) 1,1,2-Trichloroethane	15.61	97	3996	7.42	ug/l	# 11	
48) 1,3-Dichloropropane	15.59	76	1547	1.45	ug/l	# 14	
52) Tetrachloroethene	16.85	166	922	1.38	ug/l	# 81	
62) 1,2,3-Trichloropropane	19.87	75	36186	30.47	ug/l	# 50	
81) unk3	22.10	152	75695	54.82	ug/l	# 1	

000043

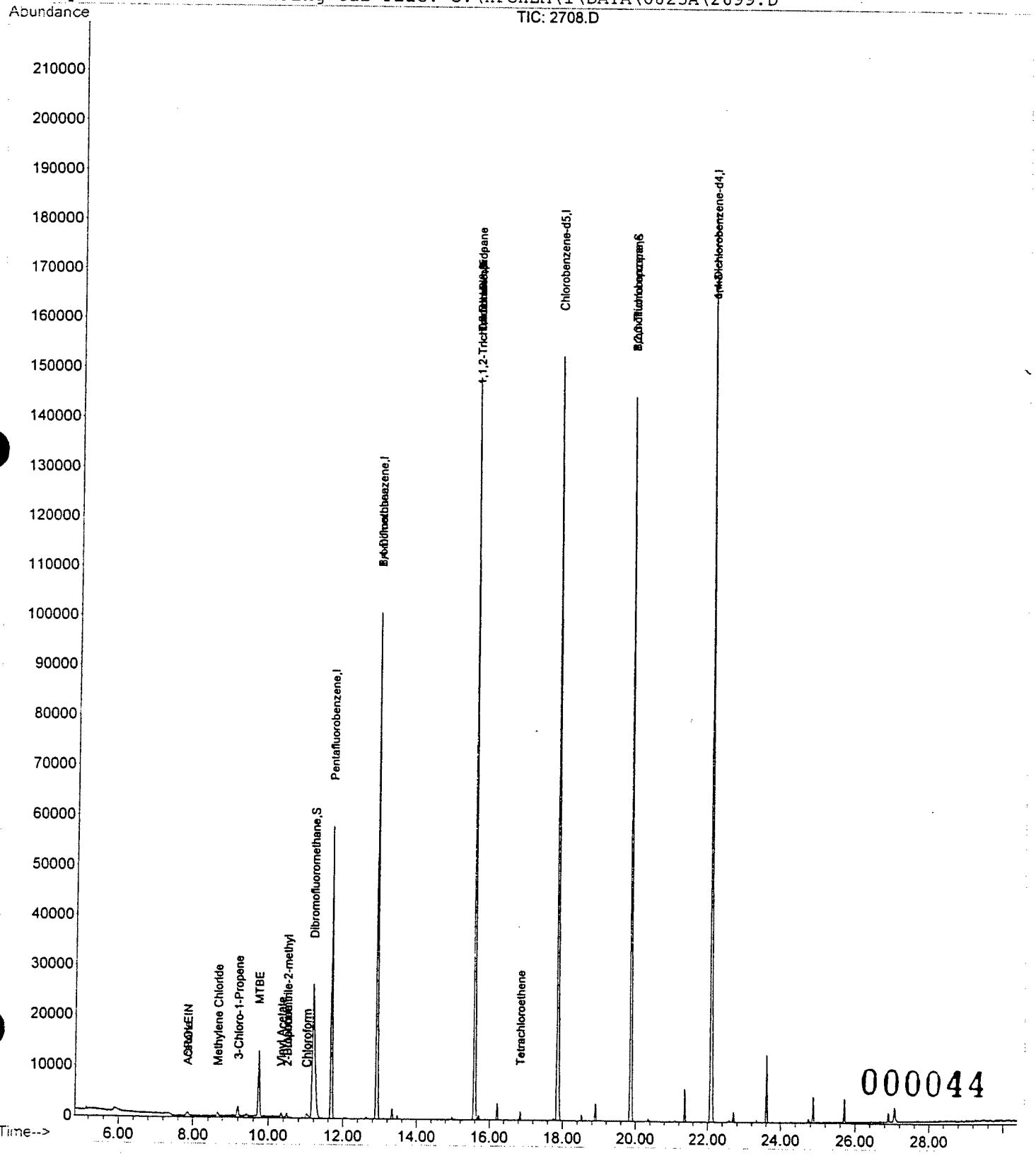
(#) = qualifier out of range (m) = manual integration
2708.D TEST1.M Tue Aug 24 00:20:01 1999

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0823A\2708.D
Acq On : 23 Aug 1999 11:49 pm
Sample : ~~9908-219-06 MS~~ 9908-219-02 1.50 MJS
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 0:19 1999

Vial: 11
Operator:
Inst : GC/MS F
Multiplr: 1.00
Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



000044

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-04 B

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-03

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2725

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100.0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (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
75-01-4	Vinyl Chloride	10	U
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-01-2	Trichloroflouromethane	10	U
75-00-3	Acrolein	10	U
75-35-4	1,1-Dichloroethylene	5	U
67-64-1	Iodomethane	5	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acrylonitrile	10	U
156-60-5	t-1,2-Dichloroethene	5	U
156-60-5	2,2-Dichloropropane	5	U
75-34-4	1,1-Dichloroethane	5	U
67-66-3	Vinyl Acetate	10	U
78-93-3	2-Butanone	10	U
	cis-1,3-Dichloroethylene	5	U
67-66-3	Chloroform	5	U
75-27-4	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
124-48-1	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	110	

000045

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: GW-04 B

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-03

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2725

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
121-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5	U
127-18-4	1,2-Dibromomethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
	1,3,5-Trimethylbenzene	5	U
	Xylene (total)	5	U
79-34-5	1,1,1,2-Tetrachloroethane	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
79-34-5	1,3-Dichlorobenzene	5	U
79-34-5	1,4-Dichlorobenzene	5	U
79-34-5	1,2-Dichlorobenzene	5	U
79-34-5	1,2-Dibromo-3-Chloropropane	10	U

000046

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0824\2725.D
Acq On : 24 Aug 1999 5:33 pm
Sample : 9908-219-03 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 14:13 1999

Vial: 11
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	122010	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	186743	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	182535	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	167086	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.19	113	59041	54.51	ug/l	0.00
Spiked Amount 50.000			Recovery = 109.02%			
46) Toluene-d8	15.59	98	237976	50.58	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.16%			
65) Bromofluorobenzene	19.87	95	97833	47.90	ug/l	0.00
Spiked Amount 50.000			Recovery = 95.80%			
Target Compounds						Qvalue
10) Acetone	7.85	43	1988	5.36	ug/l	98
52) Tetrachloroethene	16.85	166	143181	106.42	ug/l	100

000047

(#) = qualifier out of range (m) = manual integration
2725.D 8260S.M Tue Oct 05 16:40:40 1999

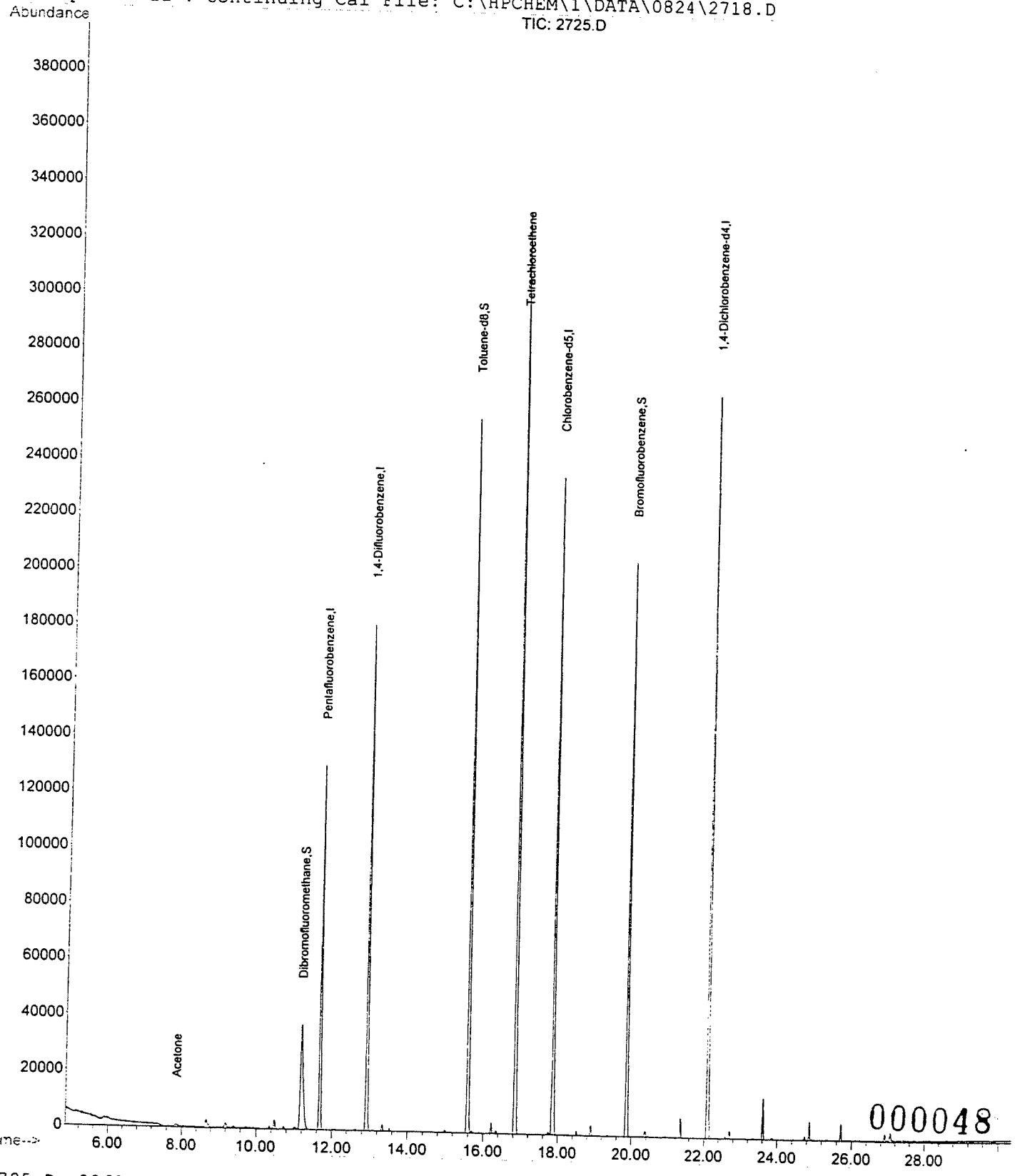
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0824\2725.D
Acq On : 24 Aug 1999 5:33 pm
Sample : 9908-219-03 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 14:13 1999

Vial: 11
Operator:
Inst : GC/MS F
Multiplr: 1.00

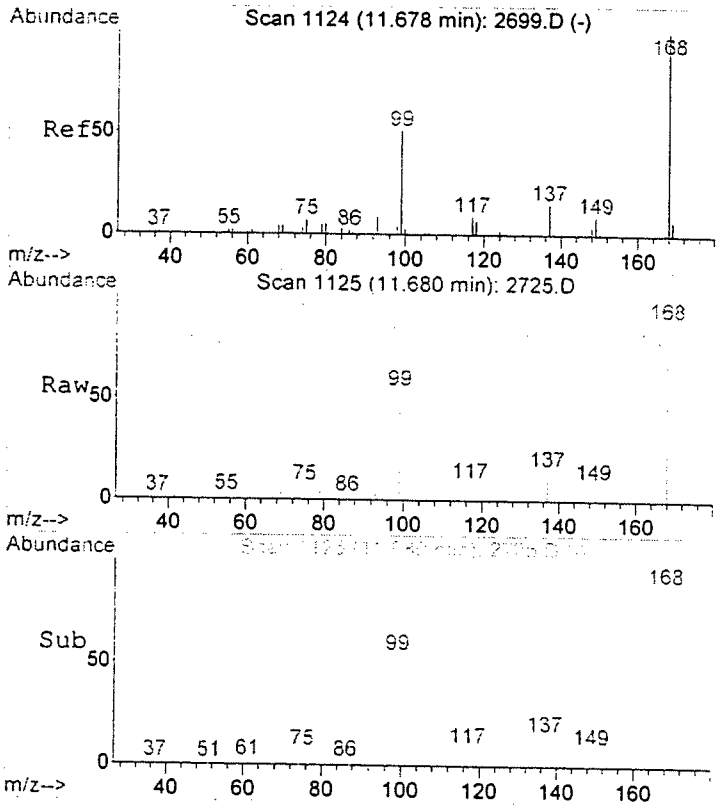
Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\8260S.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 05 16:09:30 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



000048

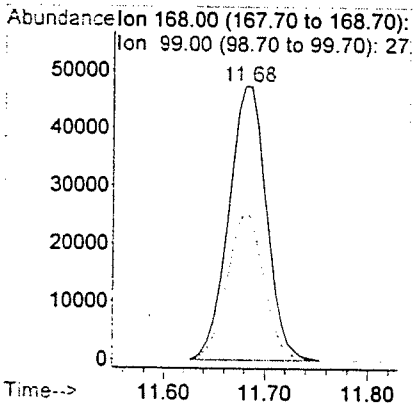
2725.D 8260S.M Tue Oct 05 16:40:43 1999

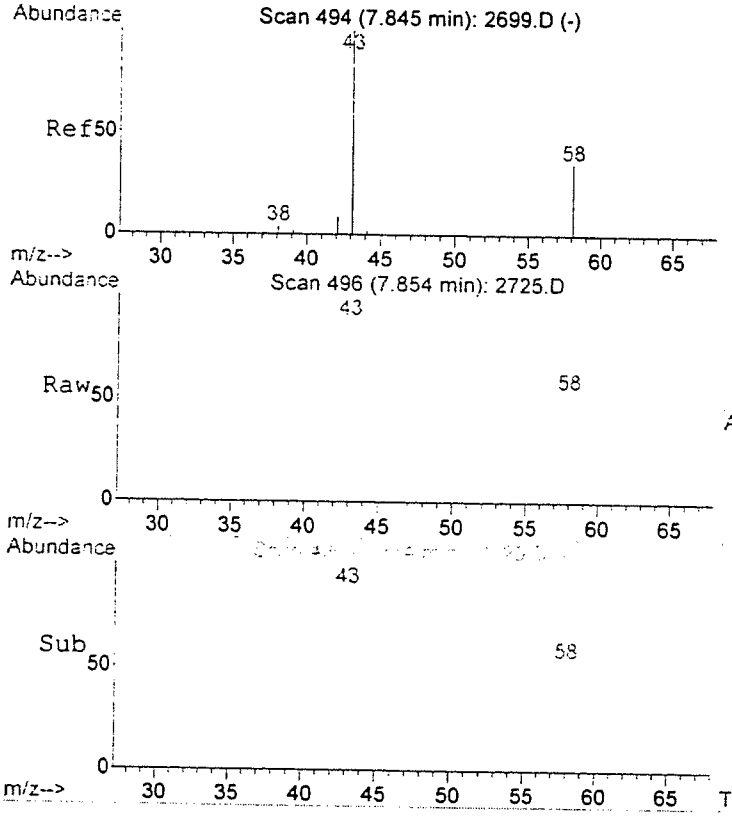


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1125
Delta R.T. -0.00 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion:168 Resp: 122010

Ion	Ratio	Lower	Upper
168	100		
99	52.5	44.1	66.1

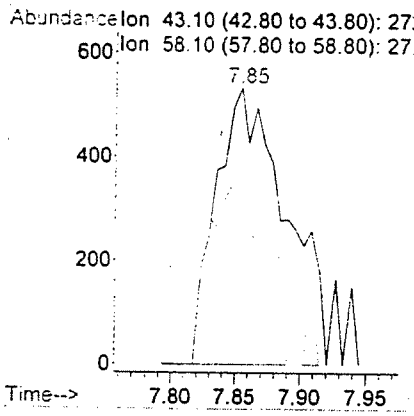




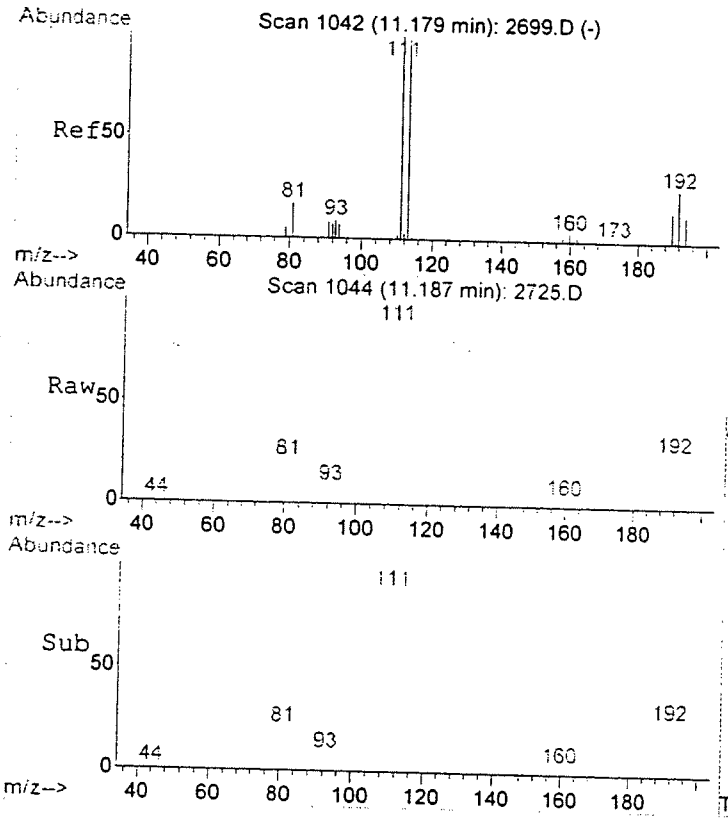
#10
Acetone
Concen: 5.36 ug/l
RT: 7.85 min Scan# 496
Delta R.T. 0.01 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion: 43 Resp: 1988

Ion	Ratio	Lower	Upper
43	100		
58	32.0	24.7	37.1



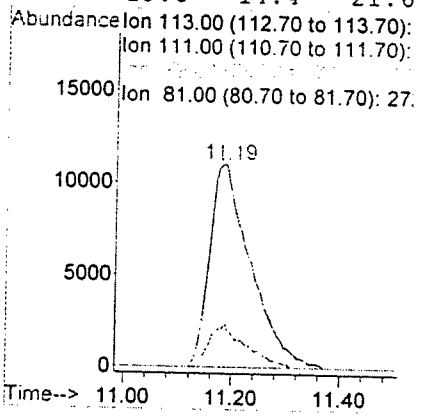
000049

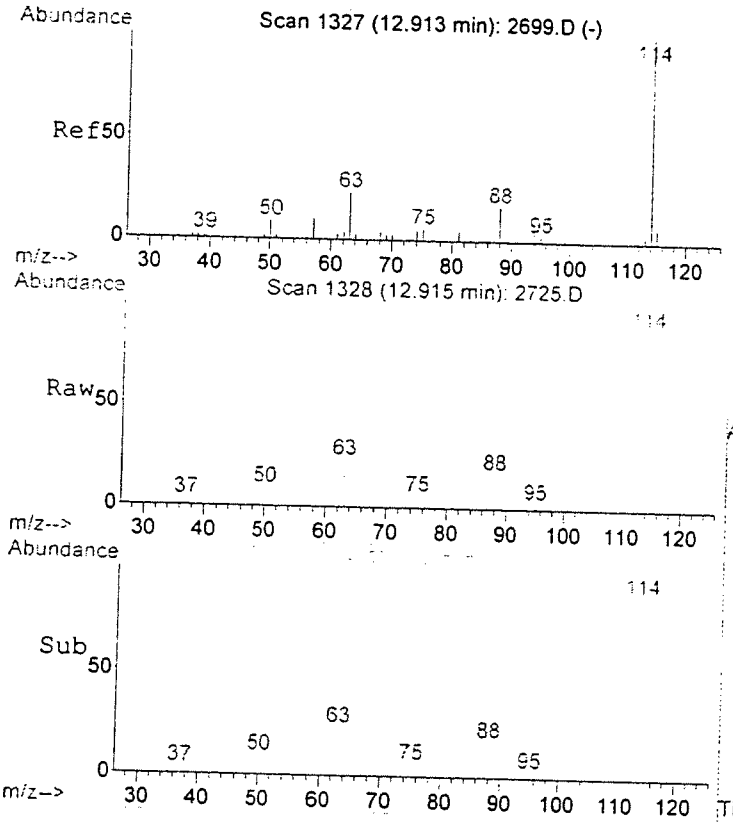


#27
Dibromofluoromethane
Concen: 54.51 ug/l
RT: 11.19 min Scan# 1044
Delta R.T. 0.01 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion:113 Resp: 59041

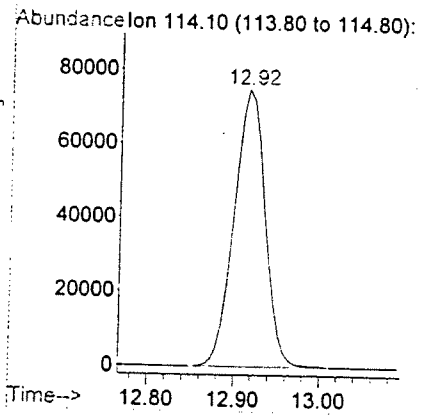
Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.0	121.6
79	19.2	15.4	23.0
81	19.0	14.4	21.6



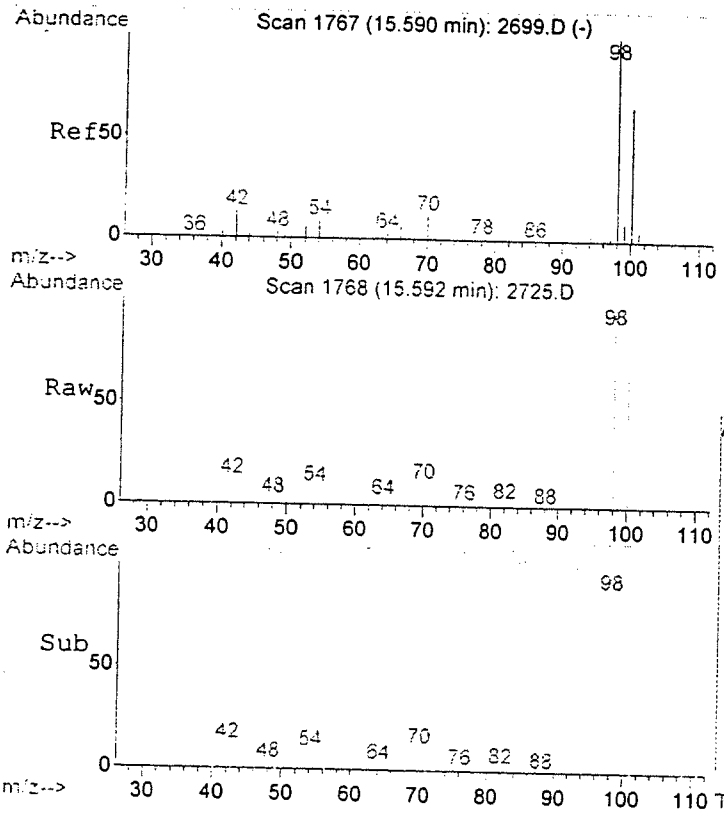


#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.92 min Scan# 1328
Delta R.T. -0.00 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion:114 Resp: 186743



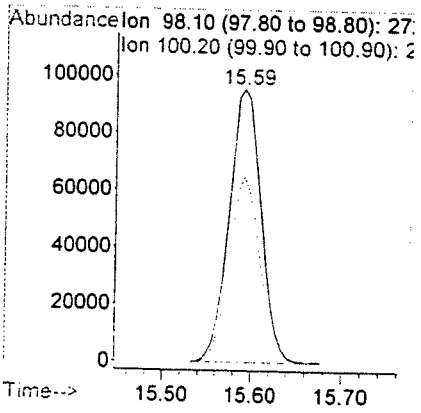
000050

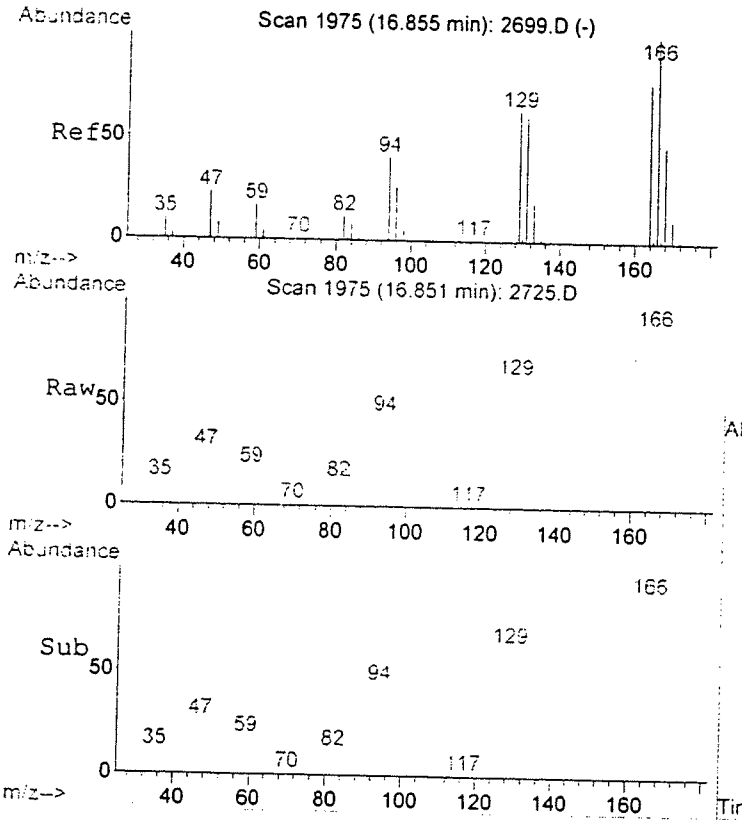


#46
Toluene-d8
Concen: 50.58 ug/l
RT: 15.59 min Scan# 1768
Delta R.T. -0.00 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion: 98 Resp: 237976

Ion	Ratio	Lower	Upper
98	100		
100	65.5	54.2	81.2

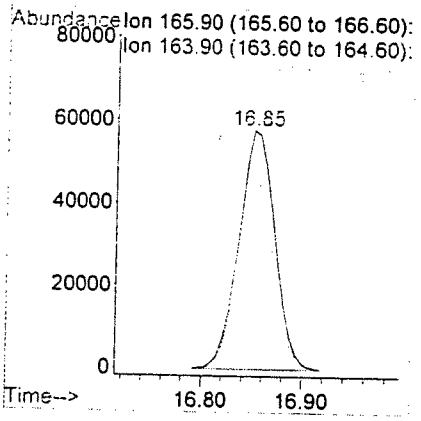




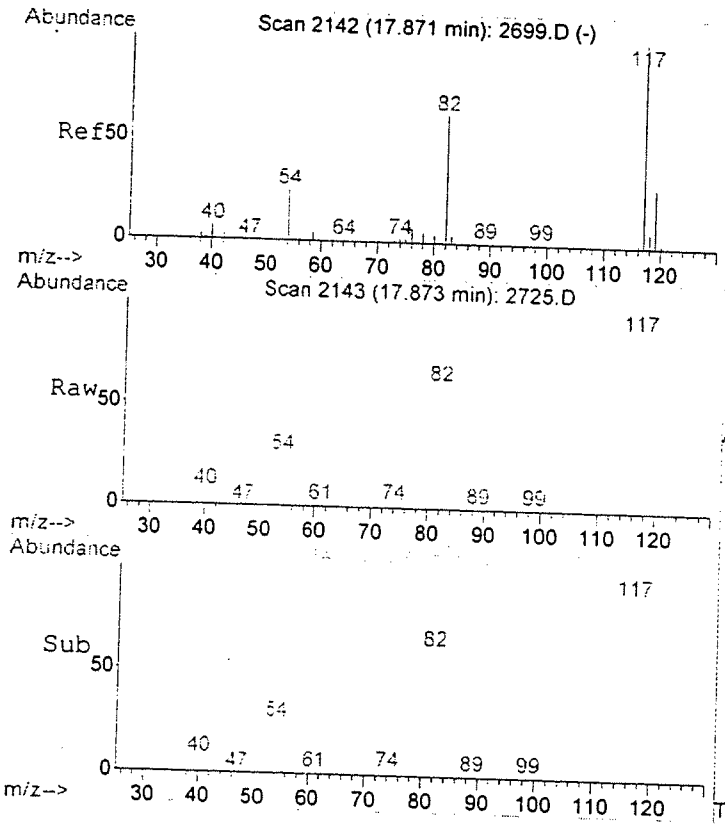
#52
Tetrachloroethene
Concen: 106.42 ug/l
RT: 16.85 min Scan# 1975
Delta R.T. -0.01 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion:166 Resp: 143181

Ion	Ratio	Lower	Upper
166	100		
164	78.6	62.6	93.8
168	47.9	38.2	57.4



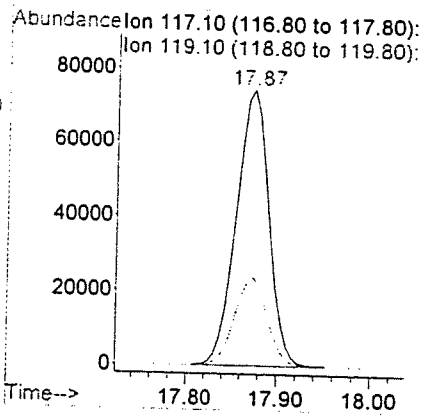
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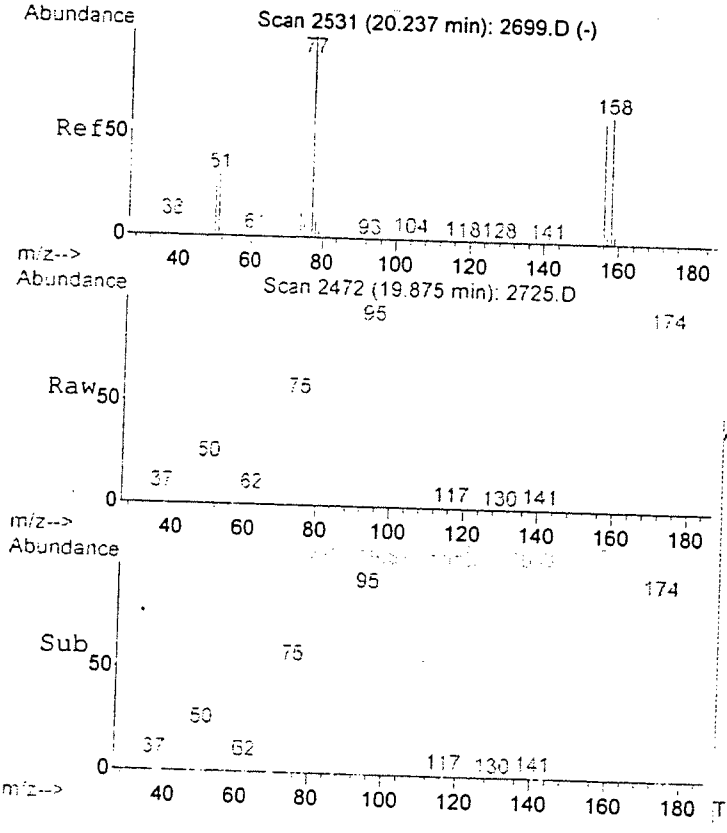


#54
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 17.87 min Scan# 2143
Delta R.T. -0.00 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion:117 Resp: 182535

Ion	Ratio	Lower	Upper
117	100		
119	32.1	25.9	38.9

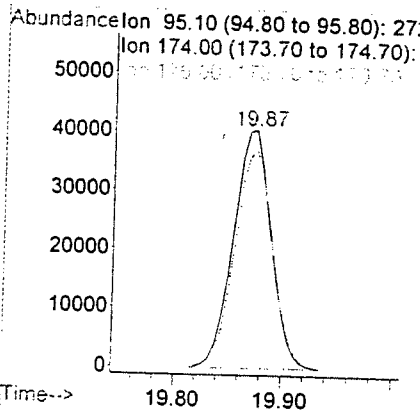




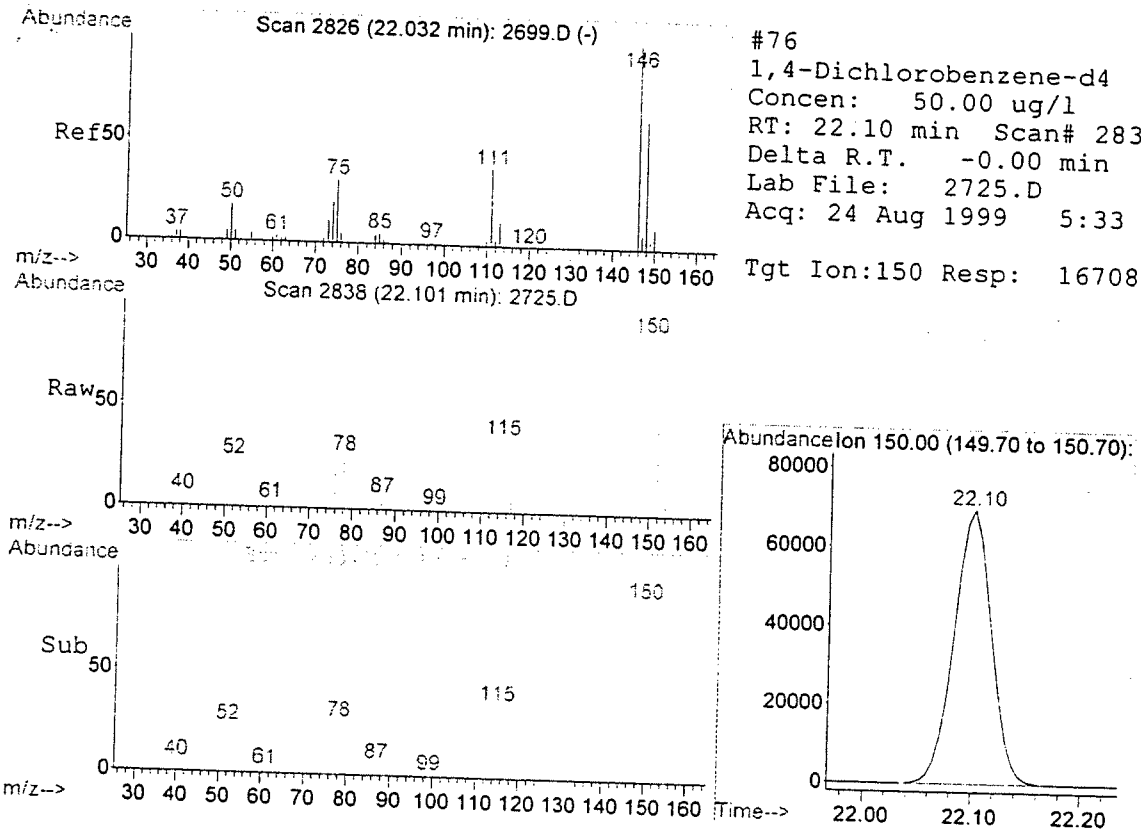
#65
Bromofluorobenzene
Concen: 47.90 ug/l
RT: 19.87 min Scan# 2472
Delta R.T. -0.00 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion: 95 Resp: 97833

Ion	Ratio	Lower	Upper
95	100		
174	91.9	63.3	94.9
176	89.0	62.9	94.3



000052



#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2838
Delta R.T. -0.00 min
Lab File: 2725.D
Acq: 24 Aug 1999 5:33 pm

Tgt Ion:150 Resp: 167086

000053

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2709.D
Acq On : 24 Aug 1999 12:27 am
Sample : ~~9908-219-06-MSD~~ 9908-219-03 NJS
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 0:58 1999

Vial: 12
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	185602	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	267227	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	243190	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	207861	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	73855	48.60	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.20%			
46) Toluene-d8	15.59	98	318894	50.79	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.58%			
65) Bromofluorobenzene	19.87	95	124681	45.08	ug/l	0.00
Spiked Amount 50.000			Recovery = 90.16%			
Target Compounds						Qvalue
5) Bromomethane	12.92	94	17927	51.93	ug/l #	4
9) ACROLEIN	7.85	43	2862	5.47	ug/l	95
10) Acetone	7.85	43	2862	5.47	ug/l	95
15) Methylene Chloride	8.67	49	3238	1.85	ug/l #	58
16) Carbon Disulfide	15.59	76	3822	1.42	ug/l #	1
20) Vinyl Acetate	10.49	43	2265	0.83	ug/l #	89
21) 2-Butanone	10.49	43	2265	2.27	ug/l #	1
22) 2-Propenenitrile-2-methyl	10.49	41	2160	1.92	ug/l #	37
23) C-1,2-Dichloroethene	10.74	96	1637	1.03	ug/l #	86
25) Chloroform	11.01	83	1804	0.68	ug/l #	65
30) 1-Chlorobutane	11.68	56	3366	1.13	ug/l #	24
38) Trichloroethene	13.53	130	970	0.87	ug/l	95
45) 1,1,2-Trichloroethane	15.61	97	8934	6.39	ug/l #	13
48) 1,3-Dichloropropane	15.59	76	3822	1.38	ug/l #	17
49) 2-Hexanone	15.59	43	1445	1.21	ug/l #	1
52) Tetrachloroethene	16.85	166	261248	150.51	ug/l	100
62) 1,2,3-Trichloropropane	19.87	75	65329	27.10	ug/l #	50
81) unk3	22.10	152	133390	55.43	ug/l #	1

000054

(#) = qualifier out of range (m) = manual integration
2709.D TEST1.M Tue Aug 24 00:58:24 1999

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-05

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-04

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2723

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100.0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 50.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-01-4	Vinyl Chloride	500	U
74-87-3	Chloromethane	500	U
74-83-9	Bromomethane	500	U
75-00-3	Chloroethane	500	U
75-01-2	Trichloroflouromethane	500	U
75-00-3	Acrolein	500	U
75-35-4	1,1-Dichloroethylene	250	U
67-64-1	Iodomethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	250	U
75-09-2	Methylene Chloride	250	U
67-64-1	Acrylonitrile	500	U
156-60-5	t-1,2-Dichloroethene	250	U
156-60-5	2,2-Dichloropropane	250	U
75-34-4	1,1-Dichloroethane	250	U
67-66-3	Vinyl Acetate	500	U
78-93-3	2-Butanone	500	U
	cis-1,3-Dichloroethylene	250	U
67-66-3	Chloroform	250	U
75-27-4	Bromochloromethane	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon Tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
124-48-1	Dibromomethane	250	U
108-10-1	4-Methyl-2-Pentanone	500	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U

000056

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

GW-05

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-04

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2723

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
121-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
127-18-4	1,2-Dibromomethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
	1,3,5-Trimethylbenzene	250	U
	Xylene (total)	250	U
79-34-5	1,1,1,2-Tetrachloroethane	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
79-34-5	1,3-Dichlorobenzene	250	U
79-34-5	1,4-Dichlorobenzene	250	U
79-34-5	1,2-Dichlorobenzene	250	U
79-34-5	1,2-Dibromo-3-Chloropropane	500	U

000057

Data File : C:\HPCHEM\1\DATA\0824\2723.D
Acq On : 24 Aug 1999 4:17 pm
Sample : 9908-219-04 1:50 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 14:08 1999

Vial: 9
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	202240	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	260792	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	228020	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	196521	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.17	113	81176	45.22	ug/l	-0.01
Spiked Amount 50.000			Recovery = 90.44%			
46) Toluene-d8	15.59	98	318338	48.45	ug/l	0.00
Spiked Amount 50.000			Recovery = 96.90%			
65) Bromofluorobenzene	19.87	95	115203	45.16	ug/l	0.00
Spiked Amount 50.000			Recovery = 90.32%			

Target Compounds

Qvalue

000058

(#) = qualifier out of range (m) = manual integration
2723.D 8260S.M Tue Oct 05 16:39:12 1999

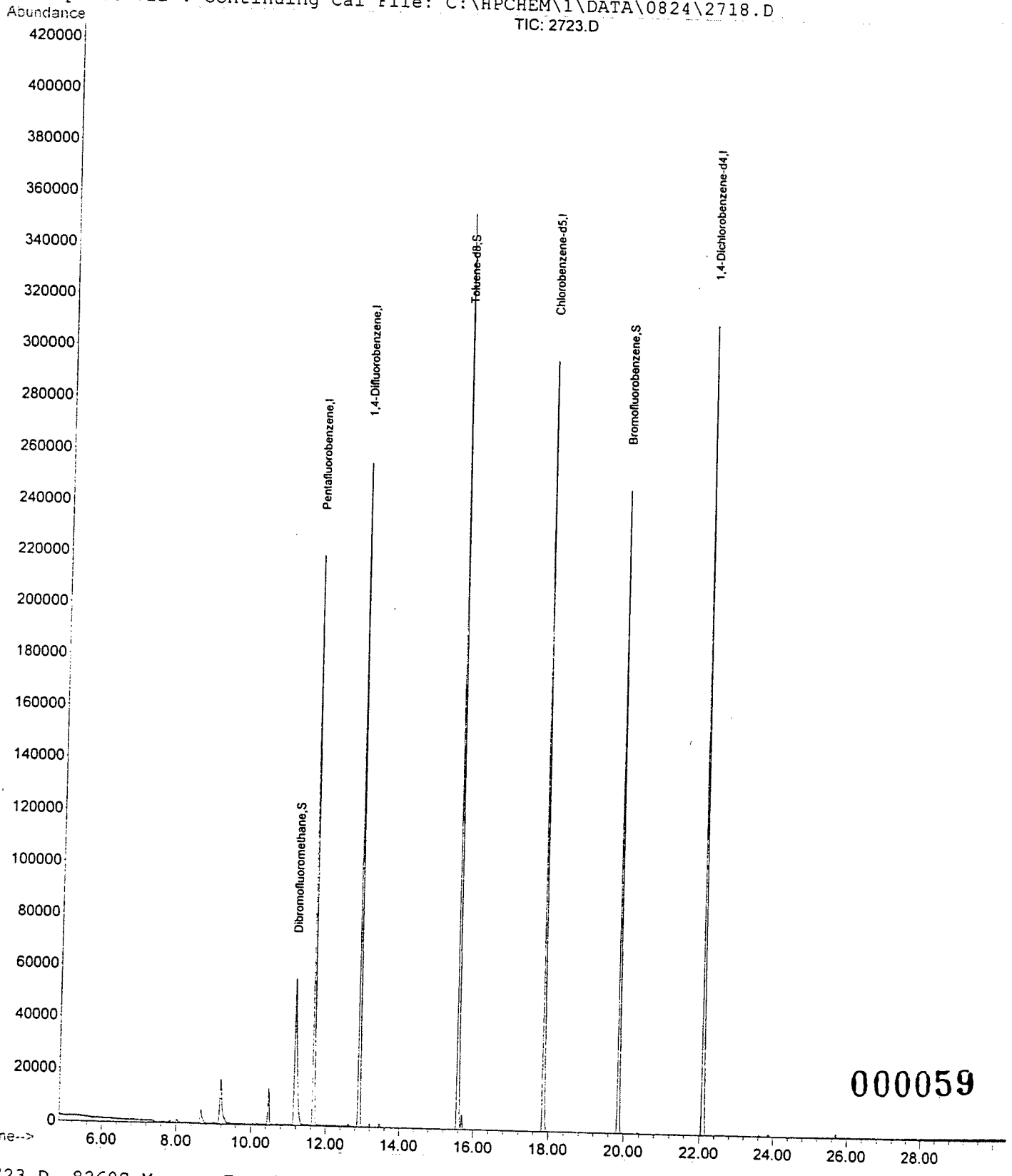
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0824\2723.D
Acq On : 24 Aug 1999 4:17 pm
Sample : 9908-219-04 1:50 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 14:08 1999

Vial: 9
Operator:
Inst : GC/MS F
Multiplr: 1.00

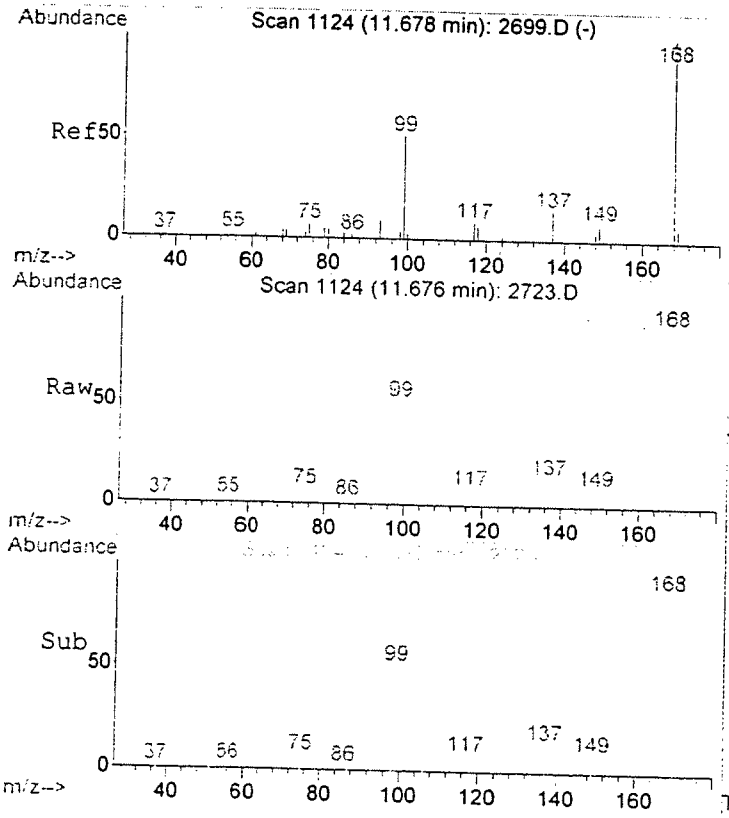
Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\8260S.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 05 16:09:30 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



000059

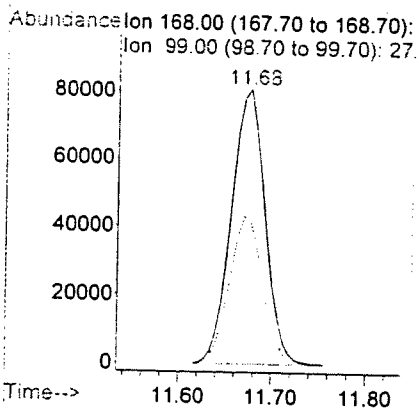
2723.D 8260S.M Tue Oct 05 16:39:15 1999

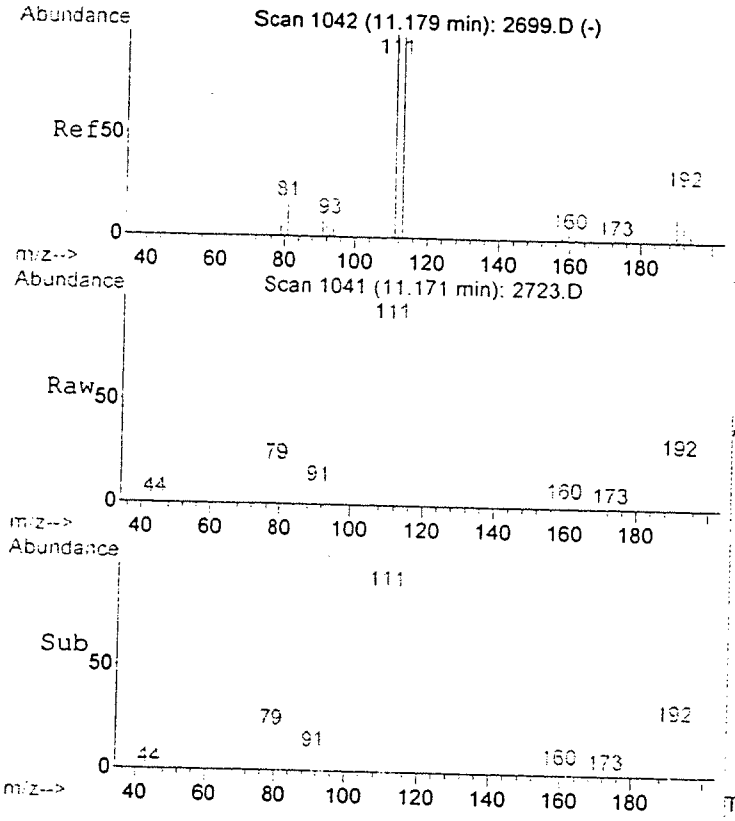


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1124
Delta R.T. -0.00 min
Lab File: 2723.D
Acq: 24 Aug 1999 4:17 pm

Tgt Ion:168 Resp: 202240

Ion	Ratio	Lower	Upper
168	100		
99	53.0	44.1	66.1

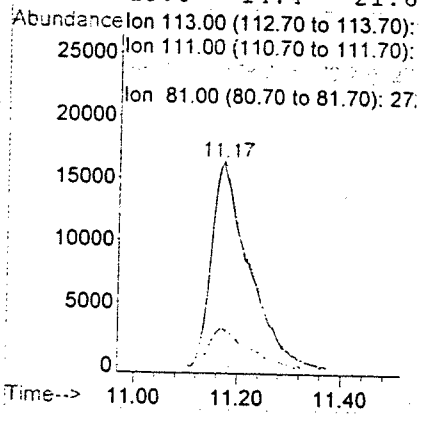




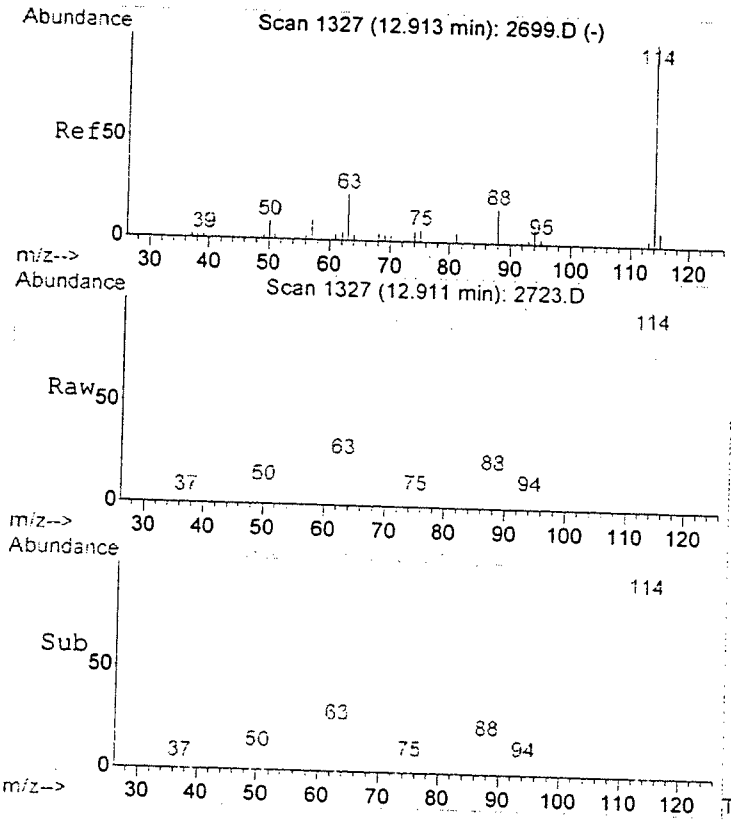
#27
Dibromofluoromethane
Concen: 45.22 ug/l
RT: 11.17 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 2723.D
Acq: 24 Aug 1999 4:17 pm

Tgt Ion:113 Resp: 81176

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.0	121.6
79	19.1	15.4	23.0
81	19.0	14.4	21.6

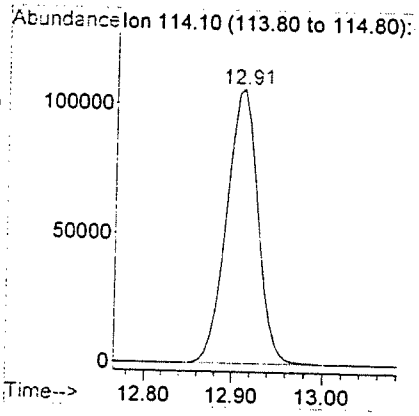


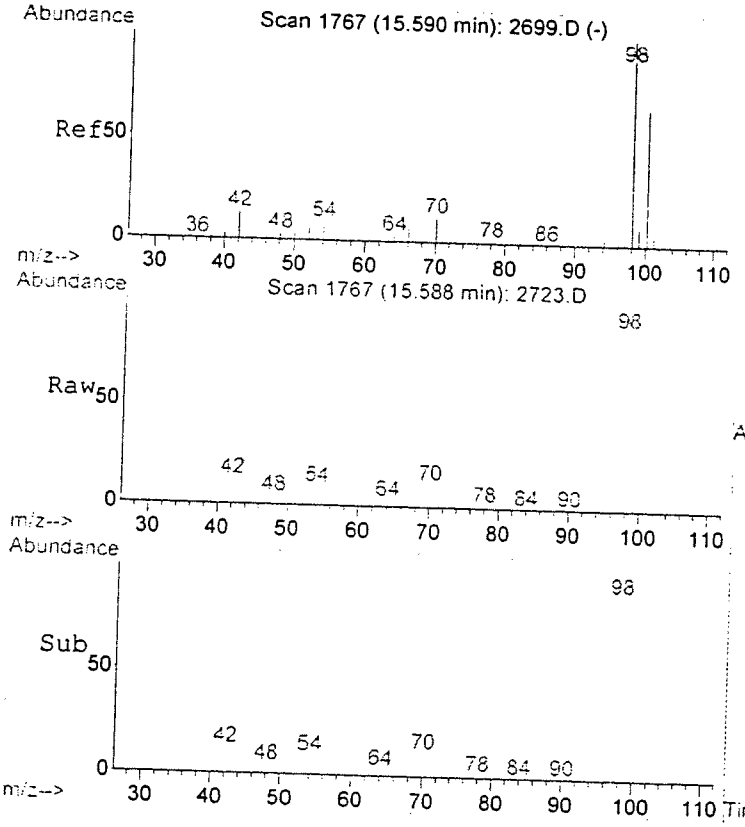
000060



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 2723.D
Acq: 24 Aug 1999 4:17 pm

Tgt Ion:114 Resp: 260792

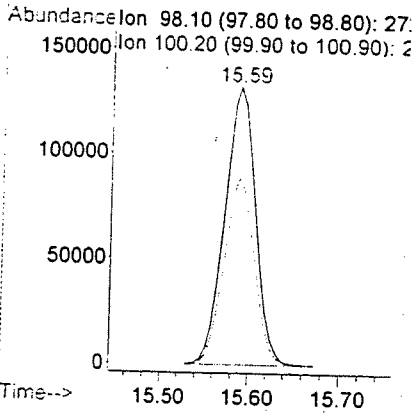




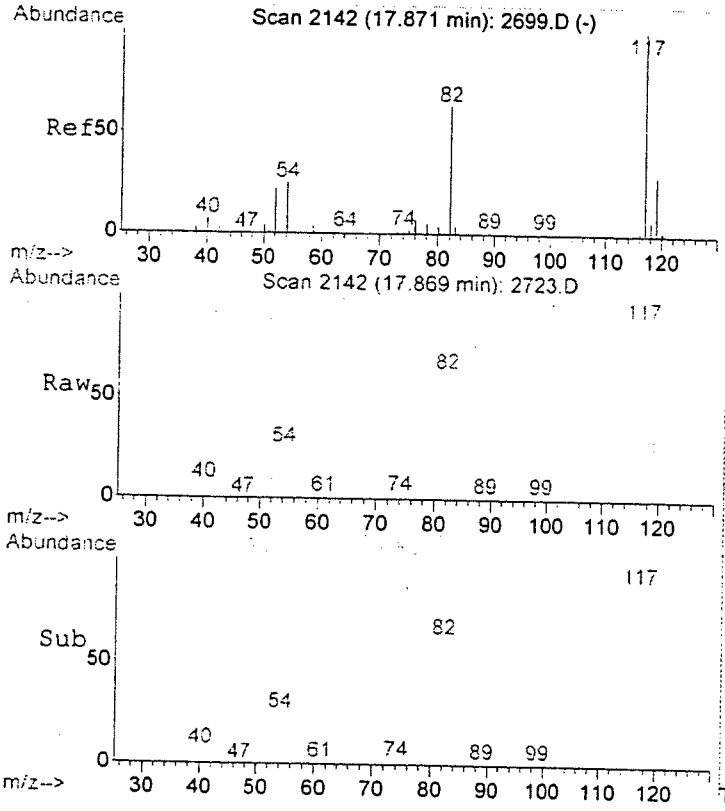
#46
Toluene-d8
Concen: 48.45 ug/l
RT: 15.59 min Scan# 1767
Delta R.T. -0.00 min
Lab File: 2723.D
Acq: 24 Aug 1999 4:17 pm

Tgt Ion: 98 Resp: 318338

Ion	Ratio	Lower	Upper
98	100		
100	66.4	54.2	81.2



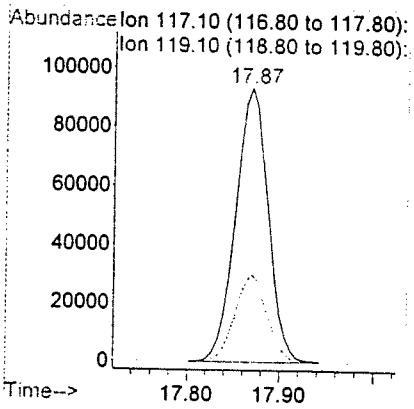
000061

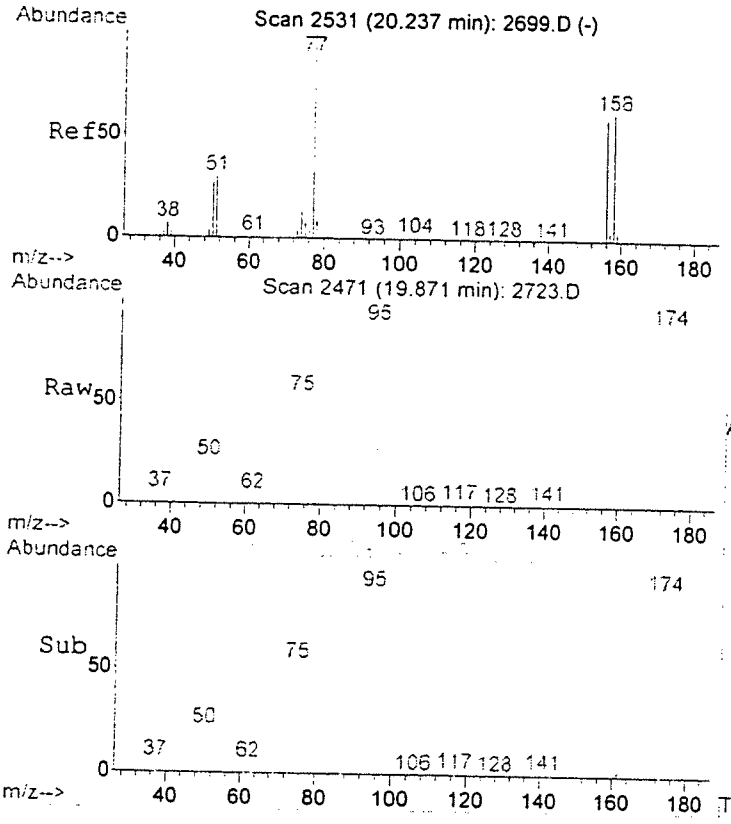


#54
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 17.87 min Scan# 2142
Delta R.T. -0.00 min
Lab File: 2723.D
Acq: 24 Aug 1999 4:17 pm

Tgt Ion:117 Resp: 228020

Ion	Ratio	Lower	Upper
117	100		
119	31.7	25.9	38.9

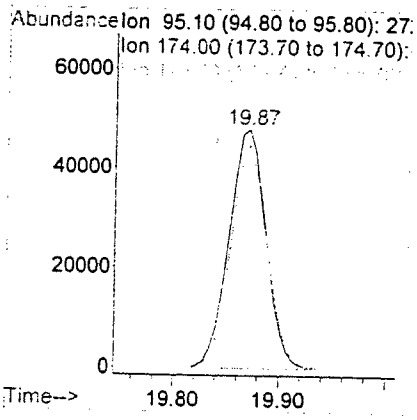




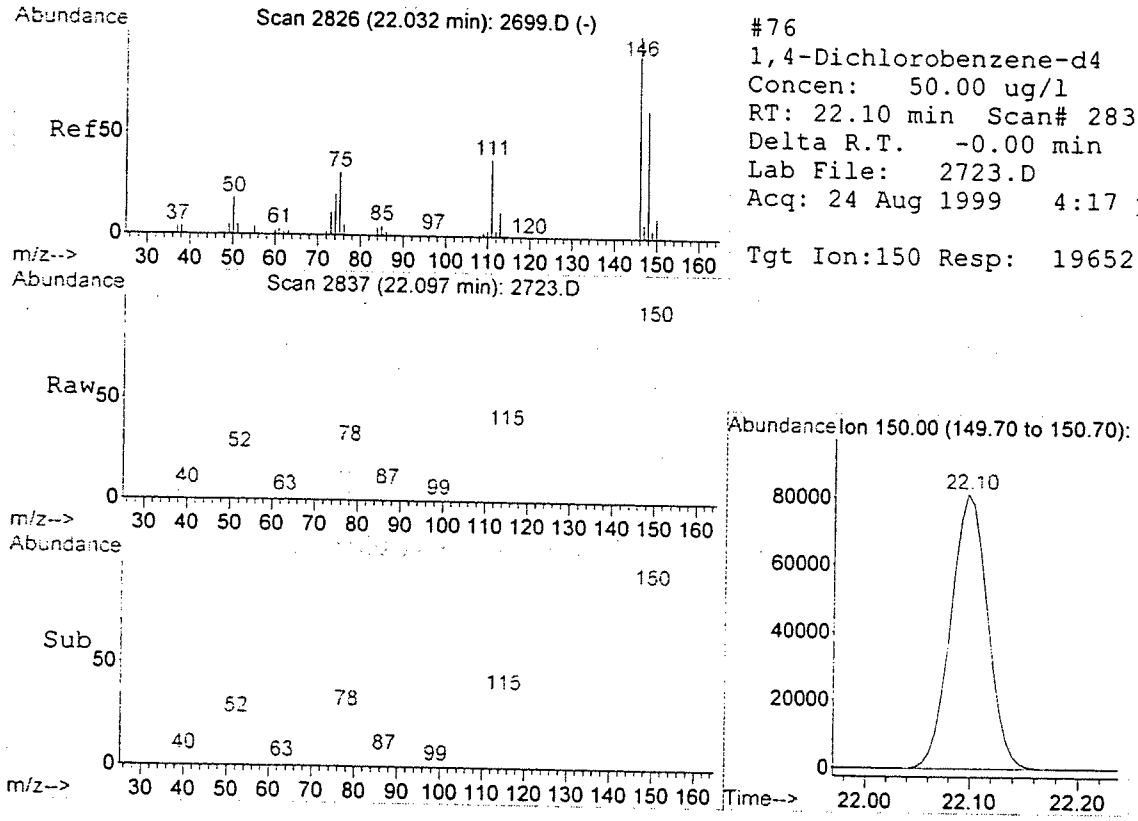
#65
Bromofluorobenzene
Concen: 45.16 ug/l
RT: 19.87 min Scan# 2471
Delta R.T. -0.00 min
Lab File: 2723.D
Acq: 24 Aug 1999 4:17 pm

Tgt Ion: 95 Resp: 115203

Ion	Ratio	Lower	Upper
95	100		
174	92.8	63.3	94.9
176	89.3	62.9	94.3



000062



#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2837
Delta R.T. -0.00 min
Lab File: 2723.D
Acq: 24 Aug 1999 4:17 pm

Tgt Ion:150 Resp: 196521

000063

Data File : C:\HPCHEM\1\DATA\0823A\2707.D Vial: 10
Acq On : 23 Aug 1999 11:10 pm Operator:
Sample : ~~9908-219-06~~ Inst : GC/MS F
Misc : 9908-219-04 1:100 NJS Multiplr: 1.00
MS Integration Params: lteint.p
Quant Time: Aug 23 23:41 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.69	168	134099 ✓	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	205339 ✓	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	197210 ✓	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	172736 ✓	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	63708	58.02	ug/l	0.00
Spiked Amount 50.000			Recovery =	116.04%		
46) Toluene-d8	15.59	98	260806	54.06	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.12%		
65) Bromofluorobenzene	19.87	95	104262	46.48	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.96%		
Target Compounds						Qvalue
5) Bromomethane	12.92	94	13859	55.57	ug/l #	2
9) ACROLEIN	7.86	43	446	1.18	ug/l #	44
10) Acetone	7.86	43	446	1.18	ug/l #	44
16) Carbon Disulfide	15.60	76	2984	1.54	ug/l #	1
20) Vinyl Acetate	10.50	43	1683	0.85	ug/l #	70
21) 2-Butanone	10.50	43	1683	2.34	ug/l #	16
22) 2-Propenenitrile-2-methyl	10.49	41	1059	1.30	ug/l #	30
30) 1-Chlorobutane	11.67	56	2502	1.16	ug/l #	24
37) 1,2-Dichloropropane	13.47	63	880	0.68	ug/l	97
45) 1,1,2-Trichloroethane	15.60	97	7244	6.74	ug/l #	11
47) Toluene	15.70	91	3662	0.73	ug/l	97
48) 1,3-Dichloropropane	15.60	76	2984	1.41	ug/l #	16
49) 2-Hexanone	15.59	43	1105	1.20	ug/l #	1
62) 1,2,3-Trichloropropane	19.87	75	54267	27.76	ug/l #	50
81) unk3	22.10	152	110003	55.00	ug/l #	1

000064

(#) = qualifier out of range (m) = manual integration
2707.D TEST1.M Mon Aug 23 23:41:18 1999

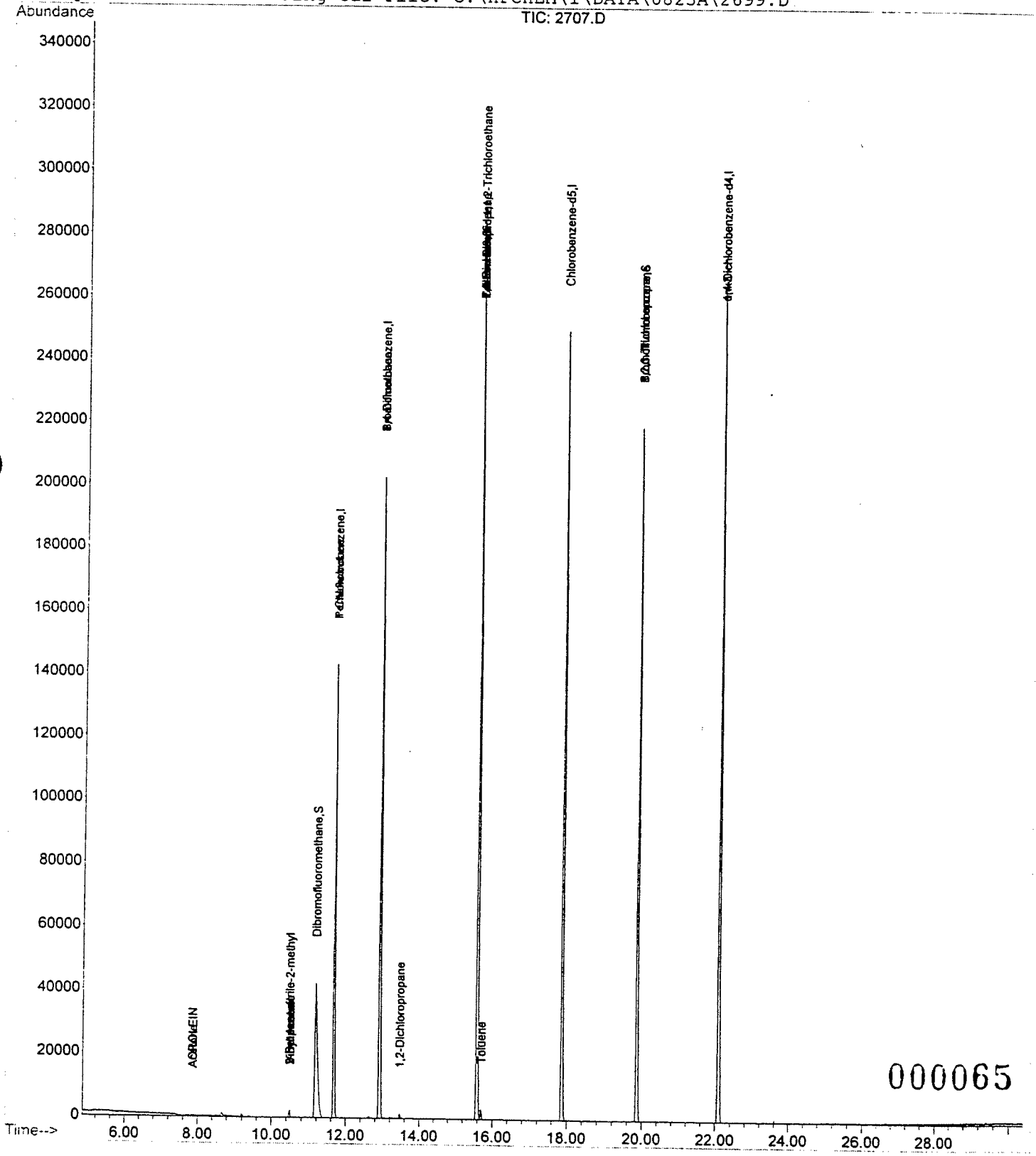
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0823A\2707.D
Acq On : 23 Aug 1999 11:10 pm
Sample : ~~9908-219-06~~ 9908-219-04 1:100 NJS
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 23 23:41 1999

Vial: 10
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



000065

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB081699

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-05

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2721

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100.0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (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
75-01-4	Vinyl Chloride	10	U
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-01-2	Trichloroflouromethane	10	U
75-00-3	Acrolein	10	U
75-35-4	1,1-Dichloroethylene	5	U
67-64-1	Iodomethane	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	7	
67-64-1	Acrylonitrile	10	U
156-60-5	t-1,2-Dichloroethene	5	U
156-60-5	2,2-Dichloropropane	5	U
75-34-4	1,1-Dichloroethane	5	U
67-66-3	Vinyl Acetate	10	U
78-93-3	2-Butanone	10	U
	cis-1,3-Dichloroethylene	5	U
67-66-3	Chloroform	5	U
75-27-4	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
124-48-1	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

000066

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB081699

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-05

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2721

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
121-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5	U
127-18-4	1,2-Dibromomethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
	1,3,5-Trimethylbenzene	5	U
	Xylene (total)	5	U
79-34-5	1,1,1,2-Tetrachloroethane	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
79-34-5	1,3-Dichlorobenzene	5	U
79-34-5	1,4-Dichlorobenzene	5	U
79-34-5	1,2-Dichlorobenzene	5	U
79-34-5	1,2-Dibromo-3-Chloropropane	10	U

000067

Data File : C:\HPCHEM\1\DATA\0824\2721.D
Acq On : 24 Aug 1999 2:34 pm
Sample : 9908-219-05 TB R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 15:14 1999

Vial: 7
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	190424	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	265510	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	209249	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	179628	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.17	113	76343	45.16	ug/l	0.00
Spiked Amount 50.000			Recovery = 90.32%			
46) Toluene-d8	15.60	98	294784	44.07	ug/l	0.00
Spiked Amount 50.000			Recovery = 88.14%			
65) Bromofluorobenzene	19.87	95	105907	45.24	ug/l	0.00
Spiked Amount 50.000			Recovery = 90.48%			
Target Compounds						Qvalue
15) Methylene Chloride	8.67	49	14968	6.84	ug/l	92

000068

(#) = qualifier out of range (m) = manual integration

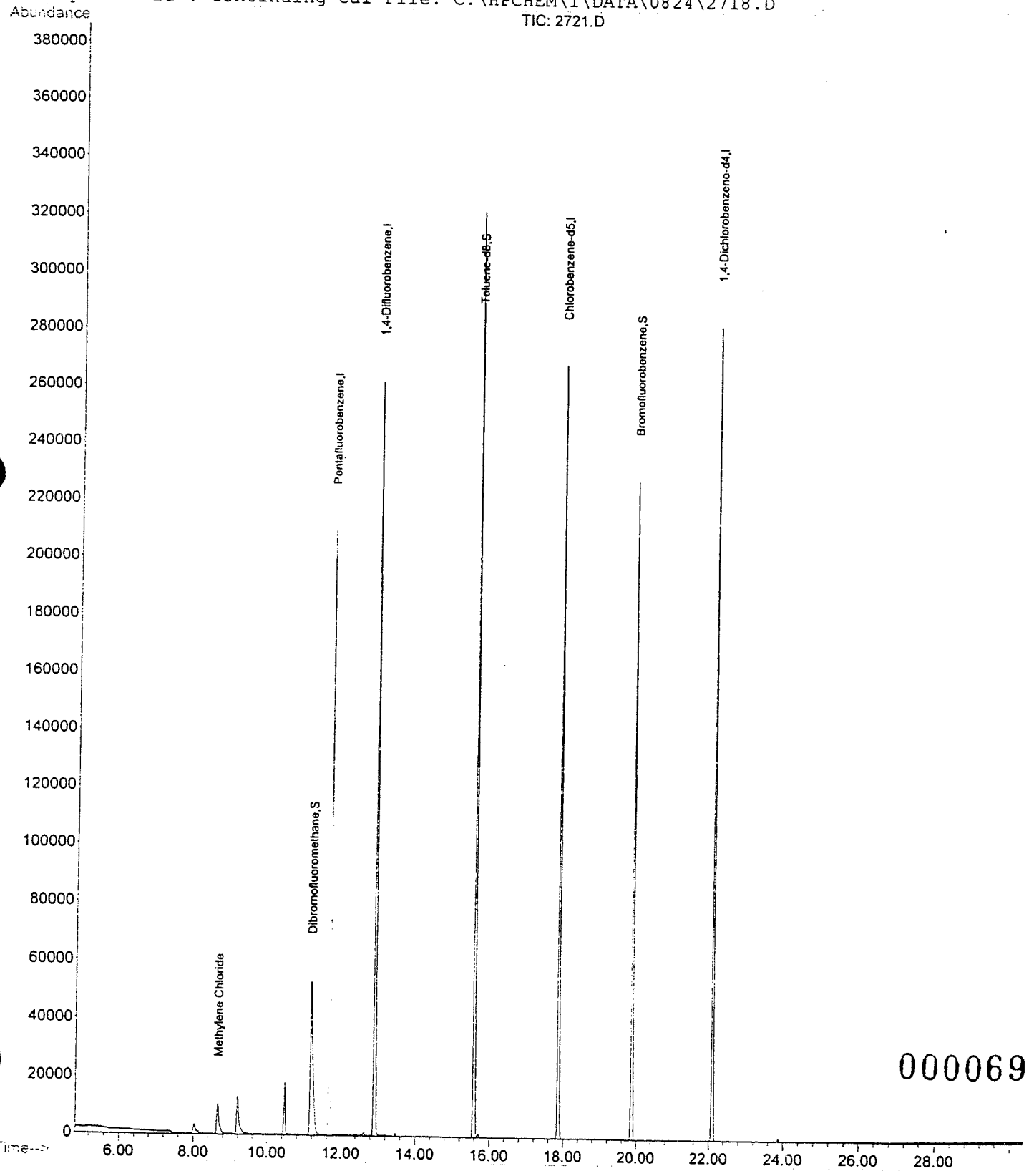
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0824\2721.D
Acq On : 24 Aug 1999 2:34 pm
Sample : 9908-219-05 TB R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 15:14 1999

Vial: 7
Operator:
Inst : GC/MS F
Multiplr: 1.00

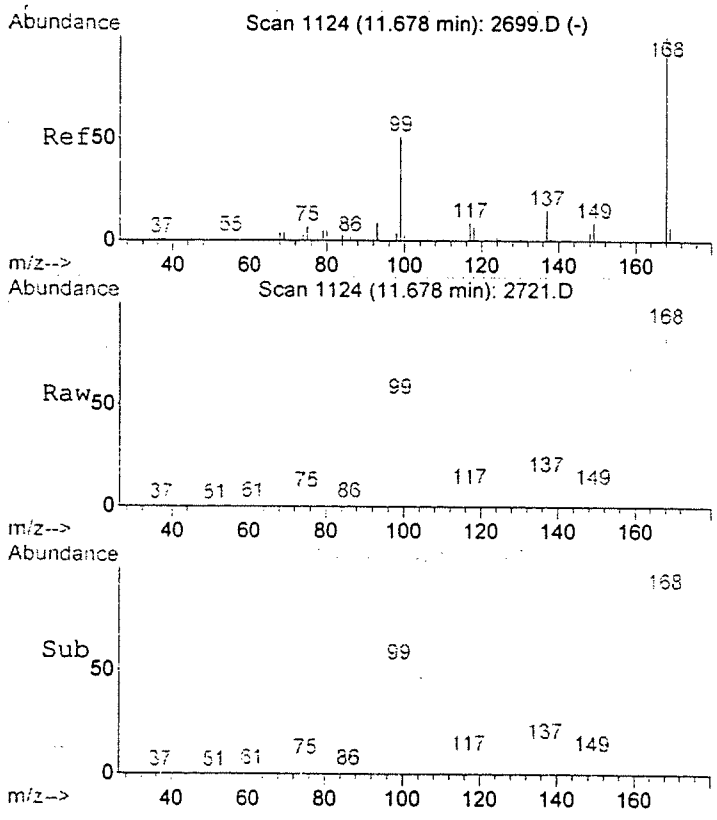
Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\8260S.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 05 16:09:30 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



000069

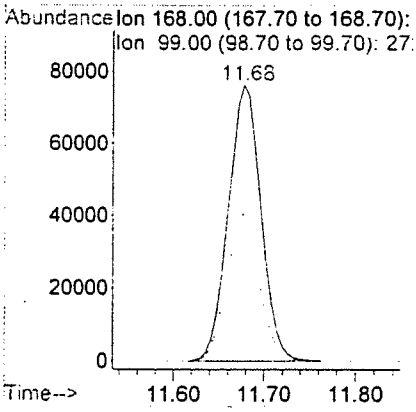
2721.D 8260S.M Tue Oct 05 16:24:02 1999

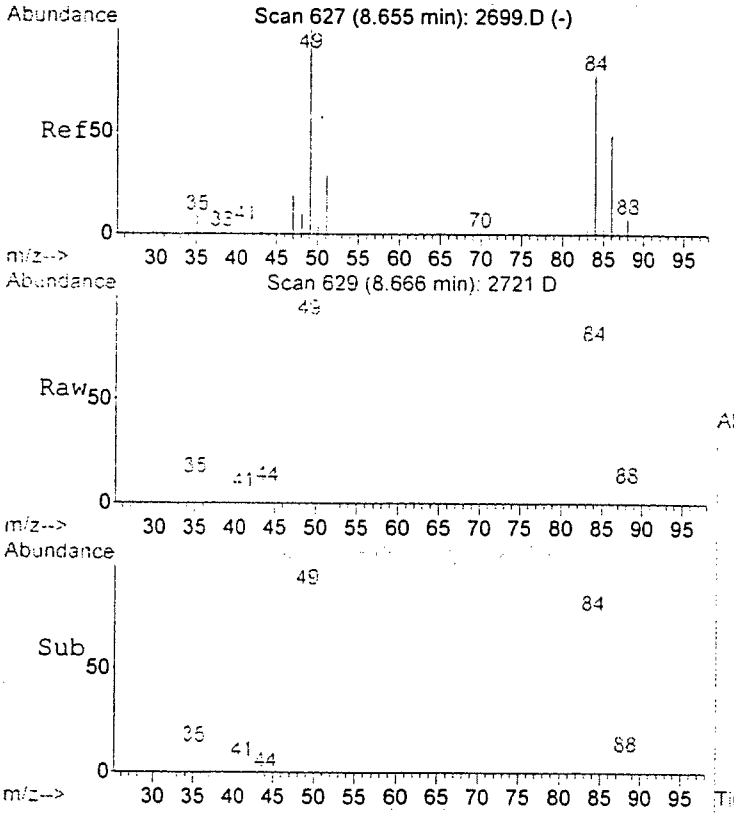


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1124
Delta R.T. -0.00 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion:168 Resp: 190424

Ion	Ratio	Lower	Upper
168	100		
99	53.2	44.1	66.1

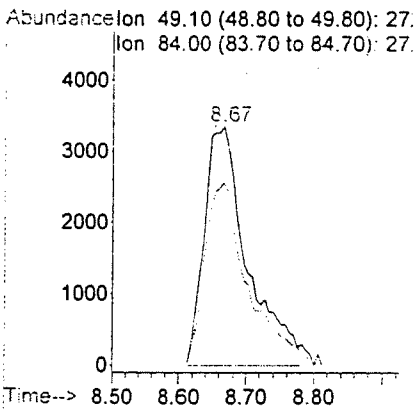




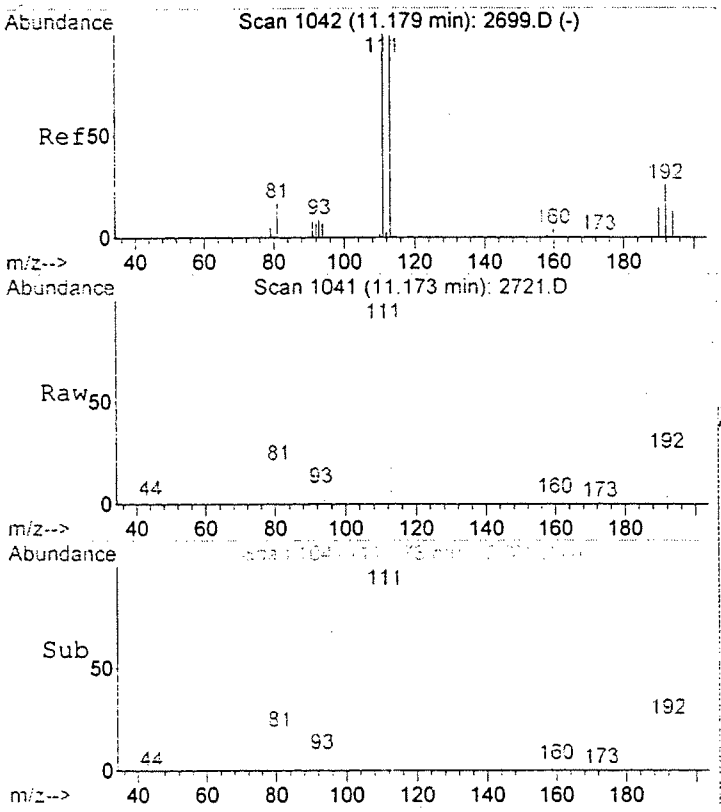
#15
Methylene Chloride
Concen: 6.84 ug/l
RT: 8.67 min Scan# 629
Delta R.T. 0.01 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion: 49 Resp: 14968

Ion	Ratio	Lower	Upper
49	100		
84	75.2	65.4	98.0
86	45.9	41.9	62.9



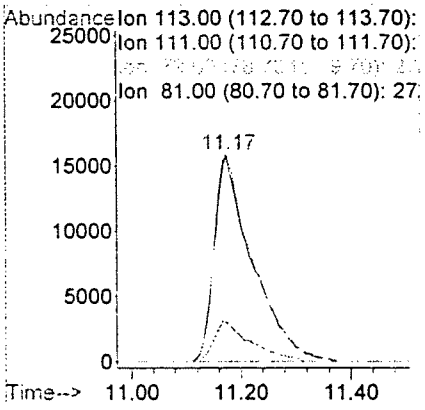
000070

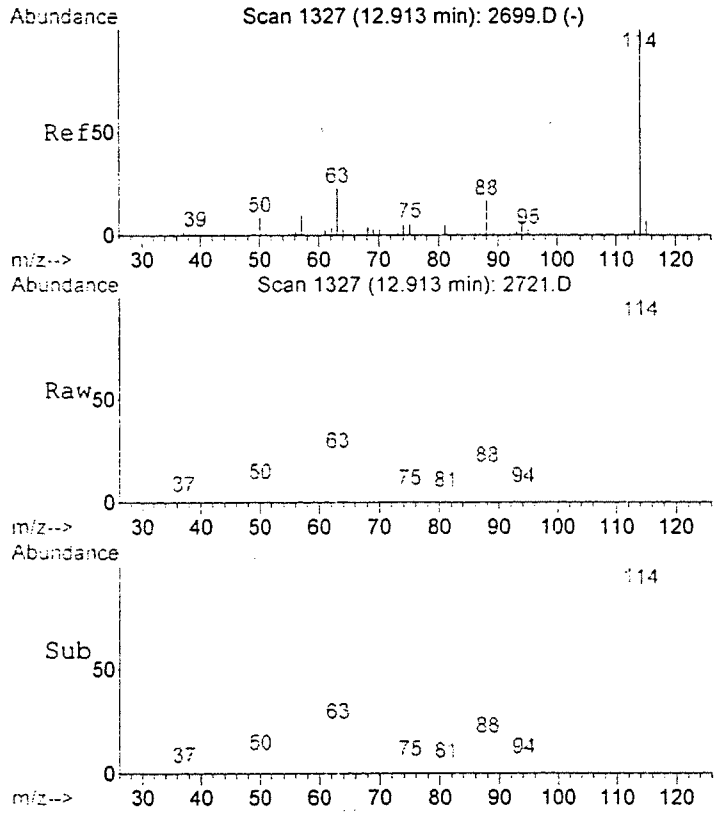


#27
Dibromofluoromethane
Concen: 45.16 ug/l
RT: 11.17 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion:113 Resp: 76343

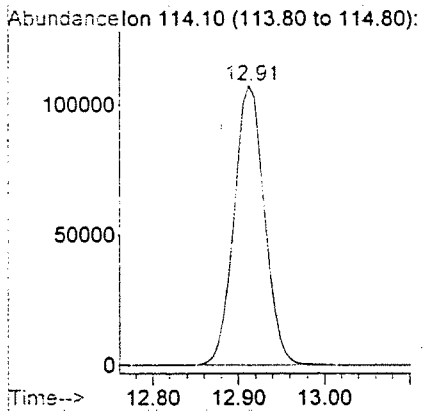
Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.0	121.6
79	18.8	15.4	23.0
81	18.7	14.4	21.6



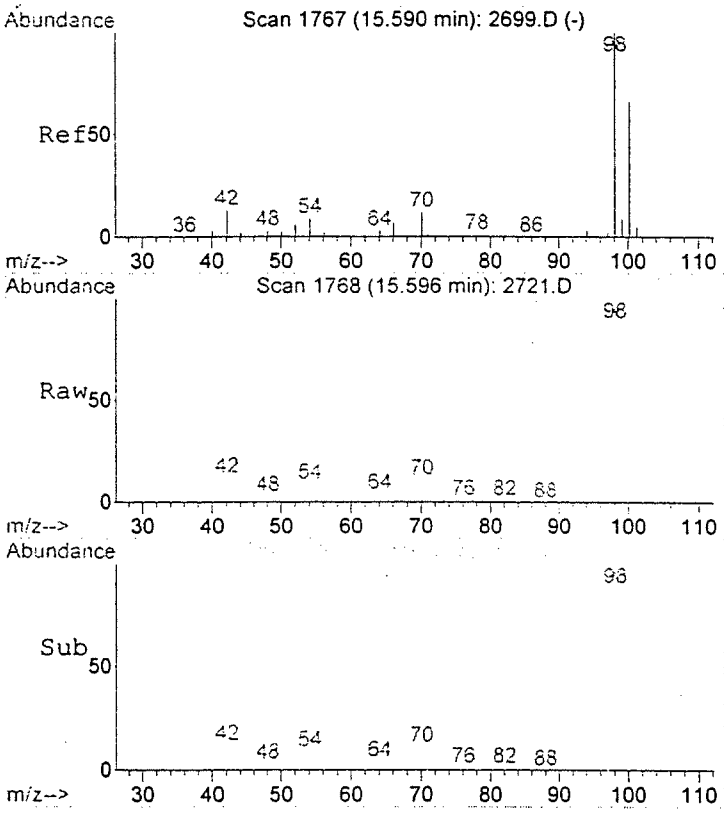


#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion:114 Resp: 265510



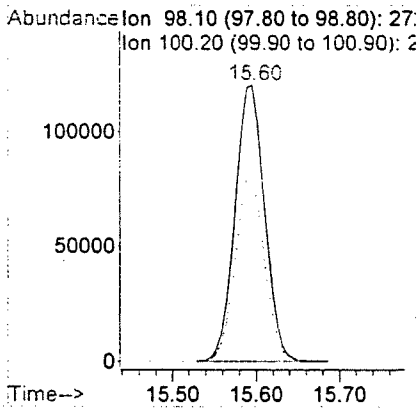
000071

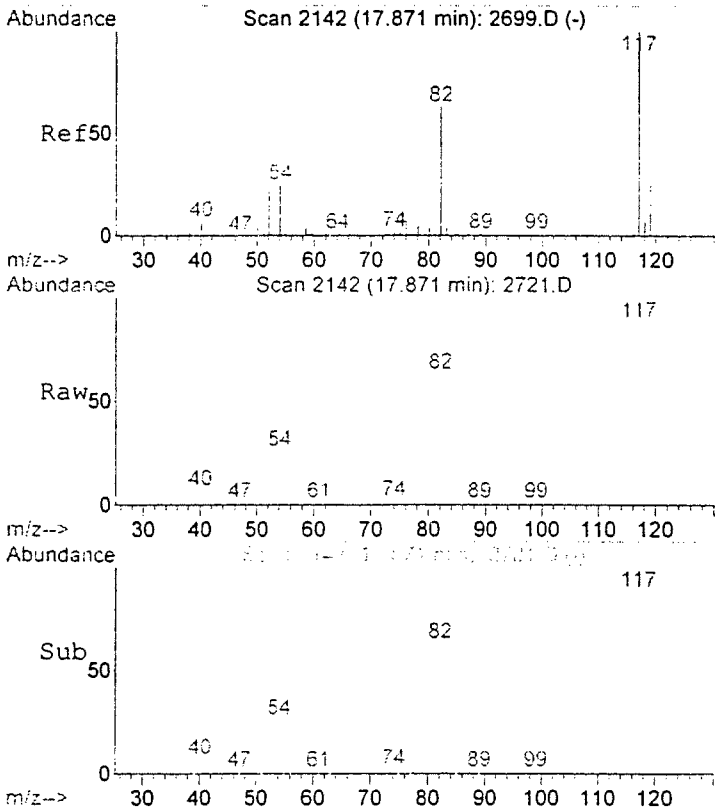


#46
Toluene-d8
Concen: 44.07 ug/l
RT: 15.60 min Scan# 1768
Delta R.T. 0.00 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion: 98 Resp: 294784

Ion	Ratio	Lower	Upper
98	100		
100	66.2	54.2	81.2

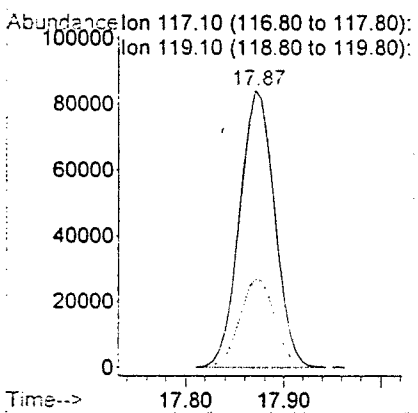




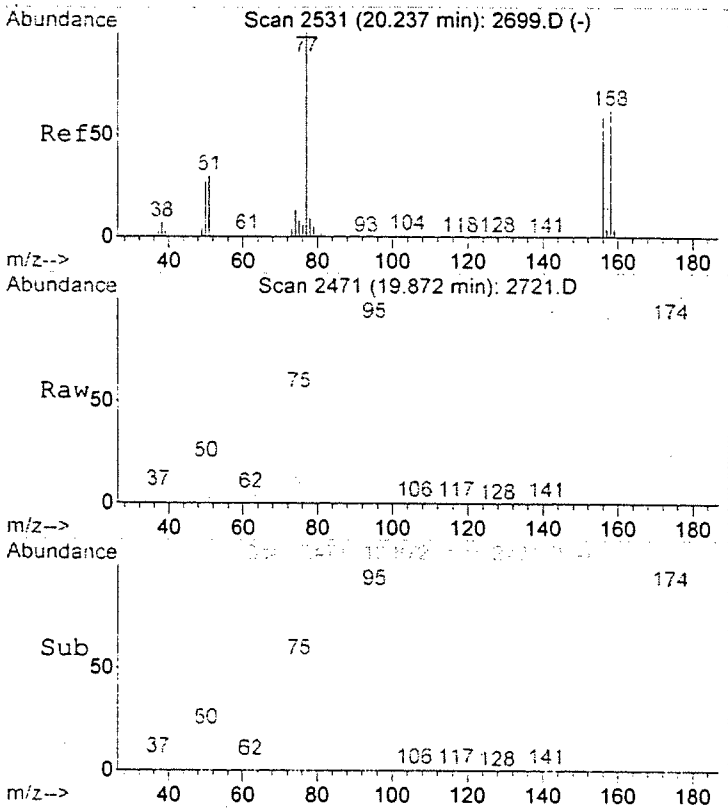
#54
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 17.87 min Scan# 2142
Delta R.T. -0.00 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion:117 Resp: 209249

Ion	Ratio	Lower	Upper
117	100		
119	32.0	25.9	38.9



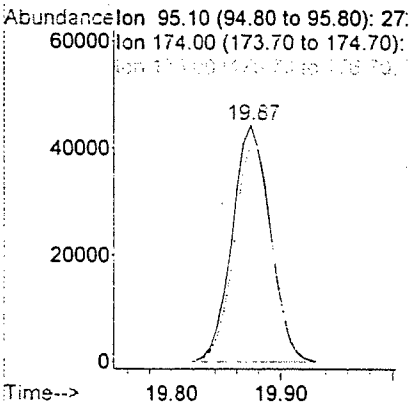
000072

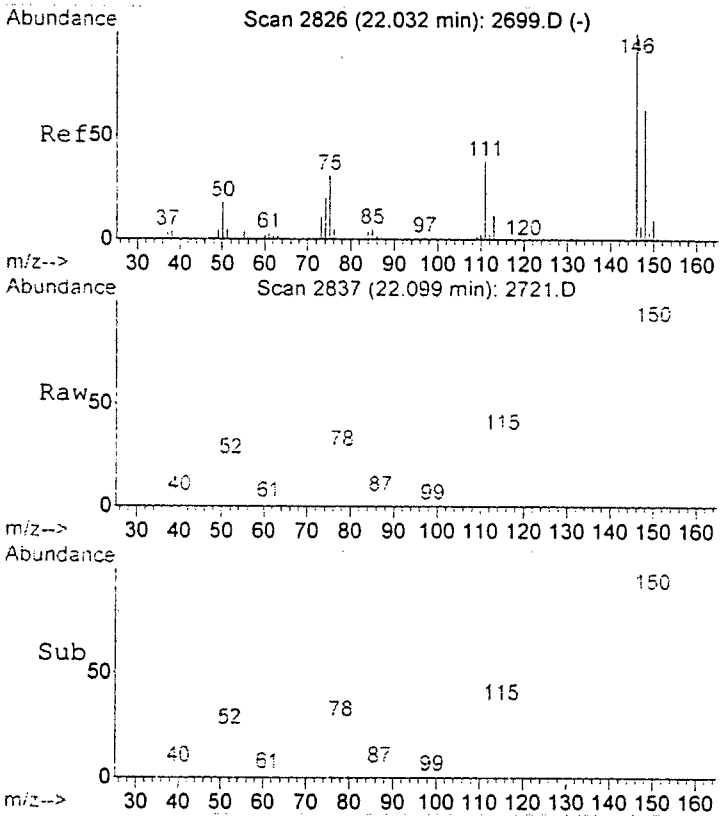


#65
Bromofluorobenzene
Concen: 45.24 ug/l
RT: 19.87 min Scan# 2471
Delta R.T. -0.00 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion: 95 Resp: 105907

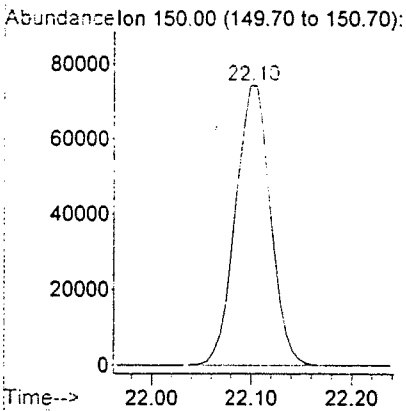
Ion	Ratio	Lower	Upper
95	100		
174	93.4	63.3	94.9
176	89.9	62.9	94.3





#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2837
Delta R.T. -0.00 min
Lab File: 2721.D
Acq: 24 Aug 1999 2:34 pm

Tgt Ion:150 Resp: 179628



000073

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2713.D
Acq On : 24 Aug 1999 3:01 am
Sample : ~~9908-219-01 1:100~~ 9908-219-05 TB mjs
Misc :
Integration Params: rteint.p
Quant Time: Aug 24 3:31 1999

Vial: 16
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	11.68	168	131919	50.00	ug/l		0.00
35) 1,4-Difluorobenzene	12.92	114	223816	50.00	ug/l		0.00
54) Chlorobenzene-d5	17.87	117	130146	50.00	ug/l		0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	69898	50.00	ug/l		0.00
System Monitoring Compounds							
27) Dibromofluoromethane	11.19	113	75832	70.21	ug/l		0.00
Spiked Amount 50.000			Recovery = 140.42%				
46) Toluene-d8	15.60	98	240284	45.69	ug/l		0.00
Spiked Amount 50.000			Recovery = 91.38%				
65) Bromofluorobenzene	19.87	95	56677	38.29	ug/l		0.00
Spiked Amount 50.000			Recovery = 76.58%				
Target Compounds							Qvalue
5) Bromomethane	12.92	94	15280	62.28	ug/l	#	3
7) 3-Chloro-1-Propene	9.20	41	12994	11.21	ug/l	#	72
9) ACROLEIN	7.86	43	2061	5.55	ug/l	#	79
10) Acetone	7.86	43	2061	5.55	ug/l	#	79
15) Methylene Chloride	8.67	49	3413	2.30	ug/l	#	86
16) Carbon Disulfide	15.77	76	2450	1.28	ug/l	#	54
20) Vinyl Acetate	10.49	43	39992	20.64	ug/l	#	57
21) 2-Butanone	10.49	43	39992	56.42	ug/l	#	1
22) 2-Propenenitrile-2-methyl	10.49	41	43290	54.18	ug/l	#	39
34) Benzene	12.63	78	6130	1.39	ug/l		100
37) 1,2-Dichloropropane	13.47	63	1329	0.94	ug/l		99
38) Trichloroethene	13.53	130	4087	3.35	ug/l		97
40) Methyl Methacrylate	13.75	41	4157	3.14	ug/l		95
43) 4-Methyl-2-Pentanone	14.65	43	12910	8.94	ug/l		97
44) T-1,3-Dichloropropene	15.14	75	1091	0.60	ug/l	#	82
45) 1,1,2-Trichloroethane	15.41	97	1061	0.91	ug/l		95
47) Toluene	15.71	91	20692	3.77	ug/l		99
48) 1,3-Dichloropropane	15.77	76	2450	1.06	ug/l	#	1
49) 2-Hexanone	15.97	43	27907	27.86	ug/l	#	94
50) Dibromochloromethane	16.21	129	642	0.64	ug/l	#	70
51) 1,2-Dibromoethane	16.59	107	1411	1.17	ug/l		98
52) Tetrachloroethene	16.86	166	10848	7.46	ug/l		99
53) 1,1,1,2-Tetrachloroethane	17.80	131	1693	1.59	ug/l		99
55) Chlorobenzene	17.93	112	33335	14.21	ug/l		100
56) Ethyl Benzene	18.22	91	28205	6.59	ug/l		100
57) P&M Xylene	18.54	106	44231	25.52	ug/l		100
58) Bromoform	18.75	173	1679	3.38	ug/l	#	91
59) Styrene	19.08	104	36780	12.98	ug/l		99
60) 1,1,2,2-Tetrachloroethane	19.18	83	15890	13.16	ug/l	#	83
61) O-Xylene	19.20	91	56555	15.47	ug/l		100
62) 1,2,3-Trichloropropane	19.42	75	19614	15.20	ug/l	#	81
63) T-1,4-Dichloro-2-Butene	19.42	75	19614	15.20	ug/l	#	27
64) Cumene	19.80	105	55429	12.71	ug/l		97
66) Bromobenzene	20.24	77	27062	14.87	ug/l		98
67) n-Propyl Benzene	20.54	91	91036	17.54	ug/l		98
68) 2-Chlorotoluene	20.72	91	52311	16.49	ug/l		96
69) 4-Chlorotoluene	20.85	91	50347	15.21	ug/l		100

(#) = qualifier out of range (m) = manual integration
2713.D TEST1.M Tue Aug 24 03:31:57 1999

000074

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2713.D Vial: 16
Acq On : 24 Aug 1999 3:01 am Operator:
Sample : 9908-219-01 1:100 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 24 3:31 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70) 1,3,5-Trimethyl Benzene	21.03	105	54981	14.64	ug/l		99
71) Pentachloroethane	21.03	117	1442	3.38	ug/l	#	1
72) t-Butyl Benzene	21.52	119	53075	17.92	ug/l		96
73) 1,2,4-Trimethyl Benzene	21.70	105	42934	11.09	ug/l		99
74) sec-Butyl Benzene	21.90	105	83159	17.50	ug/l		97
75) 1,3-Dichlorobenzene	22.03	146	29288	13.29	ug/l		94
77) 1,4-Dichlorobenzene	22.03	146	29288	26.45	ug/l		95
78) p-Cymene	22.20	119	62853	32.27	ug/l		97
79) 1,2-Dichlorobenzene	22.76	146	22154	21.16	ug/l		100
80) n-Butyl Benzene	22.91	91	37255	19.14	ug/l		97
81) unk3	22.10	152	41676	51.50	ug/l	#	1
82) 1,2-Dibromo-3-Chloropropan	23.58	157	5297	43.65	ug/l	#	88
83) Hexachloroethane	23.71	117	4792	23.67	ug/l	#	20
84) 1,24-Trichlorobenzene	25.96	180	2883	3.37	ug/l		89
85) Napthalene	26.40	128	3562	1.76	ug/l		100
86) Hexachlorobutadiene	26.49	225	7995	14.87	ug/l		96
87) 1,2,3-Trichlorobenzene	26.75	180	1774	2.37	ug/l	#	76

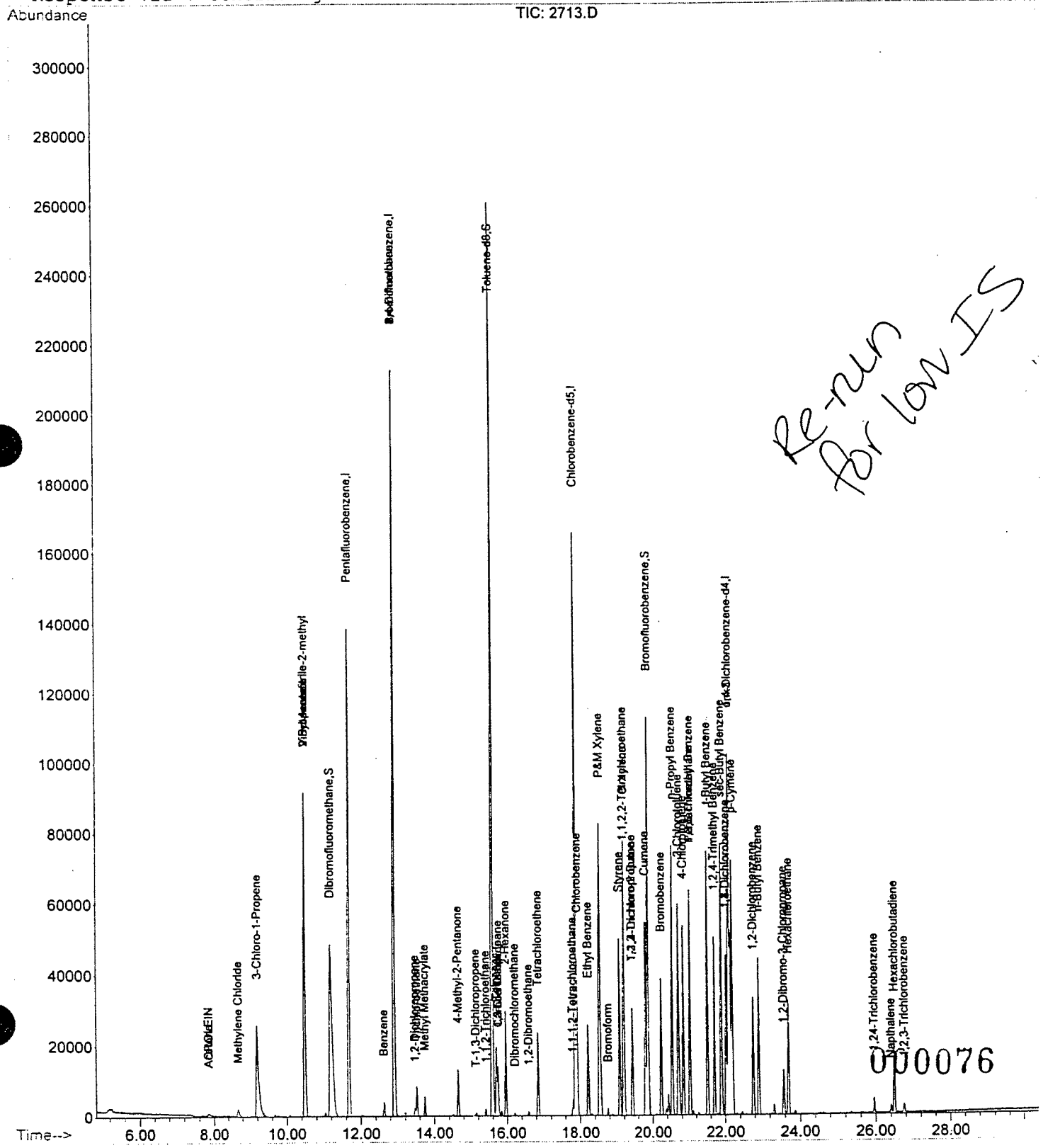
000075

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2713.D TEST1.M Tue Aug 24 03:31:58 1999

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0823A\2713.D Vial: 16
Acq On : 24 Aug 1999 3:01 am Operator:
Sample : ~~9908-219-01 1.100~~ 9908-299-05 TB Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 24 3:31 1999 Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



Re-run for low IS

000076

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB081699

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

ct No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-06

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2726

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100.0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (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
75-01-4	Vinyl Chloride	10	U
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-01-2	Trichloroflouromethane	10	U
75-00-3	Acrolein	10	U
75-35-4	1,1-Dichloroethylene	5	U
67-64-1	Iodomethane	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acrylonitrile	10	U
156-60-5	t-1,2-Dichloroethene	5	U
156-60-5	2,2-Dichloropropane	5	U
75-34-4	1,1-Dichloroethane	5	U
67-66-3	Vinyl Acetate	10	U
78-93-3	2-Butanone	10	U
	cis-1,3-Dichloroethylene	5	U
67-66-3	Chloroform	5	U
75-27-4	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
124-48-1	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

000077

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RB081699

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: 9908-219-06

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2726

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
121-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5	U
127-18-4	1,2-Dibromomethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
	1,3,5-Trimethylbenzene	5	U
	Xylene (total)	5	U
79-34-5	1,1,1,2-Tetrachloroethane	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
79-34-5	1,3-Dichlorobenzene	5	U
79-34-5	1,4-Dichlorobenzene	5	U
79-34-5	1,2-Dichlorobenzene	5	U
79-34-5	1,2-Dibromo-3-Chloropropane	10	U

000078

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0824\2726.D Vial: 12
Acq On : 24 Aug 1999 6:12 pm Operator:
Sample : 9908-219-06 R Inst : GC/MS F
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Aug 30 14:15 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	198255	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	259109	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	231350	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	200227	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	80396	45.68	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.36%			
46) Toluene-d8	15.59	98	307199	47.06	ug/l	0.00
Spiked Amount 50.000			Recovery = 94.12%			
65) Bromofluorobenzene	19.87	95	119948	46.34	ug/l	0.00
Spiked Amount 50.000			Recovery = 92.68%			
Target Compounds						Qvalue

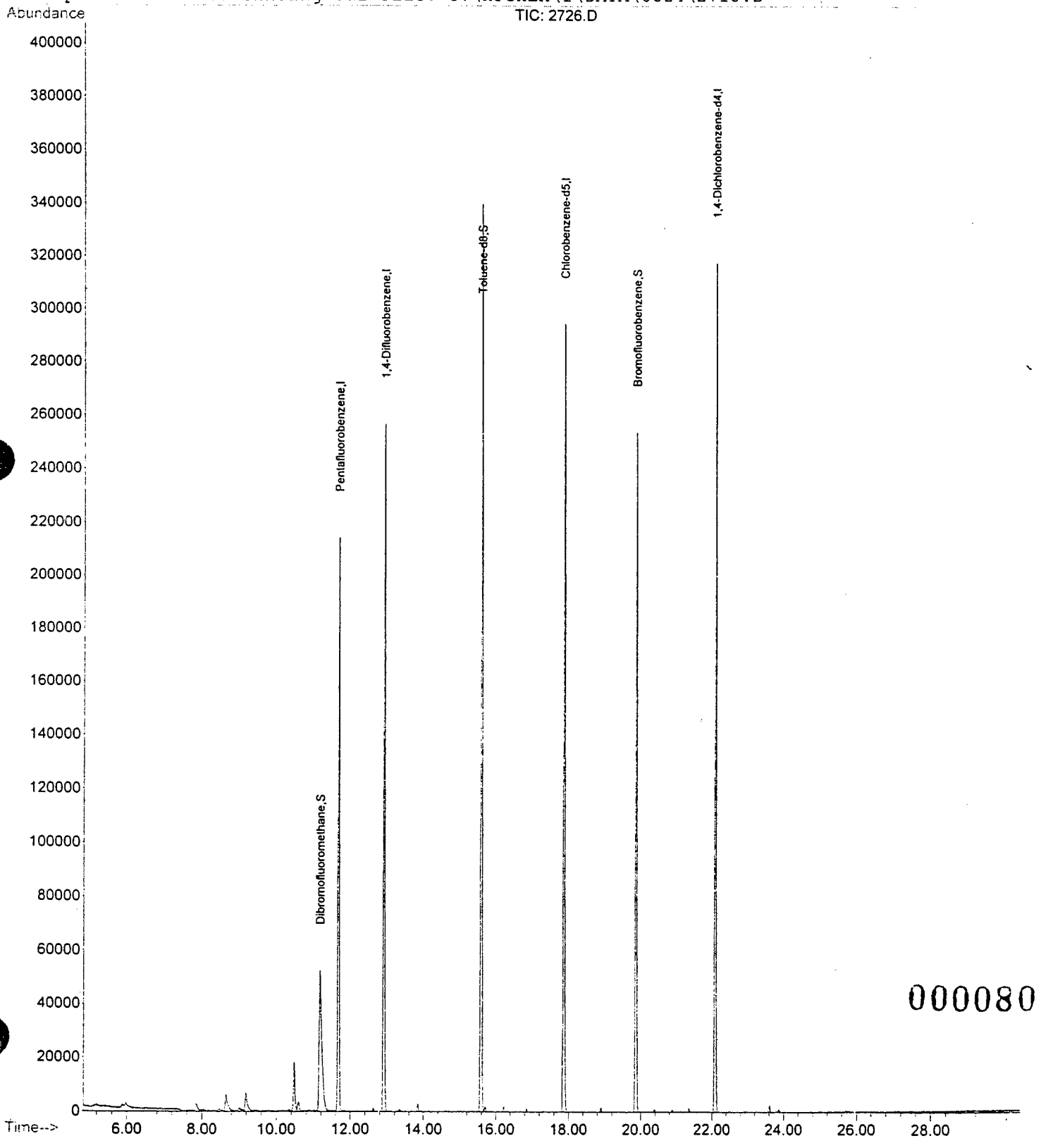
000079

(#) = qualifier out of range (m) = manual integration

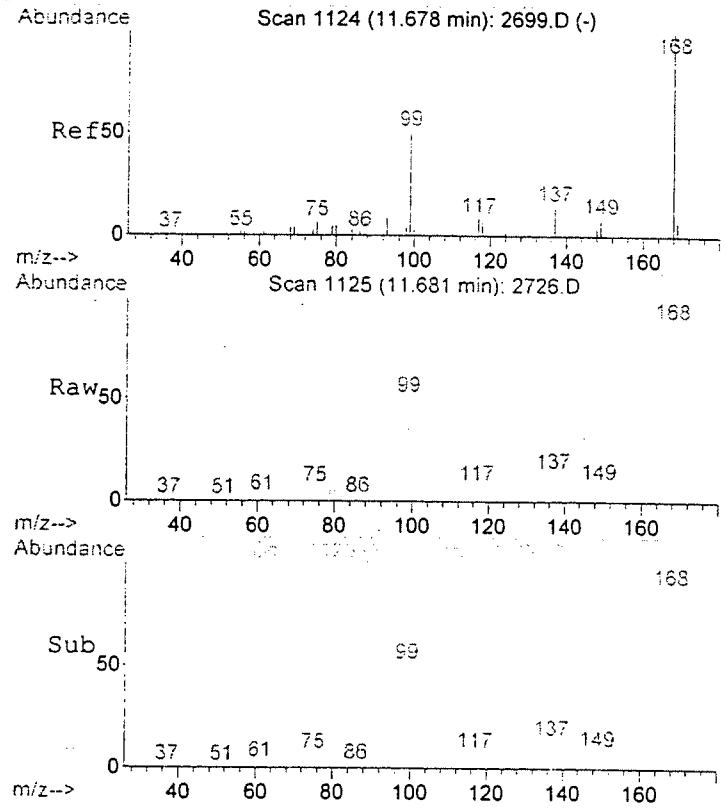
Data File : C:\HPCHEM\1\DATA\0824\2726.D
Acq On : 24 Aug 1999 6:12 pm
Sample : 9908-219-06 R
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 30 14:15 1999

Vial: 12
Operator:
Inst : GC/MS F
Multiplr: 1.00
Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\8260S.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 05 16:09:30 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



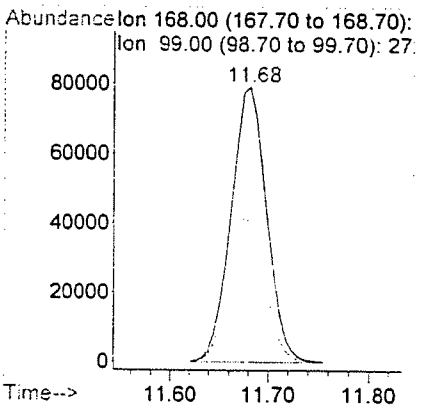
000080

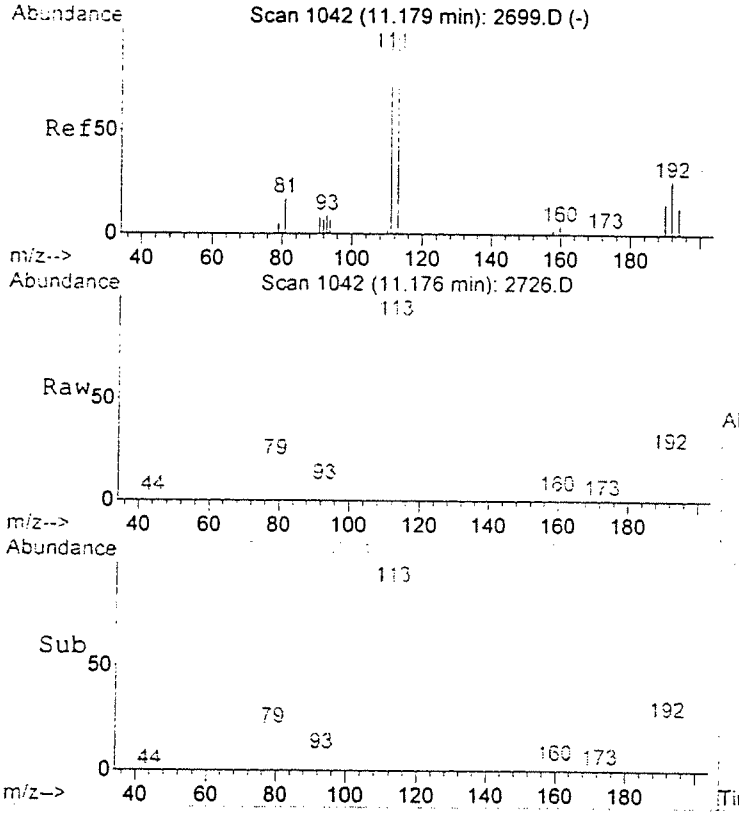


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1125
Delta R.T. 0.00 min
Lab File: 2726.D
Acq: 24 Aug 1999 6:12 pm

Tgt Ion:168 Resp: 198255

Ion	Ratio	Lower	Upper
168	100		
99	53.2	44.1	66.1

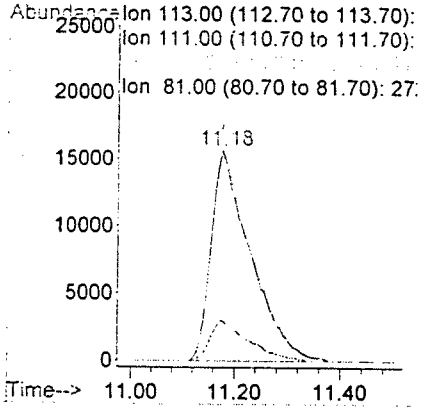




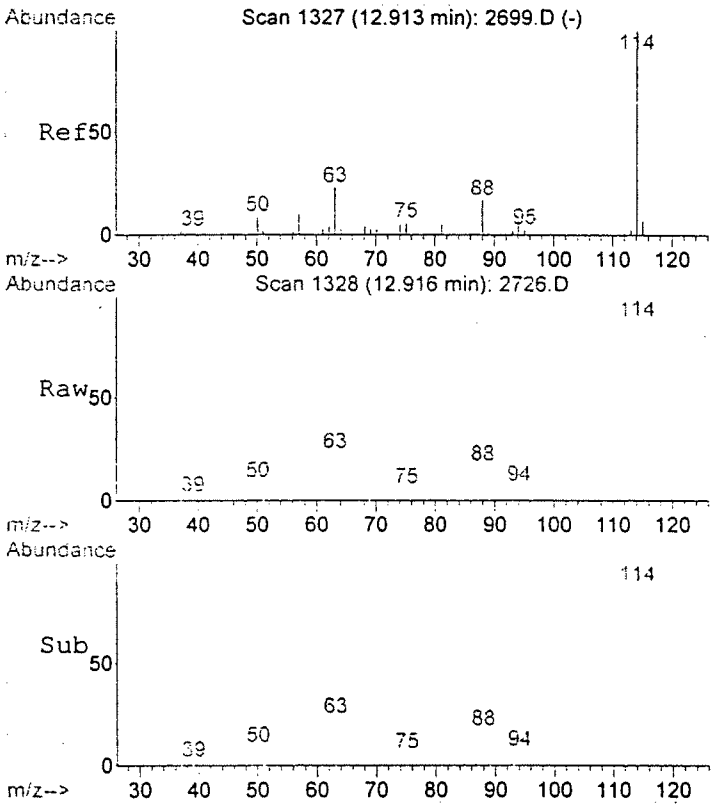
#27
Dibromofluoromethane
Concen: 45.68 ug/l
RT: 11.18 min Scan# 1042
Delta R.T. -0.01 min
Lab File: 2726.D
Acq: 24 Aug 1999 6:12 pm

Tgt Ion:113 Resp: 80396

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.0	121.6
79	19.5	15.4	23.0
81	18.7	14.4	21.6

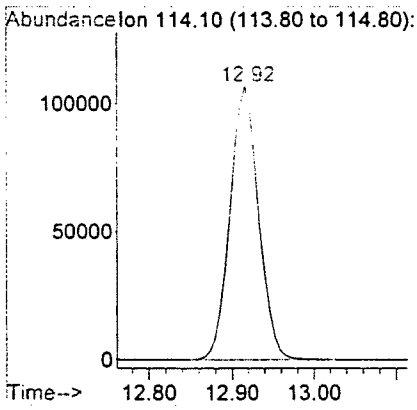


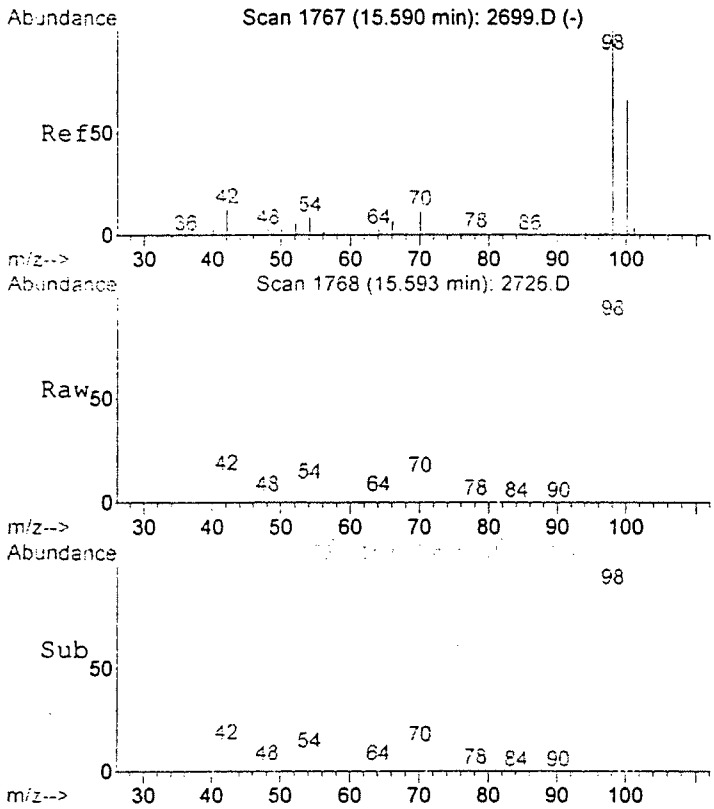
000081



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.92 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 2726.D
Acq: 24 Aug 1999 6:12 pm

Tgt Ion:114 Resp: 259109

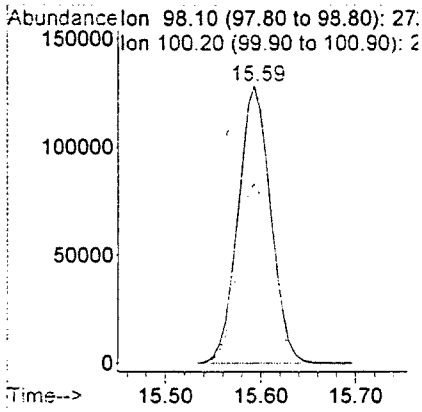




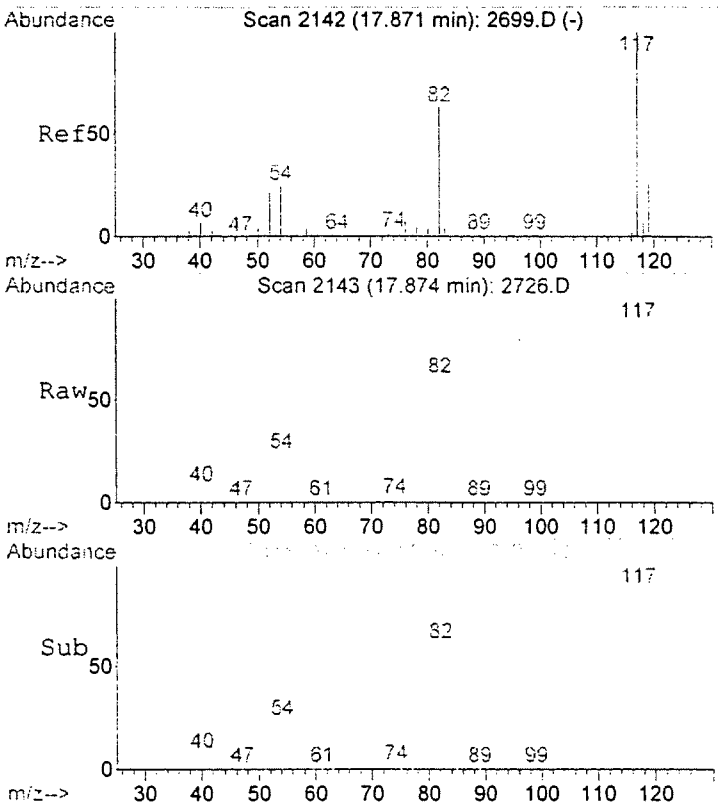
#46
Toluene-d8
Concen: 47.06 ug/l
RT: 15.59 min Scan# 1768
Delta R.T. 0.00 min
Lab File: 2726.D
Acq: 24 Aug 1999 6:12 pm

Tgt Ion: 98 Resp: 307199

Ion	Ratio	Lower	Upper
98	100		
100	66.1	54.2	81.2



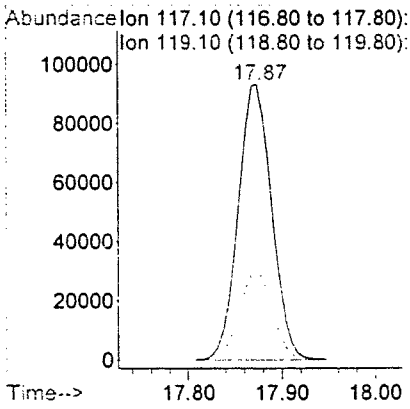
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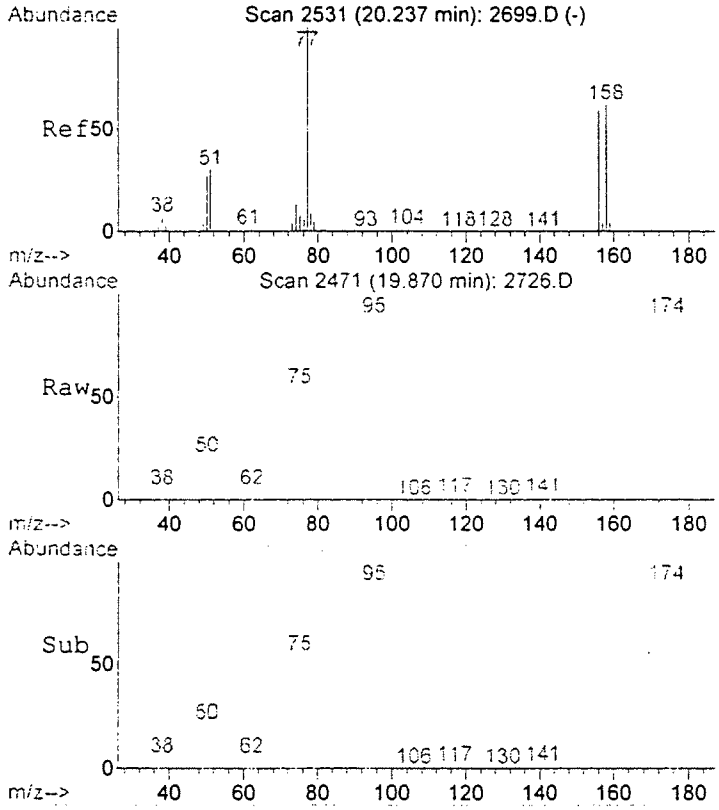


#54
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 17.87 min Scan# 2143
Delta R.T. 0.00 min
Lab File: 2726.D
Acq: 24 Aug 1999 6:12 pm

Tgt Ion:117 Resp: 231350

Ion	Ratio	Lower	Upper
117	100		
119	32.0	25.9	38.9

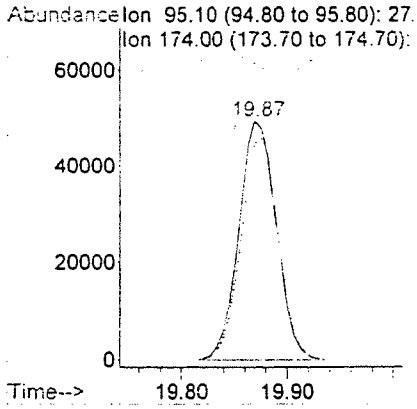




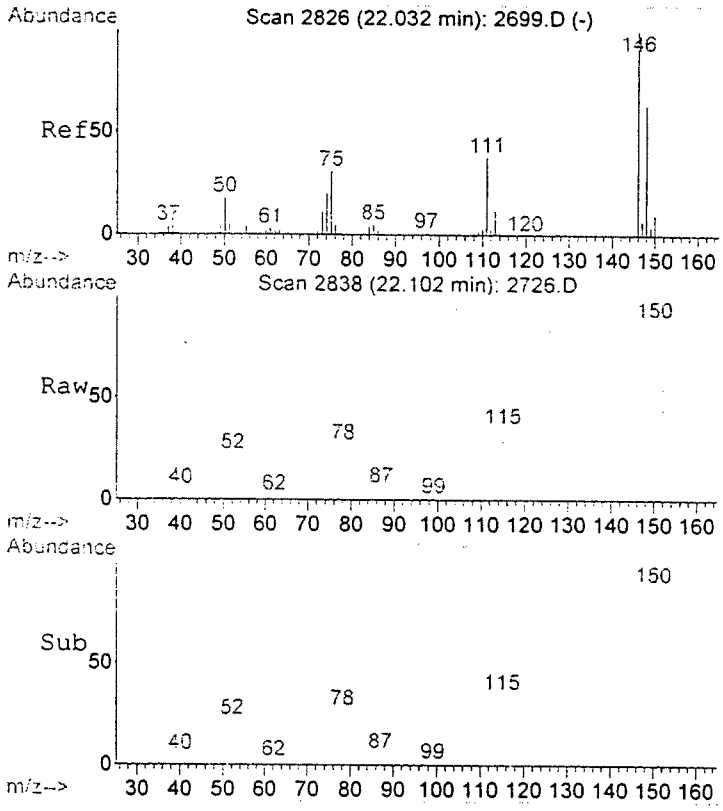
#65
Bromofluorobenzene
Concen: 46.34 ug/l
RT: 19.87 min Scan# 2471
Delta R.T. -0.01 min
Lab File: 2726.D
Acq: 24 Aug 1999 6:12 pm

Tgt Ion: 95 Resp: 119948

Ion	Ratio	Lower	Upper
95	100		
174	91.9	63.3	94.9
176	88.4	62.9	94.3

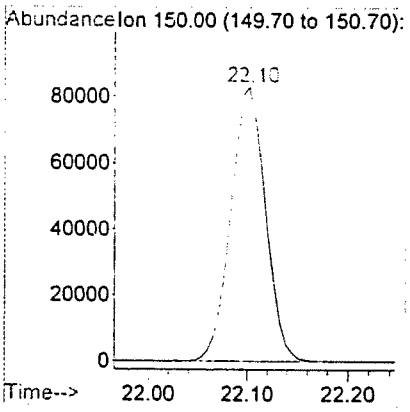


000083



#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2838
Delta R.T. 0.00 min
Lab File: 2726.D
Acq: 24 Aug 1999 6:12 pm

Tgt Ion:150 Resp: 200227



000084

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2712.D
Acq On : 24 Aug 1999 2:22 am
Sample : ~~9908-219-04 1:100~~ 9908-219-06 MJS
c :
Integration Params: rteint.p
Quant Time: Aug 24 2:53 1999

Vial: 15
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

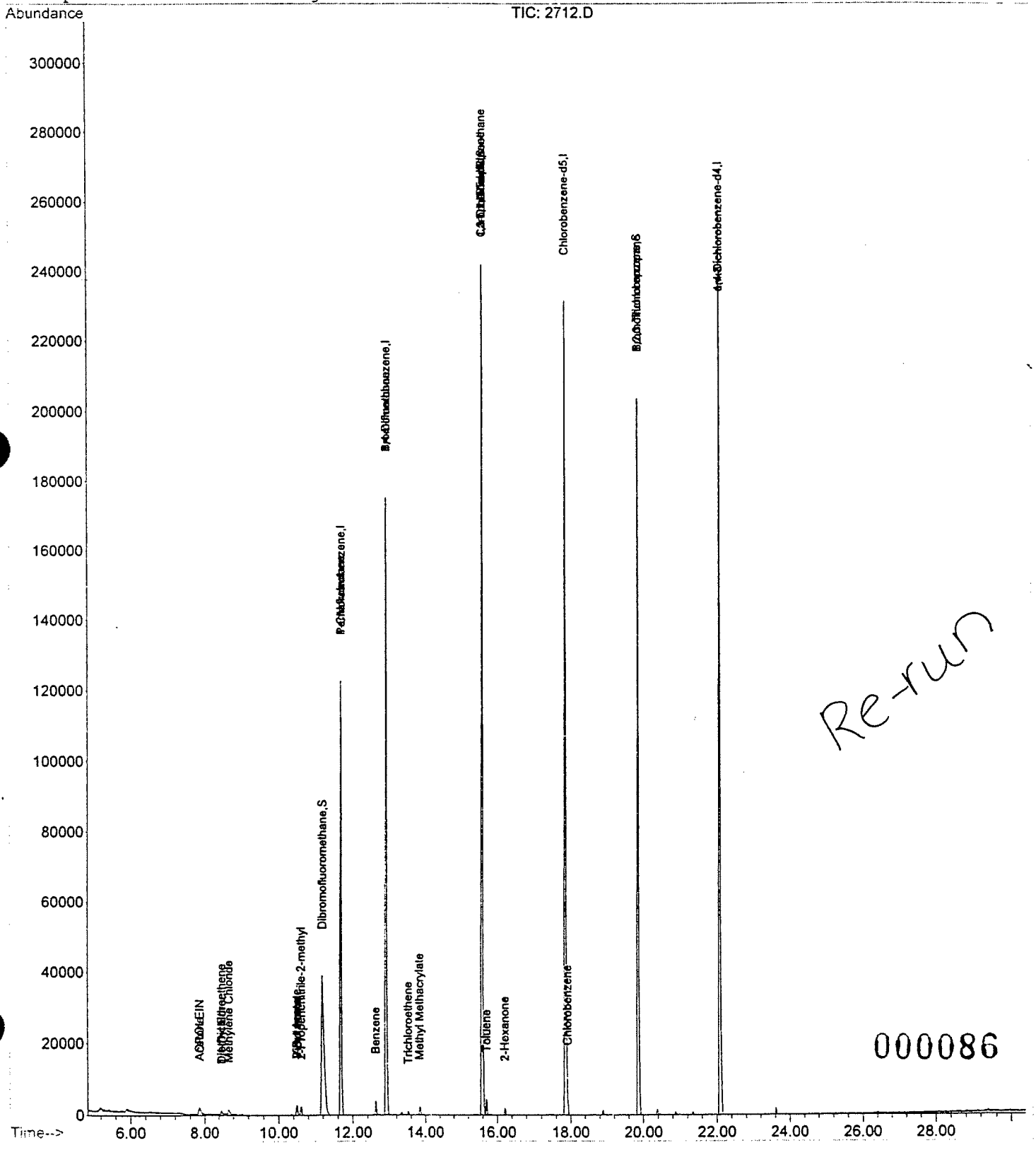
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	11.68	168	114003	50.00	ug/l		0.00
35) 1,4-Difluorobenzene	12.92	114	182175	50.00	ug/l		0.00
54) Chlorobenzene-d5	17.87	117	181343	50.00	ug/l		0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	164943	50.00	ug/l		0.00
System Monitoring Compounds							
27) Dibromofluoromethane	11.18	113	58587	62.76	ug/l		0.00
Spiked Amount 50.000			Recovery = 125.52%				
46) Toluene-d8	15.60	98	223567	52.23	ug/l		0.00
Spiked Amount 50.000			Recovery = 104.46%				
65) Bromofluorobenzene	19.87	95	98665	47.84	ug/l		0.00
Spiked Amount 50.000			Recovery = 95.68%				
Target Compounds							Qvalue
5) Bromomethane	12.92	94	12559	59.23	ug/l	#	4
9) ACROLEIN	7.86	43	6039	18.81	ug/l		99
10) Acetone	7.86	43	6039	18.81	ug/l		99
11) Diethyl Ether	8.48	59	1369	1.99	ug/l	#	13
12) 1,1-Dichloroethene	8.48	61	819	1.05	ug/l	#	41
15) Methylene Chloride	8.68	49	2018	1.57	ug/l	#	79
16) Carbon Disulfide	15.58	76	2586	1.57	ug/l	#	1
20) Vinyl Acetate	10.50	43	3819	2.28	ug/l	#	70
21) 2-Butanone	10.50	43	3819	6.23	ug/l	#	75
22) 2-Propenenitrile-2-methyl	10.61	41	2315	3.35	ug/l	#	41
30) 1-Chlorobutane	11.68	56	2130	1.16	ug/l	#	24
34) Benzene	12.63	78	5086	1.34	ug/l		100
38) Trichloroethene	13.52	130	647	0.65	ug/l		90
40) Methyl Methacrylate	13.84	41	1674	1.55	ug/l	#	19
45) 1,1,2-Trichloroethane	15.60	97	6356	6.67	ug/l	#	11
47) Toluene	15.70	91	5452	1.22	ug/l		98
48) 1,3-Dichloropropane	15.58	76	2586	1.37	ug/l	#	17
49) 2-Hexanone	16.22	43	527	0.65	ug/l	#	37
55) Chlorobenzene	17.93	112	2992	0.92	ug/l		100
62) 1,2,3-Trichloropropane	19.87	75	50609	28.15	ug/l	#	50
81) unk3	22.10	152	104700	54.83	ug/l	#	1

000085

(#) = qualifier out of range (m) = manual integration
2712.D TEST1.M Tue Aug 24 02:53:22 1999

Data File : C:\HPCHEM\1\DATA\0823A\2712.D Vial: 15
Acq On : 24 Aug 1999 2:22 am Operator:
Sample : ~~9908-219-04 1:100~~ 9908-219-06 nyg Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 24 2:53 1999 Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



Re-run

000086

Response Factor Report GC/MS F

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 16:16:14 1999
Response via : Continuing Calibration

Calibration Files
5 =2175.D 20 =2176.D 50 =2178.D
100 =2180.D 200 =2183.D

		Compound	5	20	50	100	200	Avg	%RSD
1)	I	Pentafluorobenzene	ISTD						
2)		Dichlorofluormethane	0.854	0.374	0.738	0.637	0.650	0.651	27.24
3)		Chloromethane	0.422	0.355	0.353	0.278	0.281	0.338	17.78
4)		Vinyl Chloride	0.153	0.112	0.123	0.112	0.100	0.120	16.85
5)		Bromomethane	0.411	0.392	0.377	0.338	0.364	0.376	7.38
6)		Chloroethane	0.182	0.427	0.405	0.358	0.374	0.349	27.83
7)		3-Chloro-1-Propene	0.613	0.596	0.555	0.563	0.547	0.575	4.91
8)		Trichlorofluormethane	0.850	0.843	0.771	0.697	0.739	0.780	8.46
9)		ACROLEIN	0.208	0.183	0.132	0.129	0.104	0.152	28.18
10)		Acetone	0.204	0.183	0.132	0.129	0.104	0.151	27.46
11)		Diethyl Ether	0.338	0.369	0.310	0.316	0.299	0.326	8.45
12)		1,1-Dichloroethene	0.624	0.636	0.551	0.542	0.534	0.577	8.38
13)		Acrylonitrile	0.165	0.199	0.156	0.164	0.149	0.166	11.57
14)		Iodomethane	0.265	0.382	0.414	0.421	0.425	0.382	17.60
15)		Methylene Chloride	0.900	0.712	0.593	0.561	0.528	0.659	22.99
16)		Carbon Disulfide	1.236	1.227	1.133	1.120	1.080	1.159	5.98
17)		T-1,2-Dichloroethene	0.622	0.597	0.551	0.549	0.533	0.571	6.52
18)		MTBE	1.249	1.242	1.151	1.181	1.093	1.183	5.52
19)		1,1-Dichloroethane	0.839	0.800	0.742	0.736	0.710	0.765	6.86
20)		Vinyl Acetate	0.530	0.253	0.662	0.748	0.644	0.568	33.80
21)		2-Butanone	0.397	0.293	0.244	0.226	0.202	0.272	28.45
22)		2-Propenenitrile-2-me	0.277	0.315	0.282	0.293	0.261	0.285	6.98
23)		C-1,2-Dichloroethene	0.534	0.494	0.465	0.467	0.447	0.481	7.00
24)		Bromochloromethane	0.282	0.278	0.259	0.261	0.244	0.265	5.89
25)		Chloroform	0.901	0.864	0.799	0.796	0.757	0.823	7.03
26)		2,2-Dichloropropane	0.551	0.608	0.564	0.578	0.581	0.576	3.70
27)	S	Dibromofluoromethane	0.499	0.421	0.393	0.378	0.372	0.412	12.60
28)		Tetrahydrofuran	0.043	0.057	0.046	0.049	0.041	0.047	13.40
29)		1,2-Dichloroethane	0.669	0.665	0.601	0.603	0.573	0.622	6.88
30)		1-Chlorobutane	1.010	0.982	0.918	0.901	0.883	0.939	5.79
31)		1,1,1-Trichloroethane	0.709	0.695	0.659	0.654	0.648	0.673	4.08
32)		1,1-Dichloropropene	0.637	0.612	0.576	0.569	0.561	0.591	5.48
33)		Carbon Tetrachloride	0.471	0.482	0.470	0.479	0.491	0.479	1.78
34)		Benzene	2.042	1.937	1.783	1.752	1.669	1.836	8.19
35)	I	1,4-Difluorobenzene	ISTD						
36)		Dibromomethane	0.217	0.236	0.221	0.219	0.203	0.219	5.28
37)		1,2-Dichloropropane	0.381	0.371	0.351	0.345	0.335	0.357	5.28
38)		Trichloroethene	0.319	0.334	0.316	0.300	0.289	0.312	5.57
39)		Bromodichloromethane	0.418	0.451	0.447	0.450	0.437	0.441	3.14
40)		Methyl Methacrylate	0.238	0.322	0.296	0.300	0.260	0.283	11.88
41)		Chloroiodomethane			0.001	0.003	0.004	0.003	64.41
42)		C-1,3-Dichloropropene	0.474	0.534	0.524	0.525	0.509	0.513	4.66
43)		4-Methyl-2-Pentanone	0.274	0.364	0.321	0.322	0.277	0.312	11.89
44)		T-1,3-Dichloropropene	0.420	0.505	0.501	0.510	0.486	0.484	7.69
45)		1,1,2-Trichloroethane	0.294	0.324	0.304	0.301	0.278	0.300	5.52
46)	S	Toluene-d8	1.394	1.261	1.197	1.104	1.074	1.206	10.64
47)		Toluene	1.432	1.521	1.434	1.362	1.250	1.400	7.21
48)		1,3-Dichloropropane	0.552	0.611	0.578	0.568	0.515	0.565	6.23
49)		2-Hexanone	0.169	0.259	0.224	0.228	0.190	0.214	16.35
50)		Dibromochloromethane	0.216	0.276	0.286	0.298	0.292	0.273	12.16
51)		1,2-Dibromoethane	0.265	0.324	0.304	0.305	0.283	0.296	7.68

000146

(#) = Out of Range
TEST1.M Mon Jul 19 16:16:50 1999

Response Factor Report GC/MS F

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 16:16:14 1999
Response via : Continuing Calibration

Calibration Files
5 =2175.D 20 =2176.D 50 =2178.D
100 =2180.D 200 =2183.D

		Compound	5	20	50	100	200	Avg	%RSD
52)		Tetrachloroethene	0.412	0.415	0.383	0.372	0.359	0.388	6.35
53)		1,1,1,2-Tetrachloroet	0.259	0.312	0.310	0.308	0.304	0.299	7.50
54)	I	Chlorobenzene-d5	----------ISTD----------						
55)		Chlorobenzene	1.085	1.081	1.004	0.940	0.900	1.002	8.23
56)		Ethyl Benzene	1.997	1.981	1.871	1.751	1.651	1.850	8.05
57)		P&M Xylene	0.751	0.794	0.747	0.700	0.652	0.729	7.47
58)		Bromoform	0.151	0.208	0.224	0.235	0.240	0.211	17.15
59)		Styrene	0.748	1.254	1.221	1.164	1.095	1.096	18.58
60)		1,1,2,2-Tetrachloroet	0.339	0.507	0.463	0.456	0.405	0.434	14.84
61)		O-Xylene	1.353	1.655	1.568	1.445	1.341	1.472	9.27
62)		1,2,3-Trichloropropan	0.387	0.539	0.502	0.497	0.451	0.475	12.31
63)		T-1,4-Dichloro-2-Bute	0.387	0.539	0.502	0.497	0.451	0.475	12.31
64)		Cumene	1.727	2.047	1.929	1.792	1.680	1.835	8.24
65)	S	Bromofluorobenzene	1.060	0.573	0.540	0.491	0.484	0.630	38.64
66)		Bromobenzene	0.577	0.816	0.781	0.743	0.709	0.725	12.73
67)		n-Propyl Benzene	1.752	2.440	2.289	2.101	1.961	2.108	12.80
68)		2-Chlorotoluene	0.931	1.448	1.376	1.271	1.198	1.245	16.08
69)		4-Chlorotoluene	0.883	1.503	1.416	1.311	1.226	1.268	18.87
70)		1,3,5-Trimethyl Benze	0.998	1.728	1.623	1.502	1.395	1.449	19.42
71)		Pentachloroethane	0.115	0.197	0.201	0.194	0.191	0.179	20.23
72)		t-Butyl Benzene	1.003	1.416	1.319	1.220	1.161	1.224	12.84
73)		1,2,4-Trimethyl Benze	1.008	1.746	1.652	1.523	1.417	1.469	19.50
74)		sec-Butyl Benzene	1.465	2.309	2.124	1.947	1.811	1.931	16.63
75)		1,3-Dichlorobenzene	0.502	0.993	0.924	0.850	0.784	0.811	23.38
76)	I	1,4-Dichlorobenzene-d	----------ISTD----------						
77)		1,4-Dichlorobenzene	0.744	1.033	0.919	0.780	0.656	0.826	18.09
78)		p-Cymene	1.620	1.907	1.664	1.402	1.160	1.551	18.21
79)		1,2-Dichlorobenzene	0.627	0.955	0.850	0.743	0.621	0.759	19.00
80)		n-Butyl Benzene	1.415	1.911	1.663	1.421	1.220	1.526	17.47
81)		unk3	0.032					0.032	0.00
82)		1,2-Dibromo-3-Chlorop	0.040	0.092	0.087	0.086	0.073	0.076	28.25
83)		Hexachloroethane	0.173	0.217	0.217	0.207	0.208	0.205	8.94
84)		1,24-Trichlorobenzene	0.476	0.763	0.656	0.587	0.514	0.599	19.17
85)		Napthalene	0.786	1.631	1.371	1.300	1.056	1.229	26.15
86)		Hexachlorobutadiene	0.429	0.544	0.426	0.380	0.354	0.426	17.03
87)		1,2,3-Trichlorobenzen	0.310	0.641	0.548	0.495	0.421	0.483	26.03

000147

[redacted]

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2175.D
Acq On : 7 Jul 1999 6:50 pm
Sample : 5
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:13 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	11.67	168	279056	50.00	ug/l		0.00
35) 1,4-Difluorobenzene	12.91	114	423970	50.00	ug/l		0.00
54) Chlorobenzene-d5	17.87	117	329102	50.00	ug/l		0.00
76) 1,4-Dichlorobenzene-d4	22.09	150	222163	50.00	ug/l		0.00
System Monitoring Compounds							
27) Dibromofluoromethane	11.18	113	13929	5.83	ug/l		0.01
Spiked Amount 50.000			Recovery = 11.66%				
46) Toluene-d8	15.59	98	59081	5.63	ug/l		0.00
Spiked Amount 50.000			Recovery = 11.26%				
65) Bromofluorobenzene	19.87	95	34894m	9.48	ug/l		0.00
Spiked Amount 50.000			Recovery = 18.96%				
Target Compounds							Qvalue
2) Dichlorofluormethane	5.33	85	23818	12.38	ug/l		100
3) Chloromethane	5.75	50	11766	5.30	ug/l	#	71.
4) Vinyl Chloride	5.97	62	4269m	3.69	ug/l		
5) Bromomethane	6.69	94	11459	7.82	ug/l	#	22
6) Chloroethane	6.85	64	5079	2.30	ug/l	#	69
7) 3-Chloro-1-Propene	8.82	41	17096	5.01	ug/l	#	94
8) Trichlorofluormethane	7.74	101	23719	5.95	ug/l	#	48
9) ACROLEIN	7.86	43	5812m	7.35	ug/l		
10) Acetone	7.86	43	5701m	6.83	ug/l		
11) Diethyl Ether	8.03	59	9430	4.92	ug/l		98
12) 1,1-Dichloroethene	8.49	61	17413	5.25	ug/l		95
13) Acrylonitrile	8.53	53	4596	4.64	ug/l		97
14) Iodomethane	8.56	142	7408m	4.06	ug/l		
15) Methylene Chloride	8.69	49	25103m	7.00	ug/l		
16) Carbon Disulfide	9.04	76	34500	5.15	ug/l	#	90
17) T-1,2-Dichloroethene	9.62	61	17350	5.26	ug/l		98
18) MTBE	9.73	73	34866	5.06	ug/l		97
19) 1,1-Dichloroethane	9.96	63	23403	5.24	ug/l		98
20) Vinyl Acetate	10.07	43	14802	4.07	ug/l		94
21) 2-Butanone	10.48	43	11079m	7.78	ug/l		
22) 2-Propenenitrile-2-methyl	10.63	41	7724	4.46	ug/l		99
23) C-1,2-Dichloroethene	10.72	96	14891	5.69	ug/l		98
24) Bromochloromethane	10.95	130	7863	5.51	ug/l		99
25) Chloroform	11.02	83	25152	5.24	ug/l		98
26) 2,2-Dichloropropane	11.13	77	15366	4.22	ug/l		98
28) Tetrahydrofuran	11.46	71	1205	4.68	ug/l	#	78
29) 1,2-Dichlorethane	11.91	62	18679	5.12	ug/l		99
30) 1-Chlorobutane	12.01	56	28179	5.36	ug/l		99
31) 1,1,1-Trichloroethane	12.06	97	19785	5.29	ug/l		96
32) 1,1-Dichloropropene	12.31	75	17770	5.46	ug/l		95
33) Carbon Tetrachloride	12.57	117	13147	6.03	ug/l		98
34) Benzene	12.62	78	56970	5.90	ug/l		100
36) Dibromomethane	13.42	174	9195	4.90	ug/l		97
37) 1,2-Dichloropropane	13.46	63	16140	5.54	ug/l		92
38) Trichloroethene	13.52	130	13520	5.04	ug/l		96
39) Bromodichloromethane	13.59	83	17730	4.82	ug/l		99
40) Methyl Methacrylate	13.74	41	10077	4.04	ug/l		96

(#) = qualifier out of range (m) = manual integration
2175.D TEST1.M Wed Oct 13 15:18:25 1999

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2175.D
Acq On : 7 Jul 1999 6:50 pm
Sample : 5
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:13 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00
Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
42) C-1,3-Dichloropropene	14.50	75	20077	4.55 ug/l		98
43) 4-Methyl-2-Pentanone	14.65	43	11636	4.24 ug/l		97
44) T-1,3-Dichloropropene	15.14	75	17793	4.20 ug/l		96
45) 1,1,2-Trichloroethane	15.40	97	12454	4.88 ug/l		97
47) Toluene	15.70	91	60698	5.07 ug/l		99
48) 1,3-Dichloropropane	15.76	76	23423	4.82 ug/l		86
49) 2-Hexanone	15.96	43	7166	3.73 ug/l	#	93
50) Dibromochloromethane	16.21	129	9149	3.92 ug/l		99
51) 1,2-Dibromoethane	16.59	107	11216	4.37 ug/l		100
52) Tetrachloroethene	16.85	166	17476	3.84 ug/l		100
53) 1,1,1,2-Tetrachloroethane	17.79	131	10975	4.33 ug/l		99
55) Chlorobenzene	17.92	112	35695	5.54 ug/l		100
56) Ethyl Benzene	18.23	91	65727	5.53 ug/l		100
57) P&M Xylene	18.54	106	49411	10.33 ug/l		100
58) Bromoform	18.74	173	4953	3.53 ug/l		98
59) Styrene	19.08	104	24626	3.11 ug/l		98
60) 1,1,2,2-Tetrachloroethane	19.19	83	11145	3.76 ug/l	#	84
61) O-Xylene	19.20	91	44543	4.40 ug/l		99
62) 1,2,3-Trichloropropane	19.42	75	12728	3.90 ug/l	#	87
63) T-1,4-Dichloro-2-Butene	19.42	75	12728	3.90 ug/l	#	33
64) Cumene	19.80	105	56825	4.59 ug/l		99
66) Bromobenzene	20.23	77	18978	3.74 ug/l		89
67) n-Propyl Benzene	20.54	91	57650	3.89 ug/l		99
68) 2-Chlorotoluene	20.72	91	30626	3.43 ug/l		98
69) 4-Chlorotoluene	20.84	91	29069	3.12 ug/l		98
70) 1,3,5-Trimethyl Benzene	21.02	105	32849	3.08 ug/l		99
71) Pentachloroethane	21.17	117	3780	6.16 ug/l		96
72) t-Butyl Benzene	21.52	119	33002	3.83 ug/l		90
73) 1,2,4-Trimethyl Benzene	21.71	105	33177	3.03 ug/l		100
74) sec-Butyl Benzene	21.89	105	48199	3.45 ug/l		98
75) 1,3-Dichlorobenzene	22.03	146	16523	2.66 ug/l		95
77) 1,4-Dichlorobenzene	22.03	146	16523	4.14 ug/l		94
78) p-Cymene	22.20	119	35982	5.05 ug/l		97
79) 1,2-Dichlorobenzene	22.76	146	13935	3.73 ug/l		96
80) n-Butyl Benzene	22.92	91	31429	4.40 ug/l		96
82) 1,2-Dibromo-3-Chloropropan	23.57	157	881	2.36 ug/l	#	63
83) Hexachloroethane	23.70	117	3843	4.38 ug/l	#	59
84) 1,24-Trichlorobenzene	25.96	180	10570	3.62 ug/l		87
85) Napthalene	26.40	128	17460	2.82 ug/l		100
86) Hexachlorobutadiene	26.49	225	9523	5.03 ug/l		94
87) 1,2,3-Trichlorobenzene	26.75	180	6877	2.76 ug/l		97

(#) = qualifier out of range (m) = manual integration
2175.D TEST1.M Wed Oct 13 15:18:26 1999

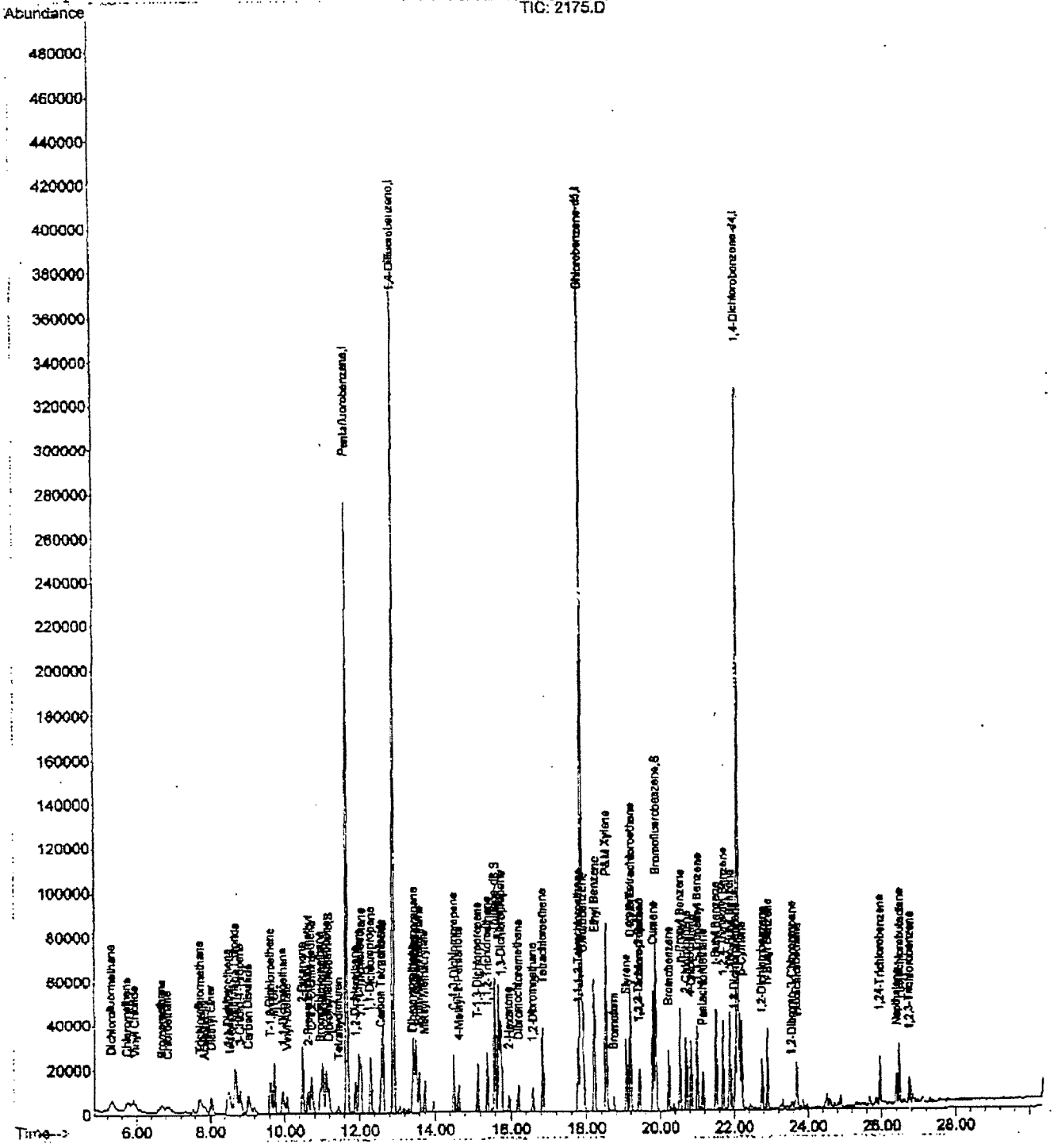
Quantitation Report

Data File : F:\MS VOA BACKUP\0707\2175.D
Acq On : 7 Jul 1999 6:50 pm
Sample : 5
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:13 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Wed Oct 13 11:03:53 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D



Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2176.D
Acq On : 7 Jul 1999 7:31 pm
Sample : 20
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:14 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	11.67	168	293036	50.00	ug/l		0.00
35) 1,4-Difluorobenzene	12.91	114	418792	50.00	ug/l		0.00
54) Chlorobenzene-d5	17.87	117	383778	50.00	ug/l		0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	369085	50.00	ug/l		0.00
System Monitoring Compounds							
27) Dibromofluoromethane	11.18	113	49293	19.64	ug/l		0.00
Spiked Amount 50.000			Recovery = 39.28%				
46) Toluene-d8	15.59	98	211199	20.37	ug/l		0.00
Spiked Amount 50.000			Recovery = 40.74%				
65) Bromofluorobenzene	19.87	95	88023	20.50	ug/l		0.00
Spiked Amount 50.000			Recovery = 41.00%				
Target Compounds							Qvalue
2) Dichlorofluormethane	5.30	85	43816	21.68	ug/l		100
3) Chloromethane	5.73	50	41660	17.87	ug/l		99
4) Vinyl Chloride	6.00	62	13105	10.78	ug/l		89
5) Bromomethane	6.69	94	46005	29.90	ug/l	#	51
6) Chloroethane	6.82	64	50040	21.58	ug/l		100
7) 3-Chloro-1-Propene	8.80	41	69891	19.49	ug/l	#	94
8) Trichlorofluormethane	7.70	101	98795	23.60	ug/l		99
9) ACROLEIN	7.84	43	21478m	25.87	ug/l		
10) Acetone	7.84	43	21478m	24.51	ug/l		
11) Diethyl Ether	8.03	59	43208	21.47	ug/l		97
12) 1,1-Dichloroethene	8.47	61	74520	21.41	ug/l		99
13) Acrylonitrile	8.52	53	23303	22.42	ug/l	#	88
14) Iodomethane	8.54	142	44818	23.39	ug/l		98
15) Methylene Chloride	8.66	49	83471	22.16	ug/l		92
16) Carbon Disulfide	9.03	76	143846	20.43	ug/l		100
17) T-1,2-Dichloroethene	9.61	61	69981	20.21	ug/l		99
18) MTBE	9.73	73	145608	20.11	ug/l		98
19) 1,1-Dichloroethane	9.95	63	93743	19.98	ug/l		99
20) Vinyl Acetate	9.73	43	29710	7.77	ug/l	#	70
21) 2-Butanone	10.49	43	34363m	22.97	ug/l		
22) 2-Propenenitrile-2-methyl	10.63	41	36887	20.29	ug/l		97
23) C-1,2-Dichloroethene	10.73	96	57919	21.06	ug/l		98
24) Bromochloromethane	10.95	130	32639	21.77	ug/l		98
25) Chloroform	11.01	83	101233	20.08	ug/l		96
26) 2,2-Dichloropropane	11.12	77	71253	18.64	ug/l		99
28) Tetrahydrofuran	11.45	71	6689	24.73	ug/l		98
29) 1,2-Dichloroethane	11.91	62	77963	20.36	ug/l		99
30) 1-Chlorobutane	12.01	56	115061	20.82	ug/l		99
31) 1,1,1-Trichloroethane	12.05	97	81510	20.75	ug/l		98
32) 1,1-Dichloropropene	12.30	75	71766	20.98	ug/l		95
33) Carbon Tetrachloride	12.57	117	56478	24.68	ug/l		99
34) Benzene	12.62	78	227035	22.39	ug/l		100
36) Dibromomethane	13.42	174	39470	21.30	ug/l		94
37) 1,2-Dichloropropane	13.46	63	62191	21.60	ug/l		90
38) Trichloroethene	13.52	130	55953	21.11	ug/l		99
39) Bromodichloromethane	13.59	83	75571	20.81	ug/l		99
40) Methyl Methacrylate	13.74	41	53891	21.89	ug/l		98

(#) = qualifier out of range (m) = manual integration
2176.D TEST1.M Wed Oct 13 15:22:24 1999

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2176.D
Acq On : 7 Jul 1999 7:31 pm
Sample : 20
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:14 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) C-1,3-Dichloropropene	14.51	75	89452	20.54 ug/l	97
43) 4-Methyl-2-Pentanone	14.65	43	60952	22.51 ug/l	99
44) T-1,3-Dichloropropene	15.14	75	84632	20.22 ug/l	96
45) 1,1,2-Trichloroethane	15.40	97	54258	21.54 ug/l	99
47) Toluene	15.70	91	254719	21.54 ug/l	100
48) 1,3-Dichloropropane	15.76	76	102306	21.31 ug/l	95
49) 2-Hexanone	15.96	43	43320	22.84 ug/l	99
50) Dibromochloromethane	16.21	129	46163	20.03 ug/l	100
51) 1,2-Dibromoethane	16.59	107	54262	21.41 ug/l	100
52) Tetrachloroethene	16.85	166	69509	15.46 ug/l	99
53) 1,1,1,2-Tetrachloroethane	17.79	131	52256	20.89 ug/l	100
55) Chlorobenzene	17.92	112	165873	22.10 ug/l	100
56) Ethyl Benzene	18.22	91	304099	21.95 ug/l	100
57) P&M Xylene	18.53	106	243871	43.72 ug/l	100
58) Bromoform	18.74	173	31926	19.52 ug/l	99
59) Styrene	19.07	104	192435	20.83 ug/l	98
60) 1,1,2,2-Tetrachloroethane	19.18	83	77817	22.52 ug/l #	85
61) O-Xylene	19.19	91	254044	21.53 ug/l	99
62) 1,2,3-Trichloropropane	19.43	75	82790	21.73 ug/l	90
63) T-1,4-Dichloro-2-Butene	19.43	75	82790	21.73 ug/l #	38
64) Cumene	19.80	105	314168	21.74 ug/l	98
66) Bromobenzene	20.23	77	125311	21.19 ug/l	91
67) n-Propyl Benzene	20.54	91	374519	21.69 ug/l	99
68) 2-Chlorotoluene	20.71	91	222343	21.37 ug/l	98
69) 4-Chlorotoluene	20.84	91	230780	21.27 ug/l	99
70) 1,3,5-Trimethyl Benzene	21.03	105	265204	21.31 ug/l	100
71) Pentachloroethane	21.17	117	30171	42.18 ug/l	97
72) t-Butyl Benzene	21.52	119	217396	21.66 ug/l	94
73) 1,2,4-Trimethyl Benzene	21.71	105	268038	20.99 ug/l	100
74) sec-Butyl Benzene	21.90	105	354446	21.74 ug/l	97
75) 1,3-Dichlorobenzene	22.03	146	152498	21.04 ug/l	94
77) 1,4-Dichlorobenzene	22.03	146	152498	23.01 ug/l	95
78) p-Cymene	22.21	119	281530	23.77 ug/l	97
79) 1,2-Dichlorobenzene	22.77	146	140925	22.71 ug/l	99
80) n-Butyl Benzene	22.91	91	282201	23.76 ug/l	97
82) 1,2-Dibromo-3-Chloropropan	23.57	157	13653	21.97 ug/l	91
83) Hexachloroethane	23.70	117	32094	22.03 ug/l #	70
84) 1,24-Trichlorobenzene	25.96	180	112601	23.21 ug/l	88
85) Napthalene	26.40	128	240823	23.43 ug/l	100
86) Hexachlorobutadiene	26.49	225	60247	25.50 ug/l	97
87) 1,2,3-Trichlorobenzene	26.76	180	94586	22.84 ug/l	99

(#) = qualifier out of range (m) = manual integration
2176.D TEST1.M Wed Oct 13 15:22:25 1999

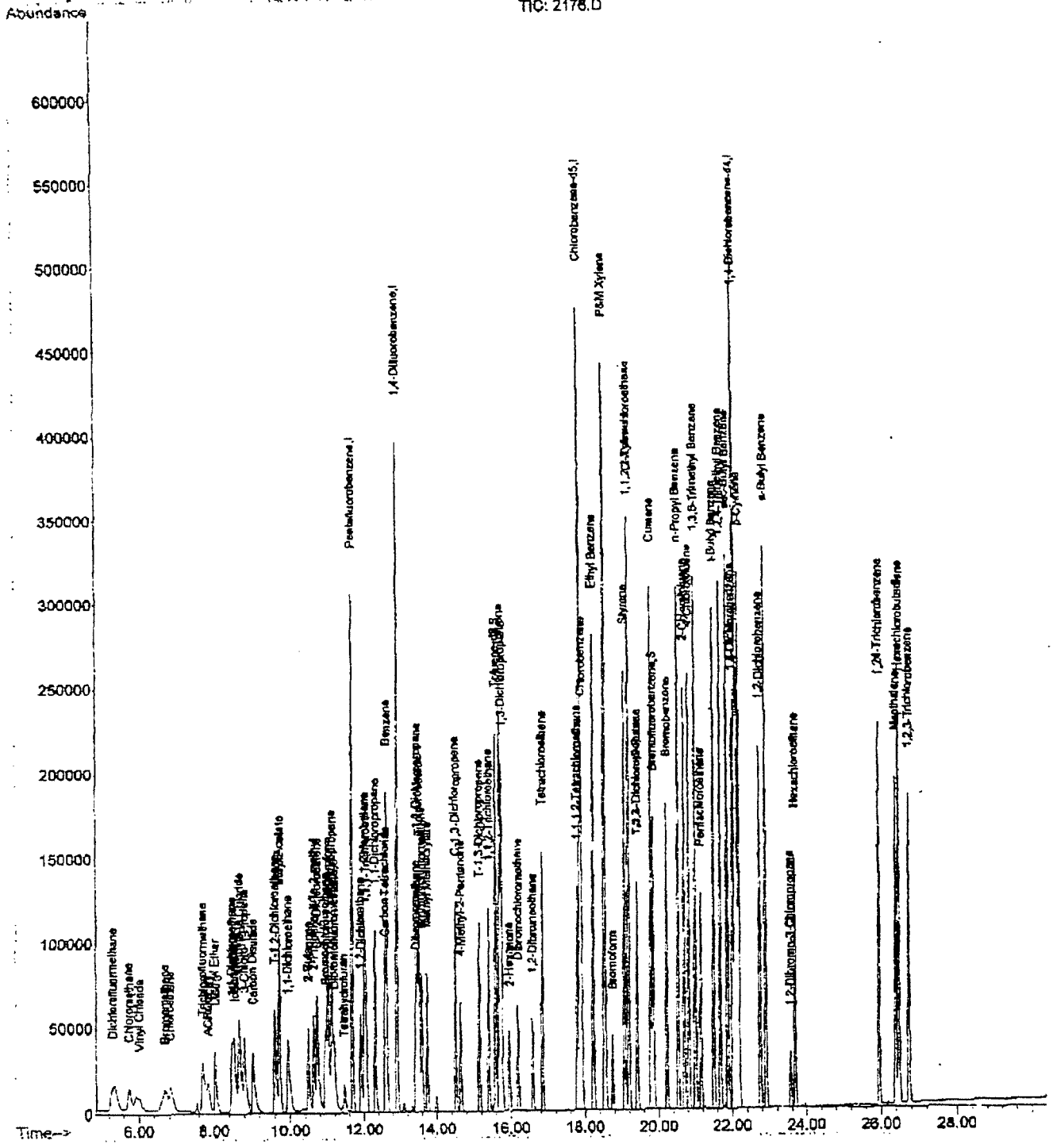
Quantitation Report

Data File : F:\MS VOA BACKUP\0707\2176.D
Acq On : 7 Jul 1999 7:31 pm
Sample : 20
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:14 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Wed Oct 13 11:03:53 1999
Response vie : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D



Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2178.D
Acq On : 7 Jul 1999 8:52 pm
Sample : 50
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:07 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	11.68	168	312606	50.00	ug/l		0.00
35) 1,4-Difluorobenzene	12.91	114	440942	50.00	ug/l		0.00
54) Chlorobenzene-d5	17.87	117	402184	50.00	ug/l		0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	404344	50.00	ug/l		0.00
System Monitoring Compounds							
27) Dibromofluoromethane	11.18	113	122724	45.85	ug/l		0.00
Spiked Amount 50.000			Recovery =	91.70%			
46) Toluene-d8	15.59	98	527809	48.35	ug/l		0.00
Spiked Amount 50.000			Recovery =	96.70%			
65) Bromofluorobenzene	19.87	95	217001	48.23	ug/l		0.00
Spiked Amount 50.000			Recovery =	96.46%			
Target Compounds							Qvalue
2) Dichlorofluormethane	5.31	85	230834	107.07	ug/l		100
3) Chloromethane	5.73	50	110225	44.32	ug/l		98
4) Vinyl Chloride	5.93	62	38307m	29.53	ug/l		
5) Bromomethane	6.68	94	117802	71.78	ug/l		93
6) Chloroethane	6.85	64	126526	51.15	ug/l	#	64
7) 3-Chloro-1-Propene	8.81	41	173612	45.37	ug/l		94
8) Trichlorofluormethane	7.72	101	241155	54.01	ug/l		100
9) ACROLEIN	7.86	43	41419	46.76	ug/l		95
10) Acetone	7.86	43	41419	44.31	ug/l		95
11) Diethyl Ether	8.04	59	96947	45.15	ug/l		98
12) 1,1-Dichloroethene	8.48	61	172326	46.42	ug/l		99
13) Acrylonitrile	8.53	53	48858	44.07	ug/l		88
14) Iodomethane	8.54	142	129553	63.37	ug/l		98
15) Methylene Chloride	8.67	49	185505	46.16	ug/l		93
16) Carbon Disulfide	9.03	76	354056	47.14	ug/l		98
17) T-1,2-Dichloroethene	9.61	61	172336	46.66	ug/l		99
18) MTBE	9.73	73	359854	46.58	ug/l		98
19) 1,1-Dichloroethane	9.96	63	232025	46.37	ug/l		98
20) Vinyl Acetate	10.08	43	206989	50.77	ug/l		98
21) 2-Butanone	10.49	43	76186m	47.73	ug/l		
22) 2-Propenenitrile-2-methyl	10.63	41	88082	45.42	ug/l		98
23) C-1,2-Dichloroethene	10.73	96	145378	49.56	ug/l		100
24) Bromochloromethane	10.95	130	81006	50.66	ug/l		100
25) Chloroform	11.01	83	249902	46.47	ug/l		96
26) 2,2-Dichloropropane	11.12	77	176416	43.26	ug/l		99
28) Tetrahydrofuran	11.45	71	14225	49.30	ug/l		95
29) 1,2-Dichlorethane	11.91	62	187966	46.02	ug/l		100
30) 1-Chlorobutane	12.01	56	286849	48.66	ug/l		100
31) 1,1,1-Trichloroethane	12.05	97	205992	49.16	ug/l		99
32) 1,1-Dichloropropene	12.30	75	179980	49.32	ug/l		94
33) Carbon Tetrachloride	12.57	117	147019	60.24	ug/l		99
34) Benzene	12.62	78	557301	51.53	ug/l		100
36) Dibromomethane	13.43	174	97464	49.96	ug/l		95
37) 1,2-Dichloropropane	13.46	63	154738	51.04	ug/l		93
38) Trichloroethene	13.52	130	139191	49.88	ug/l		100
39) Bromodichloromethane	13.59	83	197151	51.55	ug/l		100
40) Methyl Methacrylate	13.74	41	130672	50.41	ug/l		98

(#) = qualifier out of range (m) = manual integration
2178.D TEST1.M Wed Oct 13 15:26:57 1999

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2178.D
Acq On : 7 Jul 1999 8:52 pm
Sample : 50
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:07 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41) Chloroiodomethane	14.12	176	356	10.28 ug/l	#	35
42) C-1,3-Dichloropropene	14.51	75	231125	50.40 ug/l		96
43) 4-Methyl-2-Pentanone	14.65	43	141425	49.60 ug/l		99
44) T-1,3-Dichloropropene	15.14	75	220822	50.11 ug/l		96
45) 1,1,2-Trichloroethane	15.40	97	134112	50.56 ug/l		99
47) Toluene	15.70	91	632531	50.79 ug/l		99
48) 1,3-Dichloropropane	15.76	76	255035	50.46 ug/l		95
49) 2-Hexanone	15.96	43	98593	49.38 ug/l		99
50) Dibromochloromethane	16.20	129	126129	51.98 ug/l		99
51) 1,2-Dibromoethane	16.59	107	133921	50.19 ug/l		99
52) Tetrachloroethene	16.85	166	168895	35.67 ug/l		100
53) 1,1,1,2-Tetrachloroethane	17.79	131	136645	51.89 ug/l		98
55) Chlorobenzene	17.92	112	403654	51.31 ug/l		100
56) Ethyl Benzene	18.22	91	752648	51.85 ug/l		100
57) P&M Xylene	18.53	106	600584	102.74 ug/l		100
58) Bromoform	18.75	173	89947	52.48 ug/l		99
59) Styrene	19.07	104	491209	50.74 ug/l		99
60) 1,1,2,2-Tetrachloroethane	19.18	83	186299	51.44 ug/l	#	85
61) O-Xylene	19.20	91	630490	50.98 ug/l		99
62) 1,2,3-Trichloropropane	19.42	75	201875	50.57 ug/l		93
63) T-1,4-Dichloro-2-Butene	19.42	75	201875	50.57 ug/l	#	38
64) Cumene	19.80	105	775985	51.25 ug/l		99
66) Bromobenzene	20.23	77	314170	50.69 ug/l		92
67) n-Propyl Benzene	20.54	91	920523	50.87 ug/l		100
68) 2-Chlorotoluene	20.71	91	553313	50.76 ug/l		97
69) 4-Chlorotoluene	20.84	91	569628	50.09 ug/l		99
70) 1,3,5-Trimethyl Benzene	21.03	105	652565	50.04 ug/l		100
71) Pentachloroethane	21.17	117	80765	107.73 ug/l		97
72) t-Butyl Benzene	21.52	119	530359	50.43 ug/l		95
73) 1,2,4-Trimethyl Benzene	21.70	105	664268	49.64 ug/l		99
74) sec-Butyl Benzene	21.90	105	854424	50.00 ug/l		97
75) 1,3-Dichlorobenzene	22.03	146	371509	48.92 ug/l		94
77) 1,4-Dichlorobenzene	22.03	146	371509	51.16 ug/l		95
78) p-Cymene	22.20	119	672878	51.86 ug/l		98
79) 1,2-Dichlorobenzene	22.76	146	343697	50.56 ug/l		100
80) n-Butyl Benzene	22.91	91	672473	51.69 ug/l		98
82) 1,2-Dibromo-3-Chloropropan	23.58	157	35189	51.70 ug/l		98
83) Hexachloroethane	23.70	117	87714	54.97 ug/l	#	80
84) 1,24-Trichlorobenzene	25.96	180	265365	49.92 ug/l		88
85) Napthalene	26.40	128	554326	49.23 ug/l		100
86) Hexachlorobutadiene	26.48	225	172288	49.98 ug/l		96
87) 1,2,3-Trichlorobenzene	26.75	180	221395	48.79 ug/l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

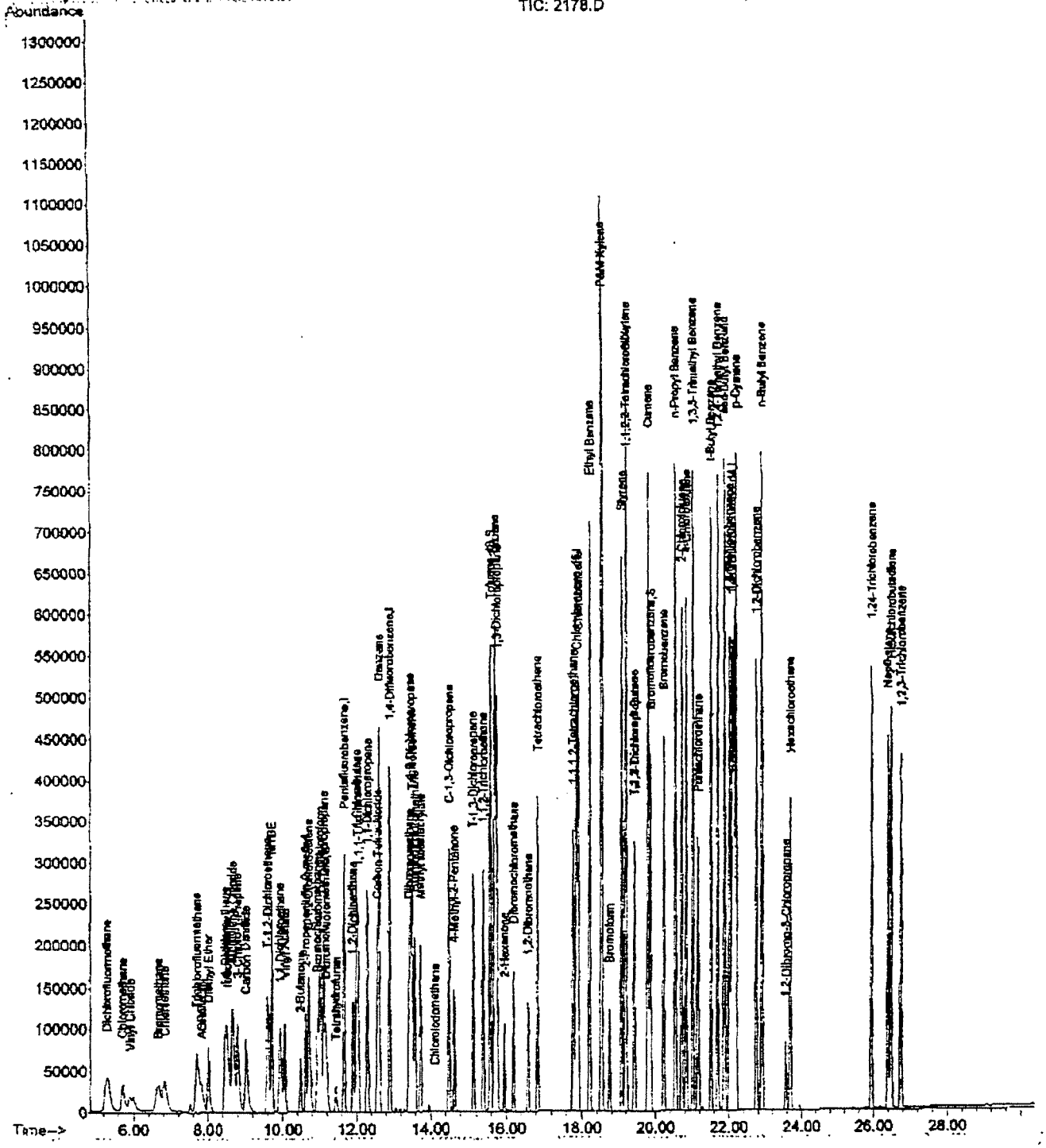
Data File : F:\MS VOA BACKUP\0707\2178.D
Acq On : 7 Jul 1999 8:52 pm
Sample : 50
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:07 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Wed Oct 13 11:03:53 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D

TIC: 2178.D



Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2180.D Vial: 100
Acq On : 7 Jul 1999 10:13 pm Operator: JSD
Sample : 100 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 19 16:08 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	318195	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	456153	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	420887	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	458641	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	240534	88.28	ug/l	0.01
Spiked Amount 50.000			Recovery =	176.56%		
46) Toluene-d8	15.59	98	1007511	89.22	ug/l	0.00
Spiked Amount 50.000			Recovery =	178.44%		
65) Bromofluorobenzene	19.87	95	413656	87.85	ug/l	0.00
Spiked Amount 50.000			Recovery =	175.70%		
Target Compounds						Qvalue
2) Dichlorofluormethane	5.32	85	405451	184.77	ug/l	100
3) Chloromethane	5.74	50	176801	69.84	ug/l	96
4) Vinyl Chloride	5.94	62	71401m	54.07	ug/l	
5) Bromomethane	6.70	94	215009	128.70	ug/l	93
6) Chloroethane	6.85	64	227686	90.42	ug/l	100
7) 3-Chloro-1-Propene	8.82	41	358525	92.05	ug/l	93
8) Trichlorofluormethane	7.72	101	443722	97.63	ug/l	100
9) ACROLEIN	7.86	43	82380	91.36	ug/l	97
10) Acetone	7.86	43	82380	86.58	ug/l	97
11) Diethyl Ether	8.04	59	200809	91.89	ug/l	99
12) 1,1-Dichloroethene	8.48	61	345151	91.34	ug/l	99
13) Acrylonitrile	8.53	53	104053	92.21	ug/l	89
14) Iodomethane	8.56	142	268030	128.81	ug/l	98
15) Methylene Chloride	8.68	49	357196	87.33	ug/l	94
16) Carbon Disulfide	9.04	76	712449	93.19	ug/l	99
17) T-1,2-Dichloroethene	9.61	61	349627	93.01	ug/l	99
18) MTBE	9.74	73	751574	95.58	ug/l	98
19) 1,1-Dichloroethane	9.96	63	468487	91.98	ug/l	99
20) Vinyl Acetate	10.08	43	475729	114.65	ug/l	98
21) 2-Butanone	10.49	43	143594m	88.38	ug/l	
22) 2-Propenenitrile-2-methyl	10.64	41	186222	94.33	ug/l	97
23) C-1,2-Dichloroethene	10.73	96	297069	99.49	ug/l	99
24) Bromochloromethane	10.95	130	166080	102.04	ug/l	100
25) Chloroform	11.02	83	506501	92.53	ug/l	95
26) 2,2-Dichloropropane	11.12	77	368130	88.69	ug/l	100
28) Tetrahydrofuran	11.46	71	31026	105.63	ug/l	98
29) 1,2-Dichlorethane	11.91	62	383779	92.32	ug/l	98
30) 1-Chlorobutane	12.01	56	573554	95.59	ug/l	100
31) 1,1,1-Trichloroethane	12.05	97	416038	97.55	ug/l	98
32) 1,1-Dichloropropene	12.30	75	362031	97.47	ug/l	93
33) Carbon Tetrachloride	12.58	117	305040	122.78	ug/l	99
34) Benzene	12.62	78	1114882	101.28	ug/l	100
36) Dibromomethane	13.43	174	199665	98.93	ug/l	95
37) 1,2-Dichloropropane	13.46	63	314390	100.25	ug/l	91
38) Trichloroethene	13.52	130	274110	94.96	ug/l	99
39) Bromodichloromethane	13.59	83	410798	103.83	ug/l	100
40) Methyl Methacrylate	13.74	41	273630	102.04	ug/l	97

(#) = qualifier out of range (m) = manual integration
2180.D TEST1.M Wed Oct 13 15:28:53 1999

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2180.D
Acq On : 7 Jul 1999 10:13 pm
Sample : 100
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:08 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41) Chloroiodomethane	14.14	176	2548	71.10 ug/l	#	81
42) C-1,3-Dichloropropene	14.51	75	479016	100.98 ug/l		96
43) 4-Methyl-2-Pentanone	14.64	43	293859	99.63 ug/l		98
44) T-1,3-Dichloropropene	15.14	75	465252	102.05 ug/l		95
45) 1,1,2-Trichloroethane	15.40	97	274723	100.12 ug/l		99
47) Toluene	15.70	91	1242366	96.43 ug/l		98
48) 1,3-Dichloropropane	15.76	76	518369	99.14 ug/l		95
49) 2-Hexanone	15.96	43	207739	100.57 ug/l		99
50) Dibromochloromethane	16.20	129	271737	108.24 ug/l		100
51) 1,2-Dibromoethane	16.59	107	278548	100.90 ug/l		99
52) Tetrachloroethene	16.85	166	339207	69.25 ug/l		100
53) 1,1,1,2-Tetrachloroethane	17.80	131	281062	103.18 ug/l		99
55) Chlorobenzene	17.92	112	791438	96.13 ug/l		100
56) Ethyl Benzene	18.23	91	1473866	97.02 ug/l		100
57) P&M Xylene	18.53	106	1178429	192.63 ug/l		100
58) Bromoform	18.75	173	197988	110.38 ug/l		99
59) Styrene	19.08	104	979551	96.69 ug/l		99
60) 1,1,2,2-Tetrachloroethane	19.18	83	383834	101.28 ug/l	#	85
61) O-Xylene	19.20	91	1216659	94.01 ug/l		99
62) 1,2,3-Trichloropropane	19.43	75	418356	100.15 ug/l		94
63) T-1,4-Dichloro-2-Butene	19.43	75	418356	100.15 ug/l	#	39
64) Cumene	19.80	105	1508233	95.18 ug/l		99
66) Bromobenzene	20.24	77	625797	96.47 ug/l		93
67) n-Propyl Benzene	20.54	91	1768266	93.38 ug/l		100
68) 2-Chlorotoluene	20.72	91	1069981	93.79 ug/l		97
69) 4-Chlorotoluene	20.84	91	1103384	92.71 ug/l		98
70) 1,3,5-Trimethyl Benzene	21.03	105	1264515	92.66 ug/l		100
71) Pentachloroethane	21.17	117	163601	208.53 ug/l		97
72) t-Butyl Benzene	21.52	119	1027231	93.33 ug/l		97
73) 1,2,4-Trimethyl Benzene	21.71	105	1281925	91.54 ug/l		100
74) sec-Butyl Benzene	21.90	105	1639207	91.66 ug/l		98
75) 1,3-Dichlorobenzene	22.03	146	715411	90.01 ug/l		95
77) 1,4-Dichlorobenzene	22.03	146	715411	86.85 ug/l		96
78) p-Cymene	22.21	119	1285914	87.38 ug/l		98
79) 1,2-Dichlorobenzene	22.77	146	681301	88.35 ug/l		100
80) n-Butyl Benzene	22.91	91	1303294	88.32 ug/l		98
82) 1,2-Dibromo-3-Chloropropan	23.58	157	78807	102.07 ug/l		99
83) Hexachloroethane	23.70	117	190309	105.15 ug/l	#	85
84) 1,24-Trichlorobenzene	25.96	180	538111	89.25 ug/l		88
85) Napthalene	26.40	128	1192616	93.38 ug/l		100
86) Hexachlorobutadiene	26.49	225	348759	89.20 ug/l		97
87) 1,2,3-Trichlorobenzene	26.75	180	454506	88.30 ug/l		99

(#) = qualifier out of range (m) = manual integration
2180.D TEST1.M Wed Oct 13 15:28:55 1999

Quantitation Report

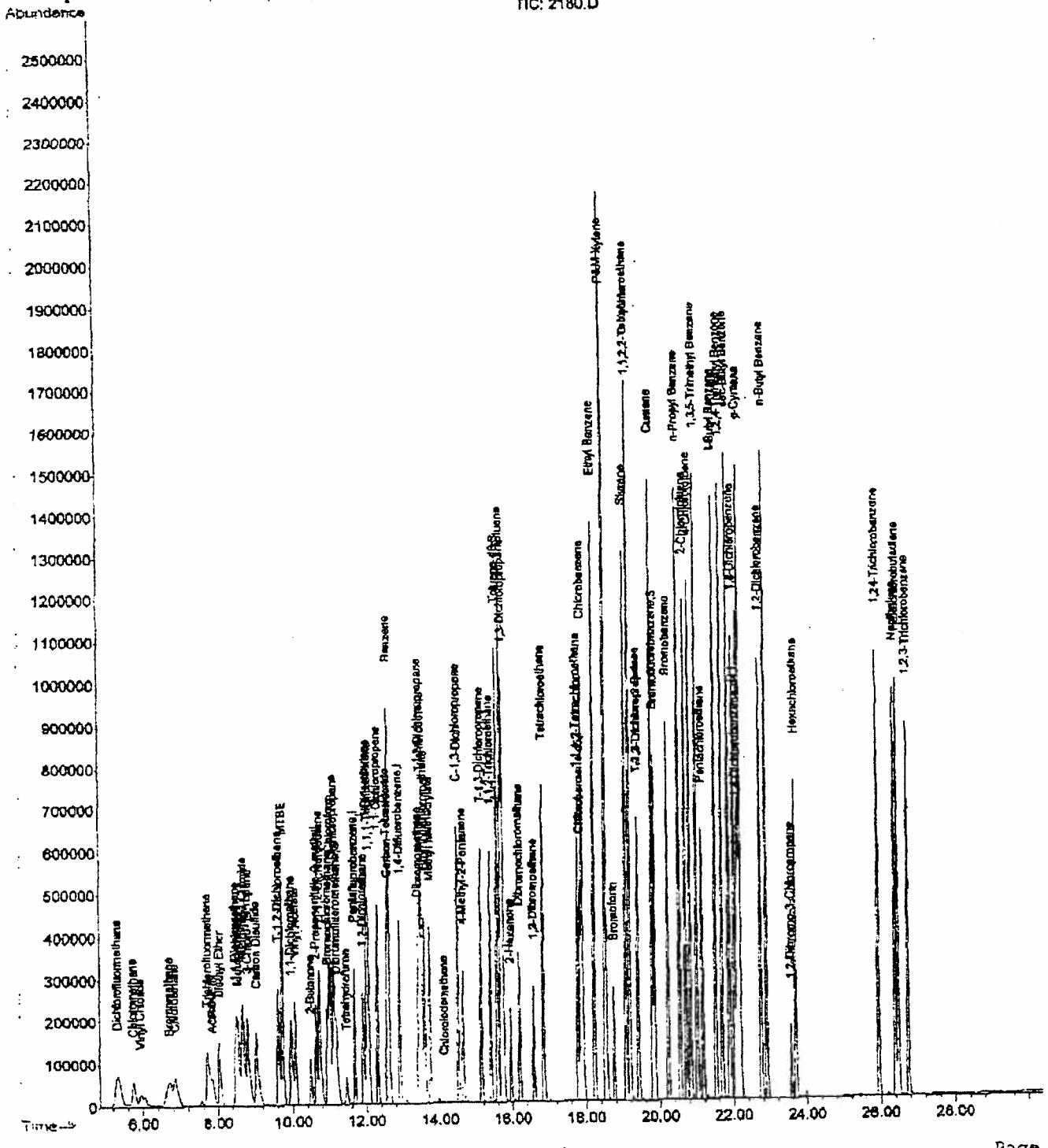
Data File : F:\MS VOA BACKUP\0707\2180.D
Acq On : 7 Jul 1999 10:13 pm
Sample : 100
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 16:08 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Wed Oct 13 11:03:53 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D

TIC: 2180.D



Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2183.D
Acq On : 8 Jul 1999 12:16 am
Sample : 200
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 15:56 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	371181	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	535002	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	482480	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	577110	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	552332	173.78	ug/l	0.01
Spiked Amount 50.000			Recovery = 347.56%			
46) Toluene-d8	15.59	98	2299014	173.59	ug/l	0.00
Spiked Amount 50.000			Recovery = 347.18%			
65) Bromofluorobenzene	19.88	95	934784	173.19	ug/l	0.00
Spiked Amount 50.000			Recovery = 346.38%			
Target Compounds						Qvalue
2) Dichlorofluormethane	5.32	85	965670	377.24	ug/l	100
3) Chloromethane	5.74	50	416682	141.11	ug/l	97
4) Vinyl Chloride	5.94	62	148126	96.16	ug/l	97
5) Bromomethane	6.69	94	539741	276.96	ug/l	94
6) Chloroethane	6.86	64	554618	188.82	ug/l	98
7) 3-Chloro-1-Propene	8.82	41	811762	178.67	ug/l	92
8) Trichlorofluormethane	7.73	101	1097346	206.98	ug/l	100
9) ACROLEIN	7.86	43	155007	147.37	ug/l	95
10) Acetone	7.86	43	155007	139.65	ug/l	95
11) Diethyl Ether	8.05	59	444181	174.24	ug/l	99
12) 1,1-Dichloroethene	8.49	61	792892	179.88	ug/l	99
13) Acrylonitrile	8.53	53	220519	167.53	ug/l	90
14) Iodomethane	8.56	142	631572	260.19	ug/l	98
15) Methylene Chloride	8.68	49	783553	164.22	ug/l	94
16) Carbon Disulfide	9.05	76	1602878	179.73	ug/l	100
17) T-1,2-Dichloroethene	9.62	61	791706	180.55	ug/l	99
18) MTBE	9.73	73	1622551	176.89	ug/l	98
19) 1,1-Dichloroethane	9.97	63	1053916	177.38	ug/l	99
20) Vinyl Acetate	10.08	43	956051	197.51	ug/l	99
21) 2-Butanone	10.49	43	299258m	157.90	ug/l	
22) 2-Propenenitrile-2-methyl	10.64	41	387725	168.36	ug/l	97
23) C-1,2-Dichloroethene	10.73	96	663880	190.59	ug/l	99
24) Bromochloromethane	10.96	130	361555	190.42	ug/l	100
25) Chloroform	11.02	83	1124045	176.04	ug/l	95
26) 2,2-Dichloropropane	11.13	77	862109	178.05	ug/l	99
28) Tetrahydrofuran	11.45	71	60628	176.95	ug/l	96
29) 1,2-Dichlorethane	11.92	62	850152	175.32	ug/l	98
30) 1-Chlorobutane	12.02	56	1311583	187.39	ug/l	99
31) 1,1,1-Trichloroethane	12.06	97	961368	193.23	ug/l	98
32) 1,1-Dichloropropene	12.31	75	832249	192.09	ug/l	92
33) Carbon Tetrachloride	12.58	117	729107	251.58	ug/l	99
34) Benzene	12.62	78	2477283	192.92	ug/l	100
36) Dibromomethane	13.43	174	434758	183.67	ug/l	95
37) 1,2-Dichloropropane	13.47	63	717814	195.15	ug/l	94
38) Trichloroethene	13.52	130	618602	182.72	ug/l	99
39) Bromodichloromethane	13.60	83	934243	201.34	ug/l	99
40) Methyl Methacrylate	13.74	41	557277	177.18	ug/l	95

(#) = qualifier out of range (m) = manual integration
2183.D TEST1.M Wed Oct 13 15:37:15 1999

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0707\2183.D
Acq On : 8 Jul 1999 12:16 am
Sample : 200
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 19 15:56 1999

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Jul 19 15:24:46 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D
DataAcq Meth : TEST1

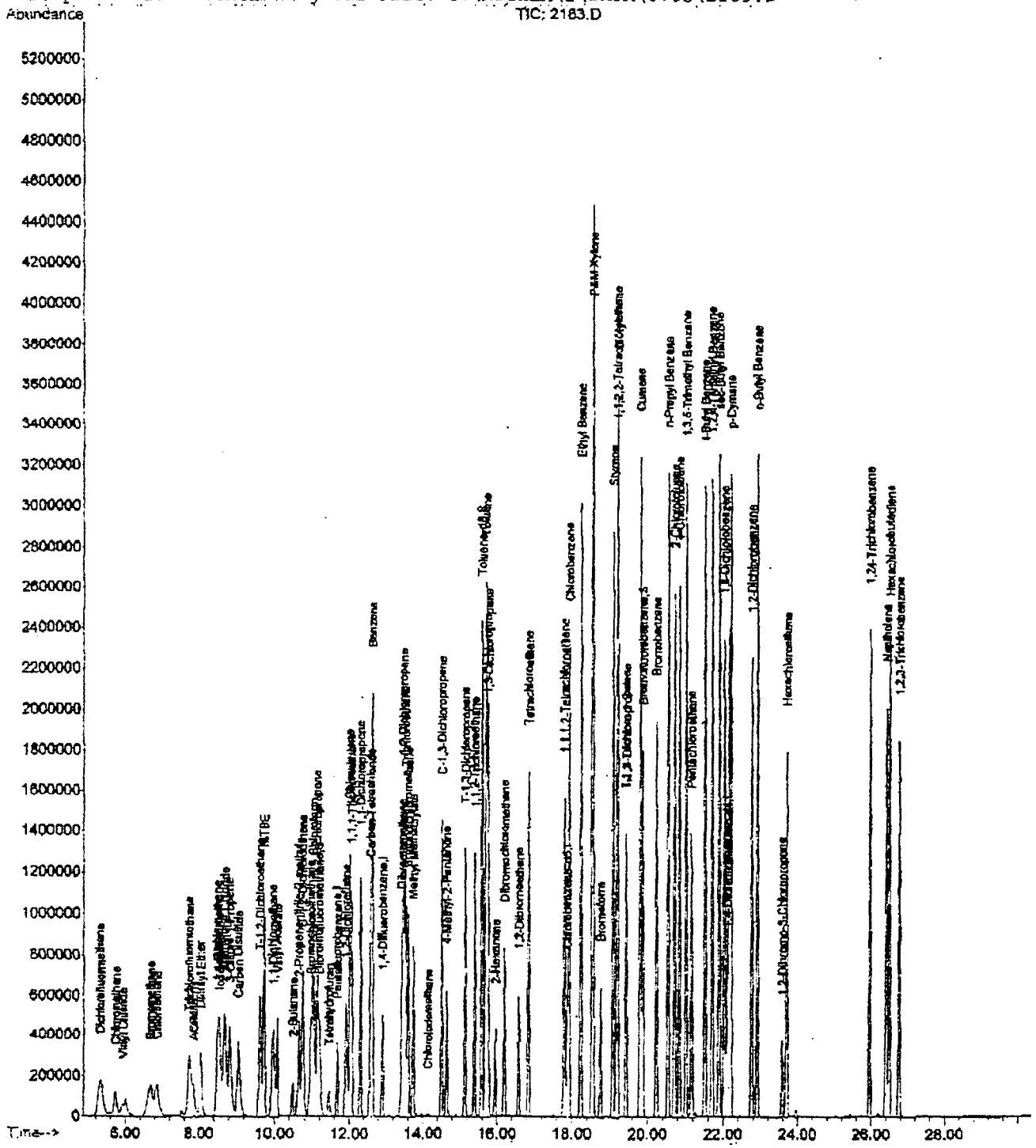
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41) Chloroiodomethane	14.13	176	8733	207.76 ug/l		94
42) C-1,3-Dichloropropene	14.51	75	1088731	195.68 ug/l		95
43) 4-Methyl-2-Pentanone	14.65	43	592938	171.41 ug/l		99
44) T-1,3-Dichloropropene	15.14	75	1040148	194.53 ug/l		95
45) 1,1,2-Trichloroethane	15.40	97	595547	185.05 ug/l		99
47) Toluene	15.70	91	2674670	177.01 ug/l		97
48) 1,3-Dichloropropane	15.77	76	1101635	179.63 ug/l		92
49) 2-Hexanone	15.96	43	405821	167.52 ug/l		98
50) Dibromochloromethane	16.21	129	624602	212.14 ug/l		100
51) 1,2-Dibromoethane	16.60	107	606641	187.37 ug/l		100
52) Tetrachloroethene	16.85	166	768560	133.77 ug/l		100
53) 1,1,1,2-Tetrachloroethane	17.79	131	650831	203.71 ug/l		99
55) Chlorobenzene	17.92	112	1737081	184.06 ug/l		100
56) Ethyl Benzene	18.23	91	3186144	182.95 ug/l		100
57) P&M Xylene	18.54	106	2515435	358.69 ug/l		100
58) Bromoform	18.75	173	463366	225.35 ug/l		99
59) Styrene	19.08	104	2113691	182.01 ug/l		99
60) 1,1,2,2-Tetrachloroethane	19.18	83	781537	179.89 ug/l	#	85
61) O-Xylene	19.20	91	2587944	174.44 ug/l		98
62) 1,2,3-Trichloropropane	19.43	75	870905	181.86 ug/l		95
63) T-1,4-Dichloro-2-Butene	19.43	75	870905	181.86 ug/l	#	39
64) Cumene	19.80	105	3241448	178.44 ug/l		100
66) Bromobenzene	20.23	77	1368698	184.06 ug/l		94
67) n-Propyl Benzene	20.54	91	3784405	174.34 ug/l		99
68) 2-Chlorotoluene	20.72	91	2311752	176.77 ug/l		98
69) 4-Chlorotoluene	20.84	91	2366572	173.47 ug/l		98
70) 1,3,5-Trimethyl Benzene	21.03	105	2692899	172.14 ug/l		99
71) Pentachloroethane	21.17	117	368291	409.50 ug/l		97
72) t-Butyl Benzene	21.52	119	2240463	177.58 ug/l		99
73) 1,2,4-Trimethyl Benzene	21.71	105	2734172	170.32 ug/l		100
74) sec-Butyl Benzene	21.90	105	3494359	170.46 ug/l		99
75) 1,3-Dichlorobenzene	22.04	146	1513237	166.08 ug/l		96
77) 1,4-Dichlorobenzene	22.04	146	1513237	146.00 ug/l		97
78) p-Cymene	22.21	119	2678869	144.67 ug/l		98
79) 1,2-Dichlorobenzene	22.77	146	1433141	147.70 ug/l		99
80) n-Butyl Benzene	22.92	91	2816716	151.69 ug/l		98
82) 1,2-Dibromo-3-Chloropropan	23.57	157	167791	172.72 ug/l		96
83) Hexachloroethane	23.70	117	480796	211.11 ug/l		91
84) 1,24-Trichlorobenzene	25.96	180	1185450	156.26 ug/l		88
85) Napthalene	26.40	128	2438735	151.74 ug/l		100
86) Hexachlorobutadiene	26.49	225	817065	166.08 ug/l		96
87) 1,2,3-Trichlorobenzene	26.76	180	971187	149.96 ug/l		99

(#) = qualifier out of range (m) = manual integration
2183.D TEST1.M Wed Oct 13 15:37:17 1999

Quantitation Report

Data File : F:\MS VOA BACKUP\0707\2183.D Vial: 100
Acq On : 8 Jul 1999 12:16 am Operator: JSD
Sample : 200 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 19 15:56 1999 Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Wed Oct 13 11:03:53 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0702\2109.D



Evaluate Continuing Calibration Report

Data File : F:\MS VOA BACKUP\0823A\2699.D
Acq On : 23 Aug 1999 6:04 pm
Sample : VSTD050
Misc :
MS Integration Params: rteint.p

Vial: 2
Operator:
Inst : GC/MS F
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 19 17:42:56 1999
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	73	-0.05
2		Dichlorofluormethane	0.651	0.583	10.4	58	-0.14
3		Chloromethane	0.338	0.383	-13.3	79	0.00
4		Vinyl Chloride	0.120	0.165	-37.5#	98	-0.12
5		Bromomethane	0.376	0.498	-32.4#	97	6.18#
6		Chloroethane	0.349	0.316	9.5	57	-0.11
7		3-Chloro-1-Propene	0.575	0.439	23.7	58	-0.08
8		Trichlorofluormethane	0.780	0.609	21.9	58	-0.11
9		ACROLEIN	0.152	0.141	7.2	78	-0.01
10		Acetone	0.151	0.141	6.6	78	-0.07
11		Diethyl Ether	0.326	0.301	7.7	71	-0.08
12		1,1-Dichloroethene	0.577	0.348	39.7#	46#	-0.10
13		Acrylonitrile	0.166	0.185	-11.4	86	-0.06
14		Iodomethane	0.382	0.165	56.8#	29#	-0.07
15		Methylene Chloride	0.659	0.563	14.6	69	-0.06
16		Carbon Disulfide	1.159	0.934	19.4	60	0.00
17		T-1,2-Dichloroethene	0.571	0.472	17.3	63	-0.06
18		MTBE	1.183	1.171	1.0	74	-0.05
19		1,1-Dichloroethane	0.765	0.682	10.8	67	-0.05
20		Vinyl Acetate	0.568	0.677	-19.2	75	-0.04
21		2-Butanone	0.272	0.269	1.1	81	-0.04
22		2-Propenenitrile-2-methyl	0.285	0.303	-6.3	79	-0.03
23		C-1,2-Dichloroethene	0.481	0.426	11.4	67	-0.04
24		Bromochloromethane	0.265	0.242	8.7	68	-0.04
25		Chloroform	0.823	0.768	6.7	70	-0.03
26		2,2-Dichloropropane	0.576	0.484	16.0	63	-0.03
27	S	Dibromofluoromethane	0.412	0.409	0.7	76	-0.03
28		Tetrahydrofuran	0.047	0.052	-10.6	84	-0.03
29		1,2-Dichloroethane	0.622	0.619	0.5	75	-0.02
30		1-Chlorobutane	0.939	0.802	14.6	64	-0.03
31		1,1,1-Trichloroethane	0.673	0.550	18.3	61	-0.02
32		1,1-Dichloropropene	0.591	0.505	14.6	64	-0.03
33		Carbon Tetrachloride	0.479	0.405	15.4	63	-0.03
34		Benzene	1.836	1.666	9.2	68	-0.03
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	72	-0.03
36		Dibromomethane	0.219	0.205	6.4	67	-0.02
37		1,2-Dichloropropane	0.357	0.317	11.2	66	-0.02
38		Trichloroethene	0.312	0.273	12.5	63	-0.02
39		Bromodichloromethane	0.441	0.366	17.0	59	0.00
40		Methyl Methacrylate	0.283	0.296	-4.6	72	-0.02
41		Chloroiodomethane	0.003	0.098	-3166.7#	8814#	0.00
42		C-1,3-Dichloropropene	0.513	0.435	15.2	60	-0.02
43		4-Methyl-2-Pentanone	0.312	0.323	-3.5	73	0.00
44		T-1,3-Dichloropropene	0.484	0.404	16.5	58	0.00
45		1,1,2-Trichloroethane	0.300	0.262	12.7	62	0.00
46	S	Toluene-d8	1.206	1.175	2.6	71	-0.02
47		Toluene	1.400	1.225	12.5	62	-0.02
48		1,3-Dichloropropane	0.565	0.517	8.5	65	0.00
49		2-Hexanone	0.214	0.224	-4.7	73	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : F:\MS VOA BACKUP\0823A\2699.D
Acq On : 23 Aug 1999 6:04 pm
Sample : VSTD050
Misc :
MS Integration Params: rteint.p

Vial: 2
Operator:
Inst : GC/MS F
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 19 17:42:56 1999
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50		Dibromochloromethane	0.273	0.224	17.9	57	0.00
51		1,2-Dibromoethane	0.296	0.270	8.8	64	0.00
52		Tetrachloroethene	0.388	0.325	16.2	61	0.00
53		1,1,1,2-Tetrachloroethane	0.299	0.239	20.1	56	0.00
54	I	Chlorobenzene-d5	1.000	1.000	0.0	69	0.00
55		Chlorobenzene	1.002	0.901	10.1	62	0.00
56		Ethyl Benzene	1.850	1.645	11.1	60	0.00
57		P&M Xylene	1.497	1.332	8.6	61	0.00
58		Bromoform	0.211	0.191	9.5	58	0.00
59		Styrene	1.096	1.089	0.6	61	-0.02
60		1,1,2,2-Tetrachloroethane	0.434	0.464	-6.9	69	0.00
61		O-Xylene	1.472	1.404	4.6	61	0.00
62		1,2,3-Trichloropropane	N/A	1.00	0.0	62	-7.33#
63		T-1,4-Dichloro-2-Butene	0.475	0.496	-4.4	68	0.00
64		Cumene	1.835	1.675	8.7	59	0.00
65	S	Bromofluorobenzene	0.630	0.569	9.7	72	0.00
66		Bromobenzene	0.725	0.699	3.6	61	0.00
67		n-Propyl Benzene	2.108	1.994	5.4	60	0.00
68		2-Chlorotoluene	1.245	1.219	2.1	61	0.00
69		4-Chlorotoluene	1.268	1.272	-0.3	62	0.12
70		1,3,5-Trimethyl Benzene	1.449	1.443	0.4	61	0.00
71		Pentachloroethane	0.179	0.164	8.4	56	0.00
72		t-Butyl Benzene	1.224	1.138	7.0	59	0.00
73		1,2,4-Trimethyl Benzene	1.469	1.488	-1.3	62	0.00
74		sec-Butyl Benzene	1.931	1.826	5.4	59	0.00
75		1,3-Dichlorobenzene	0.811	0.846	-4.3	63	0.00
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00
77		1,4-Dichlorobenzene	0.826	0.792	4.1	63	0.00
78		p-Cymene	1.551	1.393	10.2	61	0.00
79		1,2-Dichlorobenzene	0.759	0.749	1.3	64	0.00
80		n-Butyl Benzene	1.526	1.392	8.8	61	0.00
81		unk3	N/A	1.00	0.0	77	-4.66#
82		1,2-Dibromo-3-Chloropropane	0.076	0.087	-14.5	73	0.00
83		Hexachloroethane	0.205	0.159	22.4	53	0.00
84		1,24-Trichlorobenzene	0.599	0.611	-2.0	68	0.00
85		Napthalene	1.229	1.446	-17.7	77	0.00
86		Hexachlorobutadiene	0.426	0.385	9.6	66	0.00
87		1,2,3-Trichlorobenzene	0.483	0.534	-10.6	71	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0823A\2699.D Vial: 2
Acq On : 23 Aug 1999 6:04 pm Operator:
Sample : VSTD050 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 19:21 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Fri Aug 20 16:49:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0820\2659.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	11.68	168	228420	50.00	ug/l		0.00
35) 1,4-Difluorobenzene	12.91	114	319632	50.00	ug/l		0.00
54) Chlorobenzene-d5	17.87	117	275499	50.00	ug/l		0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	294432	50.00	ug/l		0.00
System Monitoring Compounds							
27) Dibromofluoromethane	11.18	113	93514	48.18	ug/l		0.00
Spiked Amount 50.000			Recovery = 96.36%				
46) Toluene-d8	15.59	98	375501	46.94	ug/l		0.00
Spiked Amount 50.000			Recovery = 93.88%				
65) Bromofluorobenzene	19.87	95	156676	49.20	ug/l		0.00
Spiked Amount 50.000			Recovery = 98.40%				
Target Compounds							Qvalue
2) Dichlorofluormethane	5.22	85	133089	46.52	ug/l		100
3) Chloromethane	5.80	50	87421m	49.76	ug/l		
4) Vinyl Chloride	5.90	62	37690m	38.96	ug/l		
5) Bromomethane	12.91	94	113742m	64.28	ug/l		
6) Chloroethane	6.81	64	72261	48.43	ug/l		99
7) 3-Chloro-1-Propene	8.79	41	100388	51.93	ug/l	#	93
8) Trichlorofluormethane	7.69	101	139106	47.27	ug/l	#	60
9) ACROLEIN	7.85	43	32169	53.82	ug/l		95
10) Acetone	7.85	43	32169	53.82	ug/l		95
11) Diethyl Ether	8.03	59	68859	52.66	ug/l		98
12) 1,1-Dichloroethene	8.46	61	79431m	48.42	ug/l		
13) Acrylonitrile	8.51	53	42195	54.52	ug/l		90
14) Iodomethane	8.53	142	37578m	38.96	ug/l		
15) Methylene Chloride	8.65	49	128610	44.75	ug/l		92
16) Carbon Disulfide	15.77	76	213353m	44.27	ug/l		
17) T-1,2-Dichloroethene	9.60	61	107839	51.99	ug/l		99
18) MTBE	9.74	73	267375	51.24	ug/l		97
19) 1,1-Dichloroethane	9.94	63	155779	51.37	ug/l		99
20) Vinyl Acetate	10.08	43	154537m	47.73	ug/l		
21) 2-Butanone	10.49	43	61365	55.30	ug/l	#	92
22) 2-Propenenitrile-2-methyl	10.64	41	69180	54.02	ug/l		97
23) C-1,2-Dichloroethene	10.72	96	97374	51.33	ug/l		98
24) Bromochloromethane	10.94	130	55379	51.43	ug/l		100
25) Chloroform	11.01	83	175439	50.95	ug/l		94
26) 2,2-Dichloropropane	11.13	77	110519	48.47	ug/l		98
28) Tetrahydrofuran	11.46	71	11971	54.36	ug/l		94
29) 1,2-Dichloroethane	11.92	62	141403	56.67	ug/l		98
30) 1-Chlorobutane	12.02	56	183293	57.16	ug/l		98
31) 1,1,1-Trichloroethane	12.07	97	125607	54.24	ug/l		99
32) 1,1-Dichloropropene	12.31	75	115429	56.77	ug/l		92
33) Carbon Tetrachloride	12.58	117	92531m	68.12	ug/l		
34) Benzene	12.63	78	381106	55.06	ug/l		100
36) Dibromomethane	13.43	174	65648	50.54	ug/l		94
37) 1,2-Dichloropropane	13.47	63	101354	53.10	ug/l		94
38) Trichloroethene	13.53	130	87116	49.82	ug/l		98
39) Bromodichloromethane	13.60	83	117110	50.50	ug/l		97
40) Methyl Methacrylate	13.75	41	94587	55.01	ug/l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0823A\2699.D Vial: 2
Acq On : 23 Aug 1999 6:04 pm Operator:
Sample : VSTD050 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 19:21 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Fri Aug 20 16:49:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0820\2659.D
DataAcq Meth : TEST1

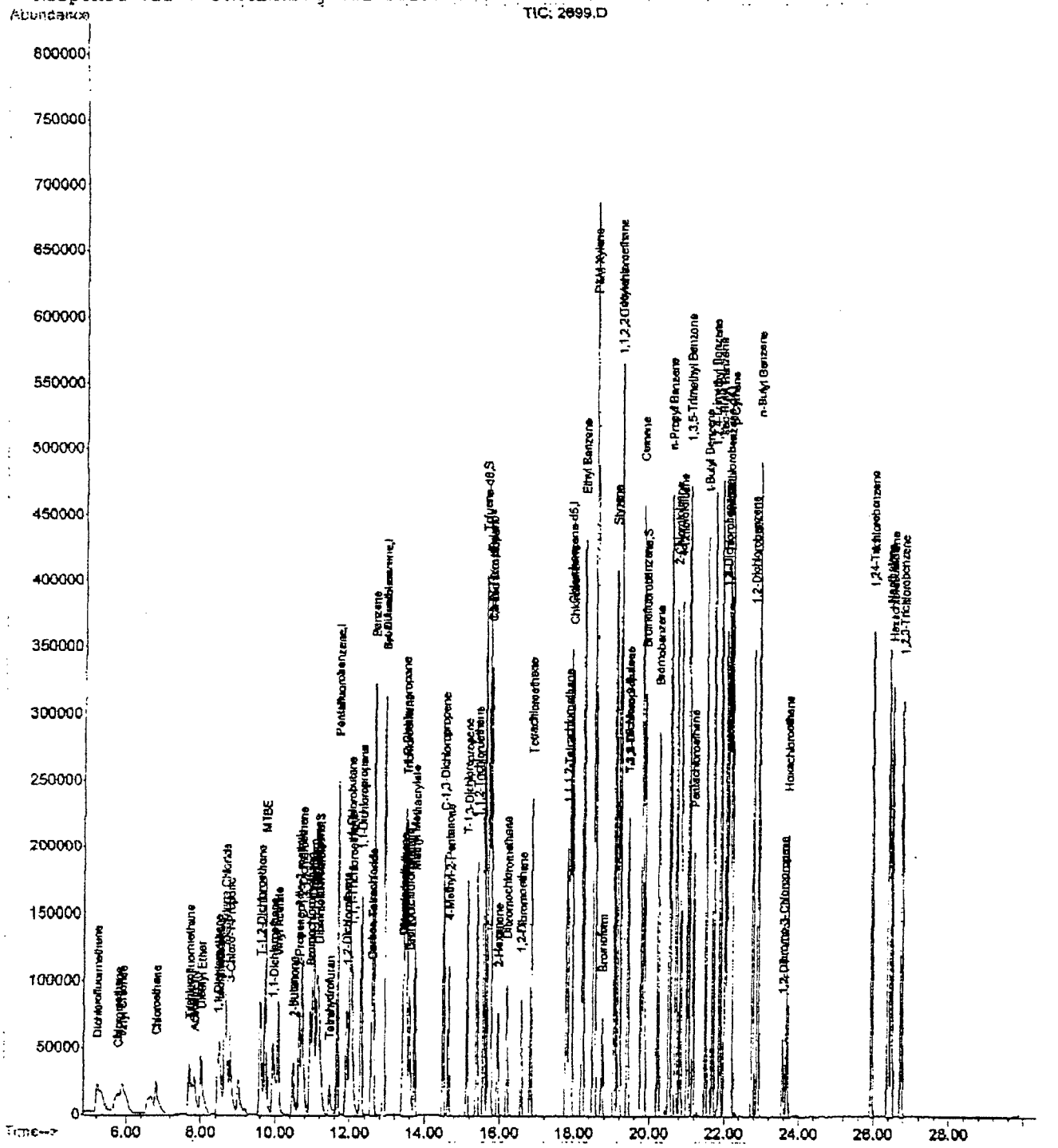
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Chloroiodomethane	13.43	176	31377m	6351.36	ug/l		
42)	C-1,3-Dichloropropene	14.51	75	139122	49.97	ug/l		96
43)	4-Methyl-2-Pentanone	14.66	43	103131	55.13	ug/l		98
44)	T-1,3-Dichloropropene	15.15	75	129153	48.31	ug/l		96
45)	1,1,2-Trichloroethane	15.41	97	83601	50.06	ug/l		99
47)	Toluene	15.71	91	391654	49.41	ug/l		99
48)	1,3-Dichloropropane	15.77	76	165107	50.63	ug/l		96
49)	2-Hexanone	15.97	43	71530	54.23	ug/l		98
50)	Dibromochloromethane	16.21	129	71755	46.50	ug/l		100
51)	1,2-Dibromoethane	16.60	107	86325	49.61	ug/l		100
52)	Tetrachloroethene	16.86	166	103808	47.66	ug/l		99
53)	1,1,1,2-Tetrachloroethane	17.80	131	76259	47.32	ug/l		99
55)	Chlorobenzene	17.93	112	248280	53.42	ug/l		100
56)	Ethyl Benzene	18.23	91	453165	53.01	ug/l		100
57)	P&M Xylene	18.53	106	366921	106.46	ug/l		100
58)	Bromoform	18.75	173	52595	48.48	ug/l		99
59)	Styrene	19.08	104	299888	52.39	ug/l		99
60)	1,1,2,2-Tetrachloroethane	19.18	83	127779	55.07	ug/l	#	85
61)	O-Xylene	19.20	91	386859	52.94	ug/l		100
62)	1,2,3-Trichloropropane	19.43	75	136559	53.89	ug/l		91
63)	T-1,4-Dichloro-2-Butene	19.43	75	136559	53.89	ug/l	#	38
64)	Cumene	19.81	105	461444	53.12	ug/l		98
66)	Bromobenzene	20.24	77	192589	52.58	ug/l		92
67)	n-Propyl Benzene	20.54	91	549402	53.35	ug/l		98
68)	2-Chlorotoluene	20.72	91	335765	52.93	ug/l		97
69)	4-Chlorotoluene	20.85	91	350340	53.18	ug/l		100
70)	1,3,5-Trimethyl Benzene	21.03	105	397490	52.85	ug/l		99
71)	Pentachloroethane	21.17	117	45094	49.61	ug/l		98
72)	t-Butyl Benzene	21.52	119	313410	52.46	ug/l		95
73)	1,2,4-Trimethyl Benzene	21.70	105	409828	52.99	ug/l		99
74)	sec-Butyl Benzene	21.90	105	503019	52.63	ug/l		97
75)	1,3-Dichlorobenzene	22.03	146	233190	51.62	ug/l		95
77)	1,4-Dichlorobenzene	22.03	146	233190	51.54	ug/l		96
78)	p-Cymene	22.20	119	410171	52.79	ug/l		97
79)	1,2-Dichlorobenzene	22.76	146	220544	52.03	ug/l		100
80)	n-Butyl Benzene	22.91	91	409903	52.82	ug/l		98
81)	unk3	22.10	152	170444	49.54	ug/l	#	1
82)	1,2-Dibromo-3-Chloropropan	23.58	157	25558	52.39	ug/l		98
83)	Hexachloroethane	23.70	117	46902m	51.51	ug/l		
84)	1,24-Trichlorobenzene	25.96	180	180003	51.45	ug/l		87
85)	Napthalene	26.40	128	425814	53.42	ug/l		100
86)	Hexachlorobutadiene	26.49	225	113268	50.45	ug/l		96
87)	1,2,3-Trichlorobenzene	26.75	180	157368	52.00	ug/l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : F:\MS VOA BACKUP\0823A\2699.D Vial: 2
Acq On : 23 Aug 1999 6:04 pm Operator:
Sample : VSTD050 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 19:21 1999 Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Oct 18 12:58:26 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0820\2659.D



Evaluate Continuing Calibration Report

Data File : F:\MS VOA BACKUP\0824\2718.D Vial: 4
Acq On : 24 Aug 1999 12:40 pm Operator:
Sample : VSTD050 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 19 17:42:56 1999
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	64	-0.04
2		Dichlorofluormethane	0.651	0.729	-12.0	63	-0.12
3		Chloromethane	0.338	0.492	**-45.6#**	89	-0.07
4		Vinyl Chloride	0.120	0.273	**-127.5#**	142	-0.12
5		Bromomethane	0.376	0.262	**30.3#**	44#	6.19#
6		Chloroethane	0.349	0.376	-7.7	59	-0.11
7		3-Chloro-1-Propene	0.575	0.493	14.3	56	-0.08
8		Trichlorofluormethane	0.780	0.765	1.9	63	-0.10
9		ACROLEIN	0.152	0.152	0.0	73	-0.01
10		Acetone	0.151	0.152	-0.7	73	-0.07
11		Diethyl Ether	0.326	0.308	5.5	63	-0.07
12		1,1-Dichloroethene	0.577	0.909	**-57.5#**	105	1.05#
13		Acrylonitrile	0.166	0.175	-5.4	71	-0.06
14		Iodomethane	0.382	0.215	**43.7#**	33#	-0.07
15		Methylene Chloride	0.659	0.621	5.8	67	-0.06
16		Carbon Disulfide	1.159	0.981	15.4	55	0.00
17		T-1,2-Dichloroethene	0.571	0.527	7.7	61	-0.06
18		MTBE	1.183	1.211	-2.4	67	-0.04
19		1,1-Dichloroethane	0.765	0.749	2.1	64	-0.04
20		Vinyl Acetate	0.568	0.736	**-29.6#**	71	-0.04
21		2-Butanone	0.272	0.245	9.9	64	-0.04
22		2-Propenenitrile-2-methyl	0.285	0.297	-4.2	67	-0.03
23		C-1,2-Dichloroethene	0.481	0.467	2.9	64	-0.04
24		Bromochloromethane	0.265	0.260	1.9	64	-0.04
25		Chloroform	0.823	0.840	-2.1	67	-0.03
26		2,2-Dichloropropane	0.576	0.555	3.6	63	-0.03
27	S	Dibromofluoromethane	0.412	0.444	-7.8	72	-0.03
28		Tetrahydrofuran	0.047	0.048	-2.1	68	-0.02
29		1,2-Dichloroethane	0.622	0.596	4.2	63	-0.03
30		1-Chlorobutane	0.939	0.831	11.5	58	-0.03
31		1,1,1-Trichloroethane	0.673	0.573	14.9	55	-0.03
32		1,1-Dichloropropene	0.591	0.518	12.4	57	-0.03
33		Carbon Tetrachloride	0.479	0.461	3.8	62	-0.02
34		Benzene	1.836	1.691	7.9	60	-0.03
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	64	-0.03
36		Dibromomethane	0.219	0.206	5.9	59	-0.01
37		1,2-Dichloropropane	0.357	0.328	8.1	59	-0.02
38		Trichloroethene	0.312	0.294	5.8	59	-0.03
39		Bromodichloromethane	0.441	0.392	11.1	56	-0.01
40		Methyl Methacrylate	0.283	0.281	0.7	60	-0.01
41		Chloroiodomethane	0.003	0.003	0.0	274#	0.05
42		C-1,3-Dichloropropene	0.513	0.463	9.7	56	-0.01
43		4-Methyl-2-Pentanone	0.312	0.303	2.9	60	-0.01
44		T-1,3-Dichloropropene	0.484	0.439	9.3	56	0.00
45		1,1,2-Trichloroethane	0.300	0.269	10.3	56	-0.01
46	S	Toluene-d8	1.206	1.260	-4.5	67	-0.02
47		Toluene	1.400	1.347	3.8	60	-0.02
48		1,3-Dichloropropane	0.565	0.532	5.8	58	0.00
49		2-Hexanone	0.214	0.214	0.0	61	0.00

(#) = Out of Range
2718.D TEST1.M Tue Oct 19 17:59:47 1999 Page 1

Evaluate Continuing Calibration Report

Data File : F:\MS VOA BACKUP\0824\2718.D
Acq On : 24 Aug 1999 12:40 pm
Sample : VSTD050
Misc :
MS Integration Params: rteint.p

Vial: 4
Operator:
Inst : GC/MS F
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 19 17:42:56 1999
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50		Dibromochloromethane	0.273	0.246	9.9	55	0.00
51		1,2-Dibromoethane	0.296	0.274	7.4	57	0.00
52		Tetrachloroethene	0.388	0.360	7.2	60	0.00
53		1,1,1,2-Tetrachloroethane	0.299	0.263	12.0	54	0.00
54	I	Chlorobenzene-d5	1.000	1.000	0.0	65	0.00
55		Chlorobenzene	1.002	0.907	9.5	59	0.00
56		Ethyl Benzene	1.850	1.690	8.6	59	0.00
57		P&M Xylene	1.457	1.363	6.5	59	0.00
58		Bromoform	0.211	0.184	12.8	53	0.00
59		Styrene	1.096	1.096	0.0	58	-0.01
60		1,1,2,2-Tetrachloroethane	0.434	0.433	0.2	61	0.00
61		O-Xylene	1.472	1.429	2.9	59	0.00
62		1,2,3-Trichloropropane	N/A	1.00	0.0	53	-7.33#
63		T-1,4-Dichloro-2-Butene	0.475	0.454	4.4	59	0.01
64		Cumene	1.835	1.730	5.7	58	0.00
65	S	Bromofluorobenzene	0.630	0.559	11.3	67	0.00
66		Bromobenzene	0.725	0.702	3.2	58	0.00
67		n-Propyl Benzene	2.108	2.046	2.9	58	0.00
68		2-Chlorotoluene	1.245	1.238	0.6	58	0.00
69		4-Chlorotoluene	1.268	1.294	-2.1	59	0.12
70		1,3,5-Trimethyl Benzene	1.449	1.473	-1.7	59	0.00
71		Pentachloroethane	0.179	0.173	3.4	56	0.00
72		t-Butyl Benzene	1.224	1.170	4.4	57	0.00
73		1,2,4-Trimethyl Benzene	1.469	1.508	-2.7	59	0.00
74		sec-Butyl Benzene	1.931	1.893	2.0	58	0.00
75		1,3-Dichlorobenzene	0.811	0.860	-6.0	60	0.00
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00
77		1,4-Dichlorobenzene	0.826	0.818	1.0	60	0.00
78		p-Cymene	1.551	1.453	6.3	59	0.00
79		1,2-Dichlorobenzene	0.759	0.763	-0.5	61	0.00
80		n-Butyl Benzene	1.526	1.467	3.9	60	0.00
81		unk3	N/A	1.00	0.0	72	-4.65#
82		1,2-Dibromo-3-Chloropropane	0.076	0.078	-2.6	61	0.00
83		Hexachloroethane	0.205	0.172	16.1	54	0.00
84		1,24-Trichlorobenzene	0.599	0.615	-2.7	63	0.00
85		Napthalene	1.229	1.307	-6.3	65	0.00
86		Hexachlorobutadiene	0.426	0.392	8.0	62	0.00
87		1,2,3-Trichlorobenzene	0.483	0.520	-7.7	64	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2718.D TEST1.M Tue Oct 19 17:59:59 1999

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0824\2718.D Vial: 4
Acq On : 24 Aug 1999 12:40 pm Operator:
Sample : VSTD050 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 24 13:17 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 11:55:29 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2716.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	11.68	168	198804	50.00	ug/l		0.00
35) 1,4-Difluorobenzene	12.92	114	280290	50.00	ug/l		0.00
54) Chlorobenzene-d5	17.67	117	260496	50.00	ug/l		0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	273831	50.00	ug/l		0.00
System Monitoring Compounds							
27) Dibromofluoromethane	11.18	113	88236	52.59	ug/l		0.00
Spiked Amount 50.000			Recovery =	105.18%			
46) Toluene-d8	15.59	98	353089	53.98	ug/l		0.00
Spiked Amount 50.000			Recovery =	107.96%			
65) Bromofluorobenzene	19.87	95	145732	48.72	ug/l		0.00
Spiked Amount 50.000			Recovery =	97.44%			
Target Compounds							Qvalue
2) Dichlorofluormethane	5.24	85	144902	43.46	ug/l		100
3) Chloromethane	5.72	50	97734	114.61	ug/l	#	68
4) Vinyl Chloride	5.91	62	54367m	19.35	ug/l		
5) Bromomethane	12.92	94	52064m	136.30	ug/l		
6) Chloroethane	6.81	64	74798	43.75	ug/l		98
7) 3-Chloro-1-Propene	8.80	41	98054	46.48	ug/l	#	93
8) Trichlorofluormethane	7.70	101	152091	85.79	ug/l		100
9) ACROLEIN	7.85	43	30213	46.95	ug/l		97
10) Acetone	7.85	43	30213	46.95	ug/l		97
11) Diethyl Ether	8.04	59	61285	44.30	ug/l		97
12) 1,1-Dichloroethene	9.61	61	180811m	107.52	ug/l		
13) Acrylonitrile	8.52	53	34768	41.52	ug/l		88
14) Iodomethane	8.53	142	42717m	87.81	ug/l		
15) Methylene Chloride	8.66	49	123495m	50.11	ug/l		
16) Carbon Disulfide	15.77	76	195099m	59.05	ug/l		
17) T-1,2-Dichlorcethene	9.61	61	104705	46.31	ug/l		98
18) MTBE	9.74	73	240685	44.41	ug/l		97
19) 1,1-Dichloroethane	9.95	63	148870	46.16	ug/l		98
20) Vinyl Acetate	10.09	43	146335	39.80	ug/l		97
21) 2-Butanone	10.49	43	48611	40.46	ug/l		95
22) 2-Propenenitrile-2-methyl	10.64	41	58985	42.26	ug/l		97
23) C-1,2-Dichlorcethene	10.72	96	92906	46.70	ug/l		98
24) Bromochloromethane	10.94	130	51625	46.82	ug/l		99
25) Chloroform	11.01	83	166994	46.53	ug/l		95
26) 2,2-Dichloropropane	11.13	77	110422	46.10	ug/l		99
28) Tetrahydrofuran	11.47	71	9630	41.82	ug/l		93
29) 1,2-Dichlorethane	11.91	62	118442	40.98	ug/l		98
30) 1-Chlorobutane	12.02	56	165166	41.92	ug/l		100
31) 1,1,1-Trichloroethane	12.06	97	113897	42.25	ug/l		99
32) 1,1-Dichloropropene	12.31	75	102901	41.67	ug/l		93
33) Carbon Tetrachloride	12.59	117	91707m	61.87	ug/l		
34) Benzene	12.62	78	336194	42.23	ug/l		100
36) Dibromomethane	13.43	174	57622	41.89	ug/l		95
37) 1,2-Dichloropropane	13.47	63	92025	42.73	ug/l		94
38) Trichloroethene	13.52	130	82331	43.93	ug/l		98
39) Bromodichloromethane	13.60	83	109970	44.45	ug/l		100
40) Methyl Methacrylate	13.75	41	78849	42.42	ug/l		98

(#) = qualifier out of range (m) = manual integration
2718.D TEST1.M Mon Oct 18 17:34:49 1999

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0824\2718.D
Acq On : 24 Aug 1999 12:40 pm
Sample : VSTD050
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 13:17 1999

Vial: 4
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 11:55:29 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2716.D
DataAcq Meth : TEST1

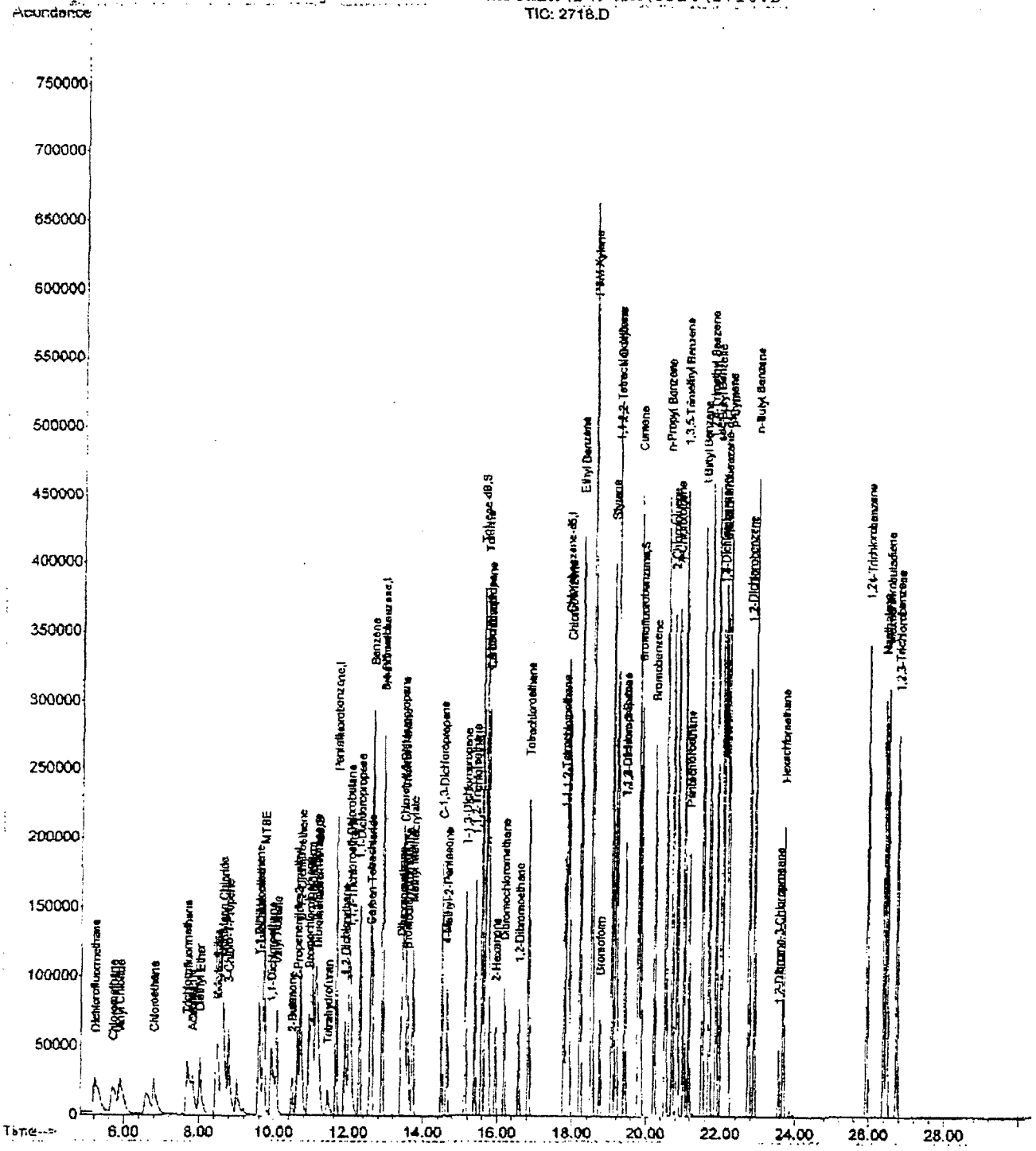
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41) Chloroiodomethane	13.49	176	974m	1.48 ug/l		
42) C-1,3-Dichloropropene	14.52	75	129798	47.72 ug/l		96
43) 4-Methyl-2-Pentanone	14.66	43	84901	42.10 ug/l		98
44) T-1,3-Dichloropropene	15.15	75	123152	47.50 ug/l		96
45) 1,1,2-Trichloroethane	15.40	97	75437	45.34 ug/l		99
47) Toluene	15.70	91	377514	46.89 ug/l		99
48) 1,3-Dichloropropane	15.77	76	149033	45.50 ug/l		96
49) 2-Hexanone	15.97	43	59940	43.34 ug/l	#	94
50) Dibromochloromethane	16.21	129	68940	47.19 ug/l		99
51) 1,2-Dibromoethane	16.60	107	76925	44.75 ug/l		99
52) Tetrachloroethene	16.86	166	100973	46.55 ug/l		99
53) 1,1,1,2-Tetrachloroethane	17.79	131	73673	47.87 ug/l		100
55) Chlorobenzene	17.93	112	236179	43.23 ug/l		100
56) Ethyl Benzene	18.23	91	440319	43.51 ug/l		100
57) P&M Xylene	18.54	106	355169	86.92 ug/l		100
58) Bromoform	18.75	173	47948	41.72 ug/l		99
59) Styrene	19.08	104	285576	43.25 ug/l		99
60) 1,1,2,2-Tetrachloroethane	19.18	83	112813	40.75 ug/l	#	85
61) O-Xylene	19.20	91	372365	43.44 ug/l		100
62) 1,2,3-Trichloropropane	19.43	75	118260	40.40 ug/l		92
63) T-1,4-Dichloro-2-Butene	19.43	75	118260	40.40 ug/l	#	39
64) Cumene	19.80	105	450611	42.60 ug/l		97
66) Bromobenzene	20.23	77	182792	42.93 ug/l		92
67) n-Propyl Benzene	20.54	91	533045	42.38 ug/l		99
68) 2-Chlorotoluene	20.71	91	322537	43.19 ug/l		97
69) 4-Chlorotoluene	20.84	91	337149	43.21 ug/l		100
70) 1,3,5-Trimethyl Benzene	21.03	105	383677	42.78 ug/l		99
71) Pentachloroethane	21.17	117	44991	44.94 ug/l		96
72) t-Butyl Benzene	21.52	119	304770	41.75 ug/l		96
73) 1,2,4-Trimethyl Benzene	21.71	105	392869	42.71 ug/l		99
74) sec-Butyl Benzene	21.89	105	493085	41.14 ug/l		97
75) 1,3-Dichlorobenzene	22.03	146	223948	43.13 ug/l		94
77) 1,4-Dichlorobenzene	22.03	146	223948	44.96 ug/l		96
78) p-Cymene	22.20	119	397944	42.82 ug/l		98
79) 1,2-Dichlorobenzene	22.76	146	208886	44.77 ug/l		99
80) n-Butyl Benzene	22.91	91	401833	42.40 ug/l		98
81) unk3	22.10	152	159940	50.98 ug/l	#	1
82) 1,2-Dibromo-3-Chloropropan	23.58	157	21444	40.59 ug/l		98
83) Hexachloroethane	23.70	117	47199m	47.87 ug/l		
84) 1,24-Trichlorobenzene	25.96	180	168356	43.60 ug/l		88
85) Napthalene	26.40	128	357914	40.93 ug/l		100
86) Hexachlorobutadiene	26.49	225	107353	39.92 ug/l		96
87) 1,2,3-Trichlorobenzene	26.76	180	142498	42.31 ug/l		99

(#) = qualifier out of range (m) = manual integration
2718.D TEST1.M Mon Oct 18 17:34:51 1999

Quantitation Report

Data File : F:\MS VOA BACKUP\0824\2718.D Vial: 4
Acq On : 24 Aug 1999 12:40 pm Operator:
Sample : VSTD050 Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 24 13:17 1999 Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Oct 18 12:58:26 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2716.D



8B

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Lab File ID (Standard): F2699 Date Analyzed: 8/23/99

Instrument ID: _____ Time Analyzed: 1804

		IS1 (PFB) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (CHB) AREA	#	RT	#
	12 HOUR STD	228420		11.68		319632		12.91		275499		17.87	
	UPPER LIMIT	456840		12.18		639264		13.41		550998		18.37	
	LOWER LIMIT	114210		11.18		159816		12.41		137750		17.37	
	SAMPLE NO.												
01	VBLKW	213621		11.68		300662		12.92		268932		17.87	
02	VBLKMSW	219389		11.68		299587		12.91		266419		17.87	
03	9908-219-01 1:100	97385	*	11.68		159063	*	12.92		164344		17.87	
04	9908-219-04 1:100	134099		11.69		205339		12.92		197210		17.87	
05	9908-219-02 1:50	54403	*	11.68		103011	*	12.92		119797	*	17.87	
07	9908-219-03	185602		11.68		267227		12.92		243190		17.87	
08	9908-219-06 MSD	194185		11.68		285800		12.92		258550		17.87	
09	9908-219-06 MS	180626		11.68		266939		12.91		243355		17.87	
10	9908-219-06	114003	*	11.68		182175		12.92		181343		17.87	
11	9908-219-05	131919		11.68		223816		12.92		130146	*	17.87	
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CHB) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Lab File ID (Standard): F2699 Date Analyzed: 8/23/99

Instrument ID: _____ Time Analyzed: 1804

		IS4 (DCB) AREA #	RT #				
	12 HOUR STD	294432	22.10				
	UPPER LIMIT	588864	22.60				
	LOWER LIMIT	147216	21.60				
	SAMPLE NO.						
01	VBLKW	231684	22.10				
02	VBLKMSW	227226	22.10				
03	9908-219-01 1:100	154152	22.10				
04	9908-219-04 1:100	172736	22.10				
05	9908-219-02 1:50	119263 *	22.10				
07	9908-219-03	207861	22.10				
08	9908-219-06 MSD	221458	22.10				
07	9908-219-06 MS	208860	22.10				
08	9908-219-06	164943	22.10				
09	9908-219-05	69898 *	22.10				
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (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 internal standard area values with an asterisk.
* Values outside of QC limits.

8B

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Lab File ID (Standard): F2718 Date Analyzed: 8/24/99

Instrument ID: _____ Time Analyzed: 1240

		IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CHB) AREA #	RT #
	12 HOUR STD	198804	11.68	280290	12.92	260496	17.87
	UPPER LIMIT	397608	12.18	560580	13.42	520992	18.37
	LOWER LIMIT	99402	11.18	140145	12.42	130248	17.37
	SAMPLE NO.						
01	VBLKW	201752	11.68	260089	12.91	229855	17.87
02	VBLKMSW	217255	11.68	308520	12.91	248687	17.87
03	9908-219-05 RR	190424	11.68	265510	12.91	209249	17.87
04	9908-219-01 1:50	179629	11.68	256258	12.92	230251	17.87
05	9908-219-04 1:50	202240	11.68	260792	12.91	228020	17.87
07	9908-219-02 1:50 RR	175142	11.68	248476	12.91	225027	17.87
08	9908-219-03 RR	122010	11.68	186743	12.92	182535	17.87
09	9908-219-06 RR	198255	11.68	259109	12.92	231350	17.87
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CHB) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Lab File ID (Standard): F2718 Date Analyzed: 8/24/99

Instrument ID: _____ Time Analyzed: 1240

		IS4 (DCB) AREA #	RT #				
	12 HOUR STD	273831	22.10				
	UPPER LIMIT	547662	22.60				
	LOWER LIMIT	136916	21.60				
	SAMPLE NO.						
01	VBLKW	229855	22.10				
02	VBLKMSW	213829	22.10				
03	9908-219-05 RR	179628	22.10				
04	9908-219-01 1:50	200549	22.10				
05	9908-219-04 1:50	196521	22.10				
07	9908-219-02 1:50 RR	193929	22.10				
08	9908-219-03 RR	167086	22.10				
07	9908-219-06 RR	200227	22.10				
08							
09							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (DCB) = 1,4-Dichlorobenzene-d4

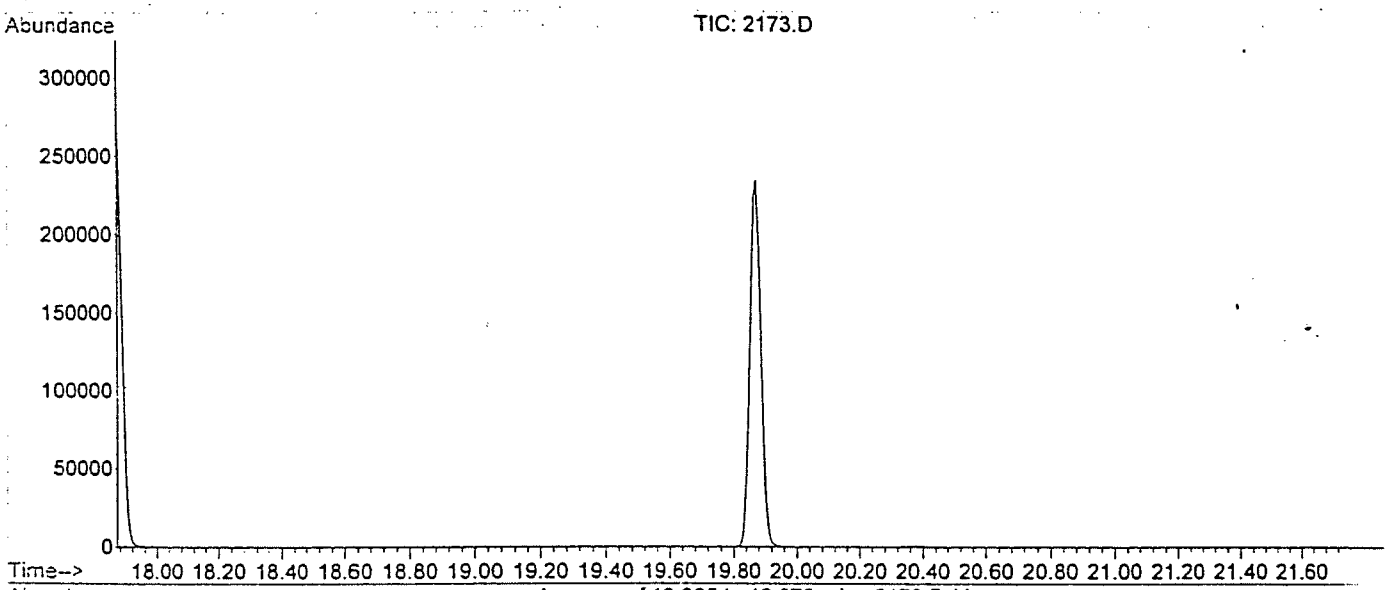
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

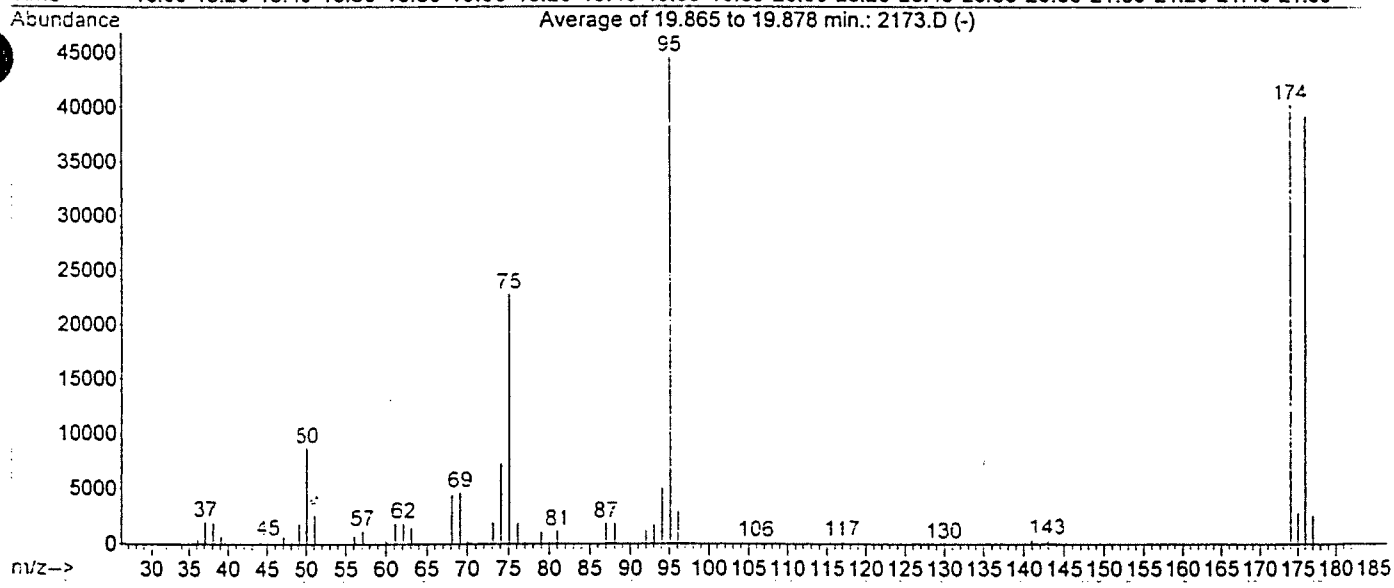
Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

BFB

Data File : C:\HPCHEM\1\data\0707\2173.D
Acq On : 7 Jul 1999 5:29 pm
Sample : TUNE
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524

Vial: 100
Operator: JSD
Inst : GC/MS F
Multiplr: 1.00





AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2459

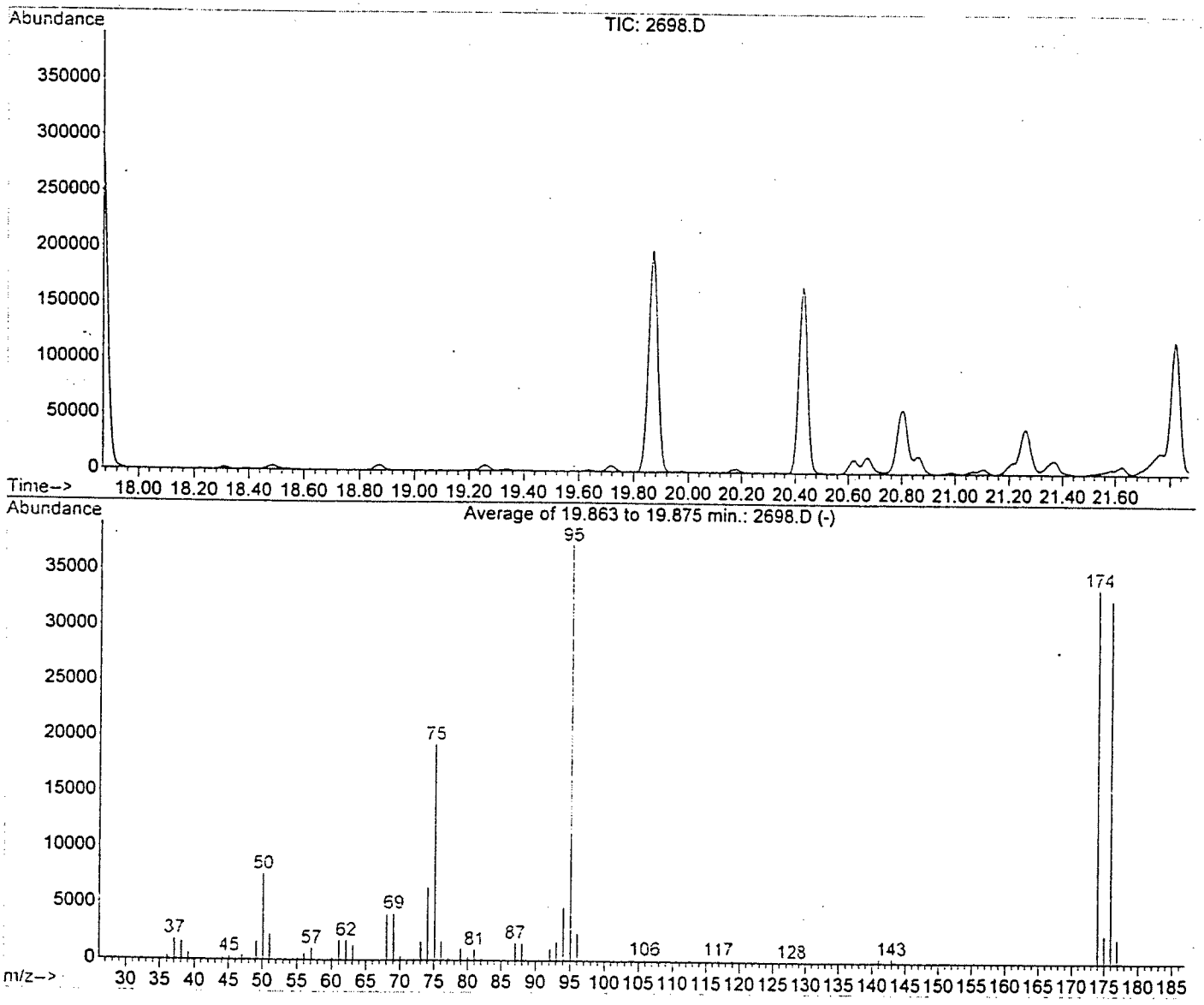
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	8766	PASS
75	95	30	60	51.2	22864	PASS
95	95	100	100	100.0	44653	PASS
96	95	5	9	6.6	2959	PASS
173	174	0.00	2	0.5	182	PASS
174	95	50	100	90.2	40288	PASS
175	174	5	9	7.3	2947	PASS
176	174	95	101	97.5	39296	PASS
177	176	5	9	6.7	2624	PASS

000121

BFB

Data File : C:\HPCHEM\1\DATA\0823A\2698.D
Acq On : 23 Aug 1999 5:26 pm
Sample : TUNE
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524

Vial: 1
Operator:
Inst : GC/MS F
Multiplr: 1.00



AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2460

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	7621	PASS
75	95	30	60	51.8	19323	PASS
95	95	100	100	100.0	37309	PASS
96	95	5	9	6.6	2462	PASS
173	174	0.00	2	0.4	138	PASS
174	95	50	100	90.0	33581	PASS
175	174	5	9	7.4	2500	PASS
176	174	95	101	97.1	32611	PASS
177	176	5	9	6.6	2150	PASS

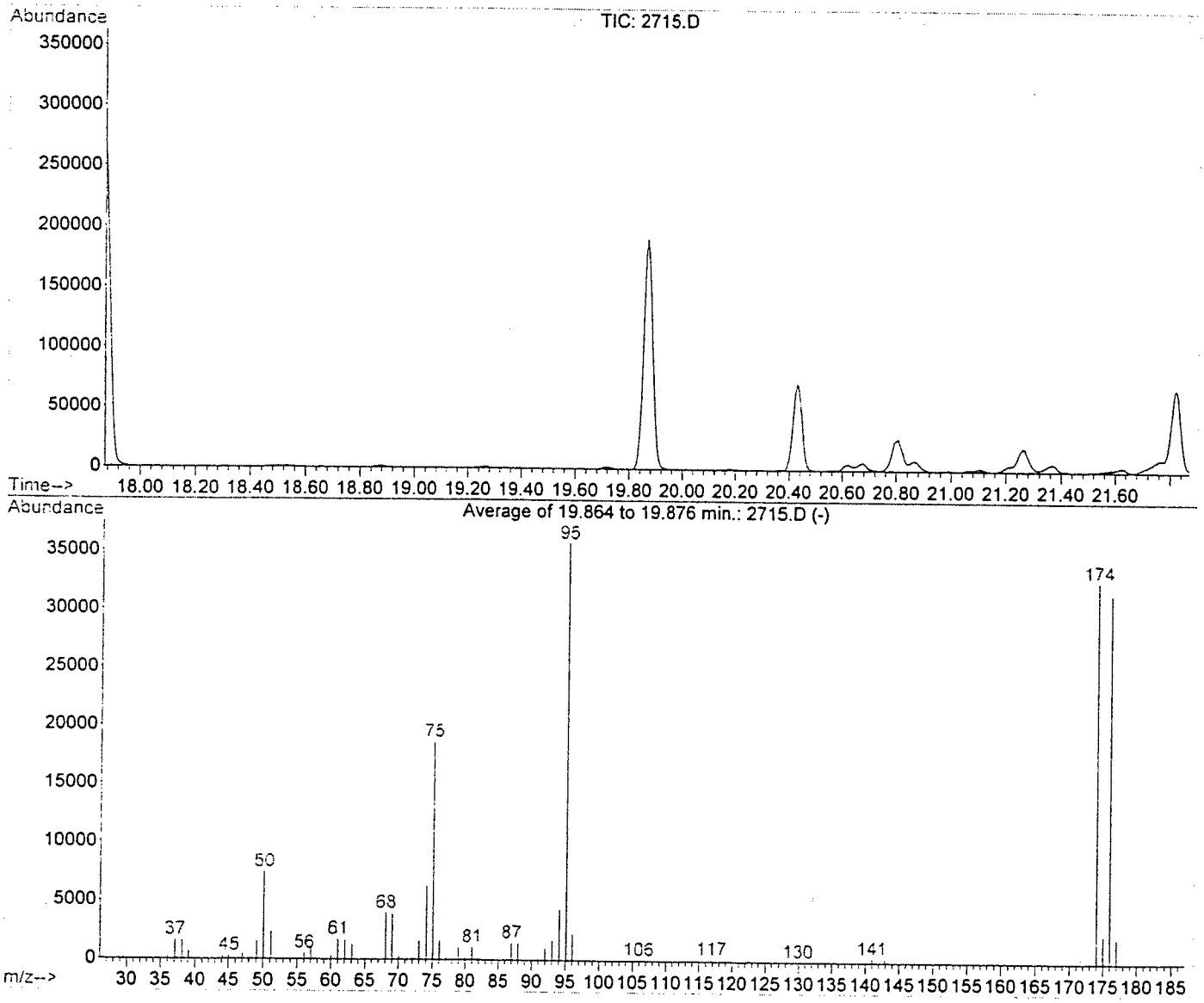
000122

2698.D TEST1.M Mon Aug 23 17:56:54 1999

BFB

Data File : C:\HPCHEM\1\DATA\0824\2715.D
Acq On : 24 Aug 1999 10:45 am
Sample : TUNE
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524

Vial: 1
Operator:
Inst : GC/MS F
Multiplr: 1.00



AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2460

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	7460	PASS
75	95	30	60	52.1	18653	PASS
95	95	100	100	100.0	35768	PASS
96	95	5	9	6.4	2292	PASS
173	174	0.00	2	0.7	227	PASS
174	95	50	100	91.4	32675	PASS
175	174	5	9	7.3	2378	PASS
176	174	95	101	96.8	31624	PASS
177	176	5	9	6.7	2132	PASS

000123

2715.D TEST1.M Tue Aug 24 11:16:28 1999

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLANK 8/3/99

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) SOIL Lab Sample ID: BLK 8/3/99

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2719

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
75-01-4	Vinyl Chloride	10	U
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-01-2	Trichloroflouromethane	10	U
75-00-3	Acrolein	10	U
75-35-4	1,1-Dichloroethylene	5	U
67-64-1	Iodomethane	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acrylonitrile	10	U
156-60-5	t-1,2-Dichloroethene	5	U
156-60-5	2,2-Dichloropropane	5	U
75-34-4	1,1-Dichloroethane	5	U
67-66-3	Vinyl Acetate	10	U
78-93-3	2-Butanone	10	U
	cis-1,3-Dichloroethylene	5	U
67-66-3	Chloroform	5	U
75-27-4	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
124-48-1	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA
1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

3/90

SAMPLE NO.
BLANK 8/3/99

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) SOIL Lab Sample ID: BLK 8/3/99

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2719

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 0 Date Analyzed: 8/24/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
121-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5	U
127-18-4	1,2-Dibromomethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
	Xylene (total)	5	U
79-34-5	1,1,1,2-Tetrachloroethane	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
79-34-5	1,3-Dichlorobenzene	5	U
79-34-5	1,4-Dichlorobenzene	5	U
79-34-5	1,2-Dichlorobenzene	5	U
79-34-5	1,2-Dibromo-3-Chloropropane	10	U

000125

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0824\2719.D
Acq On : 24 Aug 1999 1:18 pm
Sample : VBLKW
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 14:59 1999

Vial: 5
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	201752	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	260089	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	229855	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	197049	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	82018	45.80	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.60%			
46) Toluene-d8	15.59	98	322868m	49.27	ug/l	0.00
Spiked Amount 50.000			Recovery = 98.54%			
65) Bromofluorobenzene	19.87	95	119464	46.45	ug/l	0.00
Spiked Amount 50.000			Recovery = 92.90%			

Target Compounds Qvalue

000126

(#) = qualifier out of range (m) = manual integration
2719.D 8260S.M Tue Oct 05 16:21:38 1999

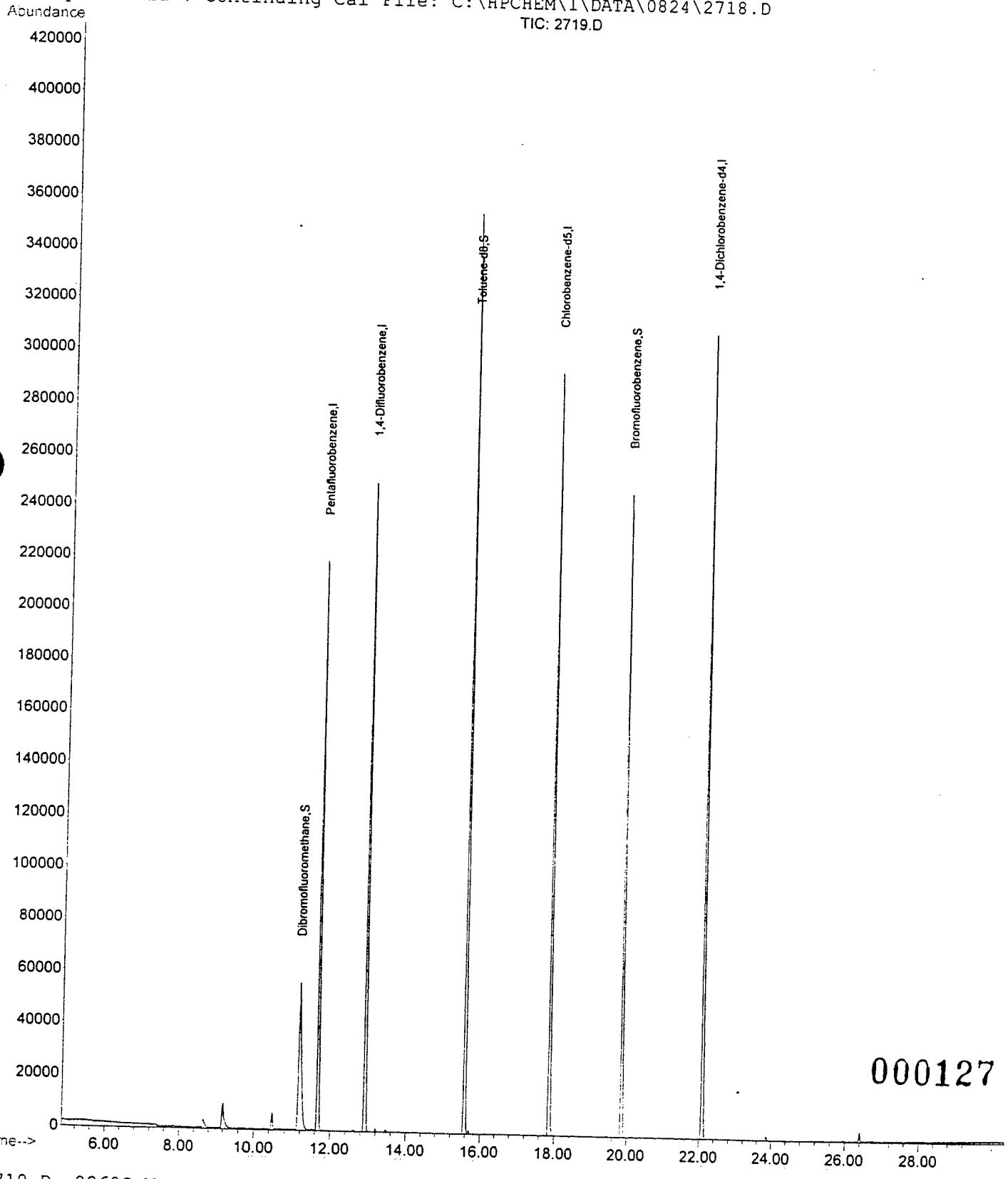
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0824\2719.D
Acq On : 24 Aug 1999 1:18 pm
Sample : VBLKW
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 14:59 1999

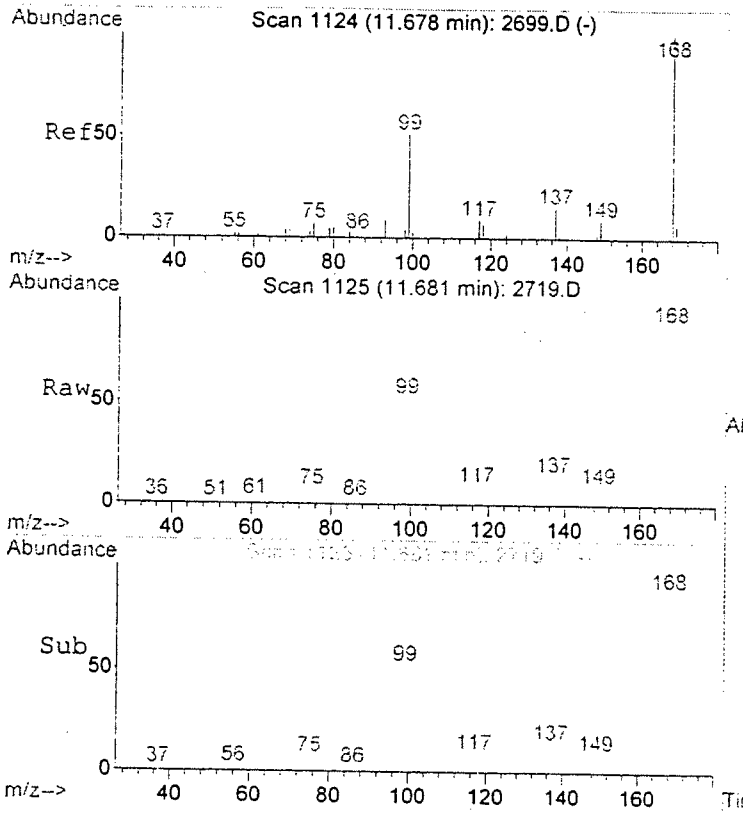
Vial: 5
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\8260S.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Oct 05 16:09:30 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



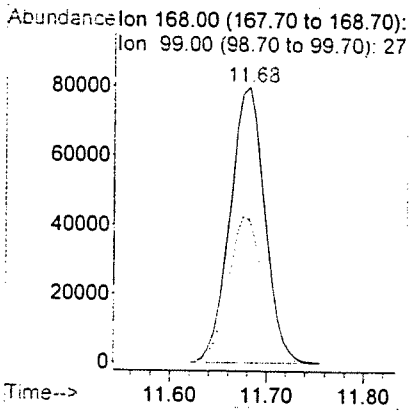
000127

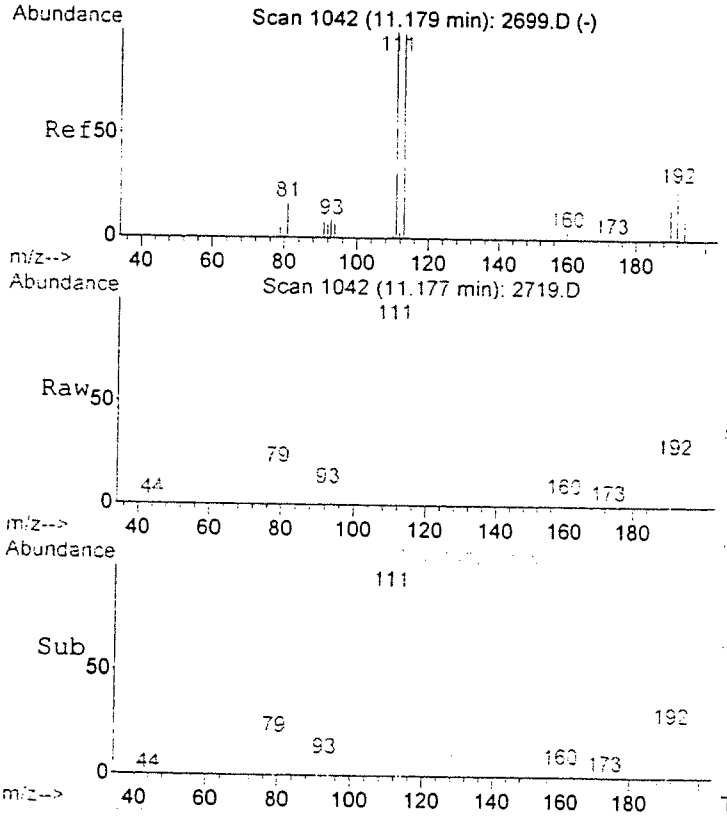


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1125
Delta R.T. 0.00 min
Lab File: 2719.D
Acq: 24 Aug 1999 1:18 pm

Tgt Ion:168 Resp: 201752

Ion	Ratio	Lower	Upper
168	100		
99	53.1	44.1	66.1

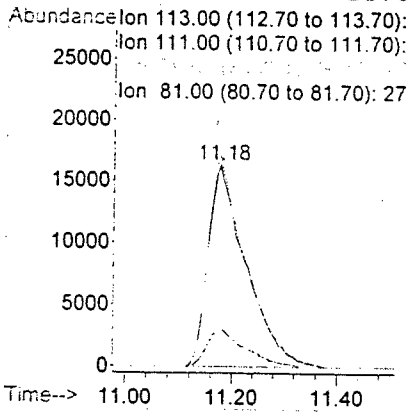




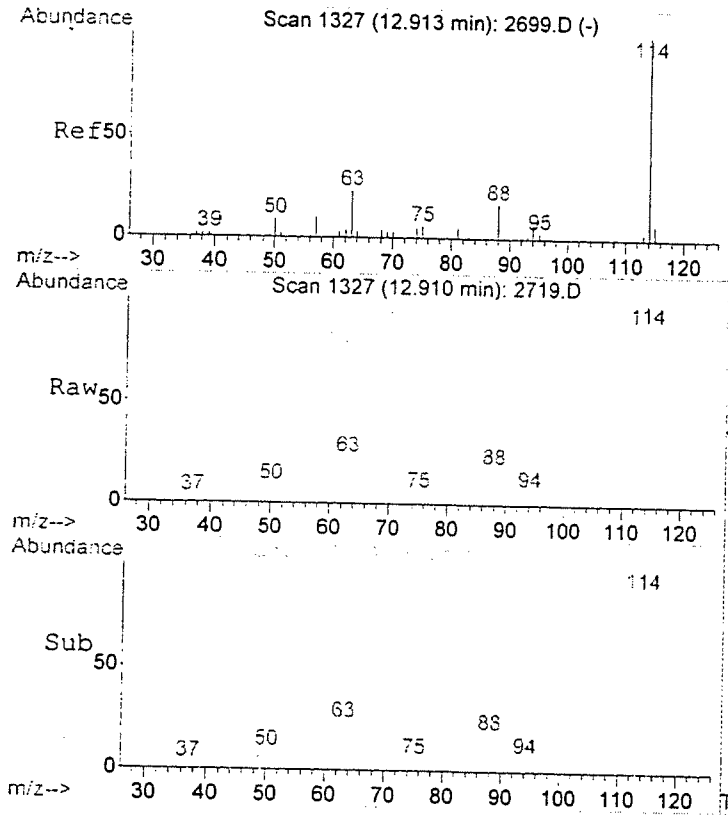
#27
Dibromofluoromethane
Concen: 45.80 ug/l
RT: 11.18 min Scan# 1042
Delta R.T. -0.01 min
Lab File: 2719.D
Acq: 24 Aug 1999 1:18 pm

Tgt Ion:113 Resp: 82018

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.0	121.6
79	18.8	15.4	23.0
81	18.7	14.4	21.6

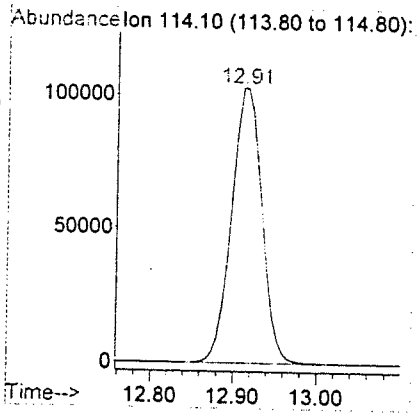


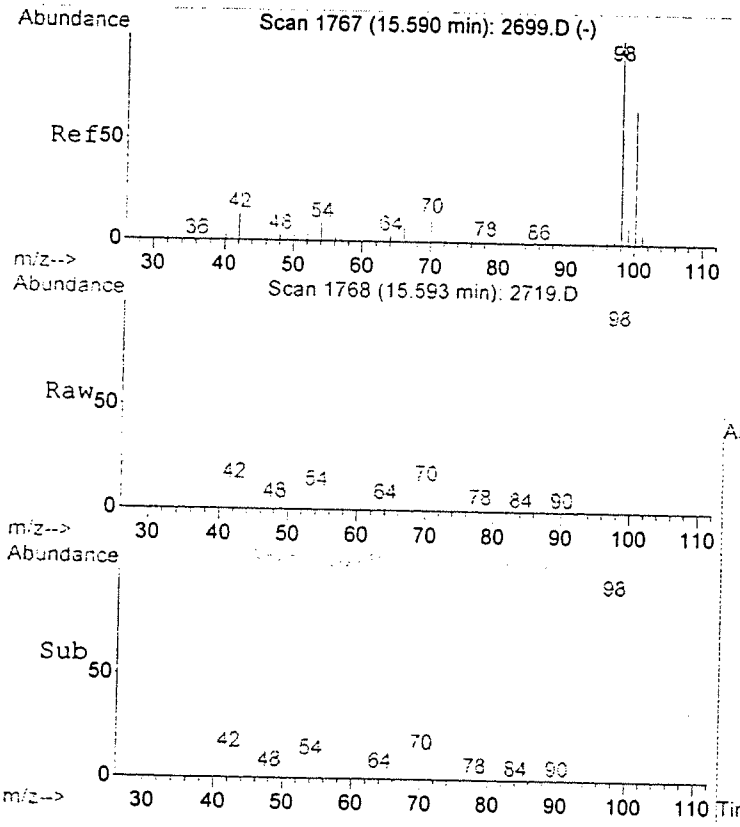
000128



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1327
Delta R.T. -0.01 min
Lab File: 2719.D
Acq: 24 Aug 1999 1:18 pm

Tgt Ion:114 Resp: 260089

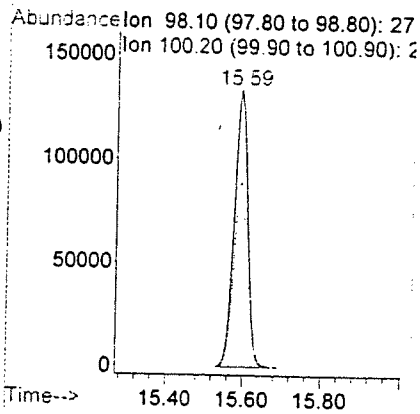




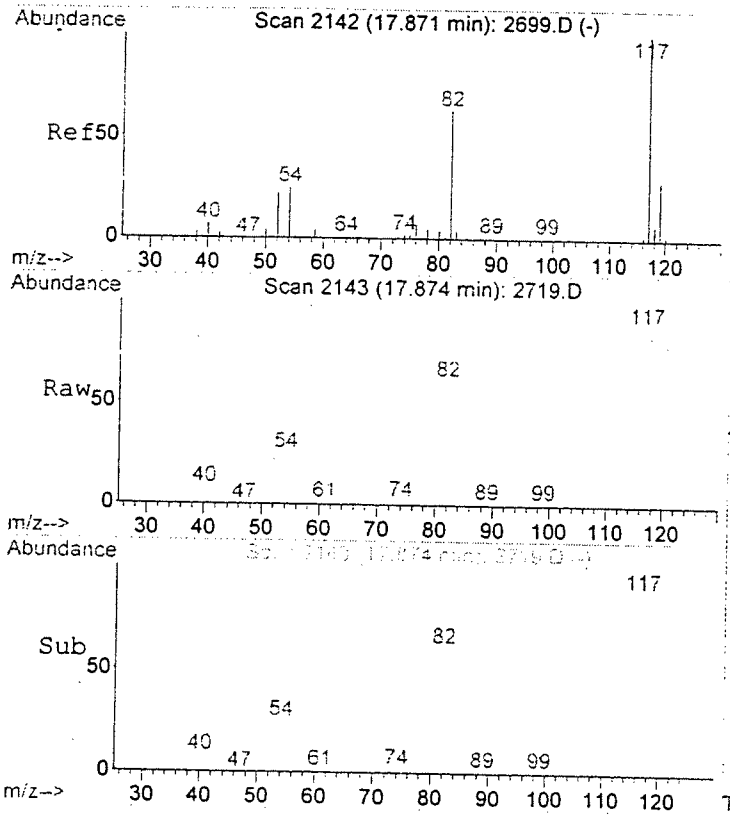
#46
Toluene-d8
Concen: 49.27 ug/l m
RT: 15.59 min Scan# 1768
Delta R.T. 0.00 min
Lab File: 2719.D
Acq: 24 Aug 1999 1:18 pm

Tgt Ion: 98 Resp: 322868

Ion	Ratio	Lower	Upper
98	100		
100	66.2	54.2	81.2



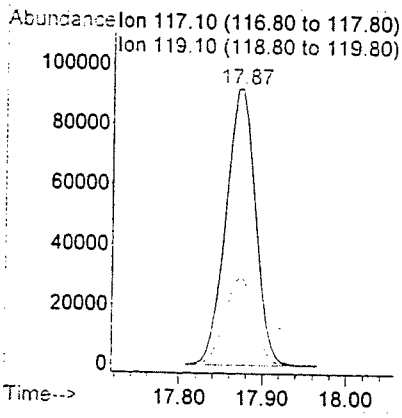
000129

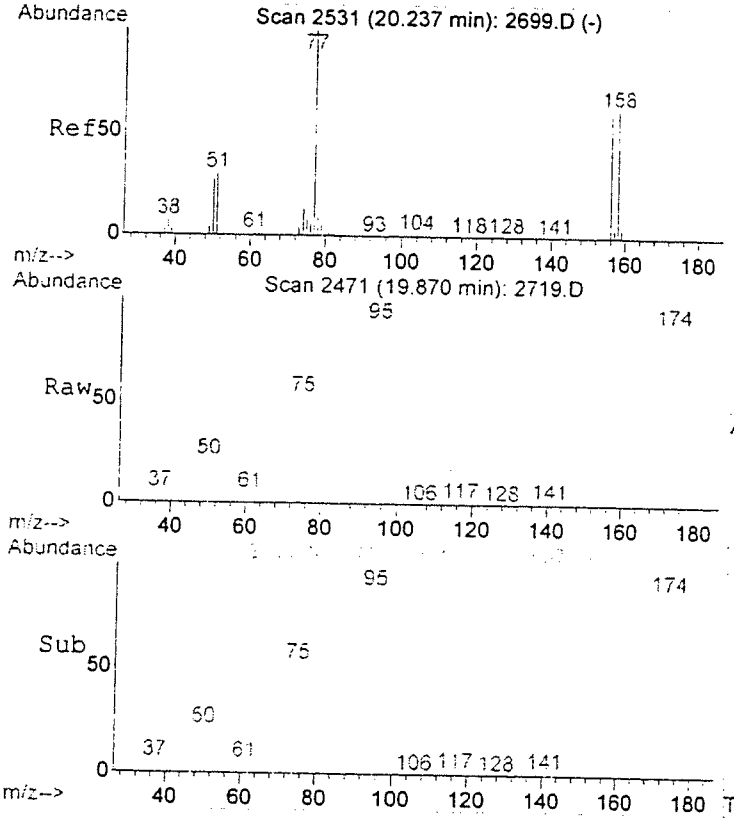


#54
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 17.87 min Scan# 2143
Delta R.T. 0.00 min
Lab File: 2719.D
Acq: 24 Aug 1999 1:18 pm

Tgt Ion:117 Resp: 229855

Ion	Ratio	Lower	Upper
117	100		
119	31.9	25.9	38.9

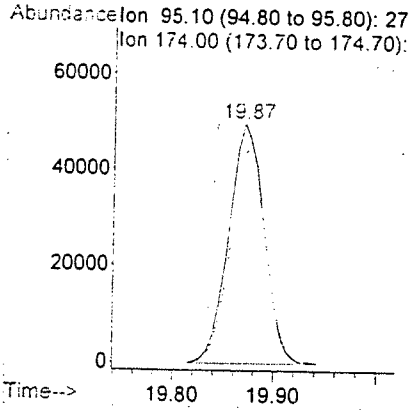




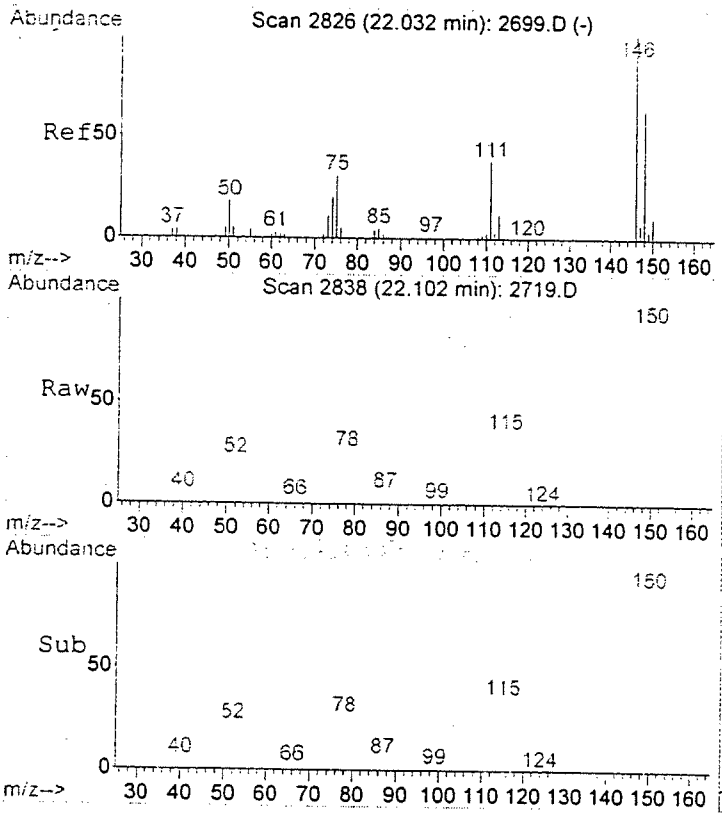
#65
Bromofluorobenzene
Concen: 46.45 ug/l
RT: 19.87 min Scan# 2471
Delta R.T. -0.01 min
Lab File: 2719.D
Acq: 24 Aug 1999 1:18 pm

Tgt Ion: 95 Resp: 119464

Ion	Ratio	Lower	Upper
95	100		
174	91.1	63.3	94.9
176	87.9	62.9	94.3

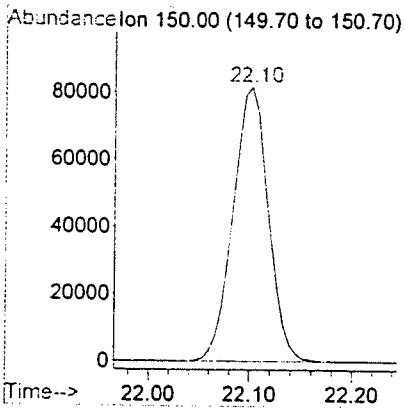


000130



#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2838
Delta R.T. 0.00 min
Lab File: 2719.D
Acq: 24 Aug 1999 1:18 pm

Tgt Ion:150 Resp: 197049



000131

Data File : C:\HPCHEM\1\DATA\0824\2720.D
Acq On : 24 Aug 1999 1:56 pm
Sample : VBLKMSW
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 15:05 1999

Vial: 6
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:11:41 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	217255	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	308520	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	248687	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	213829	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.17	113	87347	45.29	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.58%		
46) Toluene-d8	15.60	98	346917	44.63	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.26%		
65) Bromofluorobenzene	19.87	95	128585	46.21	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.42%		
Target Compounds						Qvalue
12) 1,1-Dichloroethene	8.47	61	121031m	72.31	ug/l	
34) Benzene	12.63	78	459583	62.55	ug/l	100
38) Trichloroethene	13.53	130	102449	56.52	ug/l	98
47) Toluene	15.70	91	430922	51.85	ug/l	100
55) Chlorobenzene	17.93	112	257254	57.05	ug/l	100

000132

(#) = qualifier out of range (m) = manual integration
2720.D TEST1.M Tue Aug 24 15:06:02 1999

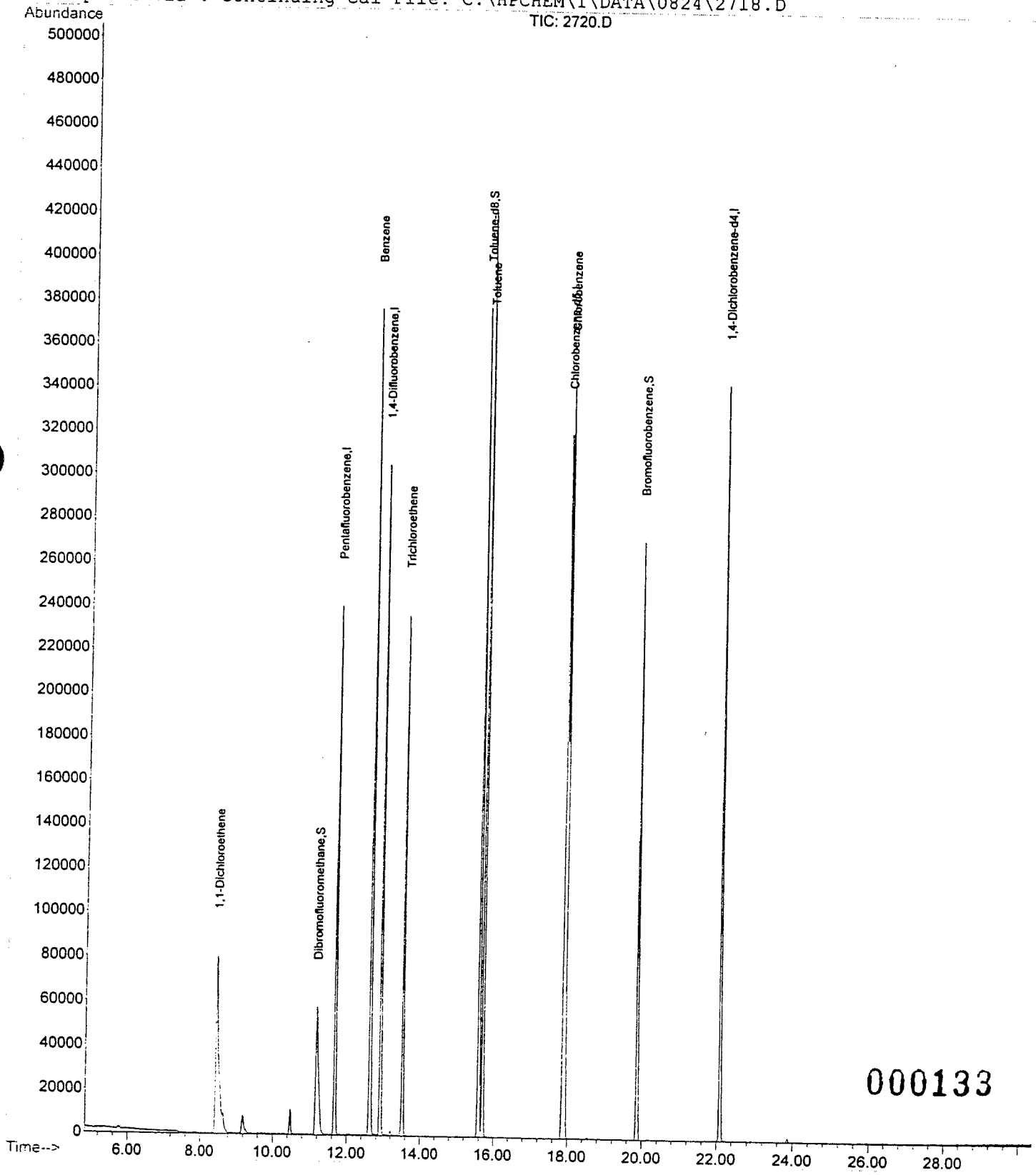
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0824\2720.D
Acq On : 24 Aug 1999 1:56 pm
Sample : VBLKMSW
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 15:05 1999

Vial: 6
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Tue Aug 24 13:34:12 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0824\2718.D



000133

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLANK 8/2/99

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

ject No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: BLK 8/2/99

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2700

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/23/99

GC Column: RTX-624 ID: 0.53 (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
75-01-4	Vinyl Chloride	10	U
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-01-2	Trichloroflouromethane	10	U
75-00-3	Acrolein	10	U
75-35-4	1,1-Dichloroethylene	5	U
67-64-1	Iodomethane	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acrylonitrile	10	U
156-60-5	t-1,2-Dichloroethene	5	U
156-60-5	2,2-Dichloropropane	5	U
75-34-4	1,1-Dichloroethane	5	U
67-66-3	Vinyl Acetate	10	U
78-93-3	2-Butanone	10	U
	cis-1,3-Dichloroethylene	5	U
67-66-3	Chloroform	5	U
75-27-4	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
124-48-1	Dibromomethane	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA 3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: BLANK 8/2/99

Lab Name: SCILAB GROUP OF ALBANY Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: GW-02

Matrix: (soil/water) WATER Lab Sample ID: BLK 8/2/99

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: F2700

Level: (low/med) LOW Date Received: 8/17/99

% Moisture: not dec. 100 Date Analyzed: 8/23/99

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
121-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5	U
127-18-4	1,2-Dibromomethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
	Xylene (total)	5	U
79-34-5	1,1,1,2-Tetrachloroethane	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
79-34-5	1,3-Dichlorobenzene	5	U
79-34-5	1,4-Dichlorobenzene	5	U
79-34-5	1,2-Dichlorobenzene	5	U
79-34-5	1,2-Dibromo-3-Chloropropane	10	U

Quantitation Report (QT Reviewed)

Data File : F:\MS VOA BACKUP\0823A\2700.D
Acq On : 23 Aug 1999 6:42 pm
Sample : VBLKW
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 13:56 1999

Vial: 3
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	213621	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	300662	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	268932	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	231684	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	86633	49.53	ug/l	0.00
Spiked Amount 50.000			Recovery = 99.06%			
46) Toluene-d8	15.59	98	373409	52.86	ug/l	0.00
Spiked Amount 50.000			Recovery = 105.72%			
65) Bromofluorobenzene	19.87	95	140448	45.92	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.84%			

Target Compounds Qvalue

000136

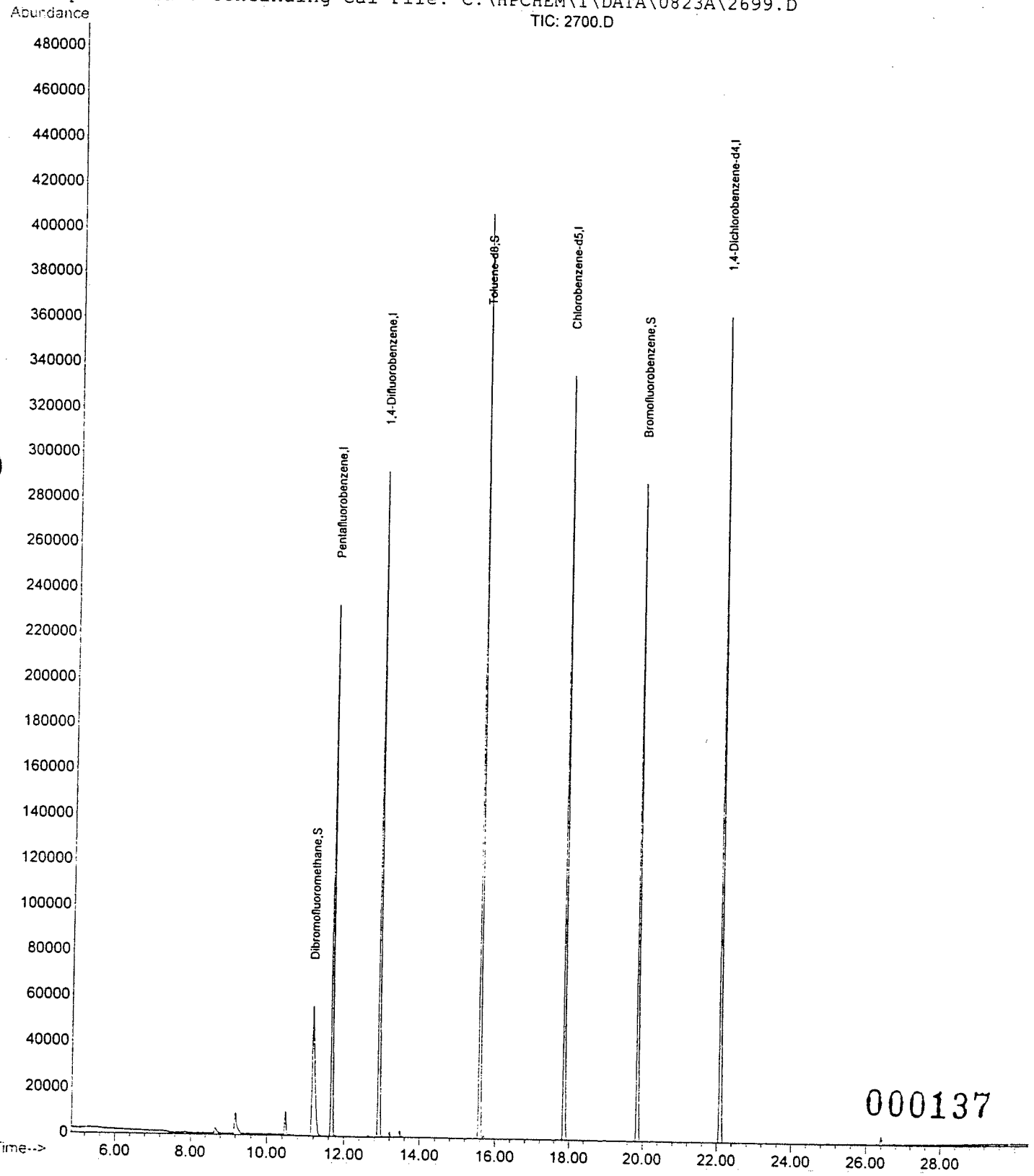
(#) = qualifier out of range (m) = manual integration
2700.D QUICKBFB.M Mon Oct 11 16:43:39 1999

Data File : F:\MS VOA BACKUP\0823A\2700.D
Acq On : 23 Aug 1999 6:42 pm
Sample : VBLKW
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 13:56 1999

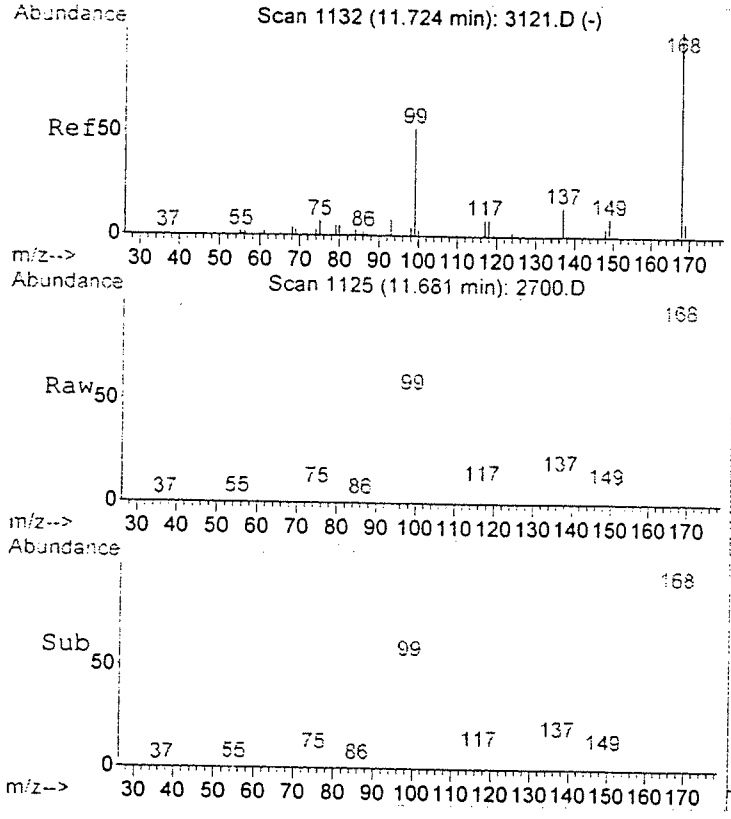
Vial: 3
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\QUICKBFB.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Wed Oct 06 12:36:20 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



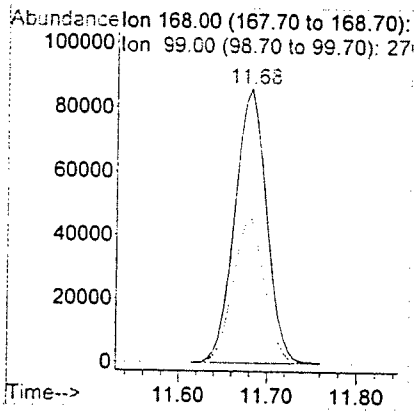
000137

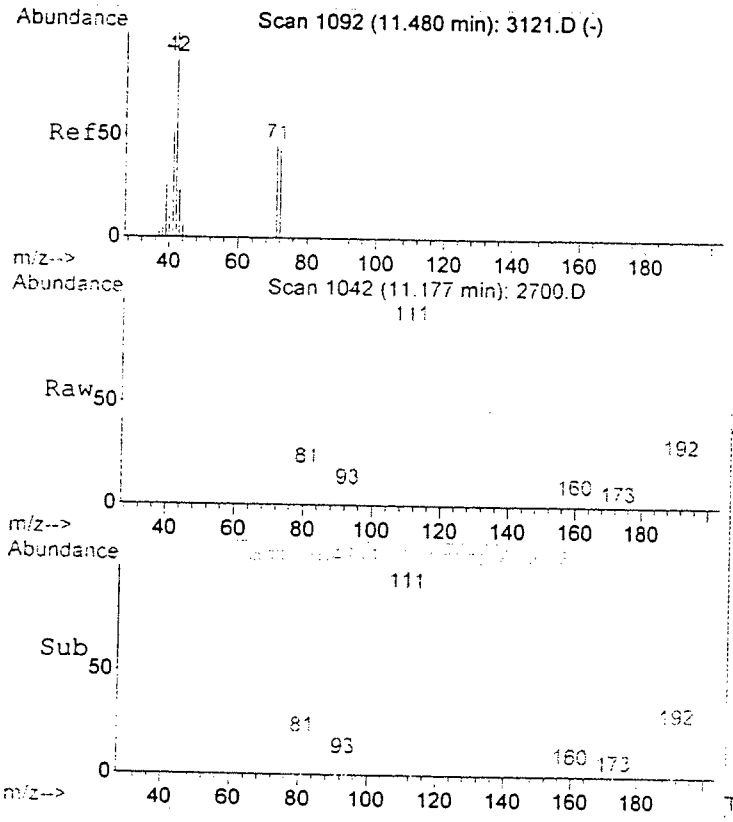


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 11.68 min Scan# 1125
Delta R.T. 0.00 min
Lab File: 2700.D
Acq: 23 Aug 1999 6:42 pm

Tgt Ion:168 Resp: 213621

Ion	Ratio	Lower	Upper
168	100		
99	52.5	44.1	66.1

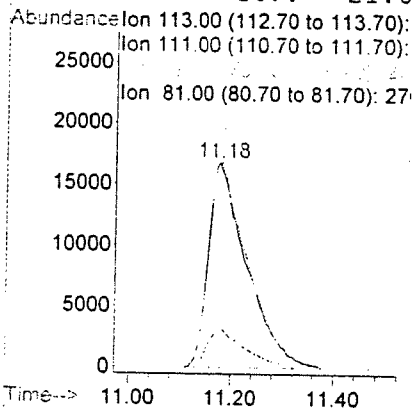




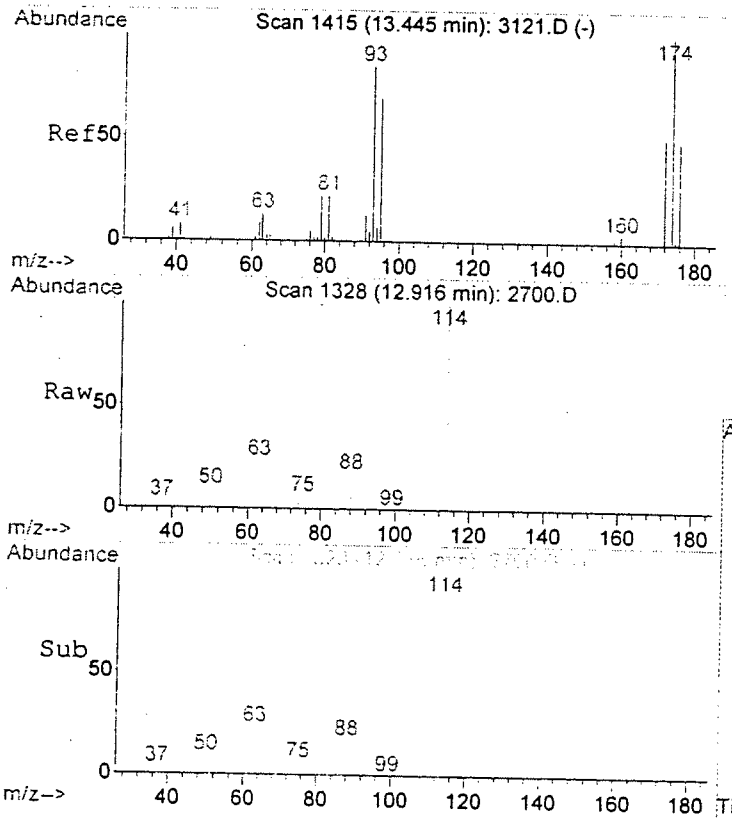
#27
Dibromofluoromethane
Concen: 49.53 ug/l
RT: 11.18 min Scan# 1042
Delta R.T. -0.00 min
Lab File: 2700.D
Acq: 23 Aug 1999 6:42 pm

Tgt Ion:113 Resp: 86633

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.0	121.6
79	18.5	15.4	23.0
81	18.4	14.4	21.6

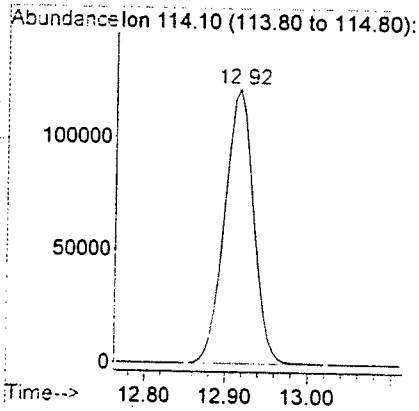


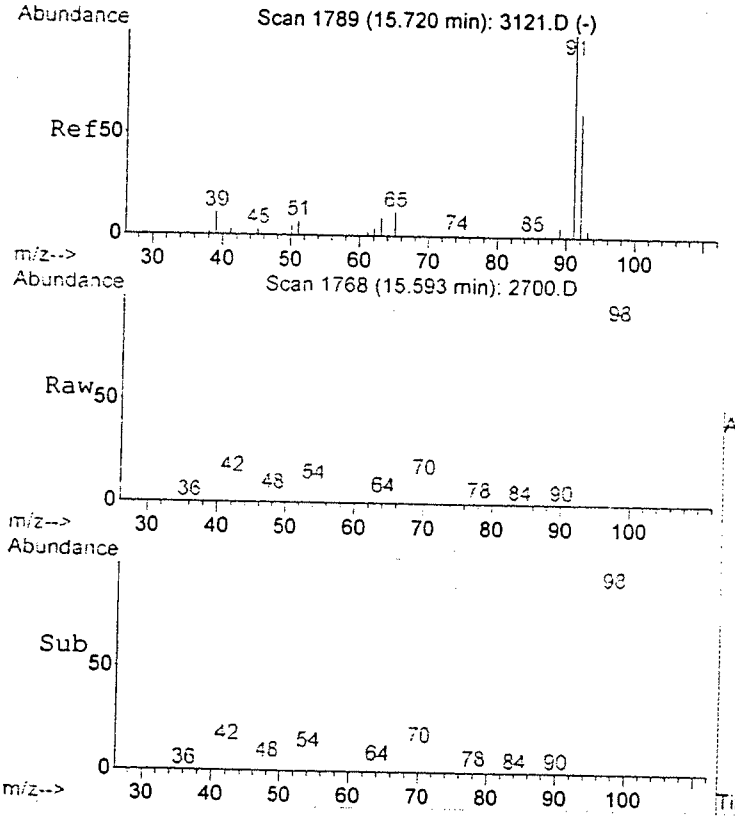
000138



#35
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 12.92 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 2700.D
Acq: 23 Aug 1999 6:42 pm

Tgt Ion:114 Resp: 300662

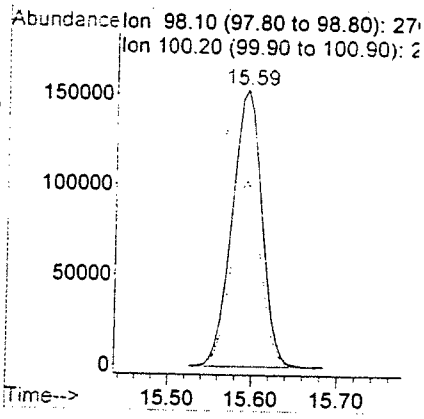




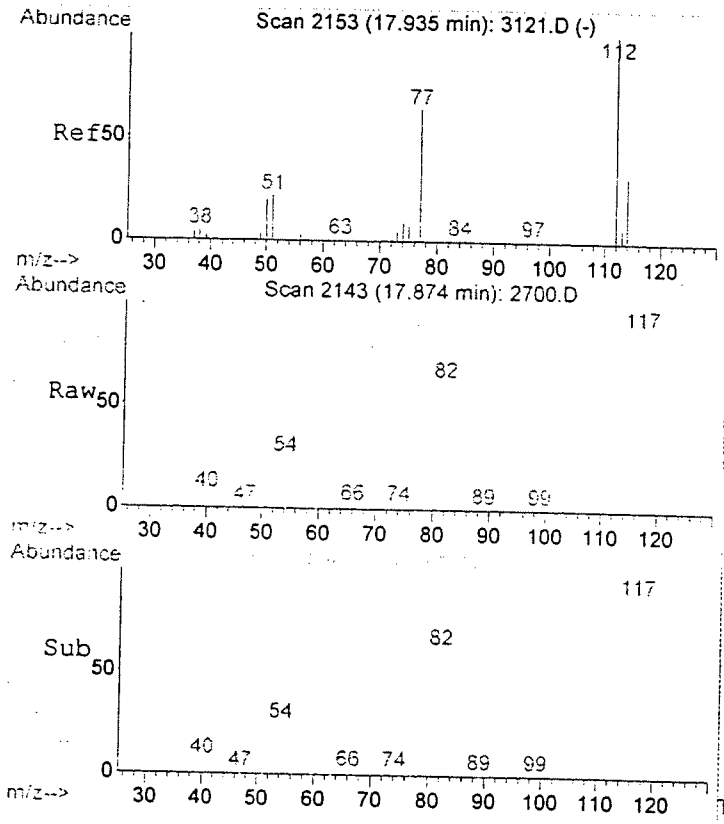
#46
Toluene-d8
Concen: 52.86 ug/l
RT: 15.59 min Scan# 1768
Delta R.T. 0.00 min
Lab File: 2700.D
Acq: 23 Aug 1999 6:42 pm

Tgt Ion: 98 Resp: 373409

Ion	Ratio	Lower	Upper
98	100		
100	66.5	54.2	81.2



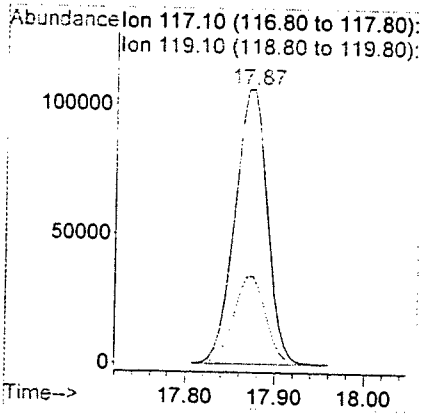
000139

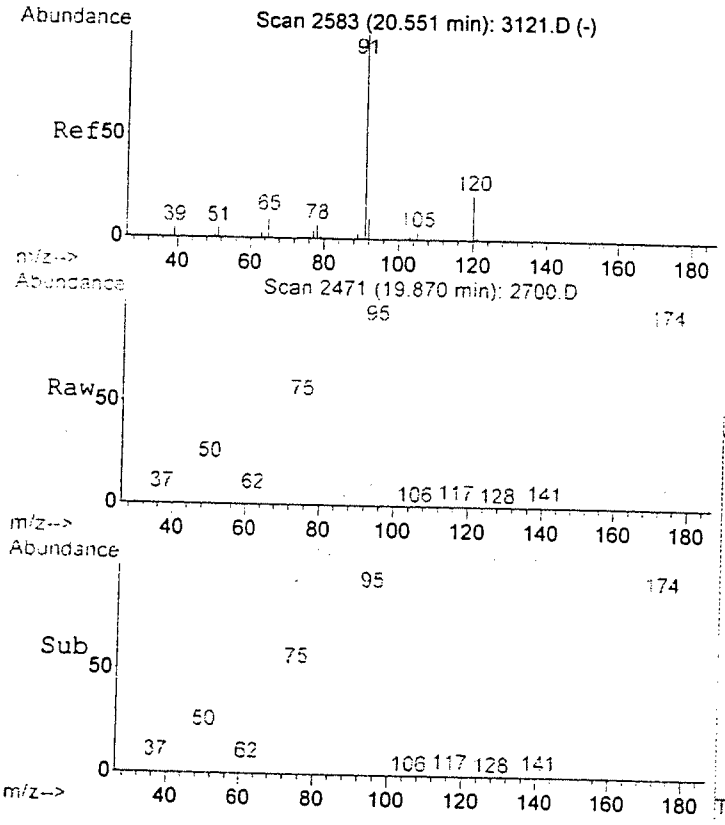


#54
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 17.87 min Scan# 2143
Delta R.T. 0.00 min
Lab File: 2700.D
Acq: 23 Aug 1999 6:42 pm

Tgt Ion:117 Resp: 268932

Ion	Ratio	Lower	Upper
117	100		
119	31.9	25.9	38.9

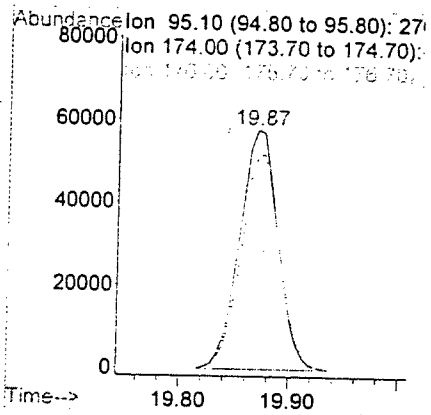




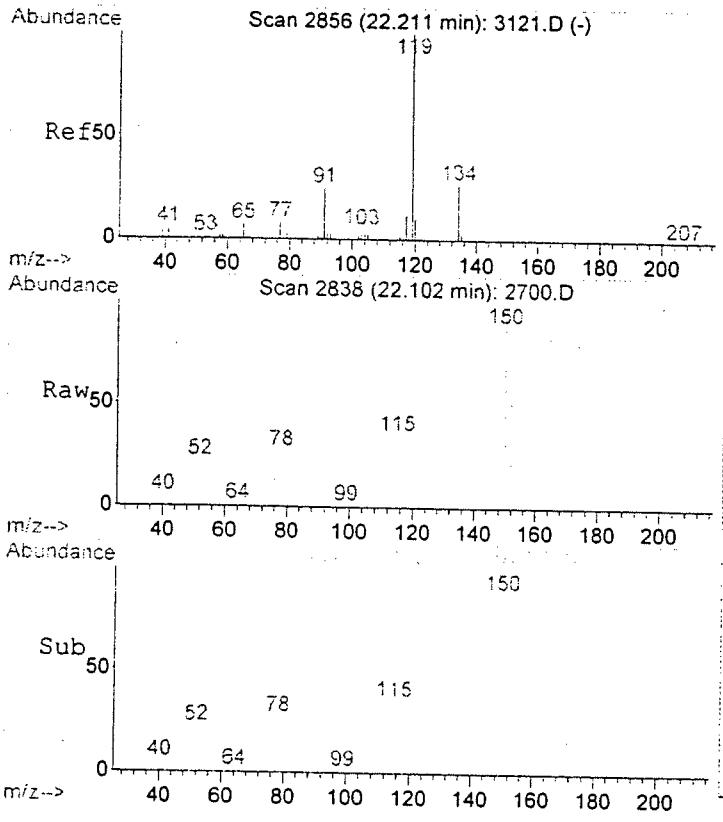
#65
Bromofluorobenzene
Concen: 45.92 ug/l
RT: 19.87 min Scan# 2471
Delta R.T. -0.00 min
Lab File: 2700.D
Acq: 23 Aug 1999 6:42 pm

Tgt Ion: 95 Resp: 140448

Ion	Ratio	Lower	Upper
95	100		
174	90.4	63.3	94.9
176	87.7	62.9	94.3

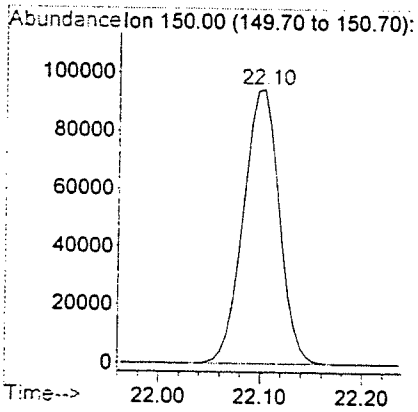


000140



#76
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 22.10 min Scan# 2838
Delta R.T. 0.00 min
Lab File: 2700.D
Acq: 23 Aug 1999 6:42 pm

Tgt Ion:150 Resp: 231684



000141

Data File : C:\HPCHEM\1\DATA\0823A\2701.D Vial: 4
Acq On : 23 Aug 1999 7:20 pm Operator:
Sample : VBLKMSW Inst : GC/MS F
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 24 13:06 1999 Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	219389	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	299587	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	266419	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	227226	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	92503	51.50	ug/l	0.00
Spiked Amount 50.000			Recovery = 103.00%			
46) Toluene-d8	15.59	98	368896	52.41	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.82%			
65) Bromofluorobenzene	19.87	95	138556	45.72	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.44%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	8.47	61	98854m	65.98	ug/l	
34) Benzene	12.63	78	437375	59.74	ug/l	100
38) Trichloroethene	13.53	130	100620	61.61	ug/l	99
47) Toluene	15.70	91	453849	61.82	ug/l	100
55) Chlorobenzene	17.92	112	272742	56.80	ug/l	100

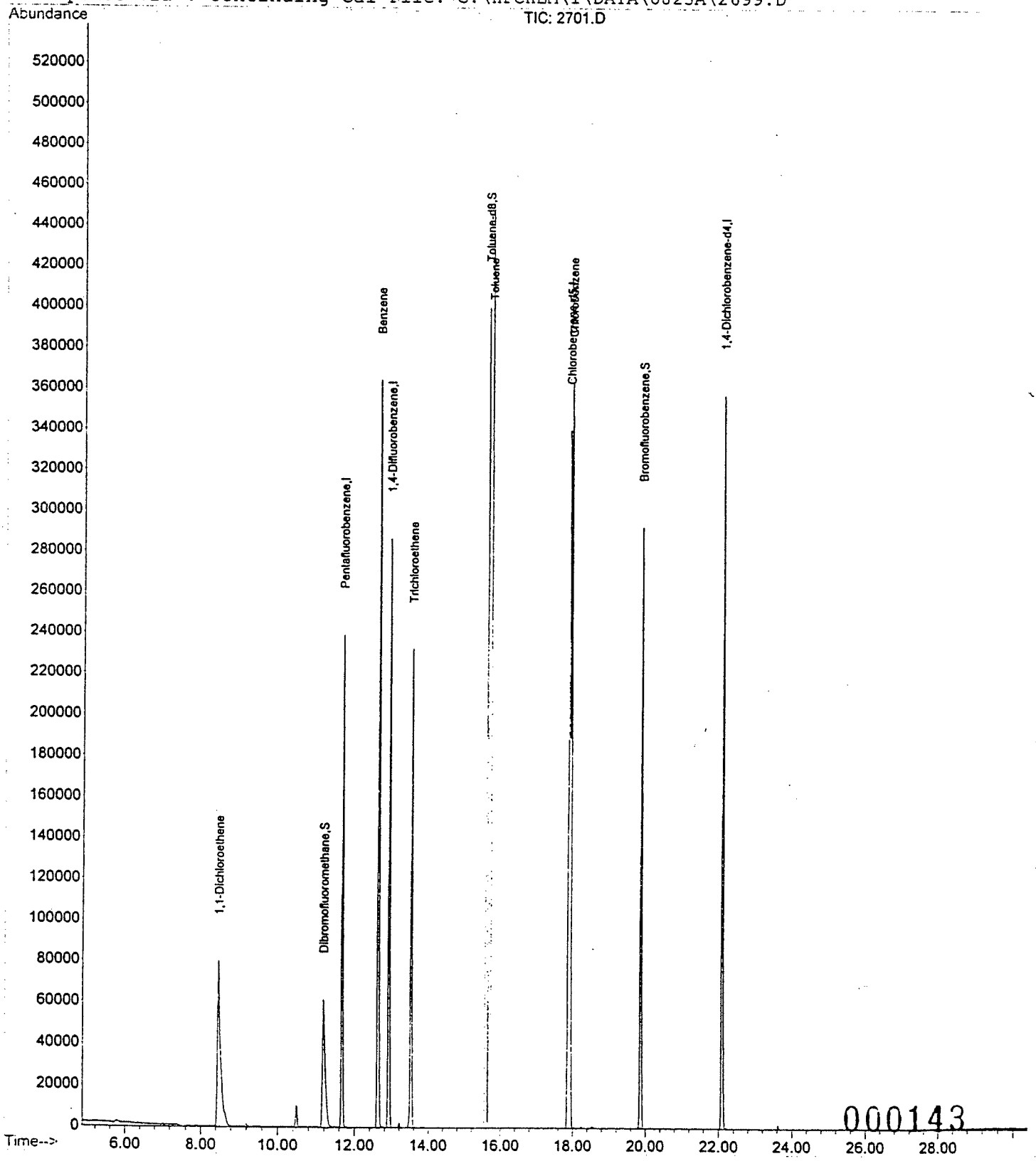
000142

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\0823A\2701.D
Acq On : 23 Aug 1999 7:20 pm
Sample : VBLKMSW
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 13:06 1999

Vial: 4
Operator:
Inst : GC/MS F
Multiplr: 1.00
Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 19:24:04 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



000143

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2711.D
Acq On : 24 Aug 1999 1:44 am
Sample : ~~9908-219-02 1.50~~ 9908-219-06 MS
Misc :
S Integration Params: rteint.p
Quant Time: Aug 24 13:28 1999

Vial: 14
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	180626	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.91	114	266939	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	243355	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	208860	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.19	113	74652	50.48	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.96%			
46) Toluene-d8	15.59	98	328147	52.32	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.64%			
65) Bromofluorobenzene	19.87	95	127205	45.96	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.92%			
Target Compounds						Qvalue
10) Acetone	7.85	43	5882	11.56	ug/l	94
12) 1,1-Dichloroethene	8.48	61	134467	109.00	ug/l	99
34) Benzene	12.63	78	399174	66.23	ug/l	100
38) Trichloroethene	13.53	130	90598	62.26	ug/l	99
47) Toluene	15.71	91	399203	61.02	ug/l	99
55) Chlorobenzene	17.93	112	253668	57.83	ug/l	100

000144

(#) = qualifier out of range (m) = manual integration
2711.D TEST1.M Tue Aug 24 13:29:00 1999

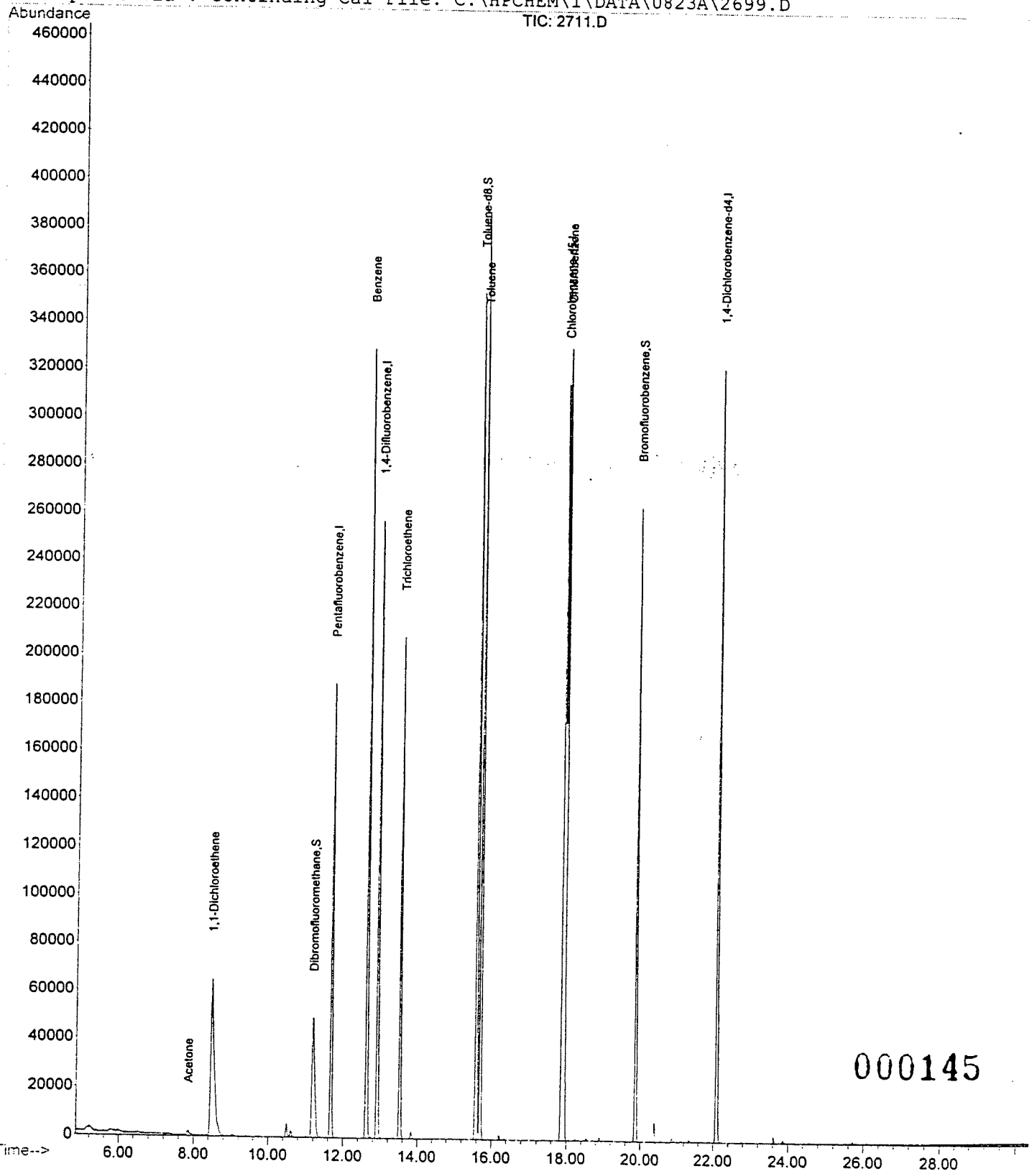
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0823A\2711.D
Acq On : 24 Aug 1999 1:44 am
Sample : ~~9908-219-02 1:50~~ 9908-219-06 MS
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 13:28 1999

Vial: 14
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 19:24:04 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



000145

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0823A\2710.D
Acq On : 24 Aug 1999 1:05 am
Sample : ~~9908-219-03~~ 9908-219-06 MSD MS
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 13:25 1999

Vial: 13
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 18:35:34 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D
DataAcq Meth : TEST1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.68	168	194185	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.92	114	285800	50.00	ug/l	0.00
54) Chlorobenzene-d5	17.87	117	258550	50.00	ug/l	0.00
76) 1,4-Dichlorobenzene-d4	22.10	150	221458	50.00	ug/l	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	11.18	113	80000	50.32	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.64%		
46) Toluene-d8	15.59	98	347892	51.81	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.62%		
65) Bromofluorobenzene	19.87	95	133399	45.36	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.72%		
Target Compounds						Qvalue
10) Acetone	7.86	43	7055	12.90	ug/l #	89
12) 1,1-Dichloroethene	8.48	61	140114	105.65	ug/l	99
34) Benzene	12.63	78	409936	63.26	ug/l	100
38) Trichloroethene	13.52	130	92873	59.61	ug/l	99
47) Toluene	15.70	91	413129	58.98	ug/l	100
55) Chlorobenzene	17.92	112	259209	55.62	ug/l	100

000146

(#) = qualifier out of range (m) = manual integration
2710.D TEST1.M Tue Aug 24 13:26:11 1999

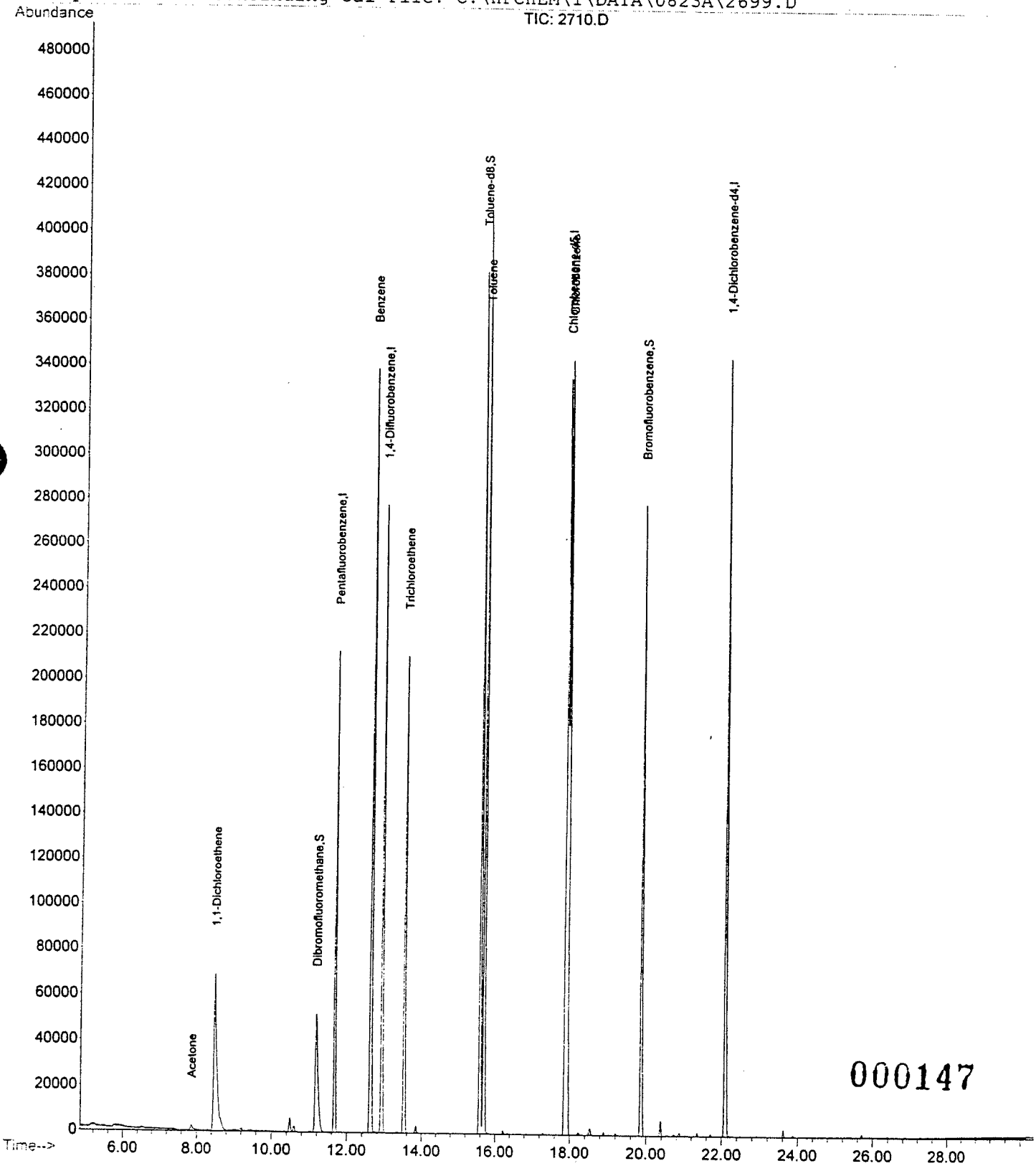
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0823A\2710.D
Acq On : 24 Aug 1999 1:05 am
Sample : ~~9908-219-03~~ 9908-219-06 MSD
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 24 13:25 1999

Vial: 13
Operator:
Inst : GC/MS F
Multiplr: 1.00

Quant Results File: TEST1.RES

Method : C:\HPCHEM\1\METHODS\TEST1.M (RTE Integrator)
Title : EPA METHOD 8260/524
Last Update : Mon Aug 23 19:24:04 1999
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0823A\2699.D



000147

INSTRUMENT F

SCI LAB OF ALBANY, INC.
INSTRUMENT LOG
GC/MS DEPARTMENT

0000148

CRN	SAMPLE ID	PROJECT #/ TASK #	RESULT (OK/NG)	METHOD	STD ID #	VOL/ WT.	TIME INJ.	DATE	ANALYST	SOP REV.	M.T. ID	COMMENTS
2684	4	port cleaning										
2685	5											
2686	6											
2687	7											
2688	8											
2689	9											
2690	10											
2691	11											
2692	12											
2693	13											
2694	14											
2695	15											
2696	16											
2697												
2698	BFB TUNE	—	OK	Test.1	MSV		1726	8.23.99	MAG/MGH			
2699	VSTD050	—					1804					
2700	VBLKW	—					1842					
2701	VBLKMSV	—					1920					
2702	9908-162 15	TB (R)		Test 1			1959	8.23.99	MAG/MGH			

SCI LAB OF ALBANY, INC.
INSTRUMENT LOG
GC/MS DEPARTMENT

INSTRUMENT _____

CRN	SAMPLE ID	PROJECT # / TASK #	RESULT (OK/NG)	METHOD	STD ID #	VOL/ WT.	TIME INJ.	DATE	ANALYST	SOP REV.	M.T. ID	COMMENTS
2703	9908-182-13	1:10		TEST 1				8/23/99	MJS			
2704	9908-182-14	1:1000										RERUN.
2705	9908-216-10	TB					2230					
2706	9908 219-01	1:100					2310					1 RERUN
2707	9908-219-04	1:100					2349					
2708	9908-219-02	1:50					0.27	8/24/99				
2709	9908-219-03						1.05					
2710	9908-219-06	MSD					1.44					
2711	9908-219-06	MS					2.22					
2712	9908-219-06						3.01					
2713	9908-219-05	TB.					9.39					
2714	9908-221-04	1:10000 (R)	NG	TEST 1			10.45					
2715	BFB		OK	TEST 1			11.30					
2716	VSTD050		NG				12.02					
2717	VBLKW		↓				12.40					
2718	VSTD06D		OK				13.18					
2719	VBLKW						13.56					
27[illegible]	VBLKSW						14.34	8/24/99				
	9908-219-05	TB (R)										

000149

INSTRUMENT F

SCI LAB OF ALBANY, INC.
INSTRUMENT LOG
GC/MS DEPARTMENT

00150

CRN	SAMPLE ID	PROJECT # / TASK #	RESULT (ON/NG)	METHOD	STD ID #	VOL/ WT.	TIME INJ.	DATE	ANALYST	SOP REV.	M.T. ID	COMMENTS
2722	9908-219-01	1:50 (R)		Test 1	~		15:12	8-24-99	MJS/MAG			
2723	-04	1:50			~		16:17					
2724	-02	1:50			~		16:55					
2725	-03				~		17:33					
2726	-06						18:12					
2727	Tune			8260S				8-24-99	MAG			
2728	VSTD050											
2729	VBLKMJS											
2730	VBLKMSS											
2731	08-234-04											
2732	-04	MS										
2733	-04	MSD										
2734	-06											
2735	08-249-01	10X										
2736	-03											
2737	-02	10X										
2738	-03											
2739	Tune			8260S				8-25-99	MAG			
2740	VSTD005											



Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

Vertex Eng. Services, Inc.

Long Island City, New York
Project: Carmel
STL Lab. #: 225129
Matrix: Water
1 of 1

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

NEW YORK DEPARTMENT OF CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

Laboratory Sample ID	Matrix	Date Collected	Date Received at Laboratory	Date Analyzed
225129-01	Water	1/18/01	1/18/01	1/19/01
225129-02	Water	1/18/01	1/18/01	1/19/01
225129-03	Water	1/18/01	1/18/01	1/19/01
225129-04	Water	1/18/01	1/18/01	1/19/01
225129-05	Water	1/18/01	1/18/01	1/19/01
225129-06	Water	1/18/01	1/18/01	1/19/01
225129-07	Water	1/18/01	1/18/01	1/19/01

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*PEST PCBs Method #	*Metals	*Other
GW-01	225129-01	121					
GW-02	225129-02	121					
GW-03	225129-03	121					
GW-04B	225129-04	121					
GW-05	225129-05	121					
TB011801	225129-06	121					
RB011801	225129-07	121					

*See attached summary of methodology for method numbers.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890

	Analysis	Aqueous	Ground Water Liquid/Solid Matrices
1	% Solid	EPA 160.3(A)	EPA 160.3(A)
2	Alkalinity-Tit.	SM182320-B(Q)	
3	Ammonia	SM184500-NH3E(Q)	
4	Ammonia	SM184500-NH3F(Q)	
5	Ammonia	LAC107061A(U)	
6	Antimony	EPA 204.2(A,D)	
7	Antimony	SM183113(Q)	
8	Arsenic	EPA 206.2(A,D)	
9	Arsenic		SW846-7060A(B,D)
10	Arsenic	SM183113(Q)	
11	Beryllium	SM183113(Q)	
12	BOD	SM185210-B(Q)	
13	Bromide	EPA 300(A)	
14	Cadmium	SM183113(Q)	
15	CBOD	SM185210-B(Q)	
16	Chloride	SM184500-CL-B(Q)	
17	Chloride(DW)	SM174500-CL-B(N)	
18	Chloride-IC	EPA 300(A)	
19	COD (high)	EPA 410.4(A)	
20	COD (low)	HACH 8000(W)	
21	Color	SM18 2120-B(Q)	
22	Coliform, Total-MF	SM18 9222B(Q)	
23	Coliform, Total	SM18 9223-MPN(Q)	
24	Conductivity	SM182510-B(Q)	
25	Cyanide	SM184500-CNE(Q)	
26	Cyanide		SW846-9010B(B)
27	Cyanide	LAC204001A(R)	
28	Cyanide, Amenable	SM184500-CNG(Q)	SW846-9010B(B)
29	Dissolved Oxygen	SM184500-O-C(Q)	
30	DRO		EPA DRO Draft Rev.5 (Y)
31	Enterococcus	ENTEROLERT	
32	E.Coli	SM18 9223-MPN(Q)	
33	Eptox		SW846-1310A(B)
34	Ethylene glycol	NYSDEC 89-9(M)	
35	ETPH	(AA)	
36	F. Coli-MF	SM189222C(Q)	
37	F. Coli-MF	SM189222D(Q)	

38	F. Coli-MPN	SM189221C(Q)	
39	Ferrous Iron	SM183500-FED(Q)	
40	Flashpoint		SW846-1010(B)
41	Fluoride, Total	EPA 340.2(A)	EPA 340.2(A)
42	Fluoride, Total	EPA 300(A)	
43	Grease & Oil	SM185520-B(Q)	
44	Grease & Oil	EPA 413.1 (A)	
45	GRO		EPA GRO Draft Rev. 5(Y)
46	Hardness, Total	EPA 200.7(A)	
47	Hardness, Total	EPA 130.2(A)	
48	Heat of Combustion	D2015(X)	
49	Herbicides		SW846-8151A(B)
50	Herbicides	EPA 515.1(L)	
51	Hex Chrome		SW846-7196A(B)
52	Hex Chrome	SM183500-Cr-D(Q)	
53	ICP Metals		SW846-6010B(B)
54	ICP Metals	EPA 200.7(A)	
55	Langlier Index	SM182330B(Q)	
56	Lead		SW846-7421(B,C)
57	Lead	EPA 239.2(A,D)	
58	Lead		SW846-7420(B,D)
59	Lead	SM183113(Q)	
60	MBAS	SM185540-C(Q)	
61	Mercury		SW846-7470A(B)
62	Mercury		SW846-7471A(B)
63	Mercury	EPA 245.1(A)	
64	Mercury	EPA 245.2(A)	
65	Nitrate-AA	SM174500-NO3F(N)	
66	Nitrate-IC	EPA 300(A)	
67	Nitrate-Nitrite	SM184500-NO3F(Q)	
68	Nitrate-Nitrite	LAC107041A(T)	
69	Nitrite	EPA 354.1(A)	
70	Nitrite	SM184500-NO2-B(Q)	
71	Odor	SM182150(Q7)	
72	Organochlorine PSTs		SW846-8081A(B)
73	Organochlorine PSTs	EPA 608(F)	
74	PCB's	EPA 508(H)	
75	Pesticides/PCB's		SW846-8082(B)
76	Pesticides/PCB's	95.3(Z)	95.3(Z)
77	Pesticides/PCB's	EPA 505(H)	
78	pH		SW846-9045C(B)

79	pH	SM184500-H-B(Q)	
80	Phenols		SW846-9065(B)
81	Phenols	EPA 420.A(A)	
82	Phenols	LAC210001A(S)	
83	Phosphate, Ortho	SM184500-PE(Q)	
84	Phosphate, Total	EPA 365.3(A)	
85	Propylene glycol	Modified 8015(B)	
86	Reactivity		SW846-7.3.2(B)
87	Selenium		SW846-7740(B,D)
88	Selenium	EPA 270.2(A,D)	
89	Selenium	SM183113(Q)	
90	Semi-Volatiles		SW846-8270C(B)
91	Semi-Volatiles	EPA 625(E)	
92	Semi-volatiles	95.2(Z)	95.2(Z)
93	Semi-Volatiles	EPA 525.1(H)	
94	Specific Gravity		D1298-83
95	SS	EPA 160.5(A)	
96	Sulfate		EPA 375.4(A)
97	Sulfate	EPA 375.4(A)	
98	Sulfate	EPA 300(A)	
99	Sulfide		SM184500-SE(Q)
100	Sulfide	SM184500-SE(Q)	
101	Sulfite	SM184500-SO3B(Q)	
102	Sulfite		SM184500SO3B(Q)
103	TCLP		SW846-1311(B)
104	TDS	EPA 160.1(A)	
105	TDS	SM182540C(Q)	
106	Temperature	EPA 170.1(A)	
107	Thallium		SW846-7841(B,D)
108	Thallium	EPA 279.2(A,D)	
109	Thallium	EPA 200.9(A)	
110	Tin	EPA 282.2 (A)	
111	TOC	SM185310-B(Q)	
112	Total Kjeldahl Nitrogen	SM184500NH3-F(Q)	
113	Total Kjeldahl Nitrogen	LAC107062D(V)	
114	TOX		SW846-9020B(B)
115	TPH	EPA 418.1(A)	
116	TPH 310.13		LOAC 310.13(P)
117	TPH-Calif.	Calif. DHS 8015	Calif. DHS 8015
118	TS	EPA 160.3(A)	
119	TSS	EPA 160.2(A)	

120 Turbidity	SM182130-B(Q) and EPA 180.1(A)	
121 Volatiles Organics		SW846-8260B(B)
122 Volatiles Organics	EPA 624(E)	
123 Volatiles Organics	EPA 524.2(H)	
124 Volatiles Organics	EPA 502.2(K)	
125 Volatiles Organics	EPA 504.1(H)	
126 Volatiles Organics		SW846-8021B(B)
127 Volatiles Organics	EPA 601(F)	
128 Volatiles Organics	EPA 602(F)	
129 Volatiles Organics	95.1(Z)	95.1(Z)
130 Volatiles Organics	95.4(Z)	95.4(Z)
131 Volatiles Organics	OLC02.1(AB)	
132 Volatiles Organics	OLM03.2(AC)	

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AC. USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration

CASE NARRATIVE
Client: Vertex Eng. Services, Inc.
Date: 2/19/01
STL Lab No.: 225129
Page 1 of 1

Volatile Organics

Sample Dilution

The following sample was diluted at the indicated amount due to compounds that exceed the linear calibration range:

GW-03DL (225129-03DL): 5x

Matrix Spike/Matrix Spike Duplicate

The percent recovery for toluene in client ID GW-02MS (225129-02MS) falls outside the acceptable limits. It is important to note, however, that the recovery in the associated matrix spike blank is acceptable.

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Client ID:	GW-01	Date Collected:	18-JAN-01
STL Sample Number:	225129-01	Date Received:	18-JAN-01
Client Name:	VERTEX ENG. SERVICES, INC.	Date Extracted:	
Project Name:	CARMEL	Date Analyzed:	19-JAN-01
% Solid:	NA	Report Date:	09-FEB-01
Matrix:	2 GW/WW	Column:	DB-624
Sample Wt/Vol:	5ml	Lab File Id:	W4176.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	1		U
108-86-1	Bromobenzene	1		U
74-97-5	Bromochloromethane	1		U
75-27-4	Bromodichloromethane	1		U
75-25-2	Bromoform	1		U
74-83-9	Bromomethane	1		U
104-51-8	n-Butylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
56-23-5	Carbon tetrachloride	1		U
108-90-7	Chlorobenzene	1		U
75-00-3	Chloroethane	1		U
67-66-3	Chloroform	1	.6	J
74-87-3	Chloromethane	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
74-95-3	Dibromomethane	1		U
95-50-1	1,2-Dichlorobenzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	1		U
75-34-3	1,1-Dichloroethane	1		U
107-06-2	1,2-Dichloroethane	1		U
75-35-4	1,1-Dichloroethene	1		U
156-59-4	cis-1,2-Dichloroethene	1		U
156-60-5	trans-1,2-Dichloroethene	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
10061-02-6	trans-1,3-Dichloropropene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
590-20-7	2,2-Dichloropropane	1		U
563-58-6	1,1-Dichloropropene	1		U
100-41-4	Ethylbenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
98-82-8	Isopropyl benzene	1		U
99-87-6	4-Isopropyltoluene	1		U
75-09-2	Methylene chloride	1		U
91-20-3	Naphthalene	1		U
103-65-1	n-Propylbenzene	1		U
100-42-5	Styrene	1		U

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Results are continued from the previous page for 225129-01

CAS NO.	Compound	ug/l	ug/l	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
127-18-4	Tetrachloroethene	1	9.7	
108-88-3	Toluene	1		U
87-61-6	1,2,3-Trichlorobenzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
71-55-6	1,1,1-Trichloroethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
79-01-6	Trichloroethene	1		U
75-69-4	Trichlorofluoromethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
75-01-4	Vinyl chloride	1		U
95-47-6	o-Xylene	1		U
108-38-3/106-42-3	m,p-Xylene	1		U
96-12-8	1,2-Dibromo-3-chloropropane	1		U
1634-04-4	MTBE	1		U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

GW-01

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:225129-01

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4176

Level: (low/med) LOW Date Received: 1/18/01

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Client ID:	GW-02	Date Collected:	18-JAN-01
STL Sample Number:	225129-02	Date Received:	18-JAN-01
Client Name:	VERTEX ENG. SERVICES, INC.	Date Extracted:	
Project Name:	CARMEL	Date Analyzed:	19-JAN-01
% Solid:	NA	Report Date:	09-FEB-01
Matrix:	2 GW/WW	Column:	DB-624
Sample Wt/Vol:	5ml	Lab File Id:	W4177.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	1		U
108-86-1	Bromobenzene	1		U
74-97-5	Bromochloromethane	1		U
75-27-4	Bromodichloromethane	1		U
75-25-2	Bromoform	1		U
74-83-9	Bromomethane	1		U
104-51-8	n-Butylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
56-23-5	Carbon tetrachloride	1		U
108-90-7	Chlorobenzene	1		U
75-00-3	Chloroethane	1		U
67-66-3	Chloroform	1		U
74-87-3	Chloromethane	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
74-95-3	Dibromomethane	1		U
95-50-1	1,2-Dichlorobenzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	1		U
75-34-3	1,1-Dichloroethane	1		U
107-06-2	1,2-Dichloroethane	1		U
75-35-4	1,1-Dichloroethene	1		U
156-59-4	cis-1,2-Dichloroethene	1		U
156-60-5	trans-1,2-Dichloroethene	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
10061-02-6	trans-1,3-Dichloropropene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
590-20-7	2,2-Dichloropropane	1		U
563-58-6	1,1-Dichloropropene	1		U
100-41-4	Ethylbenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
98-82-8	Isopropyl benzene	1		U
99-87-6	4-Isopropyltoluene	1		U
75-09-2	Methylene chloride	1		U
91-20-3	Naphthalene	1		U
103-65-1	n-Propylbenzene	1		U
100-42-5	Styrene	1		U

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Results are continued from the previous page for 225129-02

CAS NO.	Compound	ug/l	ug/l	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
127-18-4	Tetrachloroethene	1	8.8	
108-88-3	Toluene	1		U
87-61-6	1,2,3-Trichlorobenzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
71-55-6	1,1,1-Trichloroethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
79-01-6	Trichloroethene	1		U
75-69-4	Trichlorofluoromethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
75-01-4	Vinyl chloride	1		U
95-47-6	o-Xylene	1		U
108-38-3/106-42-3	m,p-Xylene	1		U
96-12-8	1,2-Dibromo-3-chloropropane	1		U
1634-04-4	MTBE	1		U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-02

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:225129-02

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4177

Level: (low/med) LOW Date Received: 1/18/01

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Client ID:	GW-03	Date Collected:	18-JAN-01
STL Sample Number:	225129-03	Date Received:	18-JAN-01
Client Name:	VERTEX ENG. SERVICES, INC.	Date Extracted:	
Project Name:	CARMEL	Date Analyzed:	19-JAN-01
% Solid:	NA	Report Date:	09-FEB-01
Matrix:	2 GW/WW	Column:	DB-624
Sample Wt/Vol:	5ml	Lab File Id:	W4178.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	1		U
108-86-1	Bromobenzene	1		U
74-97-5	Bromochloromethane	1		U
75-27-4	Bromodichloromethane	1		U
75-25-2	Bromoform	1		U
74-83-9	Bromomethane	1		U
104-51-8	n-Butylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
56-23-5	Carbon tetrachloride	1		U
108-90-7	Chlorobenzene	1		U
75-00-3	Chloroethane	1		U
67-66-3	Chloroform	1		U
74-87-3	Chloromethane	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
74-95-3	Dibromomethane	1		U
95-50-1	1,2-Dichlorobenzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	1		U
75-34-3	1,1-Dichloroethane	1		U
107-06-2	1,2-Dichloroethane	1		U
75-35-4	1,1-Dichloroethene	1		U
156-59-4	cis-1,2-Dichloroethene	1		U
156-60-5	trans-1,2-Dichloroethene	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
10061-02-6	trans-1,3-Dichloropropene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
590-20-7	2,2-Dichloropropane	1		U
563-58-6	1,1-Dichloropropene	1		U
100-41-4	Ethylbenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
98-82-8	Isopropyl benzene	1		U
99-87-6	4-Isopropyltoluene	1		U
75-09-2	Methylene chloride	1		U
91-20-3	Naphthalene	1		U
103-65-1	n-Propylbenzene	1		U
100-42-5	Styrene	1		U

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Results are continued from the previous page for 225129-03

CAS NO.	Compound	ug/l	ug/l	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
127-18-4	Tetrachloroethene	1		U
108-88-3	Toluene	1		U
87-61-6	1,2,3-Trichlorobenzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
71-55-6	1,1,1-Trichloroethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
79-01-6	Trichloroethene	1		U
75-69-4	Trichlorofluoromethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
75-01-4	Vinyl chloride	1		U
95-47-6	o-Xylene	1		U
108-38-3/106-42-3	m,p-Xylene	1		U
96-12-8	1,2-Dibromo-3-chloropropane	1		U
1634-04-4	MTBE	1	250	E

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-03

Lab Name: STL NEWBURGH Contract: CARMEL, NY

Lab Code: 10142 Case No.: SAS No.: SDG No.: VE129

Matrix: (soil/water) WATER Lab Sample ID: 225129-03

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4178

Level: (low/med) LOW Date Received: 1/18/01

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		C6H14O isomer	11.44	8.	J
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NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID: GW-03DL
STL Lab No.: 225129-03DL
Client Name: Vertex Engineering Services, Inc.
Project Name: Carmel, NY
% Solid:
Matrix: Water
Sample Wt/Vol.: 1 ml
Level: Low
Soil Extract Volume: ul

Date Collected: 1/18/01
Date Received: 1/18/01
Date Extracted:
Date Analyzed: 1/19/01
Report Date: 2/9/01
Column: DB-624
Lab File ID: W4179.D
Dilution Factor: 5
Soil Aliquot Volume: ul

2/9/01

CAS No.	Compound	Detection Limit ug/l	Conc ug/l
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
74-83-9	Bromomethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-09-2	Methylene Chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-35-3	1,1-Dichloroethane	5.0	U
590-20-7	2,2-Dichloropropane	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-59-4	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
74-97-5	Bromochloromethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
71-43-2	Benzene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
75-25-2	Bromoform	5.0	U
127-18-4	Tetrachloroethene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
108-38-3/106-42-3	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U

FORM I - VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID:	GW-03DL	Date Collected:	1/18/01
STL Lab No.:	225129-03DL	Date Received:	1/18/01
Client Name:	Vertex Engineering Services, Inc.	Date Extracted:	1/0/00
Project Name:	Carmel, NY	Date Analyzed:	1/19/01
% Solid:		Report Date:	2/9/01
Matrix:	Water	Column:	DB-624
Sample Wt/Vol.:	1 ml	Lab File ID:	W4179.D
Level:	Low	Dilution Factor:	5
Soil Extract Volume:	ul	Soil Aliquot Volume:	ul

CAS No.	Compound	Detection Limit ug/l	Conc ug/l	
96-18-4	1,2,3-Trichloropropane	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
108-86-1	Bromobenzene	5.0	U	
103-65-1	n-propylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
95-49-8	2-Chlorotoluene	5.0	U	
106-43-4	4-Chlorotoluene	5.0	U	
108-67-8	1,3,5-Trimethylbenzene	5.0	U	
98-06-6	tert-Butylbenzene	5.0	U	
95-63-6	1,2,4-Trimethylbenzene	5.0	U	
135-98-8	sec-Butylbenzene	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
99-87-6	4-Isopropyltoluene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
104-51-8	n-Butylbenzene	5.0	U	
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	
87-68-3	Hexachlorobutadiene	5.0	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	
91-20-3	Naphthalene	5.0	U	
87-61-6	1,2,3-Trichlorobenzene	5.0	U	
1634-04-4	MTBE	5.0	260.0	D

FORM I - VOA

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Client ID:	GW-04B	Date Collected:	18-JAN-01
STL Sample Number:	225129-04	Date Received:	18-JAN-01
Client Name:	VERTEX ENG. SERVICES, INC.	Date Extracted:	
Project Name:	CARMEL	Date Analyzed:	19-JAN-01
% Solid:	NA	Report Date:	09-FEB-01
Matrix:	2 GW/WW	Column:	DB-624
Sample Wt/Vol:	5ml	Lab File Id:	W4180.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	1		U
108-86-1	Bromobenzene	1		U
74-97-5	Bromochloromethane	1		U
75-27-4	Bromodichloromethane	1		U
75-25-2	Bromoform	1		U
74-83-9	Bromomethane	1		U
104-51-8	n-Butylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
56-23-5	Carbon tetrachloride	1		U
108-90-7	Chlorobenzene	1		U
75-00-3	Chloroethane	1		U
67-66-3	Chloroform	1		U
74-87-3	Chloromethane	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
74-95-3	Dibromomethane	1		U
95-50-1	1,2-Dichlorobenzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	1		U
75-34-3	1,1-Dichloroethane	1		U
107-06-2	1,2-Dichloroethane	1		U
75-35-4	1,1-Dichloroethene	1		U
156-59-4	cis-1,2-Dichloroethene	1		U
156-60-5	trans-1,2-Dichloroethene	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
10061-02-6	trans-1,3-Dichloropropene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
590-20-7	2,2-Dichloropropane	1		U
563-58-6	1,1-Dichloropropene	1		U
100-41-4	Ethylbenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
98-82-8	Isopropyl benzene	1		U
99-87-6	4-Isopropyltoluene	1		U
75-09-2	Methylene chloride	1		U
91-20-3	Naphthalene	1		U
103-65-1	n-Propylbenzene	1		U
100-42-5	Styrene	1		U

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Results are continued from the previous page for 225129-04

CAS NO.	Compound	ug/l	ug/l	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
127-18-4	Tetrachloroethene	1	29	
108-88-3	Toluene	1		U
87-61-6	1,2,3-Trichlorobenzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
71-55-6	1,1,1-Trichloroethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
79-01-6	Trichloroethene	1		U
75-69-4	Trichlorofluoromethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
75-01-4	Vinyl chloride	1		U
95-47-6	o-Xylene	1		U
108-38-3/106-42-3	m,p-Xylene	1		U
96-12-8	1,2-Dibromo-3-chloropropane	1		U
1634-04-4	MTBE	1		U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-04B

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:225129-04

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4180

Level: (low/med) LOW Date Received: 1/18/01

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Client ID:	GW-05	Date Collected:	18-JAN-01
STL Sample Number:	225129-05	Date Received:	18-JAN-01
Client Name:	VERTEX ENG. SERVICES, INC.	Date Extracted:	
Project Name:	CARMEL	Date Analyzed:	19-JAN-01
% Solid:	NA	Report Date:	09-FEB-01
Matrix:	2 GW/WW	Column:	DB-624
Sample Wt/Vol:	5ml	Lab File Id:	W4181.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	1		U
108-86-1	Bromobenzene	1		U
74-97-5	Bromochloromethane	1		U
75-27-4	Bromodichloromethane	1		U
75-25-2	Bromoform	1		U
74-83-9	Bromomethane	1		U
104-51-8	n-Butylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
56-23-5	Carbon tetrachloride	1		U
108-90-7	Chlorobenzene	1		U
75-00-3	Chloroethane	1		U
67-66-3	Chloroform	1		U
74-87-3	Chloromethane	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
74-95-3	Dibromomethane	1		U
95-50-1	1,2-Dichlorobenzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	1		U
75-34-3	1,1-Dichloroethane	1		U
107-06-2	1,2-Dichloroethane	1		U
75-35-4	1,1-Dichloroethene	1		U
156-59-4	cis-1,2-Dichloroethene	1		U
156-60-5	trans-1,2-Dichloroethene	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
10061-02-6	trans-1,3-Dichloropropene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
590-20-7	2,2-Dichloropropane	1		U
563-58-6	1,1-Dichloropropene	1		U
100-41-4	Ethylbenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
98-82-8	Isopropyl benzene	1		U
99-87-6	4-Isopropyltoluene	1		U
75-09-2	Methylene chloride	1	1.3	
91-20-3	Naphthalene	1		U
103-65-1	n-Propylbenzene	1		U
100-42-5	Styrene	1		U

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Results are continued from the previous page for 225129-05

CAS NO.	Compound	ug/l	ug/l	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
127-18-4	Tetrachloroethene	1	32	
108-88-3	Toluene	1		U
87-61-6	1,2,3-Trichlorobenzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
71-55-6	1,1,1-Trichloroethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
79-01-6	Trichloroethene	1		U
75-69-4	Trichlorofluoromethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
75-01-4	Vinyl chloride	1		U
95-47-6	o-Xylene	1		U
108-38-3/106-42-3	m,p-Xylene	1		U
96-12-8	1,2-Dibromo-3-chloropropane	1		U
1634-04-4	MTBE	1		U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-05

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:225129-05

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4181

Level: (low/med) LOW Date Received: 1/18/01

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Tel (845) 562-0890

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Client ID:	TB011801	Date Collected:	18-JAN-01
STL Sample Number:	225129-06	Date Received:	18-JAN-01
Client Name:	VERTEX ENG. SERVICES, INC.	Date Extracted:	
Project Name:	CARMEL	Date Analyzed:	19-JAN-01
% Solid:	NA	Report Date:	09-FEB-01
Matrix:	2 GW/WW	Column:	DB-624
Sample Wt/Vol:	5ml	Lab File Id:	W4182.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	1		U
108-86-1	Bromobenzene	1		U
74-97-5	Bromochloromethane	1		U
75-27-4	Bromodichloromethane	1		U
75-25-2	Bromoform	1		U
74-83-9	Bromomethane	1		U
104-51-8	n-Butylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
56-23-5	Carbon tetrachloride	1		U
108-90-7	Chlorobenzene	1		U
75-00-3	Chloroethane	1		U
67-66-3	Chloroform	1		U
74-87-3	Chloromethane	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
74-95-3	Dibromomethane	1		U
95-50-1	1,2-Dichlorobenzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	1		U
75-34-3	1,1-Dichloroethane	1		U
107-06-2	1,2-Dichloroethane	1		U
75-35-4	1,1-Dichloroethene	1		U
156-59-4	cis-1,2-Dichloroethene	1		U
156-60-5	trans-1,2-Dichloroethene	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
10061-02-6	trans-1,3-Dichloropropene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
590-20-7	2,2-Dichloropropane	1		U
563-58-6	1,1-Dichloropropene	1		U
100-41-4	Ethylbenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
98-82-8	Isopropyl benzene	1		U
99-87-6	4-Isopropyltoluene	1		U
75-09-2	Methylene chloride	1		U
91-20-3	Naphthalene	1		U
103-65-1	n-Propylbenzene	1		U
100-42-5	Styrene	1		U

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Results are continued from the previous page for 225129-06

CAS NO.	Compound	ug/l	ug/l	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
127-18-4	Tetrachloroethene	1		U
108-88-3	Toluene	1		U
87-61-6	1,2,3-Trichlorobenzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
71-55-6	1,1,1-Trichloroethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
79-01-6	Trichloroethene	1		U
75-69-4	Trichlorofluoromethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
75-01-4	Vinyl chloride	1		U
95-47-6	o-Xylene	1		U
108-38-3/106-42-3	m,p-Xylene	1		U
96-12-8	1,2-Dibromo-3-chloropropane	1		U
1634-04-4	MTBE	1		U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB011801

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:225129-06

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4182

Level: (low/med) LOW Date Received: 1/18/01

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Client ID:	RB011801	Date Collected:	18-JAN-01
STL Sample Number:	225129-07	Date Received:	18-JAN-01
Client Name:	VERTEX ENG. SERVICES, INC.	Date Extracted:	
Project Name:	CARMEL	Date Analyzed:	19-JAN-01
% Solid:	NA	Report Date:	09-FEB-01
Matrix:	2 GW/WW	Column:	DB-624
Sample Wt/Vol:	5ml	Lab File Id:	W4183.D
Level:	LOW	Dilution Factor:	1.00

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	1		U
108-86-1	Bromobenzene	1		U
74-97-5	Bromochloromethane	1		U
75-27-4	Bromodichloromethane	1		U
75-25-2	Bromoform	1		U
74-83-9	Bromomethane	1		U
104-51-8	n-Butylbenzene	1		U
135-98-8	sec-Butylbenzene	1		U
98-06-6	tert-Butylbenzene	1		U
56-23-5	Carbon tetrachloride	1		U
108-90-7	Chlorobenzene	1		U
75-00-3	Chloroethane	1		U
67-66-3	Chloroform	1		U
74-87-3	Chloromethane	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
124-48-1	Dibromochloromethane	1		U
106-93-4	1,2-Dibromoethane	1		U
74-95-3	Dibromomethane	1		U
95-50-1	1,2-Dichlorobenzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	1		U
75-34-3	1,1-Dichloroethane	1		U
107-06-2	1,2-Dichloroethane	1		U
75-35-4	1,1-Dichloroethene	1		U
156-59-4	cis-1,2-Dichloroethene	1		U
156-60-5	trans-1,2-Dichloroethene	1		U
10061-01-5	cis-1,3-Dichloropropene	1		U
10061-02-6	trans-1,3-Dichloropropene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
590-20-7	2,2-Dichloropropane	1		U
563-58-6	1,1-Dichloropropene	1		U
100-41-4	Ethylbenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
98-82-8	Isopropyl benzene	1		U
99-87-6	4-Isopropyltoluene	1		U
75-09-2	Methylene chloride	1		U
91-20-3	Naphthalene	1		U
103-65-1	n-Propylbenzene	1		U
100-42-5	Styrene	1		U

Volatile Organics Analysis Data Sheet
Form 1 VOA
8260B

Results are continued from the previous page for 225129-07

CAS NO.	Compound	ug/l	ug/l	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	1		U
108-67-8	1,3,5-Trimethylbenzene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
127-18-4	Tetrachloroethene	1		U
108-88-3	Toluene	1		U
87-61-6	1,2,3-Trichlorobenzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
71-55-6	1,1,1-Trichloroethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
79-01-6	Trichloroethene	1		U
75-69-4	Trichlorofluoromethane	1		U
96-18-4	1,2,3-Trichloropropane	1		U
95-63-6	1,2,4-Trimethylbenzene	1		U
75-01-4	Vinyl chloride	1		U
95-47-6	o-Xylene	1		U
108-38-3/106-42-3	m,p-Xylene	1		U
96-12-8	1,2-Dibromo-3-chloropropane	1		U
1634-04-4	MTBE	1		U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB011801

Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:225129-07

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4183

Level: (low/med) LOW Date Received: 1/18/01

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	GW-01	101	92	96		0
02	GW-02	100	94	96		0
03	GW-02MS	106	102	103		0
04	GW-02MSD	102	95	100		0
05	GW-03	101	94	98		0
06	GW-03DL	100	92	99		0
07	GW-04B	97	96	103		0
08	GW-05	103	95	102		0
09	RB011801	101	95	105		0
10	TB011801	99	90	105		0
11	VBLK733	101	95	102		0
12	VBSPK19	99	94	96		0
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(93-107)
SMC2 (BFB) = Bromofluorobenzene	(89-105)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(86-117)

2/15/01 dg

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM II VOA-1 3/90

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3B

WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Client Name: Vertex Eng. Services, Inc.

Matrix Spike - Client Sample No.: VBSPK19

Matrix Spike - STL Sample No.: VBSPK19

Instrument ID: MSD2

Date of Analysis: 01/19/01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	20	0	22	109	(73-133)
Trichloroethene	20	0	24	121	(74-127)
Benzene	20	0	22	109	(73-131)
Toluene	20	0	22	111	(81-123)
Chlorobenzene	20	0	22	112	(77-127)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

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3B

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Newburgh Client Name: Vertex Eng. Services, Inc.

Matrix Spike - Client Sample No.: GW-02

Matrix Spike - STL Sample No.: 225129-02

Instrument ID: MSD2

Date of Analysis: 1/19/01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC. LIMITS REC.
1,1-Dichloroethene	20	0	24	119		(73-133)
Trichloroethene	20	0	25	124		(74-127)
Benzene	20	0	24	118		(73-131)
Toluene	20	0	25	124	*	(81-123)
Chlorobenzene	20	0	24	120		(77-127)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	REC.
1,1-Dichloroethene	20	23	115		3		22	(73-133)
Trichloroethene	20	25	124		0		24	(74-127)
Benzene	20	23	115		2		21	(73-131)
Toluene	20	24	118		5		21	(81-123)
Chlorobenzene	20	24	118		1		21	(77-127)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

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4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK733

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Lab File ID:W4175 Lab Sample ID:VBLK733

Date Analyzed: 1/19/01 Time Analyzed:1414

GC Column:DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:MSD2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-01	225129-01	W4176	1518
02	GW-02	225129-02	W4177	1558
03	GW-02MS	225129-02MS	W4185	2121
04	GW-02MSD	225129-02MSD	W4186	2201
05	GW-03	225129-03	W4178	1638
06	GW-03DL	225129-03DL	W4179	1719
07	GW-04B	225129-04	W4180	1759
08	GW-05	225129-05	W4181	1839
09	RB011801	225129-07	W4183	2000
10	TB011801	225129-06	W4182	1920
11	VBSPK19	VBSPK19	W4184	2040
12				
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COMMENTS:

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK733

Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:VBLK733

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4175

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.	U
74-87-3	Chloromethane	1.	U
75-01-4	Vinyl Chloride	1.	U
74-83-9	Bromomethane	1.	U
75-00-3	Chloroethane	1.	U
75-69-4	Trichlorofluoromethane	1.	U
75-35-4	1,1-Dichloroethene	1.	U
75-09-2	Methylene Chloride	1.	U
156-60-5	trans-1,2-Dichloroethylene	1.	U
75-34-3	1,1-Dichloroethane	1.	U
590-20-7	2,2-Dichloropropane	1.	U
159-59-4	cis-1,2-Dichloroethene	1.	U
67-66-3	Chloroform	1.	U
563-58-6	1,1-Dichloropropene	1.	U
107-06-2	1,2-Dichloroethane	1.	U
74-97-5	Bromochloromethane	1.	U
71-55-6	1,1,1-Trichloroethane	1.	U
56-23-5	Carbon Tetrachloride	1.	U
71-43-2	Benzene	1.	U
79-01-6	Trichloroethene	1.	U
78-87-5	1,2-Dichloropropane	1.	U
74-95-3	Dibromomethane	1.	U
75-27-4	Bromodichloromethane	1.	U
10061-01-5	cis-1,3-Dichloropropene	1.	U
10061-02-6	trans-1,3-Dichloropropene	1.	U
79-00-5	1,1,2-Trichloroethane	1.	U
142-28-9	1,3-Dichloropropane	1.	U
124-48-1	Dibromochloromethane	1.	U
106-93-4	1,2-Dibromoethane	1.	U
75-25-2	Bromoform	1.	U
108-88-3	Toluene	1.	U
127-18-4	Tetrachloroethene	1.	U
108-90-7	Chlorobenzene	1.	U
1634-04-4	MTBE	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.	U
100-41-4	Ethylbenzene	1.	U
95-47-6	m,p-Xylene	1.	U
95-47-6	o-Xylene	1.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK733

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:VBLK733

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4175

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	1.	U
96-18-4	1,2,3-Trichloropropane	1.	U
98-82-8	Isopropylbenzene	1.	U
108-86-1	Bromobenzene	1.	U
103-65-1	n-Propylbenzene	1.	U
79-34-5	1,1,2,2-Tetrachloroethane	1.	U
95-49-8	2-Chlorotoluene	1.	U
106-43-4	4-Chlorotoluene	1.	U
108-67-8	1,3,5-Trimethylbenzene	1.	U
98-06-6	tert-Butylbenzene	1.	U
95-63-6	1,2,4-Trimethylbenzene	1.	U
135-98-8	sec-Butylbenzene	1.	U
541-73-1	1,3-Dichlorobenzene	1.	U
99-87-6	4-Isopropyltoluene	1.	U
106-46-7	1,4-Dichlorobenzene	1.	U
95-50-1	1,2-Dichlorobenzene	1.	U
104-51-8	n-Butylbenzene	1.	U
96-12-8	1,2-Dibromo-3-chloropropane	1.	U
87-68-3	Hexachlorobutadiene	1.	U
120-82-1	1,2,4-Trichlorobenzene	1.	U
91-20-3	Naphthalene	1.	U
87-61-6	1,2,3-Trichlorobenzene	1.	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK733

Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Matrix: (soil/water) WATER Lab Sample ID:VBLK733

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: W4175

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 1/19/01

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:STL NEWBURGH Contract:CARMEL, NY

Lab Code:10142 Case No.: SAS No.: SDG No.:VE129

Lab File ID (Standard):WS835 Date Analyzed: 1/19/01

Instrument ID:MSD2 Time Analyzed:1304

GC Column:DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 (FBZ) AREA	#	RT	#	IS2 (CBZ) AREA	#	RT	#				
	12 HOUR STD	777065		11.76		546257		18.67					
	UPPER LIMIT	1554130		12.26		1092514		19.17					
	LOWER LIMIT	388533		11.26		273129		18.17					
	EPA SAMPLE NO.												
01	VBLK733	798930		11.76		549257		18.68					
02	GW-01	822846		11.76		567350		18.68					
03	GW-02	726371		11.76		503259		18.67					
04	GW-03	762297		11.76		500693		18.68					
05	GW-03DL	687837		11.76		492544		18.68					
06	GW-04B	729771		11.76		514819		18.68					
07	GW-05	724339		11.76		503363		18.66					
08	TB011801	682848		11.76		493979		18.67					
	RB011801	667166		11.76		459446		18.67					
	VBSPK19	758626		11.76		526853		18.66					
11	GW-02MS	605186		11.74		402817		18.66					
12	GW-02MSD	713941		11.76		500295		18.66					
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (FBZ) = Fluorobenzene 2/15/01 dg

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA 3/90

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SAMPLE DATA SUMMARY PACKAGE

McLaren/Hart
Warren, New Jersey
Project: 12-0806098001001
STL Lab. #: 213193
Matrix: Water
1 of 1

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CASE NARRATIVE
Client: McLaren/Hart
Date: 3/3/00
STL Lab No.: 213193
Page 1 of 1

Volatiles

Tentatively Identified Compounds

The parameter MTBE is contained in the standard mixture that was used to prepare the initial calibration. Although MTBE is not a method parameter it was positively identified and quantified in client ID GW-03 (213193-05). Therefore, MTBE has been reported as a TIC parameter without the "J" qualifier indicating a true calculated result.

NEW YORK DEPARTMENT OF CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

Laboratory Sample ID	Matrix	Date Collected	Date Received at Laboratory	Date Analyzed
213193-01	Water	2/18/00	2/18/00	2/23/00
213193-02	Water	2/18/00	2/18/00	2/23/00
213193-03	Water	2/18/00	2/18/00	2/23/00
213193-04	Water	2/18/00	2/18/00	2/23/00
213193-05	Water	2/18/00	2/18/00	2/23/00
213193-06	Water	2/18/00	2/18/00	2/23/00
213193-07	Water	2/18/00	2/18/00	2/23/00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB021800

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-01

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4171

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB021800

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-01

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4171

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB021800

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-01

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4171

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	10.87	6.	J
2.					
3.					
4.					
5.					
6.					
7.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB021800

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-02

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4172

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB021800

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-02

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4172

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB021800

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-02

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4172

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	10.86	6.	J
2.					
3.					
4.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-03

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4173

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	6.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-03

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4173

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-01

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-03

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4173

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	10.85	6.	J
2.					
3.					
4.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-04

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4174

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	3.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	4.	J
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-04

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4174

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-02

Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-04

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4174

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	10.86	7.	J
2.					
3.					
4.					
5.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-05

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4175

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-05

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4175

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-03

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-05

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4175

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1634-04-4	MTBE	9.65	170.	
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-06

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4176

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	170.	
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-06

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4176

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

GW-04B

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-06

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4176

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05

Lab Name: SEVERN TRENT LABS Contract: 12-08060980

Lab Code: 10142 Case No.: SAS No.: SDG No.: MC193

Matrix: (soil/water) WATER Lab Sample ID: 213193-07

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4177

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	150.	
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-07

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4177

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-05

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:213193-07

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4177

Level: (low/med) LOW Date Received: 2/18/00

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SEVERN TRENT LABS Contract: 12-08060980

Lab Code: 10142 Case No.: SAS No.: SDG No.: MC193

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	GW-01	103	91	101		0
02	GW-02	103	90	100		0
03	GW-02MS	98	97	101		0
04	GW-02MSD	102	95	100		0
05	GW-03	103	92	102		0
06	GW-04B	102	90	101		0
07	GW-05	102	91	101		0
08	RB021800	104	92	102		0
09	TB021800	104	92	100		0
10	VBLK827	103	91	100		0
11	VBLK828	103	89	100		0
12	VBSPK24	99	99	99		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(93-107) mc
SMC2 (BFB)	= Bromofluorobenzene	(89-105) 3/3/00
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(86-117)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

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3A

WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Severn Trent Laboratories Contract: _____

Lab Code: 10142 Case No.: _____ SDG No.: MC193

Matrix Spike - EPA Sample No.: VBSPK24

COMPOUND	SPIKE ADDED (ug/L)	BLANK SPIKE CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	50	100	(73-133)
Trichloroethene	50	52	104	(74-127)
Benzene	50	51	102	(73-131)
Toluene	50	51	102	(81-123)
Chlorobenzene	50	51	102	(77-127)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

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3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories Client Name: McLearen/Hart

Matrix Spike - Client Sample No.: GW-02

Matrix Spike - STL Sample No.: 213193-04

Instrument ID: MS3

Date of Analysis: 2/24/00

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENTRATION (ug/l)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	43	86	(73-133)
Trichloroethene	50	0	51	102	(74-127)
Benzene	50	0	51	102	(73-131)
Toluene	50	3.6	53	99	(81-123)
Chlorobenzene	50	0	51	102	(77-127)

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENTRATION (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	43	86	0	14	(73-133)
Trichloroethene	50	52	104	2	14	(74-127)
Benzene	50	52	104	2	11	(73-131)
Toluene	50	55	103	4	13	(81-123)
Chlorobenzene	50	51	102	0	13	(77-127)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

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4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK827

Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Lab File ID:X4170 Lab Sample ID:VBLK827

Date Analyzed: 2/23/00 Time Analyzed:1254

GC Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID:MS 3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-01	213193-03	X4173	1457
02	GW-02	213193-04	X4174	1538
03	GW-03	213193-05	X4175	1619
04	GW-04B	213193-06	X4176	1701
05	GW-05	213193-07	X4177	1742
06	RB021800	213193-02	X4172	1416
07	TB021800	213193-01	X4171	1335
08				
09				
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COMMENTS:

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK827

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:VBLK827

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4170

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK827

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:VBLK827

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4170

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK827

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:VBLK827

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4170

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 2/23/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK828

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Lab File ID:X4185 Lab Sample ID:VBLK828

Date Analyzed: 2/24/00 Time Analyzed:1503

GC Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID:MS 3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-02MS	213193-04MS	X4187	1625
02	GW-02MSD	213193-04MSD	X4188	1706
03	VBSPK24	VBSPK24	X4186	1544
04				
05				
06				
07				
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COMMENTS:

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK828

Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:VBLK828

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4185

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 2/24/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK828

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:VBLK828

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4185

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 2/24/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK828

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Matrix: (soil/water) WATER Lab Sample ID:VBLK828

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4185

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 2/24/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	10.86	7.	J
2.					
3.					
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5.					
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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Code:10142 Case No.: SAS No.: SDG No.:MC193

Lab File ID (Standard):XS978 Date Analyzed: 2/23/00

Instrument ID:MS 3 Time Analyzed:1159

GC Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	IS1(BCM) AREA #	IS1(BCM) RT #	IS2(DFB) AREA #	IS2(DFB) RT #	IS3(CBZ) AREA #	IS3(CBZ) RT #
	12 HOUR STD	426040	12.39	2012441	14.59	1879302	21.10
	UPPER LIMIT	852080	12.89	4024882	15.09	3758604	21.60
	LOWER LIMIT	213020	11.89	1006221	14.09	939651	20.60
01	VBLK827	413587	12.39	1971925	14.59	1721527	21.09
02	TB021800	377980	12.39	1880943	14.59	1637382	21.10
03	RB021800	392204	12.39	1856853	14.59	1628335	21.10
04	GW-01	386948	12.39	1831105	14.59	1614836	21.09
05	GW-02	387380	12.39	1823791	14.59	1614350	21.10
06	GW-03	392281	12.39	1867447	14.59	1654697	21.10
07	GW-04B	394737	12.39	1845738	14.59	1673582	21.10
08	GW-05	391585	12.39	1843086	14.59	1631104	21.09
09							
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21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:SEVERN TRENT LABS Contract:12-08060980

Lab Code:10142 Case No.: SAS No.: SDG No.:MC193

Lab File ID (Standard):XS979 Date Analyzed: 2/24/00

Instrument ID:MS 3 Time Analyzed:1240

GC Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	439586	12.39	2144110	14.59	1991193	21.10
	UPPER LIMIT	879172	12.89	4288220	15.09	3982386	21.60
	LOWER LIMIT	219793	11.89	1072055	14.09	995597	20.60
	EPA SAMPLE NO.						
01	VBLK828	431585	12.38	2077787	14.59	1804901	21.10
02	VBSPK24	433877	12.39	2072970	14.59	1934950	21.10
03	GW-02MS	428575	12.39	1913226	14.59	1807513	21.10
04	GW-02MSD	430246	12.39	1936366	14.59	1752116	21.10
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22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

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May 30, 2000

McLaren/Hart, Inc.
25 Independence Blvd.
Warren, New Jersey 07059

Attn.: Mr. Darron Hopper

SUBJECT: CASE NARRATIVE, 12-0806098-001-001,
STL NUMBER 215969.

Dear Mr. Hopper:

Enclosed are the analytical results for the 12-0806098-001-001 project. The samples were received on May 10, 2000 and were prepared and analyzed according to EPA established methodologies and protocols. The reports were completed according to NYSDEC ASP Category B reporting requirements. Your evaluation of the enclosed data should incorporate the use of the attached case narrative.

I certify that this 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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

SEVERN TRENT LABORATORIES

Louis J. Cercone
Laboratory Director

CASE NARRATIVE
Client: McLaren/Hart, Inc.
Date: 5/24/00
STL Lab No. 215969
Page 1 of 1

Volatiles

Tentatively Identified Compounds

The parameter MTBE is contained in the standard mixture that was used to prepare the initial calibration. Although MTBE is not a method parameter it was positively identified and quantified in client ID GW-03 (215969-05). Therefore, MTBE has been reported as a TIC parameter without the "J" qualifier indicating a true calculated result.

Sample Dilution

The following samples were diluted at the indicated amount due to compounds that exceed the linear calibration range:

GW-04BDL (215969-06DL): 5x
GW-05DL (215969-07DL): 5x

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NEW YORK DEPARTMENT OF CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

Laboratory Sample ID	Matrix	Date Collected	Date Received at Laboratory	Date Analyzed
215969-01	Water	5/10/00	5/10/00	5/17/00
215969-02	Water	5/10/00	5/10/00	5/17/00
215969-03	Water	5/10/00	5/10/00	5/17/00
215969-04	Water	5/10/00	5/10/00	5/17/00
215969-05	Water	5/10/00	5/10/00	5/17/00
215969-06	Water	5/10/00	5/10/00	5/17/00
215969-07	Water	5/10/00	5/10/00	5/17/00

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CHAIN OF CUSTODY

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FAX (914) 562-0841

CUSTOMER NAME: McLAREN/HART, INC.
ADDRESS: 25 INDEPENDENCE BLVD
CITY, STATE, ZIP: WARREN, N.J. 07059
NAME OF CONTACT: DARRON HOPPER
PHONE NO.: (908) 647-8111
PROJECT LOCATION: CARMEL, N.Y.
PROJECT NUMBER / PO NO.: 12-0806098-001-001

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4°C.

REPORT TYPE
STANDARD ☐ ISRA ☐
NYASP A ☐ B ☒ CLP ☐
OTHER ____

TURNAROUND
☑ NORMAL ____
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
215963
SAMPLE TEMP. ____ C
pH CHECK Y ____ N ____
REVIEWED BY: ____

NY PUBLIC WATER SUPPLIES
SOURCE ID ____
ELRP TYPE ____
FEDERAL ID ____

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

STL #	SAMPLING DATE	SAMPLING TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber Sulfuric Acid	Liter Amber Organic Washed	Liter Plastic Nitric Acid	Liter Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Amber	2 oz. Qorpak	ANALYSIS REQUESTED
01	5/10/00	—		✓	WATER	TB051000	2												VOCs 8260 ASP CAT B DEL.
02		0950		✓	WATER	RB051000	3												
03		1020		✓	WATER	GW-01	3												
04		1105		✓	WATER	GW-02	3												
05				✓	WATER	GW-03	3												
06		1315		✓	WATER	GW-04B	3												
07		1320		✓	WATER	GW-05	3												

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	McLAREN/HART	5/10/00	1500				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

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SEVERN TRENT LABORATORIES
VOLATILE ORGANIC LABORATORY CHRONICLE

STL Laboratory Number: 215969

Client Project Number: 12-0806098-001-001

Date Receipt/Refrig.: 5/10/00

Date Sampled: 5/1/00

Preservative: _____

Sampled Relinquished by	Sampled Received by	Date	Time	Reason for Change of Custody
[signature]	Paul Puller	5/10/00	1600	Storage + Analysis

Date(s) of Analysis:
Volatiles-GC: 5/17/00 +1900
Volatiles-GCMS: RP

QAQC Supervisor Review and Approval: [signature] Rohl for DC

SUMMARY OF METHODOLOGY

Analysis	Aqueous	Ground Water Liquid/Solid Matrices
Volatiles Organics	EPA 624(5)	SW846-8260B(2)

References

1. "Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983.
2. "Test Methods for Evaluating Solid Waste",USEPA-SW846, Third Edition, September 1986 with all current revisions.
3. Atomic Absorption - Direct Aspiration
4. Atomic Absorption - Furnace Technique
5. Federal Register, V. 50 No. 3, January 4, 1985.
6. Federal Register, V. 49, No. 209, October 26, 1984.
7. "Standard Methods for the Examination of Water and Wastewater", 16th Edition, 1986.
8. "Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, December 1988.
9. The Anaylsis of Trihalomethanes in Finished Waters by the Purge and Trap Method, EMSL, Cincinnati, Ohio 45268, November 6, 1979.
10. Volatile Aromatic and Unsaturated Organic Compounds in Water by Purge and Trap Gas Chromatography, EMSL, Cincinnati, Ohio, 45268, Revision 2.0, (1989).
11. Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series, EMSL, Cincinnati, Ohio, 45268, Revision 2.0 (1989).
12. Determination of Chlorinated Acids in Water by Gas Chromatography with an Electron Capture Detector, EMSL, Cincinnati, Ohio, 45628, Revision 4.0 (1989).
13. "New York State Department of Environmental Conservation Analytical Services Protocol, Vol. 2, December 1991.
14. "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
15. "ASTM, Petroleum Products, Lubricants, and Fossil Fuels, Vol. 5.01 D56-D1947, 1990.
16. " Analytical Handbook for the Laboratory of Organic Analytical Chemistry", Wadsworth Center for Laboratories and Research, New York State Department of Health, August, 1991.
17. "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
18. "Determination of Cyanide" (Macro Distillation Method in Waters), QUIK CHEM Method 10-204-00-1-A, Karin Wendt, Revised June 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218.
19. "Determination of Total Recoverable Phenols by Flow Injection Analysis Colorimetry", QUIK CHEM Method 10-210-00-1-A, Ninglan Liao, Revised August 6,, 1996, Lachat Instruments, Milwaukee, Wi. 53218.

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20. "Determination of Nitrate/Nitrite in Surface and Wastewaters by Flow Injection Analysis", QUIK CHEM Method 10-107041A, Karin Wendt, Revised June 24, 1997, Zellweger Analytics, Milwaukee, Wi. 53218.
21. "Determination of Ammonia by Flow Injection Analysis Colorimetry", QUIK CHEM Method 10-107-06-1-A, Kevin Switala, Revised May 20 ,1997, Lachat Instruments, Milwaukee, Wi. 53218.
22. "Determination of Nitrogen, Total Kjeldahl by Flow Injection Analysis Colorimetry", QUIK CHEM Method 10-107-06-2-D, Kevin Switala, Revised October 7,1997, Lachat Instruments, Milwaukee, Wi. 53218.
23. "HACH Handbook", 1979.
24. "American Society for Testing and Materials", Designation: D 2015-77, 1978.

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DATA REPORTING QUALIFIERS

Data qualifiers are used in the analytical report for organics and inorganics. The qualifiers are equivalent to those used by the USEPA in its Contract Laboratory Program.

ORGANIC QUALIFIERS

U - Indicates that the compound was analyzed for but not detected. The sample detection limit is corrected for dilution and percent moisture. This detection limit is not necessarily the instrument detection limit.

J - Indicates an estimated value. This qualifier is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria and the result is less than the specified detection limit but greater than zero.

B - Indicates that the analyte was found in both the sample and its associated laboratory blank. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

C - This qualifier applies to pesticide parameters where the identification has been confirmed by gas chromatography/mass spectrometry.

E - This qualifier indicates compounds whose concentrations exceed the calibration range of the instrument for the specific analysis.

D - Indicates all compounds identified in an analysis at a secondary dilution factor.

DL - This suffix indicates a diluted sample and is appended to the sample number on the result form.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentration between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with an "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

RE - This suffix indicates a re-analyzed sample and is appended to the sample number on the result form.

RR - This suffix indicates a re-extracted and re-analyzed sample and is appended to the sample number on the result form.

INORGANICS

Concentration Qualifiers (C)

U - Indicates that the analyte was analyzed for but not detected.

B - The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

Quality Qualifiers (Q)

E - Indicates an estimated value because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

Method Qualifiers (M)

P - for ICP.
A - for Flame AA.
F - for Furnace AA.
PM - for ICP when Microwave Digestion is used.
AM - for Flame AA when Microwave Digestion is used.
FM - for Furnace AA when Microwave Digestion is used.
CV - for Manual Cold Vapor AA.
AV - for Automated Cold Vapor AA.
AS - for Semi-Automated Spectrophotometric
C - for Manual Spectrophotometric
T - for Titrimetric.
NR - if the analyte is not required to be analyzed.

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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	GW-01	101	92	101		0
02	GW-01MS	98	100	98		0
03	GW-01MSD	101	101	98		0
04	GW-02	100	93	101		0
05	GW-03	100	93	101		0
06	GW-04B	100	94	101		0
07	GW-04BDL	100	93	99		0
08	GW-05	101	95	101		0
09	GW-05DL	101	93	102		0
10	RB051000	102	94	98		0
11	TB051000	102	93	99		0
12	VBLK861	102	94	99		0
13	VBLK863	101	94	102		0
14	VBSPK17	100	100	99		0
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(93-107)
SMC2 (BFB) = Bromofluorobenzene	(89-105)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(86-107)

df 5/24/00

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

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3A

WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Severn Trent Laboratories Contract: _____

Lab Code: 10142 Case No.: _____ SDG No.: MC969

Matrix Spike - EPA Sample No.: VBSPK17

COMPOUND	SPIKE ADDED (ug/L)	BLANK SPIKE CONCENTRATION (ug/L)	BS % REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50	48	96		(73-133)
Trichloroethene	50	50	100		(74-127)
Benzene	50	51	102		(73-131)
Toluene	50	50	100		(81-123)
Chlorobenzene	50	49	99		(77-127)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

_____

969PPWS 3/90

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3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories Client Name: McLaren/Hart, Inc.

Matrix Spike - Client Sample No.: GW-01

Matrix Spike - STL Sample No.: 215969-03

Instrument ID: MS3

Date of Analysis: 5/17/00

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENTRATION (ug/l)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	47	95	(73-133)
Trichloroethene	50	0	48	97	(74-127)
Benzene	50	0	49	98	(73-131)
Toluene	50	0	47	94	(81-123)
Chlorobenzene	50	0	48	95	(77-127)

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENTRATION (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	50	99	5	14	(73-133)
Trichloroethene	50	50	100	3	14	(74-127)
Benzene	50	50	99	1	11	(73-131)
Toluene	50	50	100	6	13	(81-123)
Chlorobenzene	50	50	100	5	13	(77-127)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments:

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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK861

ab ame:Severn Trent LaboratoriesContract:12-0806098

ab Code:10142 Case No.: SAS No.: SDG No.:MC969

ab File ID:X4566 Lab Sample ID:VBLK861

ate Analyzed: 5/17/00 Time Analyzed:1038

C Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

nstrument ID:MS 3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-01	215969-03	X4572	1506
02	GW-01MS	215969-03MS	X4578	1913
03	GW-01MSD	215969-03MSD	X4579	1955
04	GW-02	215969-04	X4573	1547
05	GW-03	215969-05	X4574	1629
06	GW-04B	215969-06	X4575	1710
07	GW-04BDL	215969-06DL	X4580	2036
08	GW-05	215969-07	X4576	1751
09	RB051000	215969-02	X4571	1425
10	TB051000	215969-01	X4570	1341
11	VBSPK17	VBSPK17	X4577	1832
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COMMENTS:

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4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK863

ab Name:Severn Trent LaboratoriesContract:12-0806098

ab Code:10142 Case No.: SAS No.: SDG No.:MC969

ab File ID:X4583 Lab Sample ID:VBLK863

ate Analyzed: 5/19/00 Time Analyzed:1623

C Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

nstrument ID:MS 3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-05DL	215969-07DL	X4584	1714
02				
03				
04				
05				
06				
07				
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30				

COMMENTS:

STL

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CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Lab File ID:TUN788 BFB Injection Date: 3/16/00

Instrument ID:MS3 BFB Injection Time:0946

GC Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	37.9
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	0.0(0.0)1
174	Greater than 50% of mass 95	99.6
175	5.0 - 9.0% of mass 174	7.2(7.2)1
176	95.0 - 101.0% of mass 174	97.4(97.8)1
177	5.0 - 9.0% of mass 176	6.2(6.4)2

AL 3/26/00

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD, BLANKS AND STANDARDS

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	VSTD200	XS998	3/16/00	1039
02	VSTD100	VSTD100	XS999	3/16/00	1126
03	VSTD050	VSTD050	XS000	3/16/00	1207
04	VSTD020	VSTD020	XS001	3/16/00	1248
05	VSTD010	VSTD010	XS002	3/16/00	1335
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Lab File ID:TUN819 BFB Injection Date: 5/17/00

Instrument ID:MS3 BFB Injection Time:0909

GC Column:db-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	39.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50% of mass 95	93.3
175	5.0 - 9.0% of mass 174	6.8(7.3)1
176	95.0 - 101.0% of mass 174	89.7(96.1)1
177	5.0 - 9.0% of mass 176	6.3(7.0)2 5/16/00

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD, BLANKS AND STANDARDS

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05001	VSTD05001	XS073	5/16/00	0951
02	VBLK861	VBLK861	X4566	5/17/00	1038
03	TB051000	215969-01	X4570	5/17/00	1341
04	RB051000	215969-02	X4571	5/17/00	1425
05	GW-01	215969-03	X4572	5/17/00	1506
06	GW-02	215969-04	X4573	5/17/00	1547
07	GW-03	215969-05	X4574	5/17/00	1629
08	GW-04B	215969-06	X4575	5/17/00	1710
09	GW-05	215969-07	X4576	5/17/00	1751
10	VBSPK17	VBSPK17	X4577	5/17/00	1832
11	GW-01MS	215969-03MS	X4578	5/17/00	1913
12	GW-01MSD	215969-03MSD	X4579	5/17/00	1955
13	GW-04BDL	215969-06DL	X4580	5/17/00	2036
14					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Lab File ID:TUN823 BFB Injection Date: 5/19/00

Instrument ID:MS3 BFB Injection Time:1310

GC Column:db-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	38.9
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	0.0(0.0)1
174	Greater than 50% of mass 95	95.0
175	5.0 - 9.0% of mass 174	6.8(7.2)1
176	95.0 - 101.0% of mass 174	92.2(97.1)1
177	5.0 - 9.0% of mass 176	6.0(6.6)2

5/26/00 MC

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD, BLANKS AND STANDARDS

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD05002	VSTD05002	XS076	5/19/00	1521
02	VBLK863	VBLK863	X4583	5/19/00	1623
03	GW-05DL	215969-07DL	X4584	5/19/00	1714
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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Lab File ID (Standard):XS073 Date Analyzed: 5/16/00

Instrument ID:MS 3 Time Analyzed:0951

GC Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	770883	12.39	3212061	14.59	2768453	21.09
	UPPER LIMIT	1541766	12.89	6424122	15.09	5536906	21.59
	LOWER LIMIT	385442	11.89	1606031	14.09	1384227	20.59
01	VBLK861	757620	12.39	2948791	14.59	2523294	21.09
02	TB051000	703675	12.39	2817140	14.59	2414640	21.10
03	RB051000	732500	12.39	2773732	14.59	2430142	21.10
04	GW-01	690348	12.39	2756698	14.59	2402646	21.09
05	GW-02	711618	12.39	2761767	14.59	2440442	21.09
06	GW-03	706116	12.39	2724134	14.59	2361900	21.10
07	GW-04B	752120	12.39	2850791	14.59	2510643	21.10
08	GW-05	723578	12.39	2752177	14.59	2428389	21.10
09	VBSPK17	733563	12.39	2754787	14.59	2542252	21.09
10	GW-01MS	755686	12.39	2860078	14.59	2626498	21.09
11	GW-01MSD	784309	12.39	3048996	14.59	2668632	21.10
12	GW-04BDL	749935	12.39	2901788	14.60	2510536	21.10
13							
14							
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19							
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21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

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8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Lab File ID (Standard):XS076 Date Analyzed: 5/19/00

Instrument ID:MS 3 Time Analyzed:1521

GC Column:DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	826418	12.39	3154674	14.59	2866455	21.10
	UPPER LIMIT	1652836	12.89	6309348	15.09	5732910	21.60
	LOWER LIMIT	413209	11.89	1577337	14.09	1433228	20.60
	EPA SAMPLE NO.						
01	VBLK863	766518	12.39	2931475	14.60	2526247	21.10
02	GW-05DL	728733	12.39	2804959	14.60	2462917	21.10
03							
04							
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

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NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB051000

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-01

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4570

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB051000

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-01

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4570

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB051000

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-01

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4570

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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3.					
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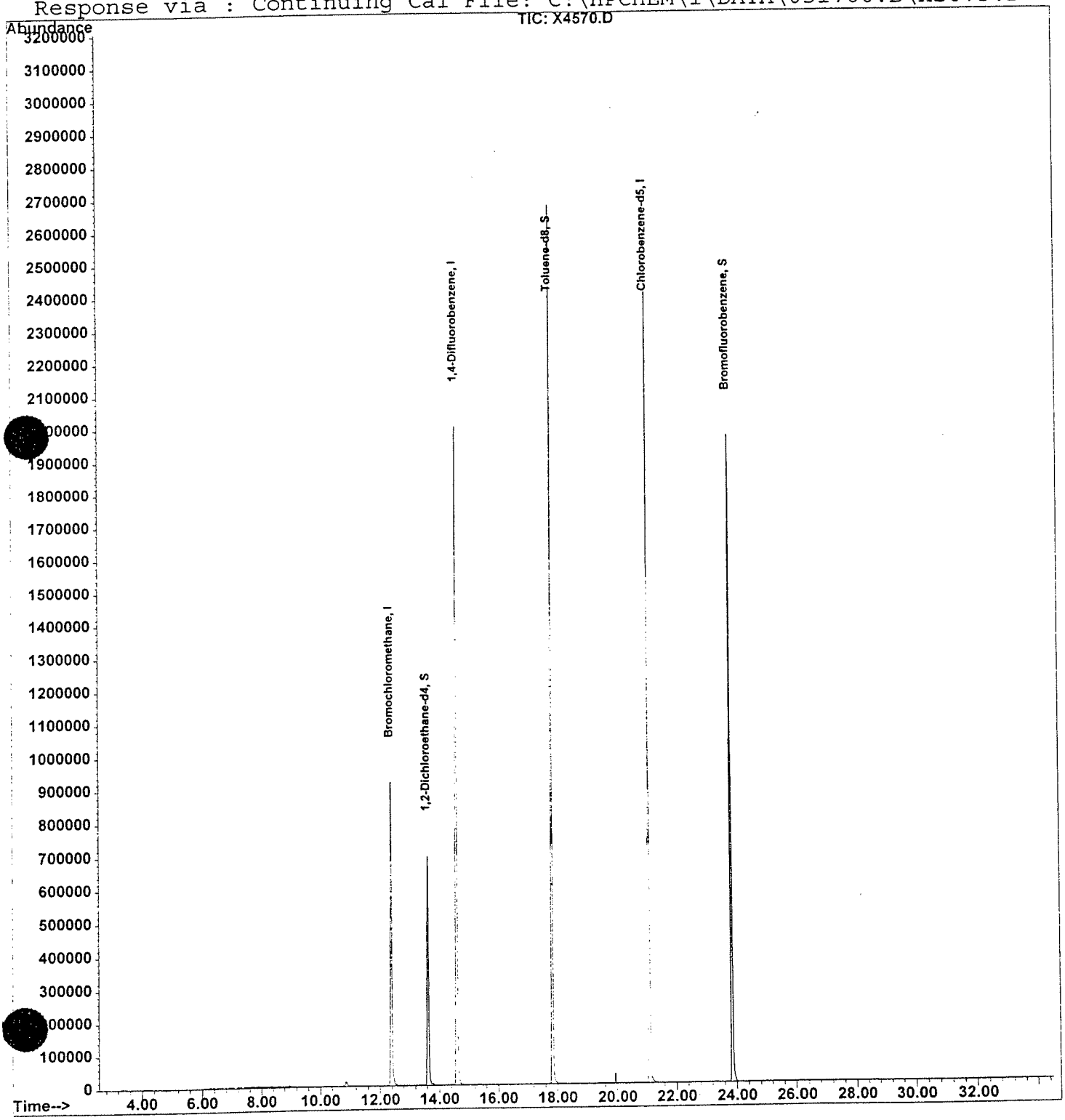
Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4570.D
Acq On : 17 May 2000 13:41
Sample : 215969-01
[redacted]isc : MCLAREN/HART TB051000 8260BPP
MS Integration Params: rteint.p
Quant Time: May 18 13:44 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4570.D Vial: 6
Acq On : 17 May 2000 13:41 Operator: PULLAR
Sample : 215969-01 Inst : MS 3
Misc : MCLAREN/HART TB051000 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 13:44 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

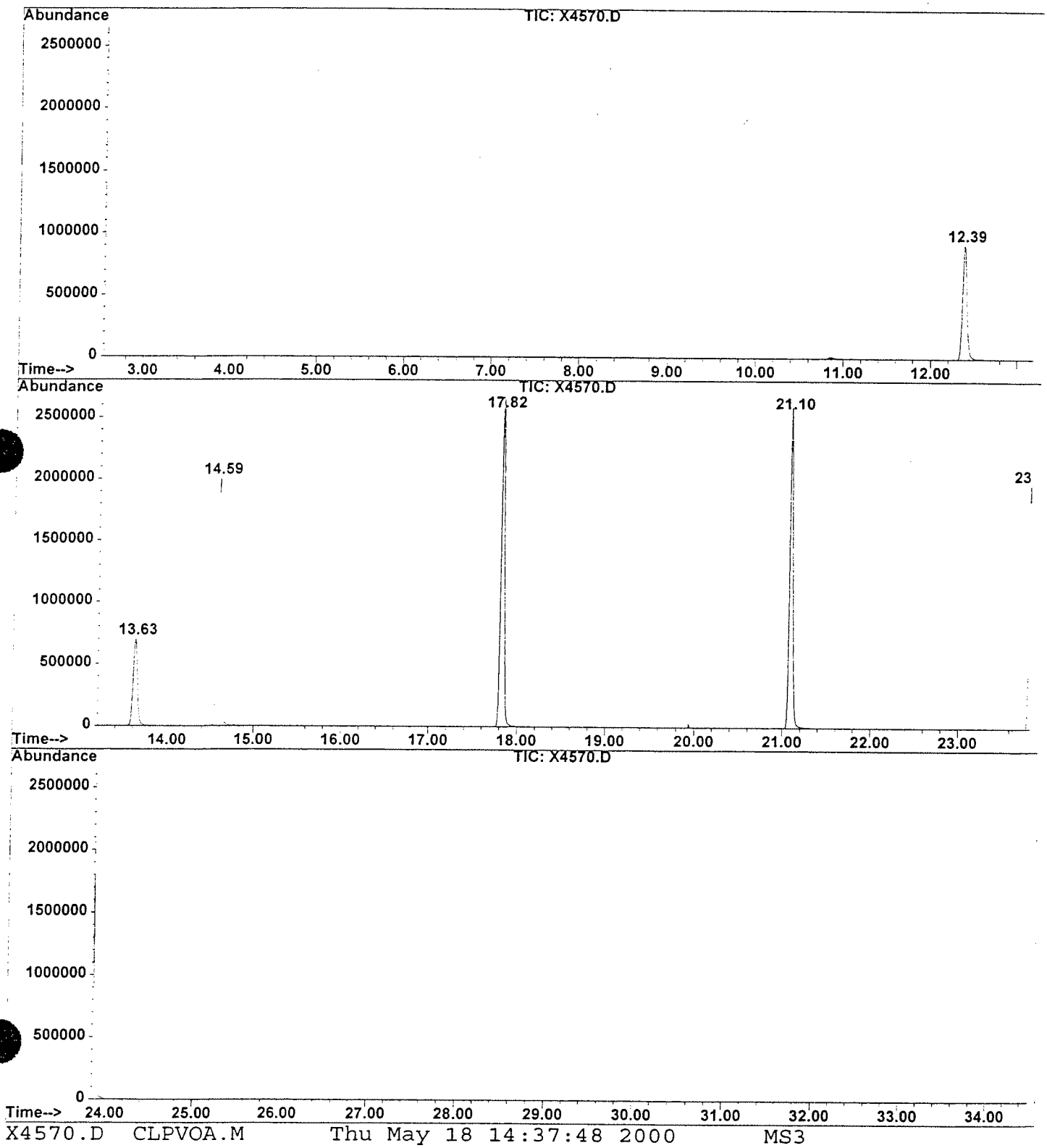
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	703675	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2817140	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2414640	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	846110	49.68	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.36%			
43) Toluene-d8	17.82	98	2872977	51.24	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 102.48%			
48) Bromofluorobenzene	23.84	95	1033826	46.43	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.86%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051700.B\X4570.D
Operator : PULLAR
Acquired : 17 May 2000 13:41 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: 215969-01
Misc Info : MCLAREN/HART TB051000 8260BPP
Vial Number: 6
Quant File :CLPVOA.RES (RTE Integrator)



X4570.D CLPVOA.M Thu May 18 14:37:48 2000 MS3

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 17 May 2000 13:41
Data File: C:\HPCHEM\1\DATA\051700.B\X4570.D
Job: 215969-01
File: MCLAREN/HART TB051000 8260BPP
Method: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

X4570.D CLPVOA.M Thu May 18 14:37:48 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB051000

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-02

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4571

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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Newburgh, NY 12550
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB051000

Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-02

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4571

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB051000

Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-02

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4571

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	71-23-8	1-Propanol	10.85	8.	JN
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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24.					
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26.					
27.					
28.					
29.					
30.					

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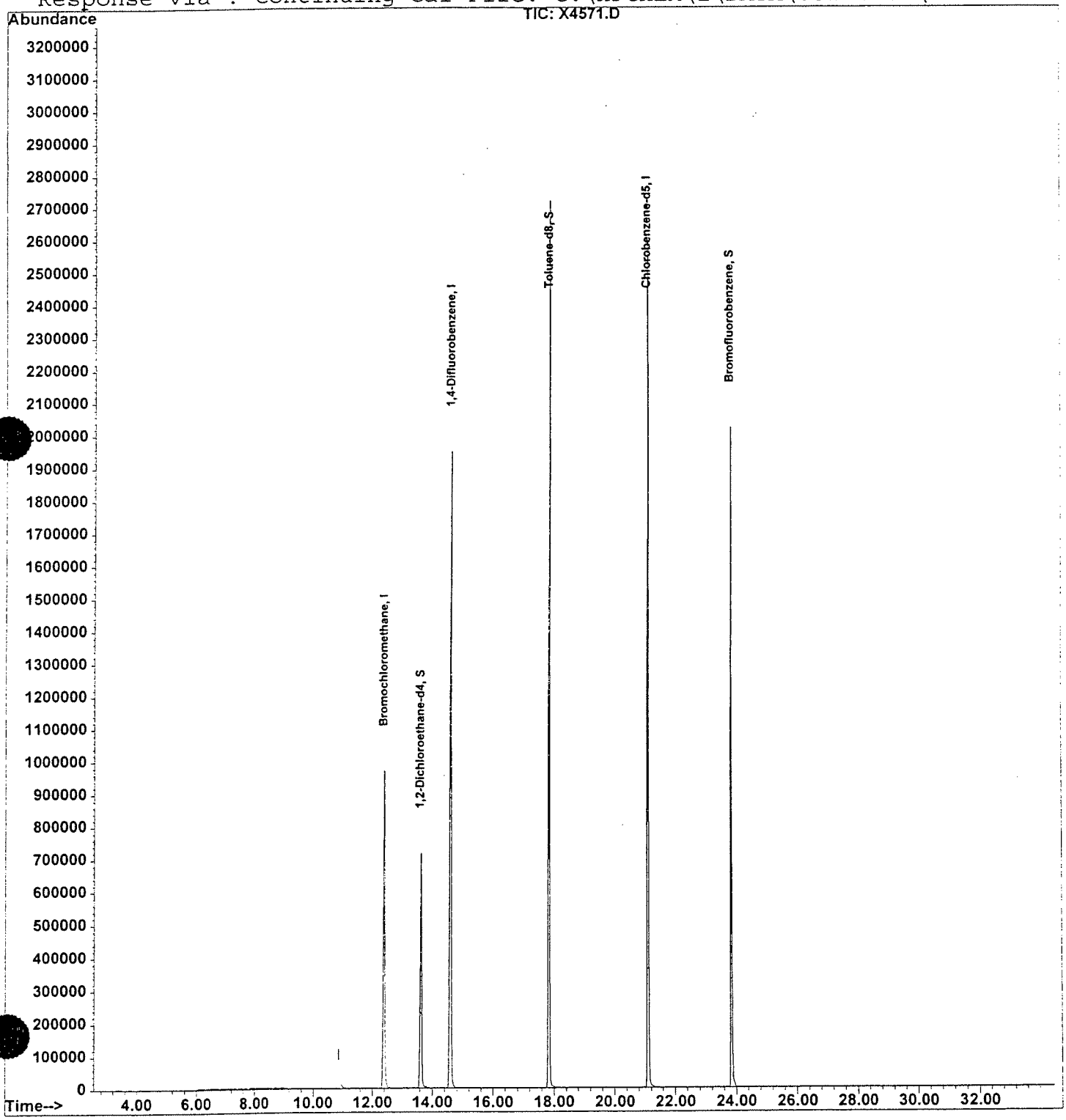
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4571.D Vial: 7
Acq On : 17 May 2000 14:25 Operator: PULLAR
Sample : 215969-02 Inst : MS 3
Misc : MCLAREN/HART RB051000 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 13:45 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4571.D Vial: 7
Acq On : 17 May 2000 14:25 Operator: PULLAR
Sample : 215969-02 Inst : MS 3
Misc : MCLAREN/HART RB051000 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 13:45 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

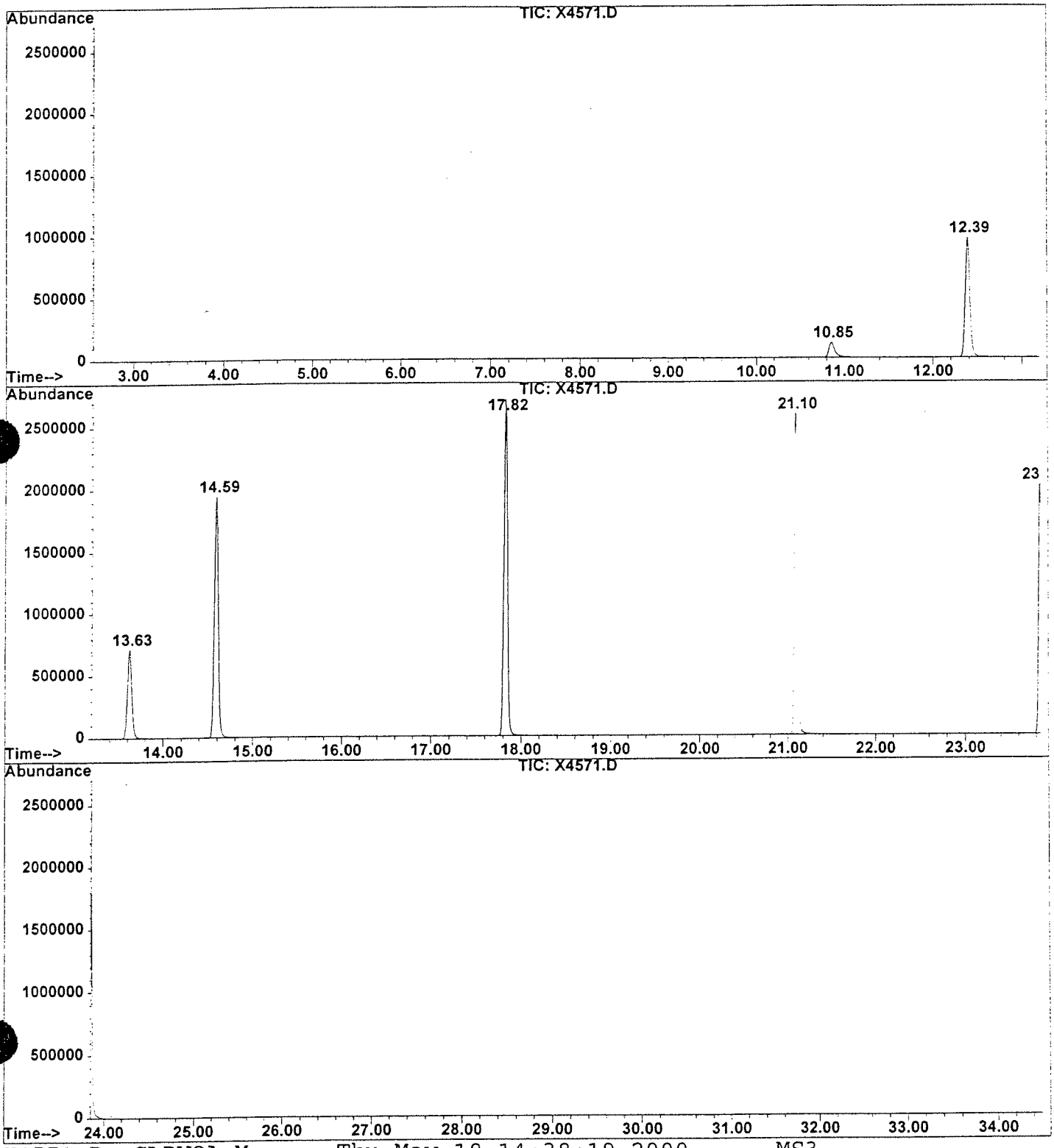
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	732500	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2773732	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2430142	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	870765	49.11	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.22%			
43) Toluene-d8	17.82	98	2865481	50.78	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.56%			
48) Bromofluorobenzene	23.84	95	1049265	46.82	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.64%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051700.B\X4571.D
Operator : PULLAR
Acquired : 17 May 2000 14:25 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: 215969-02
Misc Info : MCLAREN/HART RB051000 8260BPP
Vial Number: 7
Quant File :CLPVOA.RES (RTE Integrator)



X4571.D CLPVOA.M Thu May 18 14:38:19 2000 MS3

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4571.D
Acq On : 17 May 2000 14:25
Sample : 215969-02
Misc : MCLAREN/HART RB051000 8260BPP
MS Integration Params: LSCINT.P

Vial: 7
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

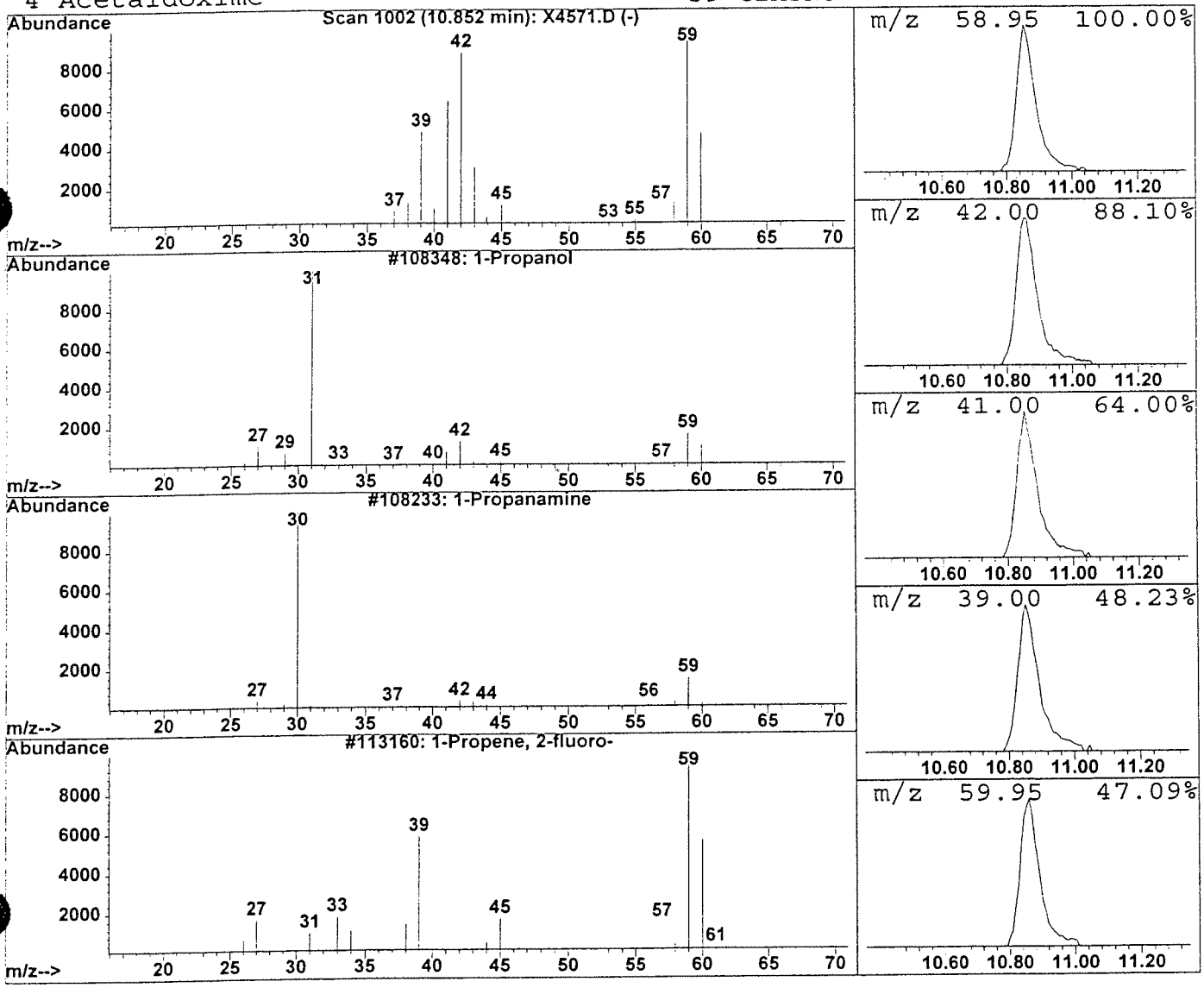
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 1-Propanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	8.17 ug/l	549161	Bromochloromethane	12.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	9
2	1-Propanamine	59	C3H9N	000107-10-8	7
3	1-Propene, 2-fluoro-	60	C3H5F	001184-60-7	52
4	Acetaldoxime	59	C2H5NO	000107-29-9	4



000032

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 17 May 2000 14:25
Data File: C:\HPCHEM\1\DATA\051700.B\X4571.D
[redacted]: 215969-02
[redacted]: MCLAREN/HART RB051000 8260BPP
Method: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1-Propanol	10.85	8.2	ug/l	549161	ISTD01	12.39	3361660	50.0

X4571.D CLPVOA.M Thu May 18 14:38:21 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-03

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4572

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

STL

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Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-03

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4572

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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NJDEP 72015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-01

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-03

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4572

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	71-23-8	1-Propanol	10.86	6.	JN
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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30.					

STL Committed To Your Success

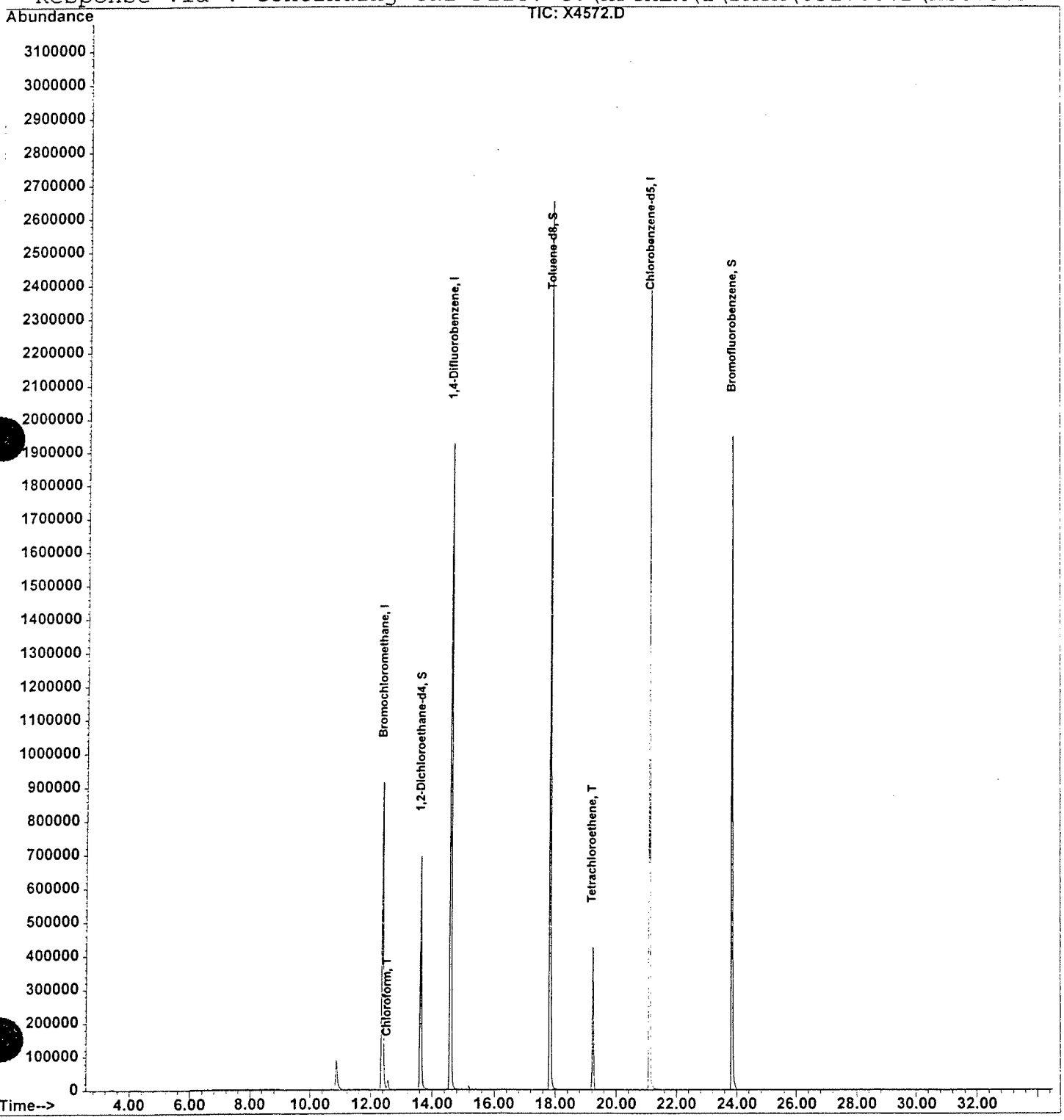
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

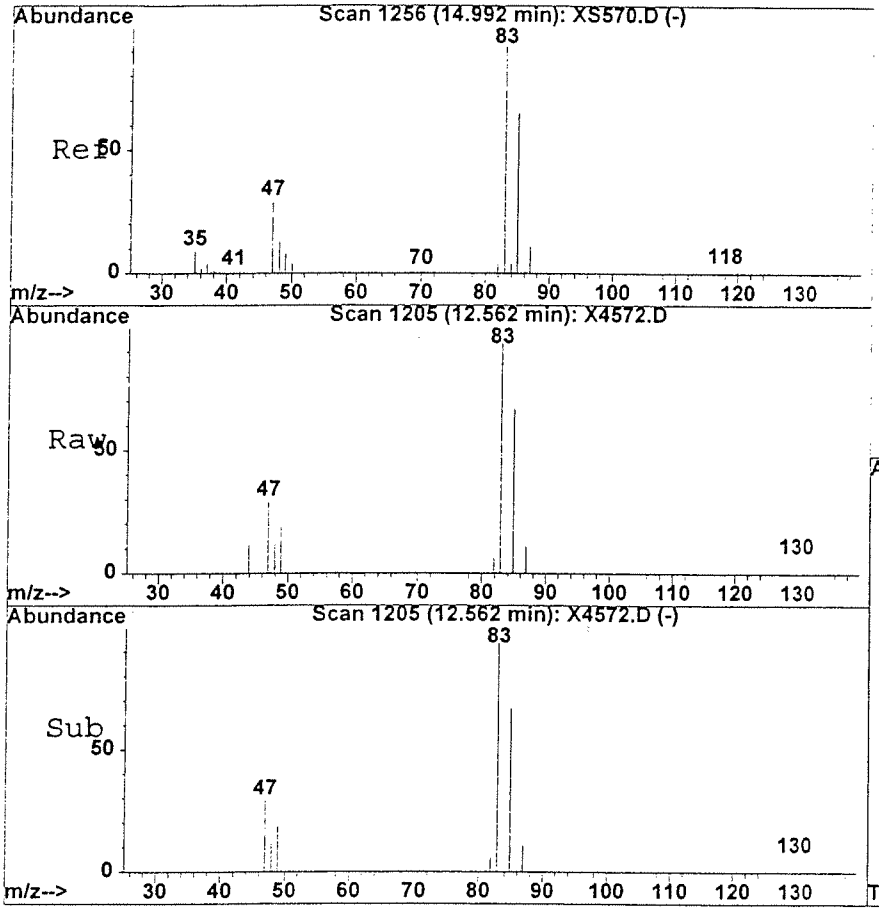
Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4572.D Vial: 6
Acq On : 17 May 2000 15:06 Operator: PULLAR
Sample : 215969-03 Inst : MS 3
Misc : MCLAREN/HART GW-01 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 13:55 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



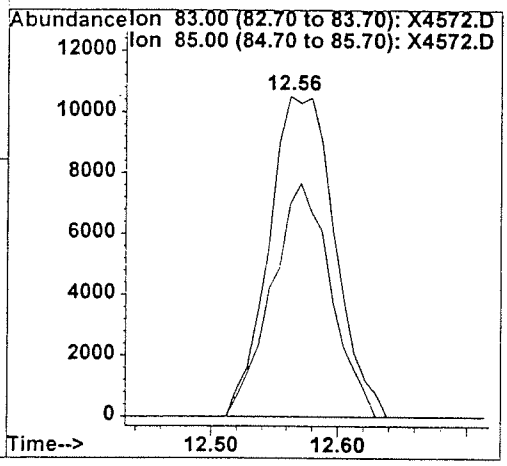
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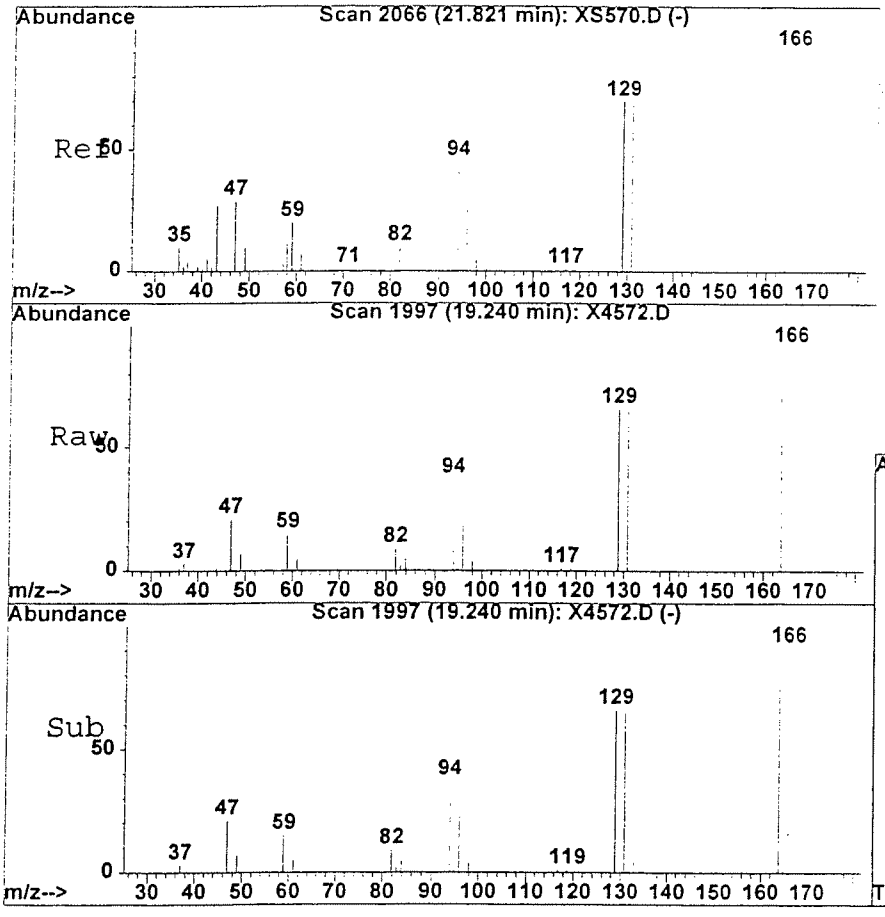


#20
Chloroform
Concen: 1.31 ug/l
RT: 12.56 min Scan# 1205
Delta R.T. -0.01 min
Lab File: X4572.D
Acq: 17 May 2000 15:06

Tgt Ion: 83 Resp: 37972

Ion	Ratio	Lower	Upper
83	100		
85	66.5	43.8	83.8

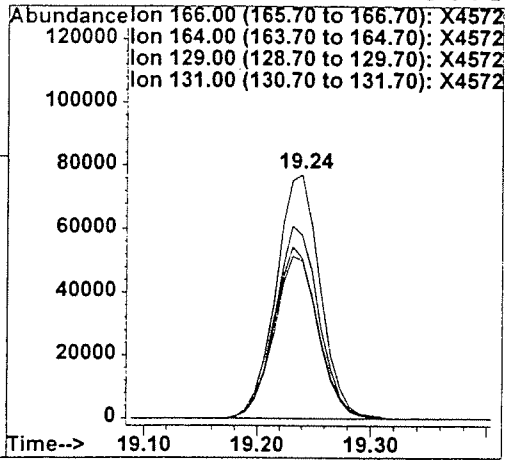




#41
Tetrachloroethene
Concen: 10.59 ug/l
RT: 19.24 min Scan# 1997
Delta R.T. 0.01 min
Lab File: X4572.D
Acq: 17 May 2000 15:06

Tgt Ion:166 Resp: 211337

Ion	Ratio	Lower	Upper
166	100		
164	75.1	58.0	98.0
129	65.6	58.1	98.1
131	64.7	56.4	96.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4572.D
Acq On : 17 May 2000 15:06
Sample : 215969-03
Misc : MCLAREN/HART GW-01 8260BPP
MS Integration Params: rteint.p
Quant Time: May 18 13:55 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

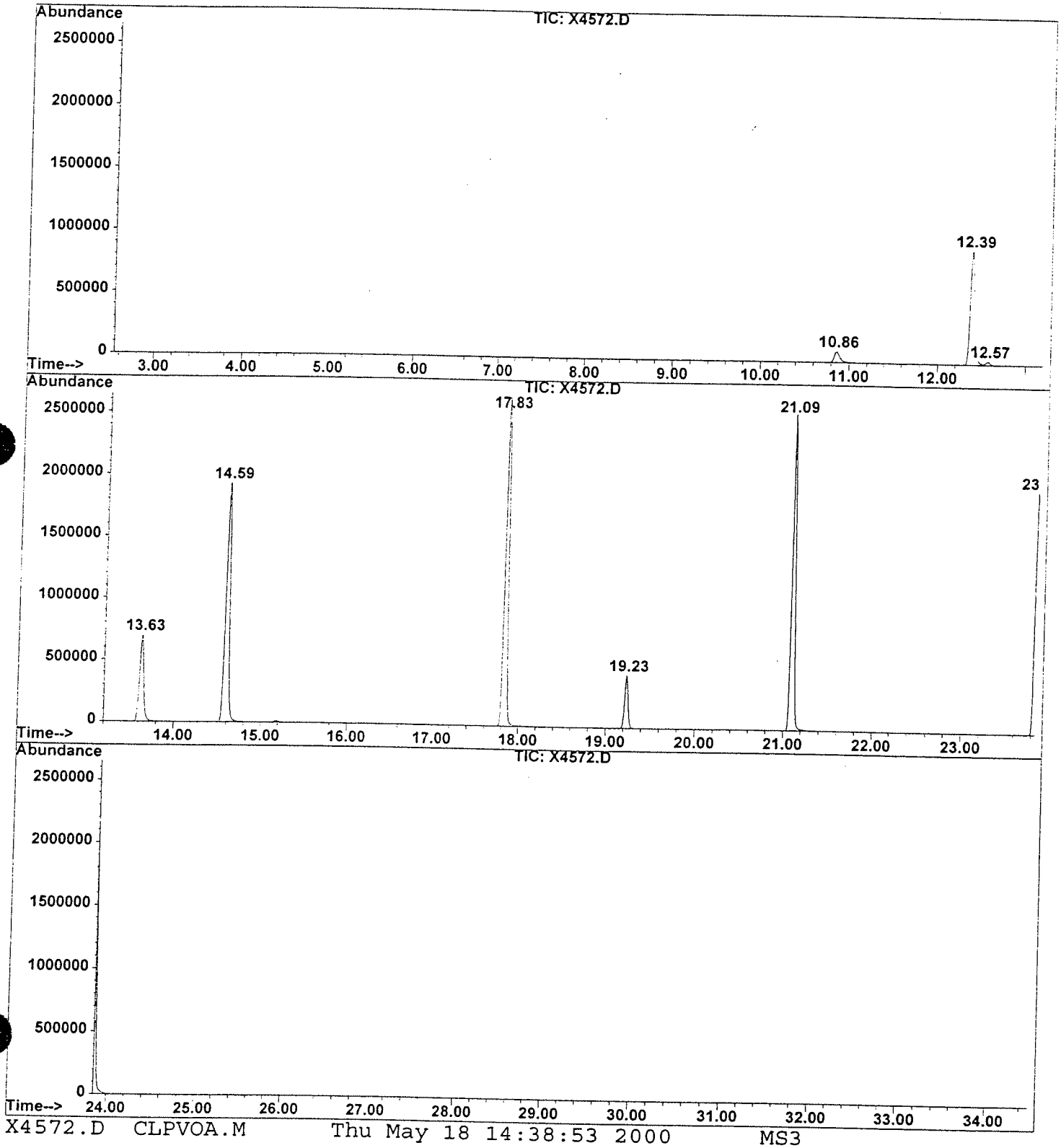
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	690348	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2756698	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.09	117	2402646	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	845037	50.57	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.14%			
43) Toluene-d8	17.83	98	2813723	50.44	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.88%			
48) Bromofluorobenzene	23.84	95	1018603	45.97	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 91.94%			
Target Compounds						Qvalue
10) Chloroform	12.56	83	37972	1.31	ug/l	97
41) Tetrachloroethene	19.24	166	211337	10.59	ug/l	90

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051700.B\X4572.D
Operator : PULLAR
Acquired : 17 May 2000 15:06 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: 215969-03
Misc Info : MCLAREN/HART GW-01 8260BPP
Vial Number: 6
Quant File :CLPVOA.RES (RTE Integrator)



X4572.D CLPVOA.M Thu May 18 14:38:53 2000 MS3

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4572.D
Acq On : 17 May 2000 15:06
Sample : 215969-03
Misc : MCLAREN/HART GW-01 8260BPP
MS Integration Params: LSCINT.P

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

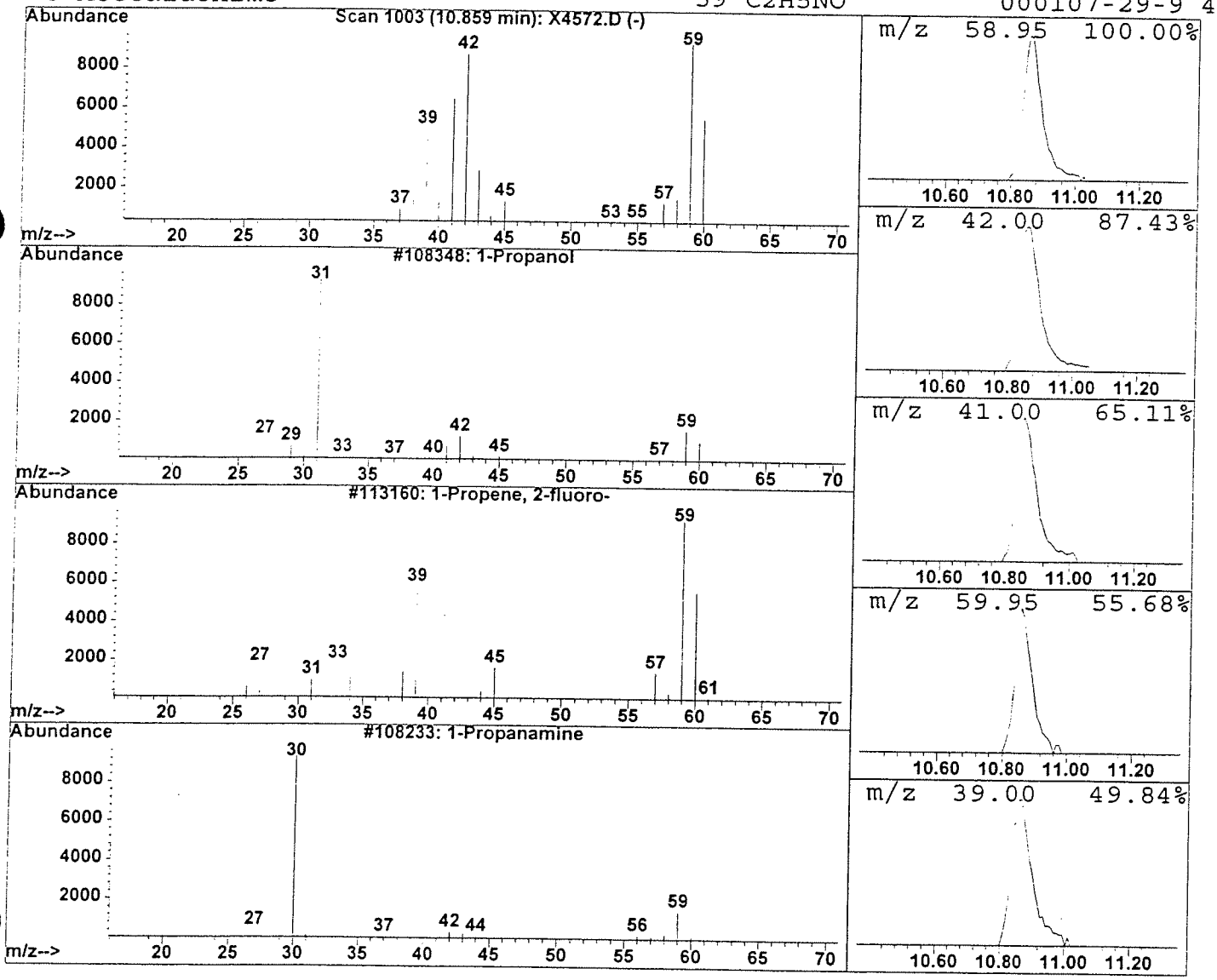
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 1-Propanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.86	6.10 ug/l	385346	Bromochloromethane	12.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	40
2	1-Propene, 2-fluoro-	60	C3H5F	001184-60-7	49
3	1-Propanamine	59	C3H9N	000107-10-8	7
4	Acetaldoxime	59	C2H5NO	000107-29-9	4



000041

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 17 May 2000 15:06
Data File: C:\HPCHEM\1\DATA\051700.B\X4572.D
Name: 215969-03
Misc: MCLAREN/HART GW-01 8260BPP
Method: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1-Propanol	10.86	6.1	ug/l	385346	ISTD01	12.39	3159760	50.0

X4572.D CLPVOA.M Thu May 18 14:38:54 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-04

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4573

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	8.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-04

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4573

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

FORM I VOA 3/90

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Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-02

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-04

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4573

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

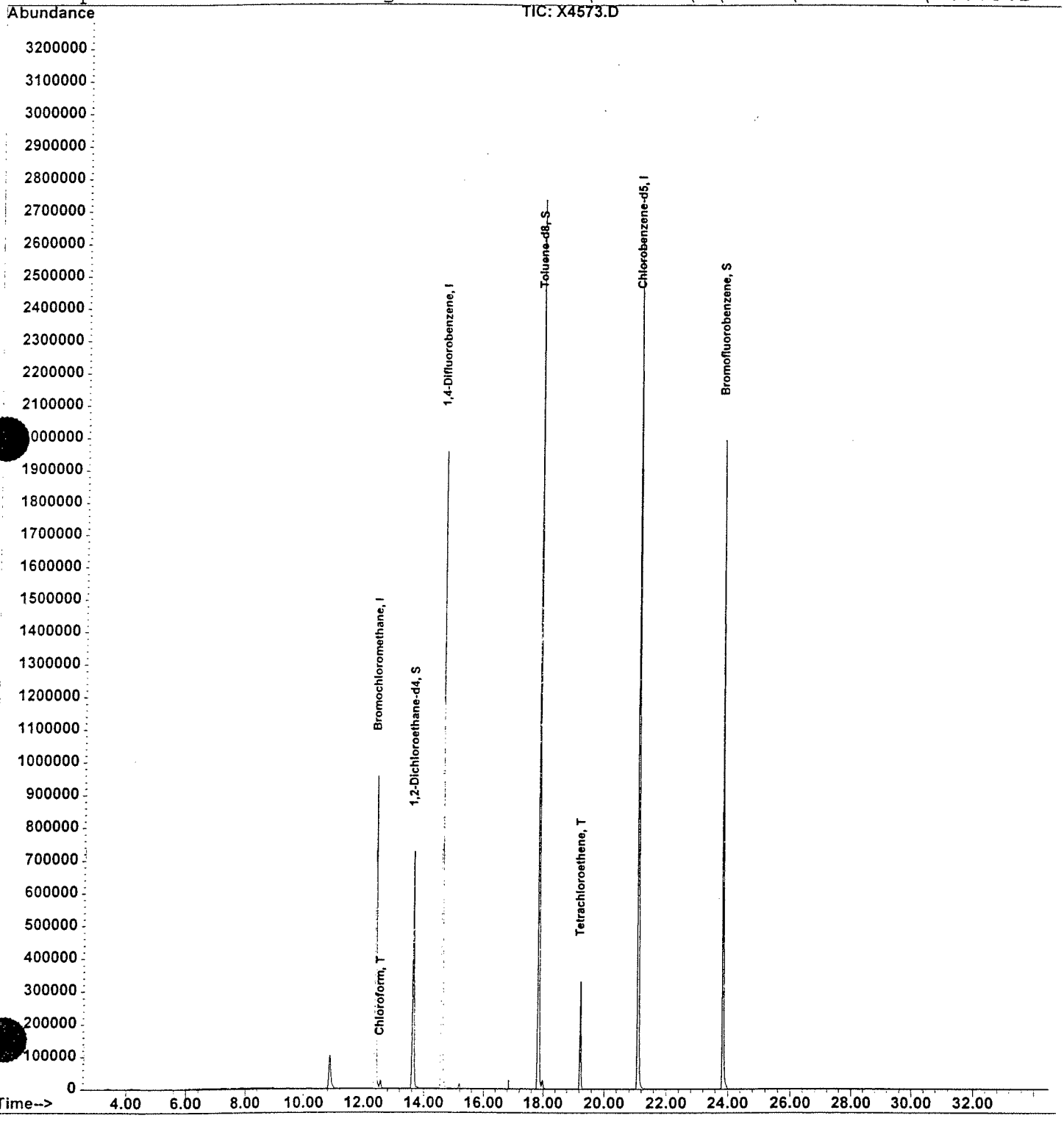
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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16.					
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23.					
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26.					
27.					
28.					
29.					
30.					

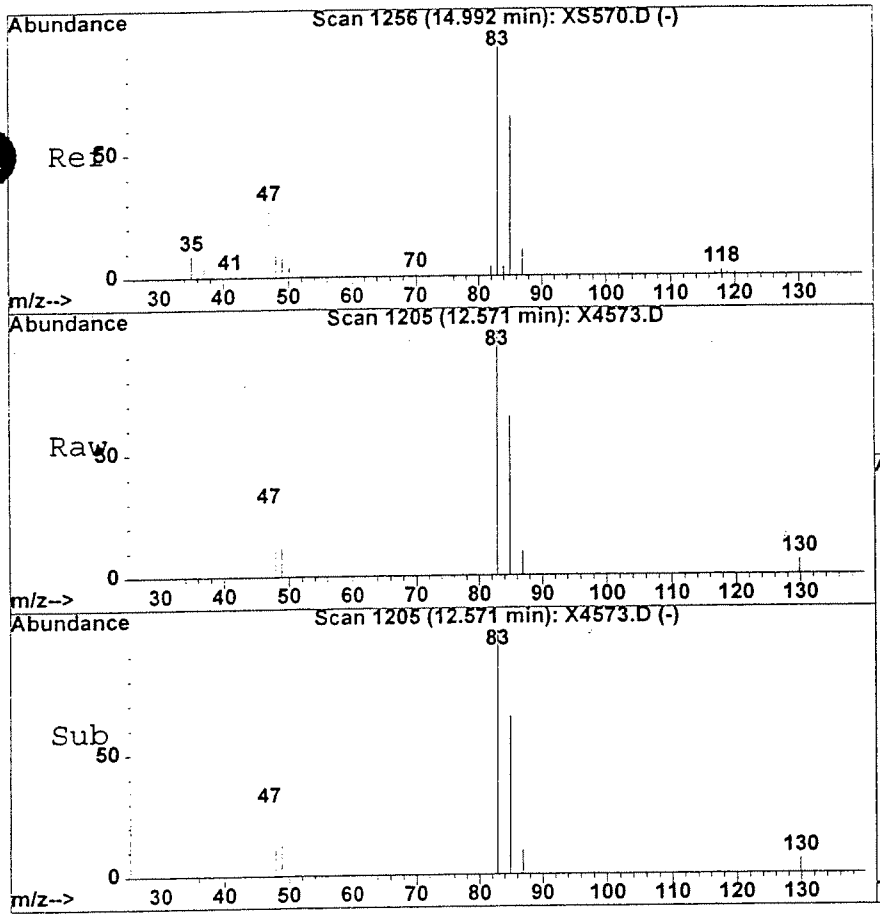
STL Committed To Your Success
NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4573.D Vial: 6
Acq On : 17 May 2000 15:47 Operator: PULLAR
Sample : 215969-04 Inst : MS 3
Misc : MCLAREN/HART GW-02 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 13:57 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D

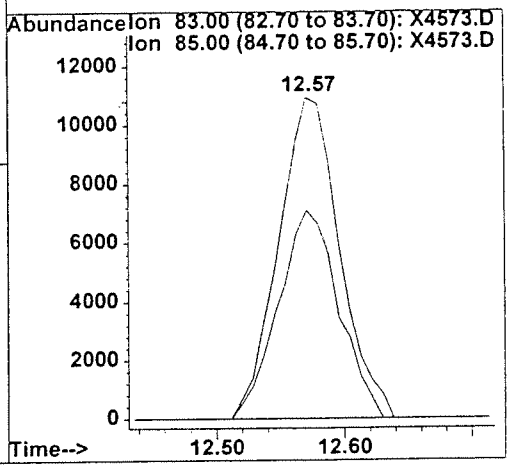


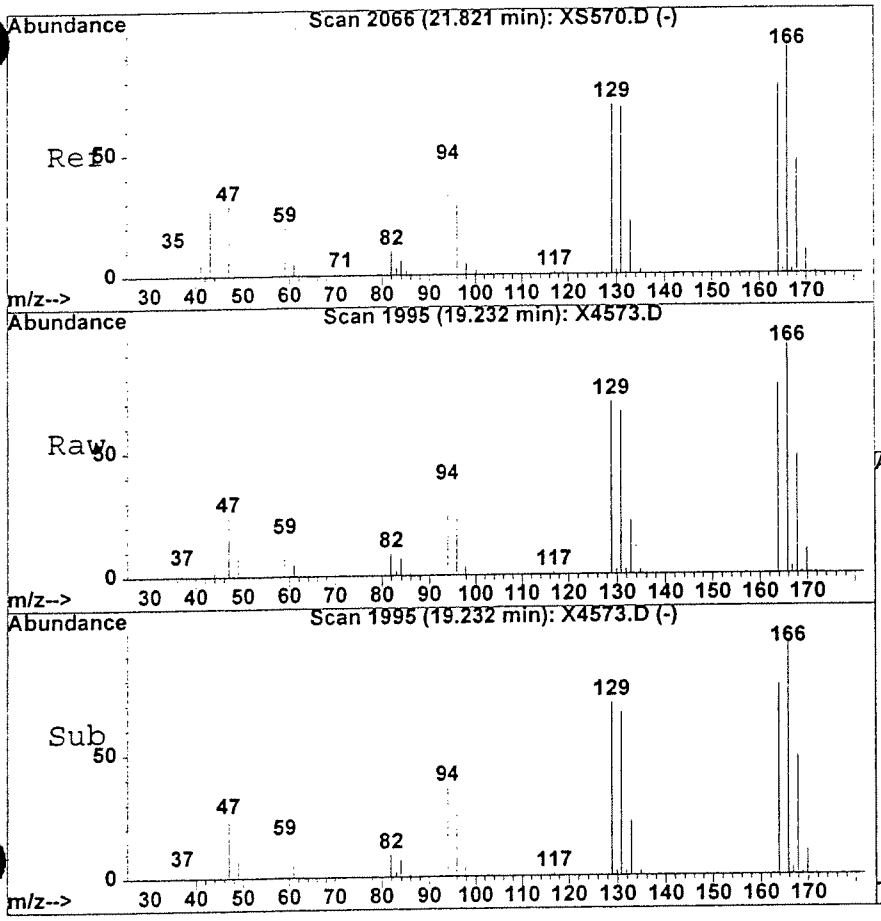


#20
Chloroform
Concen: 1.22 ug/l
RT: 12.57 min Scan# 1205
Delta R.T. 0.00 min
Lab File: X4573.D
Acq: 17 May 2000 15:47

Tgt Ion: 83 Resp: 36203

Ion	Ratio	Lower	Upper
83	100		
85	65.1	43.8	83.8

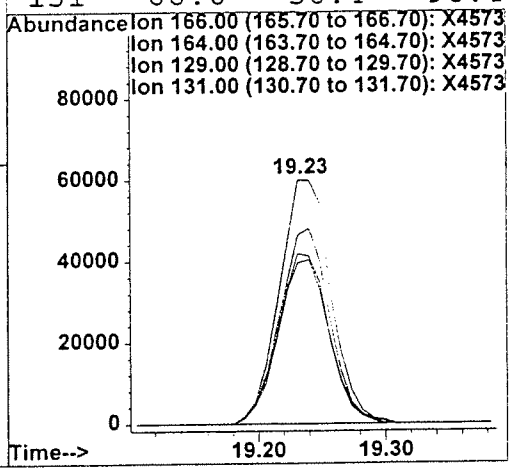




#41
Tetrachloroethene
Concen: 8.29 ug/l
RT: 19.23 min Scan# 1995
Delta R.T. 0.00 min
Lab File: X4573.D
Acq: 17 May 2000 15:47

Tgt Ion:166 Resp: 168029

Ion	Ratio	Lower	Upper
166	100		
164	77.4	58.0	98.0
129	69.7	58.1	98.1
131	66.0	56.4	96.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4573.D
Acq On : 17 May 2000 15:47
Sample : 215969-04
Misc : MCLAREN/HART GW-02 8260BPP
MS Integration Params: rteint.p
Quant Time: May 18 13:57 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

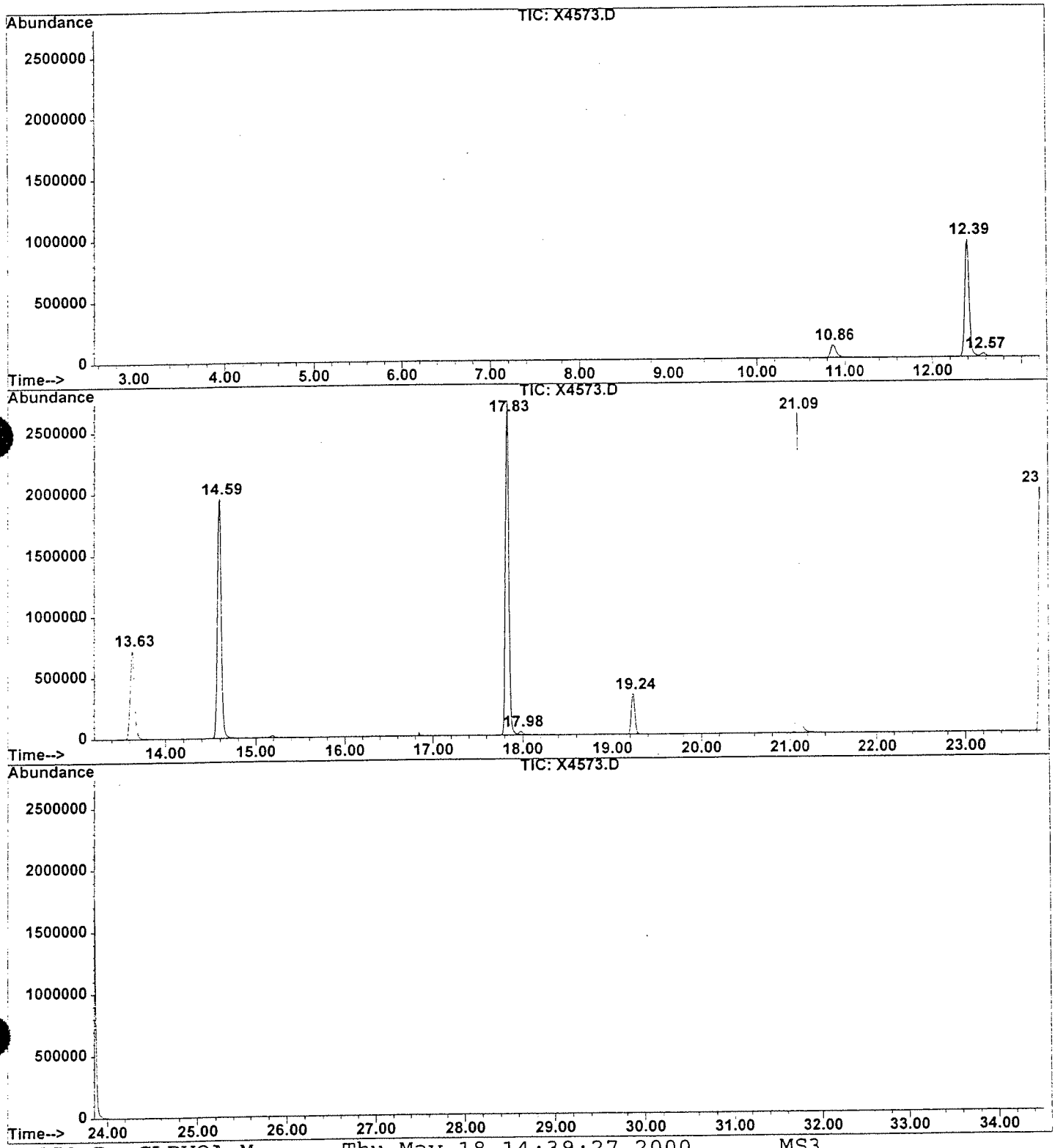
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	711618	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2761767	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.09	117	2440442	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	871170	50.58	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.16%			
43) Toluene-d8	17.83	98	2830863	49.96	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.92%			
48) Bromofluorobenzene	23.84	95	1042286	46.31	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.62%			
Target Compounds						Qvalue
10) Chloroform	12.57	83	36203	1.22	ug/l	98
41) Tetrachloroethene	19.23	166	168029	8.29	ug/l	93

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051700.B\X4573.D
Operator : PULLAR
Acquired : 17 May 2000 15:47 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: 215969-04
Misc Info : MCLAREN/HART GW-02 8260BPP
Vial Number: 6
Quant File :CLPVOA.RES (RTE Integrator)



X4573.D CLPVOA.M Thu May 18 14:39:27 2000 MS3

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4573.D
Acq On : 17 May 2000 15:47
Sample : 215969-04
Misc : MCLAREN/HART GW-02 8260BPP
MS Integration Params: LSCINT.P

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

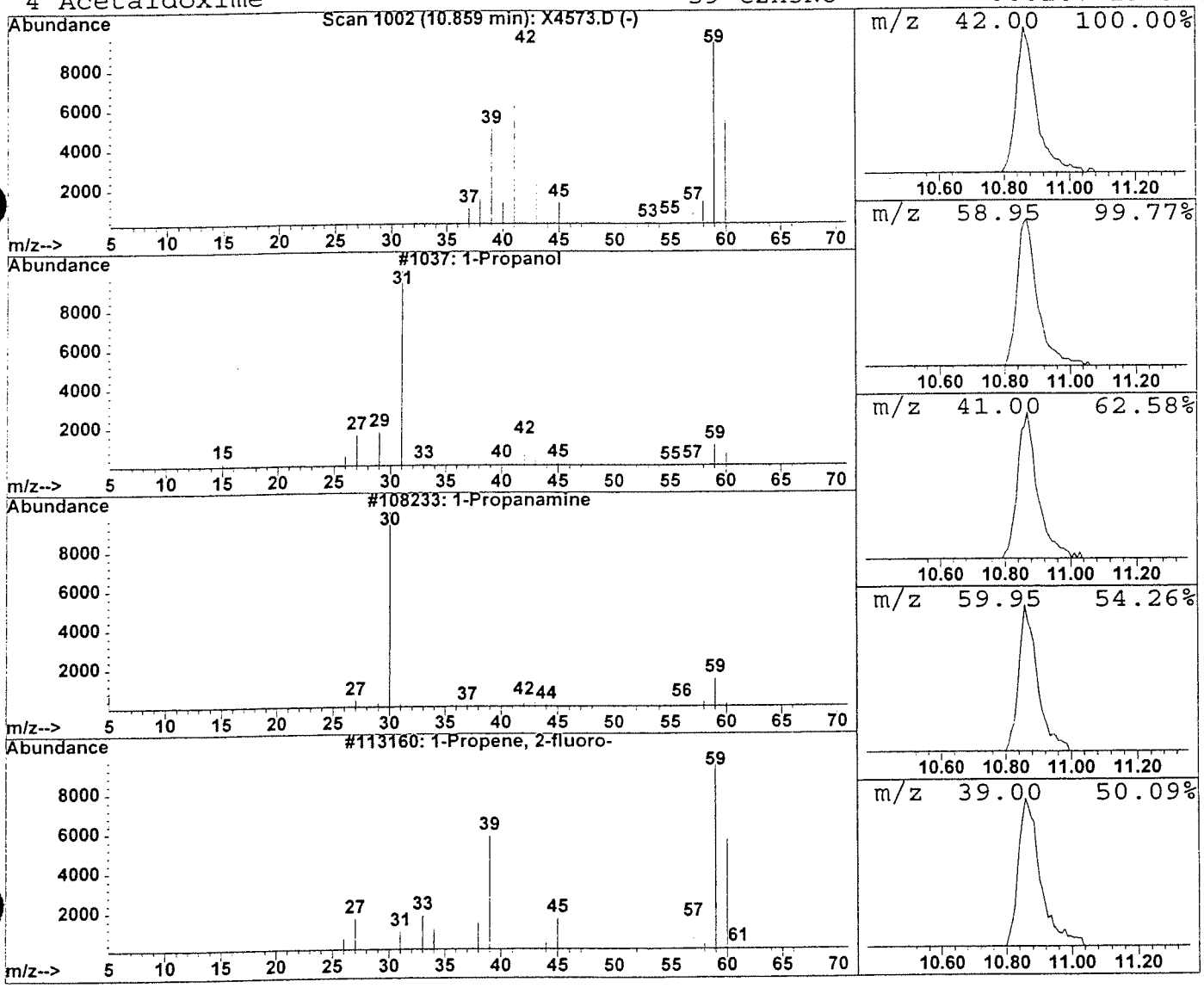
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 1-Propanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.86	6.81 ug/l	444595	Bromochloromethane	12.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	58
2	1-Propanamine	59	C3H9N	000107-10-8	7
3	1-Propene, 2-fluoro-	60	C3H5F	001184-60-7	49
4	Acetaldoxime	59	C2H5NO	000107-29-9	4



000050

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 17 May 2000 15:47
Data File: C:\HPCHEM\1\DATA\051700.B\X4573.D
[redacted]: 215969-04
[redacted]: MCLAREN/HART GW-02 8260BPP
Method: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1-Propanol	10.86	6.8	ug/l	444595	ISTD01	12.39	3264840	50.0

X4573.D CLPVOA.M Thu May 18 14:39:29 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-05

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4574

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	11.	
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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EPA NY049 PA 68-378 M-NY049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-05

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4574

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

FORM I VOA 3/90

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CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

GW-03

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-05

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4574

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	71-23-8	MTBE	9.66	170.	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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10.					
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19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

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CTDOHS PH-0554 EPA NY049 PA 68-378 NJ-NY049

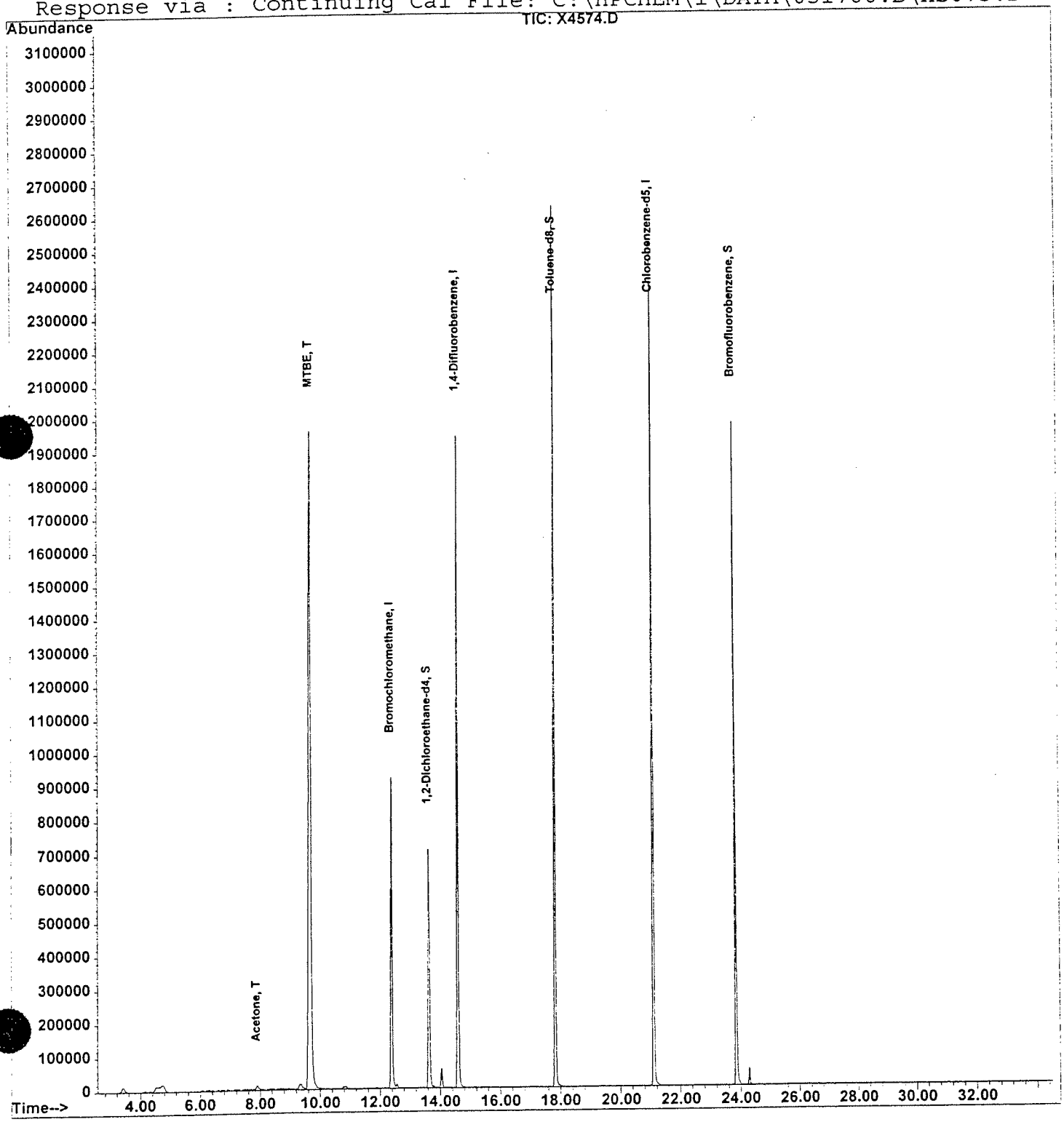
Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4574.D
Acq On : 17 May 2000 16:29
Sample : 215969-05
Misc : MCLAREN/HART GW-03 8260BPP
MS Integration Params: rteint.p
Quant Time: May 18 13:59 2000

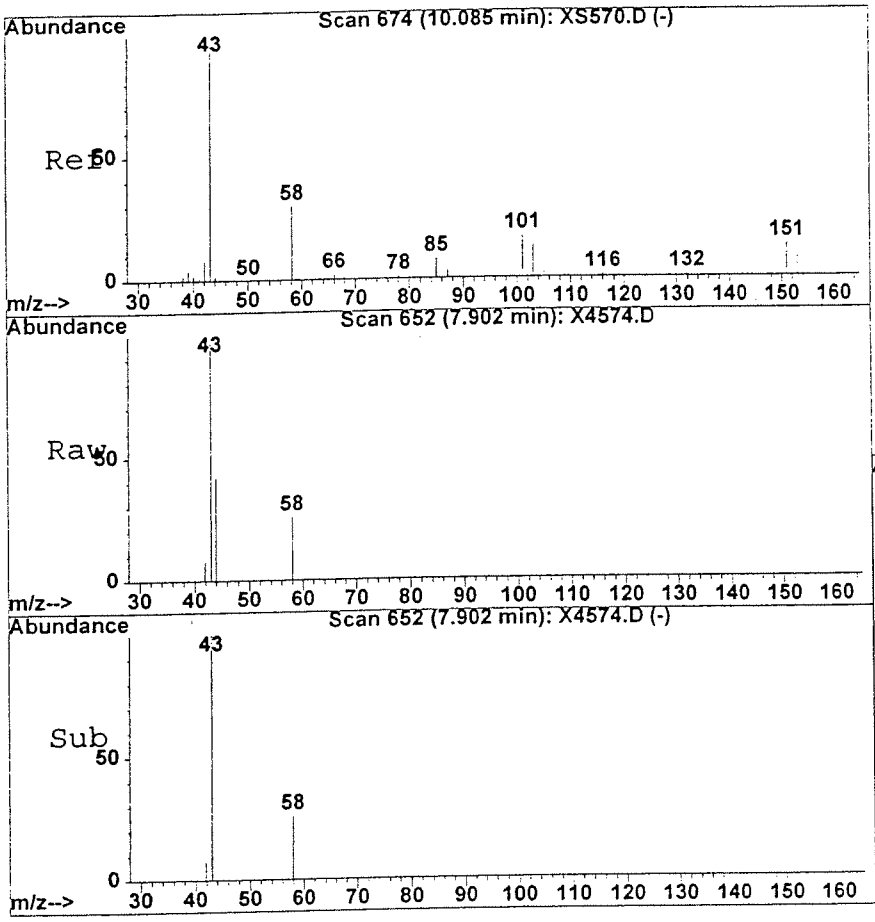
Vial: 7
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



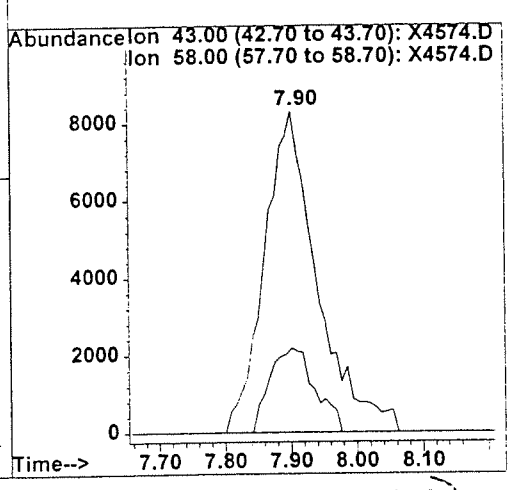
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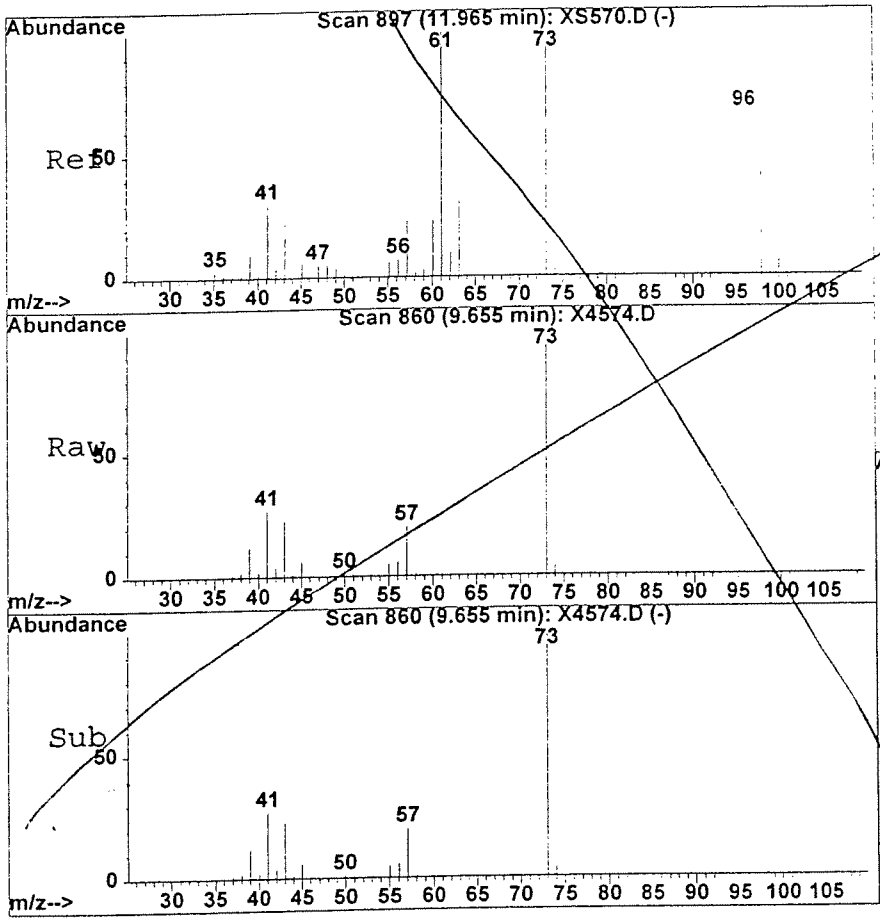


#11
Acetone
Concen: 11.16 ug/l
RT: 7.90 min Scan# 652
Delta R.T. 0.01 min
Lab File: X4574.D
Acq: 17 May 2000 16:29

Tgt Ion: 43 Resp: 45935

Ion	Ratio	Lower	Upper
43	100		
58	26.3	0.0	39.4

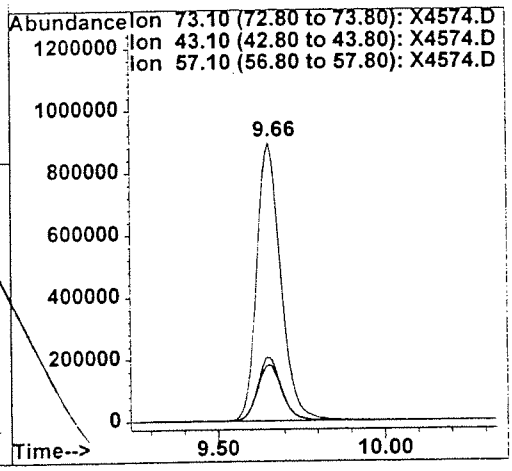




#15
MTBE
Concen: 166.14 ug/l
RT: 9.66 min Scan# 860
Delta R.T. 0.00 min
Lab File: X4574.D
Acq: 17 May 2000 16:29

Tgt Ion: 73 Resp: 4498354

Ion	Ratio	Lower	Upper
73	100		
43	23.1	21.2	31.8
57	20.2	14.9	22.3



000056

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4574.D Vial: 7
Acq On : 17 May 2000 16:29 Operator: PULLAR
Sample : 215969-05 Inst : MS 3
Misc : MCLAREN/HART GW-03 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 13:59 2000 Quant Results File: CLPVOA.RES

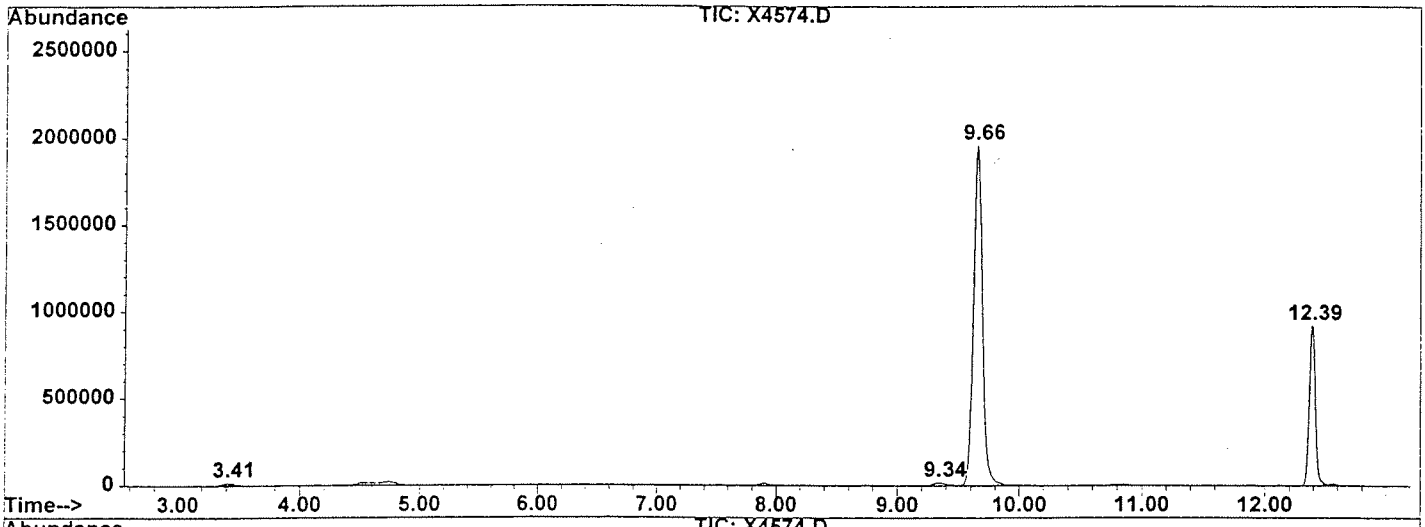
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

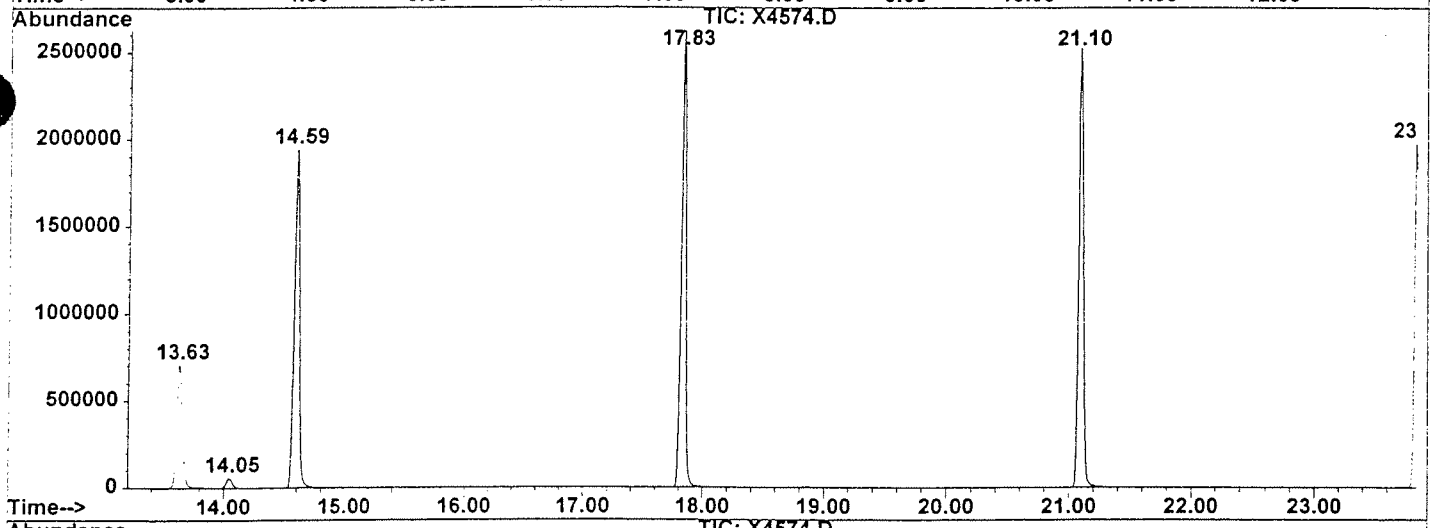
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	706116	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2724134	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2361900	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	866516	50.70	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.40%			
43) Toluene-d8	17.83	98	2755412	50.24	ug/l	0.01
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.48%			
48) Bromofluorobenzene	23.84	95	1016333	46.66	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.32%			
Target Compounds						Qvalue
1) Acetone	7.90	43	45935	11.16	ug/l	85
15) MTBE	9.66	73	4498354	166.14	ug/l	95

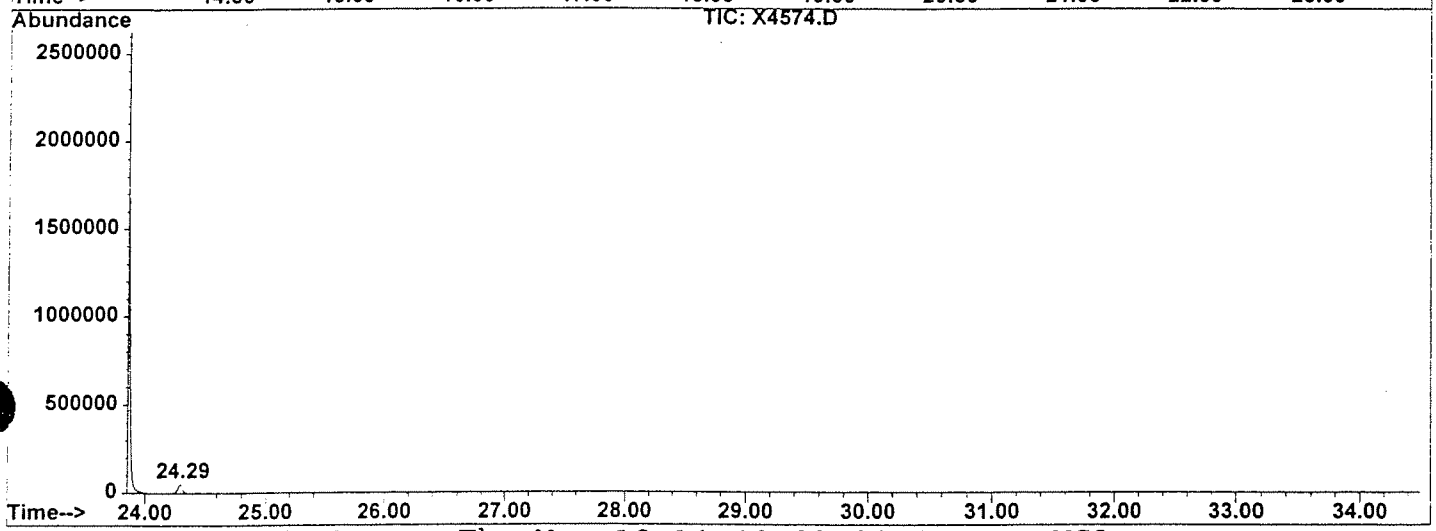
(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

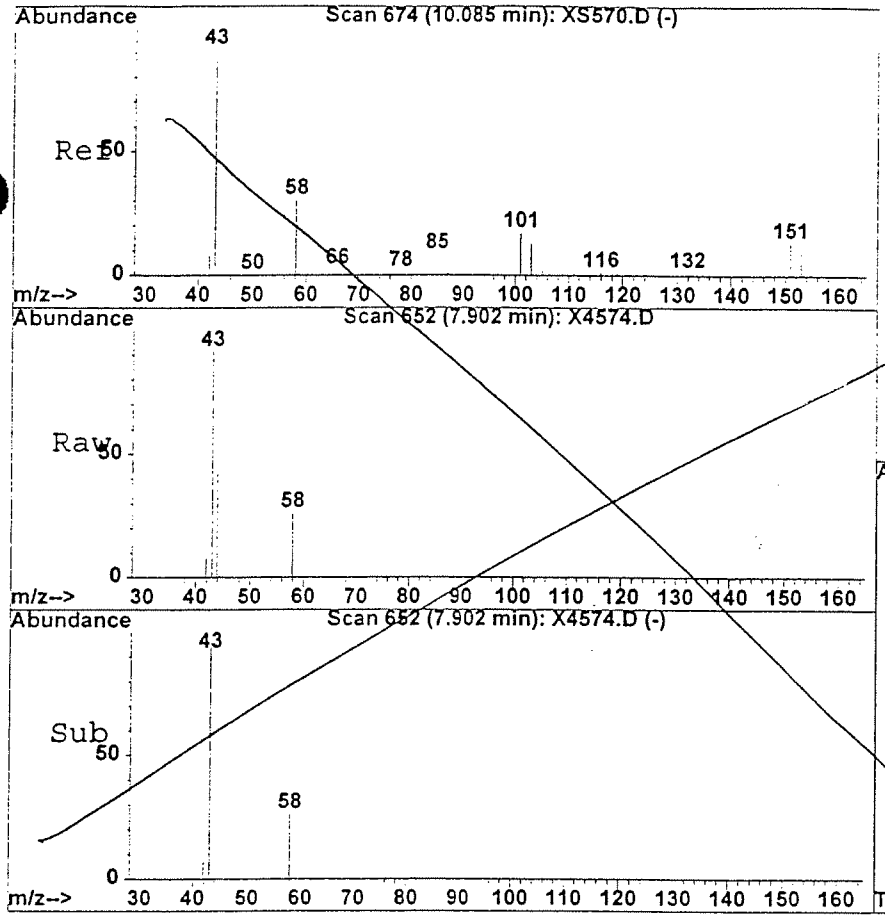
File : C:\HPCHEM\1\DATA\051700.B\X4574.D
Operator : PULLAR
Acquired : 17 May 2000 16:29 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: 215969-05
Misc Info : MCLAREN/HART GW-03 8260BPP
Vial Number: 7
Quant File :CLPVOA.RES (RTE Integrator)







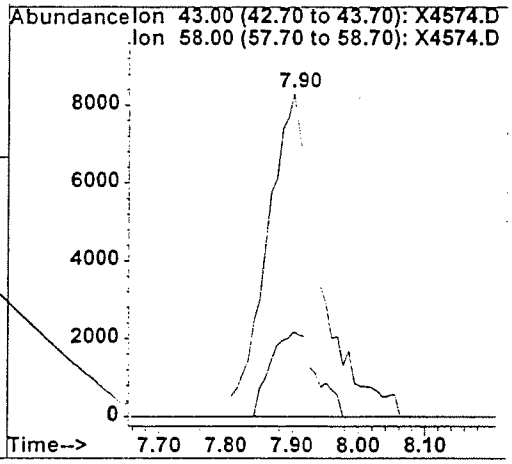
X4574.D CLPVOA.M Thu May 18 14:40:03 2000 MS3

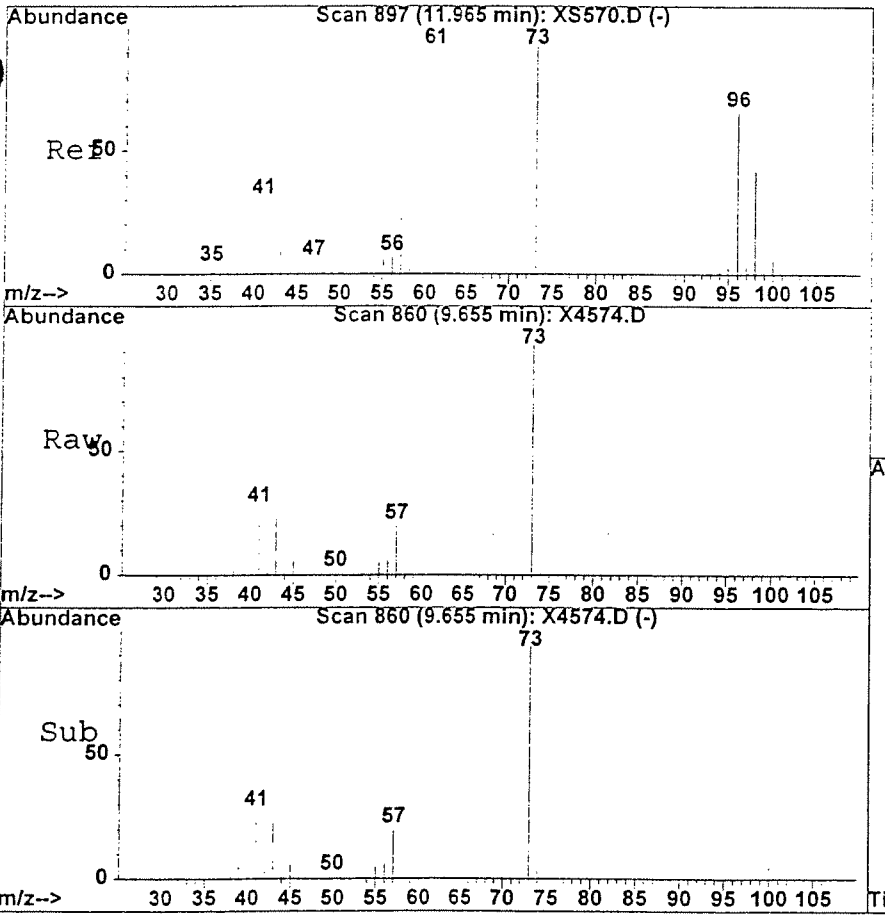


#11
Acetone
Concen: 11.16 ug/l
RT: 7.90 min Scan# 652
Delta R.T. 0.01 min
Lab File: X4574.D
Acq: 17 May 2000 16:29

Tgt Ion: 43 Resp: 45935

Ion	Ratio	Lower	Upper
43	100		
58	26.3	0.0	39.4

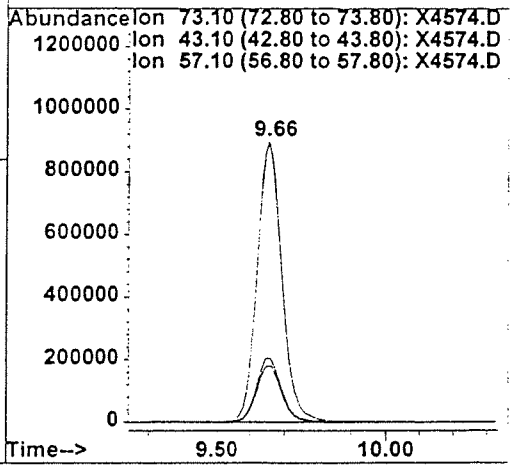




#15
MTBE
Concen: 166.14 ug/l
RT: 9.66 min Scan# 860
Delta R.T. 0.00 min
Lab File: X4574.D
Acq: 17 May 2000 16:29

Tgt Ion: 73 Resp: 4498354

Ion	Ratio	Lower	Upper
73	100		
43	23.1	21.2	31.8
57	20.2	14.9	22.3



Tentatively Identified Compound (LSC) summary

)perator ID: PULLAR Date Acquired: 17 May 2000 16:29
)ata File: C:\HPCHEM\1\DATA\051700.B\X4574.D
Ia[redacted] 215969-05
Ii[redacted]: MCLAREN/HART GW-03 8260BPP
Iethod: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
'itle: VOA Standards for 5 point calibration
,ibrary Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
X4574.D CLPVOA.M	Thu May 18 14:40:03 2000				MS3			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-06

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4575

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	1.	J
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	430.	E
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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Fax: (914) 562-0841

NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-06

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4575

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

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1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

GW-04B

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-06

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4575

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

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

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000063

315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

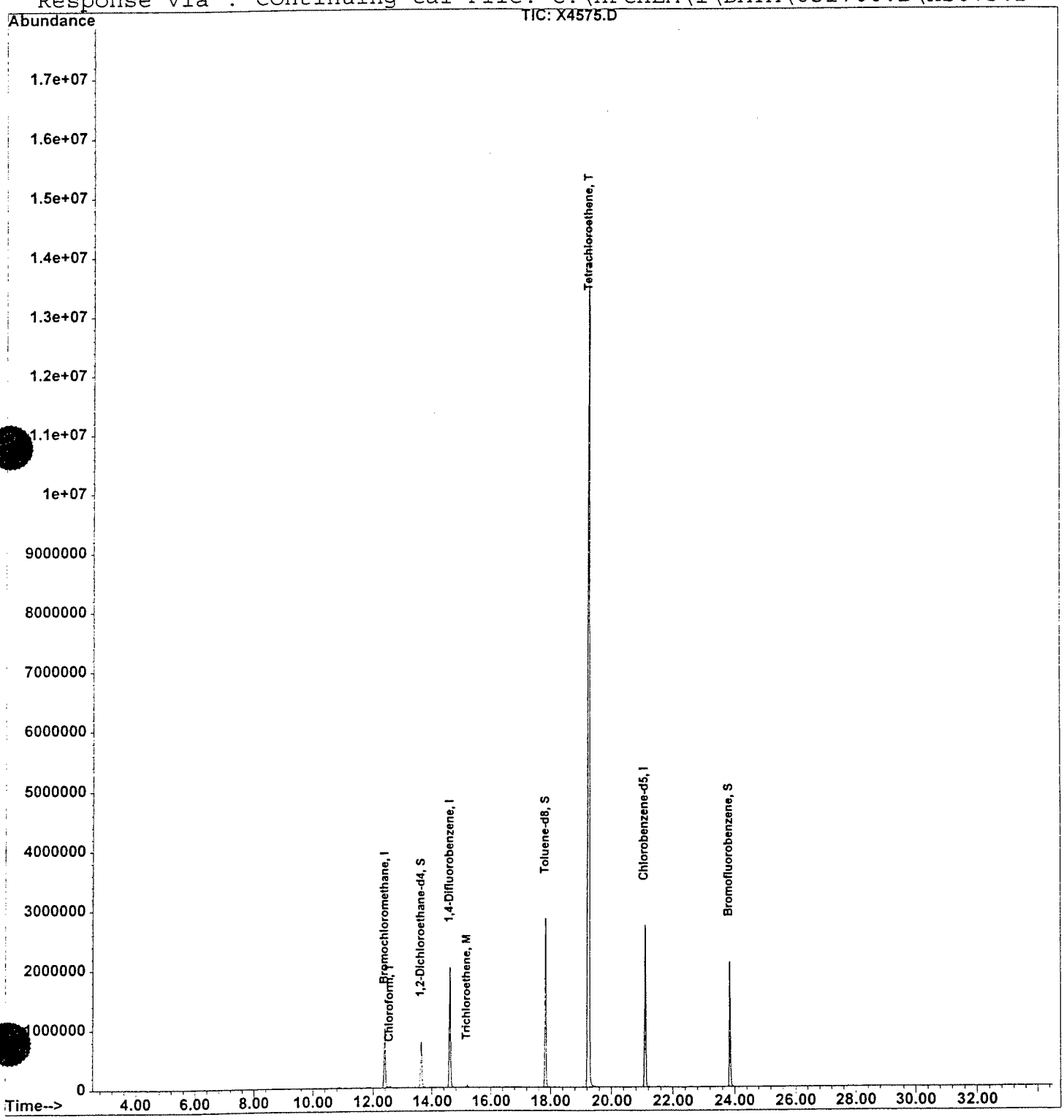
Quantitation Report

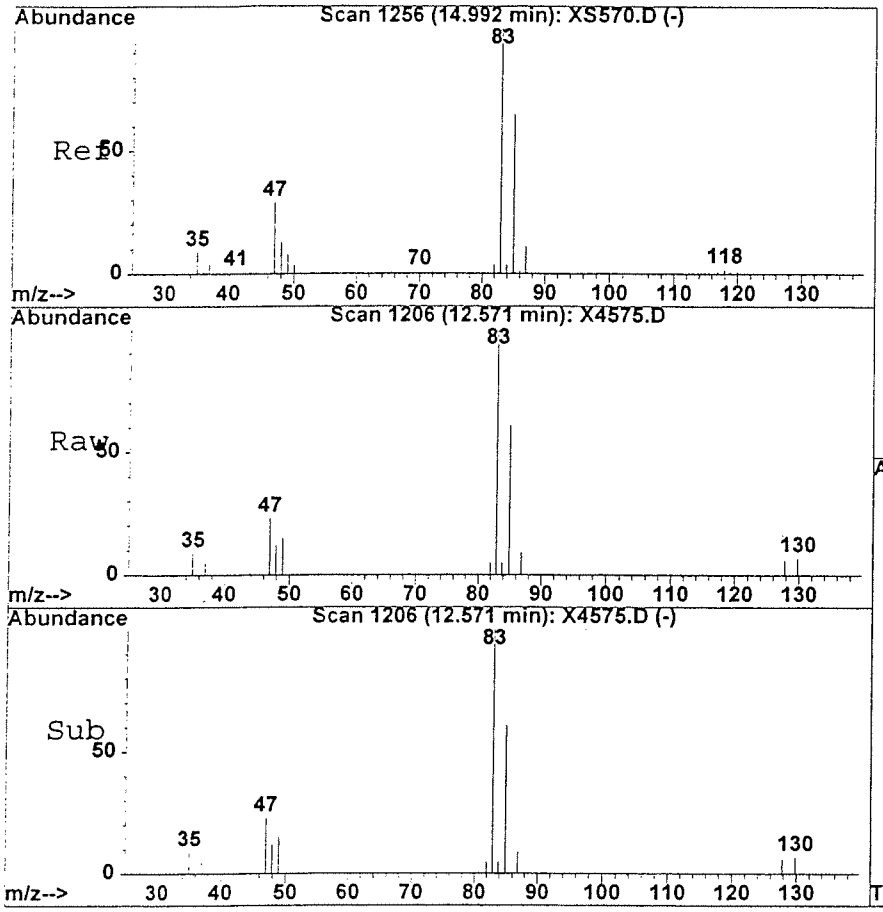
Data File : C:\HPCHEM\1\DATA\051700.B\X4575.D
Acq On : 17 May 2000 17:10
Sample : 215969-06
Misc : MCLAREN/HART GW-04B 8260BPP
MS Integration Params: rteint.p
Quant Time: May 18 14:51 2000

Vial: 8
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D

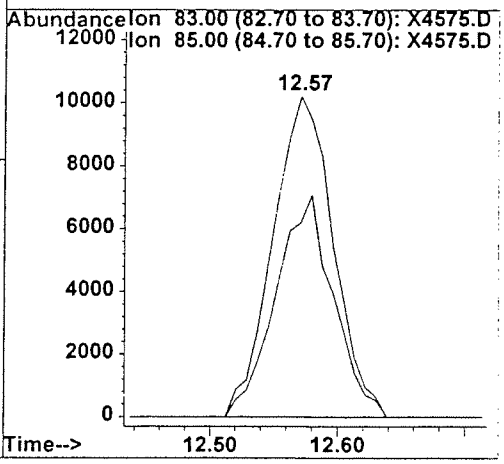


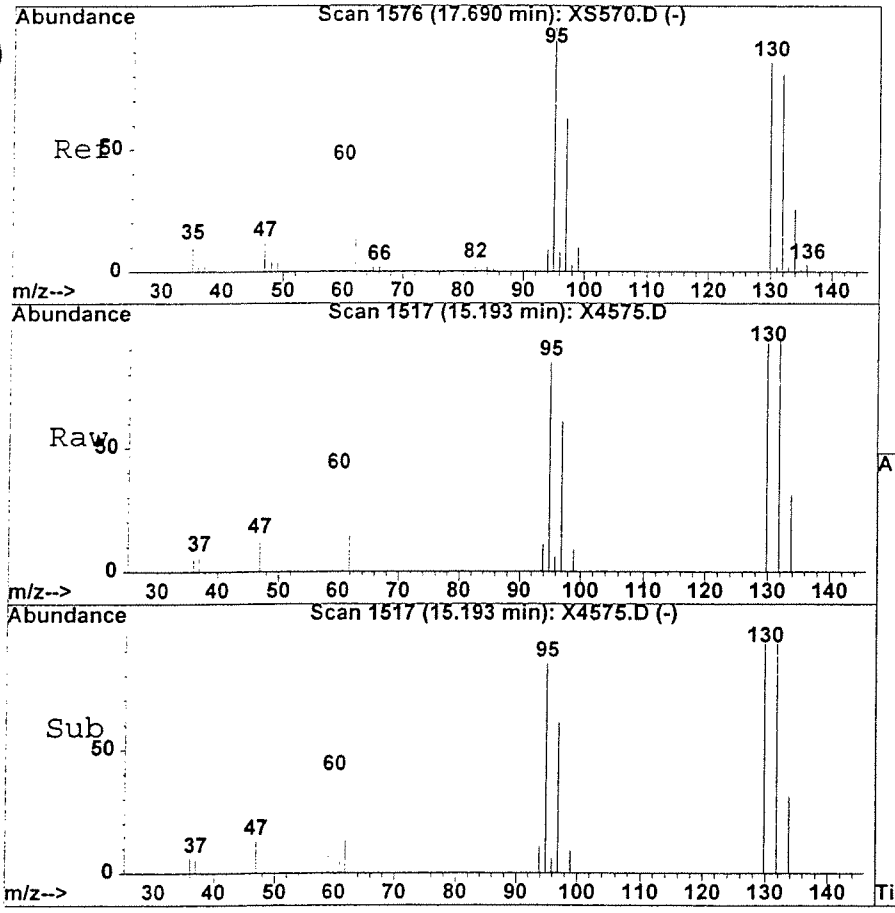


#20
Chloroform
Concen: 1.07 ug/l
RT: 12.57 min Scan# 1206
Delta R.T. 0.00 min
Lab File: X4575.D
Acq: 17 May 2000 17:10

Tgt Ion: 83 Resp: 33561

Ion	Ratio	Lower	Upper
83	100		
85	60.7	43.8	83.8

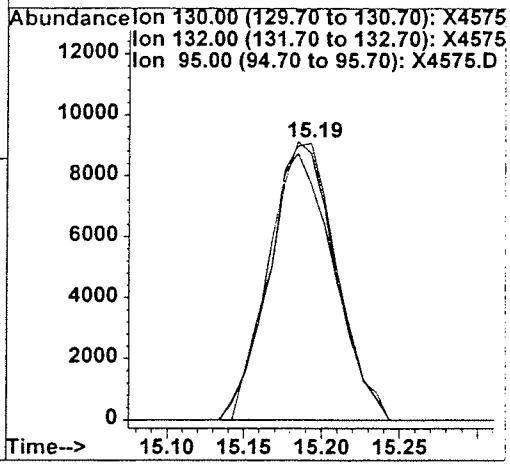




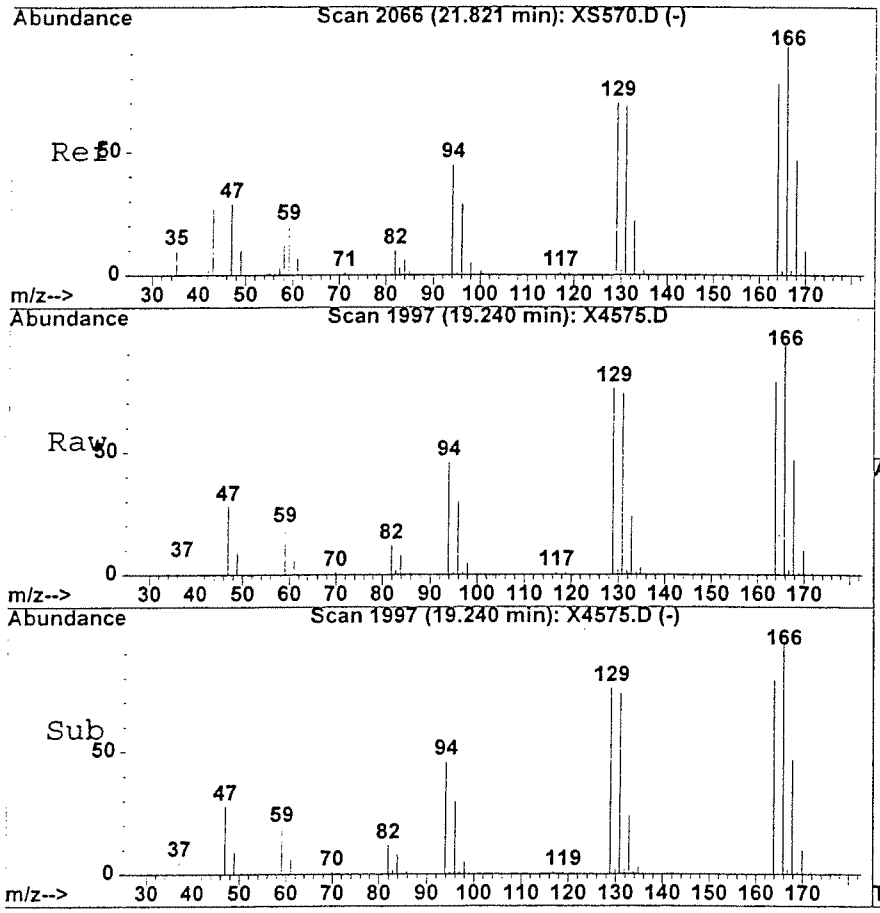
#31
Trichloroethene
Concen: 1.43 ug/l
RT: 15.19 min Scan# 1517
Delta R.T. 0.01 min
Lab File: X4575.D
Acq: 17 May 2000 17:10

Tgt Ion:130 Resp: 27091

Ion	Ratio	Lower	Upper
130	100		
132	96.3	75.9	115.9
95	85.3	84.0	124.0



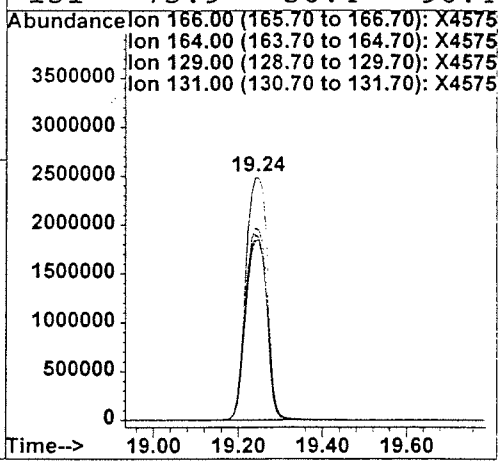
000065



#41
Tetrachloroethene
Concen: 428.45 ug/l
RT: 19.24 min Scan# 1997
Delta R.T. 0.01 min
Lab File: X4575.D
Acq: 17 May 2000 17:10

Tgt Ion:166 Resp: 8931345

Ion	Ratio	Lower	Upper
166	100		
164	79.2	58.0	98.0
129	76.4	58.1	98.1
131	73.9	56.4	96.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4575.D Vial: 8
Acq On : 17 May 2000 17:10 Operator: PULLAR
Sample : 215969-06 Inst : MS 3
Misc : MCLAREN/HART GW-04B 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:51 2000 Quant Results File: CLPVOA.RES

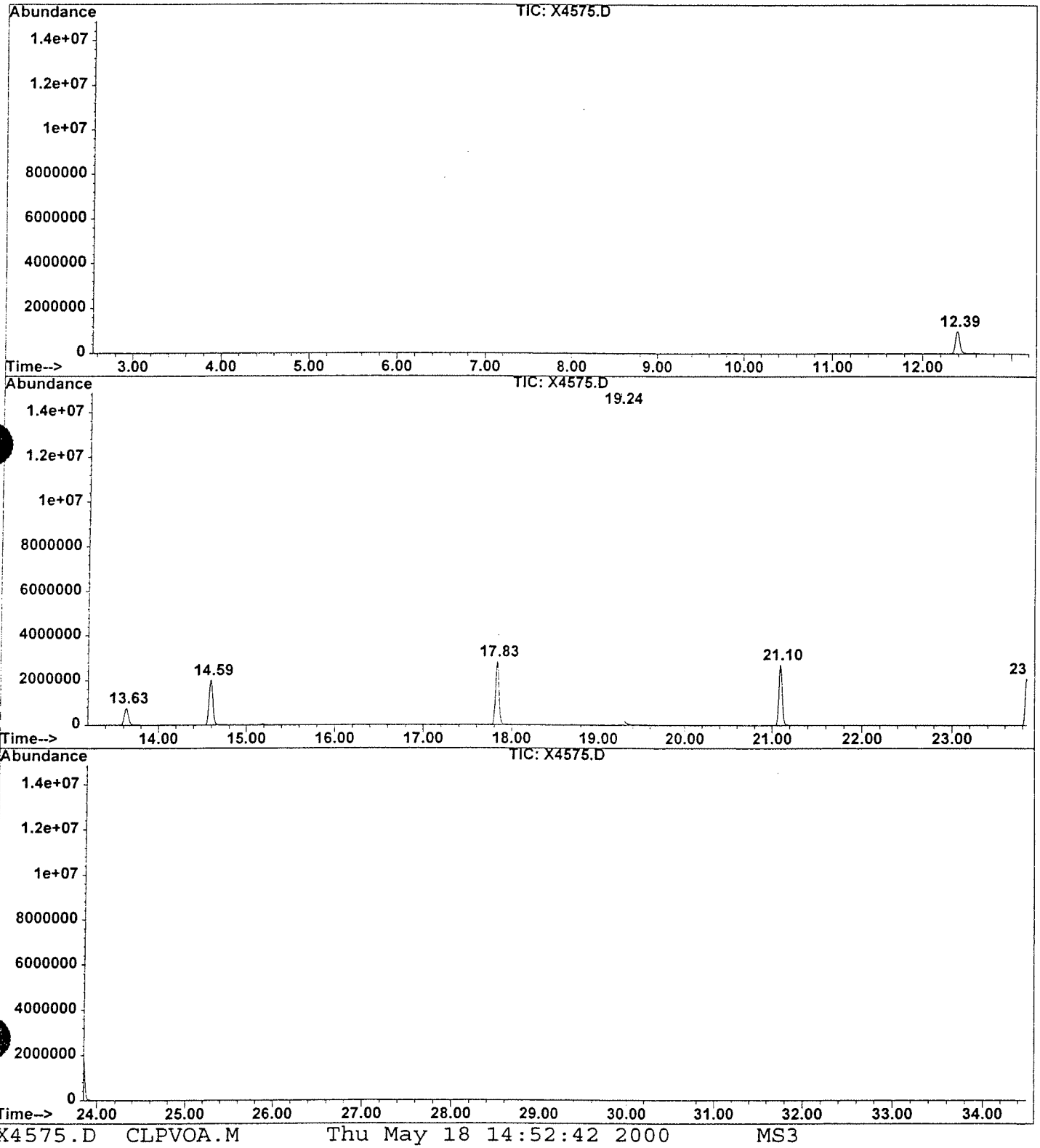
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	752120	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2850791	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2510643	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	918581	50.46	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.92%			
43) Toluene-d8	17.83	98	2917144	50.04	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.08%			
48) Bromofluorobenzene	23.84	95	1084966	46.86	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.72%			
Target Compounds						Qvalue
30) Chloroform	12.57	83	33561	1.07	ug/l	96
31) Trichloroethene	15.19	130	27091	1.43	ug/l	90
41) Tetrachloroethene	19.24	166	8931345	428.45	ug/l	98

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051700.B\X4575.D
Operator : PULLAR
Acquired : 17 May 2000 17:10 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: 215969-06
Misc Info : MCLAREN/HART GW-04B 8260BPP
Vial Number: 8
Quant File :CLPVOA.RES (RTE Integrator)



X4575.D CLPVOA.M Thu May 18 14:52:42 2000 MS3

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 17 May 2000 17:10
Data File: C:\HPCHEM\1\DATA\051700.B\X4575.D
Name: 215969-06
M[redacted]: MCLAREN/HART GW-04B 8260BPP
Method: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

X4575.D CLPVOA.M Thu May 18 14:52:42 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04BDL

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-06DL

Sample wt/vol: 1.00 (g/ml) ML Lab File ID: X4580

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl Chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene Chloride	50.	U
67-64-1	Acetone	50.	U
75-15-0	Carbon Disulfide	50.	U
75-35-4	1,1-Dichloroethene	50.	U
75-34-3	1,1-Dichloroethane	50.	U
108-05-4	Vinyl Acetate	50.	U
156-60-5	1,2-Dichloroethene total	50.	U
67-66-3	Chloroform	50.	U
107-06-2	1,2-Dichloroethane	50.	U
78-93-3	2-Butanone	50.	U
71-55-6	1,1,1-Trichloroethane	50.	U
56-23-5	Carbon Tetrachloride	50.	U
75-27-4	Bromodichloromethane	50.	U
78-87-5	1,2-Dichloropropane	50.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U
79-01-6	Trichloroethene	50.	U
124-48-1	Dibromochloromethane	50.	U
110-75-8	2-Chloroethylvinylether	50.	U
79-00-5	1,1,2-Trichloroethane	50.	U
71-43-2	Benzene	50.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U
75-25-2	Bromoform	50.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	460.	D
79-34-5	1,1,2,2-Tetrachloroethane	50.	U
108-88-3	Toluene	50.	U
108-90-7	Chlorobenzene	50.	U
100-41-4	Ethylbenzene	50.	U
100-42-5	Styrene	50.	U
1330-20-7	total-Xylene	50.	U
541-73-1	1,3-Dichlorobenzene	50.	U
106-46-7	1,4-Dichlorobenzene	50.	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04BDL

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-06DL

Sample wt/vol: 1.00 (g/ml) ML Lab File ID: X4580

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	50.	U

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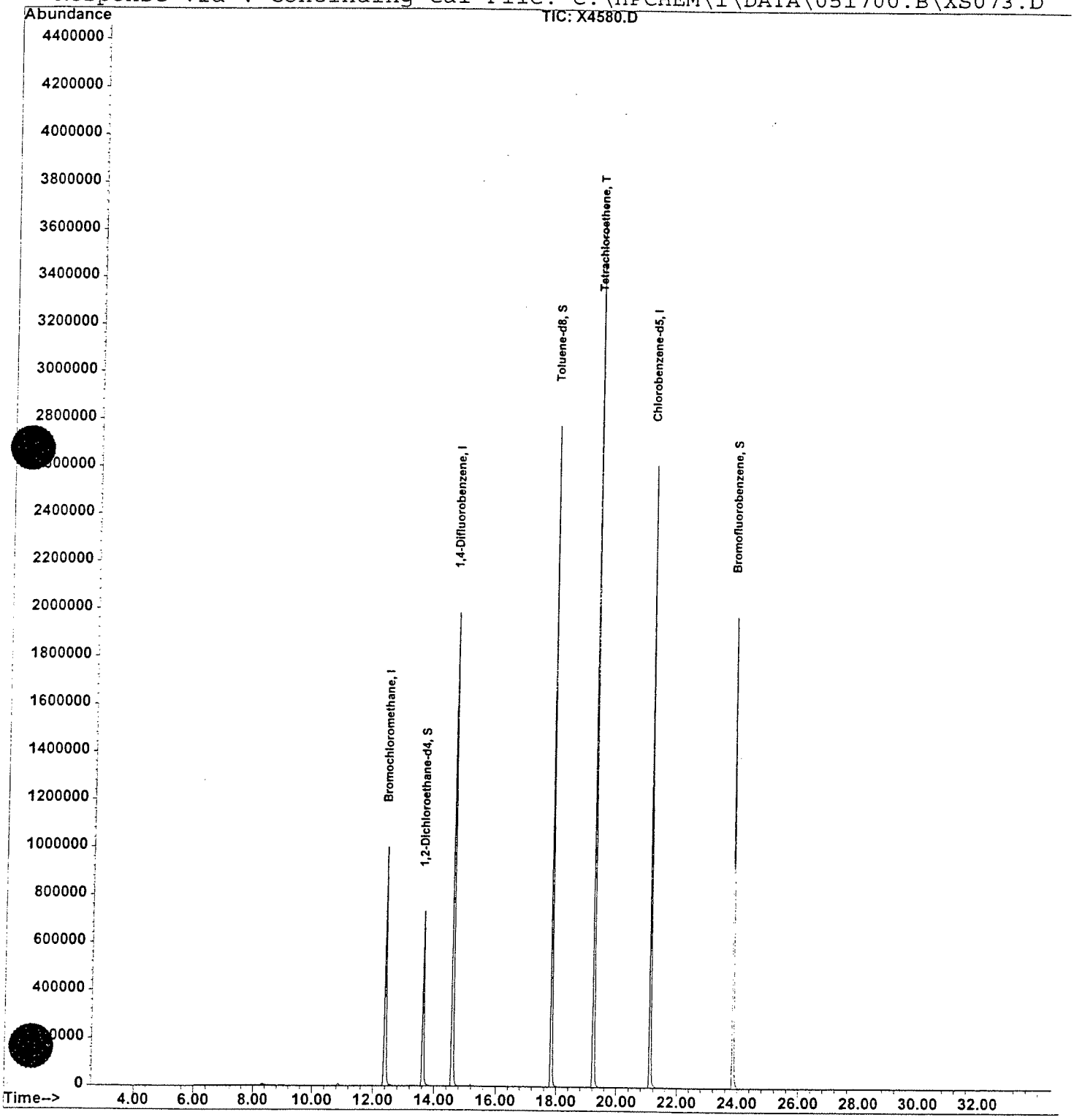
Quantitation Report

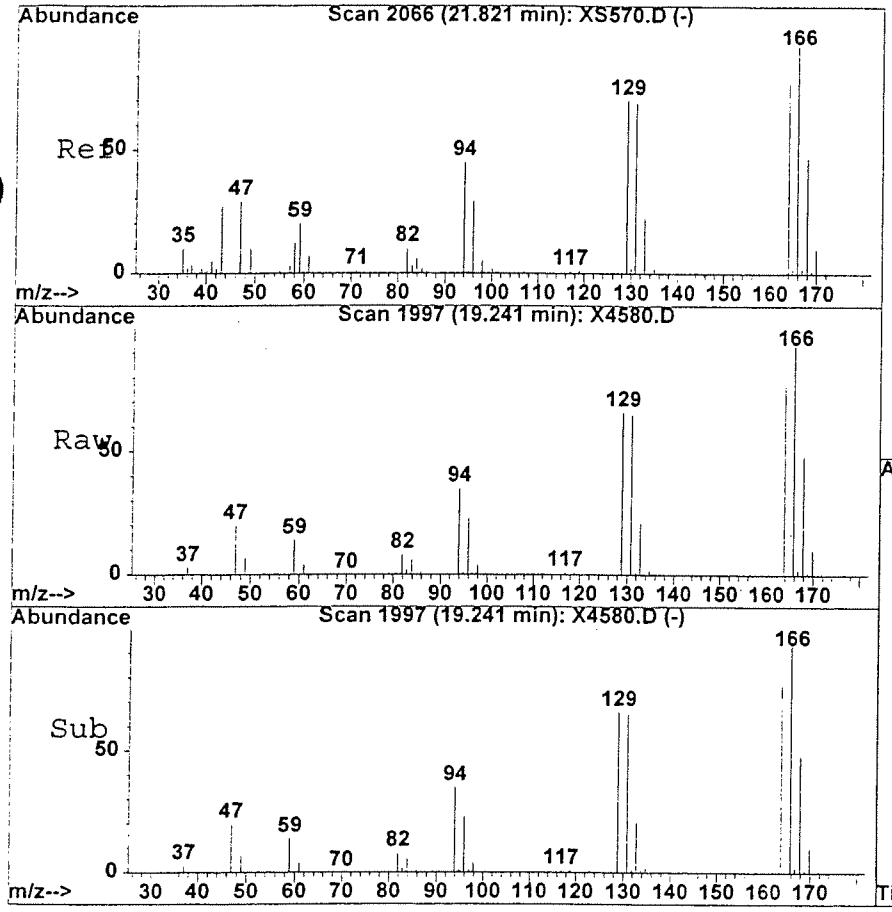
Data File : C:\HPCHEM\1\DATA\051700.B\X4580.D
Acq On : 17 May 2000 20:36
Sample : 215969-06DL
Misc : MCLAREN/HART GW-04B 8260BPP X5
MS Integration Params: rteint.p
Quant Time: May 18 14:21 2000

Vial: 13
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D

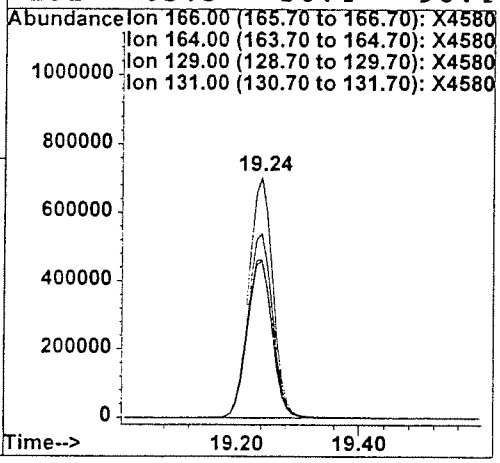




#41
Tetrachloroethene
Concen: 92.64 ug/l
RT: 19.24 min Scan# 1997
Delta R.T. 0.01 min
Lab File: X4580.D
Acq: 17 May 2000 20:36

Tgt Ion:166 Resp: 1931118

Ion	Ratio	Lower	Upper
166	100		
164	76.6	58.0	98.0
129	66.0	58.1	98.1
131	65.3	56.4	96.4



000073

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4580.D
Acq On : 17 May 2000 20:36
Sample : 215969-06DL
Misc : MCLAREN/HART GW-04B 8260BPP X5
MS Integration Params: rteint.p
Quant Time: May 18 14:21 2000

Vial: 13
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	749935	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2901788	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2510536	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	899209	49.54	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.08%			
43) Toluene-d8	17.83	98	2911669	49.95	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.90%			
48) Bromofluorobenzene	23.84	95	1080441	46.67	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.34%			
Target Compounds						Qvalue
91) Tetrachloroethene	19.24	166	1931118	92.64	ug/l	91

(#) = qualifier out of range (m) = manual integration

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-07

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4576

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	1.	J
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	440.	E
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

FORM I VOA 3/90

STL Committed To Your Success
NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-07

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4576

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

FORM I VOA 3/90

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NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-05

ab Name:Severn Trent Laboratories Contract:12-0806098

ab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-07

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4576

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

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

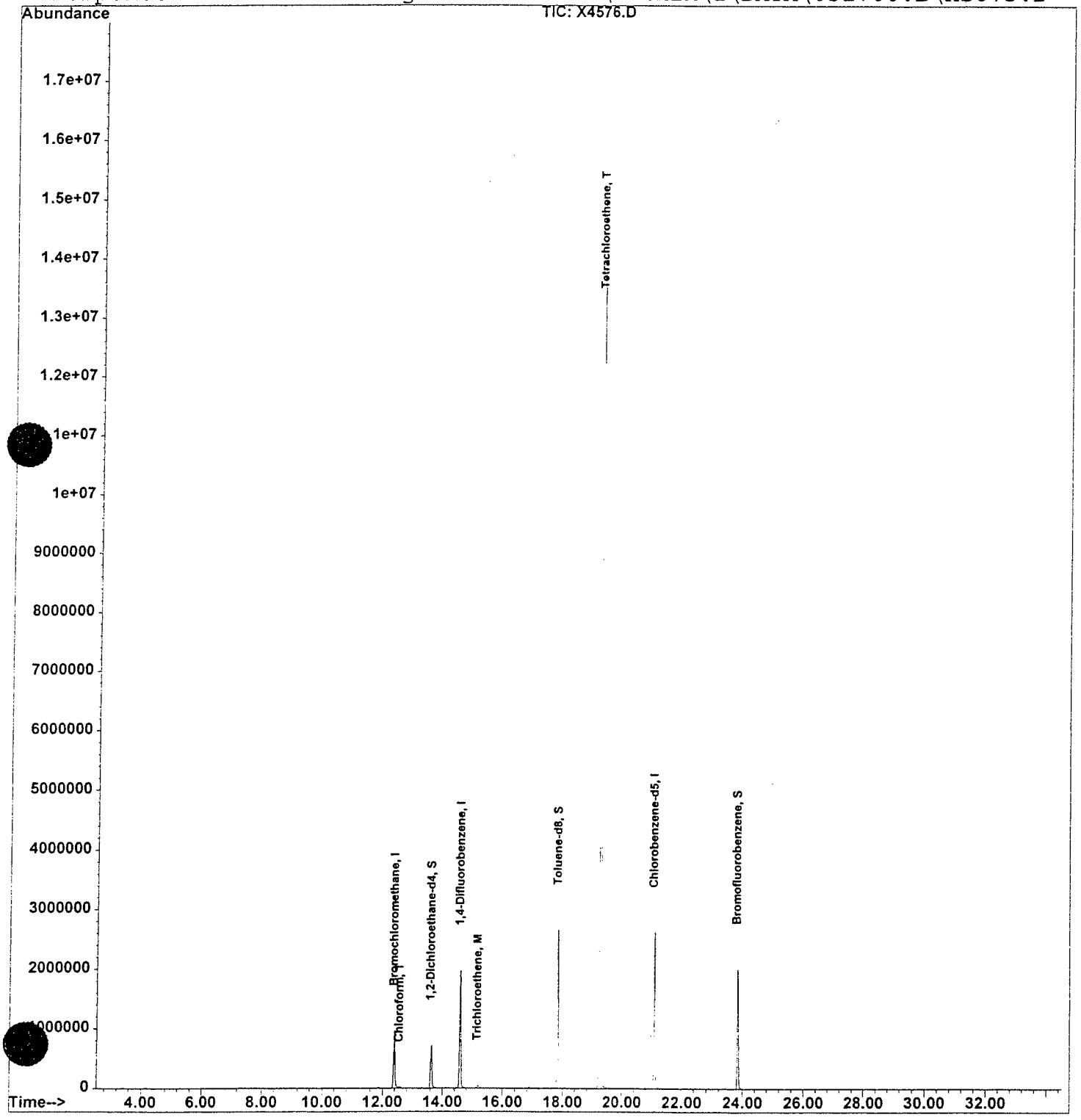
STL Committed To Your Success
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

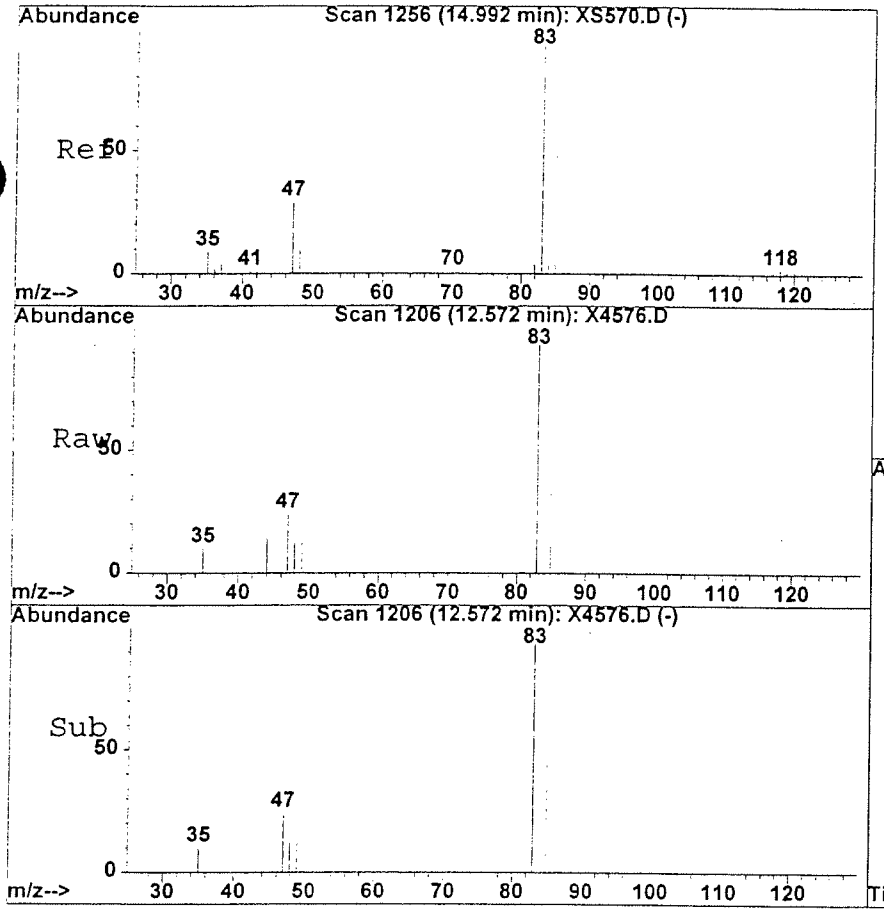
Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4576.D Vial: 9
Acq On : 17 May 2000 17:51 Operator: PULLAR
Sample : 215969-07 Inst : MS 3
Misc : MCLAREN/HART GW-05 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:14 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



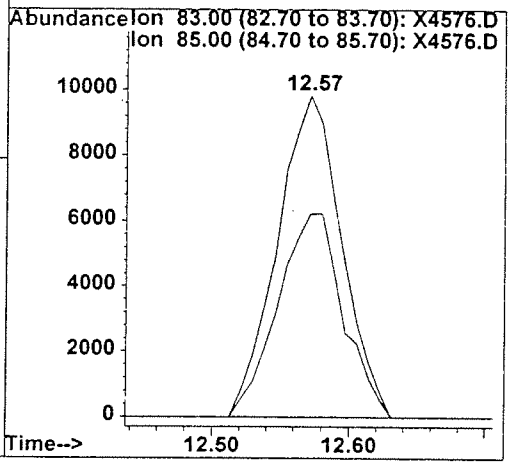
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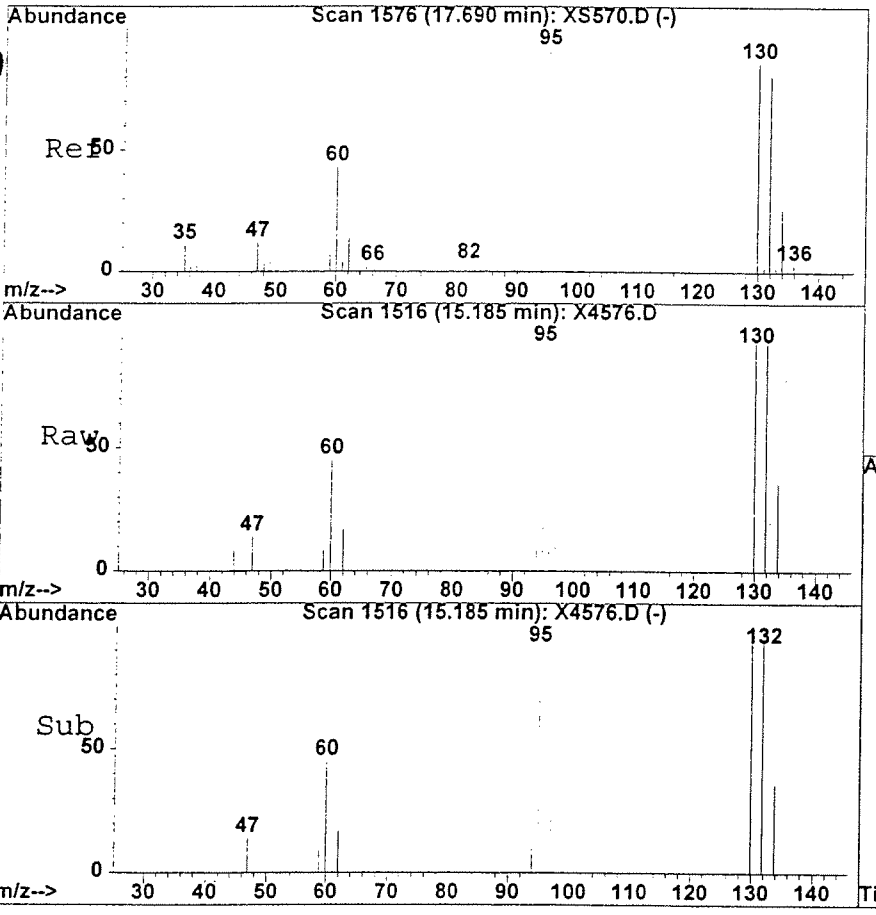


#20
Chloroform
Concen: 1.05 ug/l
RT: 12.57 min Scan# 1206
Delta R.T. 0.00 min
Lab File: X4576.D
Acq: 17 May 2000 17:51

Tgt Ion: 83 Resp: 31707

Ion	Ratio	Lower	Upper
83	100		
85	63.4	43.8	83.8

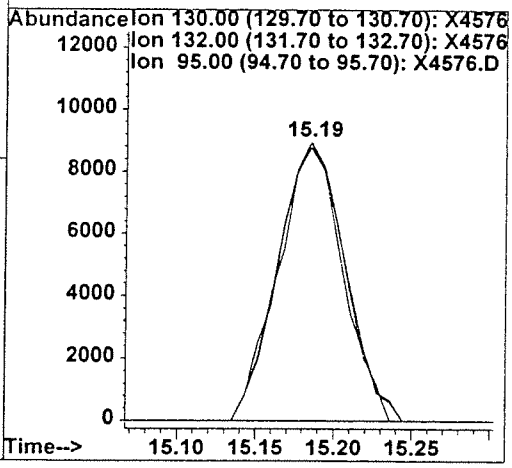


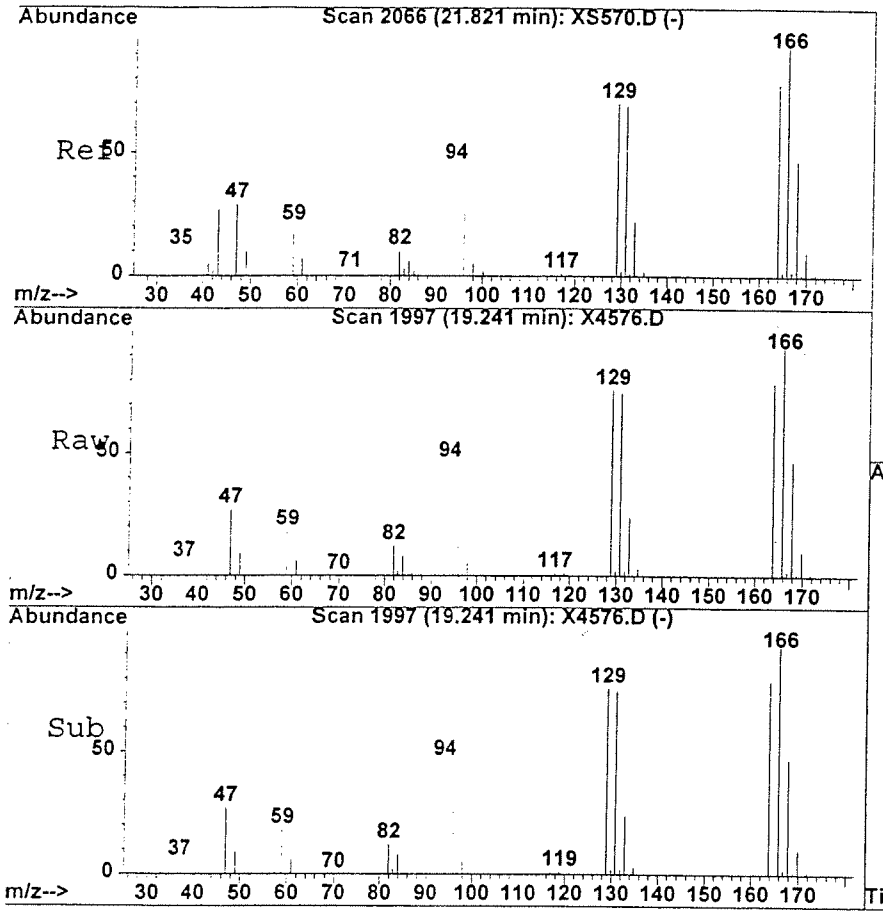


#31
Trichloroethene
Concen: 1.43 ug/l
RT: 15.19 min Scan# 1516
Delta R.T. 0.00 min
Lab File: X4576.D
Acq: 17 May 2000 17:51

Tgt Ion:130 Resp: 26067

Ion	Ratio	Lower	Upper
130	100		
132	100.0	75.9	115.9
95	98.3	84.0	124.0

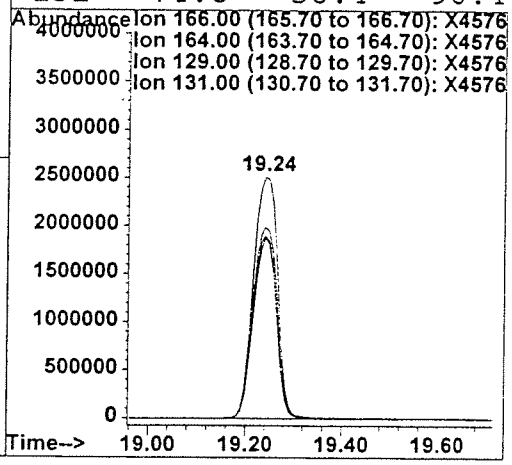




#41
Tetrachloroethene
Concen: 441.36 ug/l
RT: 19.24 min Scan# 1997
Delta R.T. 0.01 min
Lab File: X4576.D
Acq: 17 May 2000 17:51

Tgt Ion:166 Resp: 8899104

Ion	Ratio	Lower	Upper
166	100		
164	79.2	58.0	98.0
129	75.6	58.1	98.1
131	74.8	56.4	96.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4576.D Vial: 9
Acq On : 17 May 2000 17:51 Operator: PULLAR
Sample : 215969-07 Inst : MS 3
Misc : MCLAREN/HART GW-05 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:14 2000 Quant Results File: CLPVOA.RES

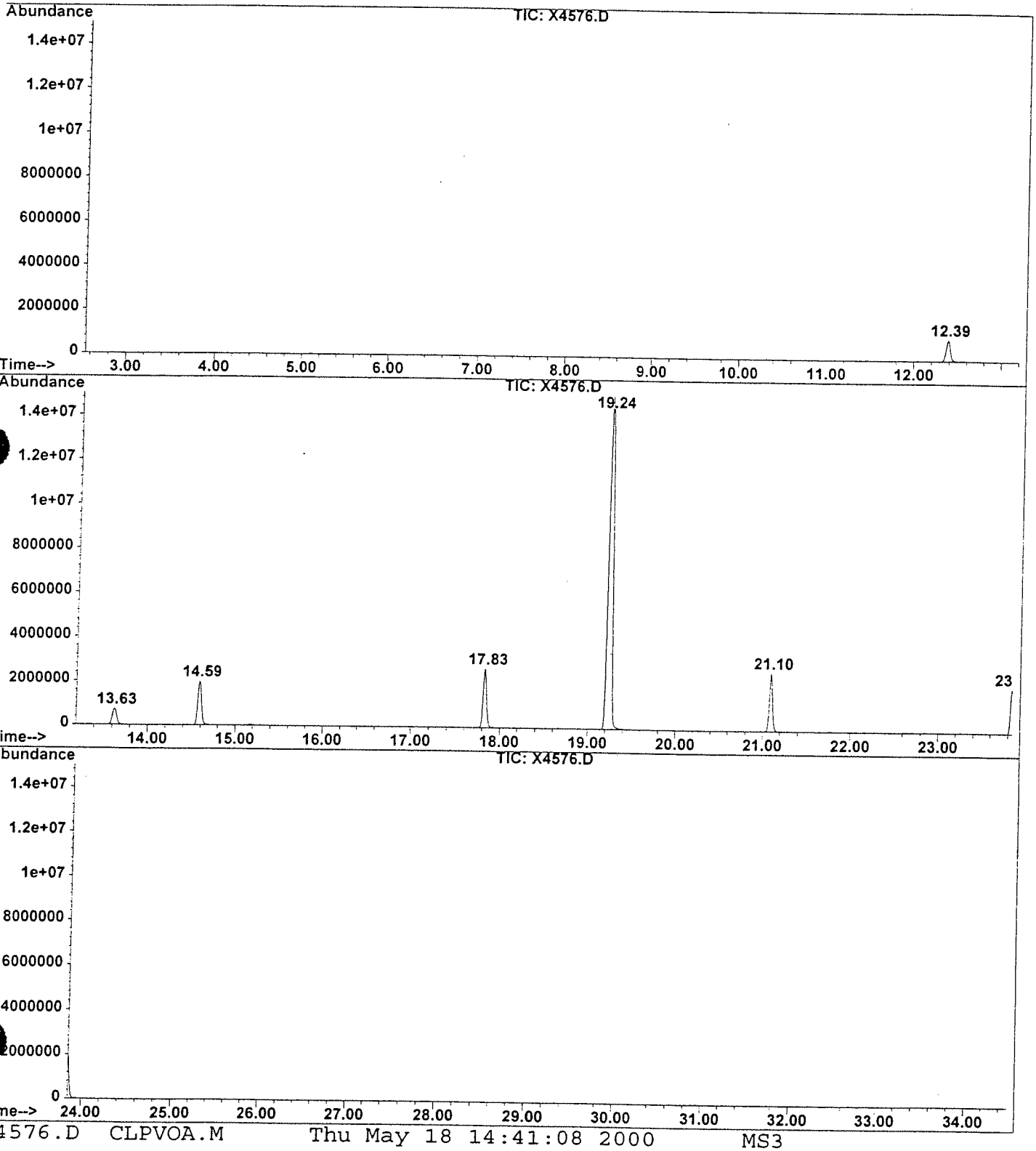
Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	723578	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2752177	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2428389	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	884396	50.50	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.00%			
43) Toluene-d8	17.83	98	2841414	50.39	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.78%			
48) Bromofluorobenzene	23.84	95	1060801	47.37	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 94.74%			
Target Compounds						Qvalue
10) Chloroform	12.57	83	31707	1.05	ug/l	100
31) Trichloroethene	15.19	130	26067	1.43	ug/l	95
41) Tetrachloroethene	19.24	166	8899104	441.36	ug/l	98

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051700.B\X4576.D
Operator : PULLAR
Acquired : 17 May 2000 17:51 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: 215969-07
Misc Info : MCLAREN/HART GW-05 8260BPP
Vial Number: 9
Quant File :CLPVOA.RES (RTE Integrator)



X4576.D CLPVOA.M Thu May 18 14:41:08 2000 MS3

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 17 May 2000 17:51
Data File: C:\HPCHEM\1\DATA\051700.B\X4576.D
Name: 215969-07
File: MCLAREN/HART GW-05 8260BPP
Method: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

X4576.D CLPVOA.M Thu May 18 14:41:08 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05DL

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-07DL

Sample wt/vol: 1.00 (g/ml) ML Lab File ID: X4584

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/19/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl Chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene Chloride	50.	U
67-64-1	Acetone	50.	U
75-15-0	Carbon Disulfide	50.	U
75-35-4	1,1-Dichloroethene	50.	U
75-34-3	1,1-Dichloroethane	50.	U
108-05-4	Vinyl Acetate	50.	U
156-60-5	1,2-Dichloroethene total	50.	U
67-66-3	Chloroform	50.	U
107-06-2	1,2-Dichloroethane	50.	U
78-93-3	2-Butanone	50.	U
71-55-6	1,1,1-Trichloroethane	50.	U
56-23-5	Carbon Tetrachloride	50.	U
75-27-4	Bromodichloromethane	50.	U
78-87-5	1,2-Dichloropropane	50.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U
79-01-6	Trichloroethene	50.	U
124-48-1	Dibromochloromethane	50.	U
110-75-8	2-Chloroethylvinylether	50.	U
79-00-5	1,1,2-Trichloroethane	50.	U
71-43-2	Benzene	50.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U
75-25-2	Bromoform	50.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	620.	D
79-34-5	1,1,2,2-Tetrachloroethane	50.	U
108-88-3	Toluene	50.	U
108-90-7	Chlorobenzene	50.	U
100-41-4	Ethylbenzene	50.	U
100-42-5	Styrene	50.	U
1330-20-7	total-Xylene	50.	U
541-73-1	1,3-Dichlorobenzene	50.	U
106-46-7	1,4-Dichlorobenzene	50.	U

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NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05DL

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-07DL

Sample wt/vol: 1.00 (g/ml) ML Lab File ID: X4584

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/19/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	50.	U

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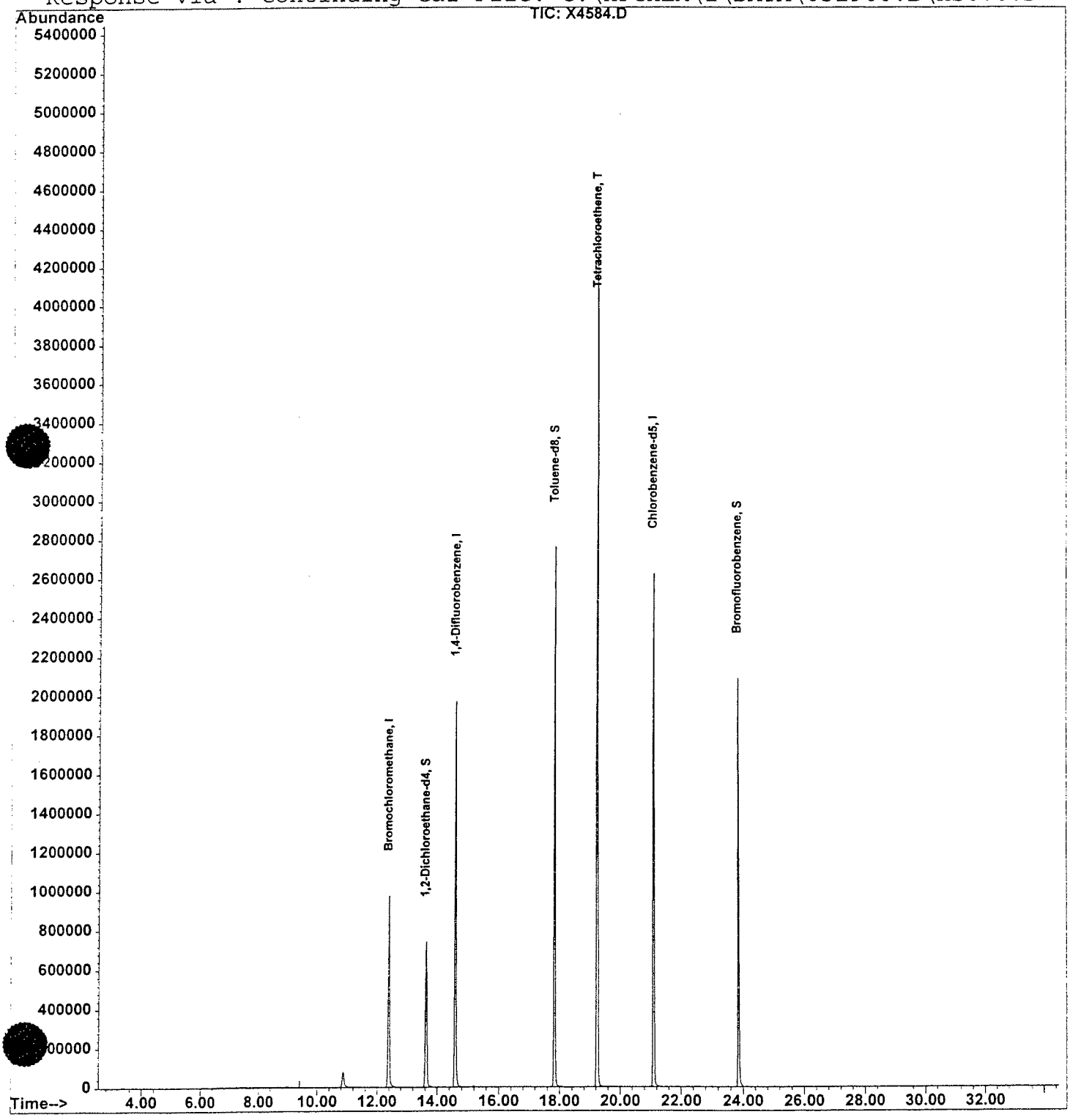
NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

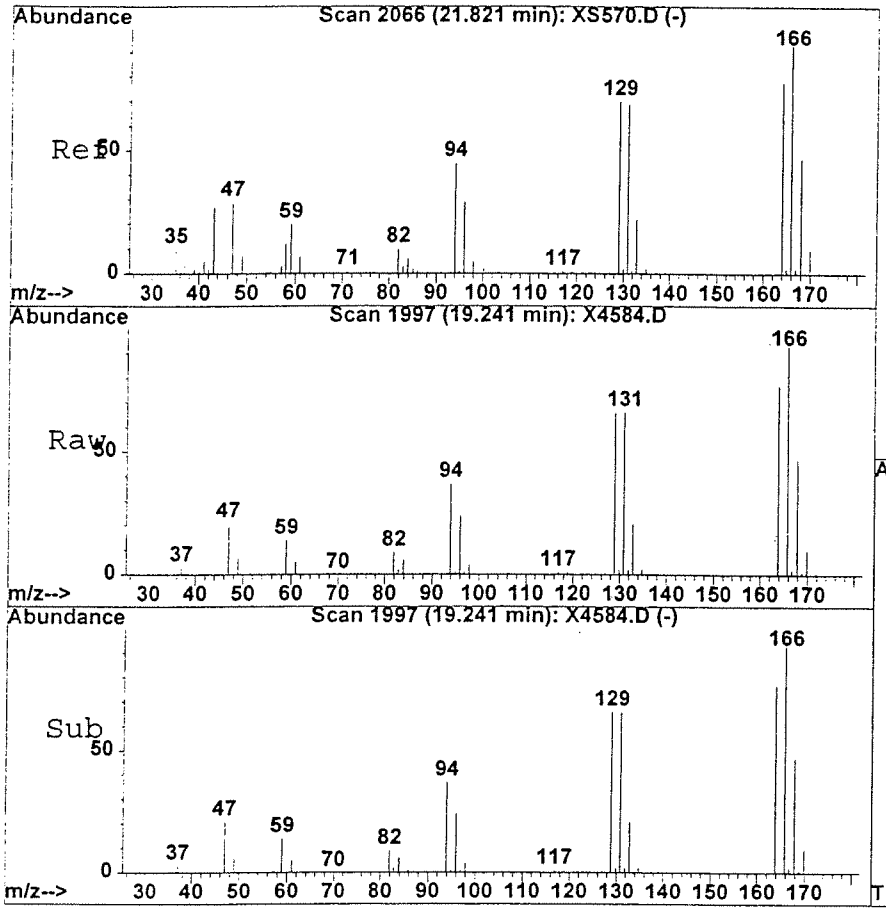
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

Quantitation Report

Data File : C:\HPCHEM\1\DATA\051900.B\X4584.D Vial: 7
Acq On : 19 May 2000 17:14 Operator: PULLAR
Sample : 215969-07DL Inst : MS 3
Misc : MCLAREN/HART GW-05 8260BPP X5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 20 11:56 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri May 19 16:17:53 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051900.B\XS076.D

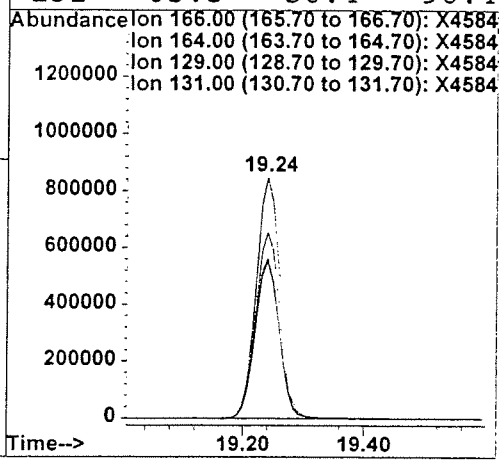




#41
Tetrachloroethene
Concen: 123.62 ug/l
RT: 19.24 min Scan# 1997
Delta R.T. 0.00 min
Lab File: X4584.D
Acq: 19 May 2000 17:14

Tgt Ion:166 Resp: 2281856

Ion	Ratio	Lower	Upper
166	100		
164	77.3	58.0	98.0
129	66.5	58.1	98.1
131	65.5	56.4	96.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051900.B\X4584.D Vial: 7
Acq On : 19 May 2000 17:14 Operator: PULLAR
Sample : 215969-07DL Inst : MS 3
Misc : MCLAREN/HART GW-05 8260BPP X5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 20 11:56 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051900.B\XS076.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	728733	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.60	114	2804959	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2462917	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	884704	51.17	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 102.34%			
43) Toluene-d8	17.83	98	2852455	50.49	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.98%			
48) Bromofluorobenzene	23.85	95	1047288	46.35	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.70%			
Target Compounds						Qvalue
1) Tetrachloroethene	19.24	166	2281856	123.62	ug/l	91

(#) = qualifier out of range (m) = manual integration

Response Factor Report MS 3

Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:35:28 2000
Response via : Initial Calibration

Calibration Files
10 =XS002.D 20 =XS001.D 50 =XS000.D
100 =XS999.D 200 =XS998.D

		Compound	10	20	50	100	200	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	T	Dichlorodifluorometha	0.926	1.018	0.897	0.875	0.911	0.925	5.94
3)	T	Chloromethane	1.234	1.319	1.123	1.028	1.023	1.145	11.31
4)	T	Bromomethane	0.612	0.670	0.596	0.565	0.487	0.586	11.45
5)	T	Vinyl Chloride	1.159	1.265	1.086	1.051	1.040	1.120	8.35
6)	T	Chloroethane	0.453	0.513	0.446	0.450	0.416	0.456	7.75
7)	T	Trichlorofluoromethan	0.549	0.677	0.599	0.620	0.641	0.617	7.75
8)	T	Freon-123A	1.020	1.116	0.953	0.997	0.952	1.008	6.69
9)	T	FC-113	0.881	0.949	0.808	0.836	0.810	0.857	6.89
.0)	T	Methylene Chloride	1.463	1.548	1.329	1.397	1.347	1.417	6.35
.1)	T	Acetone	0.316	0.289	0.224	0.244	0.217	0.258	16.64
.2)	T	Carbon Disulfide	2.610	2.828	2.398	2.480	2.446	2.552	6.79
.3)	T	Acrolein	0.107	0.114	0.099	0.106	0.102	0.105	5.36
.4)	T	Acrylonitrile	0.321	0.342	0.287	0.321	0.295	0.313	7.09
.5)	T	MTBE	1.856	1.944	1.598	1.775	1.640	1.762	8.22
6)	M	1,1-Dichloroethene	1.133	1.239	1.054	1.100	1.064	1.118	6.66
7)	T	1,1-Dichloroethane	1.903	2.031	1.759	1.842	1.761	1.859	6.10
8)	T	trans-1,2-Dichloroeth	1.570	1.690	1.419	1.486	1.375	1.508	8.32
9)	T	cis-1,2-Dichloroethen	1.510	1.633	1.391	1.457	1.374	1.473	7.10
0)	T	Chloroform	1.822	1.945	1.692	1.766	1.691	1.783	5.94
1)	S	1,2-Dichloroethane-d4	1.226	1.149	1.043	1.136	1.041	1.119	6.98
2)	T	1,2-Dichloroethane	1.277	1.340	1.176	1.206	1.093	1.218	7.78
3)	T	2-Butanone	0.492	0.485	0.402	0.436	0.376	0.438	11.49
4)	T	Vinyl Acetate	1.929	2.075	1.788	2.027	1.937	1.951	5.63
5)	I	1,4-Difluorobenzene	----------ISTD----------						
6)	T	1,1,1-Trichloroethane	0.365	0.388	0.349	0.370	0.359	0.366	4.04
7)	T	Carbon Tetrachloride	0.329	0.363	0.320	0.343	0.331	0.337	4.93
8)	T	Bromodichloromethane	0.342	0.377	0.335	0.356	0.338	0.350	4.89
9)	T	1,2-Dichloropropane	0.269	0.290	0.250	0.265	0.246	0.264	6.69
0)	T	cis-1,3-Dichloroprope	0.413	0.456	0.404	0.425	0.400	0.420	5.34
1)	M	Trichloroethene	0.320	0.341	0.302	0.314	0.292	0.314	5.97
2)	M	Benzene	1.053	1.111	0.983	0.997	0.885	1.006	8.37
3)	T	Dibromochloromethane	0.312	0.338	0.306	0.324	0.308	0.318	4.22
4)	T	2-Chloroethylvinyleth	0.062	0.066	0.053	0.059	0.043	0.057	16.08
5)	T	trans-1,3-Dichloropro	0.362	0.393	0.350	0.374	0.355	0.367	4.70
6)	T	1,1,2-Trichloroethane	0.235	0.244	0.214	0.229	0.214	0.227	5.80
7)	T	Bromoform	0.206	0.231	0.206	0.228	0.214	0.217	5.49
8)	I	Chlorobenzene-d5	----------ISTD----------						
9)	T	4-Methyl-2-Pentanone	0.093	0.097	0.088	0.104	0.103	0.097	7.09
0)	T	2-Hexanone	0.085	0.092	0.088	0.106	0.106	0.095	10.56
.)	T	Tetrachloroethene	0.423	0.454	0.403	0.428	0.416	0.425	4.43

= Out of Range

Response Factor Report MS 3

Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:35:28 2000
Response via : Initial Calibration

Calibration Files
10 =XS002.D 20 =XS001.D 50 =XS000.D
100 =XS999.D 200 =XS998.D

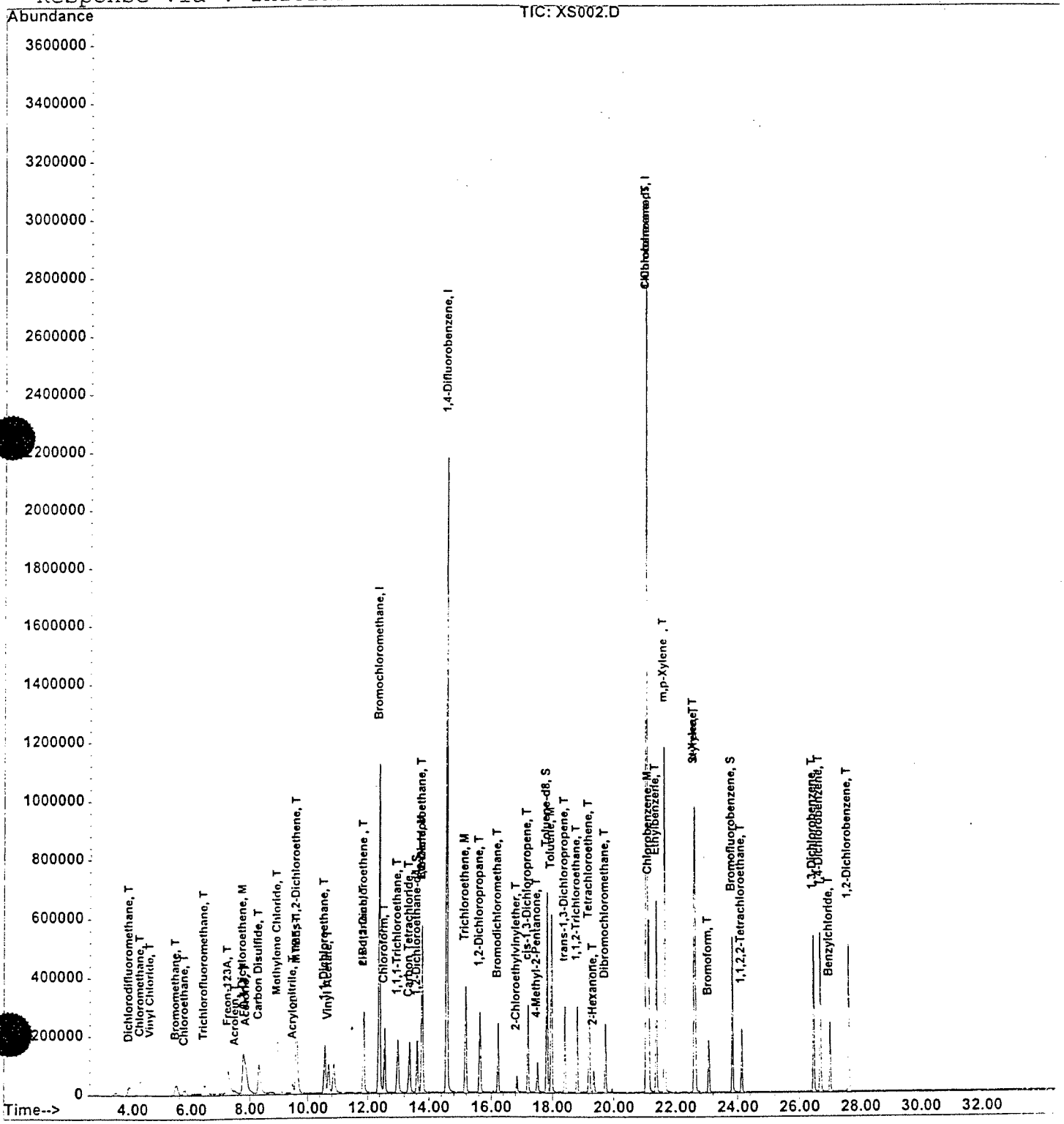
		Compound	10	20	50	100	200	Avg	%RSD
42)	T	1,1,2,2-Tetrachloroet	0.347	0.365	0.325	0.376	0.373	0.357	5.92
43)	S	Toluene-d8	1.340	1.276	1.158	1.273	1.194	1.248	5.77
44)	M	Toluene	0.785	0.840	0.746	0.796	0.772	0.788	4.38
45)	T	1-Chlorohexane	0.323	0.327	0.278	0.296	0.289	0.303	7.15
46)	M	Chlorobenzene	0.944	1.014	0.896	0.954	0.931	0.948	4.54
47)	T	Ethylbenzene	1.451	1.559	1.376	1.457	1.401	1.449	4.85
48)	S	Bromofluorobenzene	0.529	0.508	0.448	0.513	0.488	0.497	6.30
49)	T	m,p-Xylene	1.100	1.155	0.995	1.007	0.897	1.031	9.69
50)	T	o-Xylene	1.114	1.189	1.037	1.062	0.981	1.077	7.31
51)	T	Styrene	0.960	1.038	0.906	0.919	0.817	0.928	8.70
52)	T	1,3-Dichlorobenzene	0.744	0.792	0.715	0.780	0.748	0.756	4.06
53)	T	1,4-Dichlorobenzene	0.741	0.796	0.712	0.772	0.744	0.753	4.22
54)	T	1,2-Dichlorobenzene	0.692	0.738	0.661	0.734	0.711	0.707	4.48
55)	T	Benzylchloride	0.515	0.580	0.553	0.662	0.681	0.598	11.91

(#) = Out of Range

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031600.B\XS002.D Vial: 6
Acq On : 16 Mar 2000 13:35 Operator: PULLAR
Sample : VSTD010 Inst : MS 3
Misc : VSTD010 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 14:09 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\031600.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:48:58 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS002.D Vial: 6
Acq On : 16 Mar 2000 13:35 Operator: PULLAR
Sample : VSTD010 Inst : MS 3
Misc : VSTD010 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 14:09 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	12.39	49	825205	50.00	ug/l		0.00
25) 1,4-Difluorobenzene	14.58	114	3279702	50.00	ug/l		0.00
38) Chlorobenzene-d5	21.09	117	2720872	50.00	ug/l		0.00
System Monitoring Compounds							
21) 1,2-Dichloroethane-d4	13.63	65	202289	6.19	ug/l		0.00
Spiked Amount 50.000	Range 76 - 114		Recovery =	12.38%	#		
43) Toluene-d8	17.82	98	729046	10.25	ug/l		0.00
Spiked Amount 50.000	Range 88 - 110		Recovery =	20.50%	#		
48) Bromofluorobenzene	23.84	95	288006	9.43	ug/l		0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	18.86%	#		
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.89	85	152888	8.14	ug/l	#	98
3) Chloromethane	4.27	50	203596	10.85	ug/l		98
4) Bromomethane	5.49	94	100973	6.83	ug/l		93
5) Vinyl Chloride	4.61	62	191320	9.78	ug/l		100
6) Chloroethane	5.79	64	74803	8.44	ug/l		99
7) Trichlorofluoromethane	6.44	101	90598	6.65	ug/l		96
8) Freon-123A	7.27	67	168305	8.31	ug/l		97
9) FC-113	7.84	101	145469	8.02	ug/l		95
10) Methylene Chloride	8.95	49	241511	9.88	ug/l		99
11) Acetone	7.89	43	52206	7.69	ug/l		82
12) Carbon Disulfide	8.31	76	430675	8.83	ug/l		100
13) Acrolein	7.51	56	17613	9.30	ug/l		96
14) Acrylonitrile	9.50	53	52951	10.83	ug/l		83
15) MTBE	9.65	73	306250	9.10	ug/l	#	92
16) 1,1-Dichloroethene	7.77	61	186971	7.58	ug/l		88
17) 1,1-Dichloroethane	10.57	63	313994	8.70	ug/l		95
18) trans-1,2-Dichloroethene	9.62	61	259152	8.50	ug/l		95
19) cis-1,2-Dichloroethene	11.87	61	249284	8.36	ug/l		85
20) Chloroform	12.56	83	300742	7.41	ug/l		98
22) 1,2-Dichloroethane	13.79	62	210773	6.17	ug/l		95
23) 2-Butanone	11.88	43	81172	9.31	ug/l		96
24) Vinyl Acetate	10.69	43	318428	9.03	ug/l		98
26) 1,1,1-Trichloroethane	12.99	97	239257	7.81	ug/l		99
27) Carbon Tetrachloride	13.37	117	216033	7.63	ug/l		97
28) Bromodichloromethane	16.23	83	224620	8.04	ug/l		98
29) 1,2-Dichloropropane	15.63	63	176729	11.35	ug/l		99
30) cis-1,3-Dichloropropene	17.20	75	270589	9.64	ug/l		98
31) Trichloroethene	15.18	130	210082	10.92	ug/l		92

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\031600.B\XS002.D Vial: 6
Acq On : 16 Mar 2000 13:35 Operator: PULLAR
Sample : VSTD010 Inst : MS 3
Misc : VSTD010 Multiplr: 1.00
IS Integration Params: rteint.p
Quant Time: Mar 16 14:09 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Benzene	13.78	78	690541	10.59	ug/l		100
33)	Dibromochloromethane	19.75	129	204603	9.39	ug/l		99
34)	2-Chloroethylvinylether	16.85	63	40651	16.65	ug/l		95
35)	trans-1,3-Dichloropropene	18.41	75	237290	8.70	ug/l		97
36)	1,1,2-Trichloroethane	18.83	97	154006	10.19	ug/l		97
37)	Bromoform	23.07	173	135174	10.47	ug/l		99
39)	4-Methyl-2-Pentanone	17.51	58	50588	12.17	ug/l		93
40)	2-Hexanone	19.37	58	46042	10.72	ug/l	#	86
41)	Tetrachloroethene	19.22	166	230113	12.29	ug/l		90
42)	1,1,2,2-Tetrachloroethane	24.13	83	188854	10.82	ug/l		97
44)	Toluene	17.97	92	427186	10.51	ug/l		94
45)	1-Chlorohexane	21.08	55	175849	9.64	ug/l		89
46)	Chlorobenzene	21.15	112	513773	10.74	ug/l		98
[illegible])	Ethylbenzene	21.40	91	789327	9.74	ug/l		98
[illegible])	m,p-Xylene	21.67	91	1197286	19.21	ug/l		93
50)	o-Xylene	22.60	91	606171	9.50	ug/l		91
51)	Styrene	22.63	104	522376	10.58	ug/l		100
52)	1,3-Dichlorobenzene	26.48	146	404759	11.55	ug/l		94
53)	1,4-Dichlorobenzene	26.69	146	403102	11.37	ug/l		96
54)	1,2-Dichlorobenzene	27.60	146	376576	11.69	ug/l		93
55)	Benzylchloride	27.00	91	280010	9.48	ug/l	#	90

(#) = qualifier out of range (m) = manual integration

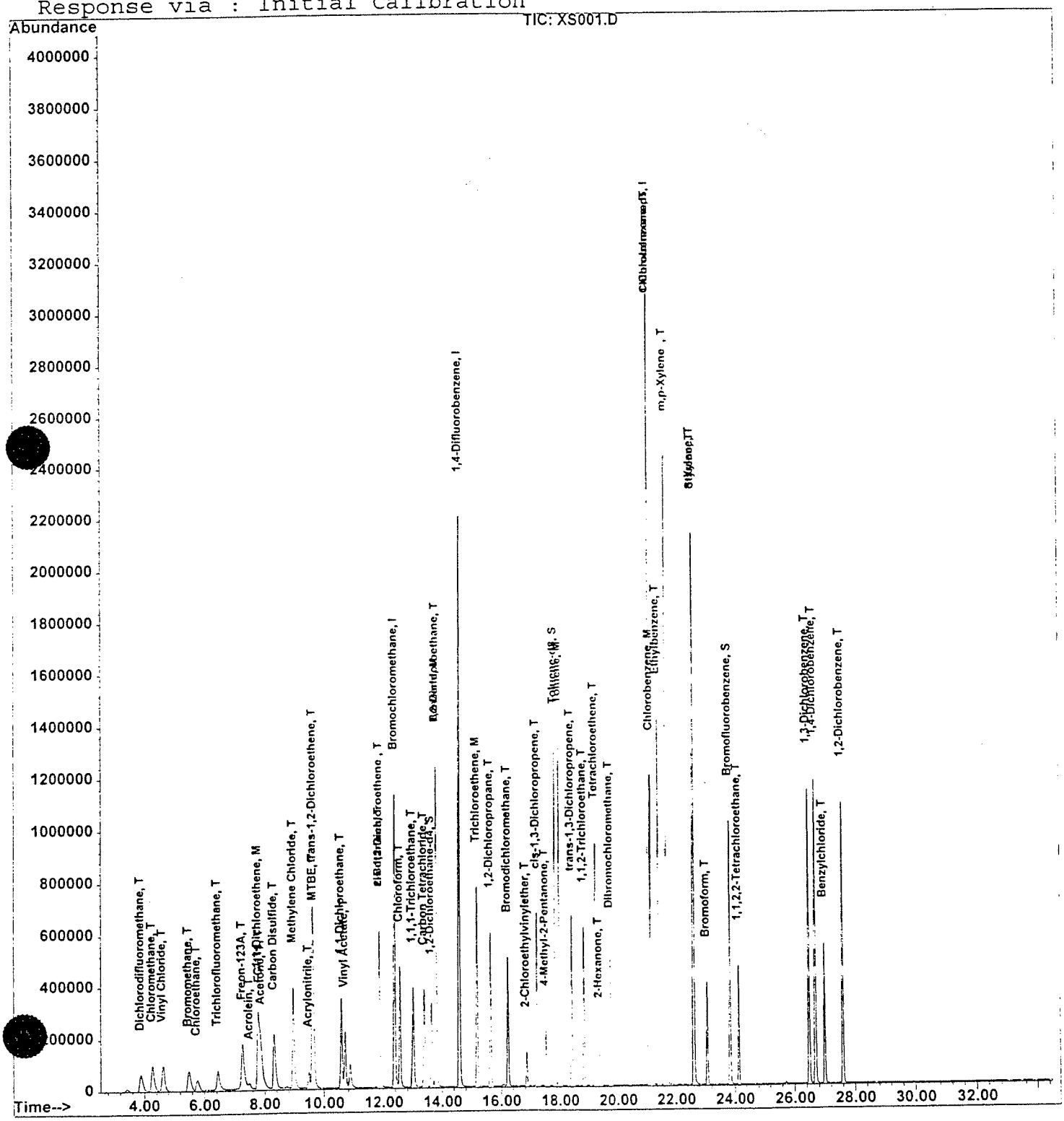
Quantitation Report

Data File : C:\HPCHEM\1\DATA\031600.B\XS001.D
Acq On : 16 Mar 2000 12:48
Sample : VSTD020
Misc : VSTD020
MS Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\031600.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:48:58 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS001.D Vial: 6
Acq On : 16 Mar 2000 12:48 Operator: PULLAR
Sample : VSTD020 Inst : MS 3
Misc : VSTD020 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	825165	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	3266974	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2719284	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	379238	11.61	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 23.22%#			
43) Toluene-d8	17.82	98	1387881	19.52	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 39.04%#			
48) Bromofluorobenzene	23.84	95	552852	18.12	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 36.24%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.90	85	335989	17.90	ug/l #	96
3) Chloromethane	4.27	50	435230	23.20	ug/l	99
4) Bromomethane	5.49	94	221037	14.96	ug/l	92
5) Vinyl Chloride	4.63	62	417684	21.35	ug/l	97
6) Chloroethane	5.76	64	169409	19.11	ug/l	90
7) Trichlorofluoromethane	6.44	101	223474	16.40	ug/l	98
8) Freon-123A	7.27	67	368502	18.20	ug/l	94
9) FC-113	7.84	101	313138	17.27	ug/l	91
10) Methylene Chloride	8.95	49	510899	20.91	ug/l	99
11) Acetone	7.90	43	95543	14.07	ug/l	79
12) Carbon Disulfide	8.31	76	933566	19.15	ug/l	100
13) Acrolein	7.51	56	37528	19.81	ug/l	90
14) Acrylonitrile	9.49	53	112914	23.09	ug/l	86
15) MTBE	9.65	73	641621	19.06	ug/l	92
16) 1,1-Dichloroethene	7.78	61	408937	16.58	ug/l	89
17) 1,1-Dichloroethane	10.57	63	670440	18.58	ug/l	99
18) trans-1,2-Dichloroethene	9.62	61	557729	18.30	ug/l	95
19) cis-1,2-Dichloroethene	11.87	61	538999	18.08	ug/l	86
20) Chloroform	12.57	83	642004	15.82	ug/l	98
22) 1,2-Dichloroethane	13.79	62	442230	12.95	ug/l	97
23) 2-Butanone	11.88	43	159925	18.35	ug/l	97
24) Vinyl Acetate	10.69	43	684734	19.41	ug/l	99
26) 1,1,1-Trichloroethane	12.99	97	507524	16.63	ug/l	100
27) Carbon Tetrachloride	13.37	117	474726	16.84	ug/l	99
28) Bromodichloromethane	16.23	83	492616	17.70	ug/l	100
29) 1,2-Dichloropropane	15.64	63	379338	24.45	ug/l	97
30) cis-1,3-Dichloropropene	17.21	75	595701	21.31	ug/l	100
31) Trichloroethene	15.18	130	445886	23.27	ug/l	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS001.D Vial: 6
Acq On : 16 Mar 2000 12:48 Operator: PULLAR
Sample : VSTD020 Inst : MS 3
Misc : VSTD020 Multiplr: 1.00
IS Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

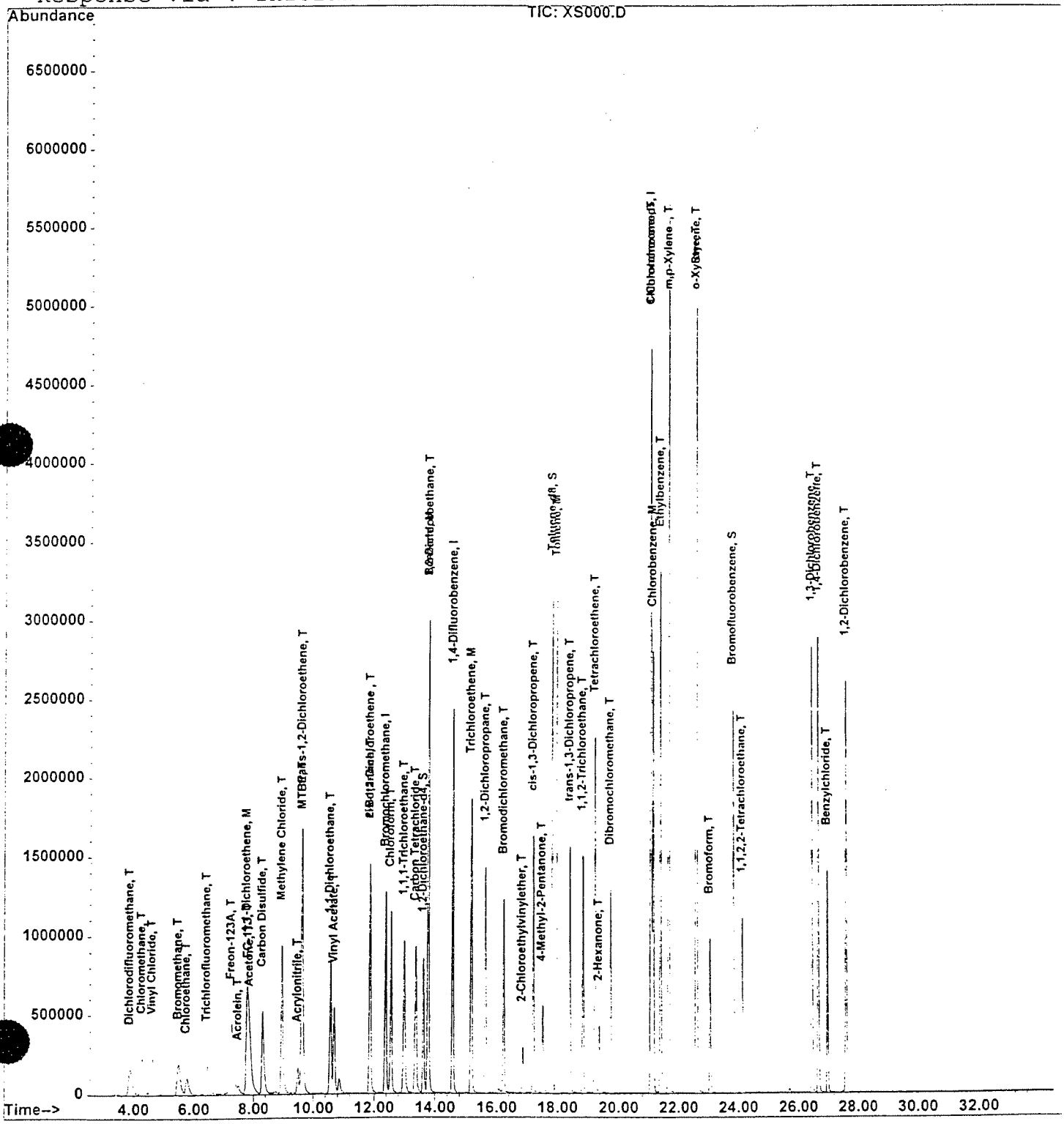
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32) Benzene	13.79	78	1451914	22.35 ug/l		100
33) Dibromochloromethane	19.75	129	441538	20.34 ug/l		96
34) 2-Chloroethylvinylether	16.85	63	86883	35.72 ug/l		95
35) trans-1,3-Dichloropropene	18.41	75	513667	18.91 ug/l		96
36) 1,1,2-Trichloroethane	18.83	97	318891	21.17 ug/l		95
37) Bromoform	23.07	173	302134	23.50 ug/l		98
39) 4-Methyl-2-Pentanone	17.52	58	105031	25.29 ug/l		95
40) 2-Hexanone	19.37	58	100267	23.35 ug/l		96
41) Tetrachloroethene	19.23	166	493783	26.38 ug/l		89
42) 1,1,2,2-Tetrachloroethane	24.14	83	396791	22.74 ug/l		97
44) Toluene	17.98	92	913461	22.49 ug/l		96
45) 1-Chlorohexane	21.08	55	355943	19.52 ug/l	#	82
46) Chlorobenzene	21.16	112	1102875	23.07 ug/l		100
47) Ethylbenzene	21.40	91	1695220	20.94 ug/l		98
49) m,p-Xylene	21.68	91	2512082	40.33 ug/l		91
50) o-Xylene	22.60	91	1293012	20.27 ug/l		92
51) Styrene	22.63	104	1129585	22.89 ug/l		100
52) 1,3-Dichlorobenzene	26.48	146	861654	24.61 ug/l		95
53) 1,4-Dichlorobenzene	26.69	146	865363	24.42 ug/l		95
54) 1,2-Dichlorobenzene	27.60	146	802846	24.95 ug/l		94
55) Benzylchloride	27.00	91	630489	21.37 ug/l	#	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031600.B\XS000.D Vial: 6
Acq On : 16 Mar 2000 12:07 Operator: PULLAR
Sample : VSTD050 Inst : MS 3
Misc : VSTD050 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\031600.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:48:58 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS000.D
Acq On : 16 Mar 2000 12:07
Sample : VSTD050
Misc : VSTD050
MS Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00
Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	934508	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	3624490	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.09	117	2954791	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.62	65	974900	26.35	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 52.70%#			
43) Toluene-d8	17.82	98	3422221	44.30	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 88.60%			
48) Bromofluorobenzene	23.83	95	1322895	39.90	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 79.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.89	85	837924	39.42	ug/l	96
3) Chloromethane	4.29	50	1049563	49.41	ug/l	100
4) Bromomethane	5.50	94	557150	33.29	ug/l	90
5) Vinyl Chloride	4.64	62	1015305	45.83	ug/l	99
6) Chloroethane	5.77	64	417123	41.54	ug/l	94
7) Trichlorofluoromethane	6.43	101	559846	36.27	ug/l	100
8) Freon-123A	7.27	67	890619	38.85	ug/l	95
9) FC-113	7.84	101	755528	36.80	ug/l	92
10) Methylene Chloride	8.95	49	1241749	44.87	ug/l	99
11) Acetone	7.89	43	209591	27.25	ug/l	84
12) Carbon Disulfide	8.30	76	2240827	40.58	ug/l	100
13) Acrolein	7.50	56	92323	43.04	ug/l	96
14) Acrylonitrile	9.50	53	268588	48.50	ug/l	86
15) MTBE	9.65	73	1493268	39.18	ug/l	93
16) 1,1-Dichloroethene	7.77	61	984966	35.26	ug/l	90
17) 1,1-Dichloroethane	10.56	63	1643699	40.22	ug/l	100
18) trans-1,2-Dichloroethene	9.62	61	1326207	38.42	ug/l	94
19) cis-1,2-Dichloroethene	11.87	61	1299907	38.51	ug/l	82
20) Chloroform	12.57	83	1581617	34.41	ug/l	96
22) 1,2-Dichloroethane	13.79	62	1099160	28.42	ug/l	98
23) 2-Butanone	11.87	43	375986	38.09	ug/l	95
24) Vinyl Acetate	10.69	43	1671188	41.83	ug/l	100
26) 1,1,1-Trichloroethane	12.99	97	1263480	37.31	ug/l	99
27) Carbon Tetrachloride	13.37	117	1159745	37.08	ug/l	99
28) Bromodichloromethane	16.23	83	1215490	39.37	ug/l	99
29) 1,2-Dichloropropane	15.64	63	905089	52.58	ug/l	100
30) cis-1,3-Dichloropropene	17.20	75	1464775	47.24	ug/l	99
31) Trichloroethene	15.18	130	1093649	51.44	ug/l	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS000.D
Acq On : 16 Mar 2000 12:07
Sample : VSTD050
Misc : VSTD050
MS Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00
Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Benzene	13.79	78	3563533	49.44	ug/l		100
33)	Dibromochloromethane	19.75	129	1108020	46.02	ug/l		97
34)	2-Chloroethylvinylether	16.85	63	191203	70.85	ug/l		93
35)	trans-1,3-Dichloropropene	18.41	75	1268865	42.11	ug/l		96
36)	1,1,2-Trichloroethane	18.83	97	776396	46.47	ug/l		95
37)	Bromoform	23.07	173	746794	52.36	ug/l		99
39)	4-Methyl-2-Pentanone	17.51	58	259842	57.57	ug/l	#	88
40)	2-Hexanone	19.37	58	258956	55.50	ug/l		89
41)	Tetrachloroethene	19.23	166	1190299	58.52	ug/l		90
42)	1,1,2,2-Tetrachloroethane	24.14	83	961384	50.71	ug/l		96
44)	Toluene	17.98	92	2205182	49.96	ug/l		95
45)	1-Chlorohexane	21.08	55	821188	41.44	ug/l	#	79
46)	Chlorobenzene	21.16	112	2646665	50.94	ug/l		99
47)	Ethylbenzene	21.41	91	4064935	46.20	ug/l		97
49)	m,p-Xylene	21.68	91	5882978	86.91	ug/l		93
50)	o-Xylene	22.60	91	3065033	44.23	ug/l		92
51)	Styrene	22.63	104	2678015	49.94	ug/l		100
52)	1,3-Dichlorobenzene	26.48	146	2112249	55.52	ug/l		95
53)	1,4-Dichlorobenzene	26.69	146	2105066	54.67	ug/l		95
54)	1,2-Dichlorobenzene	27.60	146	1954484	55.89	ug/l		94
55)	Benzylchloride	27.00	91	1634616	50.99	ug/l	#	91

(#) = qualifier out of range (m) = manual integration

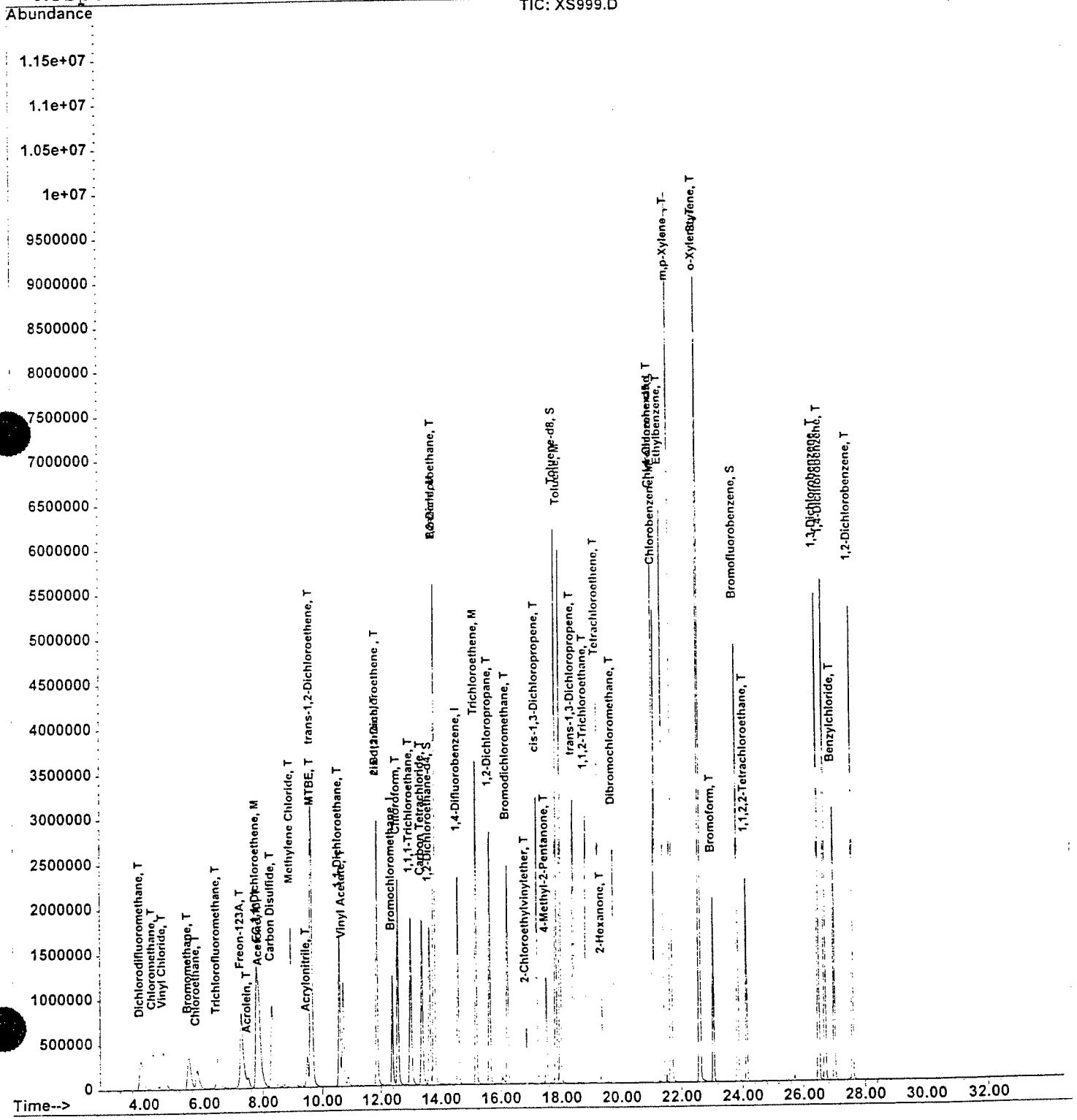
Quantitation Report

Data File : C:\HPCHEM\1\DATA\031600.B\XS999.D
Acq On : 16 Mar 2000 11:26
Sample : VSTD100
Misc : VSTD100
MS Integration Params: rteint.p
Quant Time: Mar 16 13:46 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\031600.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:48:58 2000
Response via : Initial Calibration



000100

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS999.D
Acq On : 16 Mar 2000 11:26
Sample : VSTD100
Misc : VSTD100
MS Integration Params: rteint.p
Quant Time: Mar 16 13:46 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	902278	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	3470420	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.09	117	2694221	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.62	65	2050401	57.40	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 114.80%#			
43) Toluene-d8	17.82	98	6857051	97.35	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 194.70%#			
48) Bromofluorobenzene	23.83	95	2764217	91.44	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 182.88%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.88	85	1579604	76.96	ug/l #	96
3) Chloromethane	4.30	50	1855909	90.49	ug/l	99
4) Bromomethane	5.51	94	1019641	63.10	ug/l	90
5) Vinyl Chloride	4.66	62	1895901	88.63	ug/l	98
6) Chloroethane	5.77	64	812706	83.83	ug/l	95
7) Trichlorofluoromethane	6.44	101	1118550	75.06	ug/l	94
8) Freon-123A	7.27	67	1799817	81.31	ug/l	95
9) FC-113	7.85	101	1509063	76.13	ug/l	92
10) Methylene Chloride	8.95	49	2521154	94.36	ug/l	99
11) Acetone	7.89	43	440838	59.36	ug/l	87
12) Carbon Disulfide	8.30	76	4474423	83.92	ug/l	100
13) Acrolein	7.50	56	191682	92.55	ug/l	100
14) Acrylonitrile	9.50	53	579865	108.45	ug/l	90
15) MTBE	9.65	73	3202925	87.03	ug/l	92
16) 1,1-Dichloroethene	7.77	61	1985897	73.63	ug/l	89
17) 1,1-Dichloroethane	10.56	63	3324759	84.26	ug/l	98
18) trans-1,2-Dichloroethene	9.62	61	2681195	80.45	ug/l	96
19) cis-1,2-Dichloroethene	11.87	61	2628847	80.66	ug/l	84
20) Chloroform	12.56	83	3186979	71.80	ug/l	98
22) 1,2-Dichloroethane	13.79	62	2175821	58.27	ug/l	99
23) 2-Butanone	11.88	43	787505	82.64	ug/l	97
24) Vinyl Acetate	10.69	43	3658629	94.84	ug/l	98
26) 1,1,1-Trichloroethane	12.99	97	2565648	79.13	ug/l	100
27) Carbon Tetrachloride	13.37	117	2380013	79.48	ug/l	98
28) Bromodichloromethane	16.23	83	2471964	83.63	ug/l	99
29) 1,2-Dichloropropane	15.64	63	1841839	111.74	ug/l	100
30) cis-1,3-Dichloropropene	17.21	75	2948643	99.32	ug/l	100
31) Trichloroethene	15.18	130	2178436	107.02	ug/l	93

(#) = qualifier out of range (m) = manual integration

000101

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS999.D
Acq On : 16 Mar 2000 11:26
Sample : VSTD100
Misc : VSTD100
MS Integration Params: rteint.p
Quant Time: Mar 16 13:46 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32) Benzene	13.78	78	6917541	100.23	ug/l		100
33) Dibromochloromethane	19.75	129	2250458	97.61	ug/l		97
34) 2-Chloroethylvinylether	16.85	63	410869	159.01	ug/l		96
35) trans-1,3-Dichloropropene	18.41	75	2594029	89.90	ug/l		97
36) 1,1,2-Trichloroethane	18.83	97	1587733	99.24	ug/l		95
37) Bromoform	23.07	173	1581751	115.82	ug/l		100
39) 4-Methyl-2-Pentanone	17.51	58	560693	136.25	ug/l	#	85
40) 2-Hexanone	19.37	58	570177	134.02	ug/l		89
41) Tetrachloroethene	19.23	166	2308625	124.47	ug/l		90
42) 1,1,2,2-Tetrachloroethane	24.14	83	2026248	117.21	ug/l		97
44) Toluene	17.98	92	4291751	106.63	ug/l		95
45) 1-Chlorohexane	21.08	55	1592364	88.14	ug/l	#	82
46) Chlorobenzene	21.16	112	5140294	108.50	ug/l		99
47) Ethylbenzene	21.41	91	7852034	97.88	ug/l		97
49) m,p-Xylene	21.68	91	10850533	175.81	ug/l		94
50) o-Xylene	22.60	91	5724585	90.60	ug/l		93
51) Styrene	22.63	104	4953813	101.31	ug/l		100
52) 1,3-Dichlorobenzene	26.48	146	4202084	121.14	ug/l		96
53) 1,4-Dichlorobenzene	26.69	146	4159420	118.47	ug/l		96
54) 1,2-Dichlorobenzene	27.60	146	3954864	124.03	ug/l		95
55) Benzylchloride	27.00	91	3566041	121.99	ug/l		92

(#) = qualifier out of range (m) = manual integration

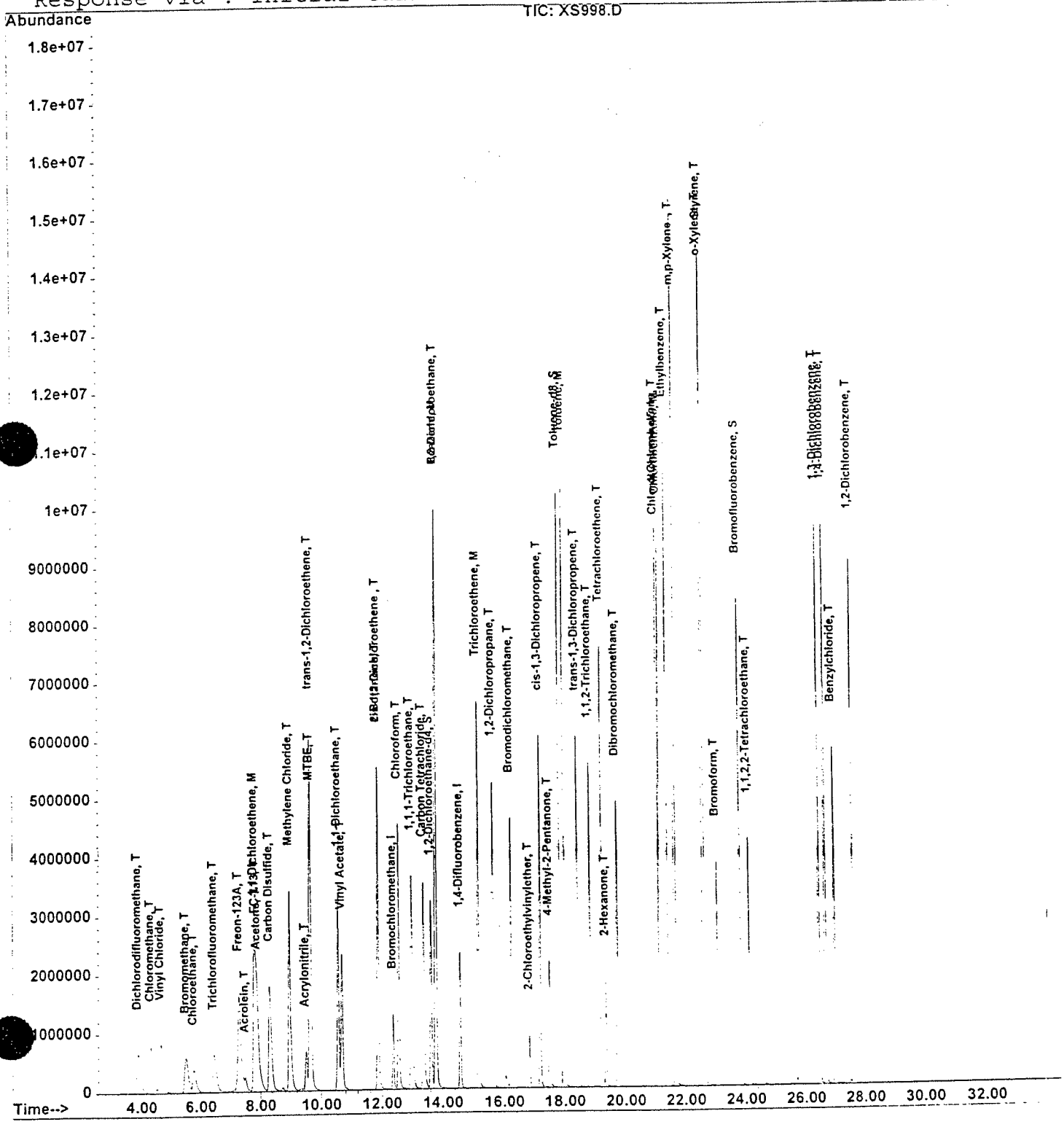
Quantitation Report

Data File : C:\HPCHEM\1\DATA\031600.B\XS998.D
Acq On : 16 Mar 2000 10:39
Sample : VSTD200
Misc : VSTD200
MS Integration Params: rteint.p
Quant Time: Mar 16 13:46 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\031600.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:48:58 2000
Response via : Initial Calibration



000103

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS998.D
Acq On : 16 Mar 2000 10:39
Sample : VSTD200
Misc : VSTD200
MS Integration Params: rteint.p
Quant Time: Mar 16 13:46 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.38	49	924797	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	3530538	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2531223	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	3851469	105.19	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 210.38%#			
43) Toluene-d8	17.83	98	12092701	182.73	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 365.46%#			
48) Bromofluorobenzene	23.84	95	4944059	174.08	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 348.16%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.88	85	3370535	160.22	ug/l	94
3) Chloromethane	4.32	50	3782490	179.93	ug/l	99
4) Bromomethane	5.51	94	1801492	108.76	ug/l	90
5) Vinyl Chloride	4.66	62	3847431	175.48	ug/l	98
6) Chloroethane	5.77	64	1539644	154.95	ug/l	97
7) Trichlorofluoromethane	6.44	101	2372875	155.36	ug/l	98
8) Freon-123A	7.27	67	3521299	155.20	ug/l	95
9) FC-113	7.84	101	2997762	147.54	ug/l	93
10) Methylene Chloride	8.96	49	4983302	181.98	ug/l	98
11) Acetone	7.89	43	803035	105.50	ug/l	84
12) Carbon Disulfide	8.31	76	9047620	165.57	ug/l	100
13) Acrolein	7.50	56	376727	177.47	ug/l	98
14) Acrylonitrile	9.50	53	1089447	198.80	ug/l	90
15) MTBE	9.66	73	6065747	160.81	ug/l	93
16) 1,1-Dichloroethene	7.78	61	3935739	142.36	ug/l	89
17) 1,1-Dichloroethane	10.57	63	6513401	161.05	ug/l	100
18) trans-1,2-Dichloroethene	9.61	61	5087340	148.93	ug/l	96
19) cis-1,2-Dichloroethene	11.86	61	5084371	152.20	ug/l	86
20) Chloroform	12.56	83	6254109	137.48	ug/l	97
22) 1,2-Dichloroethane	13.80	62	4042639	105.63	ug/l	99
23) 2-Butanone	11.87	43	1391964	142.51	ug/l	97
24) Vinyl Acetate	10.69	43	7164762	181.21	ug/l	98
26) 1,1,1-Trichloroethane	12.99	97	5063359	153.51	ug/l	100
27) Carbon Tetrachloride	13.37	117	4677890	153.55	ug/l	98
28) Bromodichloromethane	16.23	83	4779204	158.93	ug/l	100
29) 1,2-Dichloropropane	15.64	63	3475038	207.24	ug/l	99
30) cis-1,3-Dichloropropene	17.21	75	5651812	187.12	ug/l	100
31) Trichloroethene	15.18	130	4126916	199.29	ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS998.D
Acq On : 16 Mar 2000 10:39
Sample : VSTD200
Misc : VSTD200
MS Integration Params: rteint.p
Quant Time: Mar 16 13:46 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

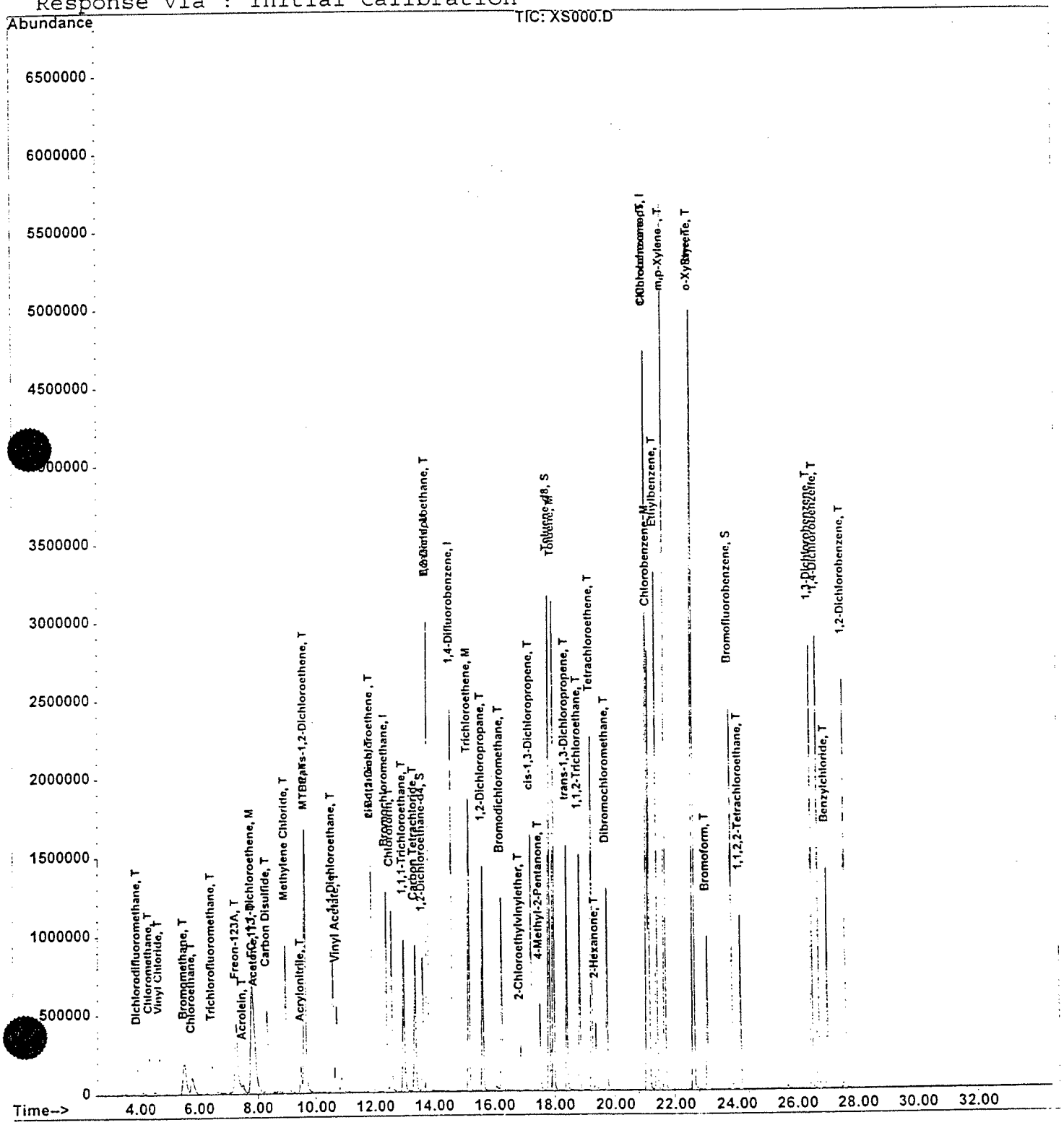
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32) Benzene	13.79	78	12504371	178.09	ug/l		100
33) Dibromochloromethane	19.75	129	4351675	185.54	ug/l		98
34) 2-Chloroethylvinylether	16.86	63	607710	231.18	ug/l		95
35) trans-1,3-Dichloropropene	18.42	75	5009760	170.67	ug/l		98
36) 1,1,2-Trichloroethane	18.83	97	3018375	185.45	ug/l		96
37) Bromoform	23.07	173	3025107	217.74	ug/l		99
39) 4-Methyl-2-Pentanone	17.51	58	1046945	270.79	ug/l	#	86
40) 2-Hexanone	19.37	58	1071716	268.12	ug/l	#	88
41) Tetrachloroethene	19.23	166	4216829	241.99	ug/l		92
42) 1,1,2,2-Tetrachloroethane	24.13	83	3779850	232.73	ug/l		96
44) Toluene	17.98	92	7815602	206.68	ug/l		94
45) 1-Chlorohexane	21.08	55	2926398	172.41	ug/l	#	82
46) Chlorobenzene	21.16	112	9428349	211.83	ug/l		99
47) Ethylbenzene	21.41	91	14188256	188.26	ug/l		97
49) m,p-Xylene	21.68	91	18159742	313.18	ug/l		97
50) o-Xylene	22.61	91	9934822	167.35	ug/l		95
51) Styrene	22.64	104	8273097	180.09	ug/l		100
52) 1,3-Dichlorobenzene	26.48	146	7577267	232.51	ug/l		96
53) 1,4-Dichlorobenzene	26.69	146	7533099	228.38	ug/l		97
54) 1,2-Dichlorobenzene	27.61	146	7201382	240.38	ug/l		95
55) Benzylchloride	27.00	91	6898000	251.16	ug/l		92

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\031600.B\XS000.D
Acq On : 16 Mar 2000 12:07
Sample : VSTD050
Misc : VSTD050
MS Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00
Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\031600.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 14:48:58 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031600.B\XS000.D
Acq On : 16 Mar 2000 12:07
Sample : VSTD050
[redacted]sc : VSTD050
Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	934508	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	3624490	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.09	117	2954791	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.62	65	974900	26.35	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 52.70%#			
43) Toluene-d8	17.82	98	3422221	44.30	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 88.60%			
48) Bromofluorobenzene	23.83	95	1322895	39.90	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 79.80%#			
Target Compounds						Qvalue
[redacted]) Dichlorodifluoromethane	3.89	85	837924	39.42	ug/l	96
3) Chloromethane	4.29	50	1049563	49.41	ug/l	100
4) Bromomethane	5.50	94	557150	33.29	ug/l	90
5) Vinyl Chloride	4.64	62	1015305	45.83	ug/l	99
6) Chloroethane	5.77	64	417123	41.54	ug/l	94
7) Trichlorofluoromethane	6.43	101	559846	36.27	ug/l	100
8) Freon-123A	7.27	67	890619	38.85	ug/l	95
9) FC-113	7.84	101	755528	36.80	ug/l	92
10) Methylene Chloride	8.95	49	1241749	44.87	ug/l	99
11) Acetone	7.89	43	209591	27.25	ug/l	84
12) Carbon Disulfide	8.30	76	2240827	40.58	ug/l	100
13) Acrolein	7.50	56	92323	43.04	ug/l	96
14) Acrylonitrile	9.50	53	268588	48.50	ug/l	86
15) MTBE	9.65	73	1493268	39.18	ug/l	93
16) 1,1-Dichloroethene	7.77	61	984966	35.26	ug/l	90
17) 1,1-Dichloroethane	10.56	63	1643699	40.22	ug/l	100
18) trans-1,2-Dichloroethene	9.62	61	1326207	38.42	ug/l	94
19) cis-1,2-Dichloroethene	11.87	61	1299907	38.51	ug/l	82
20) Chloroform	12.57	83	1581617	34.41	ug/l	96
22) 1,2-Dichloroethane	13.79	62	1099160	28.42	ug/l	98
23) 2-Butanone	11.87	43	375986	38.09	ug/l	95
24) Vinyl Acetate	10.69	43	1671188	41.83	ug/l	100
26) 1,1,1-Trichloroethane	12.99	97	1263480	37.31	ug/l	99
27) Carbon Tetrachloride	13.37	117	1159745	37.08	ug/l	99
[redacted]) Bromodichloromethane	16.23	83	1215490	39.37	ug/l	99
[redacted]) 1,2-Dichloropropane	15.64	63	905089	52.58	ug/l	100
30) cis-1,3-Dichloropropene	17.20	75	1464775	47.24	ug/l	99
31) Trichloroethene	15.18	130	1093649	51.44	ug/l	93

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\031600.B\XS000.D
Acq On : 16 Mar 2000 12:07
Sample : VSTD050
Misc : VSTD050
Integration Params: rteint.p
Quant Time: Mar 16 13:45 2000

Vial: 6
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00
Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 02 15:12:53 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32) Benzene	13.79	78	3563533	49.44	ug/l		100
33) Dibromochloromethane	19.75	129	1108020	46.02	ug/l		97
34) 2-Chloroethylvinylether	16.85	63	191203	70.85	ug/l		93
35) trans-1,3-Dichloropropene	18.41	75	1268865	42.11	ug/l		96
36) 1,1,2-Trichloroethane	18.83	97	776396	46.47	ug/l		95
37) Bromoform	23.07	173	746794	52.36	ug/l		99
39) 4-Methyl-2-Pentanone	17.51	58	259842	57.57	ug/l	#	88
40) 2-Hexanone	19.37	58	258956	55.50	ug/l		89
41) Tetrachloroethene	19.23	166	1190299	58.52	ug/l		90
42) 1,1,2,2-Tetrachloroethane	24.14	83	961384	50.71	ug/l		96
44) Toluene	17.98	92	2205182	49.96	ug/l		95
45) 1-Chlorohexane	21.08	55	821188	41.44	ug/l	#	79
46) Chlorobenzene	21.16	112	2646665	50.94	ug/l		99
47) Ethylbenzene	21.41	91	4064935	46.20	ug/l		97
48) m,p-Xylene	21.68	91	5882978	86.91	ug/l		93
50) o-Xylene	22.60	91	3065033	44.23	ug/l		92
51) Styrene	22.63	104	2678015	49.94	ug/l		100
52) 1,3-Dichlorobenzene	26.48	146	2112249	55.52	ug/l		95
53) 1,4-Dichlorobenzene	26.69	146	2105066	54.67	ug/l		95
54) 1,2-Dichlorobenzene	27.60	146	1954484	55.89	ug/l		94
55) Benzylchloride	27.00	91	1634616	50.99	ug/l	#	91

(#) = qualifier out of range (m) = manual integration

Continuing Calibration Report MS 3

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Calibration

Continuing Calibration File: XS073.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1	I	Bromochloromethane	1.000	1.000	0.0	81
2	T	Dichlorodifluoromethane	0.925	0.881	4.8	80
3	T	Chloromethane	1.145	1.087	5.1	79
4	T	Bromomethane	0.586	0.718	-22.5	98
5	T	Vinyl Chloride	1.120	1.145	-2.2	86
6	T	Chloroethane	0.456	0.553	-21.4	101
7	T	Trichlorofluoromethane	0.617	0.762	-23.5	104
8	T	Freon-123A	1.008	1.247	-23.8	107
9	T	FC-113	0.857	1.021	-19.2	103
10	T	Methylene Chloride	1.417	1.624	-14.6	100
11	T	Acetone	0.258	0.292	-12.9	106
12	T	Carbon Disulfide	2.552	2.899	-13.6	99
13	T	Acrolein	0.105	0.100	5.5	82
14	T	Acrylonitrile	0.313	0.326	-4.1	92
15	T	MTBE	1.762	1.917	-8.8	98
16	M	1,1-Dichloroethene	1.118	1.316	-17.7	102
17	T	1,1-Dichloroethane	1.859	2.017	-8.5	93
18	T	trans-1,2-Dichloroethene	1.508	1.699	-12.7	98
19	T	cis-1,2-Dichloroethene	1.473	1.615	-9.6	95
20	T	Chloroform	1.783	2.093	-17.4	101
21	S	1,2-Dichloroethane-d4	1.119	1.210	-8.1	95
22	T	1,2-Dichloroethane	1.218	1.497	-22.9	104
23	T	2-Butanone	0.438	0.431	1.6	87
24	T	Vinyl Acetate	1.951	1.795	8.0	82
25	I	1,4-Difluorobenzene	1.000	1.000	0.0	83
26	T	1,1,1-Trichloroethane	0.366	0.416	-13.7	100
27	T	Carbon Tetrachloride	0.337	0.388	-15.0	101
28	T	Bromodichloromethane	0.350	0.403	-15.2	100
29	T	1,2-Dichloropropane	0.264	0.273	-3.4	91
30	T	cis-1,3-Dichloropropene	0.420	0.445	-6.2	92
31	M	Trichloroethene	0.314	0.331	-5.5	92
32	M	Benzene	1.006	1.087	-8.1	92
33	T	Dibromochloromethane	0.318	0.359	-13.2	98
34	T	2-Chloroethylvinylether	0.057	0.067	-17.7	106
35	T	trans-1,3-Dichloropropene	0.367	0.407	-11.1	97
36	T	1,1,2-Trichloroethane	0.227	0.261	-14.8	102
37	T	Bromoform	0.217	0.246	-13.2	100
38	I	Chlorobenzene-d5	1.000	1.000	0.0	92
39	T	4-Methyl-2-Pentanone	0.097	0.082	15.2	86
40	T	2-Hexanone	0.095	0.078	18.2	81
41	T	Tetrachloroethene	0.425	0.415	2.3	94

(#) = Out of Range

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Calibration

Continuing Calibration File: XS073.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

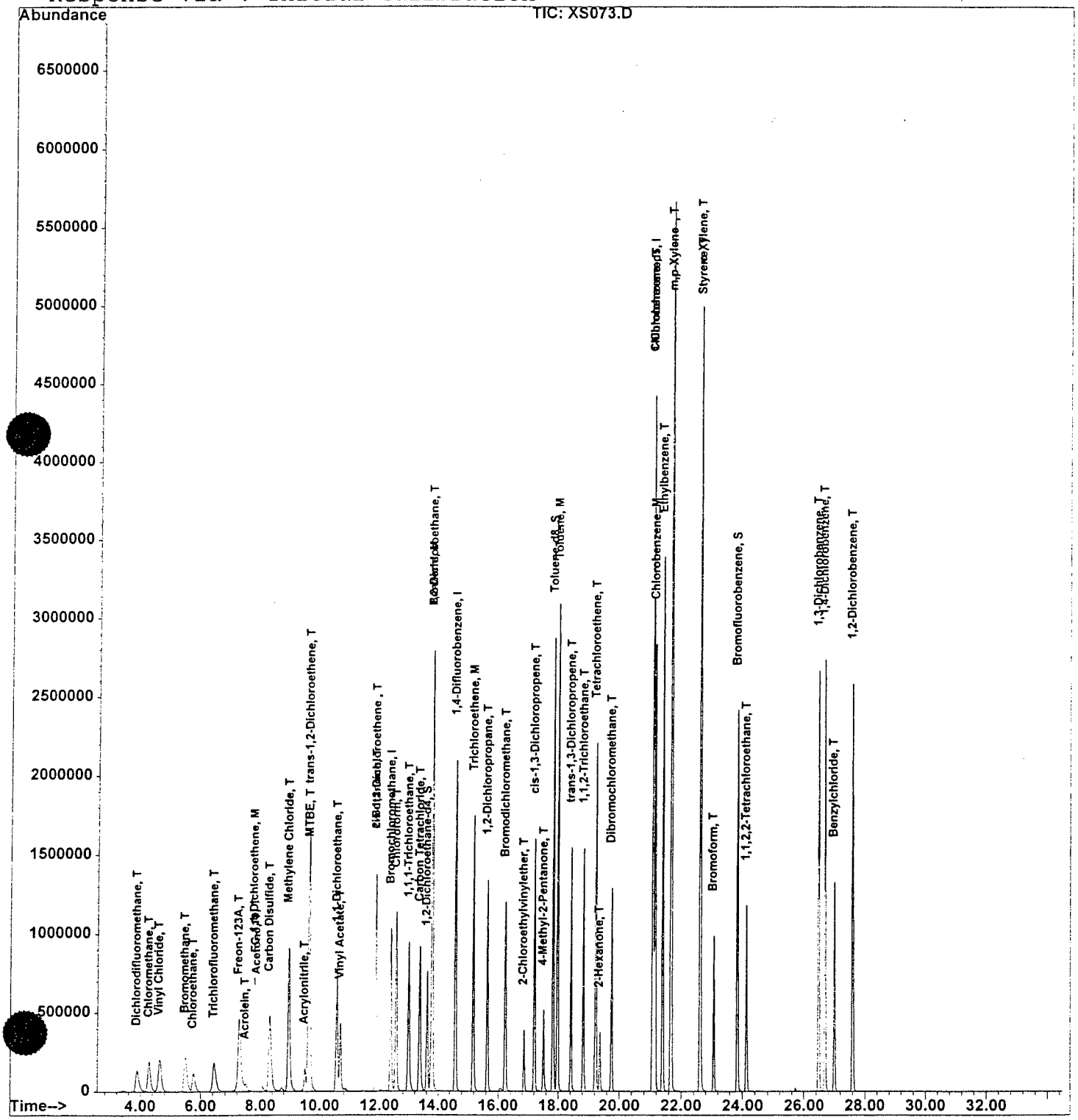
		Compound	AvgRF	CCRF	%Dev	Area%
42	T	1,1,2,2-Tetrachloroethane	0.357	0.363	-1.5	102
43	S	Toluene-d8	1.248	1.161	7.0	92
44	M	Toluene	0.788	0.787	0.1	97
45	T	1-Chlorohexane	0.303	0.289	4.6	95
46	M	Chlorobenzene	0.948	0.958	-1.1	98
47	T	Ethylbenzene	1.449	1.465	-1.2	98
48	S	Bromofluorobenzene	0.497	0.461	7.3	94
49	T	m,p-Xylene	1.031	1.093	-6.0	100
50	T	o-Xylene	1.077	1.113	-3.4	98
51	T	Styrene	0.928	0.957	-3.1	97
52	T	1,3-Dichlorobenzene	0.756	0.726	4.0	93
53	T	1,4-Dichlorobenzene	0.753	0.742	1.4	95
54	T	1,2-Dichlorobenzene	0.707	0.700	1.1	97
55	T	Benzylchloride	0.598	0.560	6.4	93

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\XS073.D Vial: 2
Acq On : 17 May 2000 9:51 Operator: PULLAR
Sample : VSTD050 Inst : MS 3
Misc : VSTD050 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 10:30 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\XS073.D Vial: 2
Acq On : 17 May 2000 9:51 Operator: PULLAR
Sample : VSTD050 Inst : MS 3
Misc : VSTD050 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 10:30 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	12.39	49	761423	50.00	ug/l		0.00
25) 1,4-Difluorobenzene	14.59	114	3025897	50.00	ug/l		0.00
38) Chlorobenzene-d5	21.09	117	2704920	50.00	ug/l		0.00
System Monitoring Compounds							
21) 1,2-Dichloroethane-d4	13.62	65	921499	54.07	ug/l		0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 108.14%				
43) Toluene-d8	17.82	98	3140343	46.51	ug/l		0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 93.02%				
48) Bromofluorobenzene	23.84	95	1247182	46.36	ug/l		0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.89	85	670941	47.61	ug/l		93
3) Chloromethane	4.29	50	827819	47.47	ug/l		99
4) Bromomethane	5.49	94	546654m	61.26	ug/l		
5) Vinyl Chloride	4.64	62	871530	51.08	ug/l		99
6) Chloroethane	5.77	64	421285	60.68	ug/l		95
7) Trichlorofluoromethane	6.45	101	580539m	61.76	ug/l		
8) Freon-123A	7.27	67	949867	61.90	ug/l	#	92
9) FC-113	7.85	101	777756m	59.59	ug/l		
10) Methylene Chloride	8.95	49	1236803	57.32	ug/l		98
11) Acetone	7.89	43	222017	56.44	ug/l		84
12) Carbon Disulfide	8.30	76	2207355	56.79	ug/l		100
13) Acrolein	7.50	56	75908	47.27	ug/l		98
14) Acrylonitrile	9.50	53	248357	52.07	ug/l		90
15) MTBE	9.65	73	1459832	54.39	ug/l		93
16) 1,1-Dichloroethene	7.78	61	1002264	58.87	ug/l		86
17) 1,1-Dichloroethane	10.57	63	1535675	54.24	ug/l		100
18) trans-1,2-Dichloroethene	9.62	61	1293660	56.33	ug/l		95
19) cis-1,2-Dichloroethene	11.87	61	1229445	54.80	ug/l		83
20) Chloroform	12.57	83	1593958	58.69	ug/l		97
22) 1,2-Dichloroethane	13.79	62	1139952	61.44	ug/l		100
23) 2-Butanone	11.87	43	328286	49.19	ug/l		98
24) Vinyl Acetate	10.69	43	1366531	45.99	ug/l		99
26) 1,1,1-Trichloroethane	13.00	97	1259009	56.84	ug/l		99
27) Carbon Tetrachloride	13.37	117	1174386	57.52	ug/l		99
28) Bromodichloromethane	16.24	83	1219637	57.60	ug/l		100
29) 1,2-Dichloropropane	15.64	63	826478	51.70	ug/l		98
30) cis-1,3-Dichloropropene	17.21	75	1347960	53.09	ug/l		100
31) Trichloroethene	15.18	130	1002392	52.77	ug/l		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\XS073.D Vial: 2
Acq On : 17 May 2000 9:51 Operator: PULLAR
Sample : VSTD050 Inst : MS 3
Misc : VSTD050 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 10:30 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Benzene	13.78	78	3289540	54.04	ug/l		100
33)	Dibromochloromethane	19.75	129	1087576	56.59	ug/l		98
34)	2-Chloroethylvinylether	16.86	63	201929m	58.86	ug/l		
35)	trans-1,3-Dichloropropene	18.41	75	1232589	55.55	ug/l		98
36)	1,1,2-Trichloroethane	18.83	97	788953	57.40	ug/l		95
37)	Bromoform	23.07	173	743392	56.59	ug/l		97
39)	4-Methyl-2-Pentanone	17.52	58	222557	42.42	ug/l	#	83
40)	2-Hexanone	19.37	58	210639	40.89	ug/l		94
41)	Tetrachloroethene	19.23	166	1122952	48.85	ug/l		92
42)	1,1,2,2-Tetrachloroethane	24.14	83	980616	50.73	ug/l		96
44)	Toluene	17.97	92	2129287	49.95	ug/l		96
45)	1-Chlorohexane	21.08	55	781127	47.72	ug/l		84
46)	Chlorobenzene	21.16	112	2592381	50.56	ug/l		99
47)	Ethylbenzene	21.41	91	3963605	50.58	ug/l		99
49)	m,p-Xylene	21.68	91	5911122	106.00	ug/l		95
50)	o-Xylene	22.61	91	3011476	51.70	ug/l		93
51)	Styrene	22.64	104	2589627	51.57	ug/l		100
52)	1,3-Dichlorobenzene	26.49	146	1963303	48.02	ug/l		94
53)	1,4-Dichlorobenzene	26.70	146	2007533	49.29	ug/l		95
54)	1,2-Dichlorobenzene	27.60	146	1892178	49.45	ug/l		94
55)	Benzylchloride	27.00	91	1514335	46.80	ug/l		94

(#) = qualifier out of range (m) = manual integration

Continuing Calibration Report MS 3

Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri May 19 16:17:53 2000
Response via : Continuing Calibration

Continuing Calibration File: XS076.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1	I	Bromochloromethane	1.000	1.000	0.0	88
2	T	Dichlorodifluoromethane	0.925	0.999	-8.0	99
3	T	Chloromethane	1.145	1.081	5.6	85
4	T	Bromomethane	0.586	0.721	-23.0	107
5	T	Vinyl Chloride	1.120	1.096	2.2	89
6	T	Chloroethane	0.456	0.544	-19.3	108
7	T	Trichlorofluoromethane	0.617	0.712	-15.3	105
8	T	Freon-123A	1.008	1.145	-13.6	106
9	T	FC-113	0.857	0.995	-16.1	109
10	T	Methylene Chloride	1.417	1.502	-6.0	100
11	T	Acetone	0.258	0.276	-7.0	109
12	T	Carbon Disulfide	2.552	2.670	-4.6	98
13	T	Acrolein	0.105	0.100	5.3	89
14	T	Acrylonitrile	0.313	0.303	3.2	93
15	T	MTBE	1.762	1.675	5.0	93
16	M	1,1-Dichloroethene	1.118	1.228	-9.8	103
17	T	1,1-Dichloroethane	1.859	1.852	0.4	93
18	T	trans-1,2-Dichloroethene	1.508	1.548	-2.6	96
19	T	cis-1,2-Dichloroethene	1.473	1.471	0.1	94
20	T	Chloroform	1.783	1.902	-6.6	99
21	S	1,2-Dichloroethane-d4	1.119	1.186	-6.0	101
22	T	1,2-Dichloroethane	1.218	1.356	-11.3	102
23	T	2-Butanone	0.438	0.407	7.1	90
24	T	Vinyl Acetate	1.951	1.698	13.0	84
25	I	1,4-Difluorobenzene	1.000	1.000	0.0	87
26	T	1,1,1-Trichloroethane	0.366	0.391	-6.9	98
27	T	Carbon Tetrachloride	0.337	0.369	-9.4	100
28	T	Bromodichloromethane	0.350	0.380	-8.6	99
29	T	1,2-Dichloropropane	0.264	0.259	1.8	90
30	T	cis-1,3-Dichloropropene	0.420	0.413	1.5	89
31	M	Trichloroethene	0.314	0.305	3.0	88
32	M	Benzene	1.006	1.018	-1.2	90
33	T	Dibromochloromethane	0.318	0.337	-6.1	96
34	T	2-Chloroethylvinylether	0.057	0.055	2.2	91
35	T	trans-1,3-Dichloropropene	0.367	0.376	-2.5	93
36	T	1,1,2-Trichloroethane	0.227	0.244	-7.6	99
37	T	Bromoform	0.217	0.230	-5.7	97
38	I	Chlorobenzene-d5	1.000	1.000	0.0	97
39	T	4-Methyl-2-Pentanone	0.097	0.077	21.1	84
40	T	2-Hexanone	0.095	0.075	21.7	83
41	T	Tetrachloroethene	0.425	0.375	11.8	90

(#) = Out of Range

Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri May 19 16:17:53 2000
Response via : Continuing Calibration

Continuing Calibration File: XS076.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

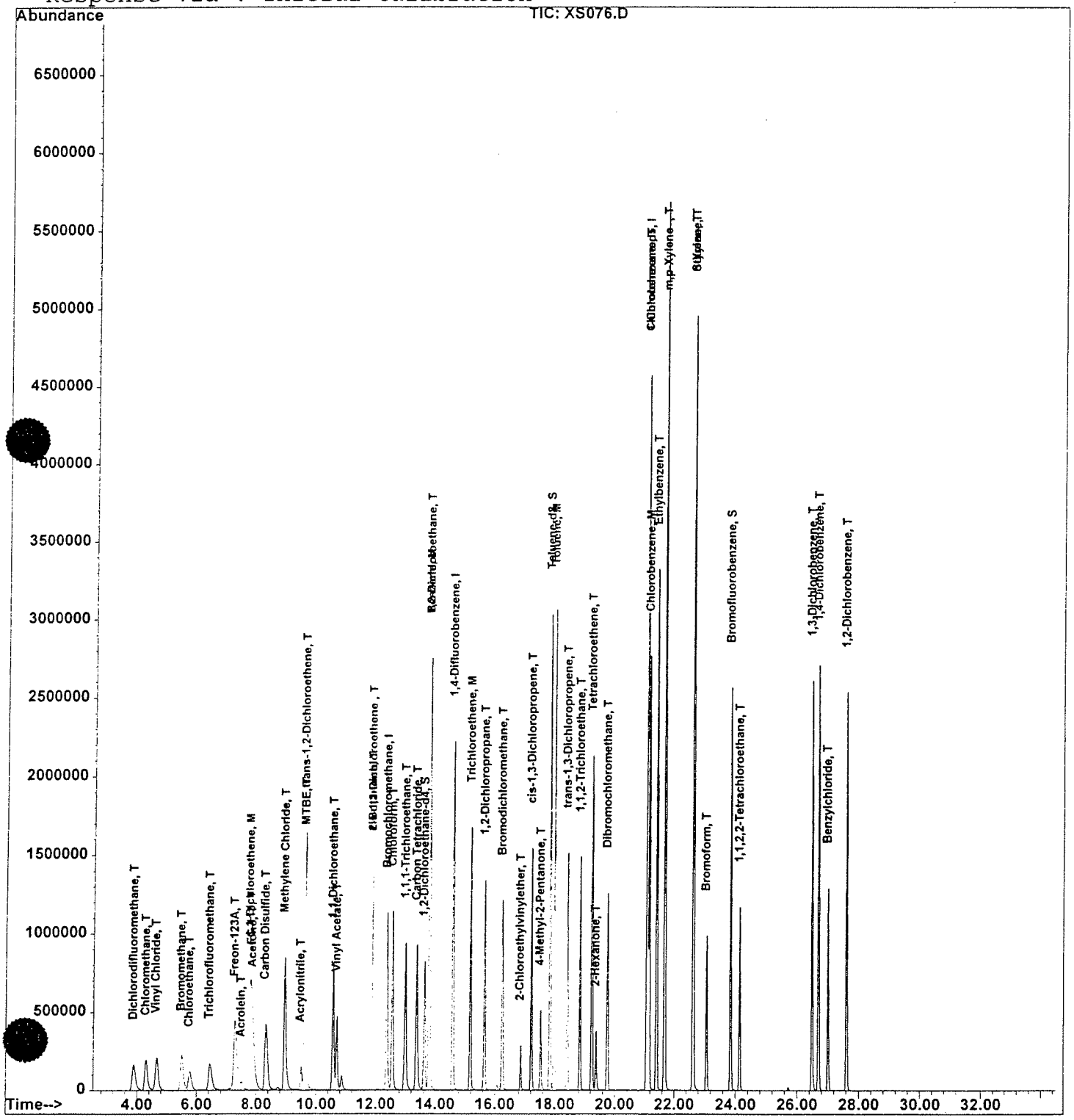
		Compound	AvgRF	CCRF	%Dev	Area%
42	T	1,1,2,2-Tetrachloroethane	0.357	0.341	4.6	102
43	S	Toluene-d8	1.248	1.147	8.1	96
44	M	Toluene	0.788	0.720	8.7	94
45	T	1-Chlorohexane	0.303	0.272	10.2	95
46	M	Chlorobenzene	0.948	0.876	7.6	95
47	T	Ethylbenzene	1.449	1.339	7.5	94
48	S	Bromofluorobenzene	0.497	0.459	7.8	99
49	T	m,p-Xylene	1.031	1.010	2.1	98
50	T	o-Xylene	1.077	1.038	3.6	97
51	T	Styrene	0.928	0.898	3.2	96
52	T	1,3-Dichlorobenzene	0.756	0.665	12.0	90
53	T	1,4-Dichlorobenzene	0.753	0.682	9.4	93
54	T	1,2-Dichlorobenzene	0.707	0.642	9.2	94
55	T	Benzylchloride	0.598	0.521	12.8	91

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\HPCHEM\1\DATA\051900.B\XS076.D Vial: 6
Acq On : 19 May 2000 15:21 Operator: PULLAR
Sample : VSTD050 Inst : MS 3
Misc : VSTD050 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 16:15 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri May 19 16:17:53 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051900.B\XS076.D Vial: 6
Acq On : 19 May 2000 15:21 Operator: PULLAR
Sample : VSTD050 Inst : MS 3
Misc : VSTD050 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 16:15 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	12.39	49	826418	50.00	ug/l		0.00
25) 1,4-Difluorobenzene	14.59	114	3154674	50.00	ug/l		0.00
38) Chlorobenzene-d5	21.10	117	2866455	50.00	ug/l		0.00
System Monitoring Compounds							
21) 1,2-Dichloroethane-d4	13.63	65	980378	53.00	ug/l		0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 106.00%				
43) Toluene-d8	17.83	98	3287599	45.94	ug/l		0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 91.88%				
48) Bromofluorobenzene	23.85	95	1314931	46.12	ug/l		0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.90	85	825753	53.98	ug/l	#	94
3) Chloromethane	4.31	50	893492	47.20	ug/l		99
4) Bromomethane	5.49	94	595649m	61.50	ug/l		
5) Vinyl Chloride	4.65	62	905357	48.89	ug/l		97
6) Chloroethane	5.78	64	449575	59.66	ug/l		98
7) Trichlorofluoromethane	6.44	101	588216	57.65	ug/l		98
8) Freon-123A	7.28	67	946126	56.80	ug/l	#	91
9) FC-113	7.85	101	821962	58.03	ug/l		91
10) Methylene Chloride	8.96	49	1241380	53.01	ug/l		99
11) Acetone	7.89	43	228422	53.51	ug/l		87
12) Carbon Disulfide	8.31	76	2206315	52.30	ug/l		100
13) Acrolein	7.50	56	82495	47.33	ug/l		99
14) Acrylonitrile	9.50	53	250523	48.39	ug/l		88
15) MTBE	9.65	73	1384234	47.52	ug/l		94
16) 1,1-Dichloroethene	7.78	61	1014429	54.89	ug/l		89
17) 1,1-Dichloroethane	10.57	63	1530926	49.82	ug/l		98
18) trans-1,2-Dichloroethene	9.63	61	1278907	51.31	ug/l		94
19) cis-1,2-Dichloroethene	11.87	61	1215638	49.93	ug/l		85
20) Chloroform	12.57	83	1571507	53.32	ug/l		98
22) 1,2-Dichloroethane	13.80	62	1120349	55.64	ug/l		98
23) 2-Butanone	11.88	43	336526	46.46	ug/l		94
24) Vinyl Acetate	10.70	43	1403432	43.51	ug/l		98
26) 1,1,1-Trichloroethane	13.00	97	1234158	53.45	ug/l		99
27) Carbon Tetrachloride	13.38	117	1164013	54.69	ug/l		99
28) Bromodichloromethane	16.24	83	1198614	54.30	ug/l		99
29) 1,2-Dichloropropane	15.65	63	818575	49.11	ug/l		100
30) cis-1,3-Dichloropropene	17.22	75	1303221	49.24	ug/l		99
31) Trichloroethene	15.19	130	960746	48.52	ug/l		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051900.B\XS076.D Vial: 6
Acq On : 19 May 2000 15:21 Operator: PULLAR
Sample : VSTD050 Inst : MS 3
Misc : VSTD050 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 16:15 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Initial Calibration
DataAcq Meth : CLPVOA

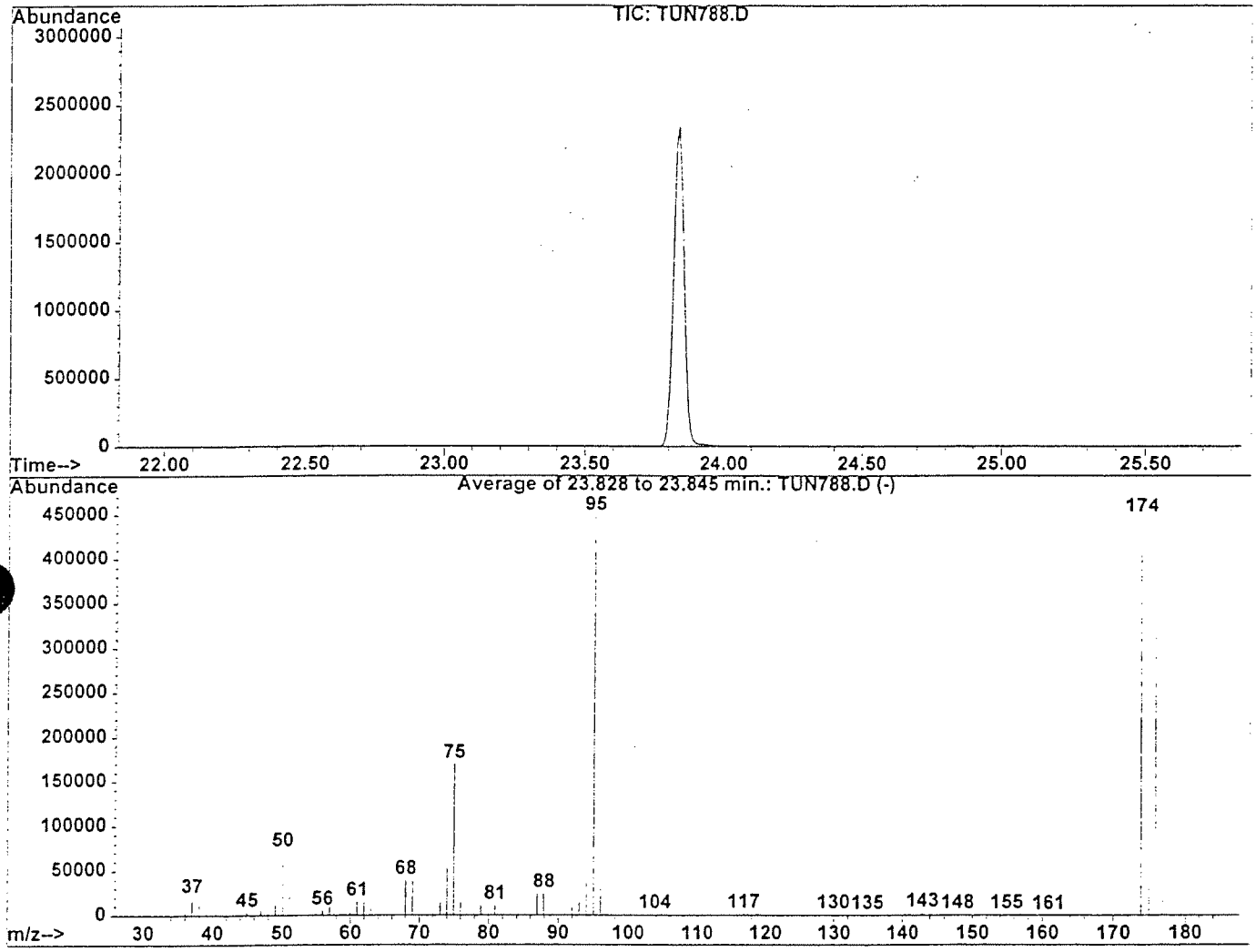
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Benzene	13.79	78	3210564	50.59	ug/l		100
33)	Dibromochloromethane	19.75	129	1063021	53.05	ug/l		98
34)	2-Chloroethylvinylether	16.87	63	174843	48.88	ug/l		97
35)	trans-1,3-Dichloropropene	18.42	75	1185749	51.25	ug/l		98
36)	1,1,2-Trichloroethane	18.84	97	770577	53.78	ug/l		96
37)	Bromoform	23.08	173	724058	52.86	ug/l		97
39)	4-Methyl-2-Pentanone	17.53	58	219321	39.45	ug/l	#	85
40)	2-Hexanone	19.37	58	213766	39.16	ug/l		92
41)	Tetrachloroethene	19.24	166	1074163	44.10	ug/l		91
42)	1,1,2,2-Tetrachloroethane	24.15	83	976835	47.69	ug/l		96
44)	Toluene	17.98	92	2062914	45.67	ug/l		95
45)	1-Chlorohexane	21.09	55	778440	44.88	ug/l		84
46)	Chlorobenzene	21.17	112	2509596	46.19	ug/l		99
47)	Ethylbenzene	21.42	91	3839605	46.23	ug/l		99
49)	m,p-Xylene	21.68	91	5788300	97.95	ug/l		94
50)	o-Xylene	22.62	91	2976137	48.21	ug/l		92
51)	Styrene	22.64	104	2575074	48.39	ug/l		100
52)	1,3-Dichlorobenzene	26.50	146	1907063	44.01	ug/l		94
53)	1,4-Dichlorobenzene	26.71	146	1955192	45.30	ug/l		95
54)	1,2-Dichlorobenzene	27.62	146	1840971	45.40	ug/l		94
55)	Benzylchloride	27.01	91	1494729	43.59	ug/l		93

(#) = qualifier out of range (m) = manual integration

CLPBFB

Data File : C:\HPCHEM\1\DATA\031600.B\TUN788.D
Acq On : 16 Mar 2000 9:46
Sample : BFB
Misc : BFB AT 50 NG
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration

Vial: 1
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00



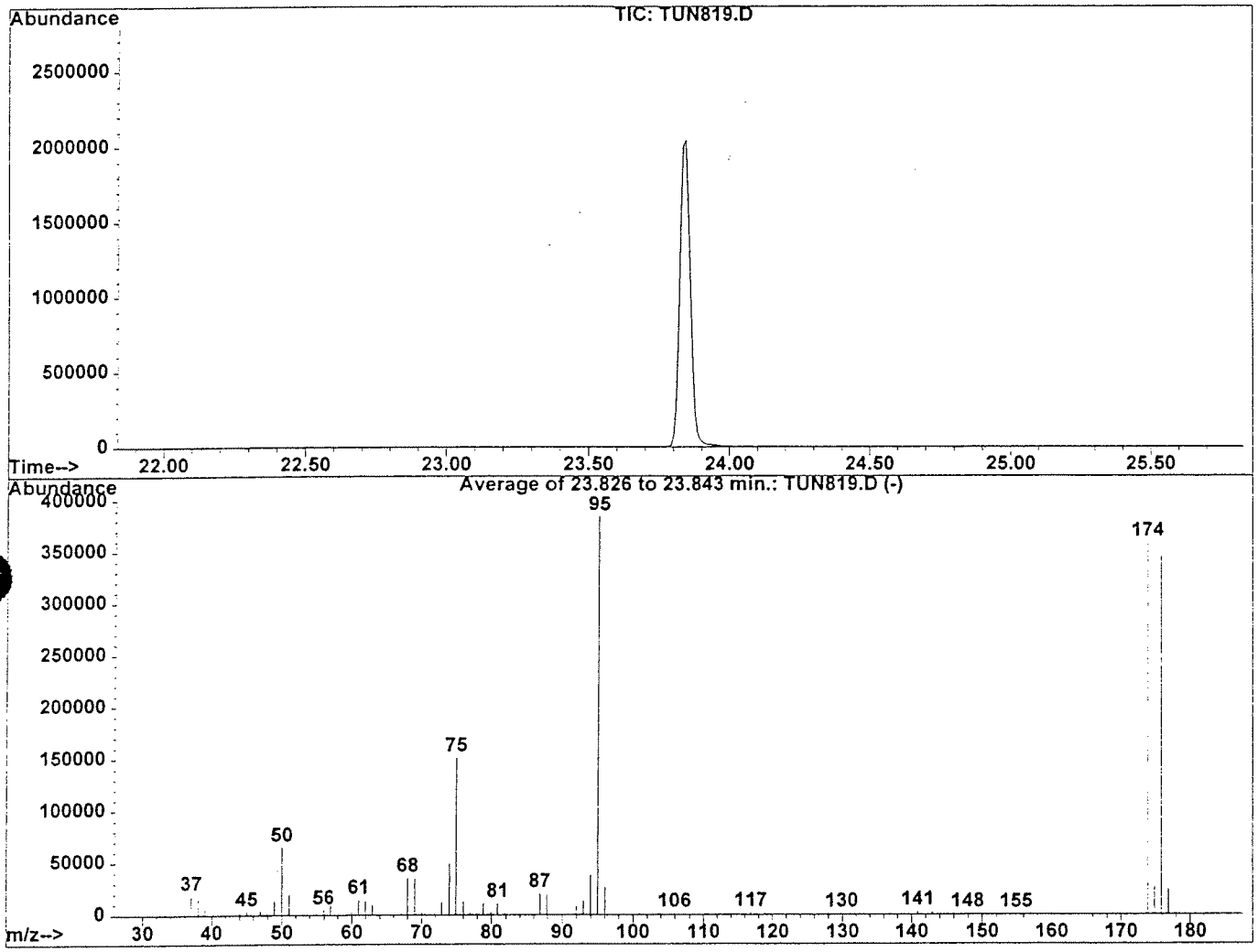
AutoFind: Scans 2540, 2541, 2542; Background Corrected with Scan 2531

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	70888	PASS
75	95	30	60	37.9	170005	PASS
95	95	100	100	100.0	448875	PASS
96	95	5	9	6.6	29784	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	99.6	446976	PASS
175	174	5	9	7.2	32205	PASS
176	174	95	101	97.8	437291	PASS
177	176	5	9	6.4	27896	PASS

TUN788.D CLPVOA.M Fri Mar 17 10:06:09 2000 MS3

CLPBFB

Data File : C:\HPCHEM\1\DATA\051700.B\TUN819.D Vial: 12
Acq On : 17 May 2000 9:09 Operator: PULLAR
Sample : BFB Inst : MS 3
Misc : BFB AT 50 NG Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration



AutoFind: Scans 2541, 2542, 2543; Background Corrected with Scan 2533

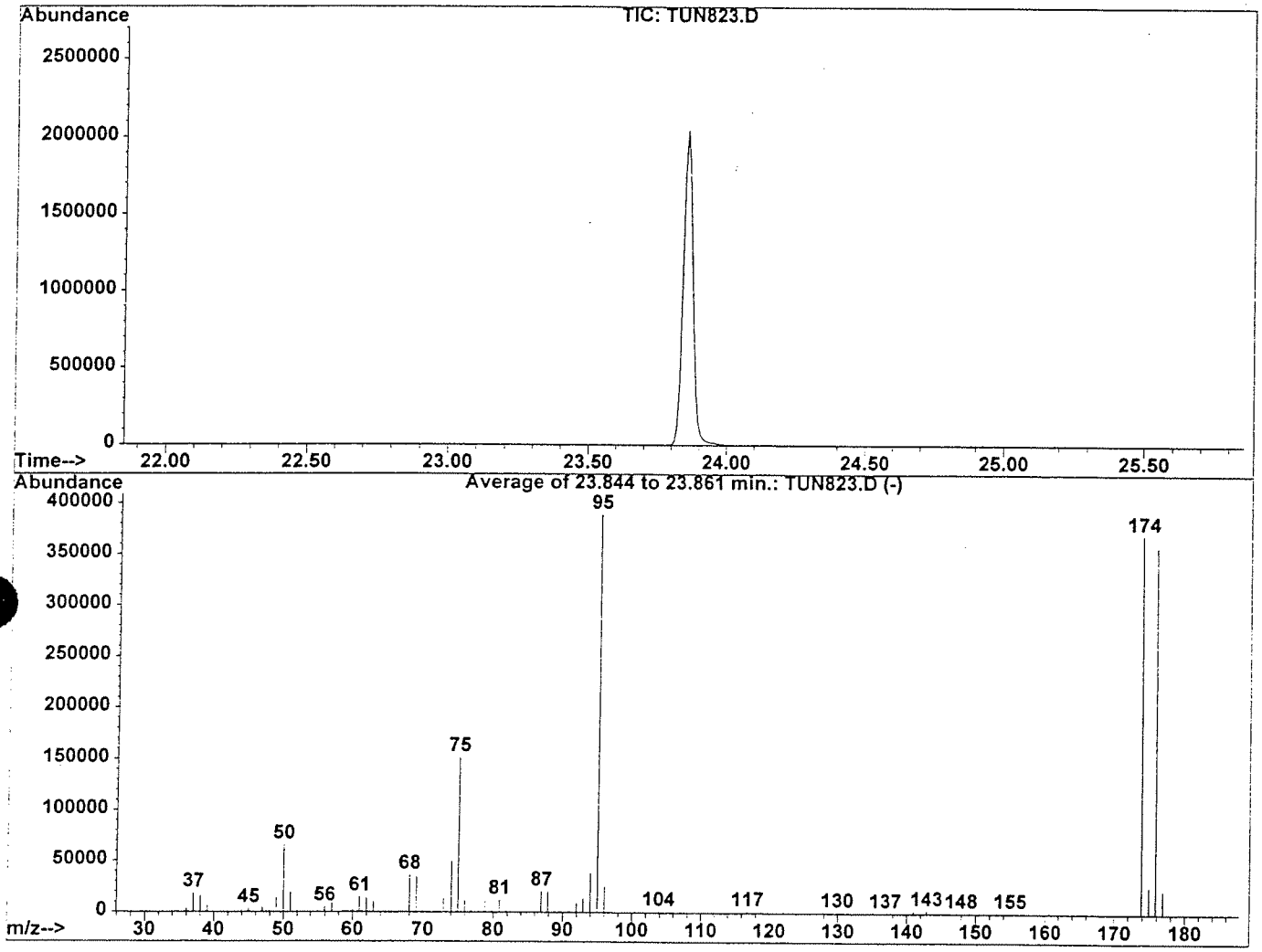
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	65285	PASS
75	95	30	60	39.4	151429	PASS
95	95	100	100	100.0	384491	PASS
96	95	5	9	6.8	26152	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.3	358699	PASS
175	174	5	9	7.3	26088	PASS
176	174	95	101	96.2	344917	PASS
177	176	5	9	7.0	24072	PASS

TUN819.D CLPVOA.M Thu May 18 14:58:06 2000 MS3

CLPBFB

Data File : C:\HPCHEM\1\DATA\051900.B\TUN823.D
Acq On : 19 May 2000 13:10
Sample : BFB
Misc : BFB AT 50 NG
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration

Vial: 7
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00



AutoFind: Scans 2543, 2544, 2545; Background Corrected with Scan 2535

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	65979	PASS
75	95	30	60	38.9	151573	PASS
95	95	100	100	100.0	389355	PASS
96	95	5	9	6.6	25723	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.0	369856	PASS
175	174	5	9	7.1	26333	PASS
176	174	95	101	97.0	358891	PASS
177	176	5	9	6.6	23536	PASS

TUN823.D CLPVOA.M Sat May 20 12:40:38 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK861

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBLK861

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4566

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK861

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBLK861

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4566

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

FORM I VOA 3/90

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK861

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBLK861

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4566

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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10.					
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21.					
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24.					
25.					
26.					
27.					
28.					
29.					
30.					

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000124

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

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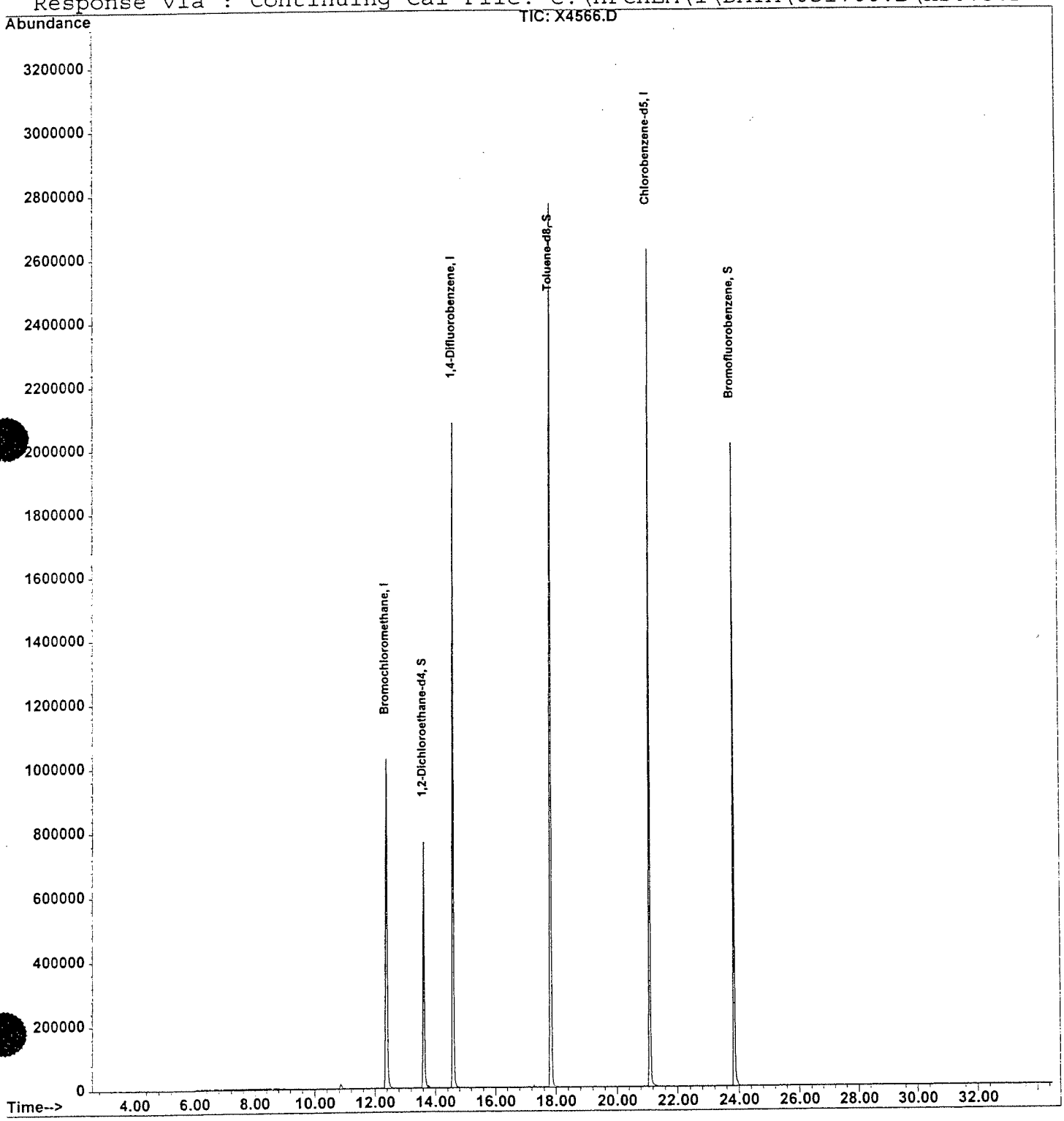
Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4566.D
Acq On : 17 May 2000 10:38
Sample : VBLK861
Misc : BLANK
MS Integration Params: rteint.p
Quant Time: May 18 13:40 2000

Vial: 1
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4566.D Vial: 1
Acq On : 17 May 2000 10:38 Operator: PULLAR
Sample : VBLK861 Inst : MS 3
Misc : BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 13:40 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

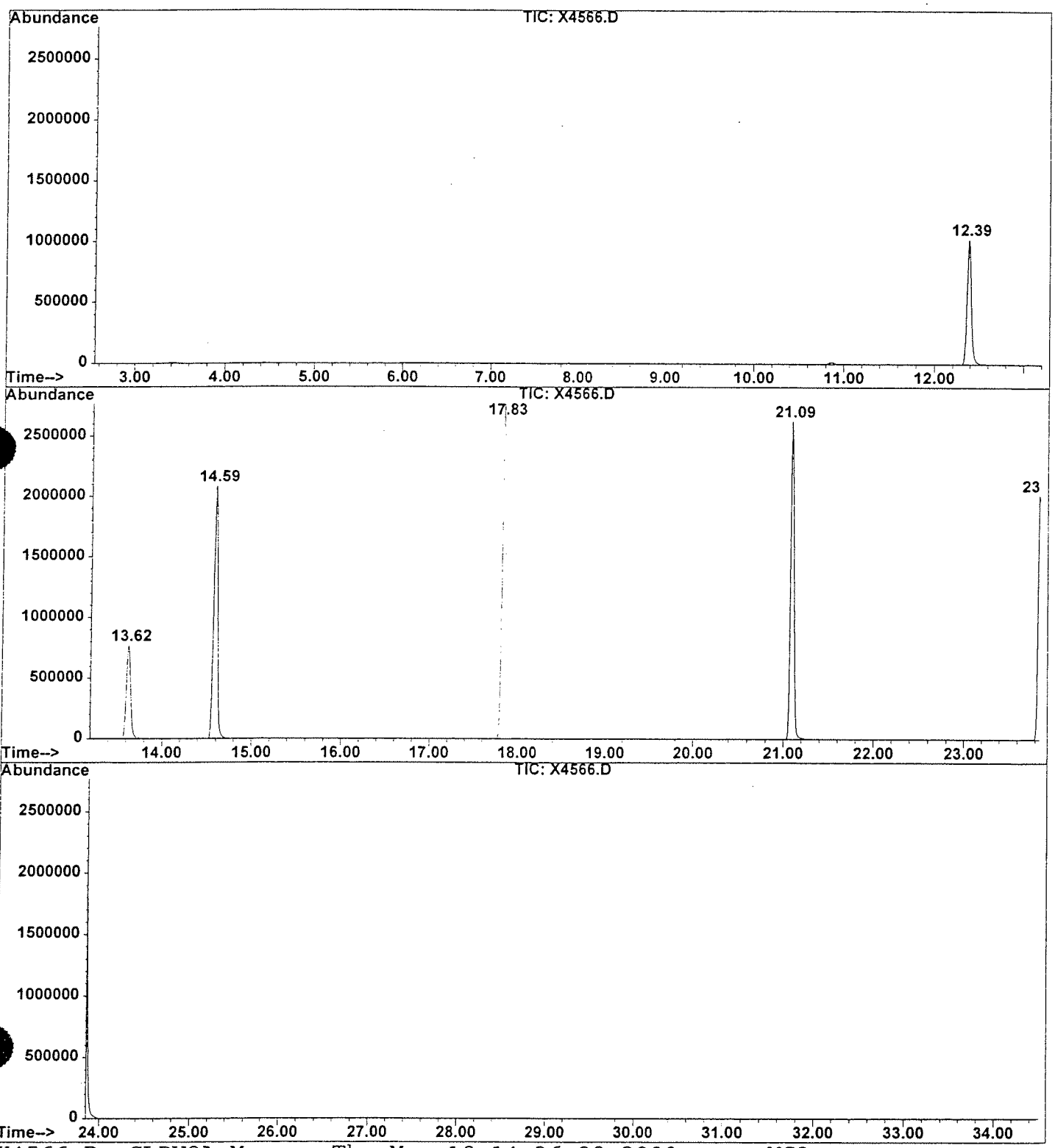
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	757620	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2948791	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.09	117	2523294	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.62	65	911141	49.69	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.38%			
43) Toluene-d8	17.83	98	2981287	50.88	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.76%			
48) Bromofluorobenzene	23.84	95	1090396	46.86	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.72%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051700.B\X4566.D
Operator : PULLAR
Acquired : 17 May 2000 10:38 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: VBLK861
Misc Info : BLANK
Vial Number: 1
Quant File :CLPVOA.RES (RTE Integrator)



X4566.D CLPVOA.M Thu May 18 14:36:28 2000 MS3

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 17 May 2000 10:38
Data File: C:\HPCHEM\1\DATA\051700.B\X4566.D
Name: VBLK861
[redacted]: BLANK
Method: C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

X4566.D CLPVOA.M Thu May 18 14:36:29 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK863

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBLK863

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4583

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/19/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
108-05-4	Vinyl Acetate	10.	U
156-60-5	1,2-Dichloroethene total	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	total-Xylene	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U

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NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK863

Name:Severn Trent Laboratories Contract:12-0806098

Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBLK863

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4583

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/19/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	10.	U

FORM I VOA 3/90

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315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK863

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBLK863

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4583

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/19/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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25.					
26.					
27.					
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30.					

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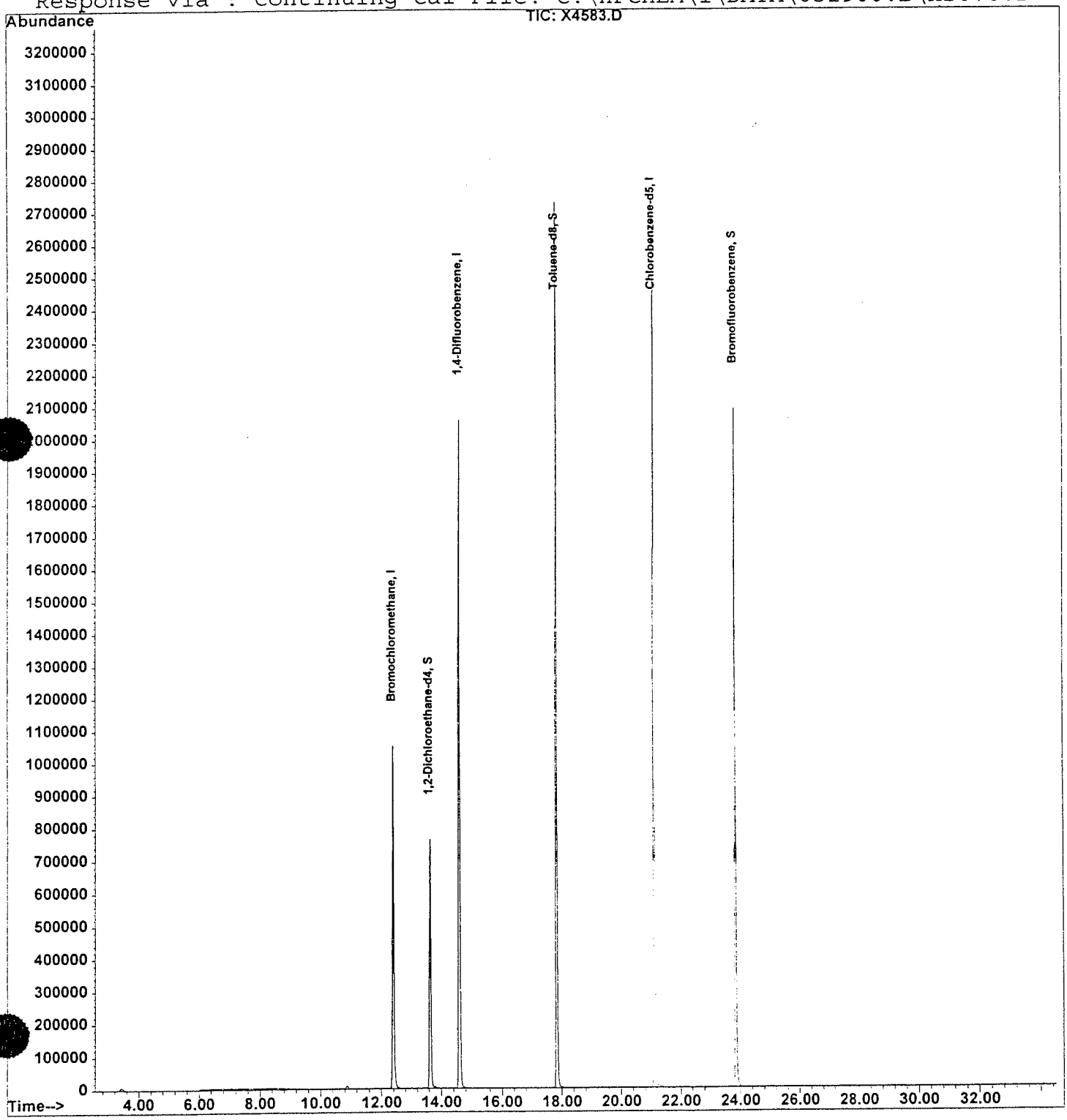
Quantitation Report

Data File : C:\HPCHEM\1\DATA\051900.B\X4583.D
Acq On : 19 May 2000 16:23
Sample : VBLK863
Misc : BLANK
MS Integration Params: rteint.p
Quant Time: May 20 11:55 2000

Vial: 7
Operator: PULLAR
Inst : MS 3
Multiplr: 1.00

Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Fri May 19 16:17:53 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051900.B\XS076.D



000132

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051900.B\X4583.D Vial: 7
Acq On : 19 May 2000 16:23 Operator: PULLAR
Sample : VBLK863 Inst : MS 3
Misc : BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 20 11:55 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051900.B\XS076.D
DataAcq Meth : CLPVOA

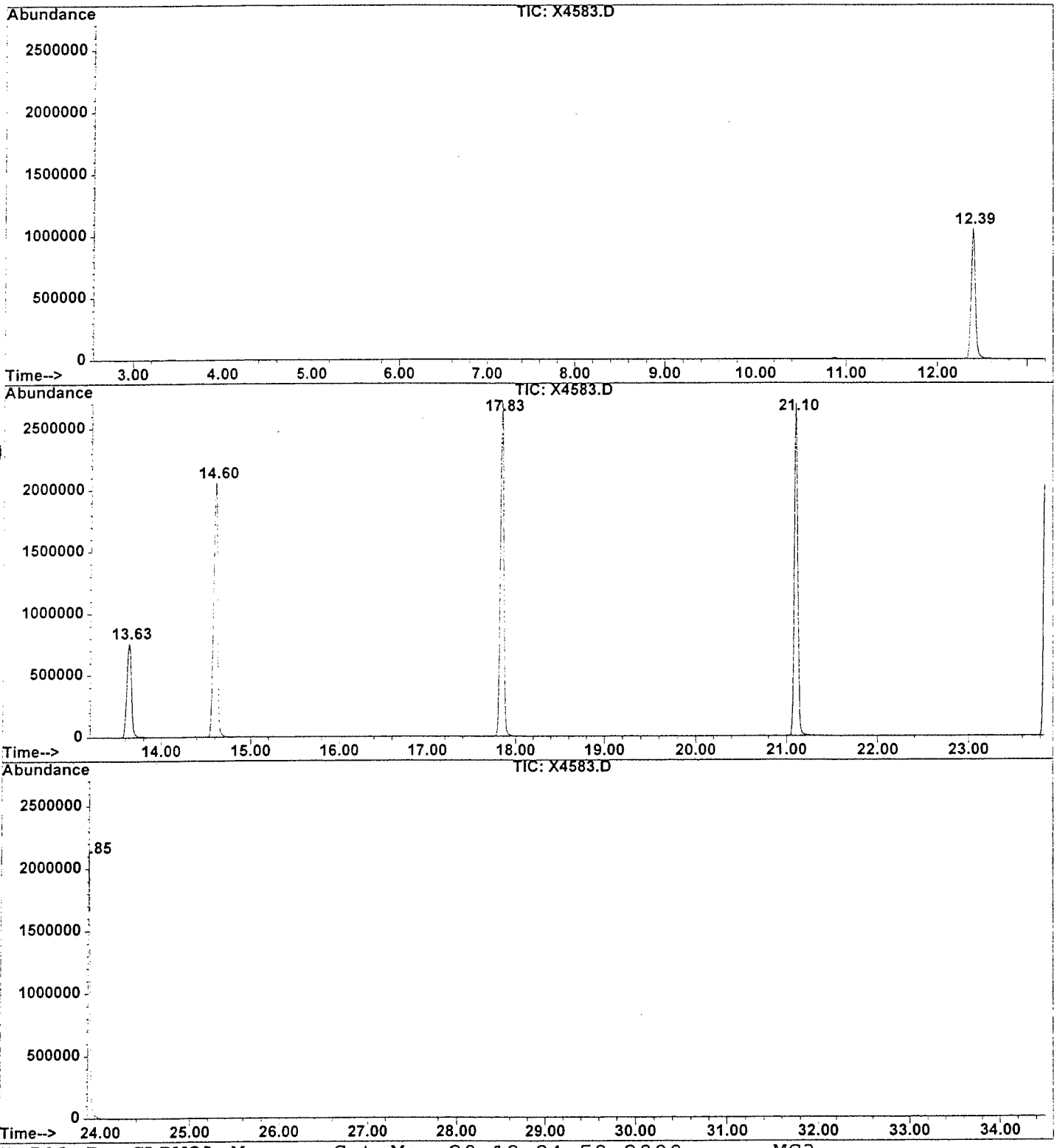
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	766518	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.60	114	2931475	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2526247	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	930705	51.18	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 102.36%			
43) Toluene-d8	17.83	98	2936004	50.67	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.34%			
48) Bromofluorobenzene	23.85	95	1091642	47.10	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 94.20%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\051900.B\X4583.D
Operator : PULLAR
Acquired : 19 May 2000 16:23 using AcqMethod CLPVOA
Instrument : MS 3
Sample Name: VBLK863
Misc Info : BLANK
Vial Number: 7
Quant File :CLPVOA.RES (RTE Integrator)



X4583.D CLPVOA.M Sat May 20 12:24:58 2000 MS3

Tentatively Identified Compound (LSC) summary

Operator ID: PULLAR Date Acquired: 19 May 2000 16:23
Data File: C:\HPCHEM\1\DATA\051900.B\X4583.D
Name: VBLK863
M[redacted]: BLANK
Method: C:\HPCHEM\1\DATA\051900.B\CLPVOA.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

X4583.D CLPVOA.M Sat May 20 12:24:58 2000 MS3

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBSPK17

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBSPK17

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4577

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	51.	
74-83-9	Bromomethane	56.	
75-01-4	Vinyl Chloride	50.	
75-00-3	Chloroethane	50.	
75-09-2	Methylene Chloride	49.	
67-64-1	Acetone	47.	
75-15-0	Carbon Disulfide	48.	
75-35-4	1,1-Dichloroethene	48.	
75-34-3	1,1-Dichloroethane	48.	
108-05-4	Vinyl Acetate	49.	
156-60-5	1,2-Dichloroethene total	98.	
67-66-3	Chloroform	49.	
107-06-2	1,2-Dichloroethane	49.	
78-93-3	2-Butanone	49.	
71-55-6	1,1,1-Trichloroethane	51.	
56-23-5	Carbon Tetrachloride	51.	
75-27-4	Bromodichloromethane	50.	
78-87-5	1,2-Dichloropropane	52.	
10061-01-5	cis-1,3-Dichloropropene	50.	
79-01-6	Trichloroethene	50.	
124-48-1	Dibromochloromethane	50.	
110-75-8	2-Chloroethylvinylether	54.	
79-00-5	1,1,2-Trichloroethane	52.	
71-43-2	Benzene	51.	
10061-02-6	trans-1,3-Dichloropropene	50.	
75-25-2	Bromoform	51.	
108-10-1	4-Methyl-2-Pentanone	49.	
591-78-6	2-Hexanone	48.	
127-18-4	Tetrachloroethene	49.	
79-34-5	1,1,2,2-Tetrachloroethane	52.	
108-88-3	Toluene	50.	
108-90-7	Chlorobenzene	49.	
100-41-4	Ethylbenzene	50.	
100-42-5	Styrene	50.	
330-20-7	total-Xylene	150.	
541-73-1	1,3-Dichlorobenzene	49.	
106-46-7	1,4-Dichlorobenzene	49.	

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBSPK17

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:VBSPK17

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4577

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	50.	

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000137

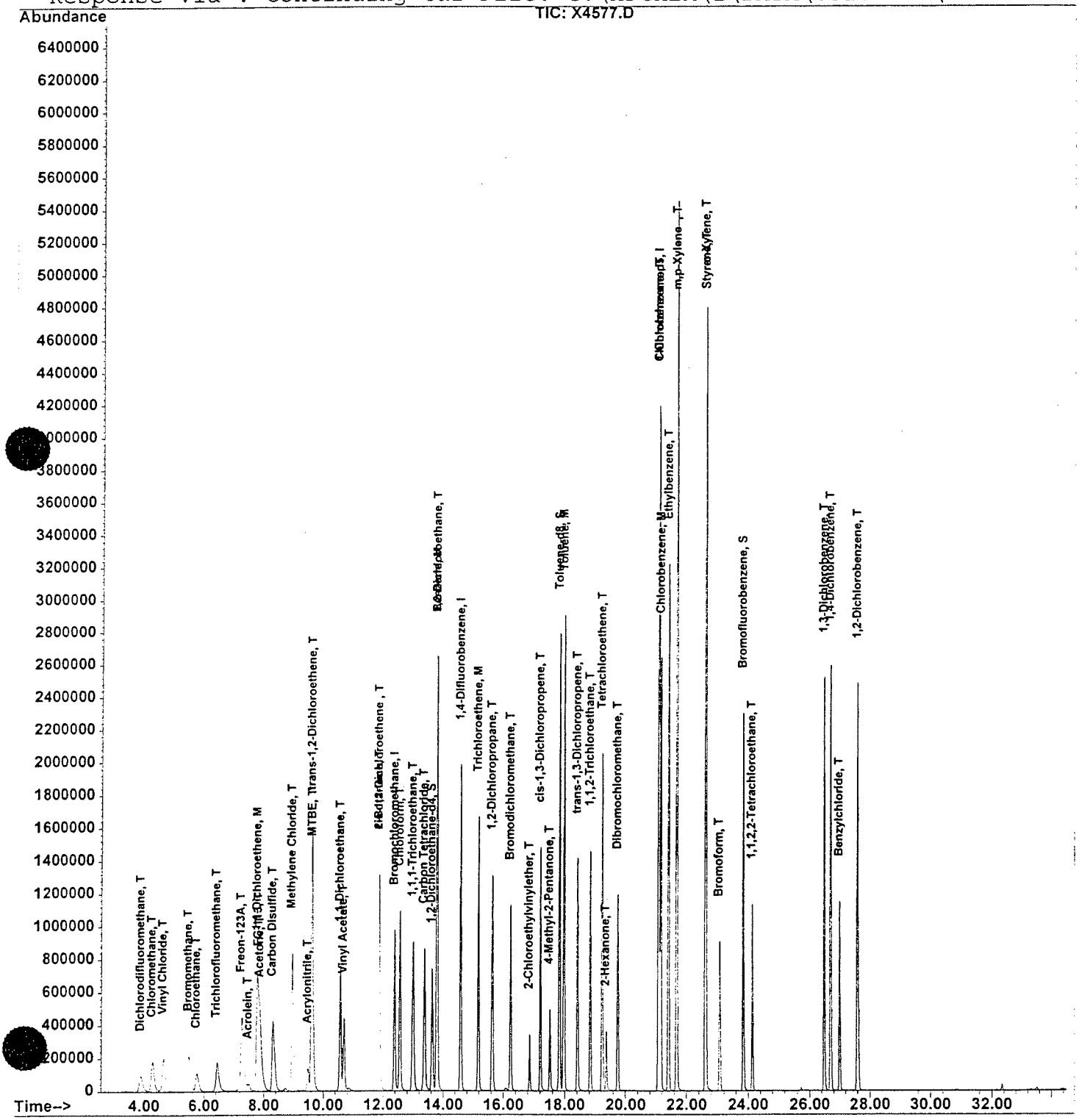
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4577.D Vial: 10
Acq On : 17 May 2000 18:32 Operator: PULLAR
Sample : VBSPK17 Inst : MS 3
Misc : BLANK SPIKE AT 50 UG/L Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 19:07 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



000138

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4577.D Vial: 10
Acq On : 17 May 2000 18:32 Operator: PULLAR
Sample : VBSPK17 Inst : MS 3
Misc : BLANK SPIKE AT 50 UG/L Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 19:07 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32) Benzene	13.79	78	3057470	51.05 ug/l		100
33) Dibromochloromethane	19.75	129	999756	50.49 ug/l		98
34) 2-Chloroethylvinylether	16.86	63	197262	53.65 ug/l		97
35) trans-1,3-Dichloropropene	18.42	75	1112398	49.57 ug/l		96
36) 1,1,2-Trichloroethane	18.84	97	740156	51.52 ug/l		95
37) Bromoform	23.08	173	687345	50.78 ug/l		99
39) 4-Methyl-2-Pentanone	17.52	58	206194	49.29 ug/l	#	77
40) 2-Hexanone	19.37	58	190788	48.19 ug/l		96
41) Tetrachloroethene	19.23	166	1026850	48.65 ug/l		92
42) 1,1,2,2-Tetrachloroethane	24.14	83	954393	51.78 ug/l		95
44) Toluene	17.98	92	1992024	49.77 ug/l		95
45) 1-Chlorohexane	21.08	55	749375	51.04 ug/l		88
46) Chlorobenzene	21.16	112	2400816	49.27 ug/l		99
47) Ethylbenzene	21.41	91	3727220	50.03 ug/l		98
49) m,p-Xylene	21.68	91	5589910	100.62 ug/l		94
50) o-Xylene	22.61	91	2867150	50.65 ug/l		93
51) Styrene	22.64	104	2457261	50.48 ug/l		100
52) 1,3-Dichlorobenzene	26.49	146	1821515	49.36 ug/l		95
53) 1,4-Dichlorobenzene	26.70	146	1861683	49.33 ug/l		95
54) 1,2-Dichlorobenzene	27.60	146	1775397	49.92 ug/l		95
55) Benzylchloride	27.01	91	1305481	45.86 ug/l		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4577.D Vial: 10
Acq On : 17 May 2000 18:32 Operator: PULLAR
Sample : VBSPK17 Inst : MS 3
Misc : BLANK SPIKE AT 50 UG/L Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 19:07 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	733563	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	2754787	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.09	117	2542252	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.62	65	876832	49.38	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.76%			
43) Toluene-d8	17.83	98	2956852	50.09	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.18%			
48) Bromofluorobenzene	23.84	95	1166864	49.77	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.90	85	480252	37.15	ug/l #	96
3) Chloromethane	4.28	50	810983	50.84	ug/l	98
4) Bromomethane	5.50	94	593827	56.38	ug/l	91
5) Vinyl Chloride	4.65	62	835355	49.74	ug/l	97
6) Chloroethane	5.77	64	403202	49.67	ug/l	95
7) Trichlorofluoromethane	6.45	101	578330	51.70	ug/l	98
8) Freon-123A	7.27	67	890694	48.67	ug/l	92
9) FC-113	7.84	101	760059	50.72	ug/l	93
10) Methylene Chloride	8.95	49	1166974	48.97	ug/l	99
11) Acetone	7.89	43	200844	46.95	ug/l	84
12) Carbon Disulfide	8.31	76	2020095	47.50	ug/l	100
13) Acrolein	7.50	56	74331	50.82	ug/l	96
14) Acrylonitrile	9.50	53	230690	48.21	ug/l	87
15) MTBE	9.65	73	1254630	44.60	ug/l	95
16) 1,1-Dichloroethene	7.78	61	931121	48.22	ug/l	87
17) 1,1-Dichloroethane	10.57	63	1418533	47.94	ug/l	99
18) trans-1,2-Dichloroethene	9.62	61	1213557	48.69	ug/l	96
19) cis-1,2-Dichloroethene	11.87	61	1160374	48.98	ug/l	85
20) Chloroform	12.57	83	1500337	48.85	ug/l	97
22) 1,2-Dichloroethane	13.79	62	1084418	49.37	ug/l	98
23) 2-Butanone	11.88	43	307606	48.63	ug/l	96
24) Vinyl Acetate	10.69	43	1300053	49.37	ug/l	98
26) 1,1,1-Trichloroethane	13.00	97	1176787	51.33	ug/l	100
27) Carbon Tetrachloride	13.37	117	1088363	50.90	ug/l	97
28) Bromodichloromethane	16.24	83	1116080	50.26	ug/l	99
29) 1,2-Dichloropropane	15.64	63	781392	51.92	ug/l	100
30) cis-1,3-Dichloropropene	17.21	75	1232869	50.23	ug/l	100
31) Trichloroethene	15.18	130	914257	50.09	ug/l	94

(#) = qualifier out of range (m) = manual integration

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01MS

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-03MS

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4578

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	52.	
74-83-9	Bromomethane	55.	
75-01-4	Vinyl Chloride	50.	
75-00-3	Chloroethane	50.	
75-09-2	Methylene Chloride	48.	
67-64-1	Acetone	37.	
75-15-0	Carbon Disulfide	46.	
75-35-4	1,1-Dichloroethene	47.	
75-34-3	1,1-Dichloroethane	47.	
108-05-4	Vinyl Acetate	49.	
156-60-5	1,2-Dichloroethene total	94.	
67-66-3	Chloroform	48.	
107-06-2	1,2-Dichloroethane	47.	
78-93-3	2-Butanone	44.	
71-55-6	1,1,1-Trichloroethane	49.	
56-23-5	Carbon Tetrachloride	48.	
75-27-4	Bromodichloromethane	47.	
78-87-5	1,2-Dichloropropane	50.	
10061-01-5	cis-1,3-Dichloropropene	46.	
79-01-6	Trichloroethene	48.	
124-48-1	Dibromochloromethane	48.	
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	50.	
71-43-2	Benzene	49.	
10061-02-6	trans-1,3-Dichloropropene	47.	
75-25-2	Bromoform	48.	
108-10-1	4-Methyl-2-Pentanone	48.	
591-78-6	2-Hexanone	44.	
127-18-4	Tetrachloroethene	58.	
79-34-5	1,1,2,2-Tetrachloroethane	50.	
108-88-3	Toluene	47.	
108-90-7	Chlorobenzene	48.	
100-41-4	Ethylbenzene	48.	
100-42-5	Styrene	46.	
1330-20-7	total-Xylene	140.	
541-73-1	1,3-Dichlorobenzene	48.	
106-46-7	1,4-Dichlorobenzene	47.	

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01MS

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-03MS

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4578

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	47.	

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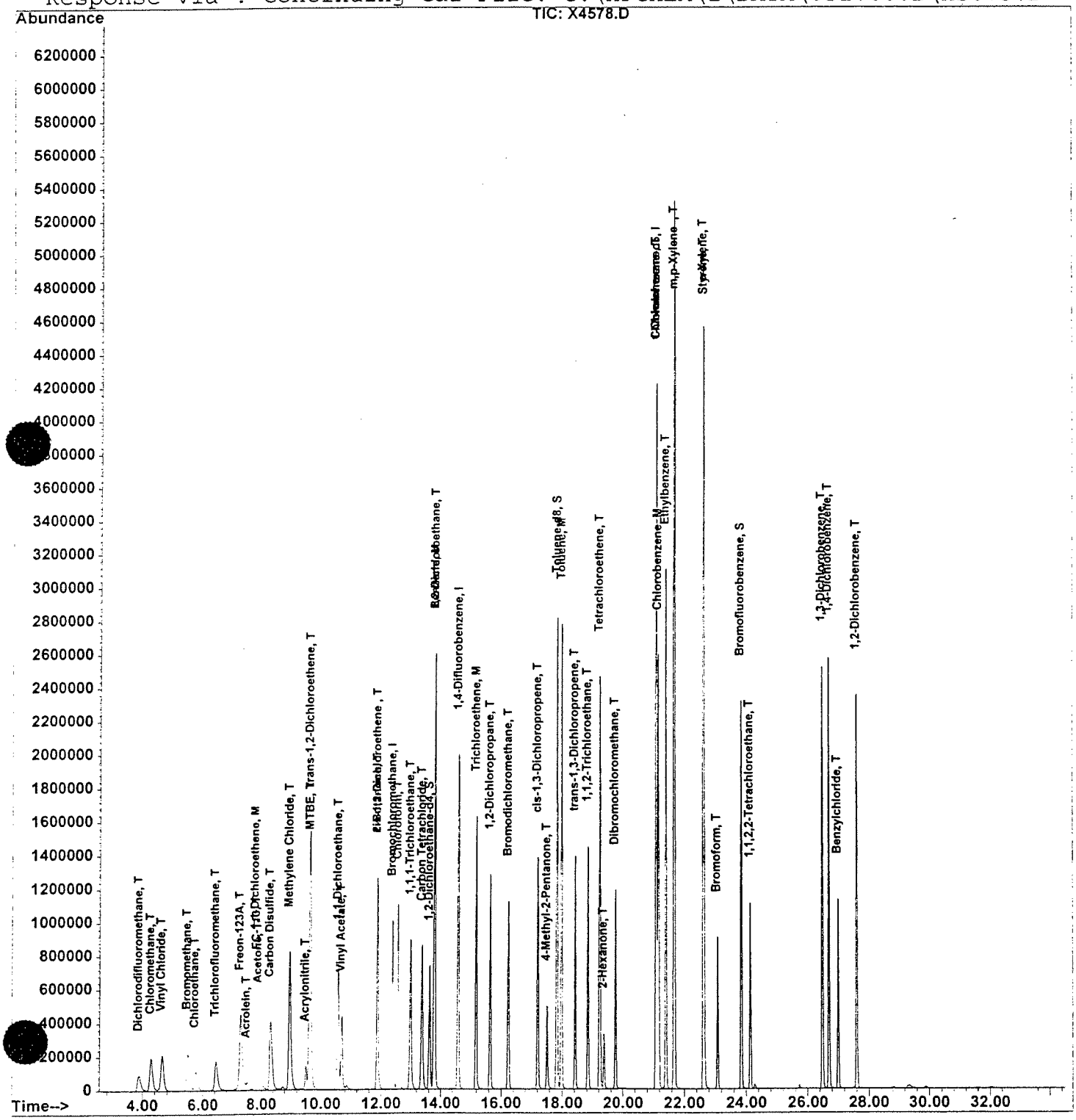
NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

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Fax: (914) 562-0841

Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4578.D Vial: 11
Acq On : 17 May 2000 19:13 Operator: PULLAR
Sample : 215969-03MS Inst : MS 3
Misc : MCLAREN/HART GW-01 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:16 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



000143

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4578.D Vial: 11
Acq On : 17 May 2000 19:13 Operator: PULLAR
Sample : 215969-03MS Inst : MS 3
Misc : MCLAREN/HART GW-01 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:16 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	12.39	49	755686	50.00	ug/l		0.00
25) 1,4-Difluorobenzene	14.59	114	2860078	50.00	ug/l		0.00
38) Chlorobenzene-d5	21.09	117	2626498	50.00	ug/l		0.00
System Monitoring Compounds							
21) 1,2-Dichloroethane-d4	13.62	65	893623	48.86	ug/l		0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 97.72%				
43) Toluene-d8	17.83	98	3003030	49.24	ug/l		0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.48%				
48) Bromofluorobenzene	23.84	95	1207315	49.85	ug/l		0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.89	85	473337	35.54	ug/l		94
3) Chloromethane	4.29	50	856311	52.11	ug/l		99
4) Bromomethane	5.49	94	594477	54.79	ug/l		90
5) Vinyl Chloride	4.63	62	870279	50.31	ug/l		98
6) Chloroethane	5.75	64	416739	49.84	ug/l		99
7) Trichlorofluoromethane	6.44	101	570586	49.52	ug/l		100
8) Freon-123A	7.27	67	898476	47.65	ug/l	#	93
9) FC-113	7.85	101	749107	48.52	ug/l		91
10) Methylene Chloride	8.95	49	1177714	47.97	ug/l		99
11) Acetone	7.90	43	163388	37.08	ug/l		86
12) Carbon Disulfide	8.30	76	2010978	45.90	ug/l		100
13) Acrolein	7.50	56	78159	51.87	ug/l		100
14) Acrylonitrile	9.50	53	236404	47.95	ug/l		89
15) MTBE	9.65	73	1303638	44.99	ug/l		94
16) 1,1-Dichloroethene	7.78	61	940657	47.28	ug/l		86
17) 1,1-Dichloroethane	10.57	63	1445509	47.42	ug/l		99
18) trans-1,2-Dichloroethene	9.62	61	1208375	47.06	ug/l		96
19) cis-1,2-Dichloroethene	11.87	61	1148691	47.07	ug/l		85
20) Chloroform	12.57	83	1528555	48.31	ug/l		97
22) 1,2-Dichloroethane	13.79	62	1068697	47.23	ug/l		100
23) 2-Butanone	11.88	43	289632	44.45	ug/l		95
24) Vinyl Acetate	10.70	43	1335781	49.25	ug/l		98
26) 1,1,1-Trichloroethane	13.00	97	1159600	48.72	ug/l		99
27) Carbon Tetrachloride	13.38	117	1075994	48.47	ug/l		100
28) Bromodichloromethane	16.24	83	1090767	47.31	ug/l		99
29) 1,2-Dichloropropane	15.64	63	781660	50.03	ug/l		100
30) cis-1,3-Dichloropropene	17.22	75	1181352	46.36	ug/l		99
31) Trichloroethene	15.18	130	916647	48.37	ug/l		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4578.D Vial: 11
Acq On : 17 May 2000 19:13 Operator: PULLAR
Sample : 215969-03MS Inst : MS 3
Misc : MCLAREN/HART GW-01 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:16 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32) Benzene	13.78	78	3050823	49.06 ug/l		100
33) Dibromochloromethane	19.75	129	994187	48.36 ug/l		97
35) trans-1,3-Dichloropropene	18.42	75	1100368	47.22 ug/l		96
36) 1,1,2-Trichloroethane	18.84	97	738771	49.53 ug/l		98
37) Bromoform	23.08	173	676895	48.17 ug/l		99
39) 4-Methyl-2-Pentanone	17.52	58	207488	48.01 ug/l	#	77
40) 2-Hexanone	19.37	58	181738	44.43 ug/l		92
41) Tetrachloroethene	19.24	166	1261092	57.83 ug/l		90
42) 1,1,2,2-Tetrachloroethane	24.14	83	955356	50.17 ug/l		96
44) Toluene	17.98	92	1952200	47.21 ug/l		95
45) 1-Chlorohexane	21.08	55	745123	49.12 ug/l		87
46) Chlorobenzene	21.16	112	2396294	47.60 ug/l		100
47) Ethylbenzene	21.41	91	3694005	47.99 ug/l		99
[illegible]) m,p-Xylene	21.68	91	5479936	95.47 ug/l		95
[illegible]) o-Xylene	22.61	91	2835714	48.49 ug/l		93
51) Styrene	22.64	104	2336241	46.45 ug/l		100
52) 1,3-Dichlorobenzene	26.49	146	1838540	48.22 ug/l		95
53) 1,4-Dichlorobenzene	26.70	146	1836470	47.11 ug/l		95
54) 1,2-Dichlorobenzene	27.61	146	1741422	47.39 ug/l		93
55) Benzylchloride	27.00	91	1305061	44.38 ug/l		93

(#) = qualifier out of range (m) = manual integration

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01MSD

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-03MSD

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4579

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	55.	
74-83-9	Bromomethane	56.	
75-01-4	Vinyl Chloride	53.	
75-00-3	Chloroethane	51.	
75-09-2	Methylene Chloride	50.	
67-64-1	Acetone	38.	
75-15-0	Carbon Disulfide	49.	
75-35-4	1,1-Dichloroethene	50.	
75-34-3	1,1-Dichloroethane	50.	
108-05-4	Vinyl Acetate	53.	
156-60-5	1,2-Dichloroethene total	99.	
67-66-3	Chloroform	50.	
107-06-2	1,2-Dichloroethane	48.	
78-93-3	2-Butanone	46.	
71-55-6	1,1,1-Trichloroethane	49.	
56-23-5	Carbon Tetrachloride	48.	
75-27-4	Bromodichloromethane	47.	
78-87-5	1,2-Dichloropropane	51.	
10061-01-5	cis-1,3-Dichloropropene	47.	
79-01-6	Trichloroethene	50.	
124-48-1	Dibromochloromethane	48.	
110-75-8	2-Chloroethylvinylether	10.	U
79-00-5	1,1,2-Trichloroethane	50.	
71-43-2	Benzene	50.	
10061-02-6	trans-1,3-Dichloropropene	48.	
75-25-2	Bromoform	48.	
108-10-1	4-Methyl-2-Pentanone	51.	
591-78-6	2-Hexanone	48.	
127-18-4	Tetrachloroethene	61.	
79-34-5	1,1,2,2-Tetrachloroethane	52.	
108-88-3	Toluene	50.	
108-90-7	Chlorobenzene	50.	
100-41-4	Ethylbenzene	50.	
100-42-5	Styrene	48.	
1330-20-7	total-Xylene	150.	
541-73-1	1,3-Dichlorobenzene	50.	
106-46-7	1,4-Dichlorobenzene	49.	

STL Committed To Your Success

315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01MSD

Lab Name:Severn Trent Laboratories Contract:12-0806098

Lab Code:10142 Case No.: SAS No.: SDG No.:MC969

Matrix: (soil/water) WATER Lab Sample ID:215969-03MSD

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: X4579

Level: (low/med) LOW Date Received: 5/10/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column:DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-50-1	1,2-Dichlorobenzene	49.	

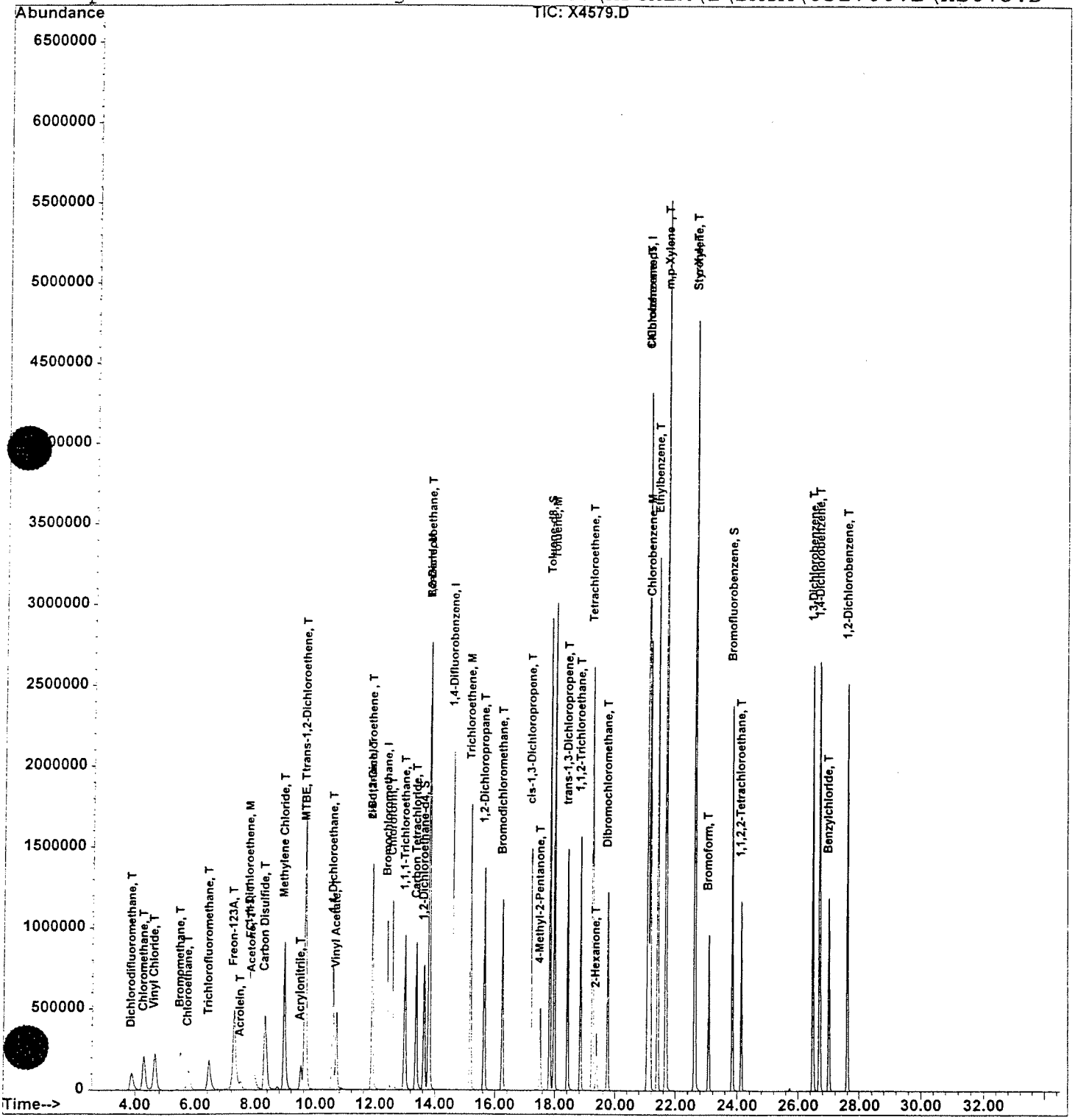
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STL Committed To Your Success
NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (914) 562-0890
Fax: (914) 562-0841

Quantitation Report

Data File : C:\HPCHEM\1\DATA\051700.B\X4579.D Vial: 12
Acq On : 17 May 2000 19:55 Operator: PULLAR
Sample : 215969-03MSD Inst : MS 3
Misc : MCLAREN/HART GW-01 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:18 2000 Quant Results File: CLPVOA.RES

Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed May 17 10:31:59 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4579.D Vial: 12
Acq On : 17 May 2000 19:55 Operator: PULLAR
Sample : 215969-03MSD Inst : MS 3
Misc : MCLAREN/HART GW-01 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:18 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	12.39	49	784309	50.00	ug/l	0.00
25) 1,4-Difluorobenzene	14.59	114	3048996	50.00	ug/l	0.00
38) Chlorobenzene-d5	21.10	117	2668632	50.00	ug/l	0.00
System Monitoring Compounds						
21) 1,2-Dichloroethane-d4	13.63	65	932266	49.11	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.22%			
43) Toluene-d8	17.83	98	3120676	50.36	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.72%			
48) Bromofluorobenzene	23.84	95	1245057	50.59	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 101.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.88	85	529038	38.27	ug/l #	95
3) Chloromethane	4.28	50	934203	54.78	ug/l	98
4) Bromomethane	5.49	94	636386	56.51	ug/l	91
5) Vinyl Chloride	4.64	62	944588	52.61	ug/l	97
6) Chloroethane	5.77	64	444579	51.22	ug/l	93
7) Trichlorofluoromethane	6.45	101	610716	51.06	ug/l	99
8) Freon-123A	7.27	67	971454	49.64	ug/l	94
9) FC-113	7.84	101	811718	50.66	ug/l	92
10) Methylene Chloride	8.96	49	1280573	50.26	ug/l	98
11) Acetone	7.89	43	172735	37.77	ug/l	84
12) Carbon Disulfide	8.31	76	2212558	48.66	ug/l	100
13) Acrolein	7.51	56	87271	55.81	ug/l	96
14) Acrylonitrile	9.50	53	254147	49.67	ug/l	94
15) MTBE	9.65	73	1453992	48.35	ug/l	93
16) 1,1-Dichloroethene	7.78	61	1026221	49.70	ug/l	84
17) 1,1-Dichloroethane	10.57	63	1571351	49.67	ug/l	100
18) trans-1,2-Dichloroethene	9.62	61	1311248	49.20	ug/l	95
19) cis-1,2-Dichloroethene	11.87	61	1252407	49.45	ug/l	85
20) Chloroform	12.57	83	1613717	49.14	ug/l	97
22) 1,2-Dichloroethane	13.79	62	1140116	48.55	ug/l	99
23) 2-Butanone	11.88	43	312344	46.18	ug/l	99
24) Vinyl Acetate	10.69	43	1495198	53.11	ug/l	99
26) 1,1,1-Trichloroethane	13.00	97	1253439	49.40	ug/l	98
27) Carbon Tetrachloride	13.38	117	1142799	48.29	ug/l	98
28) Bromodichloromethane	16.24	83	1165651	47.42	ug/l	98
29) 1,2-Dichloropropane	15.65	63	850381	51.06	ug/l	99
30) cis-1,3-Dichloropropene	17.22	75	1289553	47.47	ug/l	100
31) Trichloroethene	15.19	130	1007679	49.88	ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051700.B\X4579.D Vial: 12
Acq On : 17 May 2000 19:55 Operator: PULLAR
Sample : 215969-03MSD Inst : MS 3
Misc : MCLAREN/HART GW-01 8260BPP Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 14:18 2000 Quant Results File: CLPVOA.RES

Quant Method : C:\HPCHEM\1\DATA\051700.B\CLPVOA.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 16 13:44:45 2000
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\051700.B\XS073.D
DataAcq Meth : CLPVOA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
32) Benzene	13.79	78	3284182	49.54 ug/l	100
33) Dibromochloromethane	19.76	129	1059552	48.34 ug/l	97
35) trans-1,3-Dichloropropene	18.42	75	1189669	47.89 ug/l	99
36) 1,1,2-Trichloroethane	18.84	97	796855	50.12 ug/l	95
37) Bromoform	23.08	173	726343	48.48 ug/l	98
39) 4-Methyl-2-Pentanone	17.52	58	223526	50.90 ug/l #	81
40) 2-Hexanone	19.38	58	199025	47.89 ug/l	92
41) Tetrachloroethene	19.23	166	1343020	60.61 ug/l	92
42) 1,1,2,2-Tetrachloroethane	24.14	83	1000004	51.68 ug/l	97
44) Toluene	17.98	92	2098467	49.95 ug/l	95
45) 1-Chlorohexane	21.08	55	765252	49.65 ug/l	83
46) Chlorobenzene	21.16	112	2556500	49.98 ug/l	99
47) Ethylbenzene	21.41	91	3926963	50.21 ug/l	99
49) m,p-Xylene	21.68	91	5737240	98.38 ug/l	95
50) o-Xylene	22.61	91	2967545	49.94 ug/l	93
51) Styrene	22.64	104	2481133	48.56 ug/l	100
52) 1,3-Dichlorobenzene	26.49	146	1936591	49.99 ug/l	95
53) 1,4-Dichlorobenzene	26.70	146	1939850	48.97 ug/l	95
54) 1,2-Dichlorobenzene	27.60	146	1842935	49.36 ug/l	95
55) Benzylchloride	27.01	91	1371252	45.89 ug/l	94

(#) = qualifier out of range (m) = manual integration

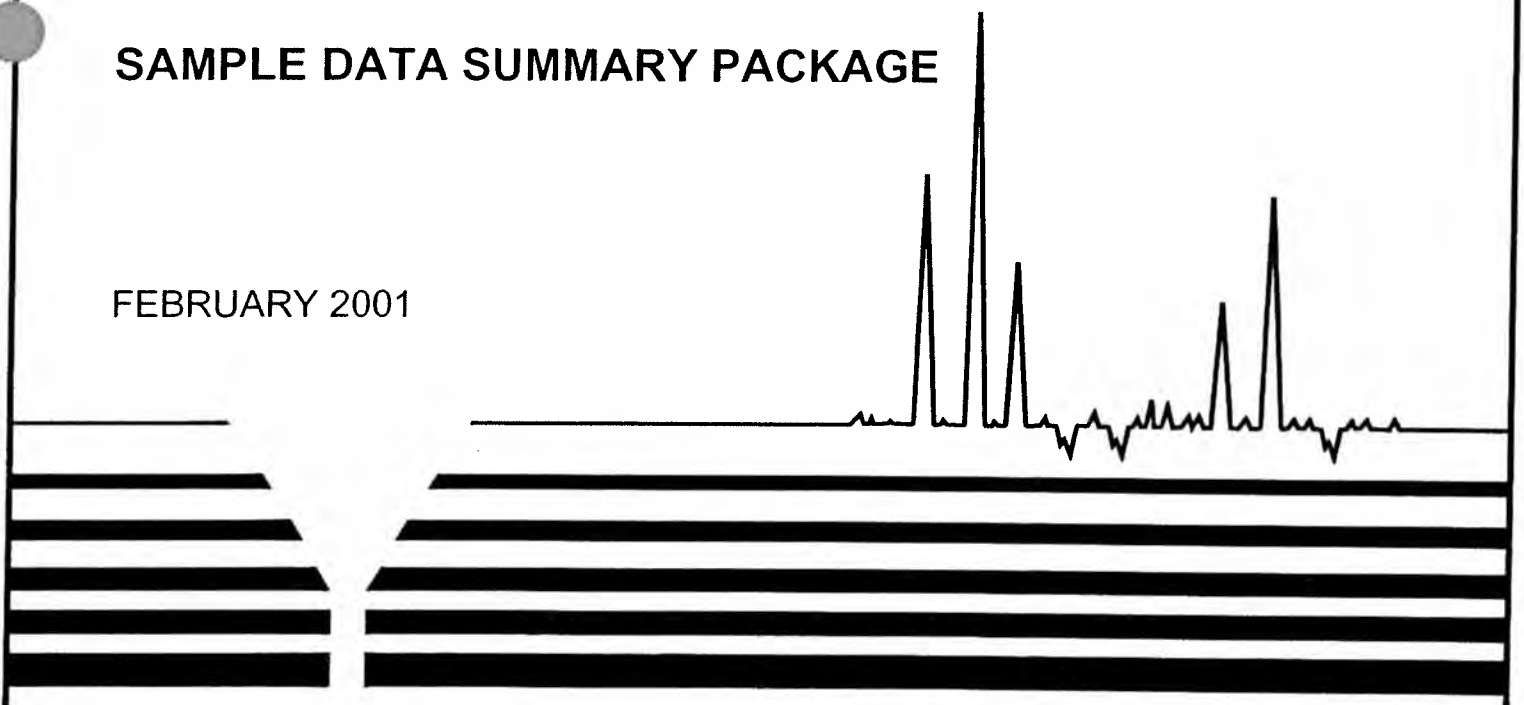
Analytical Data Package For

VERTEX ENGINEERING
SDG NO: VES001

Soil Samples
Received: 2/15/01

SAMPLE DATA SUMMARY PACKAGE

FEBRUARY 2001



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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VERTEX ENGINEERING
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SAMPLES RECEIVED: 2/15/01
SDG NO.: VES001

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5. SURROGATE SPIKE ANALYSIS RESULTS
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H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
SOIL SAMPLES
SDG NO.: VES001
SAMPLES RECEIVED: 2/15/01

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PEST/ PCB	*METALS	OTHER
SB-17-0001 MS/MSD	0102369-001	X					
SB-17-0102	0102369-002	X					
SB-17-0203	0102369-003	X					
SB-18-0001	0102369-004	X					
SB-18-0203	0102369-005	X					
SB-18-0304	0102369-006	X					
SB-20-0001	0102369-007	X					
SB-20-0102	0102369-008	X					
SB-20-0202	0102369-009	X					
SB-20-0203	0102369-010	X					
SB-21-0001	0102369-011	X					
SB-21-0210	0102369-012	X					
SB-22-0001	0102369-013	X					
SB-22-0102	0102369-014	X					
SB-22-0203	0102369-015	X					

* Check Appropriate Boxes
* CLP, Non-CLP (Please indicate year of protocol) 1095
* TCL/TAL, HCL, TS

Volatile Sample Analysis Summary

Sample ID	Matrix	Date Collected	Date Received	Level	Date Analyzed
SB-17-0001	soil	2/14/2001	2/15/2001	low	2/22/2001
SB-17-0001MS	soil	2/14/2001	2/15/2001	low	2/22/2001
SB-17-0001MSD	soil	2/14/2001	2/15/2001	low	2/22/2001
SB-17-0102	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-17-0203	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-18-0001	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-18-0001DL	soil	2/14/2001	2/15/2001	low	2/22/2001
SB-18-0203	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-18-0304	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-20-0001	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-20-0102	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-20-0202	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-20-0203	soil	2/14/2001	2/15/2001	low	2/22/2001
SB-21-0001	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-21-0102	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-22-0001	soil	2/14/2001	2/15/2001	low	2/16/2001
SB-22-0102	soil	2/14/2001	2/15/2001	low	2/17/2001
SB-22-0203	soil	2/14/2001	2/15/2001	low	2/17/2001

3/4/01

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

2617

EXTERNAL CHAIN OF CUSTODY

182

CLIENT: Vertex Engineering

H2M SDG NO: 001

PROJECT NAME/NUMBER: Carmel, NY

SAMPLERS: (signature)/Client: Cory Weiss

DELIVERABLES: CLP Category B

TURNAROUND TIME: Normal

NOTES: Designate 1 Sample as MS/MSD per client

Project Contact: G. Hickson

Phone Number: 718-721-9488

	DATE	TIME	MATRIX	FIELD I.D.	Sample Container Description	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	8260	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
14	2/14	AM	S	SB-22-0102 ✓	8021B	1				X			0102369-014	
10				SB-20-0203 ✓									010	
11				SB-21-0001 ✓									011	
8				SB-20-0102 ✓									008	
7				SB-20-0001 ✓									007	
15				SB-22-0203 ✓									015	
13				SB-22-0001 ✓									013	
12				SB-21-0102 ✓									012	
9				SB-20-0202 ✓									009	
5				SB-18-0203 ✓									005	
1				SB17-0001 ✓									001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Cory Weiss	2/15	0910	[signature]	2/15/01	0910
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

S 0006

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

2616 EXTERNAL CHAIN OF CUSTODY 282

CLIENT: Vertex **H2M SDG NO:** 001

PROJECT NAME/NUMBER: Carmel, NY

SAMPLERS: (signature)/Client: Corm

DELIVERABLES: CLP category B

TURNAROUND TIME:

NOTES:

Project Contact: G. Hickson

Phone Number: 718-729-9489

Sample Container Description: 8 oz jar

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	BNA	Pest/ PCB	TCL				INORG.: Metal	CN	LAB I.D. NO.	REMARKS:
2/14	AM	S	SB-18-0304 ✓ -	1				1						0102369-006	
			SB-17-0203 ✓ -											003	
			SB-17-0102 ✓ -											002	
			SB-[redacted]												
			SB-18-0001 ✓ -											004	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	2/15	0910	[signature]	2/15/01	0910
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain: _____

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

2000 S

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 30 Days

SDG #: VES001 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: _____

RECEIVED BY: LSD SIGNATURE: LSD DATE: 2/15/01 TIME: 0910

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED (2/15 KEL)
1	SB-17-0001 MS MSD	0102369-001A	2.14.01	C	1	~~AS895-1~~ - S+TICS
2	0102	002A				8260-TCL-S
3	0203	003A				
4	SB-18-0001	004A				
5	0203	005A				
6	0304	006A				
7	SB-20-0001	007A				
8	0102	008A				
9	0202	009A				
10	0203	010A				
11	SB-21-0001	011A				
12	0102	012A				
13	SB-22-0001	013A				
14	0102	014A				
15	0203	015A				
16						
17			LSD 2/15/01			
18						
19						
20						

P 0112

S 0008

H2M LABS, INC.

CLIENT: VES

SDG #: VES001

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
2/19/01	1630	SIGN	SIGN	C	Analysis	
2/20/01	1050	SIGN	SIGN	AHC	T.S.	
2/20/01	1120	SIGN	SIGN	AHC	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

P 0113

S 0009

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLE RECEIVED: 2/15/01
SDG #: VES001

For Sample:

SB-17-0001 MS/MSD	SB-20-0202
SB-17-0102	SB-20-0203
SB-17-0203	SB-21-0001
SB-18-0001	SB-21-0210
SB-18-0203	SB-22-0001
SB-18-0304	SB-22-0102
SB-20-0001	SB-22-0203
SB-20-0102	

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260 for the TCL volatile organic analytes.

Sample SB-17-0001 was analyzed as the matrix spike/matrix spike duplicate.

Sample SB-18-0001 was reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range in the initial analysis. Both sets of data are submitted.

Bromomethane had a 32.4% D in the continuing calibration of 2/16/01 (limit 25%). Vinyl chloride had a 26.9% D in the continuing calibration of 2/22/01 (limit 25%).

All other quality control and calibration requirements were met.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 9, 2001

****
* *
* *
****

Joann M. Slavin
Laboratory Manager

o:\qc\narr2001\ves\voa\ves001.rtf

4. SAMPLE REPORTS

4.1 VOLATILES

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\% moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17-0001

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-001A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17741.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 7 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	2	JB U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	23	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-17-0001

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-001A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17741.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 7 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0016

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17-0102

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-002A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17714.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 6 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	3	JB U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	110	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0017

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-17-0102

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-002A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17714.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 6 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0018

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17-0203

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-003A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17715.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	3	JB U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0019

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-17-0203

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-003A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17715.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0020

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-0001

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-004A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17718.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 4 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	240	E
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene(total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-18-0001

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-004A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17718.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 4 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	16.63	6	J

S 0022

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-0001DL

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-004A

Sample wt/vol: 1.0 (g/ml) G Lab File ID: P17735.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 4 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	52	U
74-83-9	Bromomethane	52	U
75-01-4	Vinyl Chloride	52	U
75-00-3	Chloroethane	52	U
75-09-2	Methylene Chloride	15	JB U
67-64-1	Acetone	52	U
75-15-0	Carbon Disulfide	52	U
75-35-4	1,1-Dichloroethene	52	U
75-34-4	1,1-Dichloroethane	52	U
540-59-0	1,2-Dichloroethene(total)	52	U
78-93-3	2-Butanone	52	U
67-66-3	Chloroform	52	U
107-06-2	1,2-Dichloroethane	52	U
71-55-6	1,1,1-Trichloroethane	52	U
56-23-5	Carbon Tetrachloride	52	U
75-27-4	Bromodichloromethane	52	U
78-87-5	1,2-Dichloropropane	52	U
10061-01-5	cis-1,3-Dichloropropene	52	U
79-01-6	Trichloroethene	52	U
71-43-2	Benzene	52	U
124-48-1	Dibromochloromethane	52	U
10061-02-6	trans-1,3-Dichloropropene	52	U
79-00-5	1,1,2-Trichloroethane	52	U
75-25-2	Bromoform	52	U
108-10-1	4-Methyl-2-Pentanone	52	U
591-78-6	2-Hexanone	52	U
127-18-4	Tetrachloroethene	220	
79-34-5	1,1,2,2-Tetrachloroethane	52	U
108-88-3	Toluene	52	U
108-90-7	Chlorobenzene	52	U
100-41-4	Ethylbenzene	52	U
100-42-5	Styrene	52	U
1330-20-7	Xylene(total)	52	U

S 0023

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-18-0001DL

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-004A

Sample wt/vol: 1.0 (g/ml) G Lab File ID: P17735.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 4 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0024

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-0203

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-005A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17719.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 10 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	4	JB U
67-64-1	Acetone	9	J J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	9	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-18-0203

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-005A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17719.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 10 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0026

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-0304

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-006A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17720.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 10 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	JB U
67-64-1	Acetone	16	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	16	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-18-0304

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-006A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17720.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 10 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0028

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-20-0001

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-007A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17721.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 6 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	4	JB U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	70	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0029

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-20-0001

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-007A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17721.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 6 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0030

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-20-0102

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-008A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17722.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 9 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	JB U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	30	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0031

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-20-0102

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-008A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17722.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 9 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0032

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-20-0202

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-009A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17723.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 10 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	4	JB U
67-64-1	Acetone	8	J J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	27	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0033

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-20-0202

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-009A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17723.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 10 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0034

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-20-0203

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-010A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17737.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	3	JB U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-20-0203

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-010A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17737.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0036

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-21-0001

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-011A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17725.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 15 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	5	JB U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-4	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene(total)	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
71-43-2	Benzene	12	U
124-48-1	Dibromochloromethane	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	44	
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene(total)	12	U

S 0037

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-21-0001

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-011A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17725.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 15 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0038

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-21-0102

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-012A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17726.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 9 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	JB U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-21-0102

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-012A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17726.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 9 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0040

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-22-0001

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-013A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17727.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 7 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	JBU
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	18	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0041

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-22-0001

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-013A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17727.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 7 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0042

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-22-0102

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-014A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17728.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/17/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	JBU
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	9	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0043

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-22-0102

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-014A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17728.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/17/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0044

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-22-0203

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-015A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17729.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/17/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	JBU
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene(total)	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	10	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene(total)	11	U

S 0045

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-22-0203

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: 0102369-015A

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17729.D

Level: (low/med) LOW Date Received: 02/15/01

% Moisture: not dec. 8 Date Analyzed: 02/17/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0046

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK2/16/01	97	99	101	0
02	LFB2/16/01	99	105	100	0
03	SB-17-0102	101	102	103	0
04	SB-17-0203	102	99	101	0
05	SB-18-0001	105	104	102	0
06	SB-18-0203	103	101	105	0
07	SB-18-0304	106	106	106	0
08	SB-20-0001	107	101	105	0
09	SB-20-0102	103	99	103	0
10	SB-20-0202	101	101	103	0
11	SB-21-0001	106	102	105	0
12	SB-21-0102	104	104	102	0
13	SB-22-0001	106	100	101	0
14	SB-22-0102	104	100	101	0
15	SB-22-0203	107	107	106	0
16	VBLK2/22/01	105	99	99	0
17	MSB2/22/01	95	98	97	0
18	SB-18-0001DL	100	99	99	0
19	SB-20-0203	101	99	98	0
20	SB-17-0001MS	94	103	97	0
21	SB-17-0001MSD	96	100	98	0
22	SB-17-0001A	99	97	96	0

MB
2/27/01

				QC LIMITS
SMC1	(DCE)	=	1,2-Dichloroethane-d4	(70-121)
SMC2	(TOL)	=	Toluene-d8	(84-138)
SMC3	(BFB)	=	4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix Spike - EPA Sample No.: SB-17-0001 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	54	0.0	54	100	59 - 172
Trichloroethene	54	0.0	48	89	62 - 137
Benzene	54	0.0	49	91	66 - 142
Toluene	54	0.0	51	94	59 - 139
Chlorobenzene	54	0.0	47	87	60 - 133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	54	54	100	0	22	59 - 172
Trichloroethene	54	46	85	5	24	62 - 137
Benzene	54	46	85	7	21	66 - 142
Toluene	54	48	89	5	21	59 - 139
Chlorobenzene	54	44	81	7	21	60 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

_____

SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: H2M LABS, INC Contract: C003786

Lab Code: 10478 Case No.: _____ SDG:VES-001

Matrix Spike - EPA Sample No.: MSB2/22/01 SAS No.: ___

COMPOUND	SPIKE ADDED UG/KG	MS CONCENTRATION UG/KG	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	50	100	(61-145)
Trichloroethene	50	49	98	(71-120)
Benzene	50	47	94	(76-127)
Toluene	50	49	98	(76-125)
Chlorobenzene	50	49	98	(75-130)

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

Comments: _____

_____

3/90

QC CHECK STANDARD % RECOVERY CLP
DATE: 2/16/01
MATRIX__SOIL
AMOUNT SPIKED _50PPB
SAMPLE VOLUME: 5.0G
FILE ID : P17712.D
INST. ID: H5970-3

COMPOUND NAME	ADD. UG/L	UG/L	%REC	LCL	UCL	#
Chloromethane	50	49	98	33	149	
Bromomethane	50	32	64	58	144	
Vinyl Chloride	50	38	75	20	164	
Chloroethane	50	39	78	33	153	
Methylene Chloride	50	49	99	46	157	
Acetone	50	45	90	50	187	
Carbon Disulfide	50	39	78	52	143	
1,1-Dichloroethene	50	38	77	65	142	
1,1-Dichloroethane	50	41	83	67	141	
1,2-Dichloroethene(total)	100	84	84	57	150	
2-Butanone	50	42	84	68	162	
Chloroform	50	43	86	65	140	
1,2-Dichloroethane	50	44	88	78	147	
1,1,1-Trichloroethane	50	40	80	70	127	
Carbon Tetrachloride	50	38	76	60	136	
Bromodichloromethane	50	43	86	81	137	
1,2-Dichloropropane	50	44	87	78	132	
cis-1,3-Dichloropropene	50	43	86	72	131	
Trichloroethene	50	42	84	71	145	
Benzene	50	42	84	82	142	
Dibromochloromethane	50	43	85	59	136	
trans-1,3-Dichloropropene	50	45	89	80	147	
1,1,2-Trichloroethane	50	43	86	81	139	
Bromoform	50	41	83	64	142	
4-Methyl-2-Pentanone	50	46	93	59	170	
2-Hexanone	50	45	90	67	163	
Tetrachloroethene	50	41	82	72	144	
1,1,2,2-Tetrachloroethane	50	44	88	83	152	
Toluene	50	45	90	85	129	
Chlorobenzene	50	44	88	58	128	
Ethylbenzene	50	43	87	68	149	
Styrene	50	43	86	63	126	
Xylene(total)	50	124	83	59	132	

! Column to be used to flag values outside QC limits with an asterik.

S 0052

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2/16/01

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Lab File ID: P17709.D Lab Sample ID: VBLK2/16/01

Date Analyzed: 02/16/01 Time Analyzed: 14:13

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: H5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB2/16/01	LFB2/16/01	P17712.D	16:16
02	SB-17-0102	0102369-002A	P17714.D	17:17
03	SB-17-0203	0102369-003A	P17715.D	17:47
04	SB-18-0001	0102369-004A	P17718.D	19:17
05	SB-18-0203	0102369-005A	P17719.D	19:45
06	SB-18-0304	0102369-006A	P17720.D	20:14
07	SB-20-0001	0102369-007A	P17721.D	20:43
08	SB-20-0102	0102369-008A	P17722.D	21:11
09	SB-20-0202	0102369-009A	P17723.D	21:40
10	SB-21-0001	0102369-011A	P17725.D	22:37
11	SB-21-0102	0102369-012A	P17726.D	23:06
12	SB-22-0001	0102369-013A	P17727.D	23:35
13	SB-22-0102	0102369-014A	P17728.D	00:03
14	SB-22-0203	0102369-015A	P17729.D	00:32

COMMENTS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2/16/01

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: VBLK2/16/01

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17709.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene(total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2/16/01

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: VBLK2/16/01

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17709.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 02/16/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0056

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2/22/01

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Lab File ID: P17733.D Lab Sample ID: VBLK2/22/01

Date Analyzed: 02/22/01 Time Analyzed: 15:59

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: H5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MSB2/22/01	MSB2/22/01	P17734.D	16:31
02	SB-18-0001DL	0102369-004A	P17735.D	17:05
03	SB-20-0203	0102369-010A	P17737.D	18:07
04	SB-17-0001MS	0102369-001A MS	P17738.D	18:37
05	SB-17-0001MSD	0102369-001A MSD	P17739.D	19:08
06	SB-17-0001	0102369-001A	P17741.D	20:09

gpms 3/4/02

COMMENTS

S 0057

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2/22/01

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: VBLK2/22/01

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17733.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene(total)	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene(total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2/22/01

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES001

Matrix: (soil/water) SOIL Lab Sample ID: VBLK2/22/01

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P17733.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 02/22/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

0059

8. INTERNAL STANDARD AREA DATA

8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Lab File ID (Standard): P17708.D Date Analyzed: 02/16/01

Instrument ID: H5970-3 Time Analyzed: 13:29

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	86316	8.77	409870	9.85	327741	14.17
	UPPER LIMIT	172632	8.27	819740	9.35	655482	13.67
	LOWER LIMIT	43158	9.27	204935	10.35	163871	14.67
	EPA SAMPLE NO.						
01	VBLK2/16/01	99684	8.78	439302	9.85	348491	14.17
02	LFB2/16/01	90907	8.78	441046	9.85	338971	14.16
03	SB-17-0102	97053	8.77	425837	9.86	338407	14.15
04	SB-17-0203	94356	8.78	421302	9.86	346577	14.15
05	SB-18-0001	95539	8.76	430076	9.83	338800	14.14
06	SB-18-0203	99576	8.76	447361	9.83	345393	14.14
07	SB-18-0304	89660	8.76	424936	9.84	332699	14.13
08	SB-20-0001	92432	8.77	423490	9.84	344674	14.13
09	SB-20-0102	94777	8.78	427251	9.83	345205	14.14
10	SB-20-0202	94169	8.77	414885	9.84	343074	14.14
11	SB-21-0001	88149	8.76	402246	9.84	327775	14.14
12	SB-21-0102	87506	8.77	398628	9.85	326210	14.14
13	SB-22-0001	88039	8.76	406714	9.83	325842	14.15
14	SB-22-0102	85999	8.77	394163	9.84	326623	14.14
15	SB-22-0203	87520	8.77	396923	9.84	310094	14.15

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES001

Lab File ID (Standard): P17732.D Date Analyzed: 02/22/01

Instrument ID: H5970-3 Time Analyzed: 15:26

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	56206	8.74	250471	9.81	190886	14.13
	UPPER LIMIT	112412	8.24	500942	9.31	381772	13.63
	LOWER LIMIT	28103	9.24	125236	10.31	95443	14.63
	EPA SAMPLE NO.						
01	VBLK2/22/01	61303	8.73	284207	9.80	220395	14.12
02	MSB2/22/01	58908	8.73	269714	9.81	207477	14.14
03	SB-18-0001DL	63052	8.73	275920	9.80	212838	14.12
04	SB-20-0203	60881	8.73	279304	9.80	214696	14.13
05	SB-17-0001MS	57796	8.73	269176	9.81	203893	14.12
06	SB-17-0001MSD	53774	8.74	263023	9.81	199219	14.13
07	SB-17-0001	58687	8.74	269454	9.81	204274	14.13

BD
2/27/01

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

S 0062

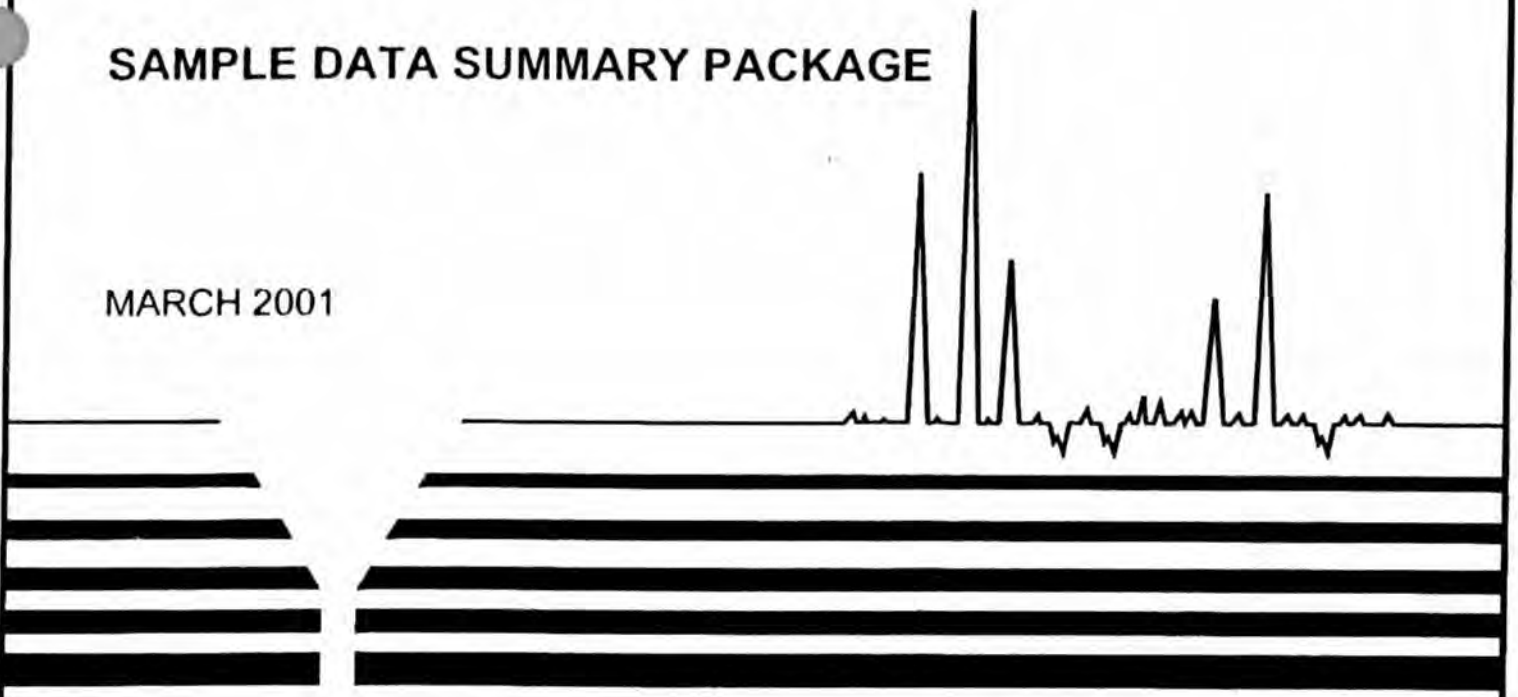
Analytical Data Package For

VERTEX ENGINEERING
SDG NO: VES002

Water Samples
Received: 3/29/01

SAMPLE DATA SUMMARY PACKAGE

MARCH 2001



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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SAMPLES RECEIVED: 3/29/01
SDG NO.: VES002

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   8.1 VOLATILES

H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
WATER SAMPLES
SDG NO.: VES002
SAMPLES RECEIVED: 3/29/01

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PEST/ PCB	*METALS	OTHER
GW-05B	0103788-001	X					
GW-06B	0103788-002	X					
GW-07	0103788-003	X					
RB032801	0103788-004	X					
TB032801	0103788-005	X					

* Check Appropriate Boxes
* CLP (Non-CLP (Please indicate year of protocol) 1995
* TCL/TAL, HCL, TS

VES002 S 3

Volatile Sample Analysis Summary

Sample ID	Matrix	Date Collected	Date Received	Level	Date Analyzed
GW-05B	water	3/28/2001	3/29/2001	LOW	4/2/2001
GW-06B	water	3/28/2001	3/29/2001	LOW	4/2/2001
GW-07	water	3/28/2001	3/29/2001	LOW	4/2/2001
RB-032801	water	3/28/2001	3/29/2001	LOW	4/2/2001
TB-032801	water	3/28/2001	3/29/2001	LOW	4/2/2001

H2M LABS, INC.

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

2048

EXTERNAL CHAIN OF CUSTODY

CLIENT: (Vertex) VES

H2M SDG NO: VES002

PROJECT NAME/NUMBER: CAMMEL SHOP-RITE CENTER

SAMPLERS: (signature)/Client: JON KLINK / VERTEX
JULIE FOLEY - CONTACT (CELL # (917) 843-9824)

DELIVERABLES: Category B (BS-70)

TURNAROUND TIME: 5 DAY TAT ~~10 Day Turn~~ / 14 Day Package

NOTES: 8260_TCL-W + MTBE .SEL
font: (7)

Project Contact:

Phone Number:

Sample Container Description: 40ml vial w/ HCl

ANALYSIS REQUESTED

	DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
2	3/28/01	1100	WATER	GW-06B	2	2					0703788-002	REMOVED HCL FROM
3		1110		GW-07	1	1					-003	ALL SAMPLE VOAS
4		1220		RB032801	2	2					-004	EXCEPT THE TRIP
5		—		TB032801	2	2					-005	BLANK
1		1230		GW-05B	2	2					-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	3/28/01	1330	[signature]	5/29/01	9:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VES002_S_6

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

VES002

H2M Labs, Inc.

Sample Receipt Checklist

Client Name: VES

Date and Time Received: 3/29/01 9:15:00 AM

Work Order Number 0103788

Received by: DLF

Checklist completed by: Signature 3/29/01 Date

Reviewed by: KEB Initials 3/29/01 Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.4°C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

VES002 S 7

H2M LABS, INC.

SAMPLE RECEIPT NON-COMPLIANCE REPORT
H2M LABS, INC.

Client: VES SDG #: VES002

Date of Sample Receipt: 3-29-01 Received By: DLF

Problems with Samples:

____ 1. Insufficient quantity received for proper analysis.
____ 2. Sample received broken or leaking.
____ 3. Sample received improperly preserved.
____ 4. Sample received in improper container.
____ 5. Holding time exceeded at receipt.
____ 6. Sample I.D.
____ 7. Multi-layer sample
____ 8. No MS/MSD designated.
____ 9. Sample received out of temp. specs (4°C +/-2°). Recorded temperature _____°C
① ✓ 10. Other no spare sample for GW-07

Problems with Chain of Custody (COC):

____ 1. Sample received without COC form.
____ 2. Custody tape broken.
____ 3. COC form not relinquished by client.
____ 4. COC form not properly signed by client.
____ 5. Sample information on container does not match sample information on COC form.
____ 6. Other_____

Notes:
② There was no COC TAPE on outer part of cooler

Contact: Julie Foley

Notification procedure: ___ phone ___ fax ___ writing ___ e-mail ___ other

Notified By:_____ **Date/Time:**_____

Corrective Action: Needs GW action level limits for all except 0.7 for Benzene Made SGL

Knows no spare vial for GW07

VES002 S 8

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

14 day Package

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 5 day verbals

SDG #: VES002 CASE #: _____ MATRIX: GW pH CHECK Y or N

REMARKS: _____

RECEIVED BY: DLf SIGNATURE: _____ DATE: 3/29/01 TIME: 9:15

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	GW-05B	0103788-001A	3-28-01	D	2	8260_TCL_W + MTBE SEL
2	GW-06B	002A			2	
3	GW-07	003A			1	* NO SPARE
4	RB032801	004A			2	
5	TB032801	005A		D_H	2	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

DLf 3-29-01

VES002 S 9

H2M LABS, INC.

CLIENT: VES

SDG #: VES002

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
3/29/01	12:00	SIGN	SIGN	D, DH	ANALYSIS	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN	

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 3/29/01
SDG #: VES002

For Samples:

GW-05B
GW-06B
GW-07
RB032801
TB032801

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260 for a select list of volatile organic analytes.

No MS/MSD spike was requested for this SDG. Recoveries for a lab fortified blank (LFB), analyzed in the same batch, showed good method efficiency.

All quality control and calibration requirements were met.

The calibration for benzene was extrapolated to the requested reporting limit of 0.7 µg/L and 5 µg/L for all other analytes.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: April 9, 2001

****
* *
* *
****
Ursula Middel
Technical Manager

VESC02 S 17 DNP

H2M LABS, INC.

4. SAMPLE REPORTS
4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\% moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 - 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

X- Indicates that the amount of the total was determined by manual integration.

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GW-05B

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-001A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30323.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
1634-04-4	tert-butyl methyl ether	5	U
540-59-0	1,2-Dichloroethene(total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	0.7	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene(total)	5	U

SY 4/6/01

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-05B

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-001A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30323.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GW-06B

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-002A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30324.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
1634-04-4	tert-butyl methyl ether	5	U
540-59-0	1,2-Dichloroethene(total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	1	J
71-43-2	Benzene	0.7	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	15	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene(total)	5	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-002A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30324.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-003A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30325.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
1634-04-4	tert-butyl methyl ether	5	U
540-59-0	1,2-Dichloroethene(total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	1	J
71-43-2	Benzene	0.7	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	16	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene(total)	5	U

4/11/01

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-003A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30325.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

RB-032801

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-004A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30326.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
1634-04-4	tert-butyl methyl ether	5	U
540-59-0	1,2-Dichloroethene(total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	0.7	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene(total)	5	U

5/4/6/01

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB-032801

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-004A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30326.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-032801

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-005A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30327.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
1634-04-4	tert-butyl methyl ether	5	U
540-59-0	1,2-Dichloroethene(total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	0.7	U SV 4/6/01
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene(total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-032801

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: 0103788-005A

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30327.D

Level: (low/med) LOW Date Received: 03/29/01

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK4/2/01	93	104	91	0
02	LFB4/2/01	102	101	100	0
03	GW-05B	95	106	95	0
04	GW-06B	96	103	93	0
05	GW-07	93	106	95	0
06	RB-032801	95	104	94	0
07	TB-032801	95	104	93	0
08	VHBLK3/26	97	106	96	0

				QC LIMITS
SMC1	(DCE)	=	1,2-Dichloroethane-d4	(76-114)
SMC2	(TOL)	=	Toluene-d8	(88-110)
SMC3	(BFB)	=	4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

QC CHECK STANDARD % RECOVERY CLP
DATE: 4/2/2001
MATRIX__WATER
AMOUNT SPIKED _50PPB
SAMPLE VOLUME: 5ML
FILE ID : A30322.D
INST. ID: H5971

COMPOUND NAME	ADD UG/L	UG/L	%REC	UCL	LCL	#
Chloromethane	50	48	96	56	128	
Bromomethane	50	48	97	60	134	
Vinyl Chloride	50	46	92	48	137	
Chloroethane	50	46	92	64	124	
Methylene Chloride	50	51	102	76	114	
Acetone	50	36	72	31	171	
Carbon Disulfide	50	46	92	46	137	
1,1-Dichloroethene	50	46	91	58	129	
1,1-Dichloroethane	50	48	95	67	125	
tert-Butyl Methyl Ether	50	50	100	80	120	
trans-1,2-Dichloroethene	50	47	93	79	111	
cis-1,2-Dichloroethene	50	49	98	79	111	
1,2-Dichloroethene(total)	100	95	95	79	111	
2-Butanone	50	42	83	38	170	
Chloroform	50	49	97	75	113	
1,2-Dichloroethane	50	50	100	79	111	
1,1,1-Trichloroethane	50	46	93	69	118	
Carbon Tetrachloride	50	45	90	62	124	
Bromodichloromethane	50	48	96	80	109	
1,2-Dichloropropane	50	48	95	80	111	
cis-1,3-Dichloropropene	50	49	97	77	111	
Trichloroethene	50	46	92	69	118	
Benzene	50	47	93	73	115	
Dibromochloromethane	50	49	97	80	109	
trans-1,3-Dichloropropene	50	48	95	79	109	
1,1,2-Trichloroethane	50	48	97	81	110	
Bromoform	50	48	96	74	116	
4-Methyl-2-pentanone	50	48	96	68	118	
2-Hexanone	50	42	85	42	169	
Tetrachloroethene	50	44	87	59	124	
1,1,2,2-Tetrachloroethane	50	49	99	75	116	
Toluene	50	46	92	71	115	
Chlorobenzene	50	47	93	74	113	
Ethylbenzene	50	44	87	58	149	
Styrene	100	46	92	68	118	
m,p-Xylene	50	90	90	67	118	
o-Xylene	50	45	90	67	118	
Xylene(total)	150	142	95	67	118	

*-value outside of QC limits.

Column to be used to flag values outside QC limits with an asterik.

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4/2/01

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Lab File ID: A30321.D Lab Sample ID: VBLK4/2/01

Date Analyzed: 04/02/01 Time Analyzed: 14:24

GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: H5971

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB4/2/01	LFB4/2/01	A30322.D	14:59
02	GW-05B	0103788-001A	A30323.D	15:25
03	GW-06B	0103788-002A	A30324.D	15:50
04	GW-07	0103788-003A	A30325.D	16:15
05	RB-032801	0103788-004A	A30326.D	16:40
06	TB-032801	0103788-005A	A30327.D	17:05
07	VHBLK3/26	VHBLK3/26/01	A30332.D	19:11

COMMENTS

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4/2/01

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: VBLK4/2/01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30321.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
1634-04-4	tert-butyl methyl ether	5	U
540-59-0	1,2-Dichloroethene(total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	0.7	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene(total)	5	U

SY 4/6/01

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK4/2/01

Lab Name: H2M LABS, INC Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: VES002

Matrix: (soil/water) WATER Lab Sample ID: VBLK4/2/01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A30321.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/02/01

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

H2M LABS, INC.

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC Contract:

Lab Code: 10478 Case No.: SAS No.: SDG No.: VES002

Lab File ID (Standard): A30320.D Date Analyzed: 04/02/01

Instrument ID: H5971 Time Analyzed: 13:48

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	70112	8.79	408370	9.68	334559	14.03
	UPPER LIMIT	140224	8.29	816740	9.18	669118	13.53
	LOWER LIMIT	35056	9.29	204185	10.18	167280	14.53
	EPA SAMPLE NO.						
01	VBLK4/2/01	68593	8.81	397735	9.69	310952	14.03
02	LFB4/2/01	67729	8.78	401654	9.67	328100	14.02
03	GW-05B	66282	8.75	393098	9.64	303571	14.00
04	GW-06B	65699	8.78	385904	9.67	305769	14.01
05	GW-07	67312	8.71	387078	9.61	301059	13.99
06	RB-032801	66806	8.70	387008	9.61	303083	13.98
07	TB-032801	64808	8.75	373686	9.65	292814	14.00
08	VHBLK3/26	62298	8.67	357562	9.58	281213	13.96

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

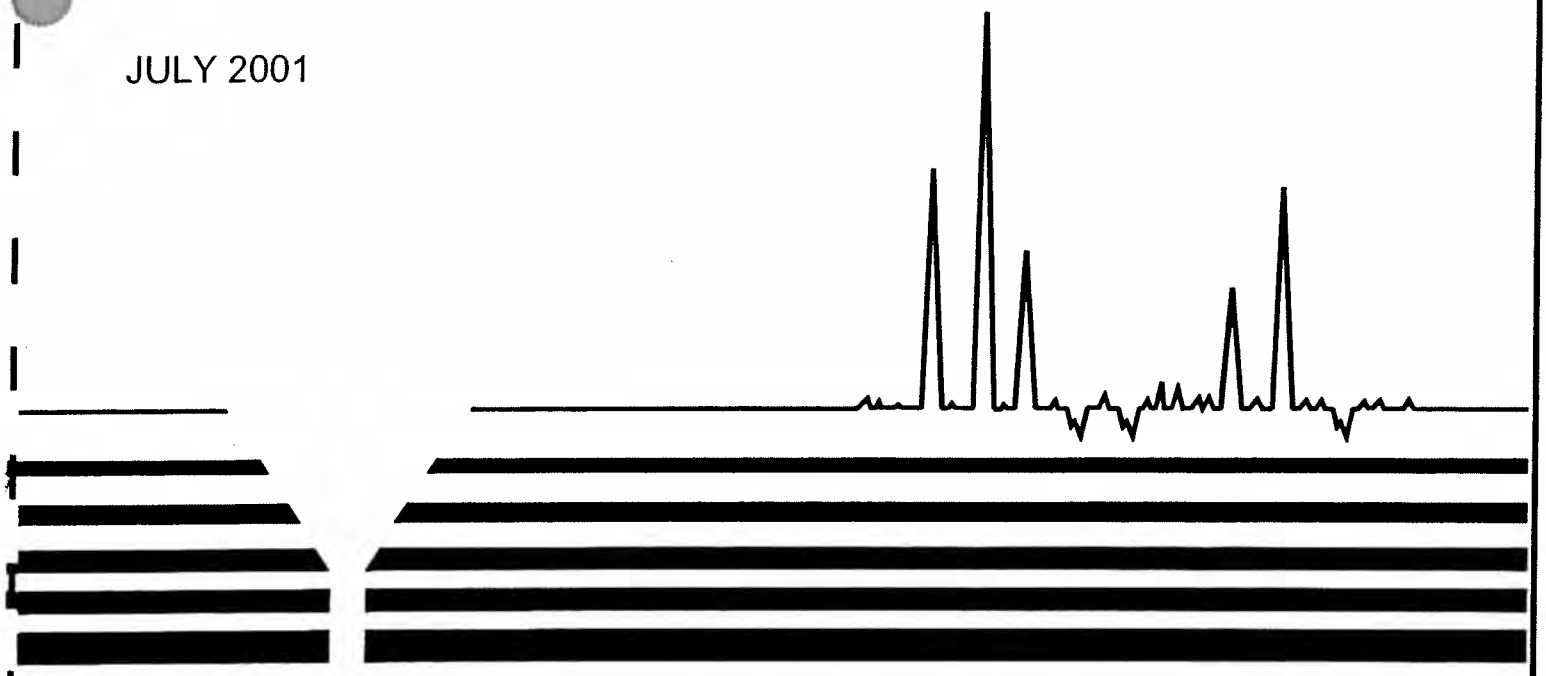
Analytical Data Package For

VERTEX
CARMEL – PROJECT #2538
SDG: VES002

SOIL SAMPLES
DATE RECEIVED: JULY 2, 2001

SAMPLE DATA SUMMARY PACKAGE

JULY 2001



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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VERTEX
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PROJECT NO.: 2538
DATE RECEIVED: 07/02/01
SDG NO.: VES002

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1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
VERTEX
PROJECT: CARMEL
PROJECT NO.: 2538
SAMPLES RECEIVED: 07/03/01
SDG NO.: VES002

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	OTHER
SB-L-1	0107017-001	X					
SB-L-2	0107017-002	X					
SB-L-3	0107017-003	X					
SB-L-4	0107017-004	X					
SB-L-5 MS/MSD	0107017-005	X					

* Check Appropriate Boxes
* CLP, ~~Non-CLP~~ (Please indicate year of protocol) OSP B 10/95
* TCL/~~TAL~~, HSL, Priority Pollutant VOA only

S 0003

Sample Analysis Summary

EPAsampID	Matrix	CollectDate	DateReceived	Level	AnalDate
SB-L-1	SOIL	02-Jul-01	03-Jul-01	LOW	10-Jul-01
SB-L-2	SOIL	02-Jul-01	03-Jul-01	LOW	09-Jul-01
SB-L-3	SOIL	02-Jul-01	03-Jul-01	LOW	09-Jul-01
SB-L-4	SOIL	02-Jul-01	03-Jul-01	LOW	09-Jul-01
SB-L-5	SOIL	02-Jul-01	03-Jul-01	LOW	09-Jul-01
SB-L-5MS	SOIL	02-Jul-01	03-Jul-01	LOW	09-Jul-01
SB-L-5MSD	SOIL	02-Jul-01	03-Jul-01	LOW	09-Jul-01

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

2950

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: Vertex (VES) | **H2M SDG NO:**

PROJECT NAME/NUMBER: Carmel - 2538

SAMPLERS: (signature)/Client: Julie Foley/Vertex, Gerry Hickson

DELIVERABLES: NYSDEC ASP Cat. B

TURNAROUND TIME: 21 DAYS

NOTES: Soils TCL VOCs + MTBE

Project Contact:

Phone Number:

Sample Container Description: 2 oz jar | 40 ml vial HCl

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	ORGANIC: VOA	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
7/2	11Bam	S	MS/MSD (SB-L-5)	~~3~~ 3	~~3~~ 3							MS/MSD also
7/2	9am	S	SB-L-1	2	2							
	9:30	S	SB-L-2		2							
	10:0	S	SB-L-3		2							
	11:0	S	SB-L-4		2							
					2			2				Field Blank
7/2	1Bam	S	SB-L-5	2	2							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	7/2	2:00	Kathy Hellekes	7/2	2:00
Kathy Hellekes	7/2	2:00	William H. Rau	7/2/01	1400
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain: _____

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

0006

WHITE COPY - ORIGINAL | YELLOW COPY - CLIENT | PINK COPY - LABORATORY

H2M Labs, Inc.

Sample Receipt Checklist

Client Name: VES | Date and Time Received: 7/2/01 2:00:00 PM

Work Order Number 0107017 | Received by: WR

Checklist completed by: William H. Ram 7/2/01 (Signature / Date) | Reviewed by: KEA 7/3/01 (Initials / Date)

Matrix: | Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: ~~Break in Chain of Custody~~; MS/MSD was not designated w/ID; No time of collection indicated; Samples received ambient 22.0°C.

Corrective Action: SB-L-5 is MS/MSD sample, Times of collection transcribed from point. Samples transported directly from field with frozen bottled water in cooler which were removed upon receipt.

S 0007

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 21 DAYS

SDG #: VES002 CASE #: _____ MATRIX: Soil pH CHECK Y or N

REMARKS: Carmel - Project # 2538

RECEIVED BY: WHR SIGNATURE: William H. Rau DATE: 7/3/01 TIME: 1015

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	SB-L-1	0107017-001A	7/2/01	A	1 8	ASPB5-8260_S 5030MS_S
2	SB-L-2	0107017-002A	↓	↓	8	↓
3	SB-L-3	0107017-003A			8	
4	SB-L-4	0107017-004A			8	
5	SB-L-5 MS/MSD	0107017-005A	↓	↓	3 5 WHR 7/3/01	↓
6						
8						
9						
10						
11						
12						
13			7/3/01			
14						
15		WHR				
16						
17						
18						
19						

P 0187
S 0008

H2M LABS, INC.

CLIENT: VES

SDG #: VES002

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
7/3/0	1030	SIGN William H. Rau	SIGN	A	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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S 0009

P 0183

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 7/3/01
SDG #: VES002

For Samples:

SB-L-1
SB-L-2
SB-L-3
SB-L-4
SB-L-5

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for a select list of volatile organic analytes.

All quality control requirements were met with the following exception:
Toluene and styrene recoveries for the lab fortified blank (LFB) were just under the QC limits.

The calibrations met the acceptance criteria of the protocol. The following should be noted: The RPD in the initial calibration exceeded 20.5% for tetrachloroethene and ethylbenzene. (2 exceptions are allowed.)

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: August 1, 2001

****
* *
* *
****

Ursula Middel
Technical Manager

4. SAMPLE REPORTS

4.1 VOLATILES

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\%moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 - 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

X- Indicates that the amount of the total was determined by manual integration.

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-1

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18502.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 5 Date Analyzed: 07/10/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	2	BJ U
67-64-1	Acetone	11	U
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U J

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-1

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18502.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 5 Date Analyzed: 07/10/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

S 0016

1F

EPA SAMPLE NO.

SB-L-1

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18502.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 5 Date Analyzed: 07/10/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-2

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18469.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 7.6 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	3	BJ U
67-64-1	Acetone	15	
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	45	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-2

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18469.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 7.6 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

1F

EPA SAMPLE NO.

SB-L-2

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18469.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 7.6 Date Analyzed: 07/09/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-L-3

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18470.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 8.8 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	3	BJ U
67-64-1	Acetone	11	U
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	18	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-3

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18470.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 8.8 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

S 0022

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SB-L-3

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18470.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 8.8 Date Analyzed: 07/09/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-4

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18471.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 7.7 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	3	BJU
67-64-1	Acetone	11	U
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-4

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18471.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 7.7 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

S 0025

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SB-L-4

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18471.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 7.7 Date Analyzed: 07/09/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-5

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18472.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 9.2 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	3	BJ U
67-64-1	Acetone	15	
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	15	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-L-5

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18472.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 9.2 Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

1F

EPA SAMPLE NO.

SB-L-5

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES002

Matrix: (soil/water) SOIL Lab Sample ID: 0107017-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18472.D

Level: (low/med) LOW Date Received: 07/02/01

% Moisture: not dec. 9.2 Date Analyzed: 07/09/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by SDG No.: VES002

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	Other	TOT OUT
01	VBLK070901	106	92	110		0
02	~~VBLK070901~~	~~106~~	~~92~~	~~110~~		~~0~~
03	MSB070901	102	96	98		0
04	~~MSB070901~~	~~102~~	~~96~~	~~98~~		~~0~~
05	SB-L-2	115	102	91		0
06	SB-L-3	104	98	102		0
07	SB-L-4	107	100	102		0
08	SB-L-5	107	98	96		0
09	SB-L-5MS	109	105	87		0
10	SB-L-5MSD	104	104	91		0
11	VBLK071001	116	108	86		0
12	~~VBLK071001~~	~~116~~	~~108~~	~~86~~		~~0~~
13	LFB071001	100	98	108		0
14	~~LFB071001~~	~~100~~	~~98~~	~~108~~		~~0~~
15	SB-L-1	111	106	85		0
16	VHBLK	116	112	86		0
17	~~VHBLK~~	~~116~~	~~112~~	~~86~~		~~0~~

BD 7/25/07

			QC Limits
SMC 1	(DCE)	= 1,2-Dichloroethane-d4	(70-121)
SMC 2	(TOL)	= Toluene-d8	(84-138)
SMC 3	(BFB)	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced SDG No.: VES002

Matrix Spike - EPA Sample No.: SB-L-5 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	55	0	47	85	59-172
Trichloroethene	55	0	51	93	62-137
Benzene	55	0	46	84	66-142
Toluene	55	0	62	113	59-139
Chlorobenzene	55	0	60	109	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	55	45	82	4	22	59-172
Trichloroethene	55	50	91	2	24	62-137
Benzene	55	46	84	0	21	66-142
Toluene	55	59	107	5	21	59-139
Chlorobenzene	55	60	109	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES002

Sample ID MSB070901 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	40	80	59-172
Trichloroethene	50	0	45	90	62-137
Benzene	50	0	41	82	66-142
Toluene	50	0	49	98	59-139
Chlorobenzene	50	0	53	106	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

3A

~~SYSTEM MONITORING~~ SPIKE RECOVERY

5/1/01

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES002

Sample ID LFB071001 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	53	106	33-149
Bromomethane	50	0	46	92	58-144
Vinyl chloride	50	0	45	90	20-164
Chloroethane	50	0	43	86	33-153
Methylene chloride	50	3	38	70	46-157
Acetone	50	0	44	88	50-187
1,1-Dichloroethene	50	0	39	78	65-142
Carbon disulfide	50	0	39	78	52-143
1,1-Dichloroethane	50	0	44	88	67-141
1,2-Dichloroethene (total)	100	0	82	82	57-150
Chloroform	50	0	43	86	68-140
1,2-Dichloroethane	50	0	42	84	65-147
2-Butanone	50	0	39	78	30-226
1,1,1-Trichloroethane	50	0	41	82	78-127
Carbon tetrachloride	50	0	42	84	70-136
Bromodichloromethane	50	0	46	92	78-137
1,2-Dichloropropane	50	0	43	86	81-132
cis-1,3-Dichloropropene	50	0	43	86	78-131
Trichloroethene	50	0	43	86	72-145
Dibromochloromethane	50	0	46	92	82-136
1,1,2-Trichloroethane	50	0	45	90	80-139
Benzene	50	0	43	86	71-142
trans-1,3-Dichloropropene	50	0	44	88	59-147
Bromoform	50	0	52	104	81-142
4-Methyl-2-pentanone	50	0	42	84	64-170
2-Hexanone	50	0	34	68	59-163
Tetrachloroethene	50	0	40	80	67-144
1,1,2,2-Tetrachloroethane	50	0	52	104	72-152
Toluene	50	0	41	82*	83-129
Chlorobenzene	50	0	43	86	85-128

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 33 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES002

Sample ID LFB071001 Level:(low/med) LOW

Ethylbenzene	50	0	41	82	80-129
Styrene	50	0	42	84*	85-126
Xylene (total)	150	0	120	80	79-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 33 outside limits

COMMENTS: _____

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK070901

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES002

Lab File ID: A\P18465.D Lab Sample ID: VBLK070901

Date Analyzed: 07/09/01 Time Analyzed: 13:33

GC Column: RTX-50 ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MSB070901	MSB070901	A\P18467.D	14:39
02	SB-L-2	0107017-002A	A\P18469.D	15:41
03	SB-L-3	0107017-003A	A\P18470.D	16:12
04	SB-L-4	0107017-004A	A\P18471.D	16:42
05	SB-L-5	0107017-005A	A\P18472.D	17:14
06	SB-L-5MS	0107017-005AMS	A\P18473.D	17:44
07	SB-L-5MSD	0107017-005AMSD	A\P18474.D	18:16

COMMENTS: _____

_____

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK070901

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: VBLK070901

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18465.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	2	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK070901

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: VBLK070901

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18465.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/09/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK070901

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES002

Matrix: (soil/water) SOIL Lab Sample ID: VBLK070901

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18465.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/09/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK071001

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES002

Lab File ID: A\P18491.D Lab Sample ID: VBLK071001

Date Analyzed: 07/10/01 Time Analyzed: 12:08

GC Column: RTX-50 ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB071001	LFB071001	A\P18492.D	12:42
02	SB-L-1	0107017-001A	A\P18502.D	18:03
03	VHBLK	VHBLK	A\P18504.D	19:04

COMMENTS: _____

_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071001

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: VBLK071001

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18491.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/10/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	3	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071001

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES002

Matrix: (soil/water) SOIL Lab Sample ID: VBLK071001

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18491.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/10/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

VBLK071001

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES002

Matrix: (soil/water) SOIL Lab Sample ID: VBLK071001

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P18491.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/10/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No._____ SDG No.: VES002

Lab File ID (Standard): A\P18464.D Date Analyzed: 07/09/01

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 13:01

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: RTX-50 ID: .53 (mm)

		IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	101052	8.52	359585	9.6	351840	13.97
	UPPER LIMIT	202104	9.02	719170	10.1	703680	14.47
	LOWER LIMIT	50526	8.02	179793	9.1	175920	13.47
	EPA SAMPLE						
01	VBLK070901	115830	8.53	369358	9.61	376984	13.96
02	MSB070901	107257	8.54	413346	9.61	402265	13.96
03	SB-L-2	139920	8.54	549258	9.59	480005	13.96
04	SB-L-3	129134	8.54	462181	9.59	418871	13.96
05	SB-L-4	115470	8.53	416604	9.59	391814	13.94
06	SB-L-5	114734	8.52	408976	9.60	390711	13.94
07	SB-L-5MS	118136	8.53	489818	9.59	437301	13.95
08	SB-L-5MSD	108989	8.52	443936	9.60	405059	13.94

IS1 = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES002

Lab File ID (Standard): A\P18489.D Date Analyzed: 07/10/01

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 11:02

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: RTX-50 ID: .53 (mm)

		IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	82291	8.53	262678	9.6	277605	13.96
	UPPER LIMIT	164582	9.03	525356	10.1	555210	14.46
	LOWER LIMIT	41146	8.03	131339	9.1	138803	13.46
	EPA SAMPLE						
01	VBLK071001	115627	8.54	401108	9.62	385886	13.97
02	LFB071001	68158	8.54	193571	9.61	222451	13.97
03	SB-L-1	94025	8.54	339191	9.61	336115	13.95
04	VHBLK	107244	8.54	391594	9.62	358295	13.95

IS1 = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

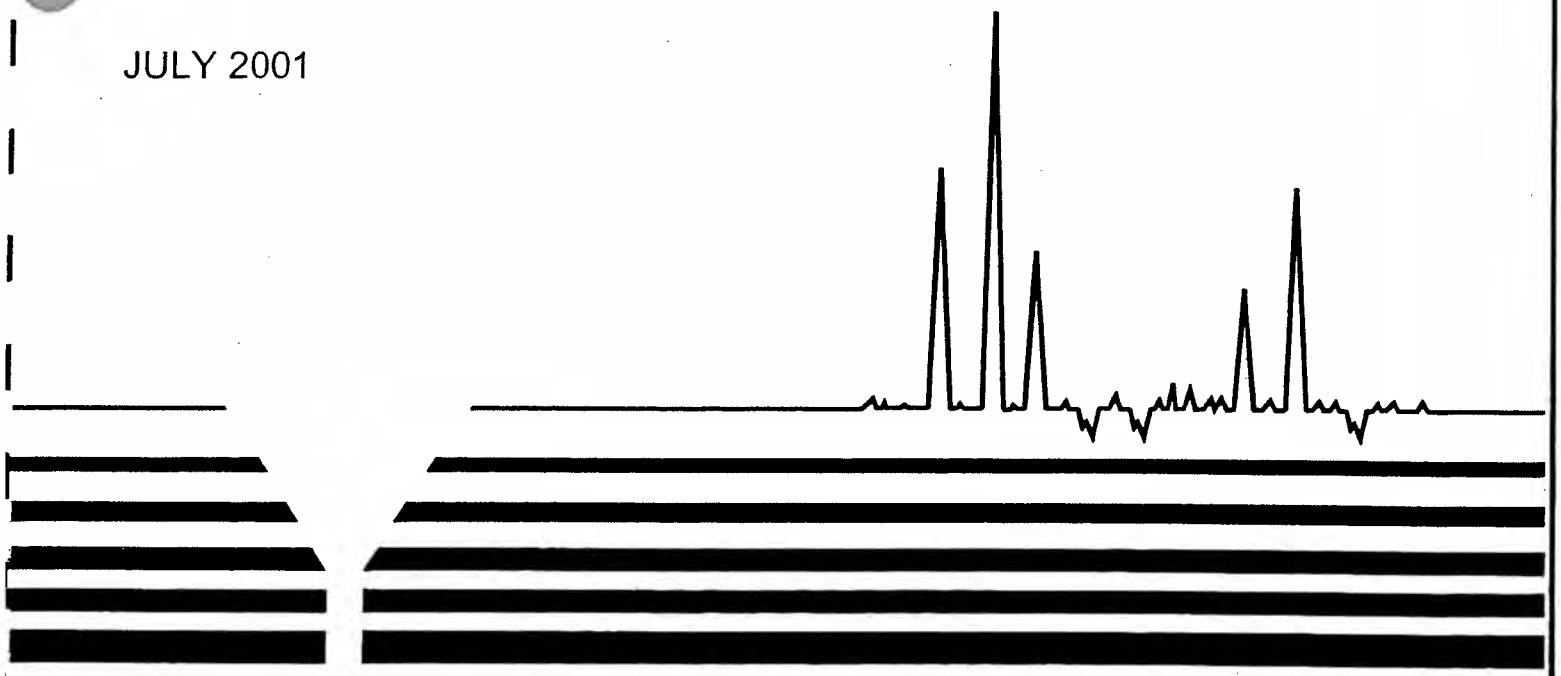
Analytical Data Package For

VERTEX
CARMEL – PROJECT #2538
SDG: VES003

WATER SAMPLES
DATE RECEIVED: JULY 12, 2001

SAMPLE DATA SUMMARY PACKAGE

JULY 2001



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

SAMPLE DATA SUMMARY PACKAGE

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PROJECT NO.: 2538
DATE RECEIVED: 07/12/01
SDG NO.: VES003

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1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
VERTEX
PROJECT: CARMEL
PROJECT NO.: 2538
SAMPLES RECEIVED: 07/12/01
SDG NO.: VES003

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	OTHER
GW-01	0107320-001	X					
GW-02	0107320-002	X					
GW-03	0107320-003	X					
GW-04B	0107320-004	X					
GW-05B MS/MSD	0107320-005	X					
GW-06B	0107320-006	X					
GW-07B	0107320-007	X					
RB071101	0107320-008	X					
TB071101	0107320-009	X					

* Check Appropriate Boxes
* CLP, Non-CLP (Please indicate year of protocol) ASP B 10/95
* TCL/TAL, HSL, Priority Pollutant VOA only

Sample Analysis Summary

EPAsampID	Matrix	CollectDate	DateReceived	Level	AnalDate
GW-01	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-02	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-03	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-04B	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-04BDL	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-05B	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-05BMS	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-05BMSD	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-06B	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
GW-07B	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
RB071101	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01
TB071101	WATER	11-Jul-01	12-Jul-01	LOW	19-Jul-01

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

575 Broadhollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

2949

EXTERNAL CHAIN OF CUSTODY

CLIENT: Vertex (VES)

H2M SDG NO:

PROJECT NAME/NUMBER: Carmel - 2538

SAMPLERS: (signature)/Client: [signature] / VERTEX

DELIVERABLES: NYSDEC ASP Cat B

TURNAROUND TIME: 21 DAYS

NOTES: Water TCL VOCs + MTBE

ASPB5-8260_W

Ship overnight AM to Jon Klink as per Gerry Hickson - bill overnight ship. cost to job. KED 7/9/01

Project Contact:

Phone Number:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: 40 ml Vial - HCl (8260 + MTBE)	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
7/11/01	1345	WATER	GW-05B	6	6							MS/MSD also
	1020		GW-01	2	2							
	1045		GW-02		2							
	1515		GW-03		2							
	1540		GW-04B		2							
	1240		GW-06B	1	1							BROKE IN FIELD
	1255		GW-07B		2							
					2							
7/11/01	0945	WATER	RB071101	2	2							Field Blank
7/11/01	—	WATER	TB071101	2	2							Trip Blank

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	7/11/01	1300	[signature]	7/11/01	0730
[signature]	7/11/01	1645	FED EX (JK)	7/11/01	1645

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

9000 S

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M Labs, Inc.

Sample Receipt Checklist

Client Name: VES

Date and Time Received: 7/12/01

Work Order Number 0107320

Received by: WR

Checklist completed by: William H. Rau 7/12/01 (Signature / Date)

Reviewed by: KEK 7/12/01 (Initials / Date)

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	2.4°C
Cooler/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: Sample GW-06B ONE VIAL (SPARE BROKE IN FIELD)

Corrective Action: _____

S 0007

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 21 DAYS

SDG #: VES 003 CASE #: _____ MATRIX: AQUEOUS pH CHECK Y or (N)

REMARKS: Carmel Project # 2538

RECEIVED BY: WHR SIGNATURE: William A Rau DATE: 7/12/01 TIME: 1030

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	GW-01	0107320-001A	7/11/01	DH	2	ASPB5-8260_W
2	GW-02	0107320 002A	↓	↓	↓	↓
3	GW-03	0107320 003A	↓	↓	↓	↓
4	GW-04B	0107320 004A	↓	↓	↓	↓
5	GW-05B MS/MSD	0107320 005A	↓	↓	6	↓
6	GW-06B	0107320 006A	↓	↓	1	↓
7	GW-07B	0107320 007A	↓	↓	2	↓
8	RB071101	0107320 008A	↓	↓	↓	↓
9	TB071101	0107320 009A	↓	↓	↓	↓
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

WHR 7/12/01

S 0008 P 0226

H2M LABS, INC.

CLIENT: VES

SDG #: VES 003

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
7/12/01	1030	SIGN William H. Rau	SIGN	DH	ANALYSIS	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 7/12/01
SDG #: VES003

For Samples:

GW-01	GW-06B
GW-02	GW-07B
GW-03	RB071101
GW-04B	TB071101
GW-05B	

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for a select list of volatile organic analytes.

All QC data and the calibrations met the requirements of the protocol, and no problems were encountered with sample analysis.

Sample GW-04B was reanalyzed at a dilution, because the concentrations of tetrachloroethene exceeded the calibration range. Both sets of data are reported.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: August 2, 2001

****
* *
* *
****

Ursula Middel
Technical Manager

4. SAMPLE REPORTS

4.1 VOLATILES

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\% moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 - 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18541.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	70	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

5

S 0015

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18541.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0016

1F

EPA SAMPLE NO.

GW-01

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18541.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18543.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	24	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18543.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0019

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-02

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18543.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18544.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18544.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0022

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-03

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18544.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 2 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	6.76	280	NJ
2. 000994-05-8	Butane, 2-methoxy-2-methyl-	9.08	15	NJ

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18545.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1000	E
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

S 0024

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18545.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0025

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-04B

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18545.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04BDL

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18553.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene chloride	100	U
67-64-1	Acetone	100	U
75-35-4	1,1-Dichloroethene	100	U
75-15-0	Carbon disulfide	100	U
75-34-3	1,1-Dichloroethane	100	U
540-59-0	1,2-Dichloroethene (total)	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	970	D
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04BDL

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18553.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	100	U

S 0028

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-04BDL

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18553.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 10.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18546.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

S 0030

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18546.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0031

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-05B

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18546.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18549.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	37	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18549.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0034

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-06B

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18549.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18554.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	37	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07B

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18554.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0037

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-07B

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18554.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB071101

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18551.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB071101

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18551.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0040

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB071101

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18551.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB071101

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18552.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB071101

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18552.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

S 0043

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB071101

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: 0107320-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18552.D

Level: (low/med) LOW Date Received: 07/12/01

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES 003

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	Other	TOT OUT
01	VBLK071901	98	92	114		0
02	LFB071901	108	98	96		0
03	GW-01	110	102	100		0
04	MSB071901	98	98	102		0
05	GW-02	98	96	102		0
06	GW-03	108	102	104		0
07	GW-04B	108	102	102		0
08	GW-05B	104	96	106		0
09	GW-05BMS	104	100	108		0
10	GW-05BMSD	102	106	102		0
11	GW-06B	98	92	112		0
12	RB071101	108	104	102		0
13	TB071101	100	92	112		0
14	GW-04BDL	98	100	110		0
15	GW-07B	100	94	110		0

			QC Limits
SMC1	(DCE)	= 1,2-Dichloroethane-d4	(76-114)
SMC2	(TOL)	= Toluene-d8	(88-110)
SMC3	(BFB)	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES 003

Matrix Spike - EPA Sample No.: GW-05B

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	49	98	61-145
Trichloroethene	50	0	56	112	71-120
Benzene	50	0	45	90	76-127
Toluene	50	0	62	124	76-125
Chlorobenzene	50	0	62	124	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	47	94	4	14	61-145
Trichloroethene	50	56	112	0	14	71-120
Benzene	50	44	88	2	11	76-127
Toluene	50	60	120	3	13	76-125
Chlorobenzene	50	60	120	3	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES 003

Sample ID MSB071901 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	42	84	61-145
Trichloroethene	50	0	55	110	71-120
Benzene	50	0	44	88	76-127
Toluene	50	0	60	120	76-125
Chlorobenzene	50	0	61	122	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES 003

Sample ID LFB071901 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	43	86	70-114
Bromomethane	50	0	43	86	50-136
Vinyl chloride	50	0	41	82	66-117
Chloroethane	50	0	42	84	71-116
Methylene chloride	50	0	46	92	80-112
Acetone	50	0	47	94	71-125
1,1-Dichloroethene	50	0	40	80	67-120
Carbon disulfide	50	0	40	80	61-126
1,1-Dichloroethane	50	0	45	90	77-114
1,2-Dichloroethene (total)	100	0	86	86	78-128
Chloroform	50	0	45	90	75-119
1,2-Dichloroethane	50	0	53	106	76-120
2-Butanone	50	0	45	90	74-121
1,1,1-Trichloroethane	50	0	36	72	66-126
Carbon tetrachloride	50	0	38	76	64-126
Bromodichloromethane	50	0	48	96	78-118
1,2-Dichloropropane	50	0	48	96	81-115
cis-1,3-Dichloropropene	50	0	48	96	79-116
Trichloroethene	50	0	46	92	72-121
Dibromochloromethane	50	0	49	98	75-125
1,1,2-Trichloroethane	50	0	51	102	82-116
Benzene	50	0	41	82	77-116
trans-1,3-Dichloropropene	50	0	48	96	77-120
Bromoform	50	0	48	96	75-121
4-Methyl-2-pentanone	50	0	50	100	79-121
2-Hexanone	50	0	51	102	76-119
Tetrachloroethene	50	0	53	106	59-133
1,1,2,2-Tetrachloroethane	50	0	47	94	77-120
Toluene	50	0	45	90	70-125
Chlorobenzene	50	0	48	96	72-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 33 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES 003

Sample ID LFB071901 Level: (low/med) LOW

Ethylbenzene	50	0	51	102	68-128
Styrene	50	0	49	98	72-124
Xylene (total)	150	0	150	100	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 33 outside limits

COMMENTS: _____

7. BLANK SUMMARY DATA AND RESULTS
7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK071901

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. SDG No.: VES 003

Lab File ID: A\P18538.D Lab Sample ID: VBLK071901

Date Analyzed: 07/19/01 Time Analyzed: 12:10

GC Column: RTX-50 ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB071901	LFB071901	A\P18540.D	13:10
02	GW-01	0107320-001A	A\P18541.D	13:39
03	MSB071901	MSB071901	A\P18542.D	14:08
04	GW-02	0107320-002A	A\P18543.D	14:37
05	GW-03	0107320-003A	A\P18544.D	15:06
06	GW-04B	0107320-004A	A\P18545.D	15:34
07	GW-05B	0107320-005A	A\P18546.D	16:03
08	GW-05BMS	0107320-005AMS	A\P18547.D	16:31
09	GW-05BMSD	0107320-005AMSD	A\P18548.D	16:59
10	GW-06B	0107320-006A	A\P18549.D	17:26
11	RB071101	0107320-008A	A\P18551.D	18:21
12	TB071101	0107320-009A	A\P18552.D	18:49
13	GW-04BDL	0107320-004ADL	A\P18553.D	19:16
14	GW-07B	0107320-007A	A\P18554.D	19:43

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071901

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: VBLK071901

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18538.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071901

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES 003

Matrix: (soil/water) WATER Lab Sample ID: VBLK071901

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18538.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column: RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK071901

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES 003

Matrix: (soil/water) WATER Lab Sample ID: VBLK071901

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\P18538.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/19/01

GC Column RTX-502.2 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. Priced b SDG No.: VES 003

Lab File ID (Standard): A\P18537.D Date Analyzed: 07/19/01

EPA Sample No. (VSTD050##): VSTD050 Time Analyzed: 11:37

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: RTX-50 ID: .53 (mm)

		IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	260622	8.56	773529	9.63	708261	13.96
	UPPER LIMIT	521244	9.06	1547058	10.13	1416522	14.46
	LOWER LIMIT	130311	8.06	386765	9.13	354131	13.46
	EPA SAMPLE						
01	VBLK071901	175156	8.56	597247	9.64	618404	13.95
02	LFB071901	206652	8.55	766202	9.63	710587	13.96
03	GW-01	207205	8.57	810606	9.63	683717	13.95
04	MSB071901	197227	8.56	729704	9.62	680361	13.96
05	GW-02	187013	8.57	673217	9.63	637606	13.95
06	GW-03	197374	8.56	756203	9.63	647792	13.95
07	GW-04B	179918	8.56	714144	9.62	627916	13.95
08	GW-05B	174367	8.56	633232	9.63	607636	13.95
09	GW-05BMS	185996	8.56	712160	9.63	618043	13.95
10	GW-05BMSD	189562	8.56	715709	9.62	623662	13.94
11	GW-06B	155238	8.57	541972	9.63	552882	13.95
12	RB071101	178115	8.56	709580	9.62	632547	13.94
13	TB071101	148516	8.56	521490	9.63	555420	13.94
14	GW-04BDL	166298	8.55	601658	9.62	551895	13.94
15	GW-07B	148975	8.55	536665	9.62	528051	13.94

IS1 = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

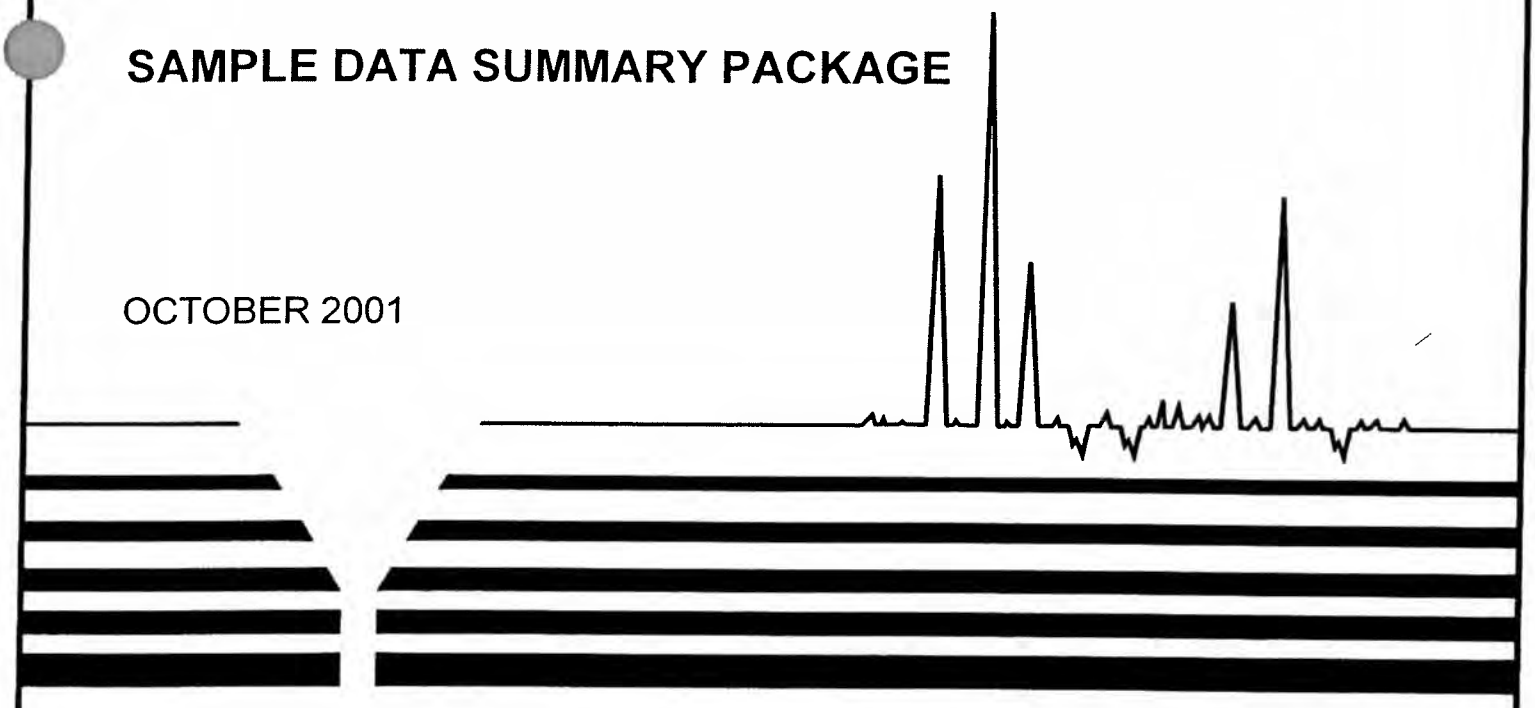
Analytical Data Package For

VERTEX ENGINEERING
SDG NO: VES005

~~Water~~ Samples
Received: 10/19/01 & 10/22/01

SAMPLE DATA SUMMARY PACKAGE

OCTOBER 2001



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
WATER SAMPLES
SDG NO.: VES005
SAMPLES RECEIVED: 10/19/01 & 10/22/01

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PEST/ PCB	*METALS	OTHER
SW-1	0110585-001	X					
SW-2	0110585-002	X					
SW-3	0110585-003	X					
SW-4	0110585-004	X					
SW-5 MS/MD	0110585-005	X					
EXCAV 2 WEST	0110602-001	X					

* Check Appropriate Boxes
* CLP, Non-CLP (Please indicate year of protocol) ASP B 10/95
* TCL/TAL, HCL, TS

VOLATILE
SAMPLE ANALYSIS SUMMARY
VES005

CLIENT SAMPLE ID	LAB NUMBER	MATRIX	DATE COLLECTED	DATE RECEIVED	LEVEL	DATE ANALYZD
SW-1	0110588-001A	SOIL	17-Oct-01	19-Oct-01	LOW	24-Oct-01
SW-2	0110588-002A	SOIL	17-Oct-01	19-Oct-01	LOW	23-Oct-01
SW-3	0110588-003A	SOIL	17-Oct-01	19-Oct-01	LOW	23-Oct-01
SW-4	0110588-004A	SOIL	17-Oct-01	19-Oct-01	LOW	23-Oct-01
SW-4DL	0110588-004ADL	SOIL	17-Oct-01	19-Oct-01	MED	26-Oct-01
SW-5	0110588-005A	SOIL	17-Oct-01	19-Oct-01	LOW	24-Oct-01
SW-5MS	0110588-005AMS	SOIL	17-Oct-01	19-Oct-01	LOW	23-Oct-01
SW-5MSD	0110588-005AMSD	SOIL	17-Oct-01	19-Oct-01	LOW	24-Oct-01
EXCAV 2 WEST	0110602-001A	SOIL	19-Oct-01	22-Oct-01	LOW	24-Oct-01

S 0004

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

3158

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: Vertex Engineering Services

H2M SDG NO: VES005

PROJECT NAME/NUMBER: Carmel Shop Rite Project #2583

SAMPLERS: (signature)/Client: Scott Zollo

DELIVERABLES: 8260 Cat B ASP

TURNAROUND TIME: Standard

NOTES: Inf.
10/19/01 spoke w/ Scott Zollo
each sampler is a composite. Choose one sample to run for MS/MSD.
K Kavanagh 10/19/01
8260 TCL VOA Cat B 28 Days

Project Contact: Scott Zollo

Phone Number: 718-729-9489

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC 8260 VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/17/01	1710	Soil	SW-1	1	X					0110588-001	Composite Sample
			SW-2	1	X					-002	
			SW-3	1	X					-003	
			SW-4	1	X					-004	
↓	↓	↓	SW-5	1	X					-005	MS/MSD

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Bri Pratt	10/19/01	345		10/19/01	15:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

9000 S

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

VES005

H2M Labs, Inc.

Sample Receipt Checklist

Client Name: VES

Date and Time Received: 10/19/2001 3:45:00 PM

Work Order Number 0110588

Received by: DLF

Checklist completed by: _____ 10-19-01 (Signature / Date)

Reviewed by: _____ (Initials / Date)

Matrix:

Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐ $< 6^{\circ}C$	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: Yeo Date contacted: 10/19/01 Person contacted: Scott Zdlo

Contacted by: KEK Regarding: _____

Comments: ★ No COC Tape on cooler. - cooler hand delivered Each sample is a composite - analyze all 5. Choose one sample as MS/MSD - billable.

Corrective Action: _____

S 0007

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: BS-70D TURN AROUND TIME: 21 Days

SDG #: VES005 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: _____ (LS) 9/19/01

RECEIVED BY: (LS) DLF SIGNATURE: _____ (LS) 9/19/01 DATE: 9/19/01 TIME: 1545

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	SW-1	0110588-001A	10.11.01	A	1	~~8260TCL~~=S
2	2	002A				ASPG-8260-S
3	3	003A				
4	4	004A				
5	5 MS MSD	005A				
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

TSK 10/23/01

LSD 01/9/0

S 0008
P 0286

H2M LABS, INC.

CLIENT: VES

SDG #: VES005

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
10/19/09	1730	SIGN	SIGN	A	analysis	
10/23/09	14:10	SIGN	SIGN	A	Analysis	
10.23.09	15:35	SIGN	SIGN	A	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
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P 0287
S 0009

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

3159

EXTERNAL CHAIN OF CUSTODY

CLIENT: Vertex

H2M SDG NO: V65005

PROJECT NAME/NUMBER: Carmel Shprite

SAMPLERS: (signature)/Client

DELIVERABLES: CAT. B

TURNAROUND TIME: 5 day

NOTES:

Project Contact: Jerri Hickson

Phone Number: 718-729-9488

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/19	1145p	S	Excav 2 West	1	1					0110589-001 DD	0110602-001

Sample Container Description: 8 oz Jar, 8260

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22	9:05		10/22	9:05
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22/01	9:05		10/22/01	9:05
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

S 0014

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain: _____

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

VES005

H2M Labs, Inc.

Sample Receipt Checklist

Client Name: VES

Date and Time Received: 10/22/2001 9:05:00 AM

Work Order Number ~~0110589~~ 0110602

Received by: DLF

Checklist completed by: _____ 10/22/01 (Signature / Date)

Reviewed by: SMB 10/23/01 (Initials / Date)

Matrix:

Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☐	No ☑	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐ < 6°C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

S 0011

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70D TURN AROUND TIME: 21 days

SDG #: VES005 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: _____

RECEIVED BY: DLF SIGNATURE: _____ DATE: 10/22/01 TIME: 9:05

CLIENT ID	H2M LAB # 0110602	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 EXCAV 2 WCSF	0110558 (0011) 001A	10-19-01	C	1	~~8260-TCL 5~~ (5030 MS 5)
2					ASPB5-8260_5 10/22/01 SMB
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DLF 10/22/01

S 0012
P 0289

H2M LABS, INC.

CLIENT: VES

SDG #: VES005

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
10/22/01	11:00	SIGN	SIGN	C	ANALYSIS	
10/23/01	1400	SIGN	SIGN	C	PM01ST	
10/23/01	1430	SIGN	SIGN	C	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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S 0013
P 0290

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 10/19/01 & 10/22/01
SDG #: VES005

For Samples:

SW-1
SW-2
SW-3
SW-4
SW-5 MS/MSD
EXCAV 2 WEST

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for a select list of volatile organic analytes.

Sample SW-4 was reanlayzed as a medium level due to concentration levels of targeted analyzed above the calibration range. Both sets of data are submitted.

Tetrachloroethene had a 27.5% RSD and ethylbenzene a 21.0% RSD in the initial calibration of 7/6/01 (limit 20.5).

Trans 1,3-dichloropropene had a 37.2% D and 34.5% D and bromoform a 36.3% D and a 26.6% D in the continuing calibrations of 10/23/01 and 10/24/01 respectively.

All other quality control and calibration criteria were met.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: November 8, 2001

****
* *
* *
****
Joann M. Slavin
Laboratory Manager

4. SAMPLE REPORTS
4.1 VOLATILES

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\%moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$\frac{(300\ U)}{.76} \times 10$ - 4300 U rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-1

H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19222.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 12.2 Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:
(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	4	BJ U
67-64-1	Acetone	41	
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	21	
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-1

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19222.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 12.2 Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SW-1

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19222.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 12.2 Date Analyzed: 10/24/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-2

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19204.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 10 Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	4	BJU
67-64-1	Acetone	9	J
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-2

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19204.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 10 Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SW-2

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19204.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 10 Date Analyzed: 10/23/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000066-25-1	Hexanal	12.72	20	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-3

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19205.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 8.4 Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	4	BJU
67-64-1	Acetone	7	J
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	7	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-3

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19205.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 8.4 Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SW-3

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19205.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 8.4 Date Analyzed: 10/23/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-4

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19206.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 8 Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	4	BJ U
67-64-1	Acetone	58	
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	3600	E
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-4

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19206.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 8 Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SW-4

Lab Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19206.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 8 Date Analyzed: 10/23/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: ~~8~~ 3 JC 11/7/01 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	(DEL) Alkane: Branched (14.81)	14.81	78	J
2.	(DEL) Alkane: Branched (15.11)	15.11	40	J
3.	(DEL) Alkane: Straight (15.49)	15.49	36	J
4.	(DEL) Alkane: Branched (15.73)	15.73	29	J
5.	unknown (15.91)	15.91	21	J
6.	(DEL) Alkane: Straight (16.17)	16.17	50	J
7. 000526-73-8	Benzene, 1,2,3-trimethyl-	16.46	30	NJ
8.	unknown (16.51)	16.51	36	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-4DL

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-004ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\P19236.D

Level: (low/med) ~~LOW~~ MED gmd 11/9/01 Date Received: 10/19/01

% Moisture: not dec. 8 Date Analyzed: 10/26/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	2700	U
74-83-9	Bromomethane	2700	U
75-01-4	Vinyl chloride	2700	U
75-00-3	Chloroethane	2700	U
75-09-2	Methylene chloride	2700	U
67-64-1	Acetone	2700	U
75-35-4	1,1-Dichloroethene	2700	U
75-15-0	Carbon disulfide	2700	U
75-34-3	1,1-Dichloroethane	2700	U
540-59-0	1,2-Dichloroethene (total)	2700	U
67-66-3	Chloroform	2700	U
107-06-2	1,2-Dichloroethane	2700	U
78-93-3	2-Butanone	2700	U
71-55-6	1,1,1-Trichloroethane	2700	U
56-23-5	Carbon tetrachloride	2700	U
75-27-4	Bromodichloromethane	2700	U
78-87-5	1,2-Dichloropropane	2700	U
10061-01-5	cis-1,3-Dichloropropene	2700	U
79-01-6	Trichloroethene	2700	U
124-48-1	Dibromochloromethane	2700	U
79-00-5	1,1,2-Trichloroethane	2700	U
71-43-2	Benzene	2700	U
10061-02-6	trans-1,3-Dichloropropene	2700	U
75-25-2	Bromoform	2700	U
108-10-1	4-Methyl-2-pentanone	2700	U
591-78-6	2-Hexanone	2700	U
127-18-4	Tetrachloroethene	7500	D
79-34-5	1,1,2,2-Tetrachloroethane	2700	U
108-88-3	Toluene	2700	U
108-90-7	Chlorobenzene	2700	U
100-41-4	Ethylbenzene	2700	U
100-42-5	Styrene	2700	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-4DL

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-004ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\P19236.D

Level: (low/med) ~~LOW~~ med Date Received: 10/19/01

% Moisture: not dec. 8 Date Analyzed: 10/26/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	2700	U

1F

EPA SAMPLE NO.

SW-4DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-004ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\P19236.D

Level: (low/med) ~~Low~~med Date Received: 10/19/01

% Moisture: not dec. 8 Date Analyzed: 10/26/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-5

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19223.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 7.9 Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	4	BJU
67-64-1	Acetone	6	J
75-35-4	1,1-Dichloroethene	11	U
75-15-0	Carbon disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-5

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19223.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 7.9 Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SW-5

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110588-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19223.D

Level: (low/med) LOW Date Received: 10/19/01

% Moisture: not dec. 7.9 Date Analyzed: 10/24/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXCAV 2 WEST

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110602-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19221.D

Level: (low/med) LOW Date Received: 10/22/01

% Moisture: not dec. 4.3 Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	BJ U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	45	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXCAV 2 WEST

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110602-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19221.D

Level: (low/med) LOW Date Received: 10/22/01

% Moisture: not dec. 4.3 Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	10	U

S 0038

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EXCAV 2 WEST

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: 0110602-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19221.D

Level: (low/med) LOW Date Received: 10/22/01

% Moisture: not dec. 4.3 Date Analyzed: 10/24/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES005

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	Other	TOT OUT
01	VBLK102301	98	96	102		0
02	LFB102301	102	100	98		0
03	MSB102301	98	102	102		0
04	SW-2	95	95	104		0
05	SW-3	98	91	100		0
06	SW-4	96	96	102		0
07	SW-5MS	94	96	102		0
08	SW-5MSD	96	98	102		0
09	VBLK102401	110	102	100		0
10	EXCAV 2 WEST	108	100	104		0
11	SW-1	104	96	104		0
12	SW-5	111	102	104		0
13	VHBLK	100	98	100		0
14	VBLK102601M	102	98	102		0
* 15	SW-4DL	100	100	100		0

* medium level

jms 11/9/01

			QC Limits
SMC 1	DCE	= 1,2-Dichloroethane-d4	(70-121)
SMC 2	TOL	= Toluene-d8	(84-138)
SMC 3	BFB	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES005

Matrix Spike - EPA Sample No.: SW-5 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	54	0	59	109	59-172
Trichloroethene	54	0	53	98	62-137
Benzene	54	0	56	104	66-142
Toluene	54	0	55	102	59-139
Chlorobenzene	54	0	57	106	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	54	61	113	4	22	59-172
Trichloroethene	54	52	96	2	24	62-137
Benzene	54	54	100	4	21	66-142
Toluene	54	56	104	2	21	59-139
Chlorobenzene	54	57	106	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES005

Sample ID MSB102301 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	42	84	59-172
Trichloroethene	50	0	40	80	62-137
Benzene	50	0	41	82	66-142
Toluene	50	0	44	88	59-139
Chlorobenzene	50	0	44	88	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

5 NC 11/7/01

Spike Recovery: 0 out of ~~0~~ outside limits

COMMENTS: _____

FORM III SW8260B

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES005

Sample ID LFB102301 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	51	102	33-149
Bromomethane	50	0	47	94	58-144
Vinyl chloride	50	0	48	96	20-164
Chloroethane	50	0	44	88	33-153
Methylene chloride	50	2	39	74	46-157
Acetone	50	0	92	184	50-187
1,1-Dichloroethene	50	0	43	86	65-142
Carbon disulfide	50	0	44	88	52-143
1,1-Dichloroethane	50	0	44	88	67-141
1,2-Dichloroethene (total)	100	0	86	86	57-150
Chloroform	50	0	44	88	68-140
1,2-Dichloroethane	50	0	43	86	65-147
2-Butanone	50	0	85	170	30-226
1,1,1-Trichloroethane	50	0	40	80	78-127
Carbon tetrachloride	50	0	37	74	70-136
Bromodichloromethane	50	0	43	86	78-137
1,2-Dichloropropane	50	0	42	84	81-132
cis-1,3-Dichloropropene	50	0	43	86	78-131
Trichloroethene	50	0	40	80	72-145
Dibromochloromethane	50	0	42	84	82-136
1,1,2-Trichloroethane	50	0	43	86	80-139
Benzene	50	0	43	86	71-142
trans-1,3-Dichloropropene	50	0	43	86	59-147
Bromoform	50	0	41	82	81-142
4-Methyl-2-pentanone	50	0	42	84	64-170
2-Hexanone	50	0	67	134	59-163
Tetrachloroethene	50	0	45	90	67-144
1,1,2,2-Tetrachloroethane	50	0	40	80	72-152
Toluene	50	0	43	86	83-129
Chlorobenzene	50	0	45	90	85-128

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

33 RC 11/7/01

Spike Recovery: 0 out of ~~0~~ outside limits

COMMENTS: _____

FORM III SW8260B

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES005

Sample ID LFB102301 Level: (low/med) LOW

Ethylbenzene	50	0	47	94	80-129
Styrene	50	0	46	92	85-126
Xylene (total)	150	0	150	100	79-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

33 NC 11/7/01

Spike Recovery: 0 out of 0 outside limits

COMMENTS: _____

FORM III SW8260B

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK102301

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES005

Lab File ID: A\P19191.D Lab Sample ID: VBLK102301

Date Analyzed: 10/23/01 Time Analyzed: 14:24

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB102301	LFB102301	A\P19192.D	15:17
02	MSB102301	MSB102301	A\P19193.D	15:55
03	SW-2	0110588-002A	A\P19204.D	21:42
04	SW-3	0110588-003A	A\P19205.D	22:14
05	SW-4	0110588-004A	A\P19206.D	22:45
06	SW-5MS	0110588-005AMS	A\P19208.D	23:48
07	SW-5MSD	0110588-005AMSD	A\P19209.D	0:19

COMMENTS: _____

_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102301

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102301

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19191.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	2	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102301

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102301

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19191.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/23/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

VBLK102301

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102301

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19191.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/23/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK102401

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES005

Lab File ID: A\P19218.D Lab Sample ID: VBLK102401

Date Analyzed: 10/24/01 Time Analyzed: 15:55

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EXCAV 2 WEST	0110602-001A	A\P19221.D	17:41
02	SW-1	0110588-001A	A\P19222.D	18:17
03	SW-5	0110588-005A	A\P19223.D	18:47
04	VHBLK	VHBLK	A\P19224.D	19:19

COMMENTS: _____

_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102401

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102401

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19218.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	3	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102401

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102401

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19218.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/24/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK102401

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102401

Sample wt/vol: 5 (g/mL) G Lab File ID: A\P19218.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/24/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK102601M

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES005

Lab File ID: A\P19230.D Lab Sample ID: VBLK102601M

Date Analyzed: 10/26/01 Time Analyzed: 14:10

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	SW-4DL	0110588-004ADL	A\P19236.D	17:01

COMMENTS: _____

_____

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK102601M

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102601M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\P19230.D

Level: (low/med) ~~LOW~~ med 11/9/01 Date Received:

% Moisture: not dec. Date Analyzed: 10/26/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene chloride	1200	U
67-64-1	Acetone	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-15-0	Carbon disulfide	1200	U
75-34-3	1,1-Dichloroethane	1200	U
540-59-0	1,2-Dichloroethene (total)	1200	U
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	1200	U
56-23-5	Carbon tetrachloride	1200	U
75-27-4	Bromodichloromethane	1200	U
78-87-5	1,2-Dichloropropane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
79-01-6	Trichloroethene	1200	U
124-48-1	Dibromochloromethane	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
71-43-2	Benzene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	1200	U
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
108-88-3	Toluene	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1200	U
100-42-5	Styrene	1200	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102601M

Lab Name: H2M Labs, Inc. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102601M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\P19230.D

Level: (low/med) ~~Low~~ med pmp 11/9/01 Date Received:

% Moisture: not dec. Date Analyzed: 10/26/01

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
1330-20-7	Xylene (total)	1200	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK102601M

Name H2M Labs, Inc. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES005

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102601M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\P19230.D

Level: (low/med) ~~LOW~~ med Date Received:

% Moisture: not dec. Date Analyzed: 10/26/01

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES005

Lab File ID (Standard): A\P19189.D Date Analyzed: 10/23/01

EPA Sample No. (VSTD050##): VSTD050 Time Analyzed: 13:09

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	155435	8.62	748159	9.7	582249	14.04
	UPPER LIMIT	310870	9.12	1496318	10.2	1164498	14.54
	LOWER LIMIT	77718	8.12	374080	9.2	291125	13.54
	EPA SAMPLE						
01	VBLK102301	198600	8.63	866224	9.71	725584	14.05
02	LFB102301	173782	8.63	870423	9.70	694698	14.04
03	MSB102301	181076	8.62	880957	9.70	694658	14.04
04	SW-2	161874	8.63	749199	9.70	615665	14.03
05	SW-3	153945	8.63	711715	9.70	621302	14.03
06	SW-4	140181	8.63	685305	9.70	604086	14.05
07	SW-5MS	150703	8.62	762967	9.70	654474	14.03
08	SW-5MSD	146651	8.63	799995	9.69	649996	14.03

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No._____ SDG No.: VES005

Lab File ID (Standard): A\P19216.D Date Analyzed: 10/24/01

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 12:20

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	165041	8.6	681585	9.69	669737	14.02
	UPPER LIMIT	330082	9.1	1363170	10.19	1339474	14.52
	LOWER LIMIT	82521	8.1	340793	9.19	334869	13.52
	EPA SAMPLE						
01	VBLK102401	176453	8.63	814932	9.71	697933	14.03
02	EXCAV 2 WEST	157120	8.63	739306	9.71	634016	14.04
03	SW-1	164203	8.64	742393	9.71	640656	14.04
04	SW-5	168312	8.64	799634	9.71	666469	14.05
05	VHBLK	180036	8.63	766467	9.71	668106	14.04

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M Labs, Inc. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES005

Lab File ID (Standard): A\P19228.D Date Analyzed: 10/26/01

EPA Sample No. (VSTD050##): VSTD050 Time Analyzed: 12:51

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	308701	8.73	1359827	9.79	1180155	14.1
	UPPER LIMIT	617402	9.23	2719654	10.29	2360310	14.6
	LOWER LIMIT	154351	8.23	679914	9.29	590078	13.6
	EPA SAMPLE						
01	VBLK102601M	294064	8.72	1320460	9.80	1135678	14.10
02	SW-4DL	287075	8.72	1281126	9.79	1071006	14.10

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

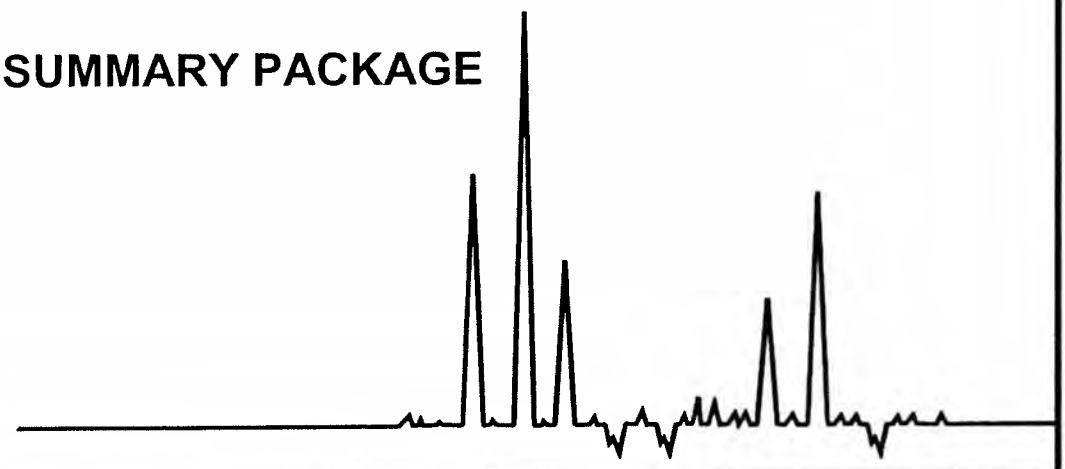
Analytical Data Package For

VERTEX ENGINEERING
SDG NO: VES006

Water Samples
Received: 2/1/02

SAMPLE DATA SUMMARY PACKAGE

FEBRUARY 2002



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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CARMEL PROJECT 2583
SAMPLES RECEIVED: 2/1/02
SDG NO.: VES006

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4. SAMPLE REPORTS
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6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY
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   8.1 VOLATILES

H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
WATER SAMPLES
SDG NO.: VES006
SAMPLES RECEIVED: 2/1/02

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PEST/ PCB	*METALS	OTHER
GW-01	0202005-001	X					
GW-02	0202005-002	X					
GW-03	0202005-003	X					
GW-04B	0202005-004	X					
GW-05B	0202005-005	X					
GW-06B MS/MSD	0202005-006	X					
GW-07	0202005-007	X					
GW-08	0202005-008	X					
GW-09	0202005-009	X					
GW-10	0202005-010	X					
RB013102	0202005-011	X					
TB013102	0202005-012	X					

* Check Appropriate Boxes
* CLP, (Non-CLP) (Please indicate year of protocol) 10\95
* TCL/TAL, HCL, TS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSES

LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECEIVED	LOW LEVEL MED. LEVEL	DATE * ANALYZED
GW-01	WATER	01/31/02	02/01/02	LOW	02/05/02
GW-02	WATER	01/31/02	02/10/02	LOW	02/05/02
GW-03	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-03DL	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-04B	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-05B	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-06B MS/MSD	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-06B DL	WATER	01/31/02	02/01/02	LOW	02/07/02
GW-07	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-08	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-09	WATER	01/31/02	02/01/02	LOW	02/06/02
GW-10	WATER	01/31/02	02/01/02	LOW	02/06/02
RB013102	WATER	01/31/02	02/01/02	LOW	02/05/02
TB013102	WATER	01/31/02	02/01/02	LOW	02/05/02

H2M LABS, INC.

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

2506

1 OF 2

EXTERNAL CHAIN OF CUSTODY

CLIENT: Vertex (VES) **H2M SDG NO:** VES006

PROJECT NAME/NUMBER: Carmel Shop Rite
PROJECT # 2538

SAMPLERS: (signature)/Client: / VERTEX

DELIVERABLES: B5-70 NYSDEC ASP Cat B

TURNAROUND TIME: 21 Days

NOTES: NOT PRESERVED

Project Contact:

Phone Number:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: 40 ml VIAL 8260 Aus MTBE	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
1/31/02	0905	WATER	GW-06B	2	2						0202005-006A	VOCs 8260 + MTBE
	0905		GW-06B MS/MSD	4	4						↓	MS/MSD
	0730		GW-01	2	2						001A	
	0750		GW-02								002A	
	1340		GW-03								003A	
	1115		GW-04B								004A	
	1010		GW-05B								005A	
	1600		GW-07								007A	
	1455		GW-08								008A	
	0845		RB013102								011A	RINSEATE BLANK
	—		TB013102								012A	TB

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1/31/02	1730		2/1/02	10:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# 233405033664
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VES006 S6

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

2507

EXTERNAL CHAIN OF CUSTODY

CLIENT: VERTEX (VES)

H2M SDG NO: VES006

PROJECT NAME/NUMBER
CARMEL SHOPRITE
PROJECT # 2538

SAMPLERS: (signature)/Client
[signature] / VERTEX

DELIVERABLES:
NYSDEC ASP CAT B

TURNAROUND TIME: 21 DAYS

NOTES:
NOT PRESERVED

Project Contact:

Phone Number:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA (VOCs 8260 PLUS MTBE 40 ml VIAL)	ORGANIC: BNA	ORGANIC: Pest/PCB	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
1/31/02	1315	WATER	GW-09	2	2					0202005-009A	VOCs 8260 +MTBE
1/31/02	1630	WATER	GW-10	2	2					010A	

BSR 2/1/02

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/31/02	1730	[signature]	2/1/02	10:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# 833140505064
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VES006 S-7

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

VES006

H2M LABS, INC.

Sample Receipt Checklist

Client Name VES

Date and Time Receive 2/1/2002 10:00:00 AM

Work Order Numbe 0202005

Received by BR

Checklist completed b _____ 2/1/02 (Signature / Date)

Reviewed by _____ 2/1/02 (Initials / Date)

Matrix

Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☑	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐ 3.6°C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

VES006 S 8

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 21 Days

SDG #: VES006 CASE #: _____ MATRIX: Aqueous pH CHECK Y or N

REMARKS: 05 VES 02

RECEIVED BY: BSR SIGNATURE: [signature] DATE: 2/1/02 TIME: 10:00

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	GW-01	020205 001A	1-31-02	D	2	ASPB5-8260-W
2	02	002A				
3	03	003A				
4	04B	004A				
5	05B	005A			6	
6	06B MS/MSD	006A				
7	07	007A			2	
8	08	008A				
9	09	009A				
10	10	010A				
11	RB013102	011A				
12	TB013102	012A				
13						
14						
15						
16						
17						
18						
19						
20						

BSR 2/1/02

SEL FEB 2/1/02

VOLATILE

P 0289

VES006 S 9

H2M LABS, INC.

CLIENT: VES

SDG #: VES006

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
2/1/02	12:00	SIGN Brian Lobl	SIGN	D	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

P 0290

VES006 S 10

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 2/1/02
SDG #: VES006

For Samples:

GW-01	GW-07
GW-02	GW-08
GW-03	GW-09
GW-04B	GW-10
GW-05B	RB013102
GW-06B	TB013102

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for a select list of volatile organic analytes.

All QC data and the calibrations met the requirements of the protocol except for a minimum Rf of tetrachloroethene less than 0.200 in the continuing calibration of 2/3/02, and %Ds for bromoform above 25% in the continuing calibrations of 2/6/02 and 2/7/02.

Sample GW-06B was analyzed as the matrix spike/matrix spike duplicate. All % recovery and RPD criteria were met. No matrix spike blank was analyzed, however, lab fortified blanks were analyzed. All percent recoveries in the lab fortified blanks were within or above QC limits.

Samples GW-03 and GW-06B were reanalyzed at a dilution, because the concentrations of targeted analytes exceeded the calibration range. Both sets of data are reported.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: February 19, 2002

****
* *
* *
****

Joann M. Slavin
Laboratory Manager

o:\qc\narr2002\ves\voa\ves006.rtf

2/21/2002

H2M LABS, INC.

4. SAMPLE REPORTS
4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\%moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take

appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7834.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	2	J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	20	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7834.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

GW-01

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMO 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7834.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7835.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	21	
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	4	J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7835.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-02

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ gmo 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7835.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		benzene (C4 substitute)	10.87	53	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7853.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	230	E
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VES~~ GMO 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7853.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VES006 S 23

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-03

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ SDG No. VES006

jms 2/18/02

Matrix: (soil/water) WATER Lab Sample ID: 0202005-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7853.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000994-05-8	Butane, 2-methoxy-2-methyl-	5.63	9	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7871.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene chloride	4	DBJ
67-64-1	Acetone	20	U
75-35-4	1,1-Dichloroethene	20	U
75-15-0	Carbon disulfide	20	U
75-34-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	20	U
1634-04-4	Methyl tert-butyl ether	200	D
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ qmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7871.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	20	U
1330-20-7	Xylene (total)	20	U

1F

EPA SAMPLE NO.

GW-03DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMO 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7871.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 2.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7854.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	75	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VES~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7854.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

GW-04B

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMS 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7854.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7855.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	12	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7855.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-05B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ jms 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7855.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VES~~ GMS 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7856.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	3	J
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	4	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	430	E
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ Jms c/15/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7856.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-06B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ 2nd 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7856.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06BDL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VES~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7872.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene chloride	11	DBJ
67-64-1	Acetone	50	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon disulfide	50	U
75-34-3	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
67-66-3	Chloroform	50	U
1634-04-4	Methyl tert-butyl ether	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	350	D
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06BDL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ JM 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7872.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	50	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-06BDL

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ gms 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7872.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 5.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ JMS 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7859.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	52	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7859.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-07

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7859.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-08

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7860.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	110	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-08

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ JMS 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7860.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-08

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ gms 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7860.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7861.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	57	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7861.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-09

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7861.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-10

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: gms 2/18/02 ~~Priced by VTS~~ SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7862.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	52	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-10

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ SMO 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7862.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-10

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMS 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7862.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB013102

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7832.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB013102

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gmo 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7832.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB013102

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMS 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7832.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB013102

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ JMS 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7833.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	11	
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB013102

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VHS~~ JMS 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7833.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB013102

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. Priced by V 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: 0202005-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7833.D

Level: (low/med) LOW Date Received: 02/01/02

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

H2M LABS, INC.

5. SURROGATE SPIKE ANALYSIS RESULTS
5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by~~ JMS 2/18/02 SDG No.: VES006

	EPA SAMPLE NO.	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	Other	TOT OUT
01	VBLK020502	102	100	100		0
02	LFB020502	100	100	102		0
03	RB013102	102	98	102		0
04	TB013102	102	102	104		0
05	GW-01	102	100	100		0
06	GW-02	104	100	102		0
07	VBLK020602	102	100	100		0
08	LFB020602	100	98	100		0
09	GW-03	106	98	100		0
10	GW-04B	102	98	100		0
11	GW-05B	102	100	100		0
12	GW-06B	104	98	100		0
13	GW-06BMS	100	98	98		0
14	GW-06BMSD	104	100	98		0
15	GW-07	104	98	100		0
16	GW-08	102	100	98		0
17	GW-09	102	100	100		0
18	GW-10	104	100	100		0
19	VBLK020702	100	100	100		0
20	GW-03DL	100	98	99		0
21	GW-06BDL	104	100	100		0

			QC Limits
SMC 1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC 2	TOL	= Toluene-d8	(88-110)
SMC 3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced~~ 2/18/02 SDG No.: VES006

Matrix Spike - EPA Sample No.: GW-06B

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	33	66	61-145
Trichloroethene	50	4	47	86	71-120
Benzene	50	0	42	84	76-127
Toluene	50	0	44	88	76-125
Chlorobenzene	50	0	42	84	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	38	76	14	14	61-145
Trichloroethene	50	53	98	13	14	71-120
Benzene	50	46	92	9	11	76-127
Toluene	50	49	98	11	13	76-125
Chlorobenzene	50	48	96	13	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced~~ 9MS 2/18/02 SDG No.: VES006

Sample ID LFB020502 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	54	108	70-114
Bromomethane	50	0	53	106	50-136
Vinyl chloride	50	0	55	110	66-117
Chloroethane	50	0	52	104	71-116
Methylene chloride	50	0	51	102	80-112
Acetone	50	0	51	102	71-125
1,1-Dichloroethene	50	0	54	108	67-120
Carbon disulfide	50	0	58	116	61-126
1,1-Dichloroethane	50	0	53	106	77-114
1,2-Dichloroethene (total)	100	0	110	110	78-128
Chloroform	50	0	53	106	75-119
Methyl tert-butyl ether	50	0	52	104	78-140
1,2-Dichloroethane	50	0	51	102	76-120
2-Butanone	50	0	53	106	74-121
1,1,1-Trichloroethane	50	0	50	100	66-126
Carbon tetrachloride	50	0	51	102	64-126
Bromodichloromethane	50	0	50	100	78-118
1,2-Dichloropropane	50	0	49	98	81-115
cis-1,3-Dichloropropene	50	0	49	98	79-116
Trichloroethene	50	0	49	98	72-121
Dibromochloromethane	50	0	48	96	75-125
1,1,2-Trichloroethane	50	0	49	98	82-116
Benzene	50	0	51	102	77-116
trans-1,3-Dichloropropene	50	0	49	98	77-120
Bromoform	50	0	47	94	75-121
4-Methyl-2-pentanone	50	0	53	106	79-121
2-Hexanone	50	0	51	102	76-119
Tetrachloroethene	50	0	57	114	59-133
1,1,2,2-Tetrachloroethane	50	0	48	96	77-120
Toluene	50	0	50	100	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 0/34 outside limits

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced~~ 9/10 2/18/02 SDG No.: VES006

Sample ID LFB020502 Level: (low/med) LOW

Chlorobenzene	50	0	50	100	72-124
Ethylbenzene	50	0	56	112	68-128
Styrene	50	0	51	102	72-124
Xylene (total)	150	0	160	107	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 0/34 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced~~ gas 2/18/02 SDG No.: VES006

Sample ID LFB020602 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	43	86	70-114
Bromomethane	50	0	44	88	50-136
Vinyl chloride	50	0	42	84	66-117
Chloroethane	50	0	42	84	71-116
Methylene chloride	50	0	61	122*	80-112
Acetone	50	0	48	96	71-125
1,1-Dichloroethene	50	0	38	76	67-120
Carbon disulfide	50	0	47	94	61-126
1,1-Dichloroethane	50	0	45	90	77-114
1,2-Dichloroethene (total)	100	0	89	89	78-128
Chloroform	50	0	46	92	75-119
~~Freon 113~~	~~50~~	~~0~~	~~0~~	~~0*~~	~~32-186~~
Methyl tert-butyl ether	50	0	48	96	78-140
1,2-Dichloroethane	50	0	48	96	76-120
2-Butanone	50	0	48	96	74-121
1,1,1-Trichloroethane	50	0	43	86	66-126
Carbon tetrachloride	50	0	43	86	64-126
Bromodichloromethane	50	0	47	94	78-118
1,2-Dichloropropane	50	0	47	94	81-115
cis-1,3-Dichloropropene	50	0	48	96	79-116
Trichloroethene	50	0	45	90	72-121
Dibromochloromethane	50	0	48	96	75-125
1,1,2-Trichloroethane	50	0	49	98	82-116
Benzene	50	0	45	90	77-116
trans-1,3-Dichloropropene	50	0	48	96	77-120
Bromoform	50	0	48	96	75-121
4-Methyl-2-pentanone	50	0	48	96	79-121
2-Hexanone	50	0	48	96	76-119
Tetrachloroethene	50	0	42	86	59-133
1,1,2,2-Tetrachloroethane	50	0	48	96	77-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 34 outside limits

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced~~ SDG No.: VES006

Sample ID LFB020602 Level: (low/med) LOW

Toluene	50	0	45	90	70-125
Chlorobenzene	50	0	46	92	72-124
Ethylbenzene	50	0	45	90	68-128
Styrene	50	0	47	94	72-124
Xylene (total)	150	0	130	87	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 0 outside limits

COMMENTS:

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK020502

Lab Name: H2M LABS, INC. Contract: JMD 2/18/02

Lab Code: 10478 Case No.: VES SAS No. ~~Priced~~ SDG No.: VES006

Lab File ID: 2V\F7816.D Lab Sample ID: VBLK020502

Date Analyzed: 02/05/02 Time Analyzed: 9:35

GC Column: HP-VOC ID: .2 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB020502	LFB020502	2V\F7817.D	10:04
02	RB013102	0202005-011A	2V\F7832.D	17:25
03	TB013102	0202005-012A	2V\F7833.D	17:54
04	GW-01	0202005-001A	2V\F7834.D	18:23
05	GW-02	0202005-002A	2V\F7835.D	18:53

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK020502

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020502

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7816.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK020502

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VES~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020502

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7816.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

VBLK020502

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMO 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020502

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7816.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/05/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK020602

Lab Name: H2M LABS, INC. Contract: JMD 2/18/02

Lab Code: 10478 Case No.: VES SAS No. ~~Priced 1~~ SDG No.: VES006

Lab File ID: 2V\F7846.D Lab Sample ID: VBLK020602

Date Analyzed: 02/06/02 Time Analyzed: 15:57

GC Column: HP-VOC ID: .2 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB020602	LFB020602	2V\F7847.D	16:26
02	GW-03	0202005-003A	2V\F7853.D	19:23
03	GW-04B	0202005-004A	2V\F7854.D	19:51
04	GW-05B	0202005-005A	2V\F7855.D	20:19
05	GW-06B	0202005-006A	2V\F7856.D	20:47
06	GW-06BMS	0202005-006AMS	2V\F7857.D	21:14
07	GW-06BMSD	0202005-006AMSD	2V\F7858.D	21:42
08	GW-07	0202005-007A	2V\F7859.D	22:10
09	GW-08	0202005-008A	2V\F7860.D	22:38
10	GW-09	0202005-009A	2V\F7861.D	23:06
11	GW-10	0202005-010A	2V\F7862.D	23:34

COMMENTS: _____

_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK020602

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020602

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7846.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK020602

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VES~~ SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020602

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7846.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK020602

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMS 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020602

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7846.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/06/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK020702

Lab Name: H2M LABS, INC. Contract: ~~Priced~~ 2/18/02

Lab Code: 10478 Case No.: VES SAS No. ~~Priced~~ SDG No.: VES006

Lab File ID: 2V\F7869.D Lab Sample ID: VBLK020702

Date Analyzed: 02/07/02 Time Analyzed: 11:54

GC Column: HP-VOC ID: .2 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-03DL	0202005-003A	2V\F7871.D	12:49
02	GW-06BDL	0202005-006A	2V\F7872.D	13:17

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK020702

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VES~~ gms 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020702

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7869.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	2	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK020702

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ~~Priced by VIS~~ JMS 2/18/02 SDG No.: VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020702

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7869.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VES006 S 77

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK020702

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. ~~Priced by V~~ JMS 2/18/02 SDG No. VES006

Matrix: (soil/water) WATER Lab Sample ID: VBLK020702

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F7869.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/07/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

H2M LABS, INC.

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: 2/18/02

Lab Code: 10478 Case No.: VES SAS No. ~~Priced~~ SDG No.: VES006

Lab File ID (Standard): 2V\F7815.D Date Analyzed: 02/05/02

EPA Sample No.(VSTD050##) VSTD050 Time Analyzed: 9:00

Instrument ID: HP5973-1 Heated Purge: (Y/N) N

GC Column: HP-VOC ID: .2 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	62204	4.81	415206	5.78	360421	8.54
	UPPER LIMIT	124408	5.31	830412	6.28	720842	9.04
	LOWER LIMIT	31102	4.31	207603	5.28	180211	8.04
	EPA SAMPLE						
01	VBLK020502	62660	4.82	415241	5.77	364031	8.54
02	LFB020502	59851	4.81	401861	5.78	346446	8.54
03	RB013102	56602	4.81	370792	5.78	323555	8.54
04	TB013102	56996	4.82	371900	5.77	318727	8.54
05	GW-01	57109	4.82	379567	5.77	328437	8.53
06	GW-02	56793	4.81	373539	5.78	325427	8.54

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: VES SAS No. ~~Priced b~~ SDG No.: VES006

Lab File ID (Standard): 2V\F7845.D Date Analyzed: 02/06/02

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 15:19

Instrument ID: HP5973-1 Heated Purge: (Y/N) N

GC Column: HP-VOC ID: .2 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	57317	4.82	381840	5.77	329969	8.54
	UPPER LIMIT	114634	5.32	763680	6.27	659938	9.04
	LOWER LIMIT	28659	4.32	190920	5.27	164985	8.04
	EPA SAMPLE						
01	VBLK020602	57241	4.82	380079	5.77	333812	8.53
02	LFB020602	56128	4.82	370347	5.77	323402	8.54
03	GW-03	53540	4.82	360405	5.77	317641	8.54
04	GW-04B	54726	4.82	368576	5.78	323908	8.54
05	GW-05B	56492	4.81	372778	5.78	326516	8.54
06	GW-06B	55809	4.82	372610	5.77	331030	8.54
07	GW-06BMS	56575	4.81	372981	5.78	330088	8.54
08	GW-06BMSD	56096	4.81	376065	5.78	330970	8.54
09	GW-07	56187	4.82	379319	5.77	334611	8.54
10	GW-08	56200	4.81	373411	5.78	331161	8.54
11	GW-09	56888	4.82	376919	5.77	331140	8.54
12	GW-10	57463	4.82	381331	5.78	337107	8.54

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: ~~Prjeed~~ 2/18/02

Lab Code: 10478 Case No.: VES SAS No. ~~Prjeed~~ SDG No.: VES006

Lab File ID (Standard): 2V\F7868.D Date Analyzed: 02/07/02

EPA Sample No.(VSTD050##) VSTD050 Time Analyzed: 11:17

Instrument ID: HP5973-1 Heated Purge: (Y/N) N

GC Column: HP-VOC ID: .2 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	57324	4.82	386523	5.77	337068	8.54
	UPPER LIMIT	114648	5.32	773046	6.27	674136	9.04
	LOWER LIMIT	28662	4.32	193262	5.27	168534	8.04
	EPA SAMPLE						
01	VBLK020702	57763	4.81	383639	5.78	338900	8.54
02	GW-03DL	57173	4.82	389710	5.78	340361	8.54
03	GW-06BDL	56528	4.82	379580	5.77	337126	8.54

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

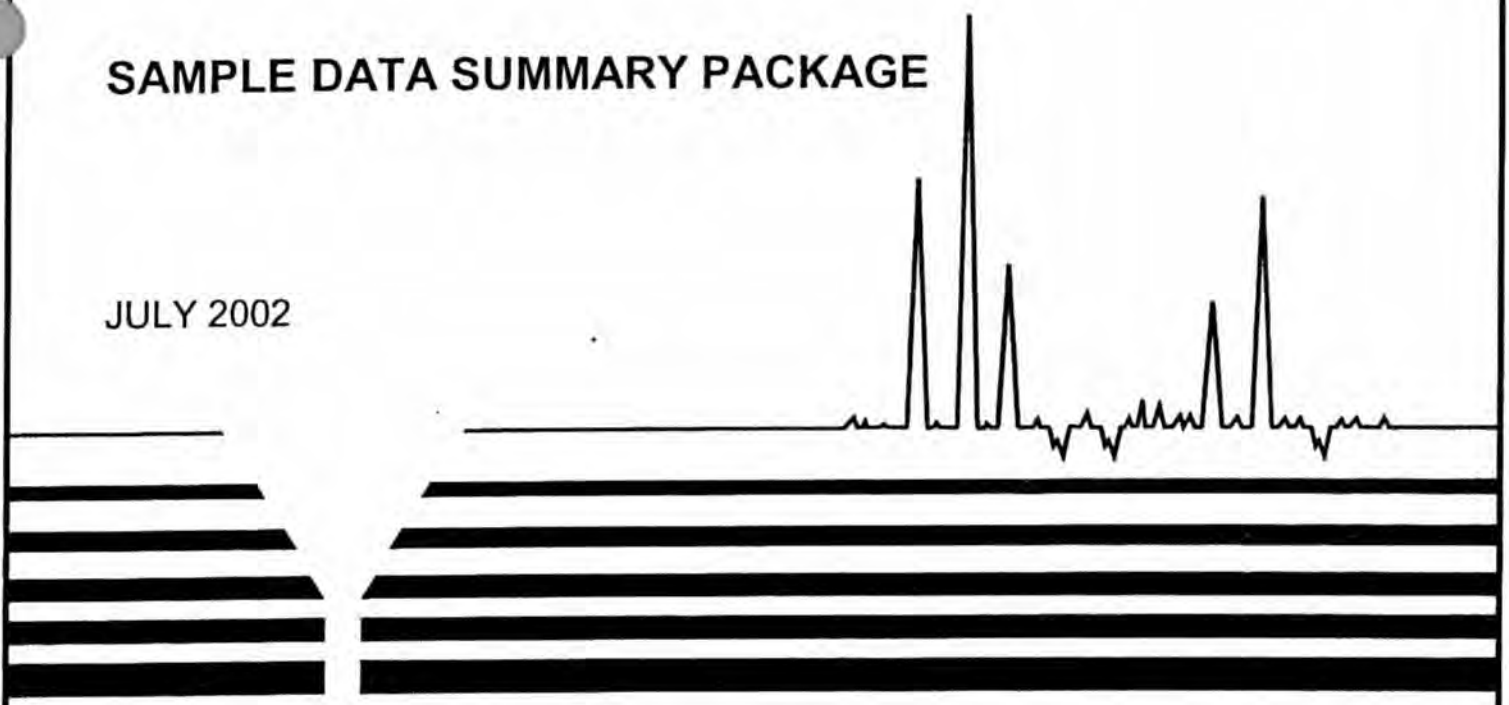
Analytical Data Package For

VERTEX ENGINEERING
SDG NO: VES007

Water Samples
Received: 7/8/02

SAMPLE DATA SUMMARY PACKAGE

JULY 2002



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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CARMEL PROJECT 2583
SAMPLES RECEIVED: 7/8/02
SDG NO.: VES007

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H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
WATER SAMPLES
SDG NO.: VES007
SAMPLES RECEIVED: 7/8/02

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PEST/ PCB	*METALS	OTHER
GW-01	0207159-001	X					
GW-02	0207159-002	X					
GW-03	0207159-003	X					
GW-04B	0207159-004	X					
GW-05B	0207159-005	X					
GW-06B	0207159-006	X					
GW-07	0207159-007	X					
GW-08	0207159-008	X					
GW-09	0207159-009	X					
GW-11B	0207159-010	X					
GW-12	0207159-011	X					
GW-13B	0207159-012	X					
GW-14B	0207159-013	X					
[illegible]0502	0207159-014	X					
[illegible]502	0207159-015	X					

* Check Appropriate Boxes
* CLP, (Non-CLP) (Please indicate year of protocol) ASP B 1095
* TCL/TAL, HCL, TS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSES

MS 7/23/02

Sample ID	EPA Sample ID	MATRIX	Date Collected	Date Received	LEVEL	Date Analyzed
0207159-015A	TB070502	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-001A	GW-01	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-002A	GW-02	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-003A	GW-03	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-004A	GW-04B	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-005A	GW-05B	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-006A	GW-06B	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-007A	GW-07	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-008A	GW-08	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-009A	GW-09	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-010A	GW-10B	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-010AMS	GW-10BMS	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-010AMSD	GW-10BMSD	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-011A	GW-12	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-012A	GW-13B	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-013A	GW-14B	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-014A	RB070502	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-003ADL	GW-03DL	WATER	07/05/02	07/08/02	LOW	07/11/02
0207159-004ADL	GW-04BDL	WATER	07/05/02	07/08/02	LOW	07/12/02
0207159-013ADL	GW-14BDL	WATER	07/05/02	07/08/02	LOW	07/12/02
VHBLK	VHBLK	WATER			LOW	07/11/02

MS MSD 7/22/02

VES007 S4

2. CHAIN OF CUSTODY DOCUMENTATION

575 Broadhollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

H2M LABS, INC.

No. 559

EXTERNAL CHAIN OF CUSTODY

CLIENT: VERTEX (VES)

H2M SDG NO: VES007

PROJECT NAME/NUMBER
CARMEL SHOP RITE
PROJECT # 2538

SAMPLERS: (signature)/Client
JON KLINK 7/8/02

DELIVERABLES:
B5-70 ASAP w/ no surcharge

TURNAROUND TIME: REQUEST 5 DAY TAT
CALL GERRY HICKSON W# 718-729-9489 Cell # 917-838-2595

NOTES:
* 8260-W-TCL (TCL + MTBE)
NYSDEC ASP CAT. B DELIVERABLE
NOT PRESERVED W/ HCL

Project Contact: GERRY HICKSON - VERTEX
Phone Number: W# 718-729-9489 Cell # 917-838-2595

DATE	TIME	MATRIX	FIELD I.D.	Sample Container Description: 40 mL VIALS (WATER)	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
7/5/02	2120	WATER	GW-10B MS/MSD		6	6					0207159-010	MS/MSD
	1350		GW-12		2	2					-011	
	1515		GW-13B		3	3					-012	
	1740		GW-14B		2	2					-013	
			KEK 7/22/02 as per Gerry Hickson									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	7/6/02	1200	[signature]	7/8/02	9:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

575 Broad [illegible]ow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

No. 559[illegible]

EXTERNAL CHAIN OF CUSTODY

CLIENT: Vertex (VES)

H2M SDG NO: VES007

PROJECT NAME/NUMBER
CARMEL Shop Rite
Project # 2538

SAMPLERS: (signature)/Client
JON KLINK

DELIVERABLES:
B5-70 ~~KK~~ 7/8/02

TURNAROUND TIME:
CALL GERRY HICKSON ~~21 days~~ * ~~REQUEST 5 DAY TAT~~

NOTES:
* 8260_W-TCL (SEL) (TCL+MTBE)
NOT PRESERVED W/ HCL
NYSDEC ASP CAT. B DELIVERABLE

Project Contact: GERRY HICKSON - VERTEX
Phone Number: W# 718-729-9489
Cell# 917 838-2595

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
7/5/02	—	WATER	TB070502	2	2					0207159-015	TRIP BLANKS
	1545		RB070502	2	2					-014	RINSEATE BLANK
	1505		GW-01	2	2					0207159-001	
	1510		GW-02	2	2					-002	
	1755		GW-03	2	2					-003	
	1735		GW-04B	2	2					-004	
	1230		GW-05B	2	2					-005	
	1530		GW-06B	2	2					-006	
	2315		GW-07	2	2					-007	
	2230		GW-08	2	2					-008	
	2205		GW-09	2	2					-009	

Sample Container Description → 40 mL Vials (unpres)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	7/6/02	1200		7/8/02	9:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VES007-37

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

C VES007

H2M LABS, INC.

Sample Receipt Checklist

Client Name **VES**

Date and Time Receive **7/8/2002 9:15:00 AM**

Work Order Numbe **0207159**

Received by **DLF**

Checklist completed b _____ 7-8-02 (Signature / Date)

Reviewed by KEK 7/8/02 (Initials / Date)

Matrix

Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐ 1 °C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b Fedex # 8284 8370 8951

Client contacted Vco Date contacted: 7/8/02 10:30 Person contacted Gerry Hickner Vertex

Contacted by: KEK Regarding _____

Comments: ① Cooler was not sent Saturday delivery - it was received 7/8.
② No custody tape on cooler - Notified
③ 5 day TAT requested on COC.

Corrective Action ① Sampler ran late (did not check off SAT DEL box - Temp was in specs when rcv'd Mon 7/8.
③ Wants quickest verbals we can give w/o surcharge - possibly 2 wks.

VES007 S8

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 21 days

SDG #: VES007 CASE #: _____ MATRIX: Aqueous pH CHECK Y or (N)

REMARKS: PIS# 47VES02

RECEIVED BY: DLF SIGNATURE: _____ DATE: 7/8/02 TIME: 9:15

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
GW-01	0207159-001A	7-5-02	D	2	ASPB5-8260_W (SGL)
" -02	002A				
" -03	003A				
" -04B	004A				
" -05B	005A				
" -06B	006A				
" -07	007A				
" -08	008A				
" -09	009A				
" -10B MS/MSD	010A			6	QD 7/22/02
" -12	011A			2	
" -13B	012A			3	
" -14B	013A			2	
" RB070502	014A				
" TB070502	015A				
"		DLF 7/8/02			
"					
"					
"					
"					

VOLATILE

P 0103

VES007 S9

H2M LABS, INC.

CLIENT: VES

SDG #: VES007

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
1/8/07	10:30	SIGN	SIGN	D	ANALYSIS	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 7/8/02
SDG #: VES007

For Samples:

GW-01	GW-06B	GW-12
GW-02	GW-07	GW-13B
GW-03	GW-08	GW-14B
GW-04B	GW-09	RB070502
GW-05B	GW-11B MS/MSD	TB070502

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for a select list of volatile organic analytes.

All QC data and the calibrations met the requirements of the protocol, and no problems were encountered with sample analysis. The following should be noted:

- Sample GW-11B was analyzed as the matrix spike/matrix spike duplicate.
- In both calibration verifications, % D for one of the regulated compounds exceeded 25% but was within the acceptance limit of 40%.
- Three samples were reanalyzed at a dilution, because the concentrations of targeted analytes exceeded the calibration range. Both sets of data are reported.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: July 24, 2002

****
* *
* *
****

Ursula Middel
Technical Manager

4. SAMPLE REPORTS

4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$\frac{(300\ U)}{D}$ x df where D = $\frac{100\%moisture}{100}$

and df - dilution factor

For example, at 24% moisture, D = $\frac{100-24}{100}$ = 0.76

$\frac{(300\ U)}{.76}$ x 10 - 4300 U rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take

appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9445.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	9	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-01

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9445.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-01

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9445.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9446.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	7	J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9446.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-02

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9446.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	C4 SUB BENZENE	10.87	11	J

VES007 S21

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9447.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	4	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	210	E
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9447.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-03

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9447.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000994-05-8	Butane, 2-methoxy-2-methyl-	5.63	8	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9466.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 2.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene chloride	20	U
67-64-1	Acetone	20	U
75-35-4	1,1-Dichloroethene	20	U
75-15-0	Carbon disulfide	6	DJ
75-34-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	20	U
1634-04-4	Methyl tert-butyl ether	210	D
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9466.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	20	U
1330-20-7	Xylene (total)	20	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-03DL

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9466.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 2.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9448.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	3	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	370	E
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9448.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-04B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9448.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VES007 S30

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04BDL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9469.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 4.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	40	U
74-83-9	Bromomethane	40	U
75-01-4	Vinyl chloride	40	U
75-00-3	Chloroethane	40	U
75-09-2	Methylene chloride	40	U
67-64-1	Acetone	40	U
75-35-4	1,1-Dichloroethene	40	U
75-15-0	Carbon disulfide	40	U
75-34-3	1,1-Dichloroethane	40	U
540-59-0	1,2-Dichloroethene (total)	40	U
67-66-3	Chloroform	40	U
1634-04-4	Methyl tert-butyl ether	40	U
107-06-2	1,2-Dichloroethane	40	U
78-93-3	2-Butanone	40	U
71-55-6	1,1,1-Trichloroethane	40	U
56-23-5	Carbon tetrachloride	40	U
75-27-4	Bromodichloromethane	40	U
78-87-5	1,2-Dichloropropane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
79-01-6	Trichloroethene	40	U
124-48-1	Dibromochloromethane	40	U
79-00-5	1,1,2-Trichloroethane	40	U
71-43-2	Benzene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
75-25-2	Bromoform	40	U
108-10-1	4-Methyl-2-pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	310	D
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-88-3	Toluene	40	U
108-90-7	Chlorobenzene	40	U
100-41-4	Ethylbenzene	40	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04BDL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9469.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 4.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	40	U
1330-20-7	Xylene (total)	40	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-04BDL

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9469.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 4.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9449.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9449.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-05B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9449.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9450.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	100	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9450.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-06B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9450.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9451.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	4	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	39	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

VES007 S40

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9451.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-07

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9451.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-08

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9452.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	140	
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-08

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9452.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-08

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9452.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9453.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	68	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9453.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-09

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER

Lab Sample ID: 0207159-009A

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

Lab File ID: 2V\F9453.D

Level: (low/med) LOW

Date Received: 07/08/02

% Moisture: not dec.

Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm)

Dilution Factor: 1.00

Soil Extract Volume: (µl)

Soil Aliquot Volume: 0 (µL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-11B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9454.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	6	J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	13	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-11B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9454.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-11B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9454.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-12

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9457.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-12

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9457.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-12

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER

Lab Sample ID: 0207159-011A

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

Lab File ID: 2V\F9457.D

Level: (low/med) LOW

Date Received: 07/08/02

% Moisture: not dec.

Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm)

Dilution Factor: 1.00

Soil Extract Volume: (µl)

Soil Aliquot Volume: 0 (µL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-13B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9458.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	11	
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-13B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9458.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-13B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9458.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-14B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-013A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9459.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	3	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	370	E
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-14B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-013A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9459.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-14B

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-013A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9459.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-14BDL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-013ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9470.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 4.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	40	U
74-83-9	Bromomethane	40	U
75-01-4	Vinyl chloride	40	U
75-00-3	Chloroethane	40	U
75-09-2	Methylene chloride	40	U
67-64-1	Acetone	40	U
75-35-4	1,1-Dichloroethene	40	U
75-15-0	Carbon disulfide	40	U
75-34-3	1,1-Dichloroethane	40	U
540-59-0	1,2-Dichloroethene (total)	40	U
67-66-3	Chloroform	40	U
1634-04-4	Methyl tert-butyl ether	40	U
107-06-2	1,2-Dichloroethane	40	U
78-93-3	2-Butanone	40	U
71-55-6	1,1,1-Trichloroethane	40	U
56-23-5	Carbon tetrachloride	40	U
75-27-4	Bromodichloromethane	40	U
78-87-5	1,2-Dichloropropane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
79-01-6	Trichloroethene	40	U
124-48-1	Dibromochloromethane	40	U
79-00-5	1,1,2-Trichloroethane	40	U
71-43-2	Benzene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
75-25-2	Bromoform	40	U
108-10-1	4-Methyl-2-pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	320	D
79-34-5	1,1,2,2-Tetrachloroethane	40	U
108-88-3	Toluene	40	U
108-90-7	Chlorobenzene	40	U
100-41-4	Ethylbenzene	40	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-14BDL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-013ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9470.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 4.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	40	U
1330-20-7	Xylene (total)	40	U

1F

EPA SAMPLE NO.

GW-14BDL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-013ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9470.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 4.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB070502

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-014A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9460.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB070502

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-014A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9460.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB070502

Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-014A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9460.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB070502

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-015A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9444.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	27	
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

VES007 S67

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB070502

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-015A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9444.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VES007 S68

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB070502

Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: 0207159-015A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9444.D

Level: (low/med) LOW Date Received: 07/08/02

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. SDG No.: VES007

	EPA SAMPLE NO.	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	Other	TOT OUT
01	VBLK071102	98	104	94		0
02	LFB071102	104	102	100		0
03	MSB071102	108	100	92		0
04	TB070502	104	102	90		0
05	GW-01	96	104	92		0
06	GW-02	96	102	92		0
07	GW-03	94	104	92		0
08	GW-04B	102	100	90		0
09	GW-05B	98	102	94		0
10	GW-06B	86	102	90		0
11	GW-07	92	102	92		0
12	GW-08	98	102	90		0
13	GW-09	100	102	90		0
14	GW-11B	98	102	90		0
15	GW-11BMS	106	102	92		0
16	GW-11BMSD	100	102	92		0
17	GW-12	100	102	90		0
18	GW-13B	98	102	92		0
19	GW-14B	96	102	90		0
20	RB070502	96	102	94		0
21	VHBLK	88	104	94		0
22	VBLK071202	102	100	90		0
23	GW-03DL	110	100	91		0
24	GW-04BDL	100	100	90		0
25	GW-14BDL	95	100	90		0

			QC Limits
SMC 1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC 2	TOL	= Toluene-d8	(88-110)
SMC 3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES007

Matrix Spike - EPA Sample No.: GW-11B

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	34	68	61-145
Trichloroethene	50	0	47	94	71-120
Benzene	50	0	37	74*	76-127
Toluene	50	0	49	98	76-125
Chlorobenzene	50	0	49	98	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	34	68	0	14	61-145
Trichloroethene	50	45	90	4	14	71-120
Benzene	50	39	78	5	11	76-127
Toluene	50	47	94	4	13	76-125
Chlorobenzene	50	48	96	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES007

Sample ID LFB071102 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	46	92	70-114
Bromomethane	50	0	49	98	50-136
Vinyl chloride	50	0	46	92	66-117
Chloroethane	50	0	49	98	71-116
Methylene chloride	50	0	51	102	80-112
Acetone	50	0	54	108	71-125
1,1-Dichloroethene	50	0	48	96	67-120
Carbon disulfide	50	0	49	98	61-126
1,1-Dichloroethane	50	0	51	102	77-114
1,2-Dichloroethene (total)	100	0	99	99	78-128
Chloroform	50	0	51	102	75-119
Methyl tert-butyl ether	50	0	53	106	78-140
1,2-Dichloroethane	50	0	50	100	76-120
2-Butanone	50	0	55	110	74-121
1,1,1-Trichloroethane	50	0	45	90	66-126
Carbon tetrachloride	50	0	45	90	64-126
Bromodichloromethane	50	0	48	96	78-118
1,2-Dichloropropane	50	0	48	98	81-115
cis-1,3-Dichloropropene	50	0	49	98	79-116
Trichloroethene	50	0	47	94	72-121
Dibromochloromethane	50	0	49	98	75-125
1,1,2-Trichloroethane	50	0	49	98	82-116
Benzene	50	0	48	96	77-116
trans-1,3-Dichloropropene	50	0	49	98	77-120
Bromoform	50	0	48	96	75-121
4-Methyl-2-pentanone	50	0	53	106	79-121
2-Hexanone	50	0	53	106	76-119
Tetrachloroethene	50	0	47	94	59-133
1,1,2,2-Tetrachloroethane	50	0	51	102	77-120
Toluene	50	0	49	98	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 34 outside limits

COMMENTS: GD 7/16/02

FORM III SW8260B

VES007 S74

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES007

Sample ID LFB071102 Level: (low/med) LOW

Chlorobenzene	50	0	49	98	72-124
Ethylbenzene	50	0	49	98	68-128
Styrene	50	0	48	98	72-124
Xylene (total)	150	0	140	93	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 34 outside limits

COMMENTS: JED 7/16/02

FORM III SW8260B

VES007 S75

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES007

Sample ID MSB071102 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	36	72	61-145
Trichloroethene	50	0	46	92	71-120
Benzene	50	0	40	80	76-127
Toluene	50	0	45	90	76-125
Chlorobenzene	50	0	47	94	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____ SED 7/16/02

FORM III SW8260B

VES007 S76

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK071102

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. SDG No.: VES007

Lab File ID: 2V\F9441.D Lab Sample ID: VBLK071102

Date Analyzed: 07/11/02 Time Analyzed: 13:52

GC Column: HP-VOC ID: .2 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB071102	LFB071102	2V\F9442.D	14:22
02	MSB071102	MSB071102	2V\F9443.D	14:50
03	TB070502	0207159-015A	2V\F9444.D	15:17
04	GW-01	0207159-001A	2V\F9445.D	15:47
05	GW-02	0207159-002A	2V\F9446.D	16:15
06	GW-03	0207159-003A	2V\F9447.D	16:42
07	GW-04B	0207159-004A	2V\F9448.D	17:10
08	GW-05B	0207159-005A	2V\F9449.D	17:37
09	GW-06B	0207159-006A	2V\F9450.D	18:03
10	GW-07	0207159-007A	2V\F9451.D	18:31
11	GW-08	0207159-008A	2V\F9452.D	18:58
12	GW-09	0207159-009A	2V\F9453.D	19:25
13	GW-11B	0207159-010A	2V\F9454.D	19:52
14	GW-11BMS	0207159-010AMS	2V\F9455.D	20:20
15	GW-11BMSD	0207159-010AMSD	2V\F9456.D	20:45
16	GW-12	0207159-011A	2V\F9457.D	21:12
17	GW-13B	0207159-012A	2V\F9458.D	21:39
18	GW-14B	0207159-013A	2V\F9459.D	22:06
19	RB070502	0207159-014A	2V\F9460.D	22:33
20	VHBLK	VHBLK	2V\F9461.D	23:00

COMMENTS: _____

_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071102

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: VBLK071102

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9441.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071102

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: VBLK071102

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9441.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VES007 S80

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK071102

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: VBLK071102

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9441.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/11/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK071202

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. SDG No.: VES007

Lab File ID: 2V\F9464.D Lab Sample ID: VBLK071202

Date Analyzed: 07/12/02 Time Analyzed: 10:42

GC Column: HP-VOC ID: .2 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-03DL	0207159-003A	2V\F9466.D	11:43
02	GW-04BDL	0207159-004A	2V\F9469.D	13:10
03	GW-14BDL	0207159-013A	2V\F9470.D	13:37

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071202

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: VBLK071202

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9464.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK071202

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: SDG No.: VES007

Matrix: (soil/water) WATER Lab Sample ID: VBLK071202

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9464.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK071202

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. SDG No. VES007

Matrix: (soil/water) WATER Lab Sample ID: VBLK071202

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2V\F9464.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/12/02

GC Column HP-VOCOL ID .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. SDG No.: VES007

Lab File ID (Standard): 2V\F9440.D Date Analyzed: 07/11/02

EPA Sample No.(VSTD050##) VSTD050 Time Analyzed: 13:17

Instrument ID: HP5973-1 Heated Purge: (Y/N) N

GC Column: HP-VOC ID: .2 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	23366	4.82	146514	5.77	136294	8.54
	UPPER LIMIT	46732	5.32	293028	6.27	272588	9.04
	LOWER LIMIT	11683	4.32	73257	5.27	68147	8.04
	EPA SAMPLE						
01	VBLK071102	21927	4.81	145904	5.77	127910	8.54
02	LFB071102	21984	4.82	147851	5.78	133328	8.54
03	MSB071102	22157	4.82	151751	5.78	132992	8.54
04	TB070502	22449	4.81	144954	5.78	129383	8.54
05	GW-01	22127	4.81	140288	5.78	124950	8.54
06	GW-02	21970	4.82	141875	5.77	127839	8.54
07	GW-03	22377	4.82	143243	5.77	123723	8.54
08	GW-04B	21102	4.82	141180	5.77	127020	8.54
09	GW-05B	21303	4.81	140674	5.77	124635	8.54
10	GW-06B	24381	4.82	141024	5.77	125465	8.54
11	GW-07	21929	4.81	135591	5.77	122150	8.54
12	GW-08	21046	4.82	136581	5.78	122066	8.54
13	GW-09	20990	4.82	141570	5.78	126481	8.54
14	GW-11B	20929	4.81	133972	5.78	122017	8.54
15	GW-11BMS	21493	4.82	138665	5.78	124387	8.54
16	GW-11BMSD	20551	4.82	139309	5.77	122626	8.54
17	GW-12	20980	4.82	136053	5.78	123008	8.54
18	GW-13B	20835	4.81	136826	5.78	122737	8.54
19	GW-14B	21032	4.82	136480	5.78	124939	8.54
20	RB070502	21454	4.82	135435	5.78	122075	8.54
21	VHBLK	23017	4.82	133944	5.77	119530	8.54

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. SDG No.: VES007

Lab File ID (Standard): 2V\F9463.D Date Analyzed: 07/12/02

EPA Sample No.(VSTD050##) VSTD050 Time Analyzed: 9:52

Instrument ID: HP5973-1 Heated Purge: (Y/N) N

GC Column: HP-VOC ID: .2 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	22408	4.82	135378	5.78	133175	8.54
	UPPER LIMIT	44816	5.32	270756	6.28	266350	9.04
	LOWER LIMIT	11204	4.32	67689	5.28	66588	8.04
	EPA SAMPLE						
01	VBLK071202	22239	4.82	146196	5.78	131004	8.54
02	GW-03DL	21680	4.82	143625	5.78	126746	8.54
03	GW-04BDL	21412	4.82	136934	5.78	122908	8.54
04	GW-14BDL	21396	4.81	138088	5.78	123668	8.54

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

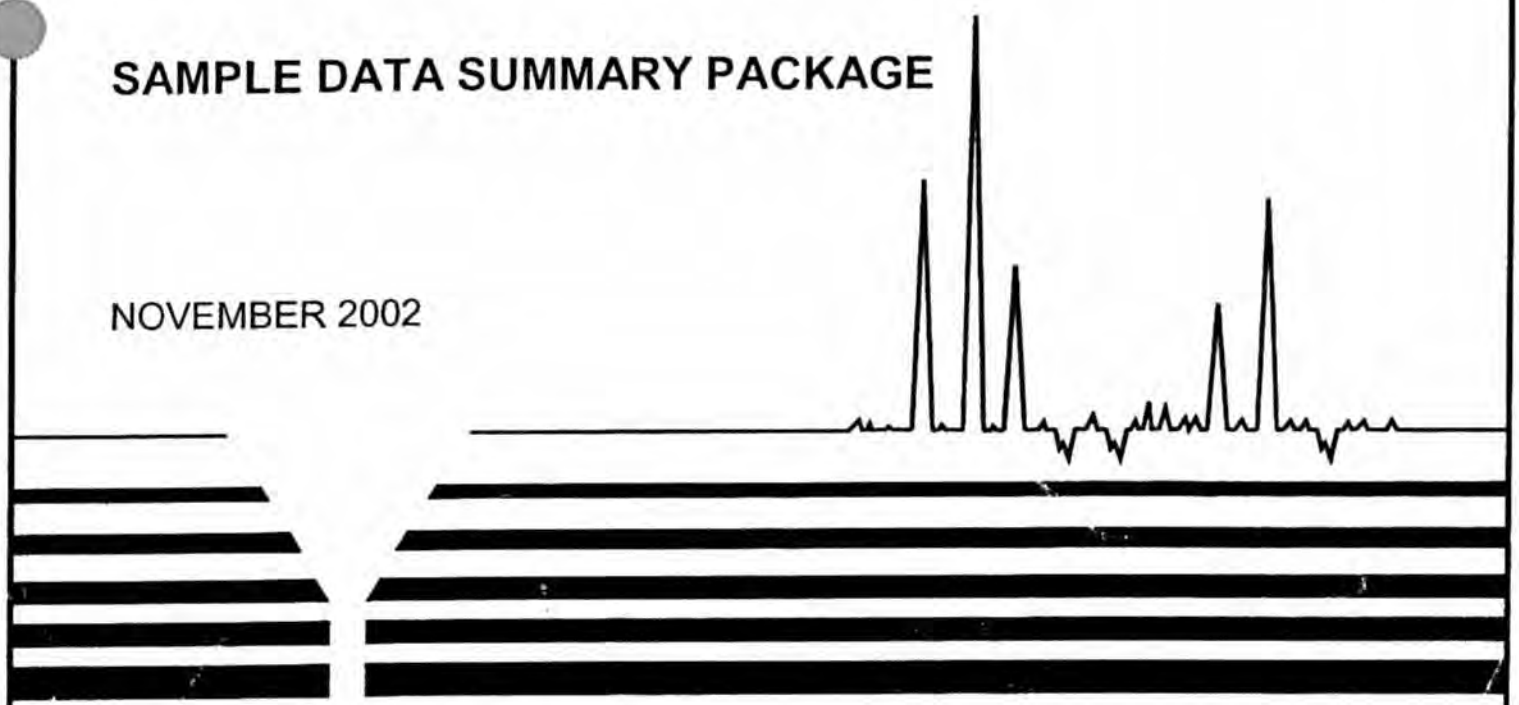
Analytical Data Package For

VERTEX ENGINEERING
SDG NO: VES008

Water Samples
Received: 11/5/02

SAMPLE DATA SUMMARY PACKAGE

NOVEMBER 2002



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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VERTEX
CARMEL PROJECT 2538
SAMPLES RECEIVED: 11/5/02
SDG NO.: VES008

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5. SURROGATE SPIKE ANALYSIS RESULTS
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8. INTERNAL STANDARD AREA DATA
   8.1 VOLATILES

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
WATER SAMPLES
SDG NO.: VES008
SAMPLES RECEIVED: 11/5/02

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PEST/ PCB	*METALS	OTHER
GW-02	0211133-001	X					
GW-03	0211133-002	X					
GW-04B	0211133-003	X					
GW-05B	0211133-004	X					
GW-06B	0211133-005	X					
GW-07	0211133-006	X					
GW-08	0211133-007	X					
GW-09	0211133-008	X					
GW-11B	0211133-009	X					
GW-12	0211133-010	X					
GW-14	0211133-011	X					
RB110202	0211133-012	X					
TB110202	0211133-013	X					

* Check Appropriate Boxes
* CLP, Non-CLP (Please indicate year of protocol) ~~ASP~~ 2 1995
* TCL/TAL, HCL, TS

VOLATILE SAMPLE ANALYSIS SUMMARY

Sample ID	DF	Matrix	Date Collected	Date Received	Level	Date Analyzed
GW-02	1	Aq	03-Nov-02	05-Nov-02	Low	08-Nov-02
GW-02DL	2	Aq	03-Nov-02	05-Nov-02	Low	09-Nov-02
GW-03	1	Aq	03-Nov-02	05-Nov-02	Low	08-Nov-02
GW-03DL	2	Aq	03-Nov-02	05-Nov-02	Low	09-Nov-02
GW-04B	1	Aq	03-Nov-02	05-Nov-02	Low	08-Nov-02
GW-05B	1	Aq	03-Nov-02	05-Nov-02	Low	10-Nov-02
GW-06B	1	Aq	03-Nov-02	05-Nov-02	Low	09-Nov-02
GW-07	1	Aq	02-Nov-02	05-Nov-02	Low	09-Nov-02
GW-08	1	Aq	02-Nov-02	05-Nov-02	Low	09-Nov-02
GW-09	1	Aq	02-Nov-02	05-Nov-02	Low	09-Nov-02
GW-09MS	1	Aq	02-Nov-02	05-Nov-02	Low	08-Nov-02
GW-09MSD	1	Aq	02-Nov-02	05-Nov-02	Low	08-Nov-02
GW-11B	1	Aq	02-Nov-02	05-Nov-02	Low	09-Nov-02
GW-12	1	Aq	02-Nov-02	05-Nov-02	Low	09-Nov-02
GW-14	1	Aq	02-Nov-02	05-Nov-02	Low	09-Nov-02
RB110202	1	Aq	02-Nov-02	05-Nov-02	Low	09-Nov-02
TB110202	1	Aq	02-Nov-02	05-Nov-02	Low	10-Nov-02

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.
575 Broadhollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

No. 53[redacted]

EXTERNAL CHAIN OF CUSTODY

CLIENT: Vertex (VES)

H2M SDG NO: 008

PROJECT NAME/NUMBER
CARMEL SHOP-RITE CENTER
PROJECT # 2538

SAMPLERS: (signature)/Client
[signature] / VERTEX ENGINEERING SERVICES, INC.

DELIVERABLES:
NYSDEC ASP CATEGORY B

TURNAROUND TIME: 21 DAYS

NOTES:
NOT PRESERVED W/ HCL

Project Contact: GREGG DEHNER

Phone Number: (781) 952-6000

VOCs 8260 + MTBE
ASP CATEGORY B DEL.

DATE	TIME	MATRIX	FIELD I.D.	Sample Container Description	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
11/2/02	1100	WATER	GW-04B	40ml vials	2	2					021133-003	HIGH?
	1115		GW-14		2	2					011	
	1145		GW-12		2	2					010	
	1330		GW-11B		2	2					009	
	1400		GW-09 MS/MSD		6	6					008	MS/MSD
	1525		RB110202		2	2					012	RINSATE BLANK
	1530		GW-08		2	2					007	HIGH?
	1600		GW-07		2	2					006	
11/3/02	0945		GW-06B		2	2					005	HIGH?
	1030		GW-02		2	2					001	
	1100		GW-05B		2	2					004	

Relinquished by: (Signature) [signature]	Date 11/4/02	Time 0900	Received by: (Signature) [signature]	Date 11/5/02	Time 0900
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped (Y) or Hand Delivered ___ Airbill# _____
2. Ambient or chilled (Y) or N
3. Received in good condition (Y) or N
4. Properly preserved: (Y) or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package (Y) or N
2. Unbroken on outer package: (Y) or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

575 Broadhollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

No. 53[redacted] EXTERNAL CHAIN OF CUSTODY

CLIENT: VERTEX (VES)

H2M SDG NO: 008

PROJECT NAME/NUMBER
CAMMEL SHOP-RITE CENTER
PROJECT # 2538

SAMPLERS: (signature)/Client
[signature] / VERTEX

DELIVERABLES: NYSDEC ASP CAT. B

TURNAROUND TIME: 21 DAYS

NOTES: NOT PRESERVED W/ HCL

Project Contact: GREGG DEHNER

Phone Number: (781) 952-6000

VOCs 8260 + MTBE
ASP CATEGORY B DEL.

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description	ANALYSIS REQUESTED ORGANIC VOA	BNA	Pest/PCB	INORG. Metal	CN	LAB I.D. NO.	REMARKS:
11/2/02	—	WATER	TB110202	2	40 ML VIALS	2					0211133-013	TRIP BLANK
11/2/02	1120	WATER	GW-03	2		2					002	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/4/02	0900	[signature]	11/5/02	0900
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

VES008.87

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

C

VES008

H2M LABS, INC.

Sample Receipt Checklist

Client Name VES

Date and Time Receive 11/5/2002 9:00:00 AM

Work Order Numbe 0211133

Received by LSD

Checklist completed b LSDorr (Signature) 11/5/02 (Date)

Reviewed by DLF (Initials) 11/6/02 (Date)

Matrix

Carrier name FedEx 820587972920

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
[illegible]mples received within holding time?	Yes ☑	No ☐	
[illegible]tainer/Temp Blank temperature in compliance?	Yes ☑	No ☐ 16°	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted VES Date contacted: 11/6 Person contacted Gregg D.

Contacted by: DLF Regarding PID readings

Comments: No PID readings provided

Corrective Action VES did not take PID readings on these samples. Possible high readings could be GW-04, GW-06, GW-08, as seen in previous results.

VES008 S 8

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 21 Days

SDG #: VES008 CASE #: _____ MATRIX: _____ pH CHECK Y or N

REMARKS: 93VES02 * Sample may have high levels of PLEITCE *

RECEIVED BY: LSD SIGNATURE: [signature] DATE: 11/5/02 TIME: 0900

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
GW-02	0211133-001A	11.3.02	D	2	ASPBS-8260_W (SEL)
" 03	002A	11.2.02			
" 04B	003A	↓			
" 05B	004A	11.3.02			
" 06B	005A	↓			
" 07	006A	11.2.02			
" 08	007A			↓	
" 09 MS/SD	008A			6	
" 11B	009A			2	
" 12	010A				
" ↓ 14	011A				
" RB110202	012A				
" TB110202	013A	↓	↓	↓	↓
"					
"					
"		LSD 11/5/02			
"					
"					
"					
"					

VOLATILE

P 0232

VES008 S 9

H2M LABS, INC.

CLIENT: VES

SDG #: VES008

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
1/9/02	1600	SIGN	SIGN	D	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

P 0233

VES008 S 10

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 11/5/02
SDG #: VES008

For Samples:

GW-02	GW-07	GW-14
GW-03	GW-08	RB110202
GW-04B	GW-09 MS/MSD	TB110202
GW-05B	GW-11B	
GW-06B	GW-12	

The above water samples were analyzed for a select list of volatile organic analytes by EPA method 8260B, according to the requirements of the NYSDEC ASP 10/95.

Recoveries for 2-butanone and 2-hexanone in the lab fortified blank (LFB) slightly exceeded the QC limits.

All other QC data and the calibrations met the requirements of the protocol. The following should be noted:

- Sample GW-09 was analyzed as the matrix spike/matrix spike duplicate.
- Two samples were reanalyzed at a dilution, because the concentrations of targeted analytes exceeded the calibration range. Both sets of data are reported.
- TICs were found that are suspected to be column bleed from the analytical column. They were flagged with the qualifier "X".

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: November 22, 2002

****
* *
* *
****

Ursula Middel
Technical Manager

12/2/02

VES008 SDG

4. SAMPLE REPORTS

4.1 VOLATILES

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\%moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 - 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22403.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	37	B U
67-64-1	Acetone	34	J
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	13	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	320	E J
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	19	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22403.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-02

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22403.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 9 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (8.95)	8.95	15	J
2.	unknown alcohol (11.31)	11.31	22	J
3.	unknown siloxane	16.44	6	JX
4.	unknown (17.61)	17.61	6	J
5.	unknown (18.18)	18.18	17	J
6. 000104-76-7	1-Hexanol, 2-ethyl-	18.84	9	NJ
7.	unknown sulfide	19.33	19	J
8. 000111-85-3	Octane, 1-chloro-	19.52	7	NJ
9.	unknown alcohol (19.6)	19.60	7	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22417.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 2.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene chloride	52	B U
67-64-1	Acetone	31	
75-35-4	1,1-Dichloroethene	20	U
75-15-0	Carbon disulfide	20	U
75-34-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	240	
1634-04-4	Methyl tert-butyl ether	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	17	J J
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22417.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U

VES008 S 20

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-02DL

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22417.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 2.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 3 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	9.06	10	J
2.	unknown alcohol	11.42	25	J
3.	unknown cyclic	18.29	14	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22404.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	33	B U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	240	E
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22404.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-03

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22404.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000994-05-8	Butane, 2-methoxy-2-methyl-	11.42	12	NJ

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22418.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene chloride	20	U
67-64-1	Acetone	51	B U
75-35-4	1,1-Dichloroethene	20	U
75-15-0	Carbon disulfide	20	U
75-34-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	20	U
1634-04-4	Methyl tert-butyl ether	20	U
107-06-2	1,2-Dichloroethane	190	
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22418.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 2.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Xylene (total)	20	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-03DL

Lab Name H2M LABS, INC. Contract

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22418.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 2.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown oxygenated hydrocarbon	11.49	14	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22405.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

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

CAS NO.	COMPOUND	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	34	B U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22405.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	8	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-04B

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22405.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22439.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	26	B J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22439.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	8	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-05B

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22439.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22419.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	26	B U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22419.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	170	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-06B

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22419.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22420.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	25	BU
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22420.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	67	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-07

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22420.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-08

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22421.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	26	B U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-08

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22421.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	97	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-08

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22421.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22422.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	25	B U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22422.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	51	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-09

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22422.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-11B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22423.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	26	B U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-11B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22423.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	14	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-11B

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22423.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-12

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22424.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	24	B U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-12

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22424.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VES008 S 50

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-12

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22424.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-14

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22425.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	24	B U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-14

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22425.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	8	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-14

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22425.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB110202

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22426.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	26	B J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB110202

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22426.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB110202

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22426.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	6.21	5	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB110202

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-013A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22438.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	27	B J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB110202

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-013A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22438.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB110202

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: 0211133-013A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22438.D

Level: (low/med) LOW Date Received: 11/05/02

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced by SDG No.: VES008

	EPA SAMPLE NO.	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	Other	TOT OUT
01	VBLK110802	100	99	95		0
02	LFB110802	106	101	98		0
03	MSB110802	100	108	101		0
04	GW-09MS	109	106	102		0
05	GW-09MSD	118 *	105	101		1
06	GW-02	119 *	104	102		1
07	GW-03	112	106	101		0
08	GW-04B	112	107	101		0
09	VBLK110902	86	89	92		0
10	GW-02DL	82	91	91		0
11	GW-03DL	86	93	93		0
12	GW-06B	87	91	90		0
13	GW-07	84	89	90		0
14	GW-08	82	90	93		0
15	GW-09	86	88	90		0
16	GW-11B	89	90	93		0
17	GW-12	101	97	102		0
18	GW-14	90	90	91		0
19	RB110202	90	89	91		0
20	VBLK111002	104	103	105		0
21	TB110202	109	102	101		0
22	GW-05B	104	100	101		0

			QC Limits
SMC 1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC 2	TOL	= Toluene-d8	(88-110)
SMC 3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced SDG No.: VES008

Matrix Spike - EPA Sample No.: Blank Spike

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	57	114	61-145
Trichloroethene	50	0	53	105	71-120
Benzene	50	0	53	107	76-127
Toluene	50	0	51	103	76-125
Chlorobenzene	50	0	50	101	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	62	125	9	14	61-145
Trichloroethene	50	51	101	4	14	71-120
Benzene	50	51	102	5	11	76-127
Toluene	50	50	101	2	13	76-125
Chlorobenzene	50	48	96	5	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced SDG No.: VES008

Sample ID LFB110802 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	54	108	70-114
Bromomethane	50	0	48	97	50-136
Vinyl chloride	50	0	53	106	66-117
Chloroethane	50	0	51	101	71-116
Methylene chloride	50	0	56	111	80-112
Acetone	50	0	57	115	71-125
1,1-Dichloroethene	50	0	53	105	67-120
Carbon disulfide	50	0	52	104	61-126
1,1-Dichloroethane	50	0	52	104	77-114
1,2-Dichloroethene (total)	100	0	100	103	78-128
Chloroform	50	0	51	101	75-119
Methyl tert-butyl ether	50	0	55	109	78-140
1,2-Dichloroethane	50	0	51	102	76-120
2-Butanone	50	0	62	123*	74-121
1,1,1-Trichloroethane	50	0	50	99	66-126
Carbon tetrachloride	50	0	49	98	64-126
Bromodichloromethane	50	0	47	94	78-118
1,2-Dichloropropane	50	0	50	99	81-115
cis-1,3-Dichloropropene	50	0	48	95	79-116
Trichloroethene	50	0	48	97	72-121
Dibromochloromethane	50	0	46	92	75-125
1,1,2-Trichloroethane	50	0	48	96	82-116
Benzene	50	0	53	105	77-116
trans-1,3-Dichloropropene	50	0	48	97	77-120
Bromoform	50	0	46	93	75-121
4-Methyl-2-pentanone	50	0	58	117	79-121
2-Hexanone	50	0	61	122*	76-119
Tetrachloroethene	50	0	46	91	59-133
1,1,2,2-Tetrachloroethane	50	0	52	103	77-120
Toluene	50	0	51	102	70-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 34 (of 40) outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced SDG No.: VES008

Sample ID LFB110802 Level: (low/med) LOW

Chlorobenzene	50	0	48	95	72-124
Ethylbenzene	50	0	49	98	68-128
Styrene	50	0	47	95	72-124
Xylene (total)	150	0	150	102	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 34 AF 6/2402 outside limits

COMMENTS: _____

FORM III SW8260B

VES008 S 66

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: Priced SDG No.: VES008

Sample ID MSB110802 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	48	96	61-145
Trichloroethene	50	0	46	92	71-120
Benzene	50	0	47	95	76-127
Toluene	50	0	47	94	76-125
Chlorobenzene	50	0	45	90	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 0 outside limits

COMMENTS: _____

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK110802

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. Priced b SDG No.: VES008

Lab File ID: 2\P22396.D Lab Sample ID: VBLK110802

Date Analyzed: 11/08/02 Time Analyzed: 20:54

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB110802	LFB110802	2\P22397.D	21:31
02	MSB110802	MSB110802	2\P22400.D	23:34
03	GW-09MS	0211133-008AMS	2\P22401.D	0:07
04	GW-09MSD	0211133-008AMSD	2\P22402.D	0:39
05	GW-02	0211133-001A	2\P22403.D	1:12
06	GW-03	0211133-002A	2\P22404.D	1:44
07	GW-04B	0211133-003A	2\P22405.D	2:17

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK110802

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK110802

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22396.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/08/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	35	
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK110802

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK110802

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22396.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/08/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK110802

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK110802

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22396.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/08/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK110902

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. Priced b SDG No.: VES008

Lab File ID: 2\P22416.D Lab Sample ID: VBLK110902

Date Analyzed: 11/09/02 Time Analyzed: 23:24

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GW-02DL	0211133-001ADL	2\P22417.D	23:55
02	GW-03DL	0211133-002ADL	2\P22418.D	0:27
03	GW-06B	0211133-005A	2\P22419.D	0:59
04	GW-07	0211133-006A	2\P22420.D	1:31
05	GW-08	0211133-007A	2\P22421.D	2:03
06	GW-09	0211133-008A	2\P22422.D	2:35
07	GW-11B	0211133-009A	2\P22423.D	3:07
08	GW-12	0211133-010A	2\P22424.D	3:39
09	GW-14	0211133-011A	2\P22425.D	4:11
10	RB110202	0211133-012A	2\P22426.D	4:43

COMMENTS: _____

_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK110902

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK110902

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22416.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	29	
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK110902

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK110902

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22416.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK110902

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK110902

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22416.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/09/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK111002

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. Priced b SDG No.: VES008

Lab File ID: 2\P22437.D Lab Sample ID: VBLK111002

Date Analyzed: 11/10/02 Time Analyzed: 17:09

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TB110202	0211133-013A	2\P22438.D	17:45
02	GW-05B	0211133-004A	2\P22439.D	18:47

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK111002

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK111002

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22437.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	26	
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
1634-04-4	Methyl tert-butyl ether	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK111002

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: Priced by VIS SDG No.: VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK111002

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22437.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK111002

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. Priced by V SDG No. VES008

Matrix: (soil/water) WATER Lab Sample ID: VBLK111002

Sample wt/vol: 5 (g/mL) ML Lab File ID: 2\P22437.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/10/02

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. Priced b SDG No.: VES008

Lab File ID (Standard): 2\P22395.D Date Analyzed: 11/08/02

EPA Sample No. (VSTD050##): VSTD050 Time Analyzed: 20:16

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	143275	11.09	551537	12.18	431537	16.3
	UPPER LIMIT	286550	11.59	1103074	12.68	863074	16.8
	LOWER LIMIT	71638	10.59	275769	11.68	215769	15.8
	EPA SAMPLE						
01	VBLK110802	155421	11.00	620442	12.09	481193	16.18
02	LFB110802	159774	10.93	619319	12.00	469490	16.11
03	MSB110802	156642	10.90	602820	12.00	442571	16.10
04	GW-09MS	148970	10.92	599593	12.01	450282	16.12
05	GW-09MSD	131540	10.89	577419	11.99	430598	16.09
06	GW-02	133234	10.90	573209	11.98	440670	16.09
07	GW-03	137460	10.91	568999	11.99	434904	16.10
08	GW-04B	140928	10.91	571920	12.01	435937	16.11

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. Priced b SDG No.: VES008

Lab File ID (Standard): 2\P22415.D Date Analyzed: 11/09/02

EPA Sample No. (VSTD050##): VSTD050 Time Analyzed: 22:52

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	150190	11.05	588011	12.15	460618	16.26
	UPPER LIMIT	300380	11.55	1176022	12.65	921236	16.76
	LOWER LIMIT	75095	10.55	294006	11.65	230309	15.76
	EPA SAMPLE						
01	VBLK110902	147867	11.00	601978	12.10	465390	16.21
02	GW-02DL	151108	11.01	591716	12.10	446457	16.19
03	GW-03DL	143888	10.99	570144	12.09	430784	16.19
04	GW-06B	141485	11.00	576264	12.09	434772	16.20
05	GW-07	144746	11.01	574907	12.09	447007	16.19
06	GW-08	142680	11.00	560981	12.08	427224	16.17
07	GW-09	146657	10.98	589102	12.06	432967	16.17
08	GW-11B	140039	10.98	557305	12.07	424610	16.17
09	GW-12	140551	10.98	554092	12.07	438292	16.17
10	GW-14	135028	10.98	537763	12.08	427212	16.17
11	RB110202	131466	11.00	538922	12.09	426750	16.17

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. Priced b SDG No.: VES008

Lab File ID (Standard): 2\P22436.D Date Analyzed: 11/10/02

EPA Sample No. (VSTD050##): VSTD050 Time Analyzed: 16:37

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	144349	10.93	561042	12.03	450772	16.11
	UPPER LIMIT	288698	11.43	1122084	12.53	901544	16.61
	LOWER LIMIT	72175	10.43	280521	11.53	225386	15.61
	EPA SAMPLE						
01	VBLK111002	133830	10.92	551521	12.00	429246	16.09
02	TB110202	125913	10.97	511703	12.05	417524	16.14
03	GW-05B	126683	10.99	514538	12.08	417858	16.17

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

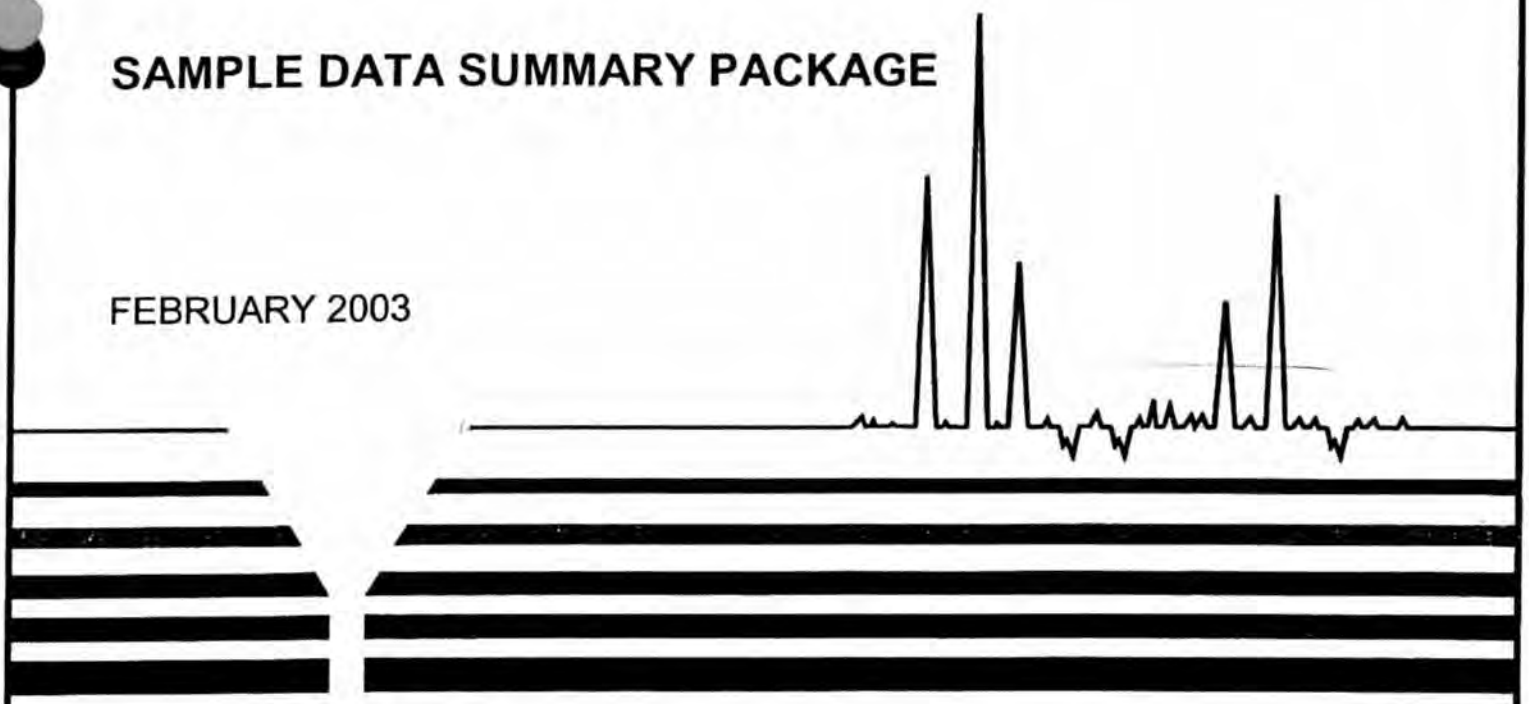
Analytical Data Package For

VERTEX ENGINEERING
SDG NO: VES009

Water Samples
Received: 2/12/03 & 2/14/03

SAMPLE DATA SUMMARY PACKAGE

FEBRUARY 2003



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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SAMPLES RECEIVED: 2/12/03 & 2/14/03
SDG NO.: VES009

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1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
WATER SAMPLES
SDG NO.: VES009
SAMPLES RECEIVED: 2/12/03 & 2/14/03

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PEST/ PCB	*METALS	OTHER
FB-2-13-03	0302353-005	X					
GW-02	0302353-001	X					
GW-03	0302313-001	X					
GW-04B	0302313-002	X					
GW-05	0302313-003	X					
GW-06B	0302313-004	X					
GW-07	0302353-002	X					
GW-09	0302313-005	X					
GW-11B	0302313-006	X					
GW-12	0302313-007	X					
GW-13B	0302353-003	X					
[redacted]-20	0302353-004	X					
[redacted] BLANK	0302313-008	X					

* Check Appropriate Boxes
* CLP, Non-CLP (Please indicate year of protocol) ASP B 10/95
* TCL/TAL, HCL, TS

VOLATILE SAMPLE ANALYSIS SUMMARY

			VES009		
EPAsampID	Matrix	Date Collected	Date Received	Level	Date Analyzed
FB-2-13-03	WATER	13-Feb-03	14-Feb-03	LOW	21-Feb-03
GW-02	WATER	13-Feb-03	14-Feb-03	LOW	21-Feb-03
GW-03	WATER	12-Feb-03	12-Feb-03	LOW	20-Feb-03
GW-04B	WATER	12-Feb-03	12-Feb-03	LOW	20-Feb-03
GW-05	WATER	12-Feb-03	12-Feb-03	LOW	21-Feb-03
GW-06B	WATER	12-Feb-03	12-Feb-03	LOW	21-Feb-03
GW-07	WATER	13-Feb-03	14-Feb-03	LOW	22-Feb-03
GW-09	WATER	11-Feb-03	12-Feb-03	LOW	20-Feb-03
GW-09MS	WATER	11-Feb-03	12-Feb-03	LOW	20-Feb-03
GW-09MSD	WATER	11-Feb-03	12-Feb-03	LOW	20-Feb-03
GW-11B	WATER	12-Feb-03	12-Feb-03	LOW	21-Feb-03
GW-12	WATER	12-Feb-03	12-Feb-03	LOW	21-Feb-03
GW-13B	WATER	13-Feb-03	14-Feb-03	LOW	21-Feb-03
GW-20	WATER	13-Feb-03	14 ~~13~~-Feb-03	LOW	21-Feb-03
TRIP BLANK	WATER	12-Feb-03	12-Feb-03	LOW	21-Feb-03
			3/5/03		

VES009 S4

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

No. 618[redacted] **EXTERNAL CHAIN OF CUSTODY**[redacted]

CLIENT: VES | **H2M SDG NO:** VES009

PROJECT NAME/NUMBER: CARMEL SHOP-RITE CENTER 4148

SAMPLERS: (signature)/Client: [redacted] KAVANAUGH

DELIVERABLES:

TURNAROUND TIME:

Sample Container Description: 40 ml vial w/HCl | 250 ml w/HDPE

Total No. of Containers | ANALYSIS REQUESTED | ORGANIC: VOA, BNA, Pest/PCB, NO3 | INORG.: Metal, CN

DATE	TIME	MATRIX	FIELD I.D.	VOA	BNA	Pest/PCB	NO3	Metal	CN	LAB I.D. NO.	REMARKS:
2/12	845		GW-03	2						0302313-001	
11	1010		GW-04B MS/MSD (KE)	6						002	
	1330		GW-05	2						003	
	1203		GW-06B	2						004	Nitrates:
2/11	1708		GW-09 MS/MSD	2			1			005	0302312-001A
2/12	1145		GW-11B	2			1			006	↓ 002A
2/12	1453		GW-12	2						007	
			KE 2/13/03								
				2						0302313-008	TB

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
ADRIAN KAVANAUGH	2/12	1935	[redacted]	2/13/03	19:35
[redacted]	2/13/03	9:15	[redacted]	2/13/03	9:15

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# _____
2. Ambient or Chilled
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or (N)

VES009 S6

WHITE COPY - ORIGINAL | YELLOW COPY - CLIENT | PINK COPY - LABORATORY

VES009

H2M LABS, INC.

Sample Receipt Checklist

Client Name VES | Date and Time Receive 2/12/2003 7:35:00 PM

Work Order Numbe 0302313 | Received by SD

Checklist completed b [signature] 2/13/03 (Signature / Date) | Reviewed by DUF 2/13/03 (Initials / Date)

Matrix | Carrier name | Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	<6°C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted Yco Date contacted: 2/13/03 Person contacted P. Kavanagh

Contacted by: K. Kavanagh Regarding _____

Comments: ① COC does not indicate time relinquished. ② Times of sample collection not recorded on COC. ③ Wrong sample denoted as MS/MSD on COC. ④ Sample GW-06B on COC was labelled GW-06 on sample labels.

Corrective Action ① Time noted, when transfered to PD. Recorded times of collection from sampler by phone (from field log) ③ MS/MSD changed to 09. ④ log as 06B as on COC.

VES009

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-T0 TURN AROUND TIME: 21 Days

SDG #: VES009 CASE #: _____ MATRIX: Aqueous pH CHECK Y or (N)

REMARKS: PIS # 019 VES 03

RECEIVED BY: SS SIGNATURE: [signature] DATE: ~~2/12/03~~ TIME: 19:35

Samples accessioned on 2/13/03

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
GW-03	0302313-001A	2/12/03	DH	2	~~ASPBS - 8260-W 8260-W-TCL(SEL)~~ DLF 2/13/03
04B	002A				
05	003A				
06B	004A				
09 MS/MSD	005A	2/11/03		6	
11B	006A	2/12/03		2	
12	007A				
Trip Blank	008A				

See SEL for Detection Limits +MTBE

SDG 2/13/03

VOLATILE

P 0286

VES009 S8

H2M LABS, INC.

CLIENT: VES

BDG #: VES009

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
2/13/03	12:30	SIGN	SIGN	DH	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			

VOLATILE

P 0287

VES009 S9

GROUNDWATER ANALYTICAL

220 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441
FAX (508) 759-4475

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

066655

Project Name: CAMEL SHOP - RITE CENTER CARMEL, NY	Firm: VERTEX
Project Number: 4148	Address: 400 LIBBEY PARKWAY
Sampler Name: PF / EH	City / State / Zip: WEYMOUTH, MA 02189
Project Manager: G. DEHNER	Telephone: 781-952-6000

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)
- ☒ RUSH (RAN- 48 hr) (Rush requires Rush Authorization Number)

Please FAX: ☒ YES ☐ NO
FAX Number: 781-335-3543

BILLING

Purchase Order No.:
GWA Reference No.:

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix	Type	Container(s)	Preservation	Filtered	LABORATORY NUMBER (Lab Use Only)
2/13	14:23	GW-02	WATER	GRAB	2 2	HCl		0302353-001
	10:35	GW-07			2 2			002
	11:45	GW-13B			2 2			003
	9:35	GW-20			2 2			004
1	10:57	FB-2-13-01			2 2			005

REMARKS / SPECIAL INSTRUCTIONS

CALL G. DEHNER to confirm TAT

DATA QUALITY OBJECTIVES

Regulatory Program

- ☐ Safe Drinking Water Act
- ☐ MA DEP Form
- ☐ NPDES/Clean Water Act Specify State: _____
- ☐ RCRA/Haz. Waste Char.
- ☐ MA MCP (310 CMR 40) Reportable Concentrations
  - ☐ RCGW - 1 ☐ RCS - 1
  - ☐ RCGW - 2 ☐ RCS - 2
- ☐ MA Dredge Disposal
- ☐ NH ☐ RI ☐ CT ☐ ME Specify Category: _____

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. For water samples, each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required	Selection of QC Sample
☐ Sample Duplicate	☐ Selected by laboratory
☐ Matrix Spike	☐ Please use sample: _____
☐ Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		
Relinquished by Sampler:	2/13	4:45	Received by:	Receipt Temperature: 2/14/03 12:30 0.7°C
Relinquished by:			Received by:	Shipping/Airbill Number: FedEx 836411169348
Relinquished by:			Received by Laboratory:	Custody Seal/ Cooler Seal Number:

Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____

C

VES009

H2M LABS, INC.

Sample Receipt Checklist

Client Name VES | Date and Time Receive 2/14/2003 12:30:00 PM

Work Order Numbe 0302353 | Received by SD

Checklist completed b [signature] Signature 2/14/03 Date | Reviewed by DLF Initials 2/14/03 Date

Matrix | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐ <6°C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted VES Date contacted: 2/14/03 Person contacted Greg D.

Contacted by: DLF Regarding Time of collection

Comments: ① Times of sample collection not recorded on COC, and for sample GW-13B time of collection not recorded on sample label either. ② Sample FB-2-13-03 on COC, was labelled FB-2-13-3 on sample labels.

Corrective Action ① use times on bottles. Sample GW-13B was taken @ 11:45. ② use FB-2-13-03.

VES009 S11

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: VES DELIVERABLES: B5-70 TURN AROUND TIME: 21 Days

DG #: VES009 CASE #: _____ MATRIX: Aqueous pH CHECK Y or (N)

REMARKS: PIS # 019 VES 03

RECEIVED BY: SB SIGNATURE: [signature] DATE: 2/14/03 TIME: 13:30

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
GW-02	0302353-001A	2/13/03	DH	2	ASPB5-8260_W (6EL)
07	002A				
13B	003A				
20	004A				
FB-2-13-03	005A				

TCL & MTBE see SEL for Detection Limits

SB 2/14/03

VOLATILE

P 0001

VES009 S12

12M LABS, INC.

[redacted]: VES

[redacted] VES009

INTERNAL CHAIN OF CUSTODY

TE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/23	15:30	SIGN	SIGN	DH	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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[redacted]

VOLATILE

VES009 S13

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSIS
SAMPLES RECEIVED: 2/12/03 & 2/14/03
SDG #: VES009

For Samples:

FB-2-13-03	GW-09 MS/MSD
GW-02	GW-11B
GW-03	GW-12
GW-04B	GW-13B
GW-05	GW-20
GW-06B	TRIP BLANK
GW-07	

The above water samples were analyzed for a select list of volatile organic analytes by EPA method 8260B, according to the requirements of the NYSDEC ASP 10/95.

All other QC data and the calibrations met the requirements of the protocol. The following should be noted:

- Sample GW-09 was analyzed as the matrix spike/matrix spike duplicate.
- Benzene had a 27.5% D in the continuing calibration of 2/20/03. Benzene had a 26.9% D and styrene had a 26.2% D in the continuing calibration of 2/21/03 (limit 25% D).

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 3, 2003

****
* *
* *
****
Joann M. Slavin
Laboratory Manager

o:\qc\narr2003\ves\voa\ves009.rtf

3/3/03

4. SAMPLE REPORTS

4.1 VOLATILES

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\%moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-2-13-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12329.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-2-13-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12329.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-2-13-03

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12329.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12325.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	11	
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	4	J
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-02

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12325.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-02

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12325.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 3 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000109-66-0	Pentane	2.95	6	NJ
2.	tetramethyl-benzene isomer	12.06	5	J
3.	unknown aromatic	12.46	6	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12313.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	170	
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-03

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12313.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-03

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12313.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000994-05-8	Butane, 2-methoxy-2-methyl-	5.63	7	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12314.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-04B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12314.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	8	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

GW-04B

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12314.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12315.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

VES009 S31

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-05

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12315.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-05

Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12315.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12316.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-06B

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12316.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	12	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GW-06B

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12316.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12344.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/22/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-07

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12344.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/22/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	14	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

GW-07

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12344.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/22/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12310.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-09

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12310.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	42	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

GW-09

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12310.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VES009 S42

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-11B

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12317.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-11B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12317.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	11	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

GW-11B

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12317.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-12

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12318.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-12

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12318.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

GW-12

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12318.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-13B

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12327.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-13B

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12327.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

GW-13B

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12327.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

VES009 S51

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-20

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12328.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-20

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12328.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GW-20

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302353-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12328.D

Level: (low/med) LOW Date Received: 02/14/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12324.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

VES009 S55

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12324.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

TRIP BLANK

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: 0302313-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12324.D

Level: (low/med) LOW Date Received: 02/12/03

% Moisture: not dec. Date Analyzed: 02/21/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

	EPA SAMPLE NO.	SMC1 DCE#	SMC2 TOL#	SMC3 BFB #	Other	TOT OUT
01	VBLK022003	102	101	87		0
02	LFB022003	101	99	104		0
03	MSB022003	101	97	90		0
04	GW-09	106	96	87		0
05	GW-09MS	98	95	87		0
06	GW-09MSD	106	95	86		0
07	GW-03	107	95	90		0
08	GW-04B	111	100	87		0
09	GW-05	105	98	89		0
10	GW-06B	107	95	88		0
11	GW-11B	105	98	88		0
12	GW-12	110	98	89		0
13	VBLK022103	105	102	87		0
14	TRIP BLANK	96	98	89		0
15	GW-02	99	99	90		0
16	GW-13B	100	101	87		0
17	GW-20	100	99	89		0
18	FB-2-13-03	94	101	87		0
19	GW-07	107	98	89		0

			QC Limits
SMC1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC2	TOL	= Toluene-d8	(88-110)
SMC3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix Spike - EPA Sample No.: GW-09

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	40	80	61-145
Trichloroethene	50	0	43	87	71-120
Benzene	50	0	43	87	76-127
Toluene	50	0	41	83	76-125
Chlorobenzene	50	0	44	87	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	43	86	7	14	61-145
Trichloroethene	50	46	92	6	14	71-120
Benzene	50	51	101	15*	11	76-127
Toluene	50	45	90	8	13	76-125
Chlorobenzene	50	46	93	7	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK022003

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES009

Lab File ID: V\F12295.D Lab Sample ID: VBLK022003

Date Analyzed: 02/20/03 Time Analyzed: 15:33

GC Column: HP-VOCO ID: .2 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB022003	LFB022003	V\F12296.D	15:59
02	MSB022003	MSB022003	V\F12297.D	16:26
03	GW-09	0302313-005A	V\F12310.D	21:56
04	GW-09MS	0302313-005AMS	V\F12311.D	22:21
05	GW-09MSD	0302313-005AMSD	V\F12312.D	22:46
06	GW-03	0302313-001A	V\F12313.D	23:12
07	GW-04B	0302313-002A	V\F12314.D	23:37
08	GW-05	0302313-003A	V\F12315.D	0:03
09	GW-06B	0302313-004A	V\F12316.D	0:28
10	GW-11B	0302313-006A	V\F12317.D	0:54
11	GW-12	0302313-007A	V\F12318.D	1:19

COMMENTS: _____

_____

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK022003

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No.: _____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: VBLK022003

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12295.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
1634-04-4	Methyl tert-butyl ether	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK022003

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: VES SAS No.: ____ SDG No.: VES009

Matrix: (soil/water) WATER Lab Sample ID: VBLK022003

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12295.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column: HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1F

EPA SAMPLE NO.

VBLK022003

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. VES SAS No. _____ SDG No. VES009

Matrix: (soil/water) WATER Lab Sample ID: VBLK022003

Sample wt/vol: 5 (g/mL) ML Lab File ID: V\F12295.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/20/03

GC Column HP-VOCOL ID: .2 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES009

Lab File ID (Standard): V\F12294.D Date Analyzed: 02/20/03

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 14:41

Instrument ID: HP5973-1 Heated Purge: (Y/N) N

GC Column: HP-VOCO ID: .2 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	48587	4.81	285850	5.77	259579	8.54
	UPPER LIMIT	97174	5.31	571700	6.27	519158	9.04
	LOWER LIMIT	24294	4.31	142925	5.27	129790	8.04
	EPA SAMPLE						
01	VBLK022003	49539	4.82	285423	5.77	252700	8.53
02	LFB022003	44970	4.81	276611	5.77	253580	8.54
03	MSB022003	47269	4.82	306107	5.77	243211	8.54
04	GW-09	42337	4.82	279328	5.78	225436	8.54
05	GW-09MS	44786	4.83	252681	5.79	237941	8.54
06	GW-09MSD	43300	4.81	263143	5.78	235917	8.54
07	GW-03	43005	4.82	256730	5.78	230084	8.54
08	GW-04B	42797	4.82	243400	5.78	221151	8.54
09	GW-05	43138	4.82	256455	5.78	220464	8.54
10	GW-06B	41578	4.82	242719	5.78	220004	8.54
11	GW-11B	42671	4.82	247967	5.78	223730	8.54
12	GW-12	42652	4.82	246918	5.77	222539	8.54

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: VES SAS No. _____ SDG No.: VES009

Lab File ID (Standard): V\F12321.D Date Analyzed: 02/21/03

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 15:20

Instrument ID: HP5973-1 Heated Purge: (Y/N) N

GC Column: HP-VOCO ID: .2 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	46942	4.82	277803	5.77	254502	8.54
	UPPER LIMIT	93884	5.32	555606	6.27	509004	9.04
	LOWER LIMIT	23471	4.32	138902	5.27	127251	8.04
	EPA SAMPLE						
01	VBLK022103	46056	4.81	267251	5.77	227366	8.54
02	TRIP BLANK	46800	4.83	245719	5.78	228383	8.54
03	GW-02	45156	4.81	237497	5.77	228524	8.54
04	GW-13B	44953	4.82	275071	5.78	224917	8.54
05	GW-20	43737	4.83	246026	5.79	222984	8.54
06	FB-2-13-03	46934	4.81	239332	5.77	219033	8.53
07	GW-07	44056	4.82	244279	5.78	224958	8.54

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Air Analytical Reports

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ANALYTICAL LABORATORY

39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 4/19/01

VERTEX ENGINEERING
140 CLAY STREET
BROOKLYN, NY 11222
ATTN: JERRY HICKSON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: lims-54904
JOB NUMBER: 2538

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: CARMEL SHOP RITE RT 52

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
CT3451	01B09086	AIR	VIDEO STORE	to-14
CT3458	01B09088	AIR	DRY CLEANER CRC	to-14
CT3459	01B09089	AIR	DRY CLEANER BR DC	to-14
CT3460	01B09092	AIR	LIQUOR STORE	to-14
CT3464	01B09093	AIR	CHINA TOWN RESTAURANT	to-14
CT3466	01B09091	AIR	DRY CLEANER OUTSIDE	to-14
CT3988	01B09087	AIR	DRY CLEANER CR DC	to-14
CT5511	01B09094	AIR	TRIP BLANK	to-14
CT5513	01B09090	AIR	DRY CLEANER DC SA	to-14

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033
MASSACHUSETTS MA0100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
AIHA ELLAP (LEAD) 100033
NEW HAMPSHIRE 2516
VERMONT DOH (LEAD) No. LL015036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 4/19/01

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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Results for Method To-14

Lab ID Number: 01B09092
Client ID Number: Cigar Store

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	1.0	5.4
Tetrachloroethene	5.7	38.7	1.0	6.8

Surrogate Recovery (4-Bromofluorobenzene) 93 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

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Results for Method To-14

Lab ID Number: 01B09093
Client ID Number: China Town Restaurant

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	2.5	13.4
Tetrachloroethene	9.8	66.5	2.5	17.0

Surrogate Recovery (4-Bromofluorobenzene) 107 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

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Results for Method To-14

Lab ID Number: 01B09094
Client ID Number: Trip Blank

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	0.5	2.7
Tetrachloroethene	ND	ND	0.5	3.4

Surrogate Recovery (4-Bromofluorobenzene) 114 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

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Results for Method To-14

Lab ID Number: 01B09087
Client ID Number: Dry Cleaner CRDC

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	1.0	5.4
Tetrachloroethene	129	874.8	1.0	6.8

Surrogate Recovery (4-Bromofluorobenzene) 114 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

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Results for Method To-14

Lab ID Number: 01B09088
Client ID Number: Dry Cleaner CRC

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	1.0	5.4
Tetrachloroethene	99	671.3	1.0	6.8

Surrogate Recovery (4-Bromofluorobenzene) 89 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

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39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

Results for Method To-14

Lab ID Number: 01B09089
Client ID Number: Dry Cleaner BRDC

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	1.0	5.4
Tetrachloroethene	151	1024.0	1.0	6.8

Surrogate Recovery (4-Bromofluorobenzene) 94 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

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ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

Results for Method To-14

Lab ID Number: 01B09090
Client ID Number: Dry Cleaner DCSA

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	1.0	5.4
Tetrachloroethene	218	1478.3	1.0	6.8

Surrogate Recovery (4-Bromofluorobenzene) 109 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

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39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

Results for Method To-14

Lab ID Number: 01B09091
Client ID Number: Dry Cleaners Outside

LIMS Number: 54904
Date Analyzed: 4/17/01
Analyst: CJW

Analyte:	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Trichloroethene	ND	ND	1.0	5.4
Tetrachloroethene	ND	ND	1.0	6.8

Surrogate Recovery (4-Bromofluorobenzene) 97 %

MDL = Minimum Detectable Limit
ND = Not Detected

Method: TO-14 (Modified)

Sampled into a Summa Canister. Analyzed by GCMS.

LIMS-54904

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(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vertex
Attn: Jerry Hickson
Address: 148 Clay St
Brooklyn NY 11222
Site Location: Carmel Shop Rite Rt 52 Carmel
Sampled By: Jerry Hickson
Call Results: Yes ____ No ____
Fax Results: Yes ✓ No ____

Telephone: 718-729-9489
Fax Batch #: 718-729 9508
Project #: 2538
Client P.O. #: ____
Fax #: ____

Field Sample I.D.	Sample Description	Lab # 013	DATE SAMPLED Start Date/Time	DATE SAMPLED Stop Date/Time	Composite	Grab	MATRIX: WASTE WATER	GROUND WATER	DKG WATER	Soil	Air	*Other	Preservative (Use Code)	Container (Use Code)	Analysis Required: TO-14 TCE, PCE only
CT3451	Library Store	04086 CT-17	4/12 9:30am			X					X				X
CT3988	Dry Cleaner CR DC	04087 CT-31	"			X					X				X
CT3458	" " CRC	04088 CT-38	"			X					X				X
CT3459	" " BR DC	04089 CT-37	"	10:30 pm		X					X				X
CT5513	" " DC SA	04090 CT-36	"			X					X				X
CT3466	" " outside	04091 CT-14	"	10:30		X					X				X
CT3460	Liquor store	04092 CT-10				X					X				X
						X					X				X

CONTAINER CODE
P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber O = Other ____

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ____

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	4/12/01 2:45p	[signature] 4/13/01 1200
Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ____ 24-Hour ____ 48-Hour ✓ Normal
____ Other ____ Date Required

Remarks/Comments:
Results to show TCE + PCE only

*MATRIX OTHER ____

CONTEST Fax:4135256405 Apr 19 2001 17:10 P.13

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(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Lab 549041

Client Name: Vertex
Attn: Jerry Hickson
Address: 140 Clay St
Brooklyn NY 11222
Site Location: Carmel Shop Rite
Sampled By: Jerry Hickson
Call Results: Yes ___ No ___
Fax Results: Yes ✓ No ___

Telephone: 718-729 9487
Fax Batch #: 718-729-9508
Project #: 2538
Client P.O. #: ___
Fax #: ___

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED Start Date/Time	DATE SAMPLED Stop Date/Time	Composite	Grab	MATRIX: WASTE WATER	GROUND WATER	DKG WATER	Soil	Air	*Other	Preservative (Use Code)	Container (Use Code)	Analysis Required: TO-15 TCE+PCE only									
CT3464	China town Restaurant	G9093 CT40 FAST	4/12 10:30 AM	11:45		X					X				X									
CT5511	Trip Blank	G9094 CT06				X					X				X									

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber O = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	4/12 3:45	M. Black 4/13/01 1200
Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ___ 24-Hour ___ 48-Hour X Normal
___ Other ___ Date Required

Remarks/Comments:
Results to show TCE + PCE only

*MATRIX OTHER ___

CONTEST Fax:4135256405 Apr 19 2001 17:09 P.12

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ANALYTICAL LABORATORY
39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE 3/22/02

VERTEX ENGINEERING
140 CLAY STREET
BROOKLYN, NY 11222
ATTN: JERRY HICKSON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-62255
JOB NUMBER: 2538

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: CARMEL SHOP RITE DRYCLEANER

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
AS-1	02B06325	AIR	DRY CLEANER FRONT	to-14
AS-2	02B06326	AIR	DRY CLEANER STORAGE AREA	to-14
AS-3	02B06327	AIR	BEHIND DRY CLEANERS	to-14
AS-4	02B06328	AIR	BLANK	to-14

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AIHA 100033
MASSACHUSETTS MA0100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
AIHA ELLAP (LEAD) 100033
NEW HAMPSHIRE 2516
VERMONT DOH (LEAD) No. LL015036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 3/25/02

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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ANALYTICAL LABORATORY

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Results for Method To-14

Lab ID Number: 02B06325
Client ID Number:AS-1

LIMS Number: 62255
Date Analyzed: 3/21/02
Analyst: HHM

Analyte:	Sample Results PPBv		MDL PPBv
Trichloroethene	ND		1.0
Tetrachloroethene	109		1.0
Surrogate Recovery: (4-Bromofluorobenzene)	104	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14 (Modified)
Sampled into a Summa Canister. Analyzed by GCMS.

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Results for Method To-14

Lab ID Number: 02B06326
Client ID Number:AS-2

LIMS Number: 62255
Date Analyzed: 3/21/02
Analyst: HHM

Analyte:	Sample Results PPBv		MDL PPBv
Trichloroethene	ND		2.5
Tetrachloroethene	152		2.5
Surrogate Recovery: (4-Bromofluorobenzene)	96	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14 (Modified)
Sampled into a Summa Canister. Analyzed by GCMS.

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Results for Method To-14

Lab ID Number: 02B06327
Client ID Number: AS-3

LIMS Number: 62255
Date Analyzed: 3/21/02
Analyst: HHM

Analyte:	Sample Results PPBv		MDL PPBv
Trichloroethene	ND		0.5
Tetrachloroethene	ND		0.5
Surrogate Recovery: (4-Bromofluorobenzene)	104	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14 (Modified)
Sampled into a Summa Canister. Analyzed by GCMS.

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Results for Method To-14

Lab ID Number: 02B06328
Client ID Number:AS-4

LIMS Number: 62255
Date Analyzed: 3/21/02
Analyst: HHM

Analyte:	Sample Results PPBv		MDL PPBv
Trichloroethene	ND		0.5
Tetrachloroethene	ND		0.5
Surrogate Recovery: (4-Bromofluorobenzene)	105	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14 (Modified)
Sampled into a Summa Canister. Analyzed by GCMS.

Rain - Drizzle 41°

Wind South west → North East < 5MPH

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(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vertex
Attn: Jerry Hickson
Address: 140 Clay St
Brooklyn, NY, 11222
Site Location: Carmel Shop Rite Dry Cleaners
Sampled By: Jerry Hickson
Call Results: Yes ✓ No ___
Fax ✓ OR Email Results
Fax#: 718-729-9508

Telephone: 718-729-9489
Batch #: 718-729-9508
Project #: 2538
Client P.O. #: ___
Email Format: ___.pdf format ___.xls format
Email Address: GHickson@vertexEng.com

LIMS # 62255

Total # of Containers submitted with this chain: ___

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED Start Date/Time	DATE SAMPLED Stop Date/Time	Composite	Grab	MATRIX: WASTE WATER	GROUND WATER	DKG WATER	Soil	Air	*Other	Preservative (Use Code)	Container (Use Code)	Analysis Required: TO-14 TCE+ PCE only	CT 4907 CT# 65	CT 3474 CT #61	CT 2165 CT#66	CT 2130 CT# N/A
AS-1	Dry cleaner Front	02B06325	11/16 10:20 AM	2:00 PM		X					X			O		X			
AS-2	Dry cleaner storage	06326	11:17 AM	2:00 PM		X					X			O				X	
AS-3	Back Dry clean	06327	11:15 AM	2:00 PM		X					X			O			X		
AS-4	Blank	06328	2/3								X			O					X

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ✓

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	4:30 PM	[signature] 3/14/02 93
Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received by: (Signature)

If this section is not filled out, Con-Test will analyze at normal turnaround.
Turnaround Requested: ___ 24-Hour ___ 48-Hour ✓ Normal
___ Other ___ Date Required

Remarks/Comments: Results to show TCE+PCE only

*MATRIX OTHER ___

Detection Limit Requests:
Regulations? NYSDEC
SIMS: ✓ Yes ___ No

con-test
ANALYTICAL LABORATORY
39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE 5/10/02

VERTEX ENGINEERING
140 CLAY STREET
BROOKLYN, NY 11222
ATTN: JERRY HICKSON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-63377
JOB NUMBER: 2538

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: CARMEL SHOPRITE DRY CLEANER

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
SVEIN	02B10993	AIR	INFLUENT TO CARBON FILTER	to-14

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AIHA 100033	AIHA ELLAP (LEAD) 100033
MASSACHUSETTS MA0100	NEW HAMPSHIRE 2516
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036
NEW YORK ELAP 10899	RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 5/10/02

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

Results for Method To-14

Lab ID Number: 02B10993
Client ID Number: SVEIN

LIMS Number: 63377
Date Analyzed: 5/9/02
Analyst: PRM

Analyte:	Sample Results PPBv		MDL PPBv
Trichloroethene	8.1		0.5
Tetrachloroethene	7.3		0.5
Surrogate Recovery: (4-Bromofluorobenzene)	93	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14 (Modified)
Sampled into a Summa Canister. Analyzed by GCMS.

66° clear

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(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vertex
Attn: Jerry Hickson
Address: 140 Clay St
Brooklyn, N.Y. 11222
Site Location: Carmel Shoprite Dry Cleaner
Sampled: By: Jerry Hickson
Call Results: Yes ✓ No ___
Fax OR Email Results: Fax#: 718-729-9508

Telephone: 718-729-9489
Fax Batch #: 718-729-9508
Project #: 2538
Client P.O. #: ___
Email Format: ___.pdf format ___.xls format
Email Address: GHickson@VertexEng.com

LIMS # 63377

Analysis Required

TO-14 PCE + TCE only
Contact #10 and CT3411

Total # of Containers submitted with this chain: ___

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED Start Date/Time	DATE SAMPLED Stop Date/Time	Composite	Grab	MATRIX: WASTE WATER	GROUND WATER	DKG WATER	Soil	Air	*Other	Preservative (Use Code)	Container (Use Code)
SVEIN	Influent to Carbon Filter	02B10993	10:20 AM	1:00 PM		X					X			0

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber O = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	5/18/02 5:20	[signature] 5/19/02 9:30
Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received by: (Signature)

If this section is not filled out, Con-Test will analyze at normal turnaround.
Turnaround Requested: ___ 24-Hour ___ 48-Hour ___ Normal
___ Other ___ Date Required

Remarks/Comments:

*MATRIX OTHER ___

Detection Limit Requests:
Regulations?
SIMS: ___ Yes ___ No

CONTEST FAX:4135250405 MAY 10 2002 17:02 P.02

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ANALYTICAL LABORATORY
39 Spruce Street * 2nd Floor * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/526-2332

REPORT DATE 3/10/03

VERTEX ENGINEERING - WEYMOUTH
400 LIBBEY PARKWAY
WEYMOUTH. MA 02189
ATTN: GREGG DEHNER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 4650

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-69774
JOB NUMBER: 4650

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: CARMEL, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
CHINATOWN	03B04933	AIR	CT3985	air special test
GRAPEVINE	03B04935	AIR	CT4398	air special test
NAIL SALON	03B04936	AIR	CT3976	air special test
OUTDOOR	03B04934	AIR	CT3990	air special test

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MASSACHUSETTS MA0100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
AIHA ELLAP (LEAD) 100033
NEW HAMPSHIRE 2515
VERMONT DOH (LEAD) No. LL015036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Sondra S. Kocot 03/11/03
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

con-test®
ANALYTICAL LABORATORY
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GREGG DEHNER
VERTEX ENGINEERING - WEYMOUTH
400 LIBBEY PARKWAY
WEYMOUTH, MA 02189

3/10/03

Purchase Order No.: 4650

Project Location: CARMEL, NY
Date Received: 3/6/03
LIMS-BAT #: LIMS-69774
Job Number: 4650

Field Sample # : CHINATOWN

Sample ID : 03B04933
Sampled : 3/5/03
CT3988
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			03/07/03	PRM				
PCE by TO-14								

Field Sample # : GRAPEVINE

Sample ID : 03B04935
Sampled : 3/5/03
CT4398
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			03/07/03	PRM				
PCE by TO-14								

Field Sample # : NAIL SALON

Sample ID : 03B04936
Sampled : 3/5/03
CT3976
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			03/07/03	PRM				
PCE by TO-14								

Field Sample # : OUTDOOR

Sample ID : 03B04934
Sampled : 3/5/03
CT3396
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			03/07/03	PRM				
PCE by TO-14								

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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GREGG DEHNER
VERTEX ENGINEERING - WEYMOUTH
400 LIBBEY PARKWAY
WEYMOUTH, MA 02189

Project Location: CARMEL, NY
Date Received: 3/6/03

Purchase Order No.: 4650

3/10/03

LIMS-BAT #: LIMS-69774
Job Number: 4650

** END OF REPORT **

RL = Reporting Limit
ND = Not Detected
NM = Not Measured
See end of report for comments and notes applying to this sample

SPEC LIMIT = e client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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39 Spruce Street, 2nd Floor
East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

RESULTS FOR METHOD TO-14A

Lab ID Number: 03B04933
Client ID Number: CHINATOWN

LIMS Number: 69774
Date Analyzed: 3/7/03
Analyst: PRM

Analyte:	Sample Results PPBv		MDL PPBv
Tetrachloroethene	ND		0.5
Surrogate Recovery: (4-Bromofluorobenzene)	112	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14A (Modified)
TO04933
Sampled into a Tedlar Bag. Analyzed by GCMS.

con-test® ANALYTICAL LABORATORY
39 Spruce Street, 2nd Floor
East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

RESULTS FOR METHOD TO-14A

Lab ID Number: 03B04934
Client ID Number: OUTDOOR

LIMS Number: 69774
Date Analyzed: 3/7/03
Analyst: PRM

Analyte:	Sample Results PPBv		MDL PPBv
Tetrachloroethene	7.8		0.5
Surrogate Recovery: (4-Bromofluorobenzene)	93	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14A (Modified)
TO04934
Sampled into a Tedlar Bag. Analyzed by GCMS.

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East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

RESULTS FOR METHOD TO-14A

Lab ID Number: 03B04935
Client ID Number:GRAPEVINE

LIMS Number: 69774
Date Analyzed: 3/7/03
Analyst: PRM

Analyte:	Sample Results PPBv		MDL PPBv
Tetrachloroethene	1.6		0.5
Surrogate Recovery: (4-Bromofluorobenzene)	89	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14A (Modified)
TO04936
Sampled into a Tedlar Bag. Analyzed by GCMS.

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413.525.6405 (fax)

RESULTS FOR METHOD TO-14A

Lab ID Number: 03B04936
Client ID Number: NAIL SALON

LIMS Number: 69774
Date Analyzed: 3/7/03
Analyst: PRM

Analyte:	Sample Results PPBv		MDL PPBv
Tetrachloroethene	4.5		0.5
Surrogate Recovery: (4-Bromofluorobenzene)	104	%	

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14A (Modified)
TO14B36
Sampled into a Tedlar Bag. Analyzed by GCMS.

LIMS# 64714

CHAIN OF CUSTODY RECORD

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page ___ of ___

Company Name: Vertex Engineering
Address: 400 Libbey Parkway
Weymouth, MA 02189
Attention: Gregg Dehner
Project Location: Carmel, NY
Sampled By: Eric Hoban

Telephone: (781) 952-6000
Project # 4650
Client PO # 4650

DATA DELIVERY (check one):
☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax #: 781-335 3543
Email: ___
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY

Proposal Provided? (For Billing purposes)
☒ yes Verbal proposal date

State Form Required?
☐ yes ☐ no

Field ID	Sample Description	Lab # 03B	Date Sampled: Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	# of containers	**Preservation	-Cont. Code
	CT3588-Chinatown	04933	3/5/03 12:30	3/5/03 8:30	X		SA	1		
	CT3396-Outdoor Sive	04934	3/5/03 1230	3/5/03 8:30	X		SA	1		
	CT4398-Grapevine Cinema	04935	3/5/03 12:20	3/5/03 8:20	X		SA	1		
	CT3976 Nail Salon	04936	3/5/03 12:30	3/5/03 6:30	X		SA	1		

ANALYSIS REQUESTED

Comments:

Relinquished by: (signature)	Date/Time: 3-6-03 1230
Received by: (signature)	Date/Time: 3-6-03 1230
Relinquished by: (signature)	Date/Time: 3-6-03 1850
Received by: (signature)	Date/Time: 3/6/03 1850

Turnaround
☐ 24 Hour*
☐ 48 Hour*
☐ 72 Hour*
☒ Std.
☐ Other**
___ Date needed**
*Require lab approval.

Detection Limit Requirements
Regulations? ___
Data Enhancement Project? ☐ Y ☐ N
(MA MCP sites only)
Special Requirements or DL's: ___

***Matrix Code:**
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other ___

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other ___
X = Na hydroxide
T = Na thiosulfate

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Mar 12 2003 12:47 P.09
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