STL Edison
777 New Durham Road
Edison, NJ 08817

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www.stl-inc.com

09/16/2005

ENSR Consulting & Engineering - NJ
20 New England Ave
Piscataway, NJ 08854

Attention: Mr. Greg Micalizio

Laboratory Results
Job No. E123 - Phillipsburg

Dear Mr. Micalizio:

Enclosed are the results you requested for the following sample(s) received at our laboratory on August 18, 2005.

Lab No.	Client ID	Analysis Required
662402	F081805	PP VOA+10
662403	MW37B	PP VOA+10
662404	MW4A	PP VOA+10
662405	MW4B	PP VOA+10
662406	T081805	PP VOA+10

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, David Lissy, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban
Laboratory Manager

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Analytical Results Summary

Client ID: **F081805**
Site: Phillipsburg

Lab Sample No: **662402**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52047.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.3
Chloroethane	ND	0.2
Methylene Chloride	1.0	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	0.6	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **F081805**
Site: Phillipsburg

Lab Sample No: **662402**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52047.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW37B**
Site: Phillipsburg

Lab Sample No: **662403**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52048.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.3
Chloroethane	ND	0.2
Methylene Chloride	1.2	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	2.1	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	15	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	11	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **MW37B**
Site: Phillipsburg

Lab Sample No: **662403**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52048.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. C6H12 Cycloalkane	7.20	7.9	
2.			
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TOTAL ESTIMATED CONCENTRATION	7.9

Client ID: **MW4A**
Site: Phillipsburg

Lab Sample No: **662404**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52049.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	37	0.3
Chloroethane	ND	0.2
Methylene Chloride	ND	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	0.6	0.4
1,1-Dichloroethane	1.2	0.3
trans-1,2-Dichloroethene	0.8	0.4
cis-1,2-Dichloroethene	64	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	0.5	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	17	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	14	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	2.8	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **MW4A**
Site: Phillipsburg

Lab Sample No: **662404**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52049.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW4B**
Site: Phillipsburg

Lab Sample No: **662405**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52050.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	48	0.3
Chloroethane	ND	0.2
Methylene Chloride	ND	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	0.6	0.4
1,1-Dichloroethane	1.3	0.3
trans-1,2-Dichloroethene	0.8	0.4
cis-1,2-Dichloroethene	76	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	0.6	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	19	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	12	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	1.3	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **MW4B**
Site: Phillipsburg

Lab Sample No: **662405**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52050.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
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TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **T081805**
Site: Phillipsburg

Lab Sample No: **662406**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52051.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.3
Chloroethane	ND	0.2
Methylene Chloride	1.3	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **T081805**
Site: Phillipsburg

Lab Sample No: **662406**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52051.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
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TOTAL ESTIMATED CONCENTRATION 0.0

General Information

Chain of Custody

E123

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): GREGG MICALIZIO	Samplers Name (Printed): JEFF Holzer	Site/Project Identification: IR - Phillipsburg
Company: ENSR	P.O. #: 922486 STL QUOTE #	State (Location of site): NJ: ☒ NY: ☐ Other:
		Regulatory Program: ISRA
Address: 20 NEW ENGLAND AVE.	Analysis Turnaround Time: Standard ☒	
City: PISCATAWAY State: NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 732-981-0200 Fax: 732-981-0116		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No: 922486
Job No: E123

Sample Identification	Date	Time	Matrix	No. of. Cont.	VOC+10											Sample Numbers
F081805	8-18-05	8:55	AQ	2	X											662402
MW37B	8-18-05	8:58	GW	3	X											662403
MW4A	8-18-05	13:16	GW	3	X											662404
MW4B	8-18-05	15:40	GW	3	X											662405
T081805	8-18-05	—	AQ	2	X											662406
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:												
6 = Other _____, 7 = Other _____				Water:	1,2											

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Jeff Holzer	ENSR	8/18/05 18:45	1)	SR
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: E123 **Site:** Phillipsburg

Client: ENSR Consulting & Engineering - NJ

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
662402	8/18/2005	8/18/2005			8/23/2005	Tolentino, Joy	9305
662403	8/18/2005	8/18/2005			8/23/2005	Tolentino, Joy	9305
662404	8/18/2005	8/18/2005			8/23/2005	Tolentino, Joy	9305
662405	8/18/2005	8/18/2005			8/23/2005	Tolentino, Joy	9305
662406	8/18/2005	8/18/2005			8/23/2005	Tolentino, Joy	9305

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in “Methods for Chemical Analysis of Water and Wastewater” (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition); samples are digested according to Method 3050B “Acid Digestion of Soil, Sediments and Sludges.”

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method Furnace	Solid Test Method Furnace
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

Non-Conformance Summary

Nonconformance Summary

STL Edison Job Number: E123

Client: ENSR Consulting & Engineering - NJ

Date: 9/2/2005

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael J. Urban

Michael J.Urban
Laboratory Manager

GC/MS Forms and Data (Volatiles)

Results Summary and Chromatograms

Client ID: **F081805**
Site: Phillipsburg

Lab Sample No: **662402**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52047.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.3
Chloroethane	ND	0.2
Methylene Chloride	1.0	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	0.6	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **F081805**
Site: Phillipsburg

Lab Sample No: **662402**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52047.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
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.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52047.d
Report Date: 24-Aug-2005 08:56

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52047.d
Lab Smp Id: 662402 Client Smp ID: F081805
Inj Date : 23-AUG-2005 18:19
Operator : VOAMS 1 Inst ID: VOAMS1.i
Smp Info : 662402
Misc Info : E123;9305;;JT
Comment :
Method : /chem/VOAMS1.i/624/08-16-05/23aug05.b/624_05.m
Meth Date : 24-Aug-2005 08:42 moroneyc Quant Type: ISTD
Cal Date : 17-AUG-2005 03:17 Cal File: a51930.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

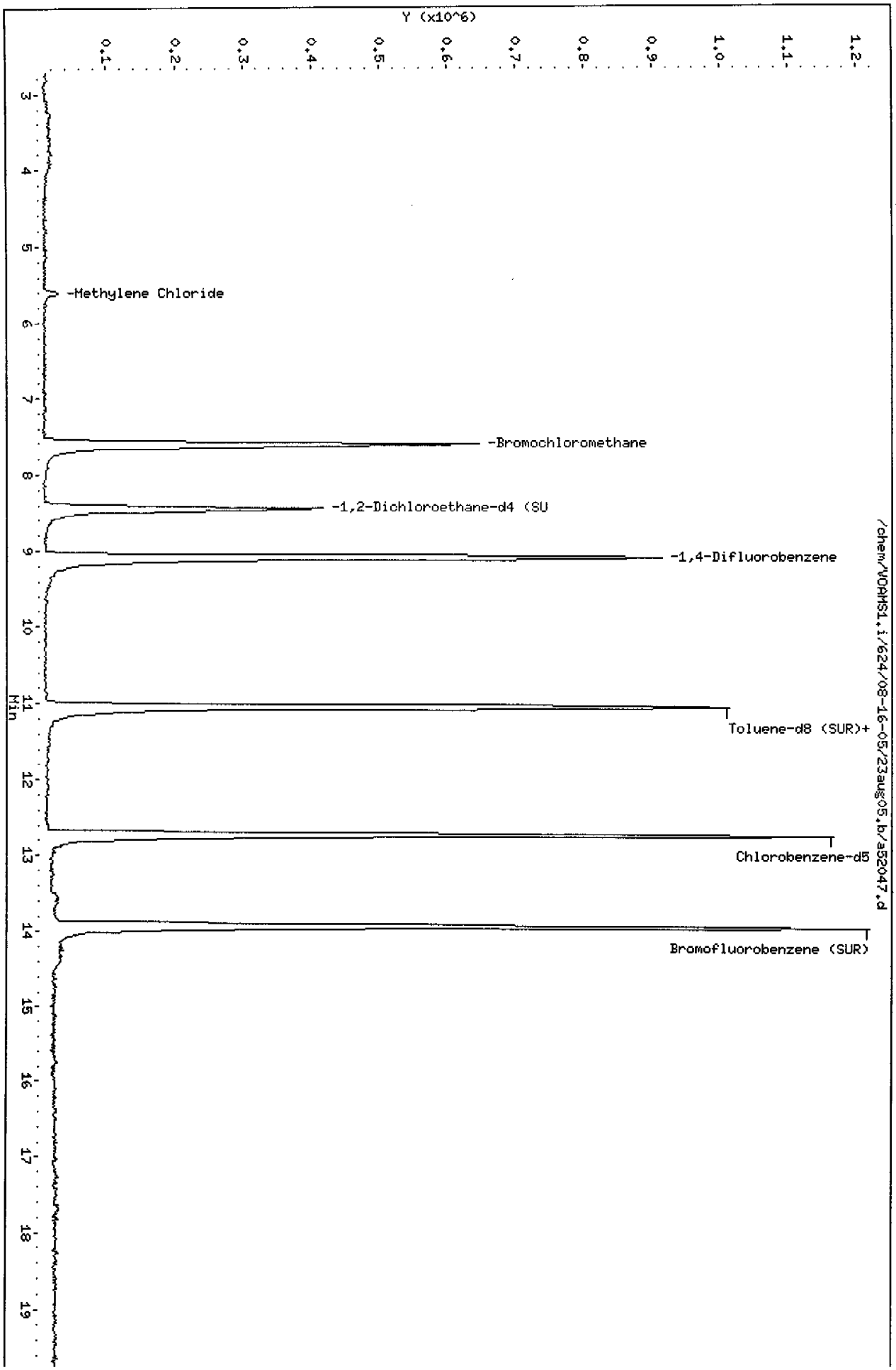
Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
6 Methylene Chloride	84	5.594	5.579	(0.736)	19669	1.00683	1.0
* 2 Bromochloromethane	128	7.601	7.585	(1.000)	403911	30.0000	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	8.448	8.418	(0.931)	98319	31.8858	32
* 19 1,4-Difluorobenzene	114	9.072	9.057	(1.000)	1763815	30.0000	
$ 37 Toluene-d8 (SUR)	98	11.034	11.018	(0.868)	1462003	29.8852	30
38 Toluene	91	11.138	11.108	(0.876)	32082	0.64938	0.65
* 32 Chlorobenzene-d5	117	12.713	12.713	(1.000)	1292581	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.917	13.946	(1.095)	650480	28.6525	29

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52047.d
Date : 23-AUG-2005 18:19
Client ID: F081805
Sample Info: 662402
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS1.i
Operator: VOAMS 1
Column diameter: 0.53



Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52047.d

Date : 23-AUG-2005 18:19

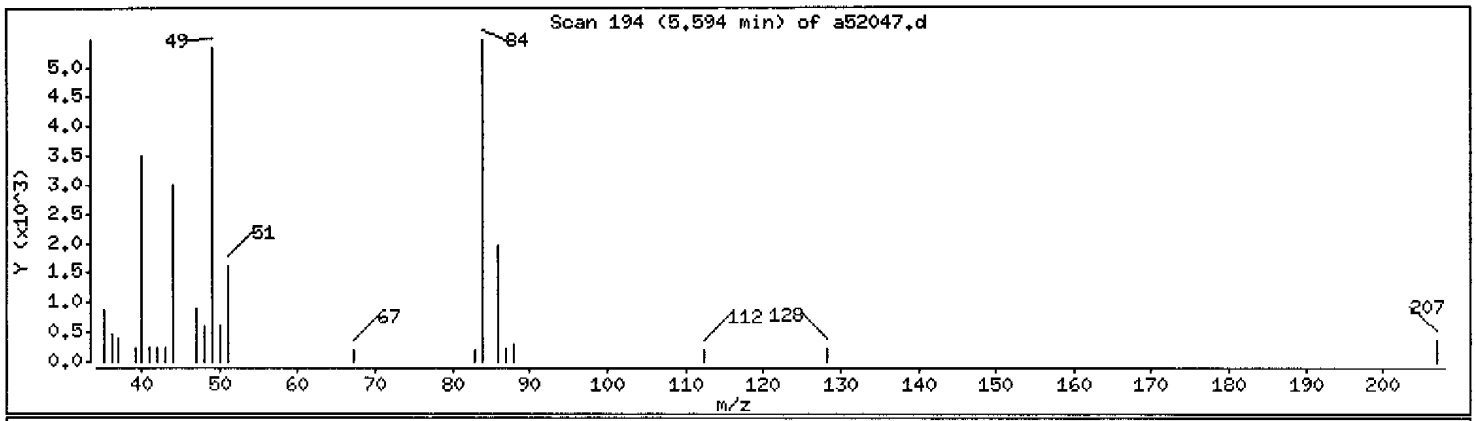
Client ID: F081805 | Instrument: VOAMS1.i

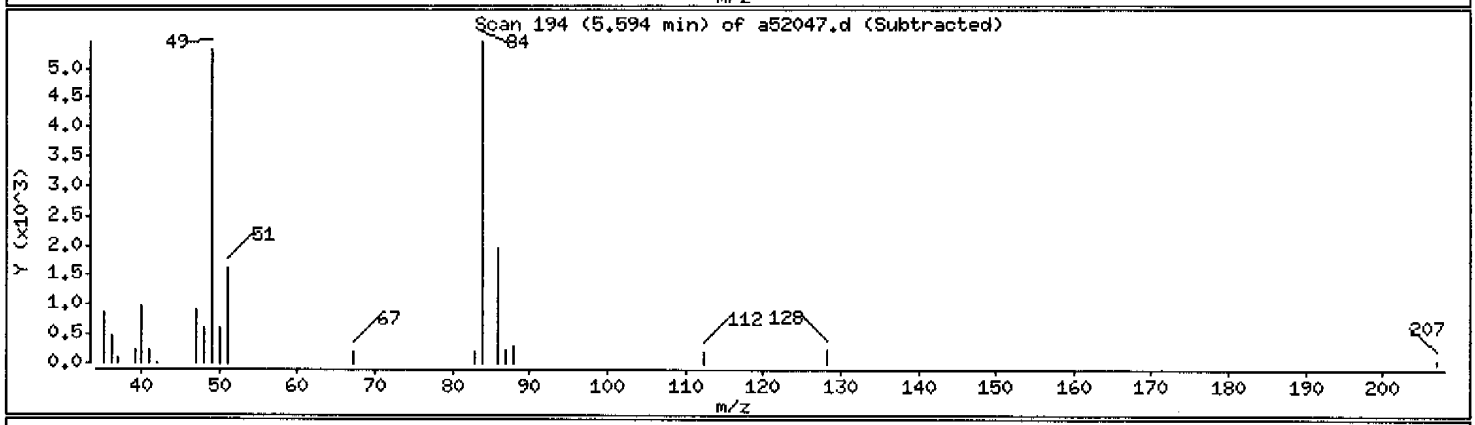
Sample Info: 662402

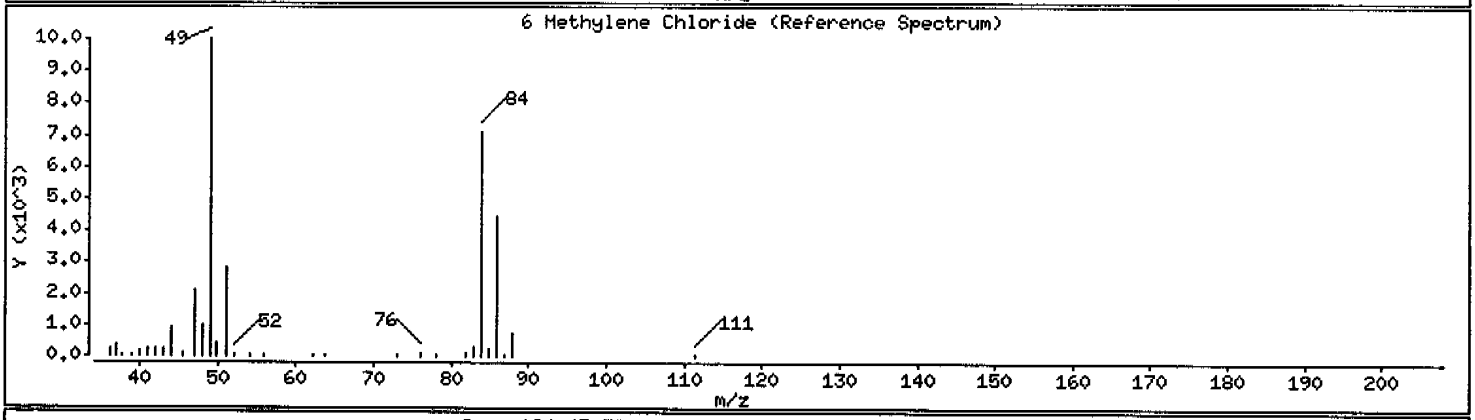
Purge Volume: 5.0 | Operator: VOAMS 1

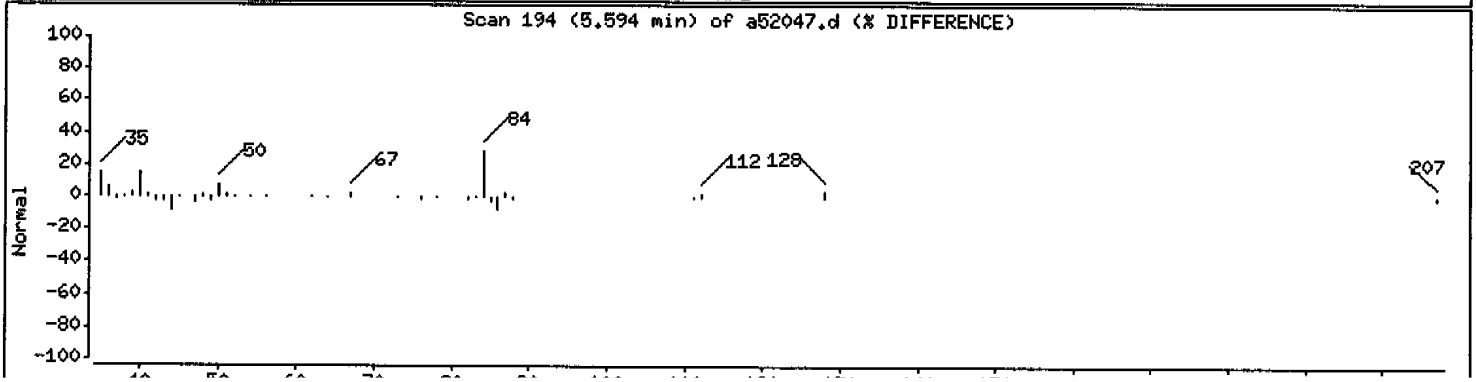
Column phase: DB624 | Column diameter: 0.53

6 Methylene Chloride | Concentration: 1.0 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52047.d

Date : 23-AUG-2005 18:19

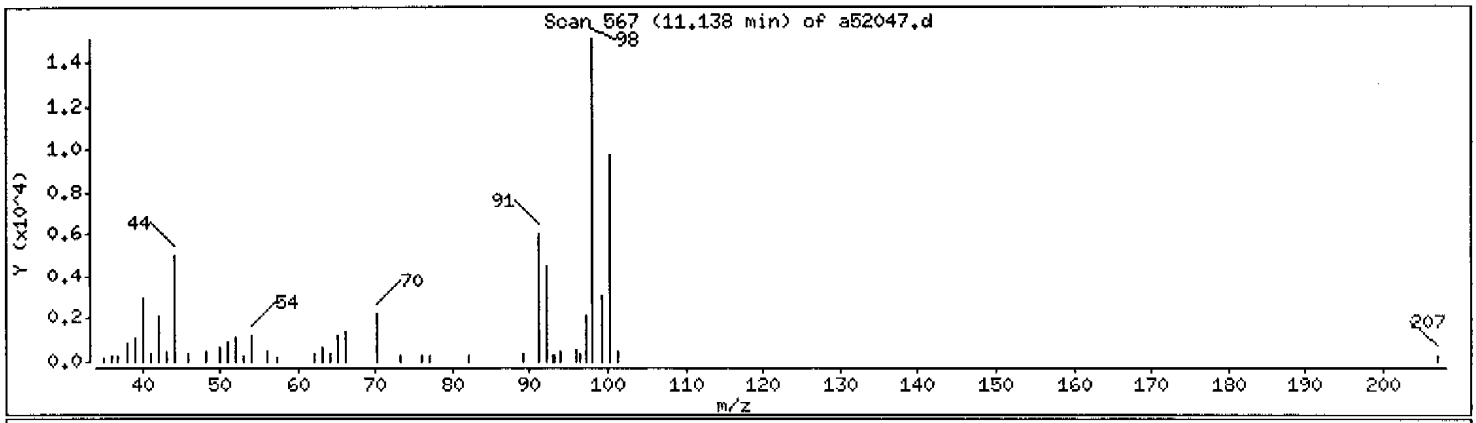
Client ID: F081805 | Instrument: VOAMS1.i

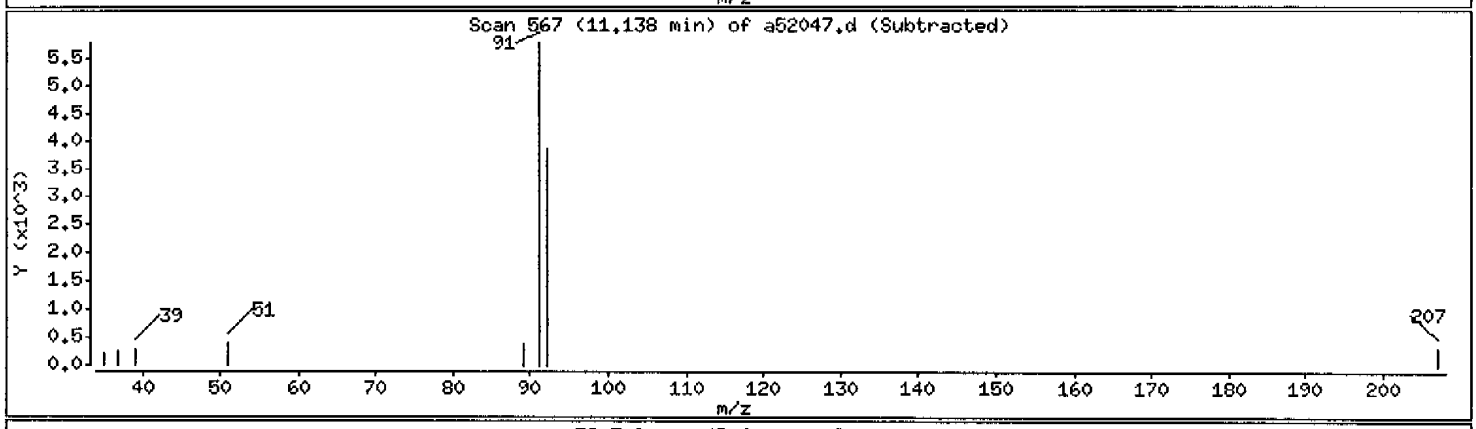
Sample Info: 662402

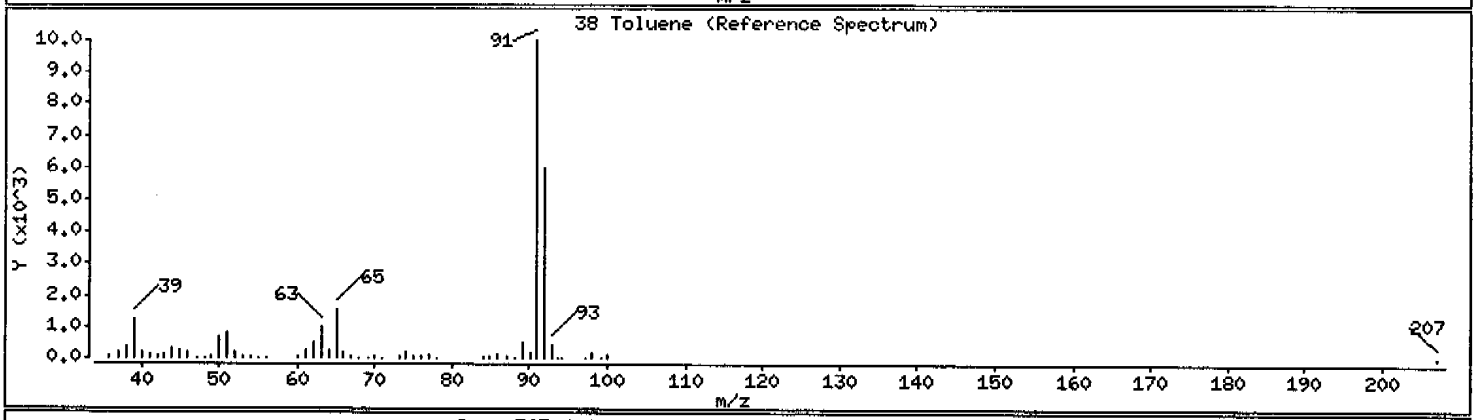
Purge Volume: 5.0 | Operator: VOAMS 1

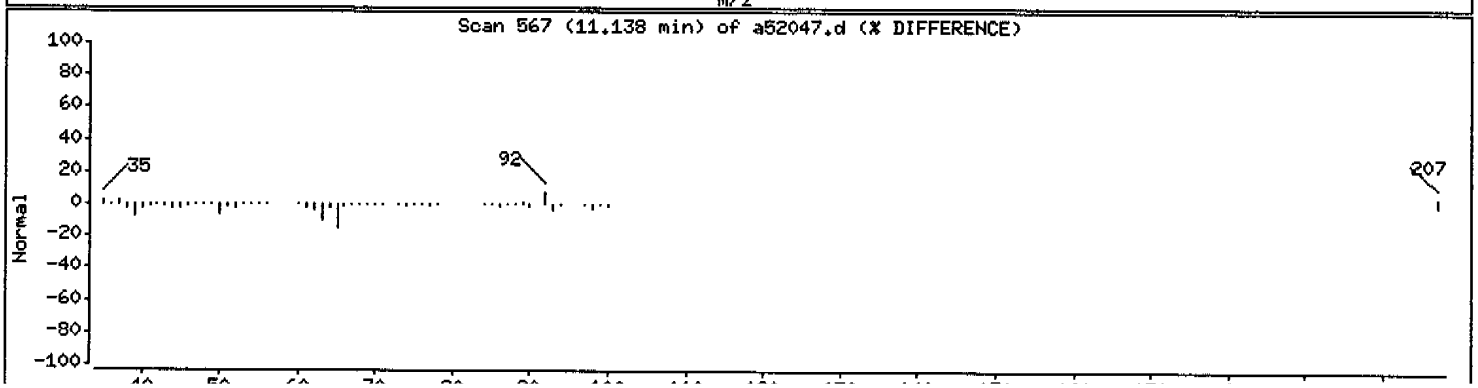
Column phase: DB624 | Column diameter: 0.53

38 Toluene | Concentration: 0.65 ug/L









Client ID: **MW37B**
Site: Phillipsburg

Lab Sample No: **662403**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52048.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.3
Chloroethane	ND	0.2
Methylene Chloride	1.2	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	2.1	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	15	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	11	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **MW37B**
Site: Phillipsburg

Lab Sample No: **662403**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52048.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. C6H12 Cycloalkane	7.20	7.9	
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.			

TOTAL ESTIMATED CONCENTRATION 7.9

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d
Report Date: 24-Aug-2005 08:56

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d
Lab Smp Id: 662403 Client Smp ID: MW37B
Inj Date : 23-AUG-2005 18:48
Operator : VOAMS 1 Inst ID: VOAMS1.i
Smp Info : 662403
Misc Info : E123;9305;;JT
Comment :
Method : /chem/VOAMS1.i/624/08-16-05/23aug05.b/624_05.m
Meth Date : 24-Aug-2005 08:42 moroneyc Quant Type: ISTD
Cal Date : 17-AUG-2005 03:17 Cal File: a51930.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

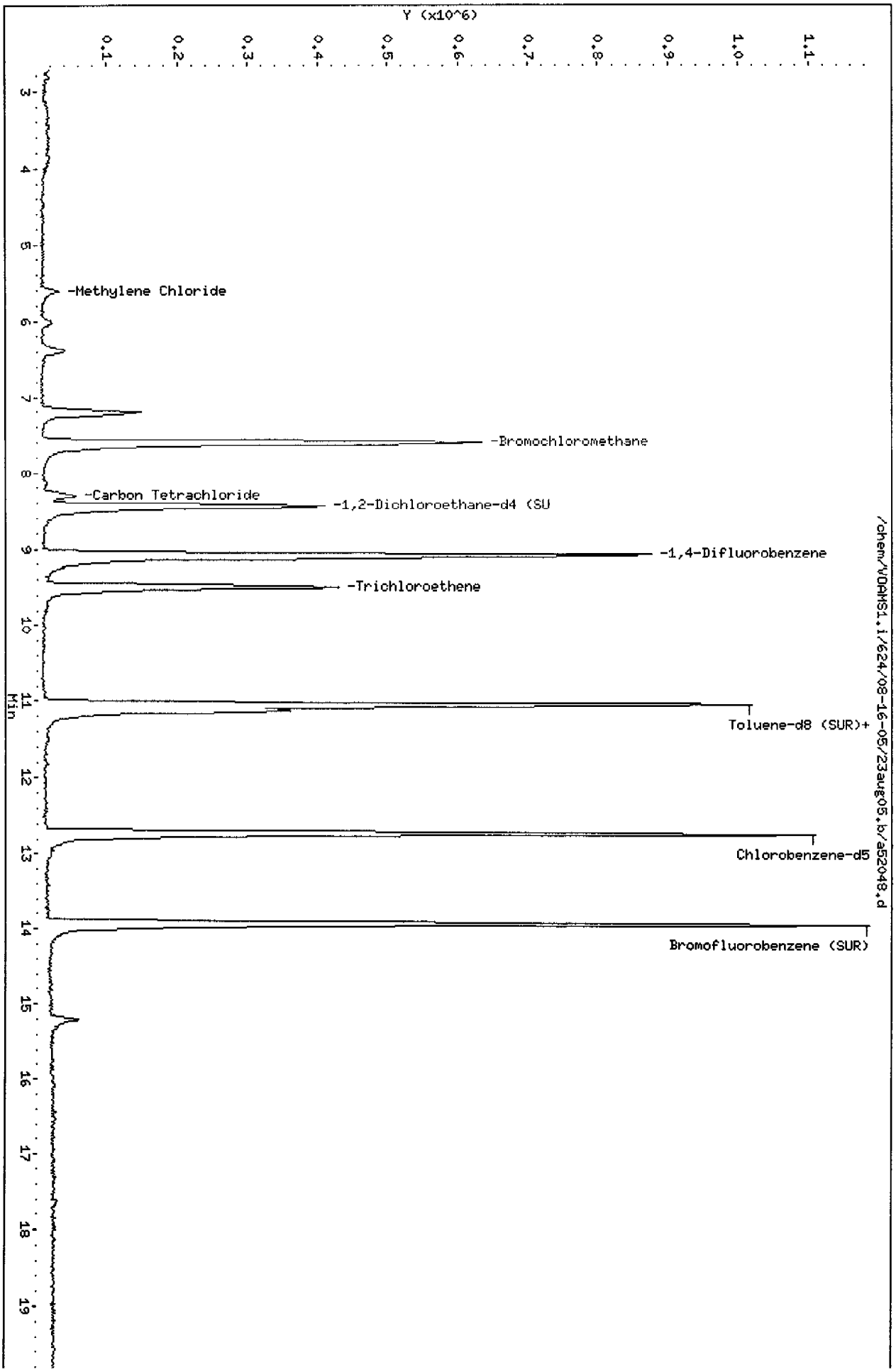
Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
6 Methylene Chloride	84	5.609	5.579	(0.738)	22490	1.16740	1.2
* 2 Bromochloromethane	128	7.601	7.585	(1.000)	398318	30.0000	
21 Carbon Tetrachloride	117	8.299	8.284	(1.092)	66161	2.06358	2.1
$ 16 1,2-Dichloroethane-d4 (SUR)	104	8.433	8.418	(0.928)	93034	31.0993	31
* 19 1,4-Difluorobenzene	114	9.087	9.057	(1.000)	1711214	30.0000	
25 Trichloroethene	95	9.488	9.473	(1.044)	335837	14.8038	15
$ 37 Toluene-d8 (SUR)	98	11.034	11.018	(0.868)	1412372	30.3557	30
38 Toluene	91	11.123	11.108	(0.875)	539944	11.4912	11
* 32 Chlorobenzene-d5	117	12.713	12.713	(1.000)	1229350	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.917	13.946	(1.095)	633152	29.3237	29

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d
Date : 23-AUG-2005 18:48
Client ID: MW37B
Sample Info: 662403
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS1.i
Operator: VOAMS 1
Column diameter: 0.53



Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d

Date : 23-AUG-2005 18:48

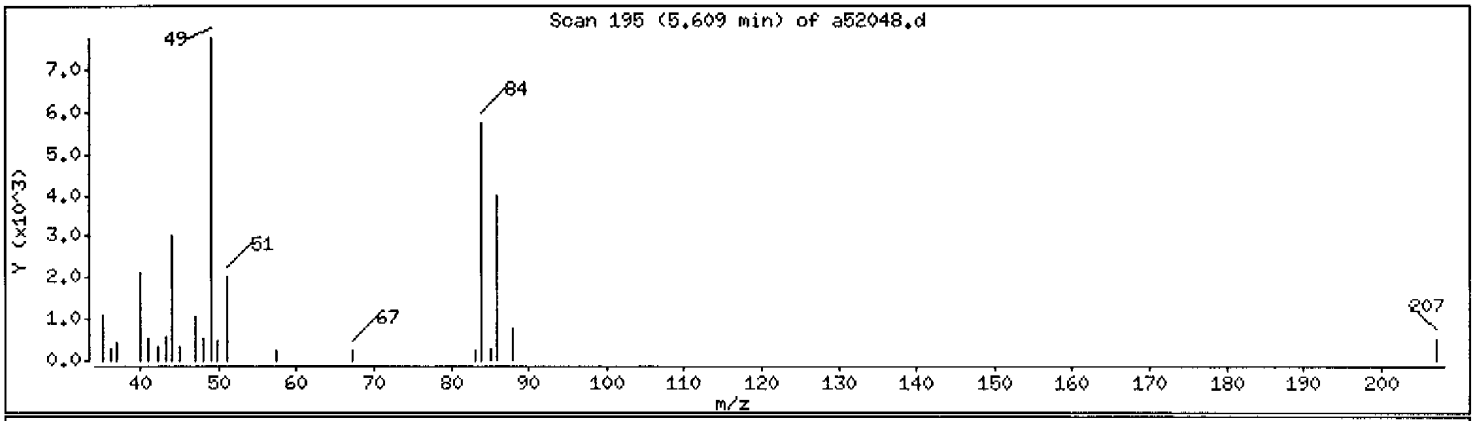
Client ID: MW37B | Instrument: VOAMS1.i

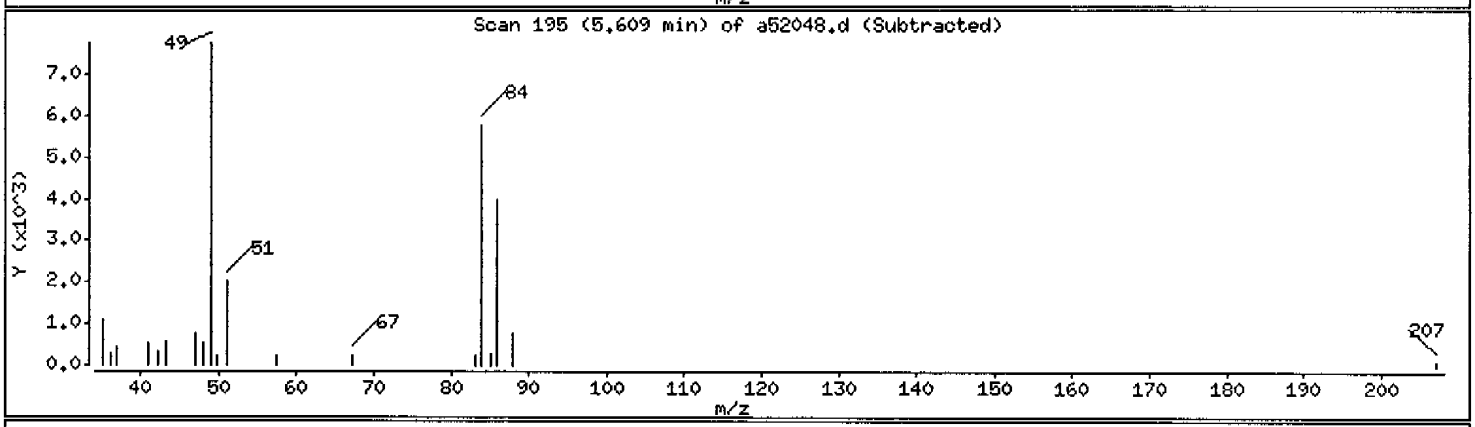
Sample Info: 662403

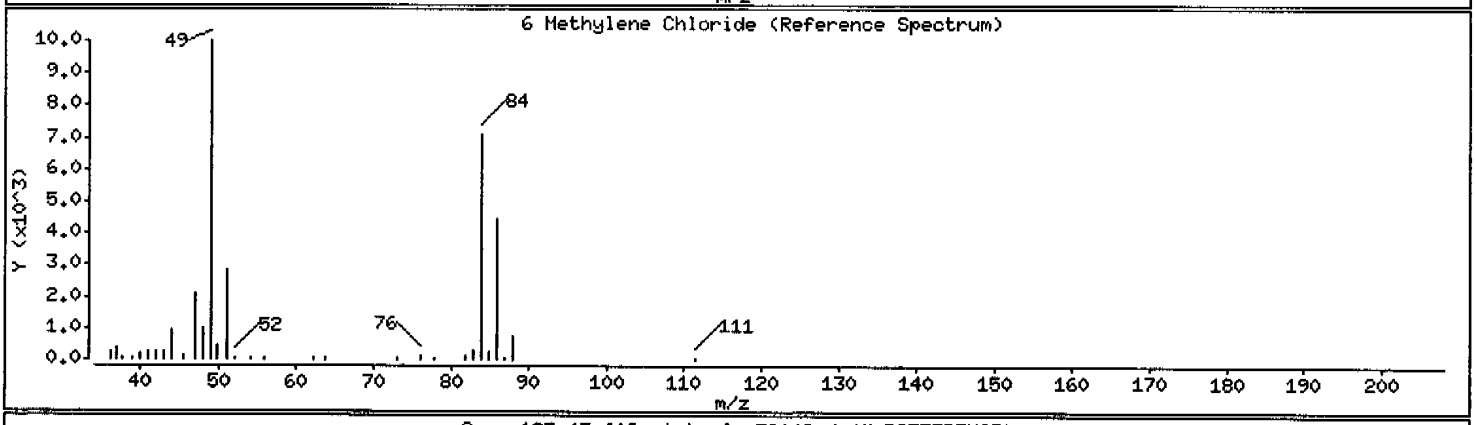
Purge Volume: 5.0 | Operator: VOAMS 1

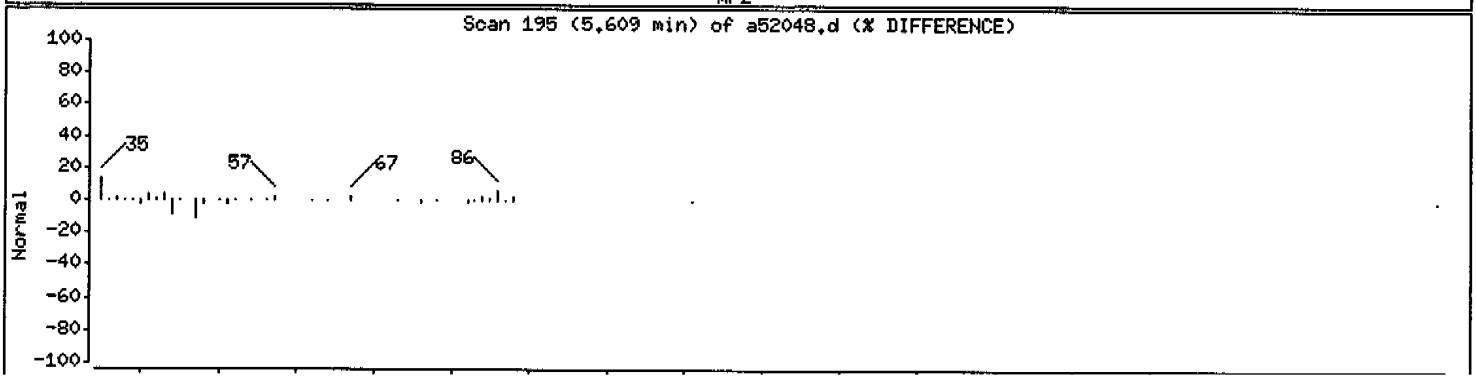
Column phase: DB624 | Column diameter: 0.53

6 Methylene Chloride | Concentration: 1.2 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d

Date : 23-AUG-2005 18:48

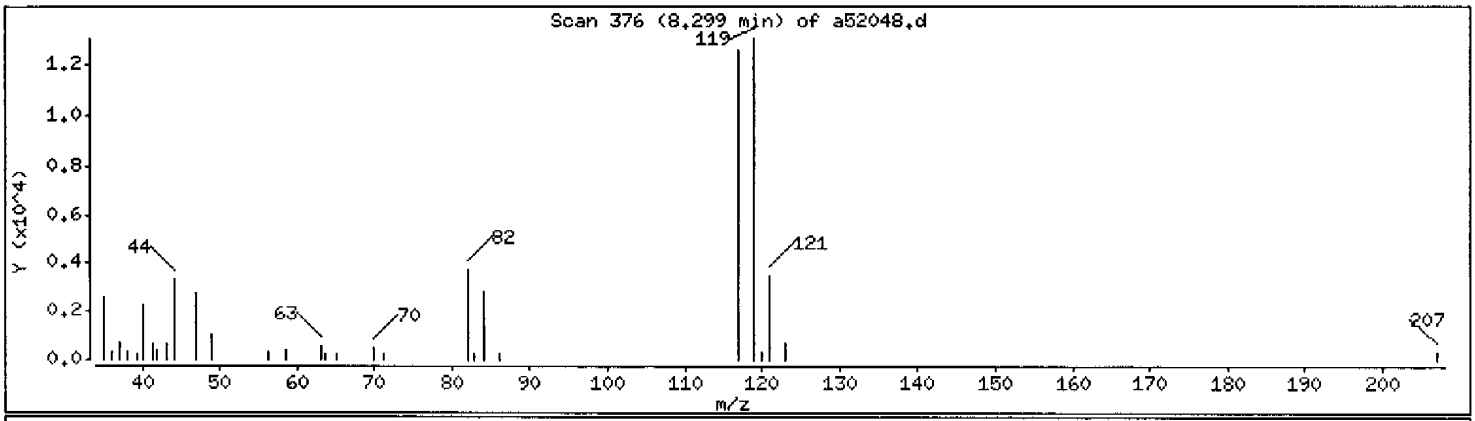
Client ID: MW37B | Instrument: VOAMS1.i

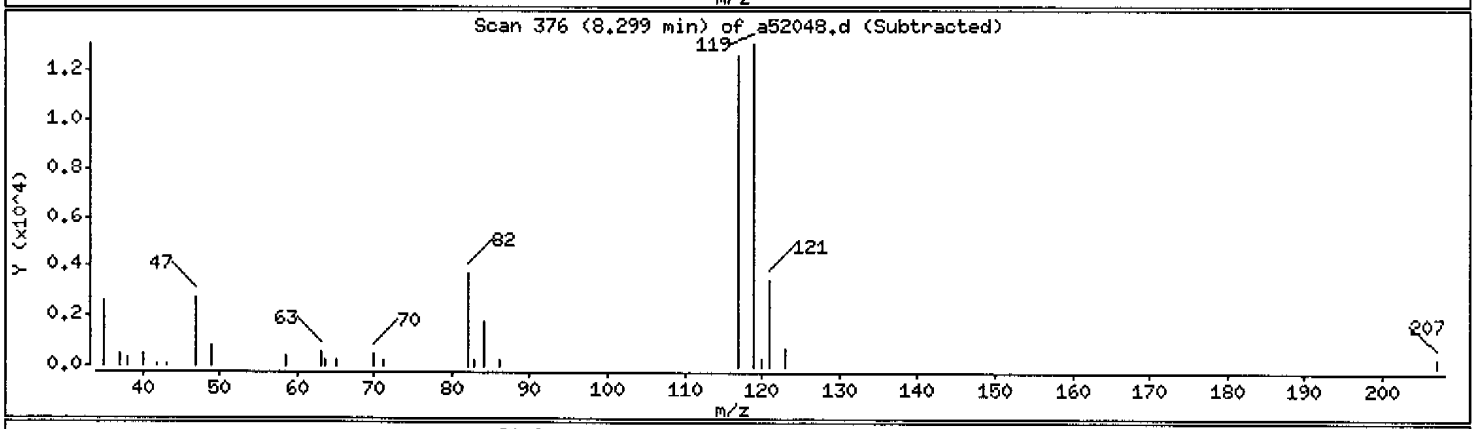
Sample Info: 662403

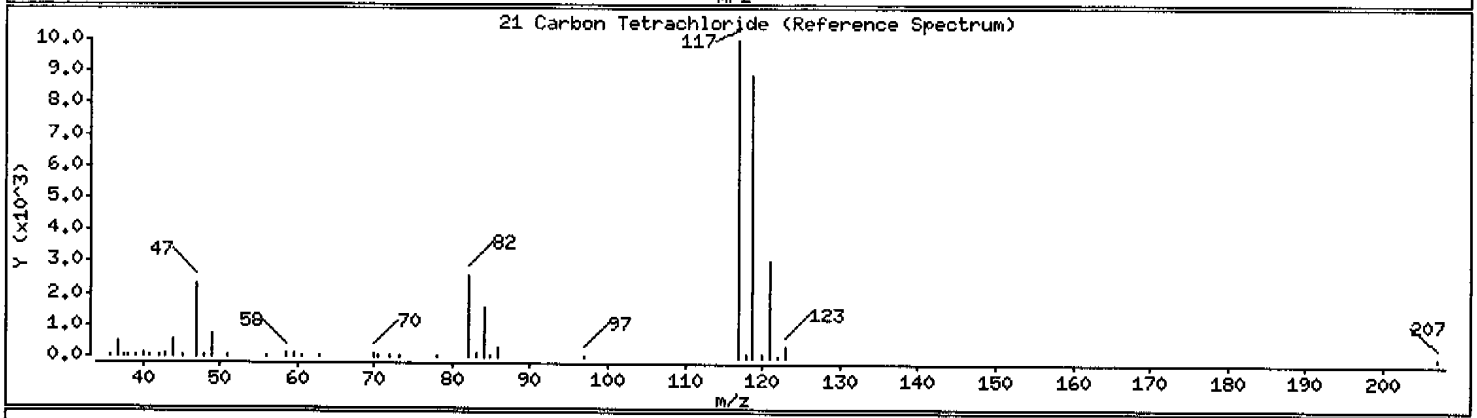
Purge Volume: 5.0 | Operator: VOAMS 1

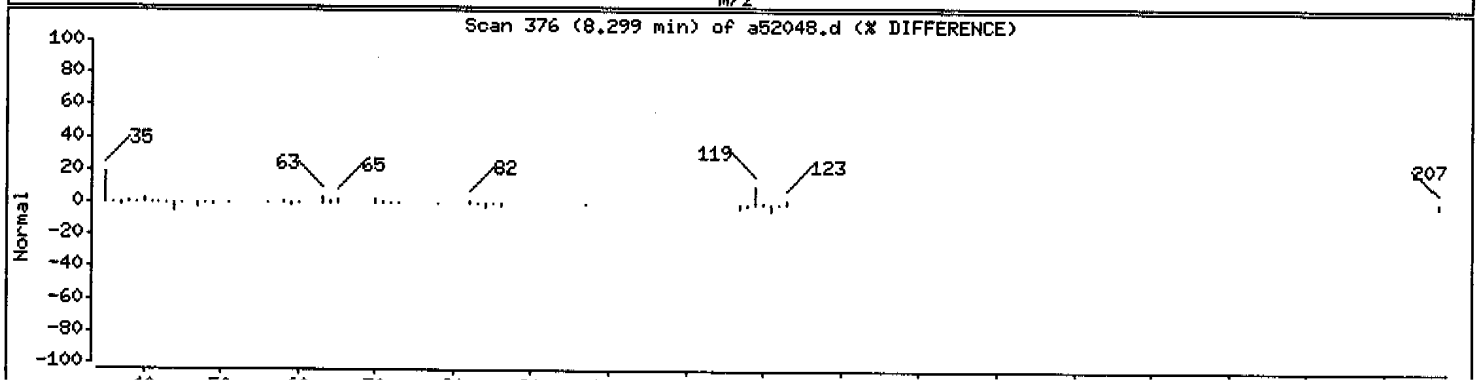
Column phase: DB624 | Column diameter: 0.53

21 Carbon Tetrachloride | Concentration: 2.1 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d

Date : 23-AUG-2005 18:48

Client ID: MW37B

Instrument: VOAMS1.i

Sample Info: 662403

Purge Volume: 5.0

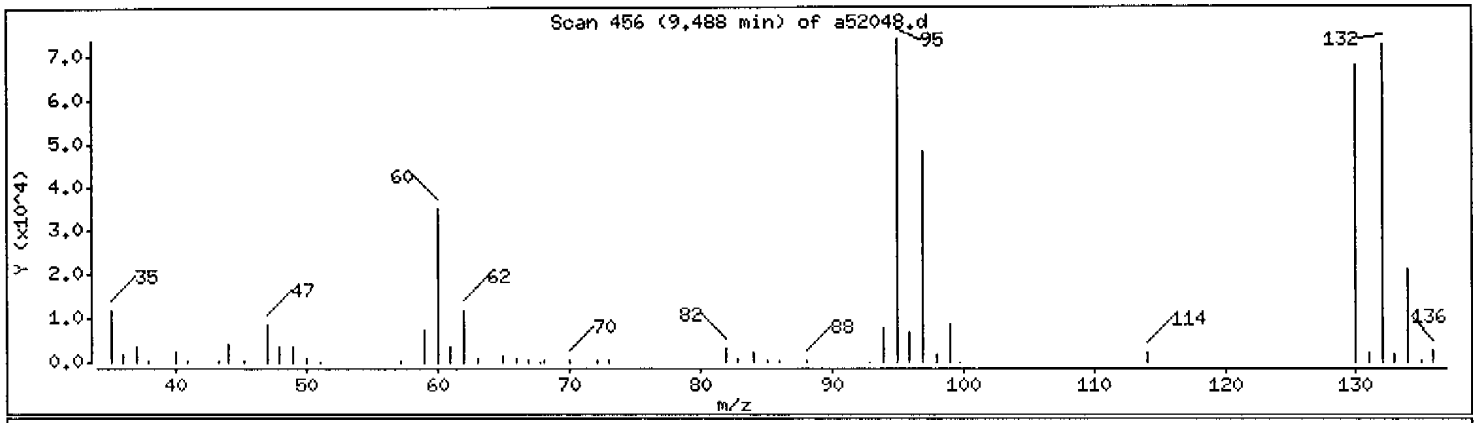
Operator: VOAMS 1

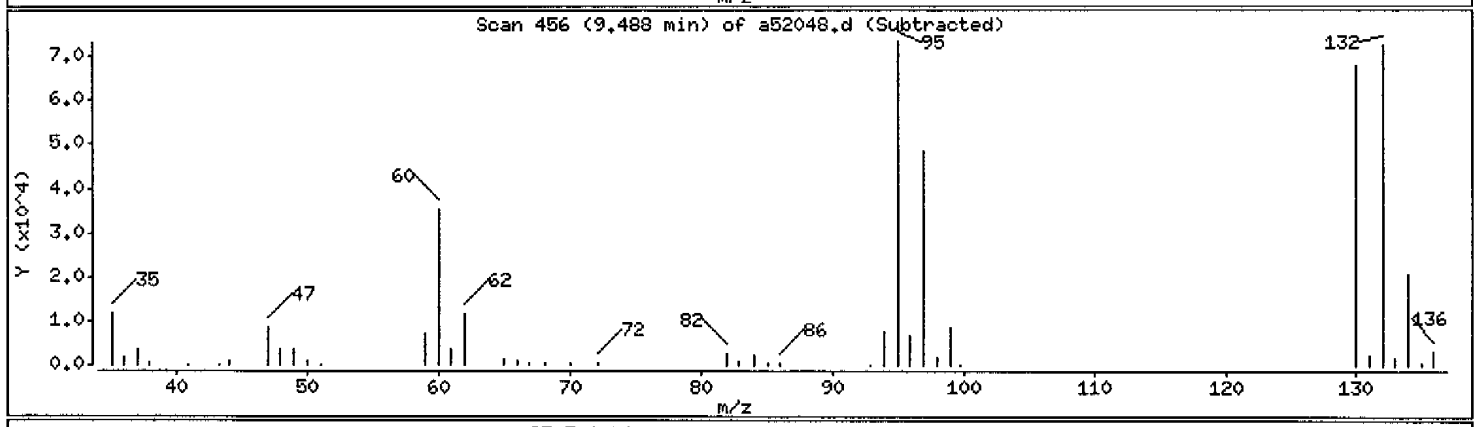
Column phase: DB624

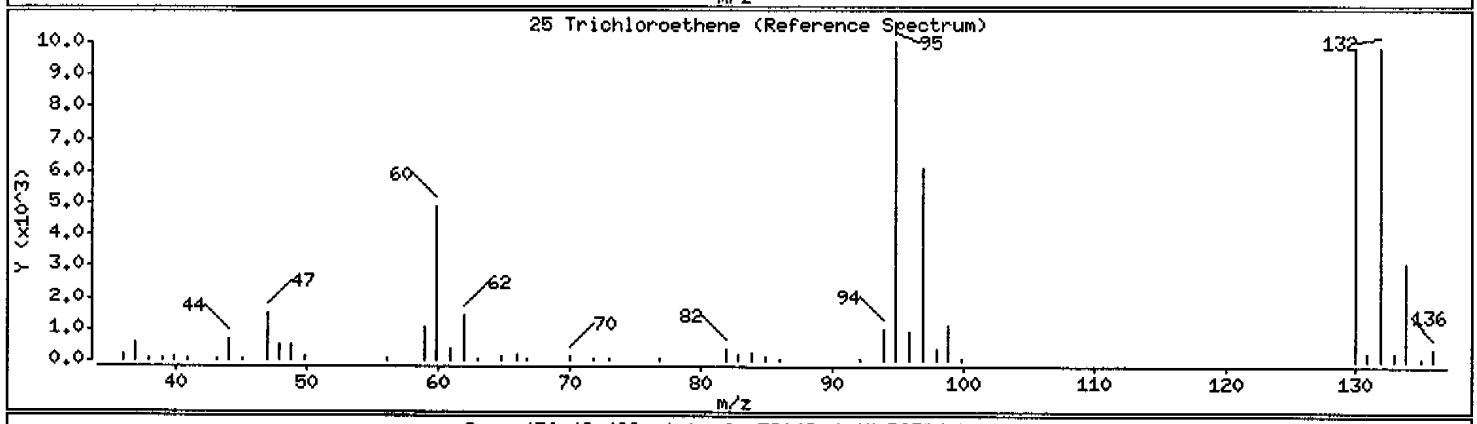
Column diameter: 0.53

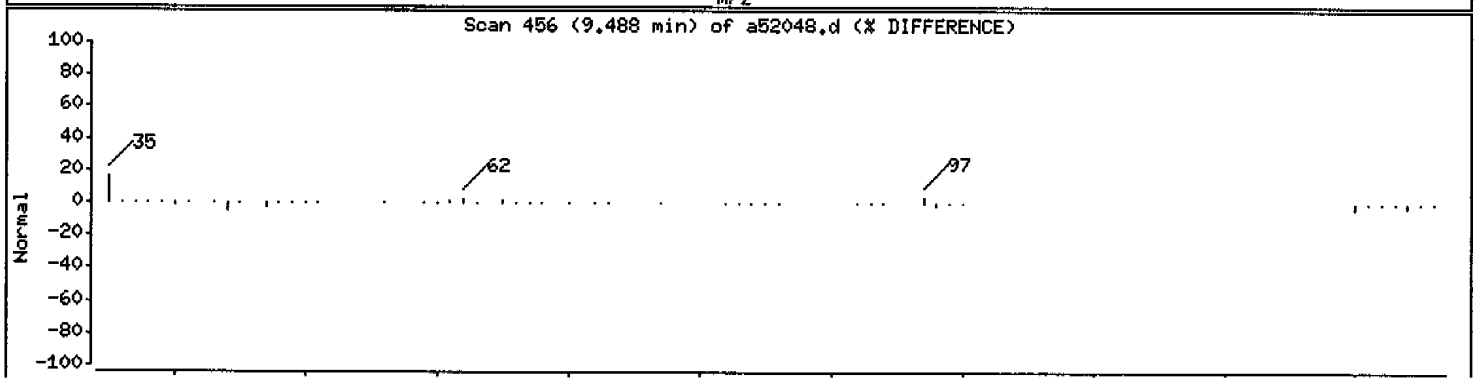
25 Trichloroethene

Concentration: 15 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d

Date : 23-AUG-2005 18:48

Client ID: MW37B

Instrument: VOAMS1.i

Sample Info: 662403

Purge Volume: 5.0

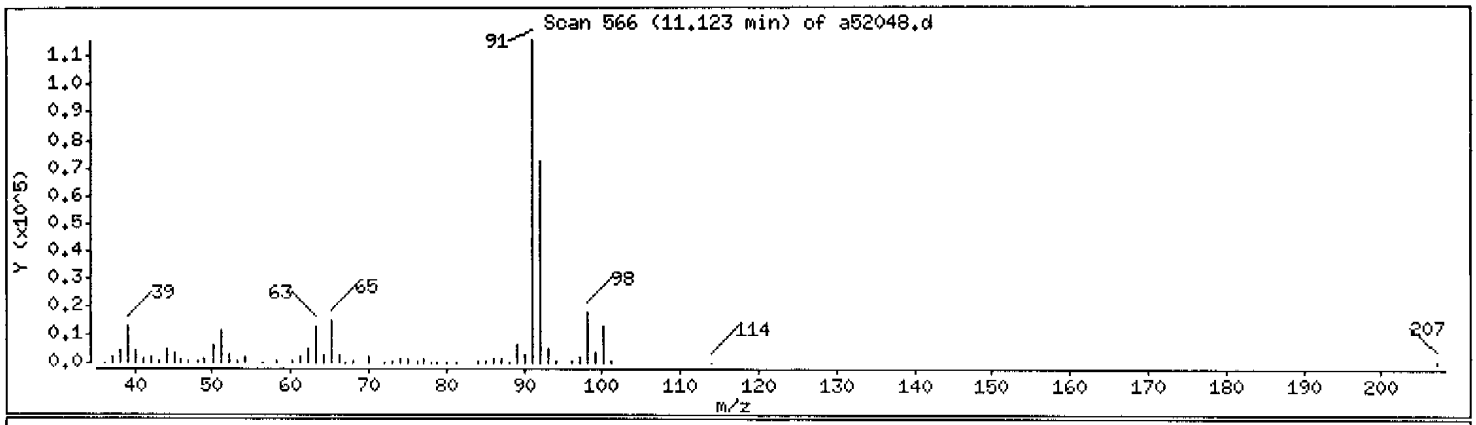
Operator: VOAMS 1

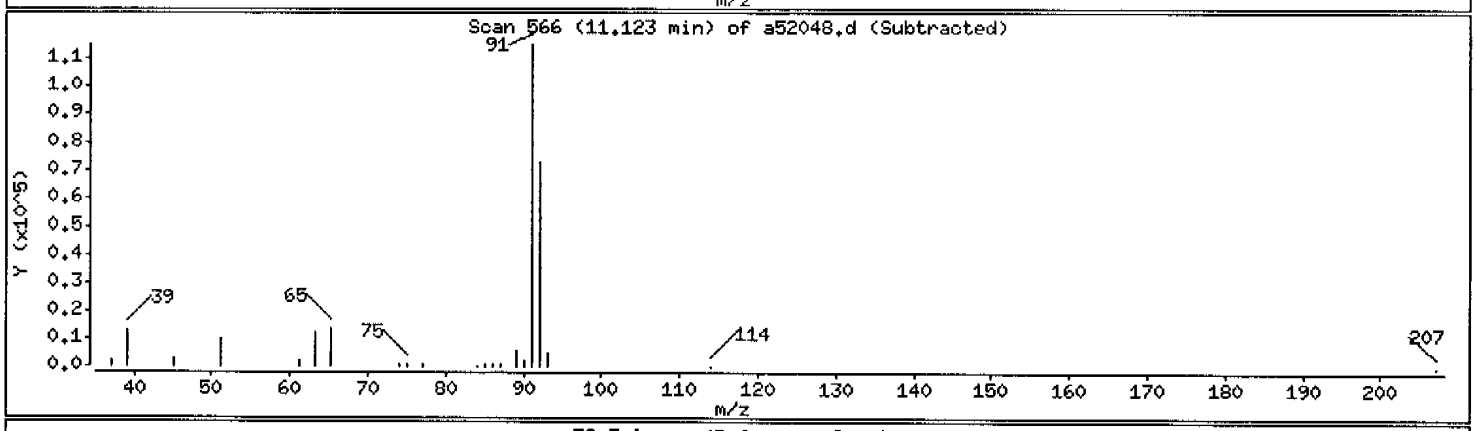
Column phase: DB624

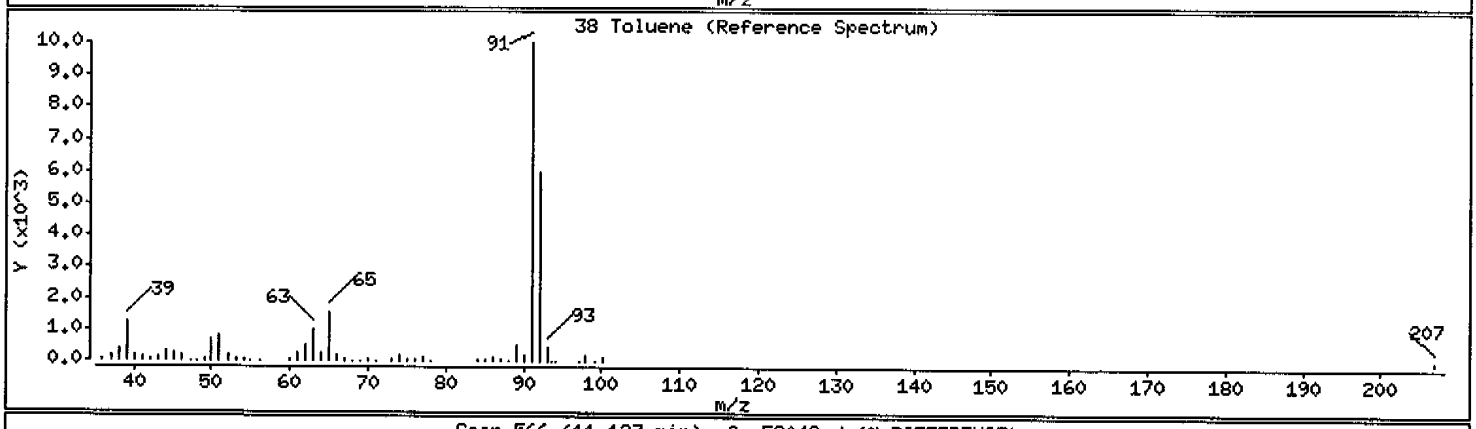
Column diameter: 0.53

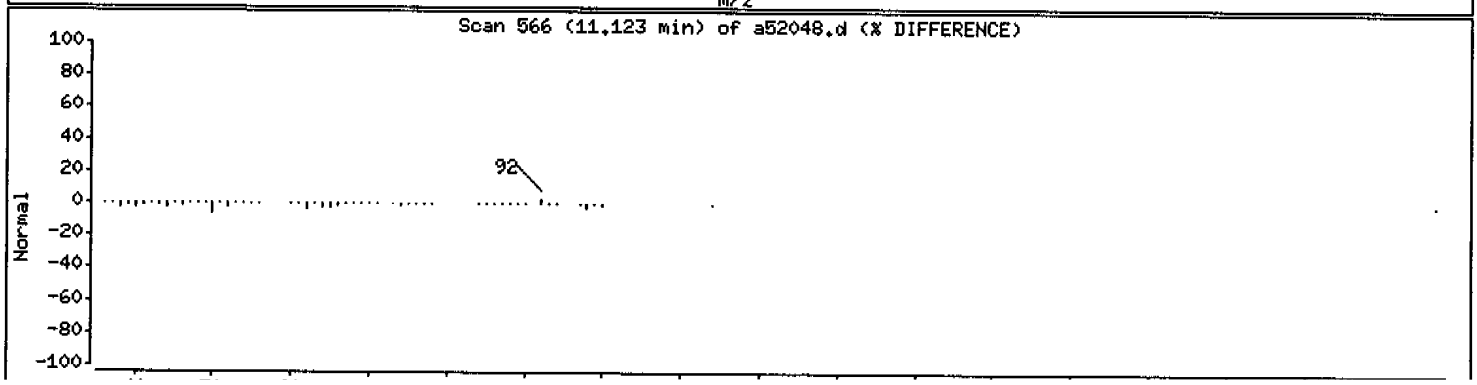
38 Toluene

Concentration: 11 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52048.d

Date : 23-AUG-2005 18:48

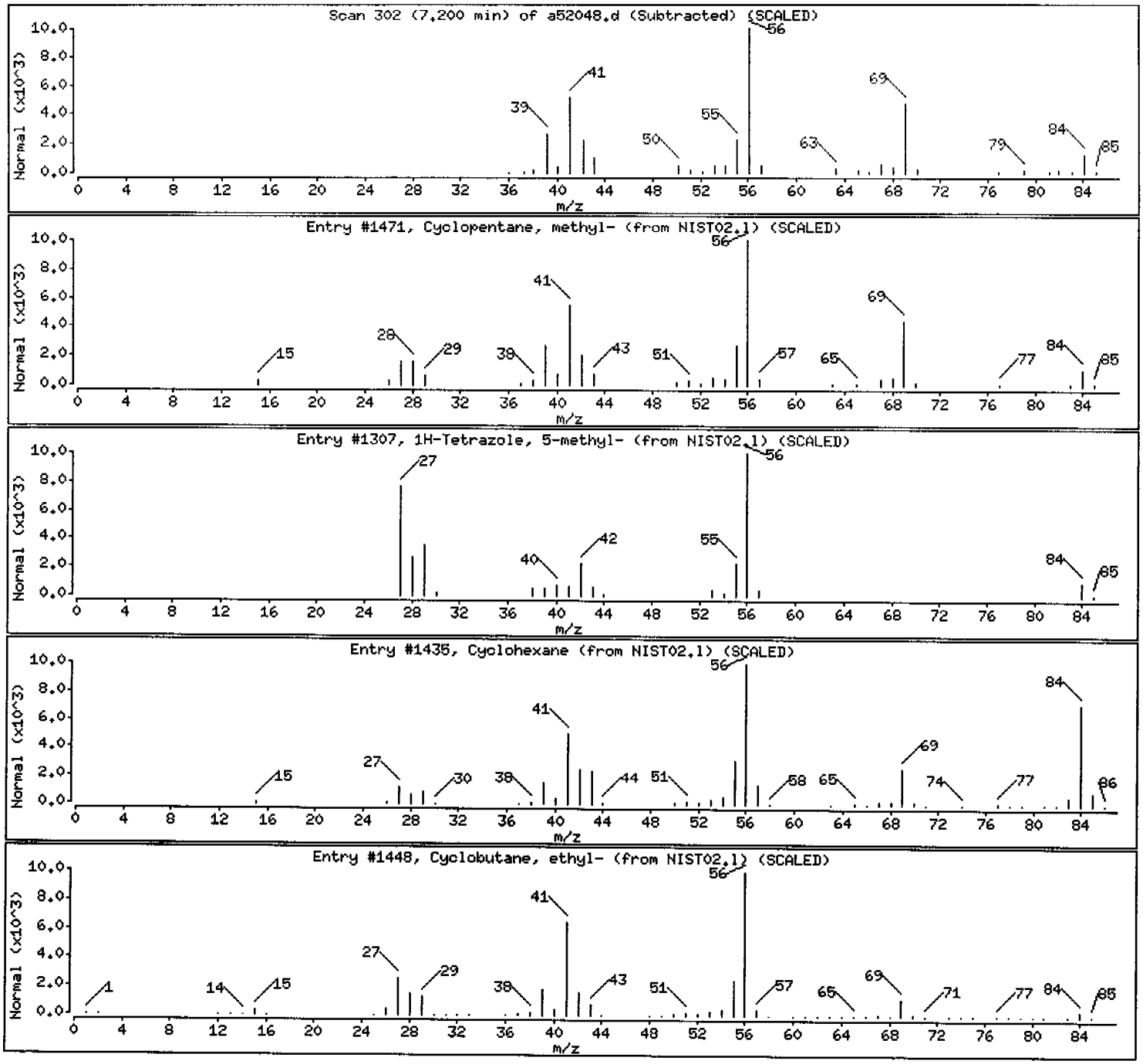
Client ID: MW37B | Instrument: VOAMS1.i

Sample Info: 662403

Purge Volume: 5.0 | Operator: VOAMS 1

Column phase: DB624 | Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C6H12 Cycloalkane						
Cyclopentane, methyl-	96-37-7	NIST02.1	1471	91	C6H12	84
1H-Tetrazole, 5-methyl-	4076-36-2	NIST02.1	1307	72	C2H4N4	84
Cyclohexane	110-82-7	NIST02.1	1435	72	C6H12	84
Cyclobutane, ethyl-	4806-61-5	NIST02.1	1448	64	C6H12	84



Client ID: **MW4A**
Site: Phillipsburg

Lab Sample No: **662404**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52049.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	37	0.3
Chloroethane	ND	0.2
Methylene Chloride	ND	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	0.6	0.4
1,1-Dichloroethane	1.2	0.3
trans-1,2-Dichloroethene	0.8	0.4
cis-1,2-Dichloroethene	64	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	0.5	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	17	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	14	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	2.8	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **MW4A**
Site: Phillipsburg

Lab Sample No: **662404**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52049.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
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.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d
Report Date: 24-Aug-2005 08:57

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

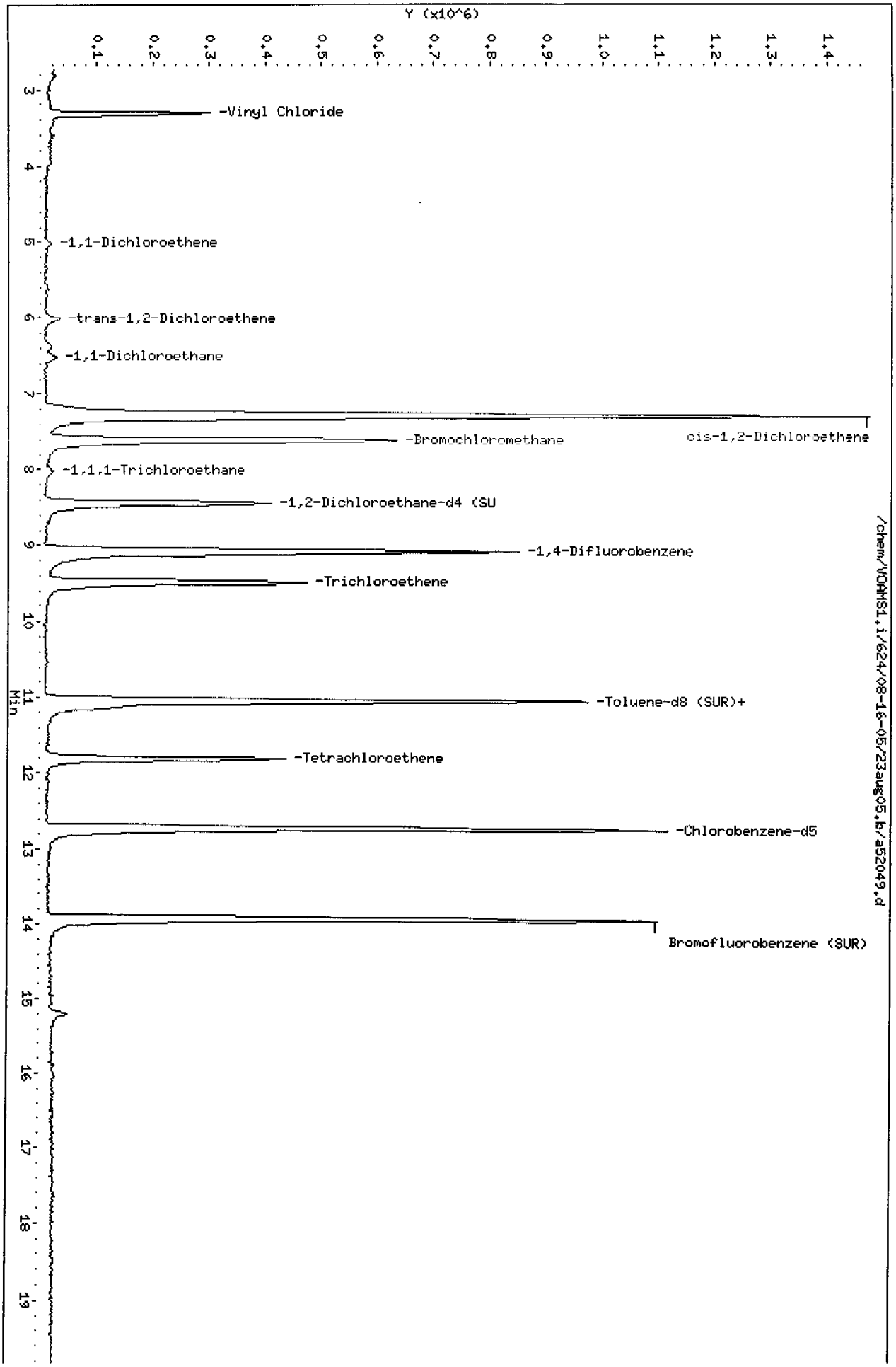
Data file : /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d
Lab Smp Id: 662404 Client Smp ID: MW4A
Inj Date : 23-AUG-2005 19:16
Operator : VOAMS 1 Inst ID: VOAMS1.i
Smp Info : 662404
Misc Info : E123;9305;;JT
Comment :
Method : /chem/VOAMS1.i/624/08-16-05/23aug05.b/624_05.m
Meth Date : 24-Aug-2005 08:42 moroneyc Quant Type: ISTD
Cal Date : 17-AUG-2005 03:17 Cal File: a51930.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	4 Vinyl Chloride	62	3.310	3.305	(0.435)	450097	36.9067	37
	10 1,1-Dichloroethene	96	5.019	4.999	(0.660)	10020	0.59462	0.59
	12 trans-1,2-Dichloroethene	96	6.000	5.965	(0.789)	17464	0.82611	0.83
	11 1,1-Dichloroethane	63	6.505	6.500	(0.855)	46538	1.25947	1.2
	13 cis-1,2-Dichloroethene	96	7.278	7.258	(0.957)	1414414	64.3160	64
*	2 Bromochloromethane	128	7.605	7.585	(1.000)	401252	30.0000	
	20 1,1,1-Trichloroethane	97	8.021	8.002	(1.055)	18395	0.49182	0.49
$	16 1,2-Dichloroethane-d4 (SUR)	104	8.437	8.418	(0.930)	89633	31.2955	31
*	19 1,4-Difluorobenzene	114	9.076	9.057	(1.000)	1638321	30.0000	
	25 Trichloroethene	95	9.492	9.473	(1.046)	377432	17.3776	17
$	37 Toluene-d8 (SUR)	98	11.038	11.018	(0.868)	1426854	30.2223	30
	38 Toluene	91	11.127	11.108	(0.875)	135860	2.84948	2.8
	35 Tetrachloroethene	166	11.796	11.791	(0.928)	272294	14.0045	14
*	32 Chlorobenzene-d5	117	12.717	12.713	(1.000)	1247437	30.0000	
$	41 Bromofluorobenzene (SUR)	174	13.921	13.946	(1.095)	616806	28.1524	28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Date : 23-AUG-2005 19:16
Client ID: MW4A
Sample Info: 662404
Purge Volume: 5.0
Column phase: DB624
Instrument: VOAMS1.i
Operator: VOAMS 1
Column diameter: 0.53
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
-Vinyl Chloride
-1,1-Dichloroethene
-trans-1,2-Dichloroethene
-1,1-Dichloroethane
-Bromochloromethane
cis-1,2-Dichloroethene
-1,1,1-Trichloroethane
-1,2-Dichloroethane-d4 (SU
-1,4-Difluorobenzene
-Trichloroethene
-Toluene-d8 (SUR)+
-Tetrachloroethene
-Chlorobenzene-d5
Bromofluorobenzene (SUR)
/chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d
Min
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d

Date : 23-AUG-2005 19:16

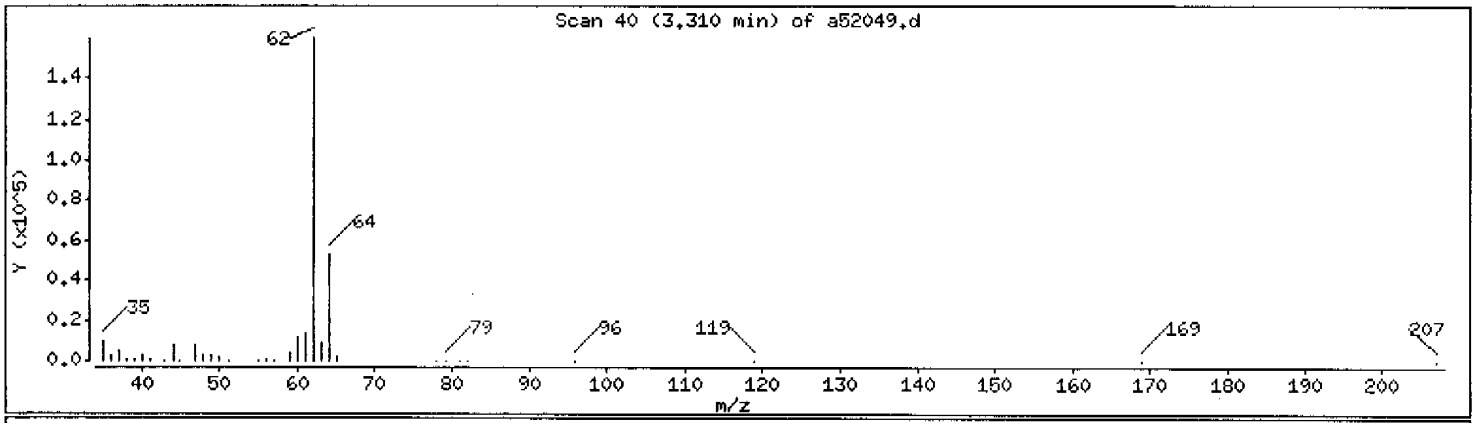
Client ID: MW4A | Instrument: VOAMS1.i

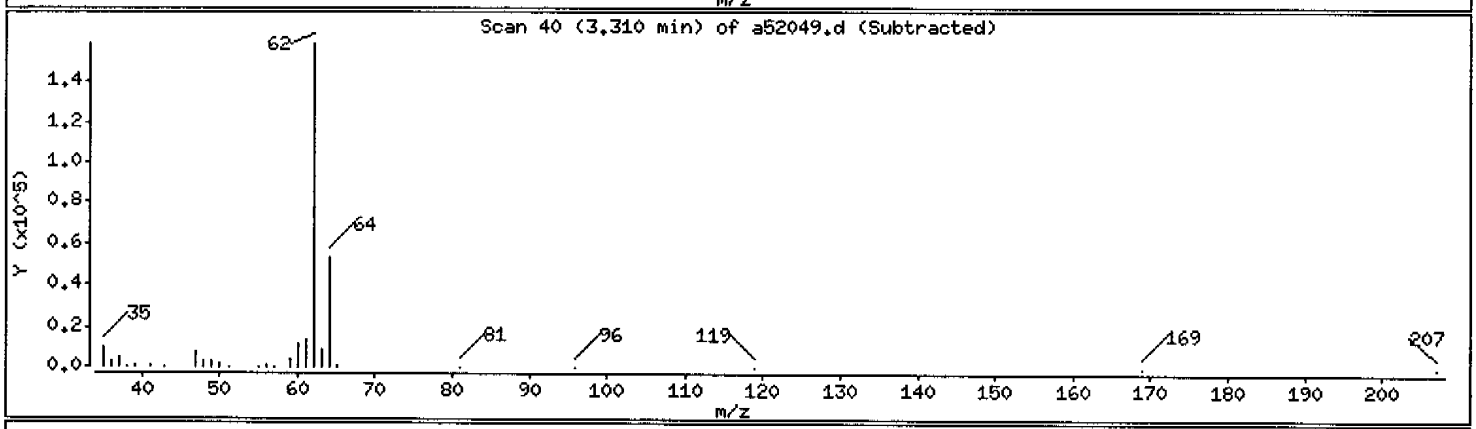
Sample Info: 662404

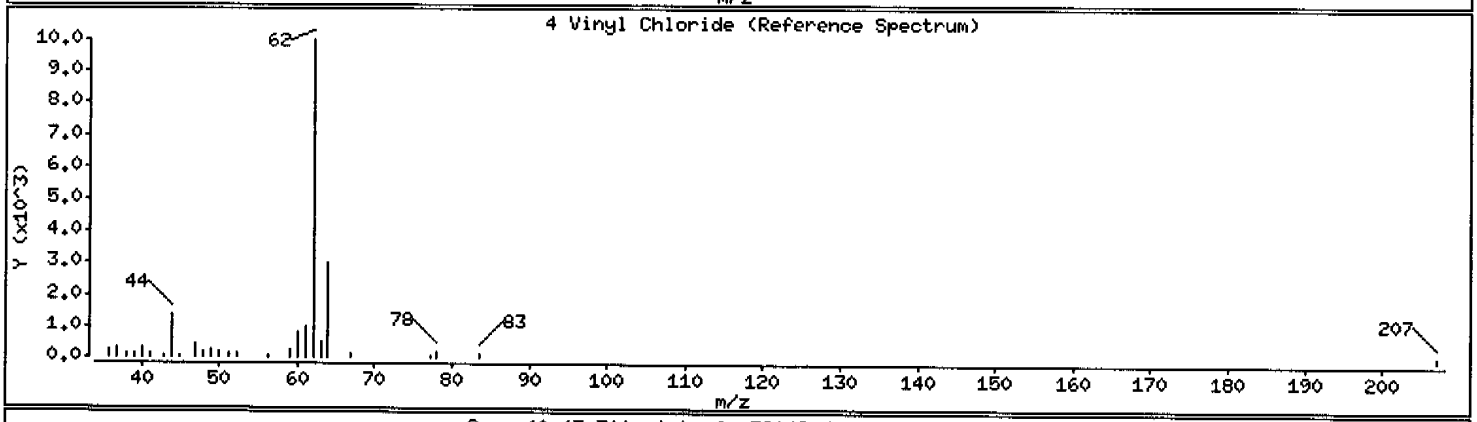
Purge Volume: 5.0 | Operator: VOAMS 1

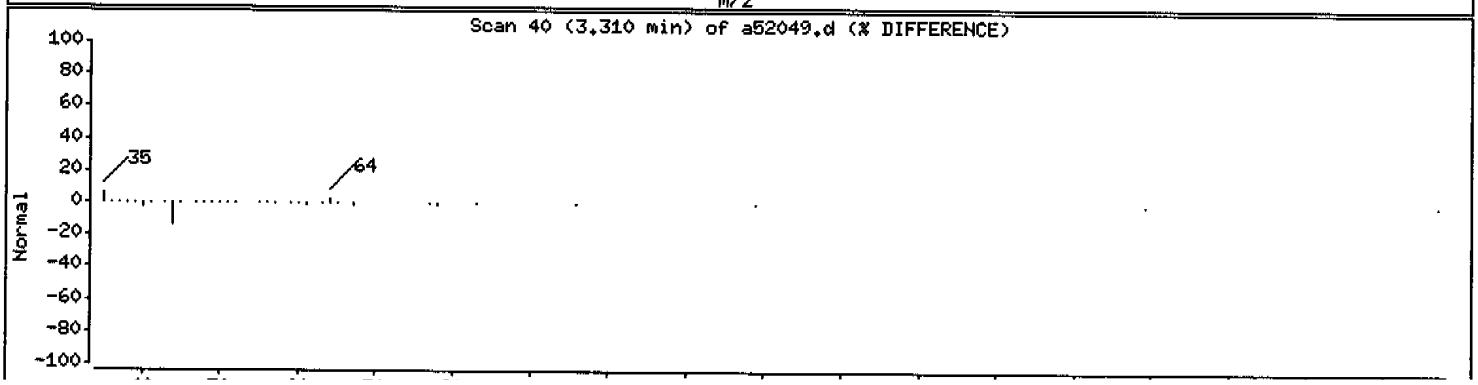
Column phase: DB624 | Column diameter: 0.53

4 Vinyl Chloride | Concentration: 37 ug/L









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Date : 23-AUG-2005 19:16

Client ID: MW4A

Instrument: VOAMS1.i

Sample Info: 662404

Purge Volume: 5.0

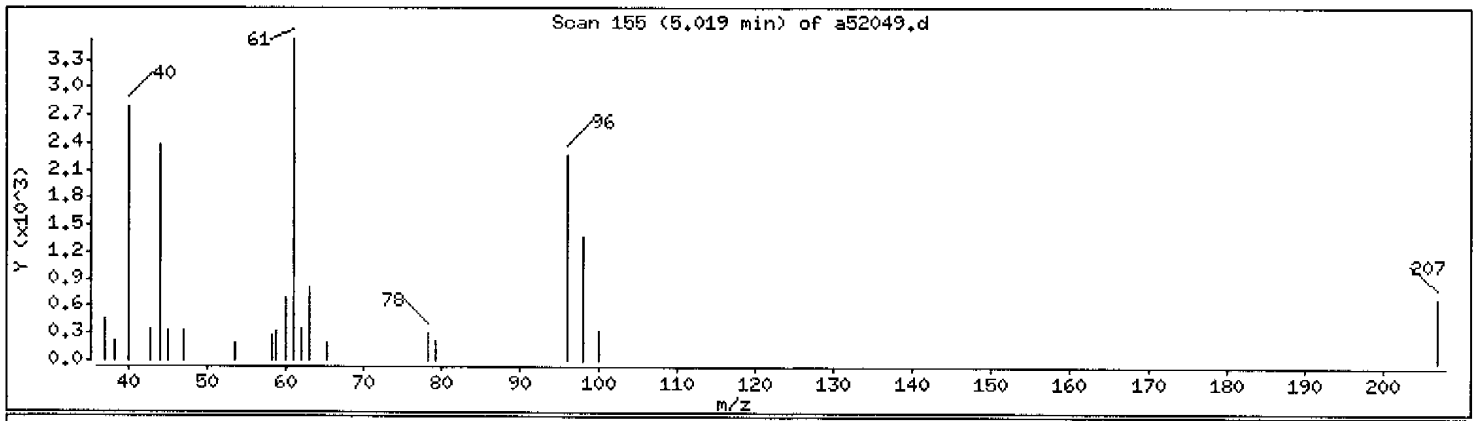
Operator: VOAMS 1

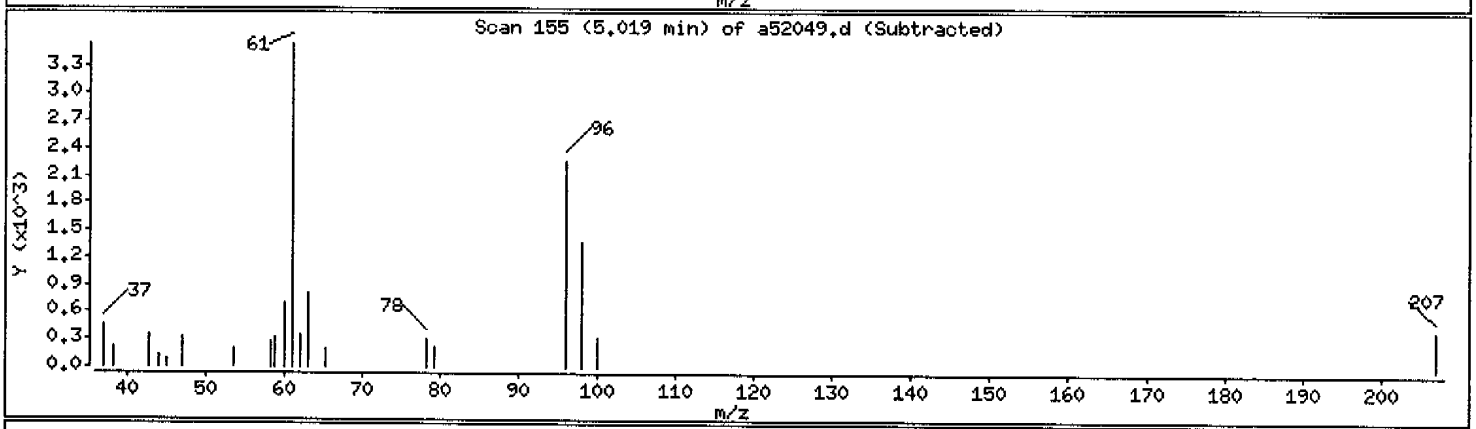
Column phase: DB624

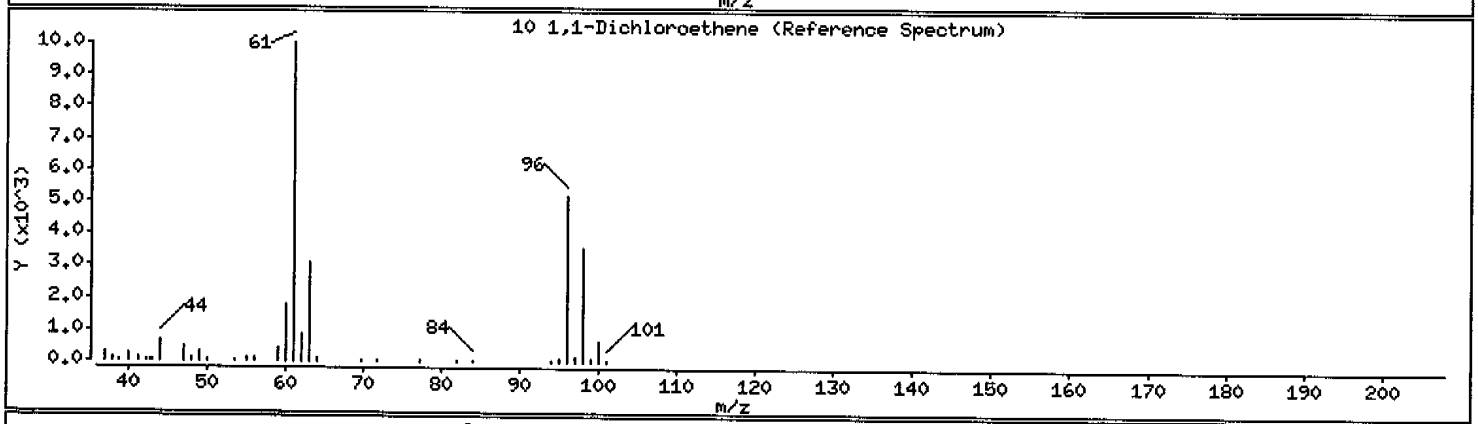
Column diameter: 0.53

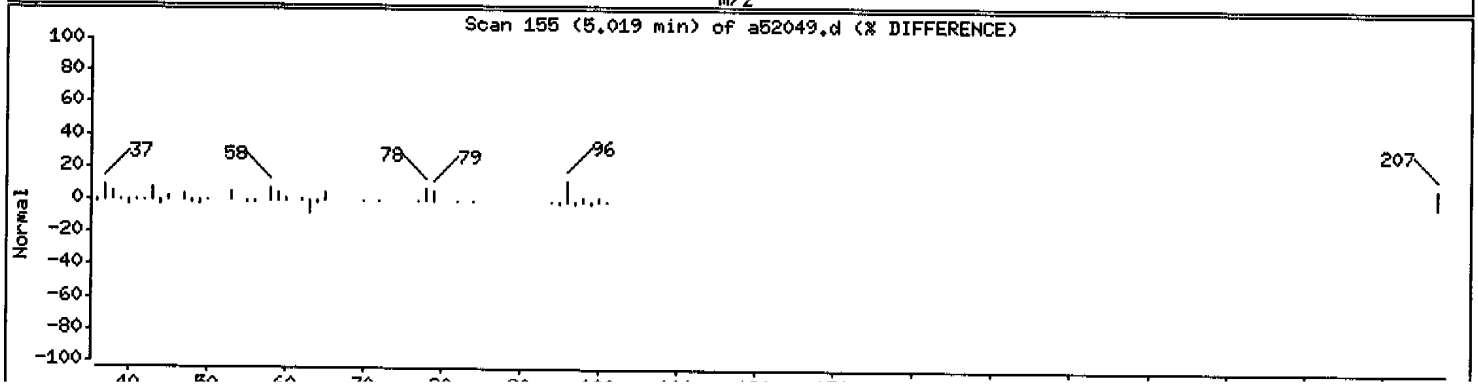
10 1,1-Dichloroethene

Concentration: 0.59 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d

Date : 23-AUG-2005 19:16

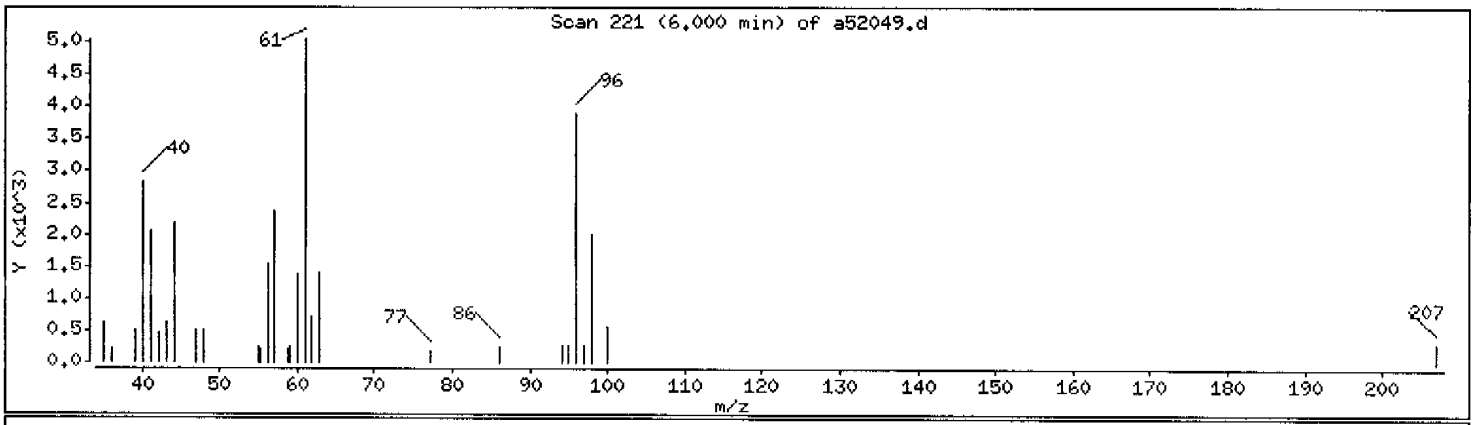
Client ID: MW4A | Instrument: VOAMS1.i

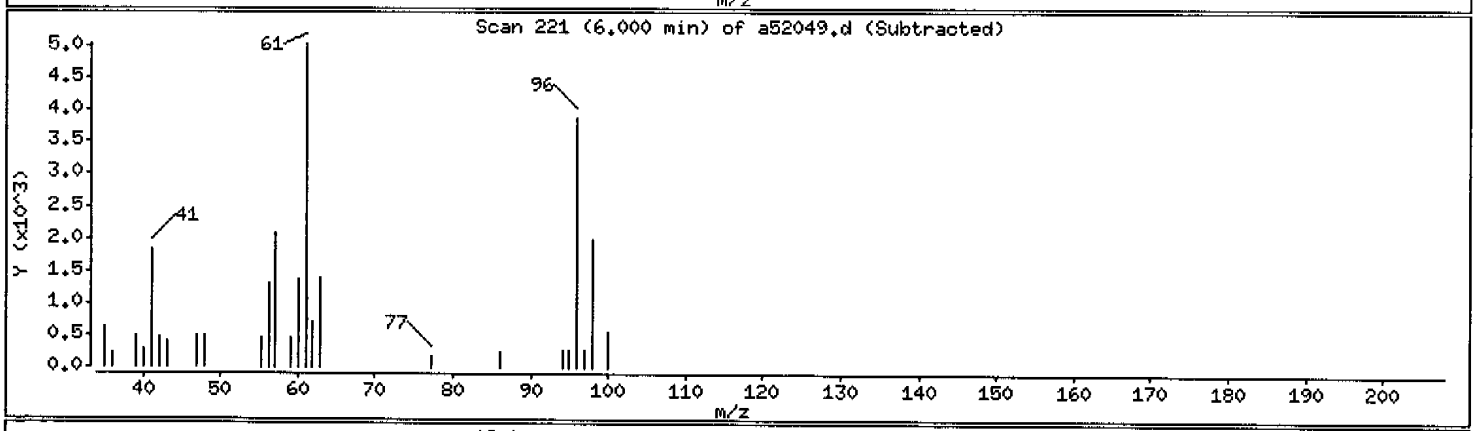
Sample Info: 662404

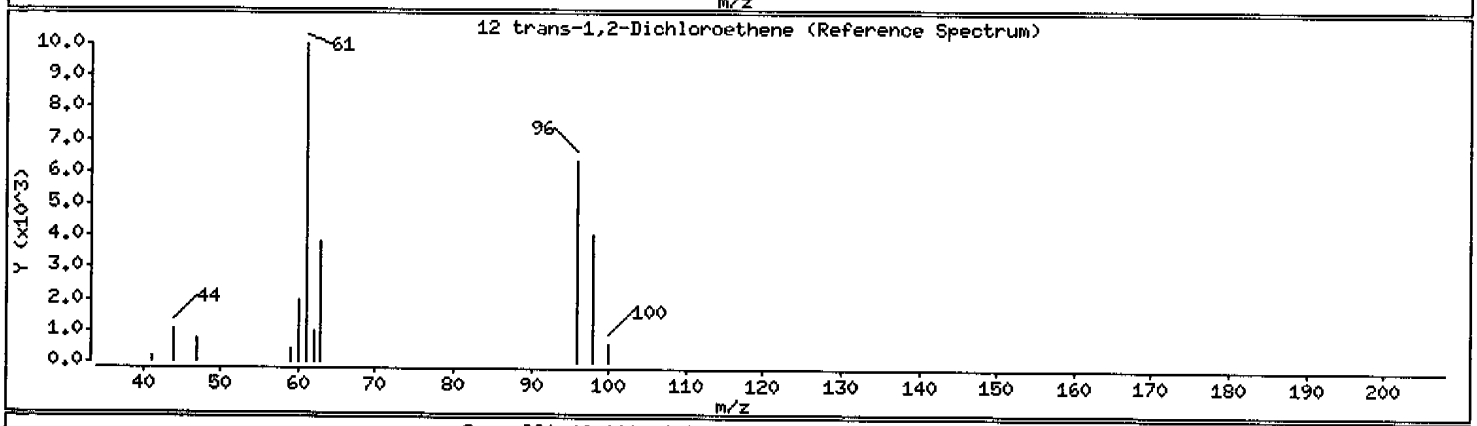
Purge Volume: 5.0 | Operator: VOAMS 1

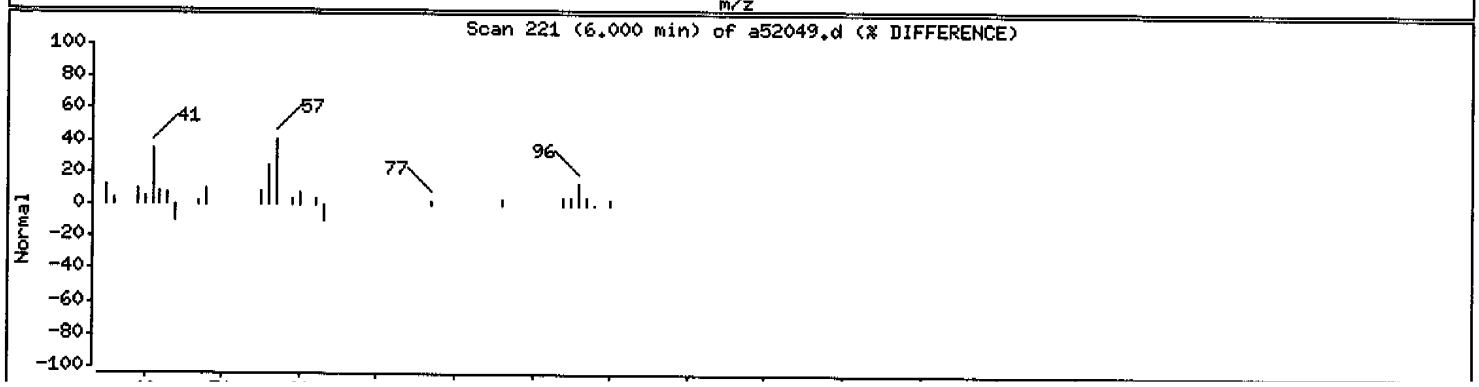
Column phase: DB624 | Column diameter: 0.53

12 trans-1,2-Dichloroethene | Concentration: 0.83 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d

Date : 23-AUG-2005 19:16

Client ID: MW4A

Instrument: VOAMS1.i

Sample Info: 662404

Purge Volume: 5.0

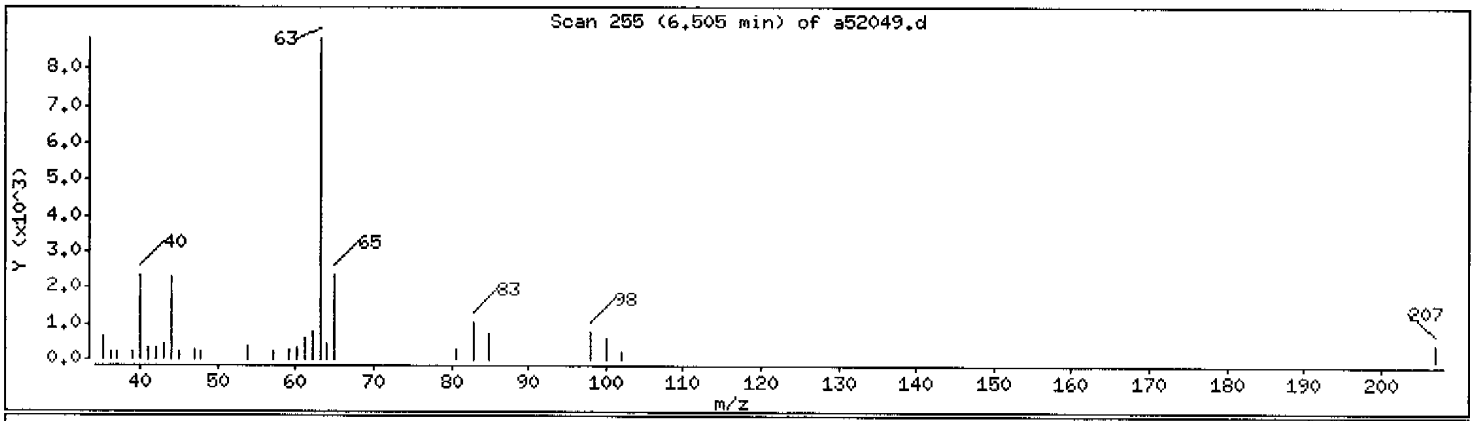
Operator: VOAMS 1

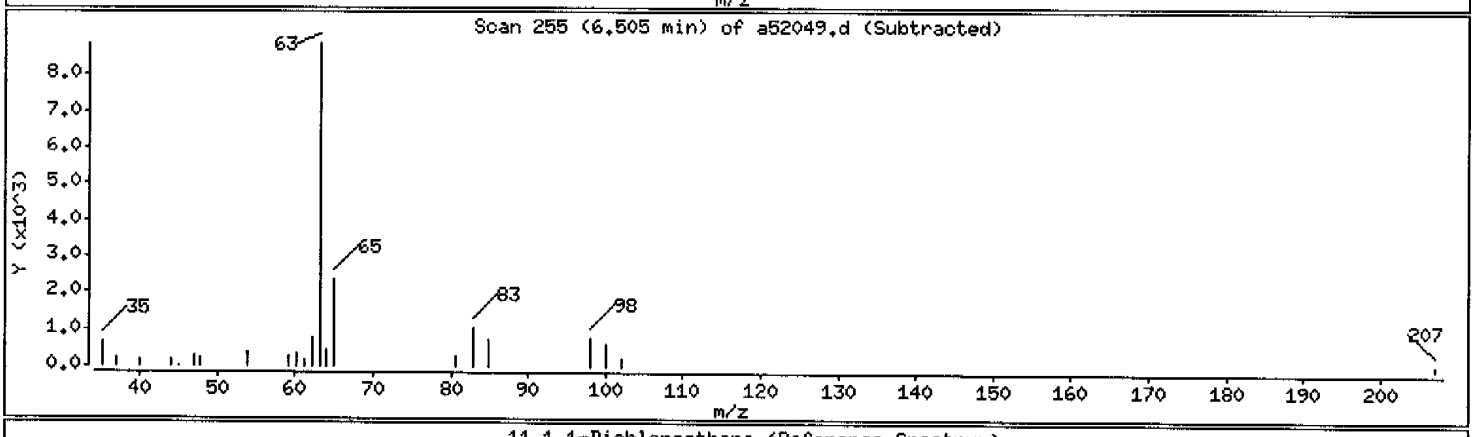
Column phase: DB624

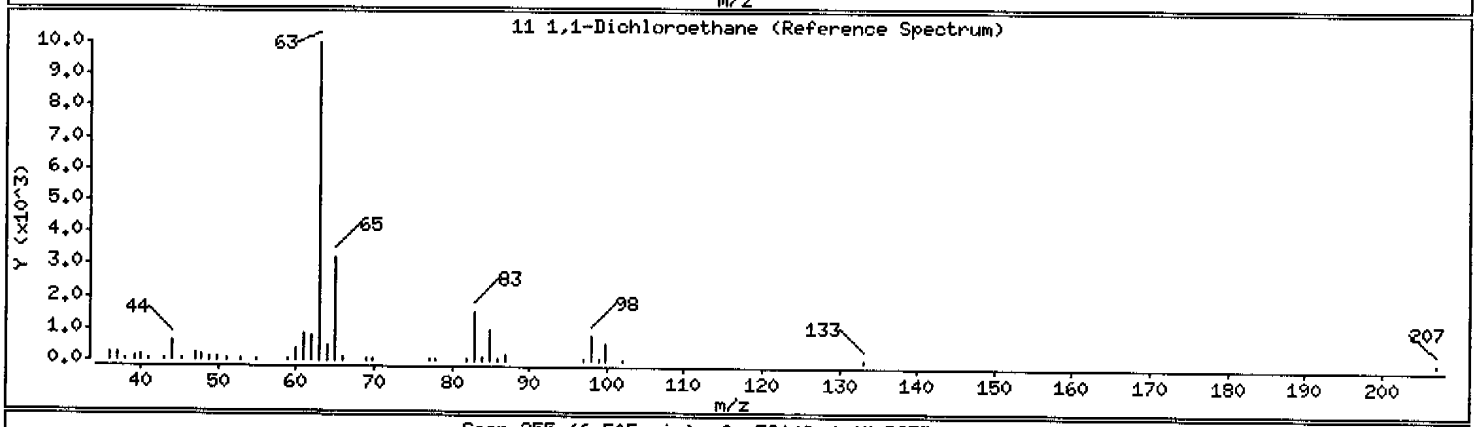
Column diameter: 0.53

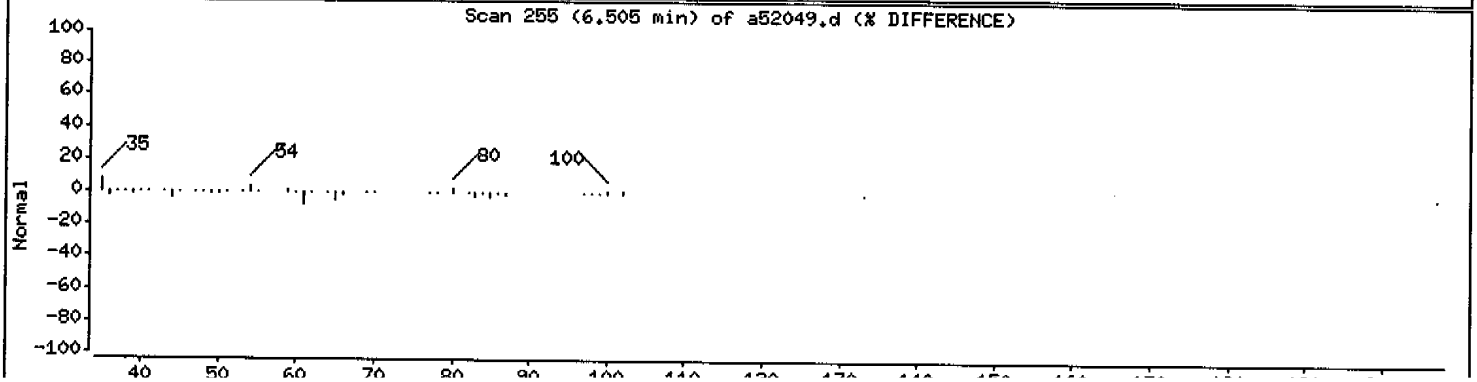
11 1,1-Dichloroethane

Concentration: 1.2 ug/L









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Date : 23-AUG-2005 19:16

Client ID: MW4A

Instrument: VOAMS1.i

Sample Info: 662404

Purge Volume: 5.0

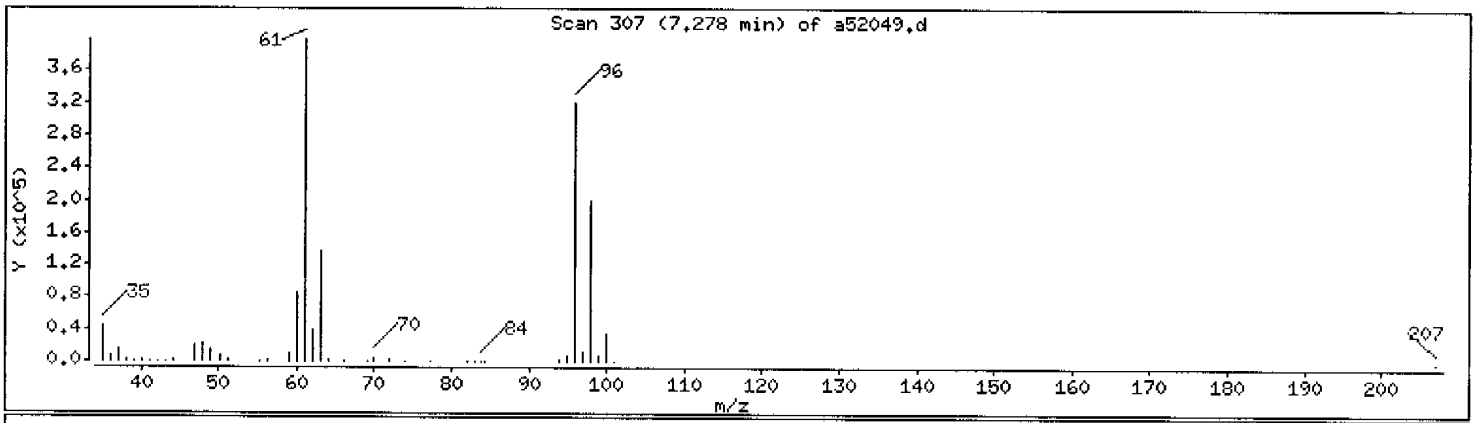
Operator: VOAMS 1

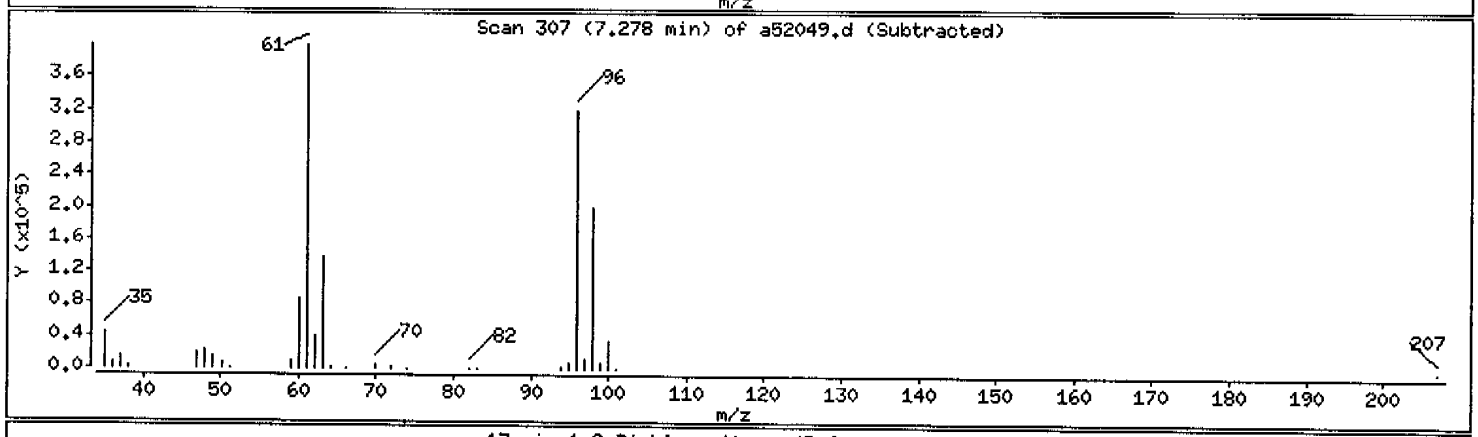
Column phase: DB624

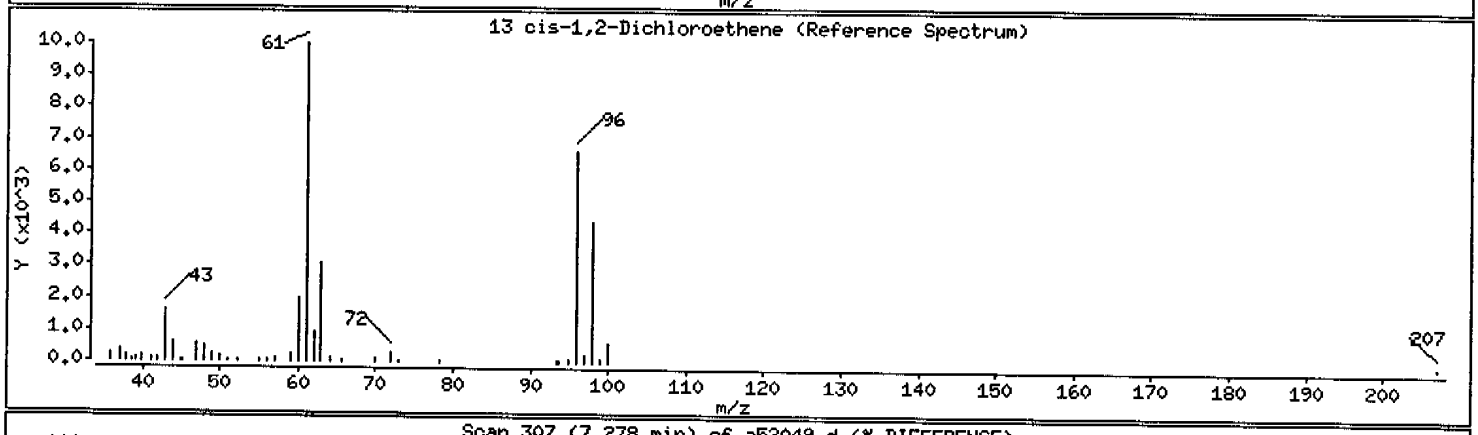
Column diameter: 0.53

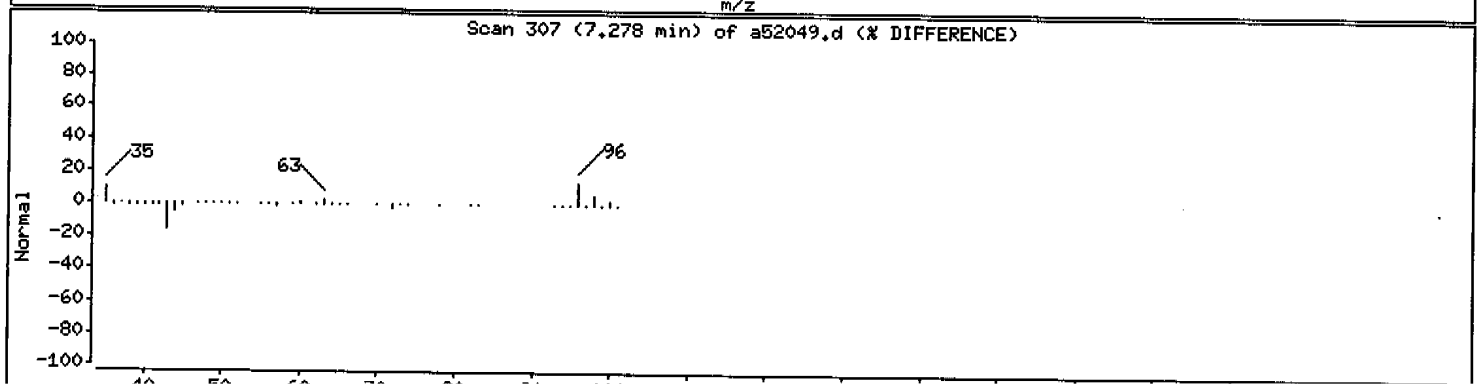
13 cis-1,2-Dichloroethene

Concentration: 64 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d

Date : 23-AUG-2005 19:16

Client ID: MW4A

Instrument: VOAMS1.i

Sample Info: 662404

Purge Volume: 5.0

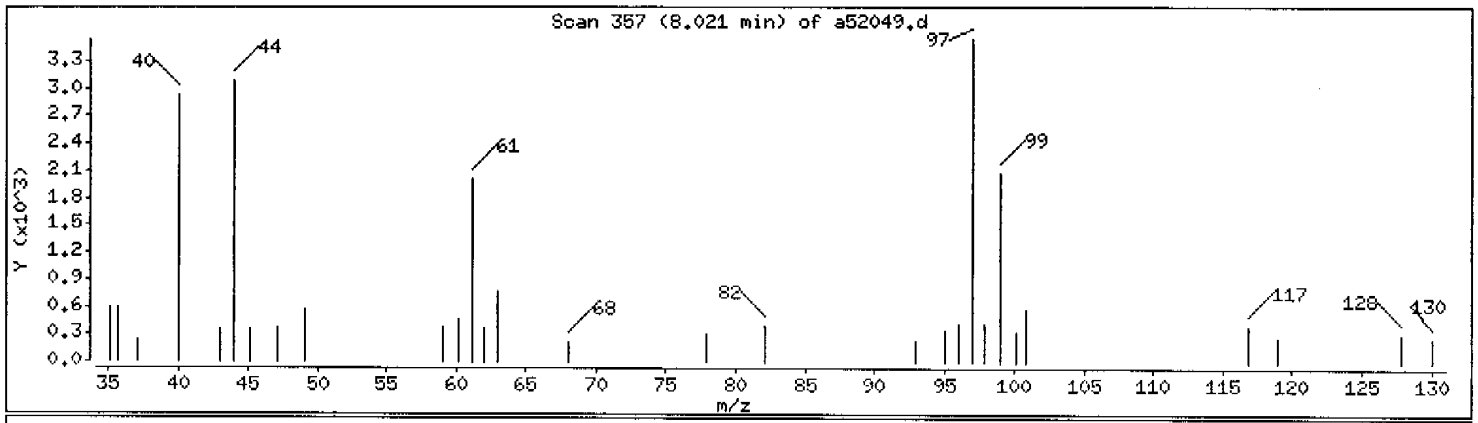
Operator: VOAMS 1

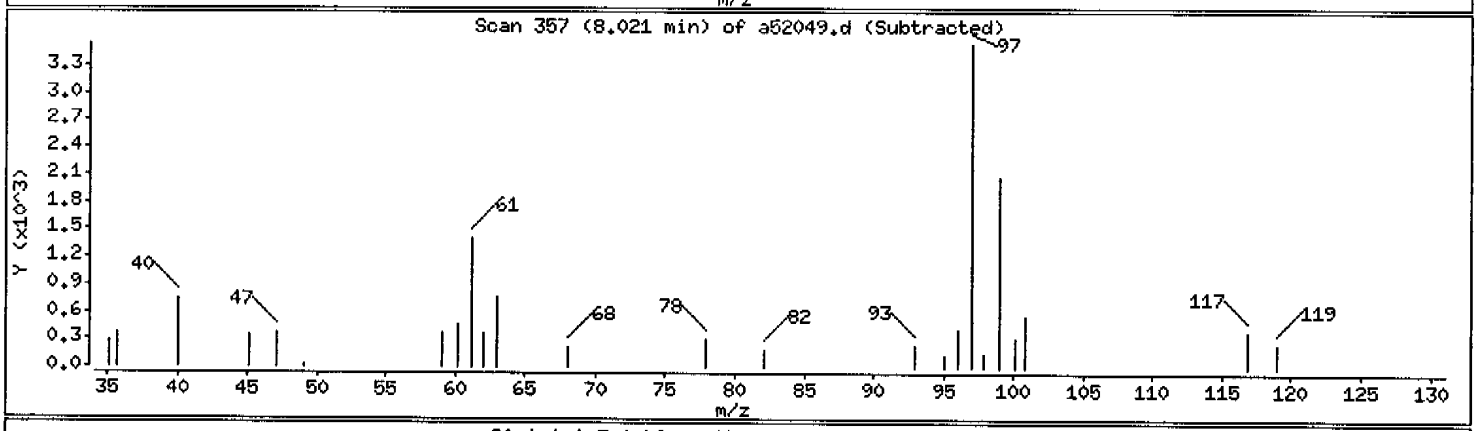
Column phase: DB624

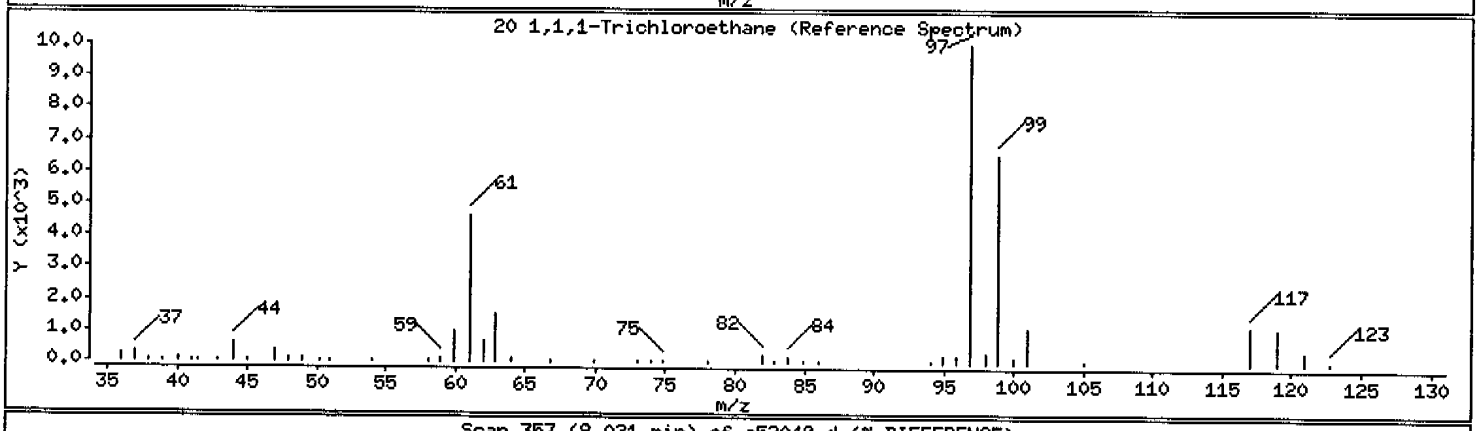
Column diameter: 0.53

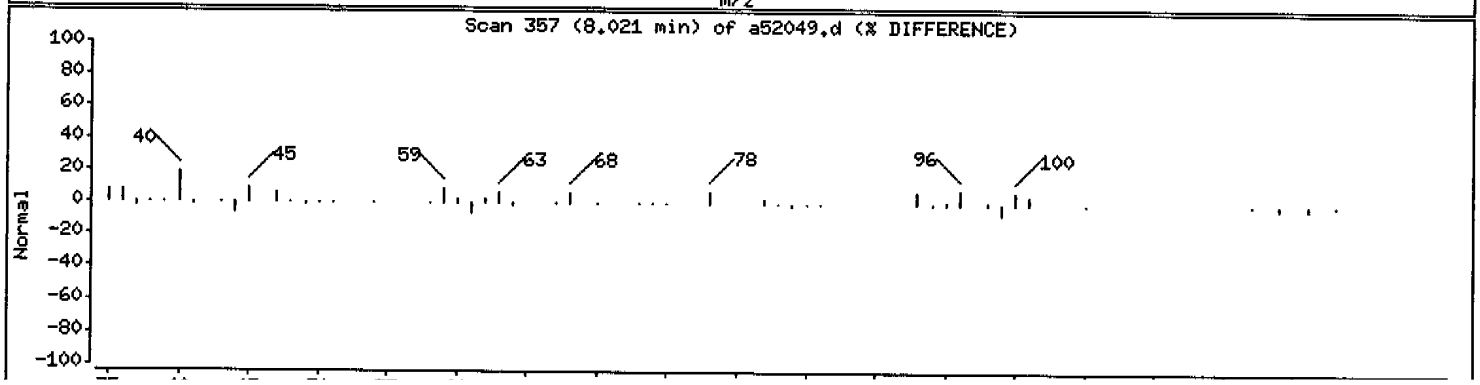
20 1,1,1-Trichloroethane

Concentration: 0.49 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d

Date : 23-AUG-2005 19:16

Client ID: MW4A

Instrument: VOAMS1.i

Sample Info: 662404

Purge Volume: 5.0

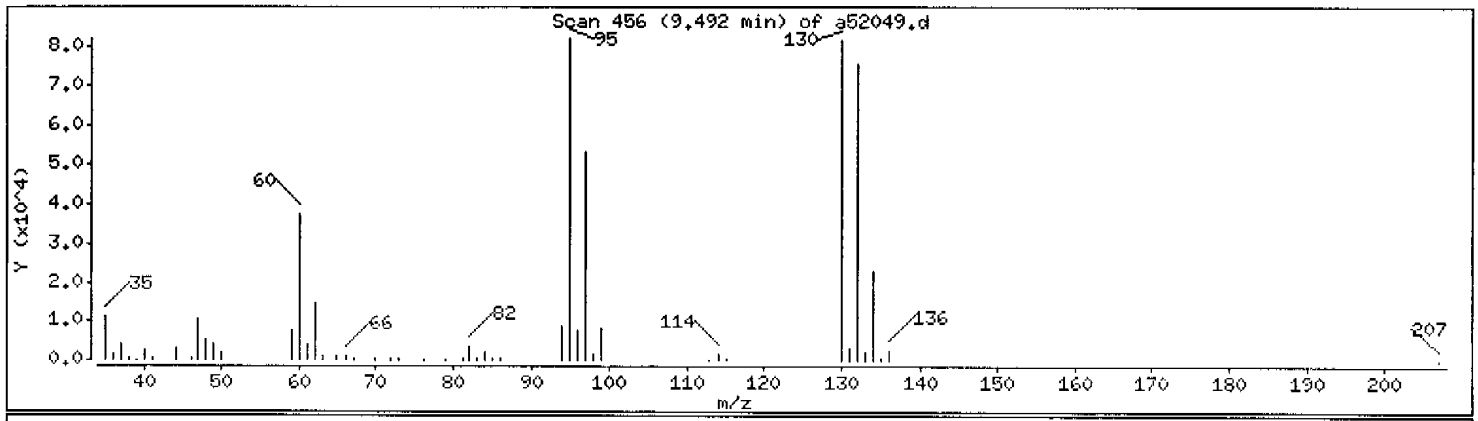
Operator: VOAMS 1

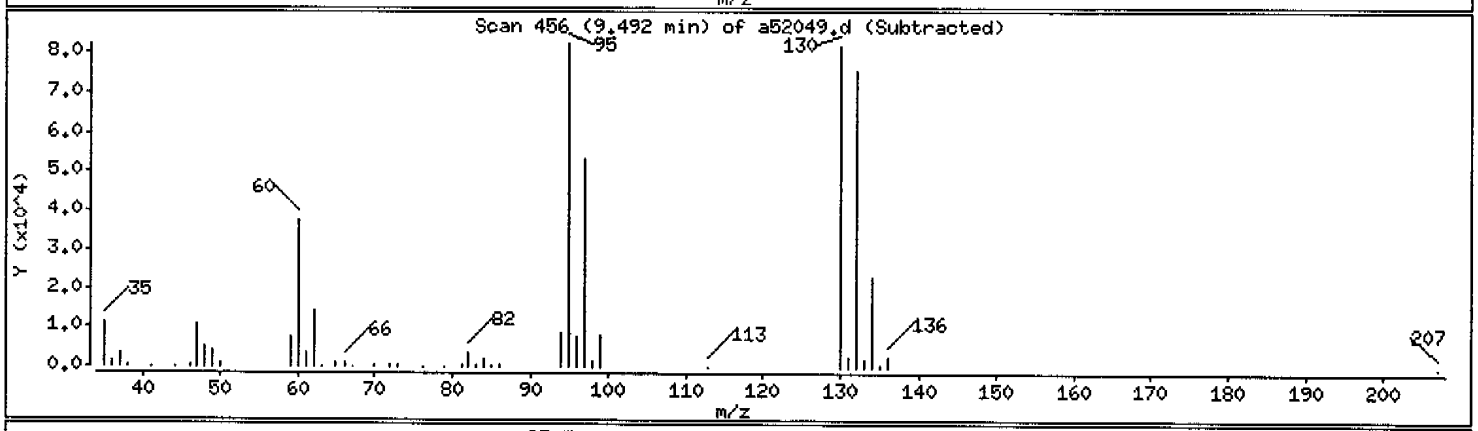
Column phase: DB624

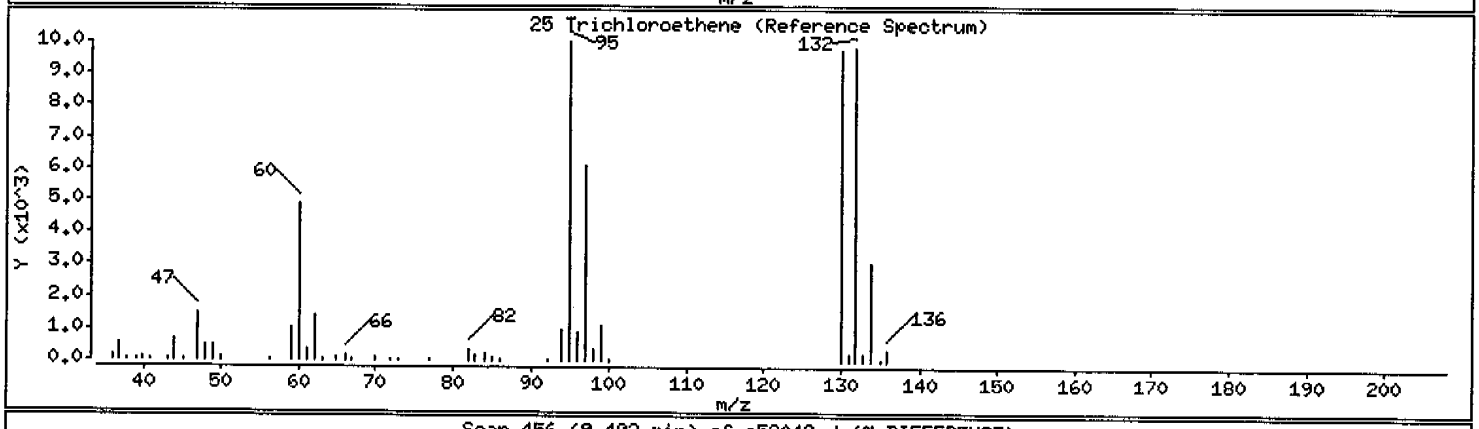
Column diameter: 0.53

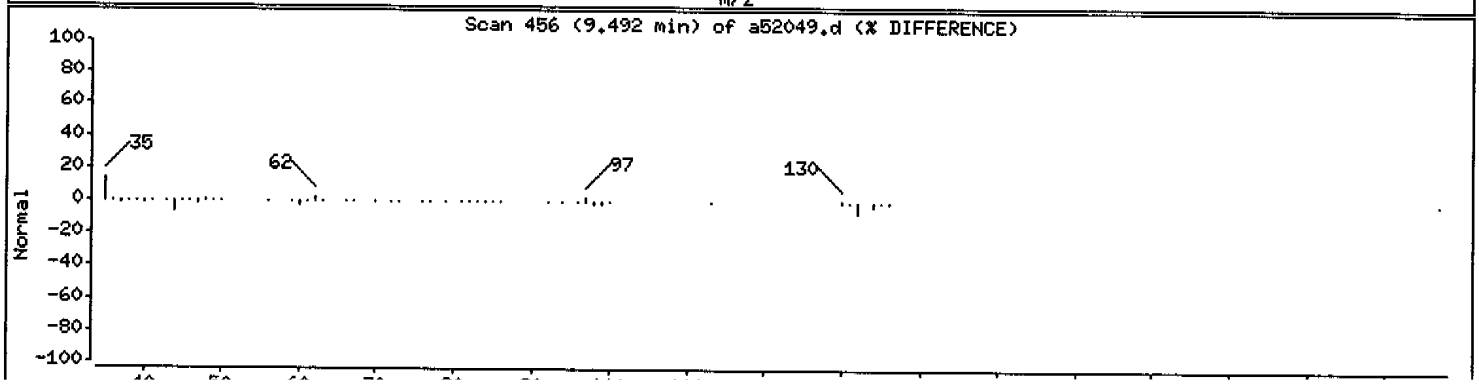
25 Trichloroethene

Concentration: 17 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d

Date : 23-AUG-2005 19:16

Client ID: MW4A

Instrument: VOAMS1.i

Sample Info: 662404

Purge Volume: 5.0

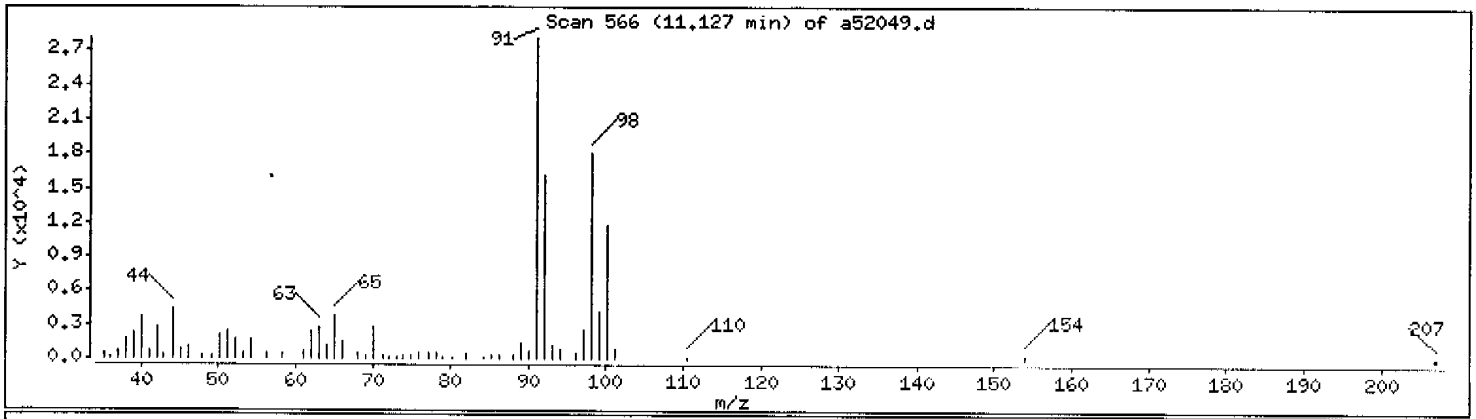
Operator: VOAMS 1

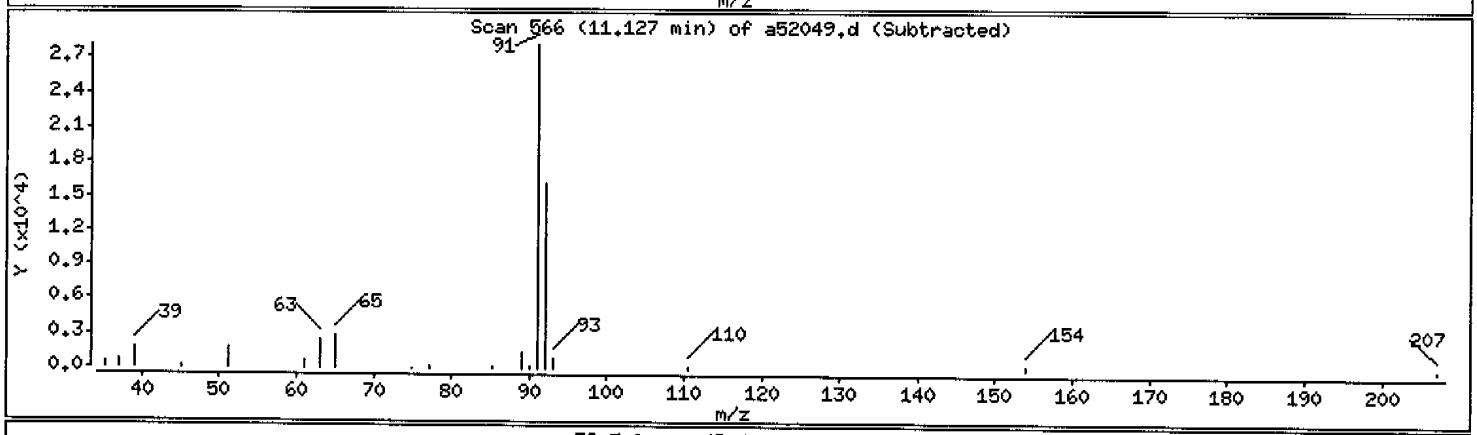
Column phase: DB624

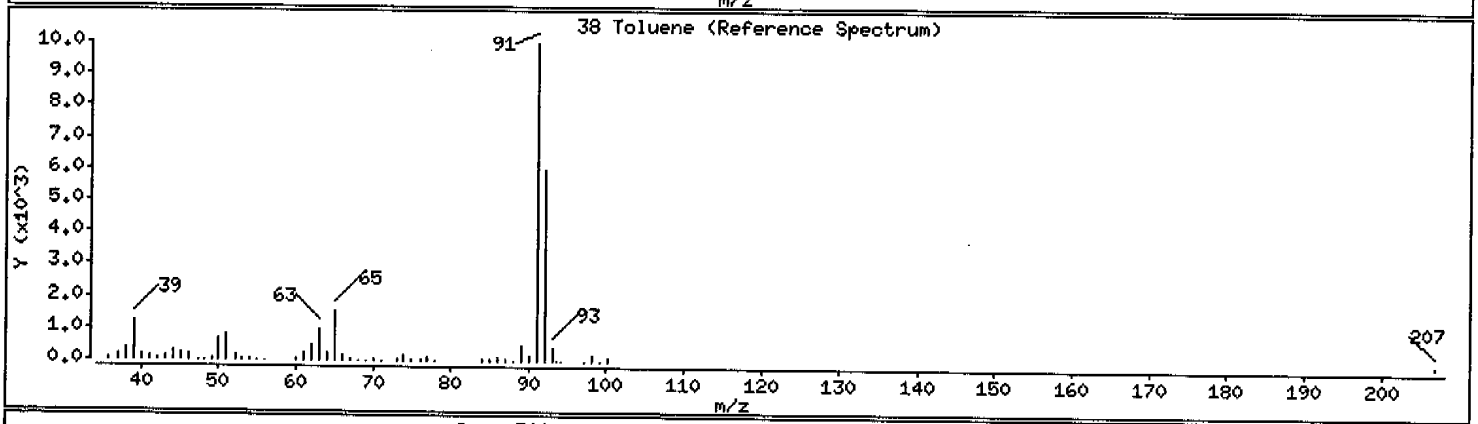
Column diameter: 0.53

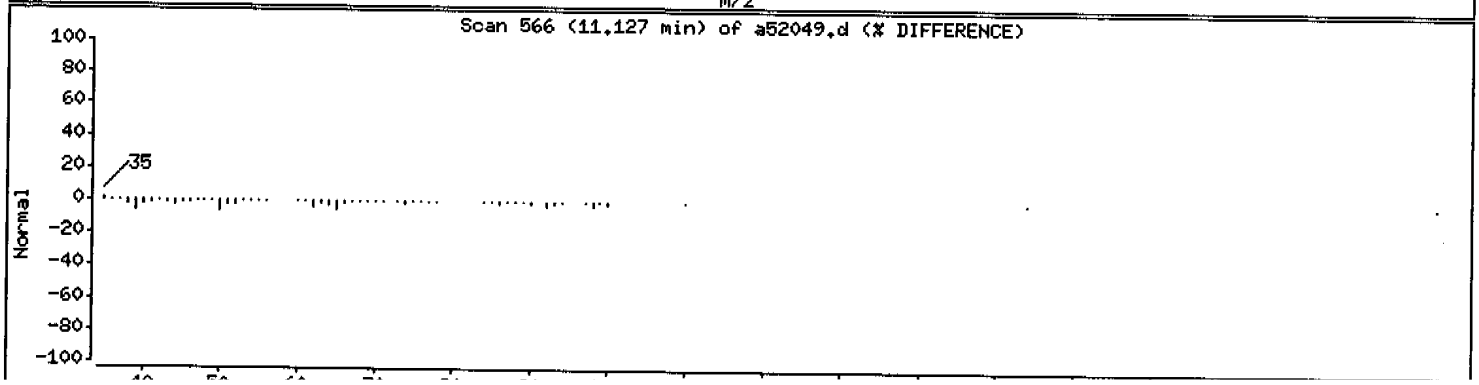
38 Toluene

Concentration: 2.8 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52049.d

Date : 23-AUG-2005 19:16

Client ID: MW4A

Instrument: VOAMS1.i

Sample Info: 662404

Purge Volume: 5.0

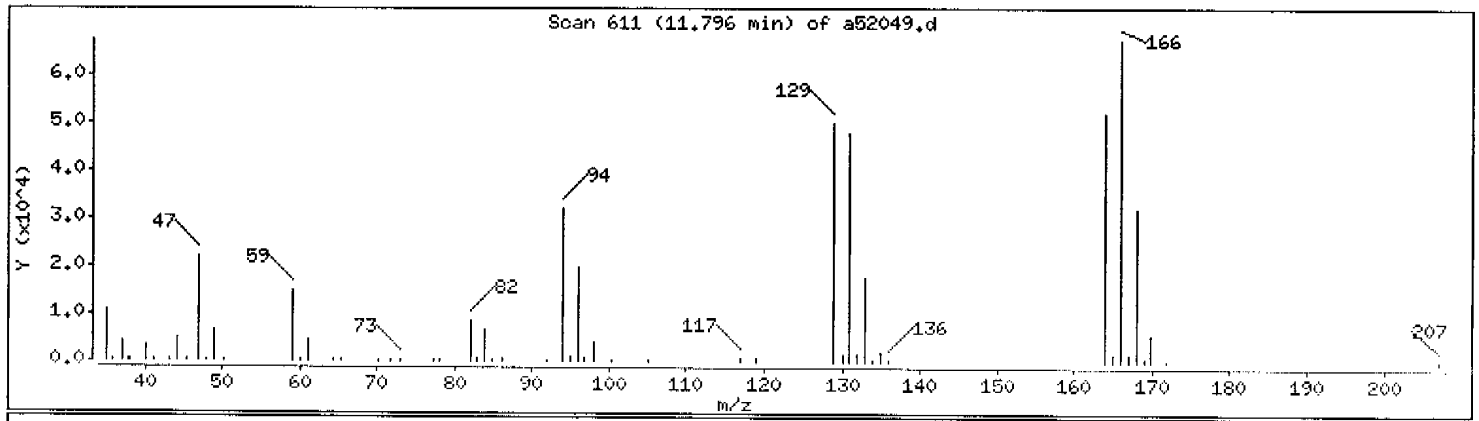
Operator: VOAMS 1

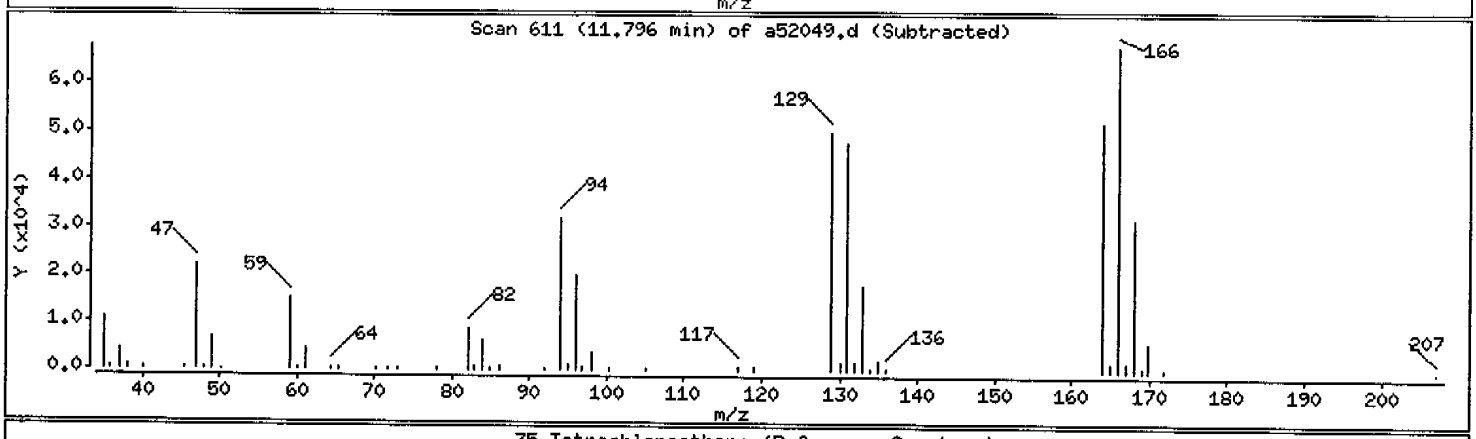
Column phase: DB624

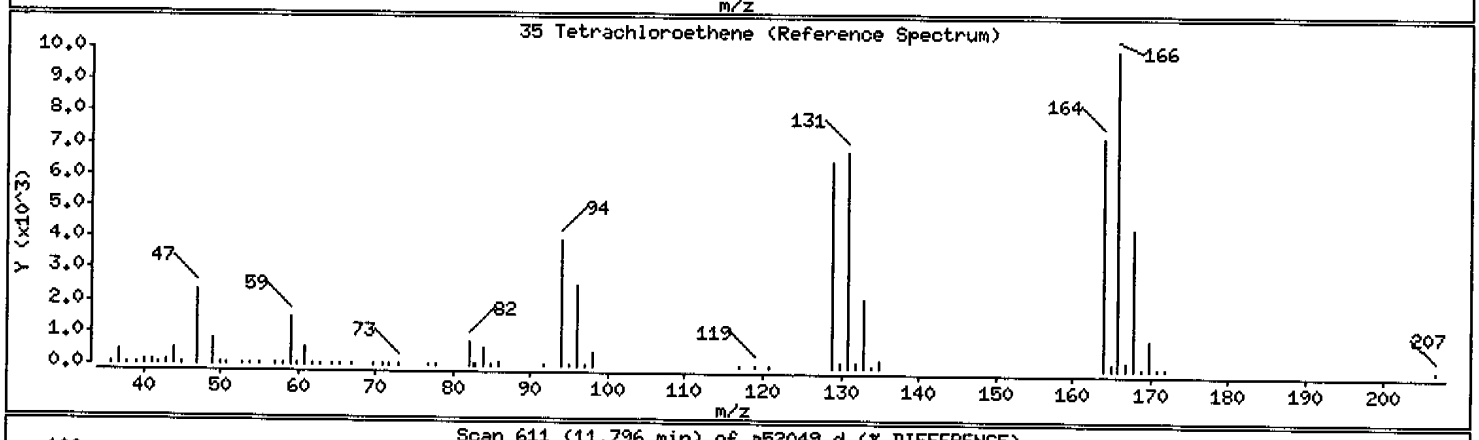
Column diameter: 0.53

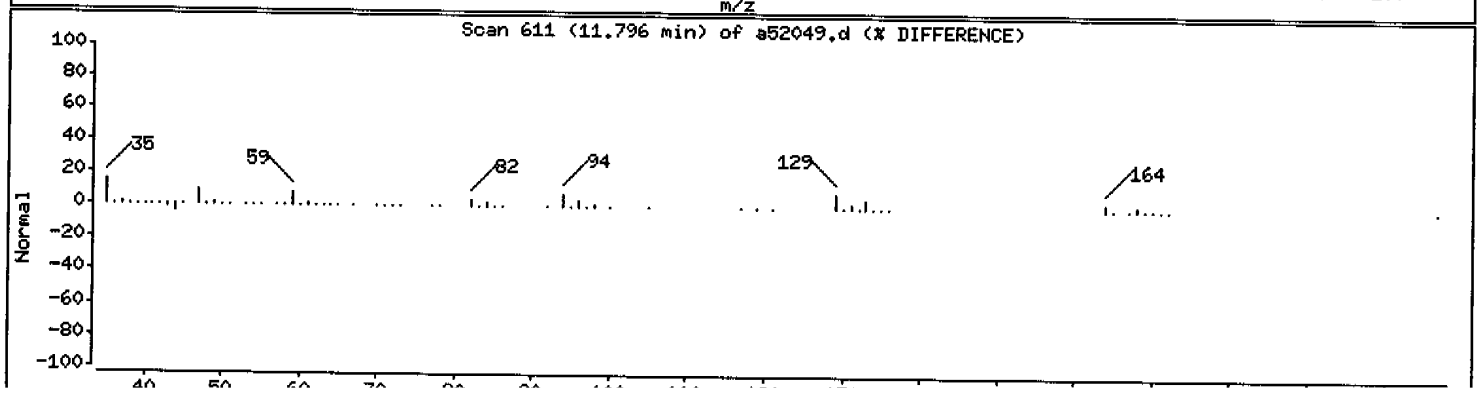
35 Tetrachloroethene

Concentration: 14 ug/L









Client ID: **MW4B**
Site: Phillipsburg

Lab Sample No: **662405**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52050.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	48	0.3
Chloroethane	ND	0.2
Methylene Chloride	ND	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	0.6	0.4
1,1-Dichloroethane	1.3	0.3
trans-1,2-Dichloroethene	0.8	0.4
cis-1,2-Dichloroethene	76	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	0.6	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	19	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	12	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	1.3	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **MW4B**
Site: Phillipsburg

Lab Sample No: **662405**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52050.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
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23.			
24.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d
Report Date: 24-Aug-2005 08:57

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

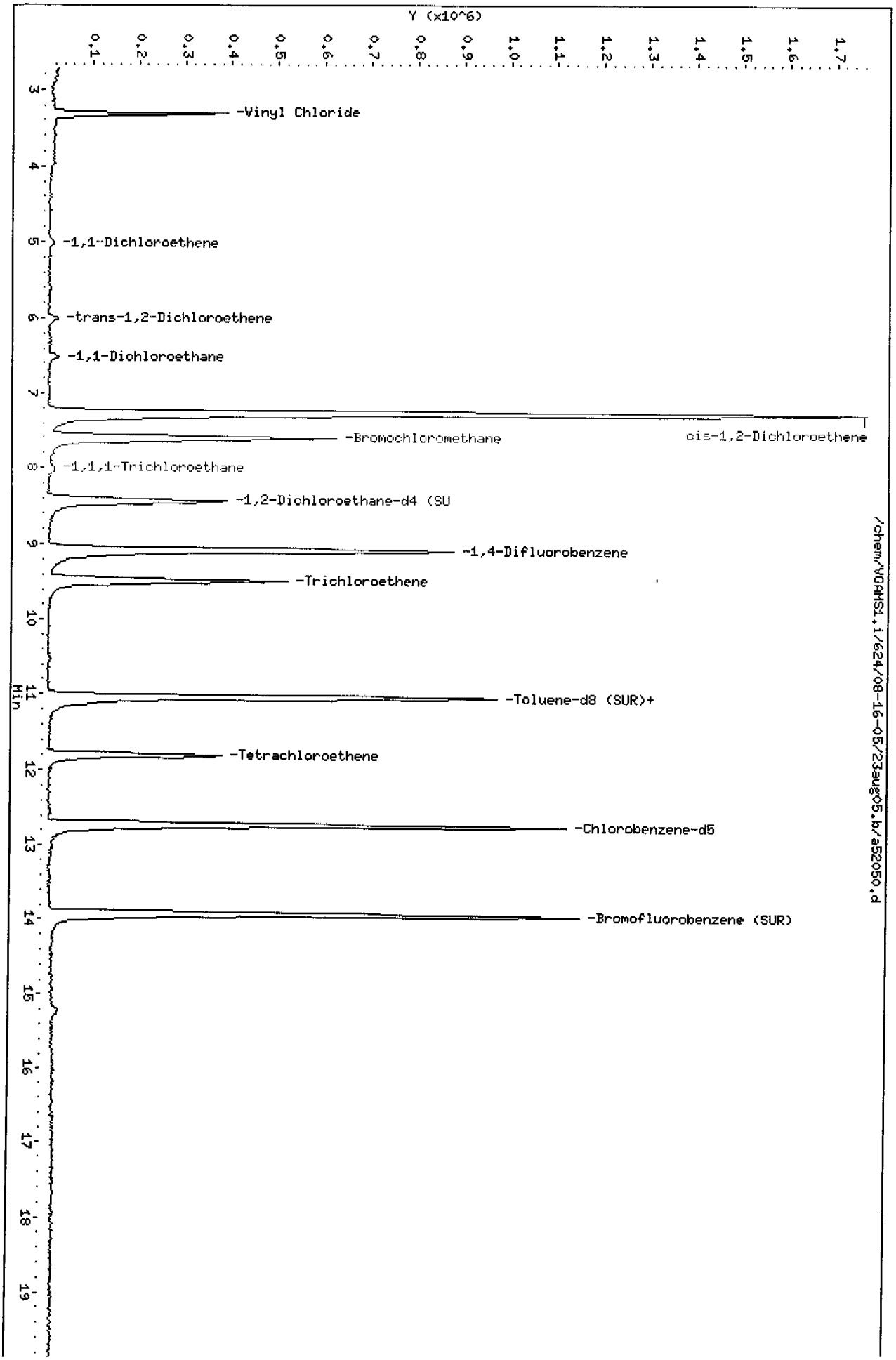
Data file : /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d
Lab Smp Id: 662405 Client Smp ID: MW4B
Inj Date : 23-AUG-2005 19:44
Operator : VOAMS 1 Inst ID: VOAMS1.i
Smp Info : 662405
Misc Info : E123;9305;;JT
Comment :
Method : /chem/VOAMS1.i/624/08-16-05/23aug05.b/624_05.m
Meth Date : 24-Aug-2005 08:42 moroneyc Quant Type: ISTD
Cal Date : 17-AUG-2005 03:17 Cal File: a51930.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
4 Vinyl Chloride	62	3.306	3.305	(0.435)	583227	48.5375	48
10 1,1-Dichloroethene	96	5.015	4.999	(0.660)	10631	0.64030	0.64
12 trans-1,2-Dichloroethene	96	6.011	5.965	(0.791)	16994	0.81589	0.82
11 1,1-Dichloroethane	63	6.531	6.500	(0.859)	49038	1.34695	1.3
13 cis-1,2-Dichloroethene	96	7.259	7.258	(0.955)	1653819	76.3256	76
* 2 Bromochloromethane	128	7.601	7.585	(1.000)	395346	30.0000	
20 1,1,1-Trichloroethane	97	8.017	8.002	(1.055)	20860	0.56606	0.57
$ 16 1,2-Dichloroethane-d4 (SUR)	104	8.448	8.418	(0.931)	92573	31.3909	31
* 19 1,4-Difluorobenzene	114	9.072	9.057	(1.000)	1686916	30.0000	
25 Trichloroethene	95	9.474	9.473	(1.044)	418493	18.7130	19
$ 37 Toluene-d8 (SUR)	98	11.034	11.018	(0.868)	1413768	29.9101	30
38 Toluene	91	11.123	11.108	(0.875)	62731	1.31416	1.3
35 Tetrachloroethene	166	11.807	11.791	(0.929)	233033	11.9713	12
* 32 Chlorobenzene-d5	117	12.713	12.713	(1.000)	1248895	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.917	13.946	(1.095)	645922	29.4469	29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Date : 23-AUG-2005 19:44
Client ID: NW4B
Sample Info: 662405
Purge Volume: 5.0
Column phase: DB624
Instrument: VOAHS1.i
Operator: VOAHS 1
Column diameter: 0.53
Y (x10^6)
-Vinyl Chloride
-1,1-Dichloroethene
-trans-1,2-Dichloroethene
-1,1-Dichloroethane
-Bromochloromethane
cis-1,2-Dichloroethene
-1,1,1-Trichloroethane
-1,2-Dichloroethane-d4 (SU
-1,4-Difluorobenzene
-Trichloroethene
-Toluene-d8 (SUR)+
-Tetrachloroethene
-Chlorobenzene-d5
-Bromofluorobenzene (SUR)
Min
/chem/VOAHS1.i/624/08-16-05/23aug05.b/a52050.d

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d

Date : 23-AUG-2005 19:44

Client ID: MW4B

Instrument: VOAMS1.i

Sample Info: 662405

Purge Volume: 5.0

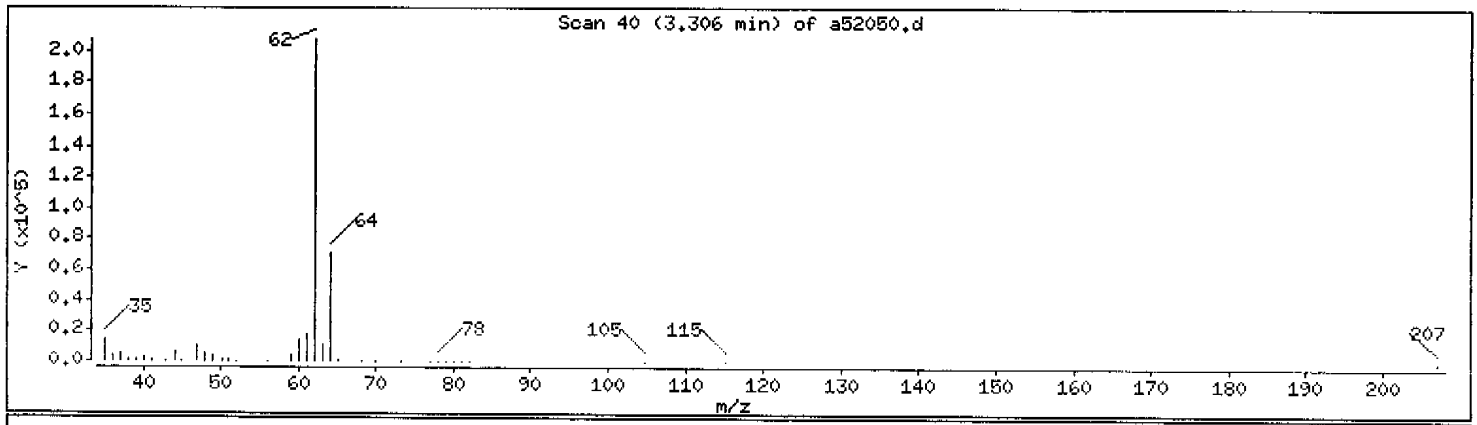
Operator: VOAMS 1

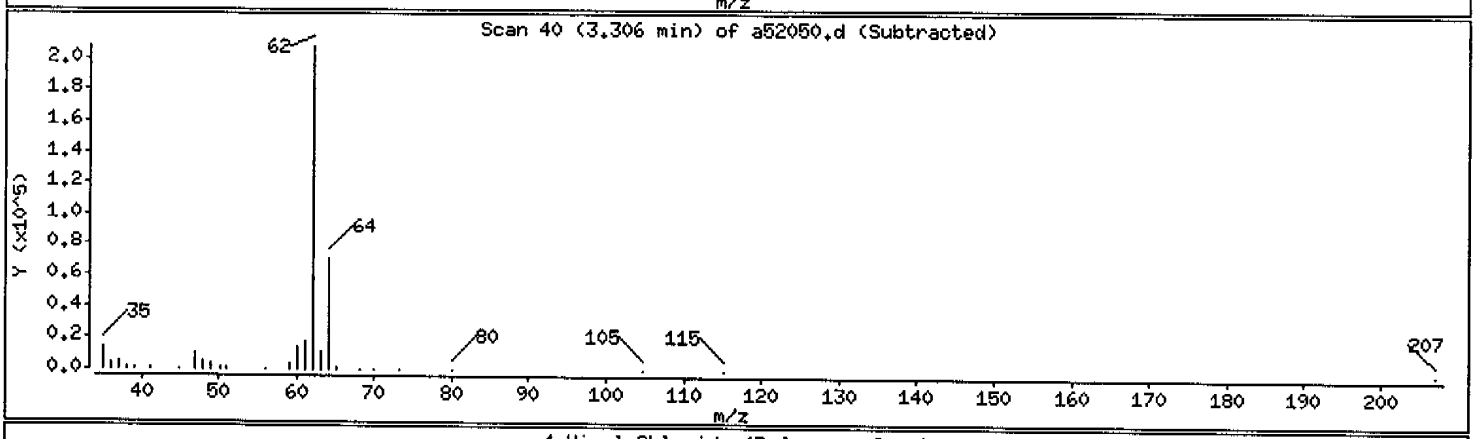
Column phase: DB624

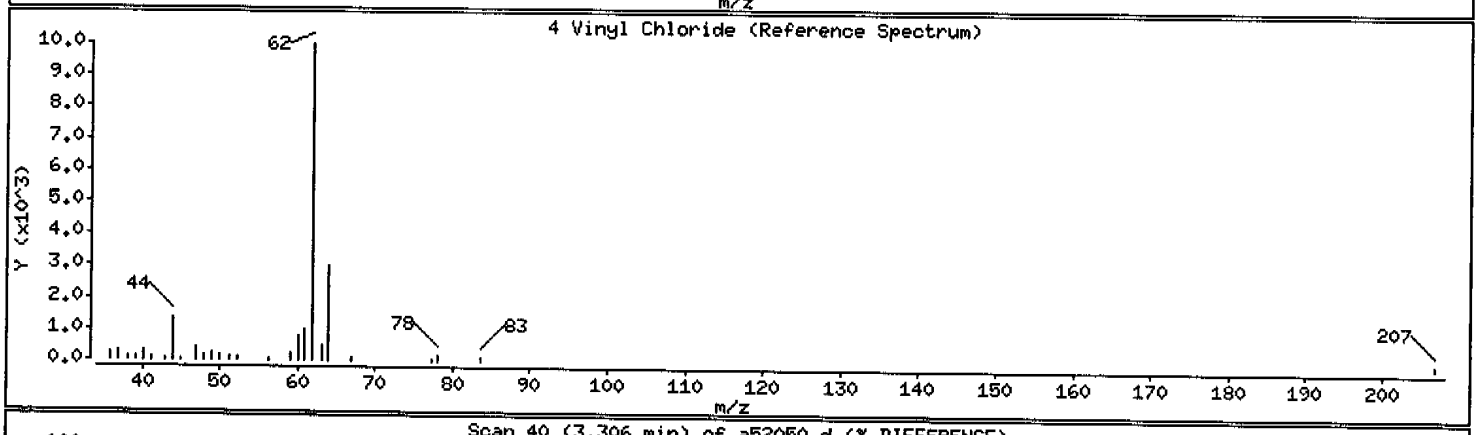
Column diameter: 0.53

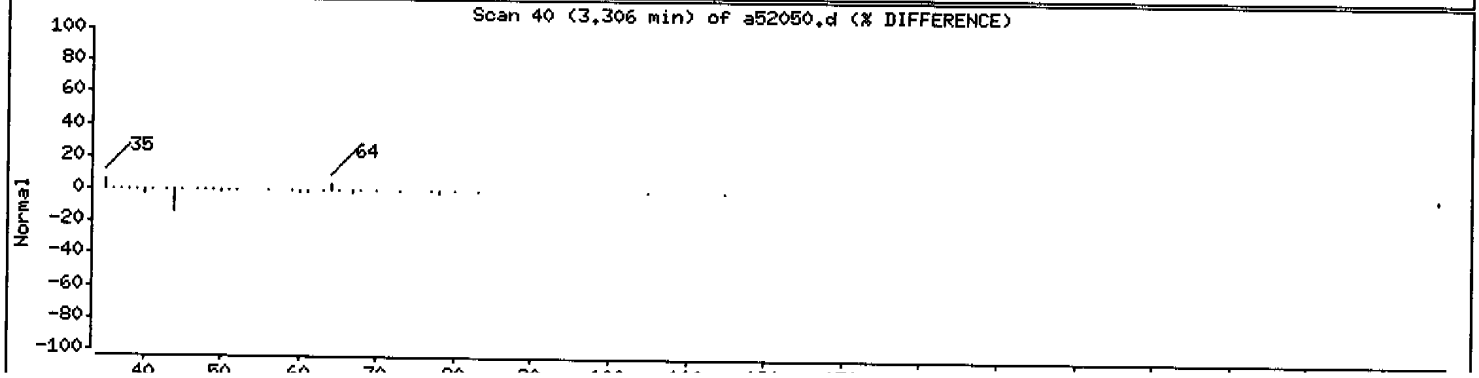
4 Vinyl Chloride

Concentration: 48 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d

Date : 23-AUG-2005 19:44

Client ID: MW4B

Instrument: VOAMS1.i

Sample Info: 662405

Purge Volume: 5.0

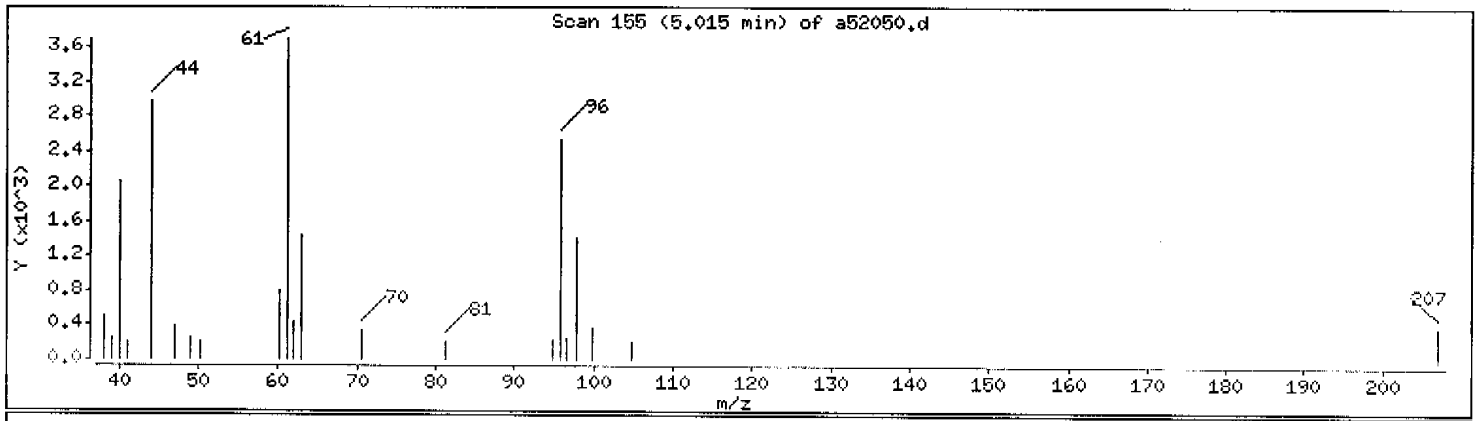
Operator: VOAMS 1

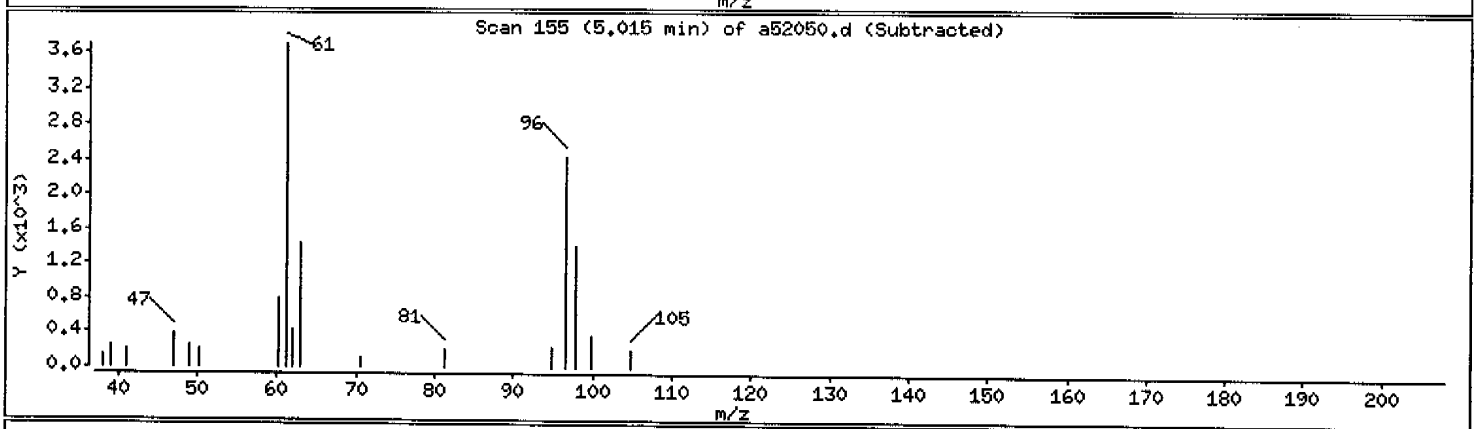
Column phase: DB624

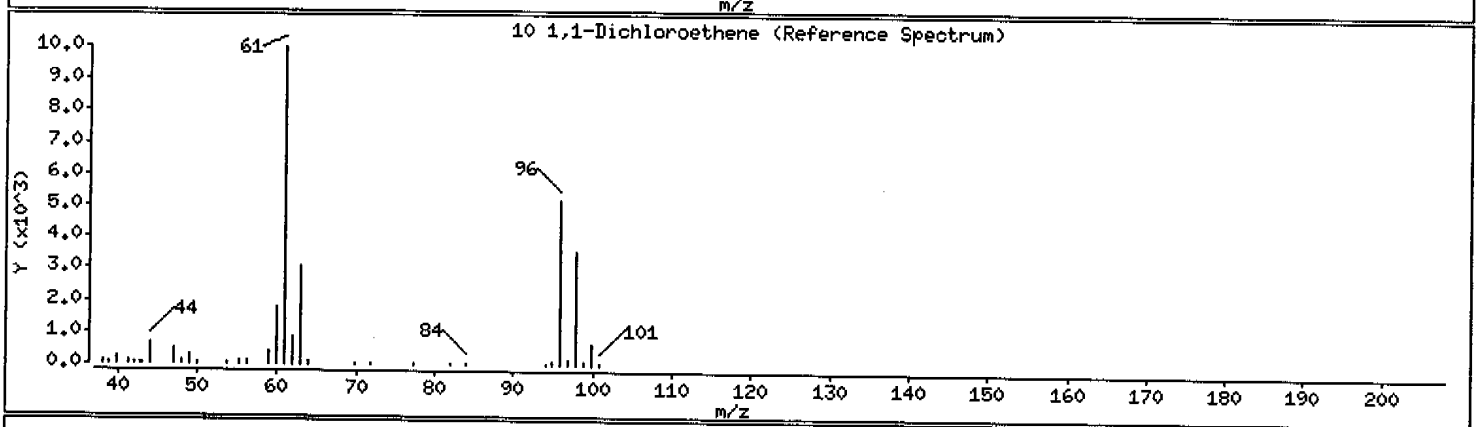
Column diameter: 0.53

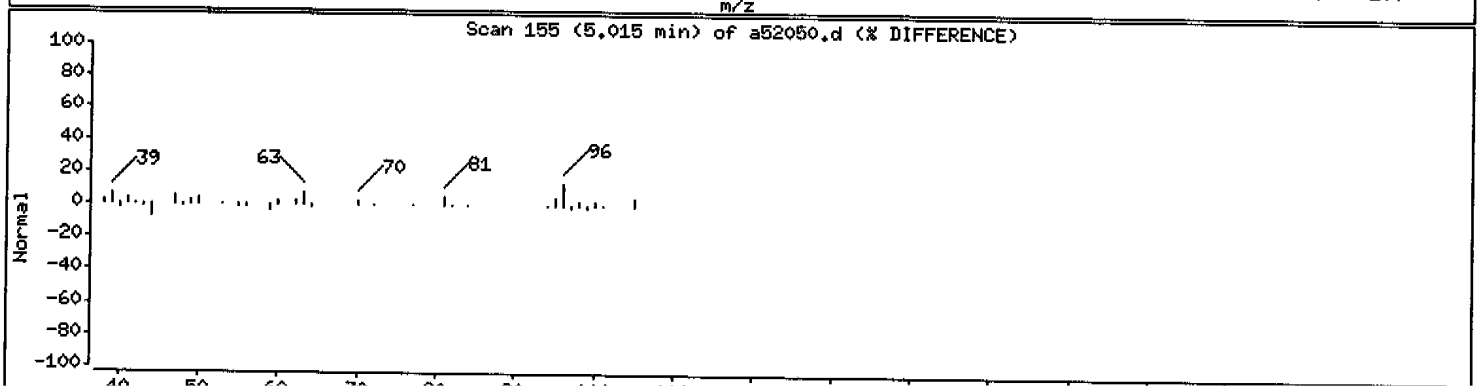
10 1,1-Dichloroethene

Concentration: 0.64 ug/L









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Date : 23-AUG-2005 19:44

Client ID: MW4B

Instrument: VOAMS1.i

Sample Info: 662405

Purge Volume: 5.0

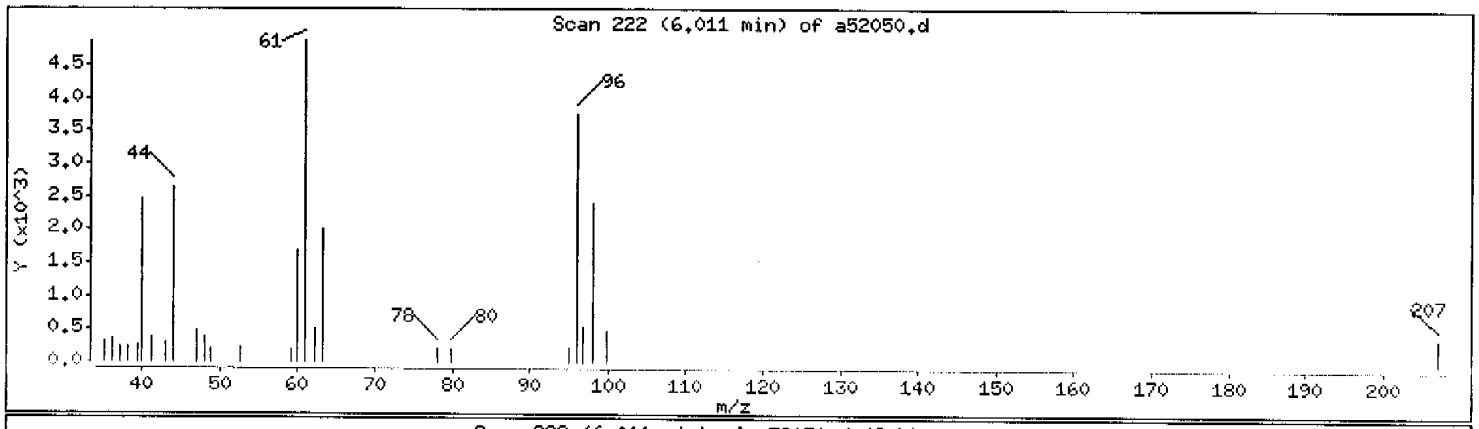
Operator: VOAMS 1

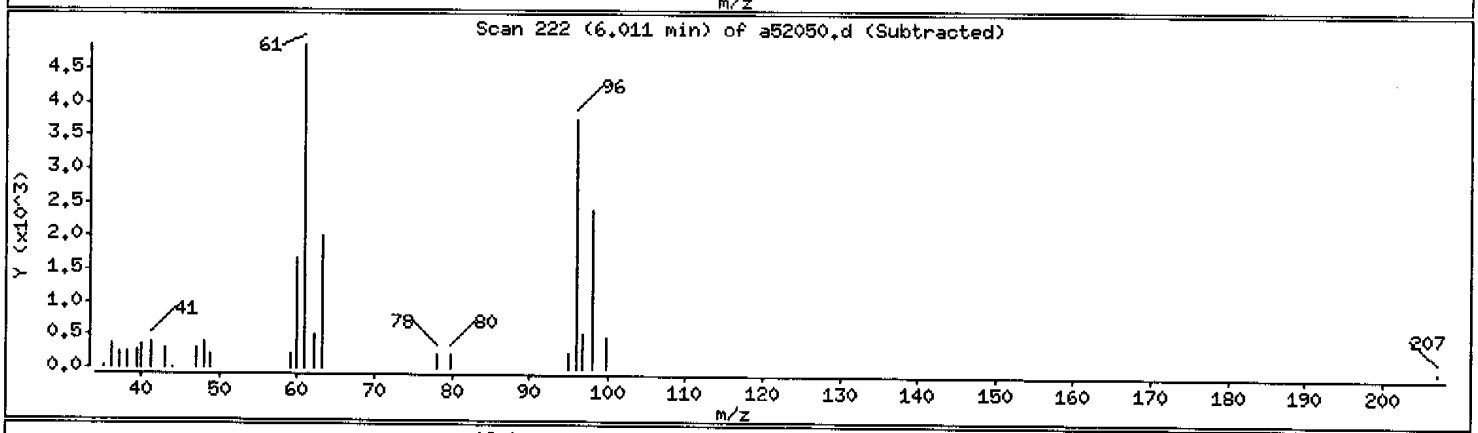
Column phase: DB624

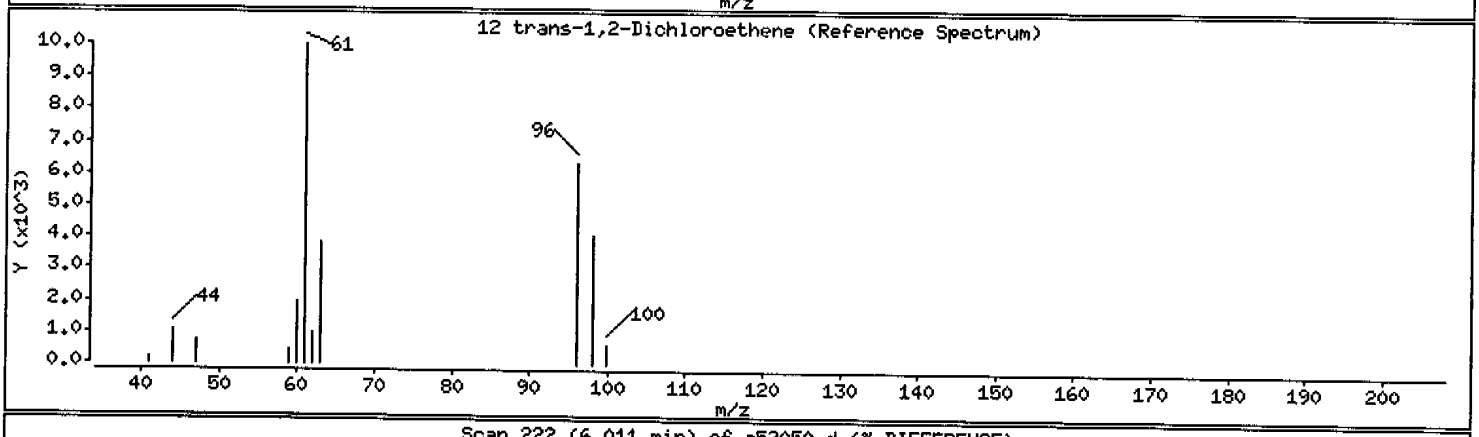
Column diameter: 0.53

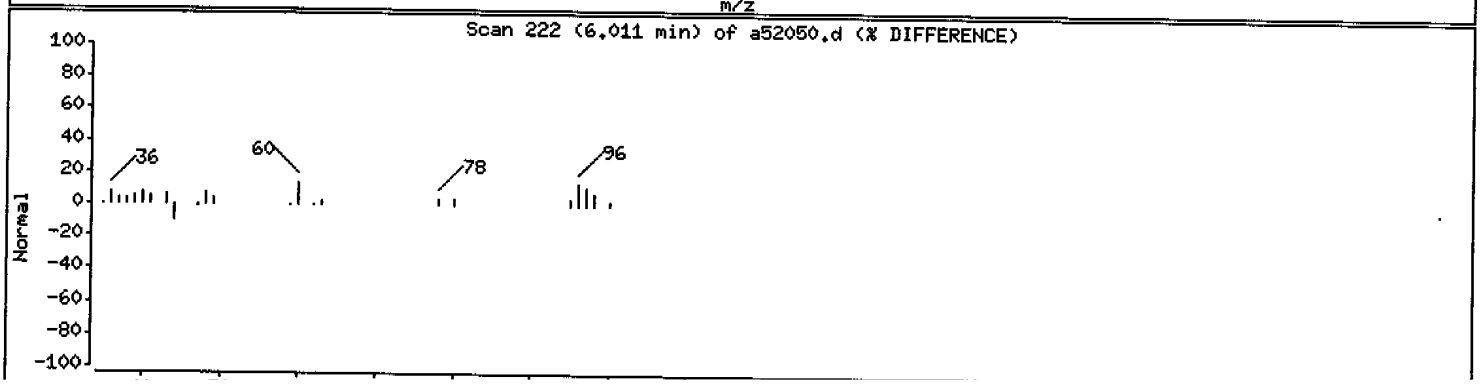
12 trans-1,2-Dichloroethene

Concentration: 0.82 ug/L









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Date : 23-AUG-2005 19:44

Client ID: MW4B

Instrument: VOAMS1.i

Sample Info: 662405

Purge Volume: 5.0

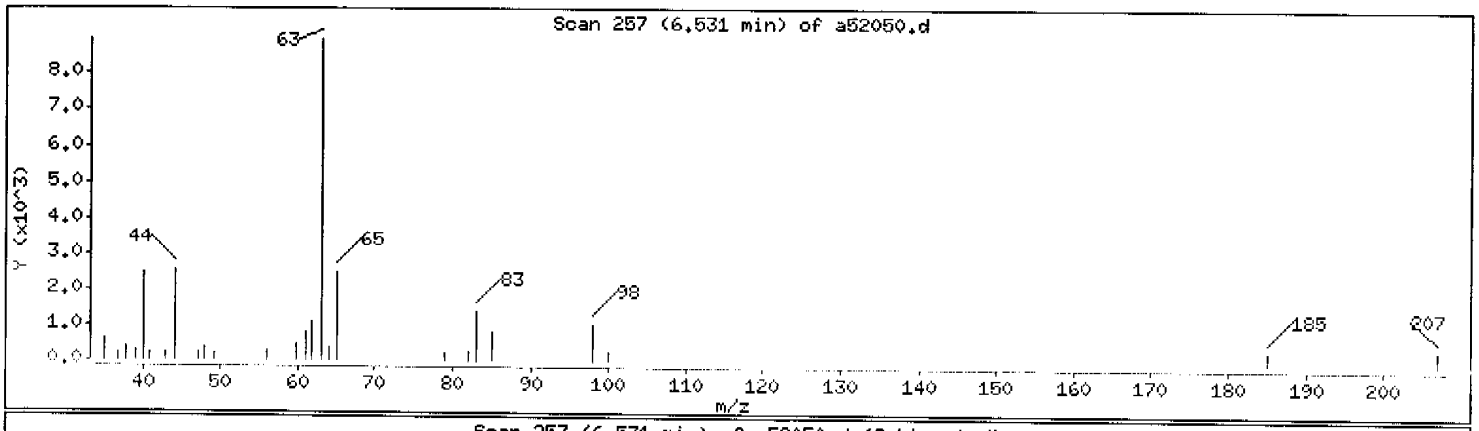
Operator: VOAMS 1

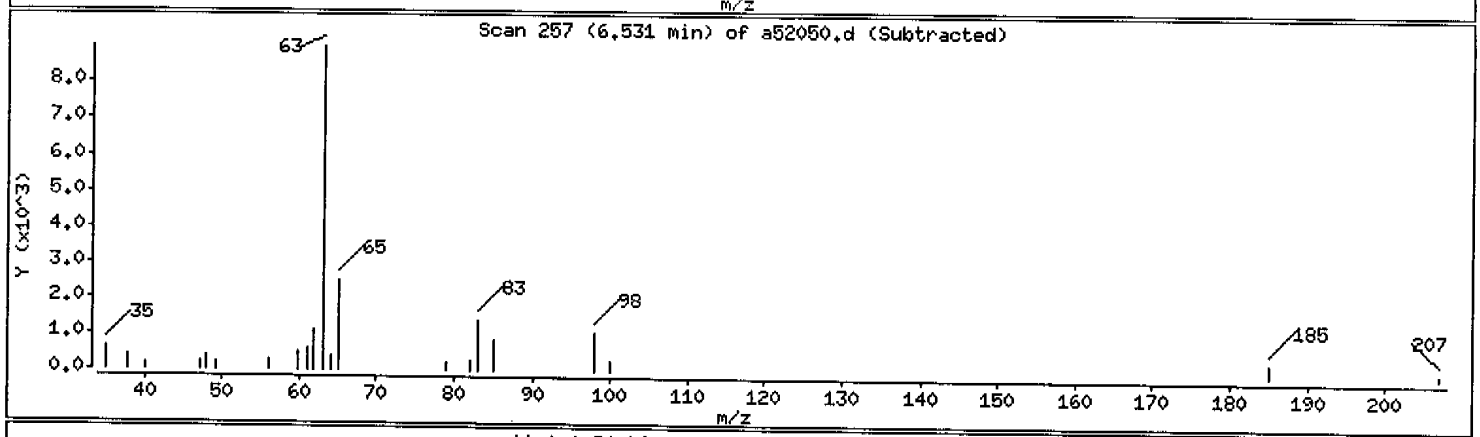
Column phase: DB624

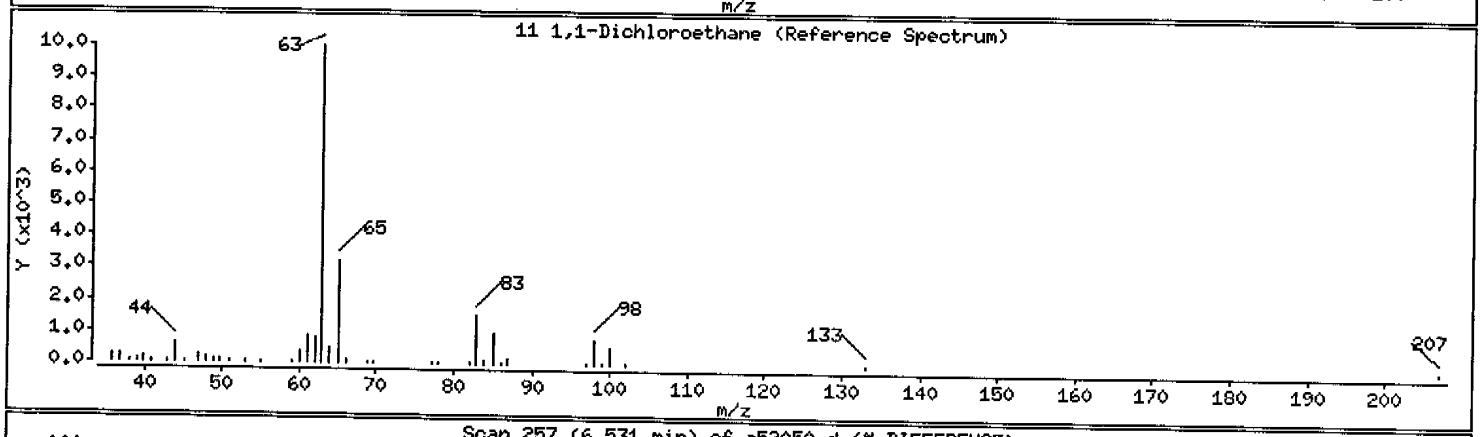
Column diameter: 0.53

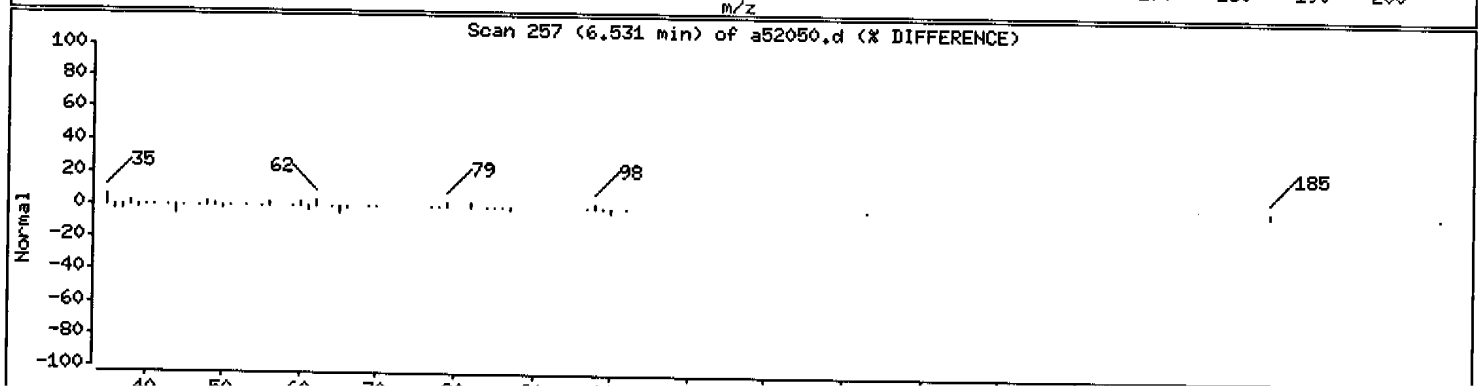
11 1,1-Dichloroethane

Concentration: 1.3 ug/L









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Date : 23-AUG-2005 19:44

Client ID: MW4B

Instrument: VOAMS1.i

Sample Info: 662405

Purge Volume: 5.0

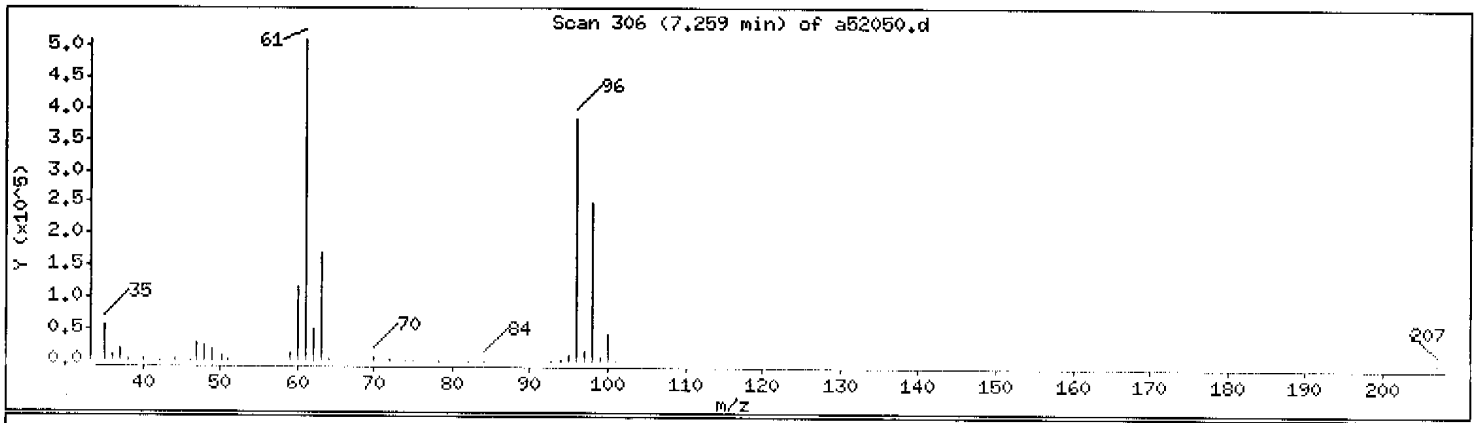
Operator: VOAMS 1

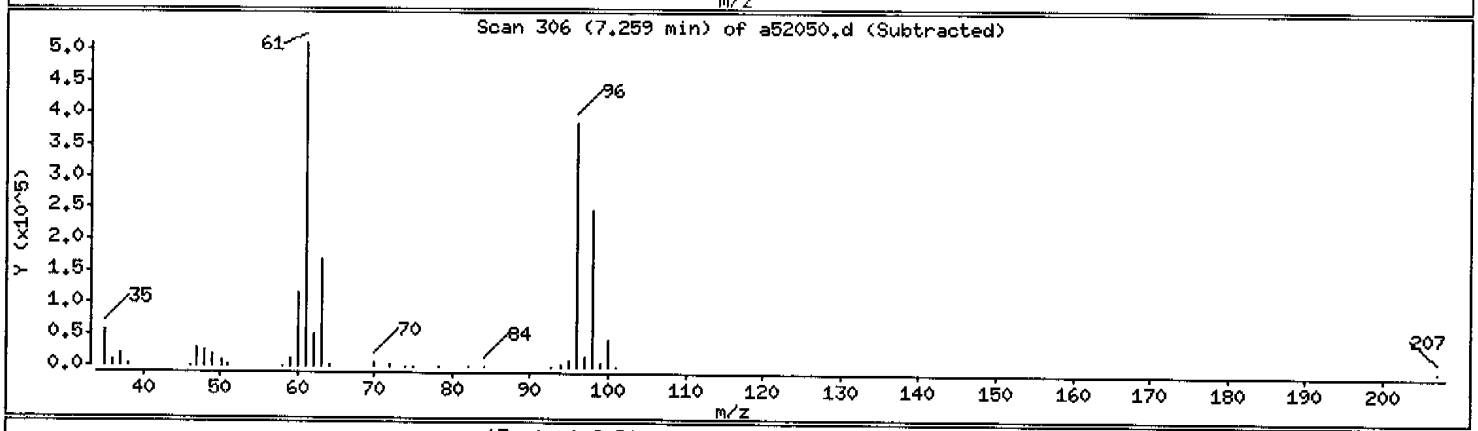
Column phase: DB624

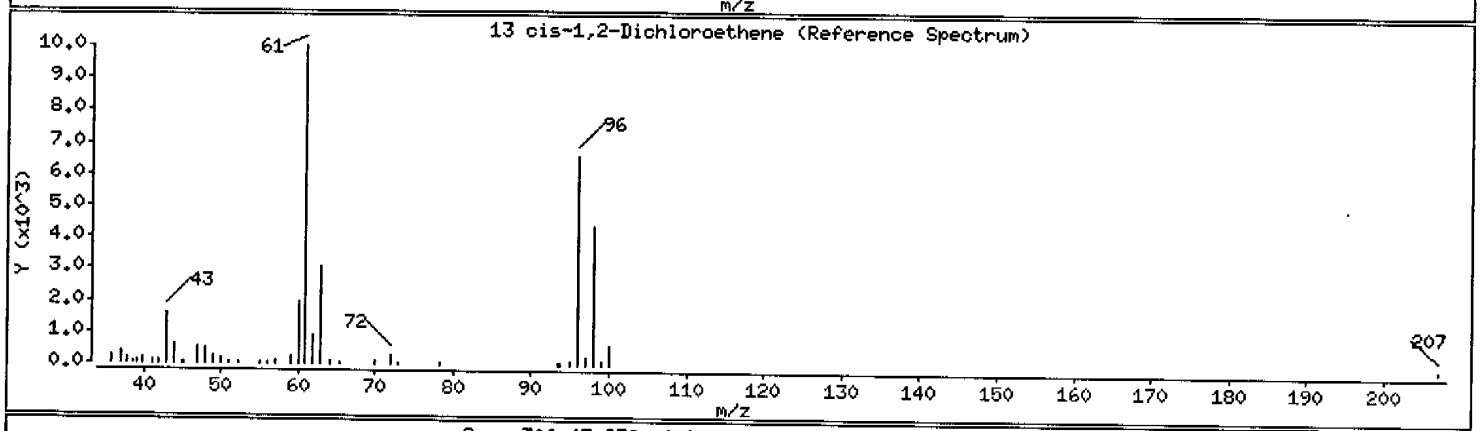
Column diameter: 0.53

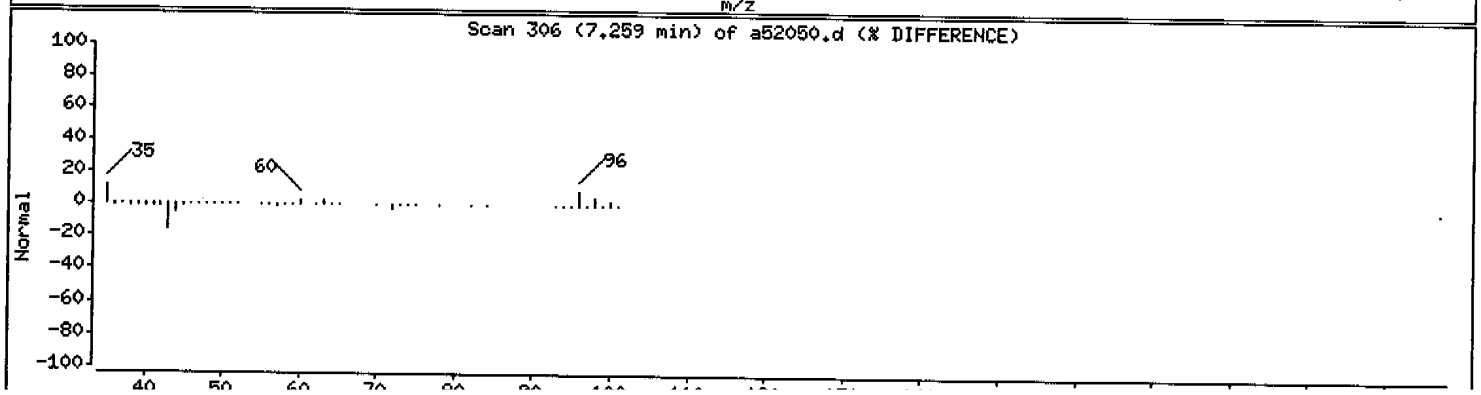
13 cis-1,2-Dichloroethene

Concentration: 76 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d

Date : 23-AUG-2005 19:44

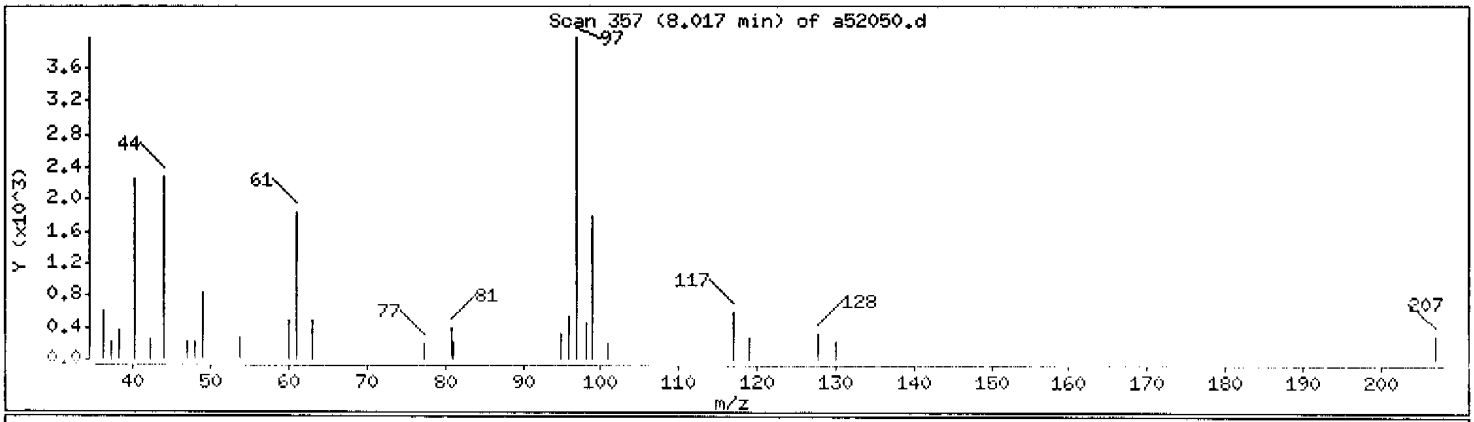
Client ID: MW4B | Instrument: VOAMS1.i

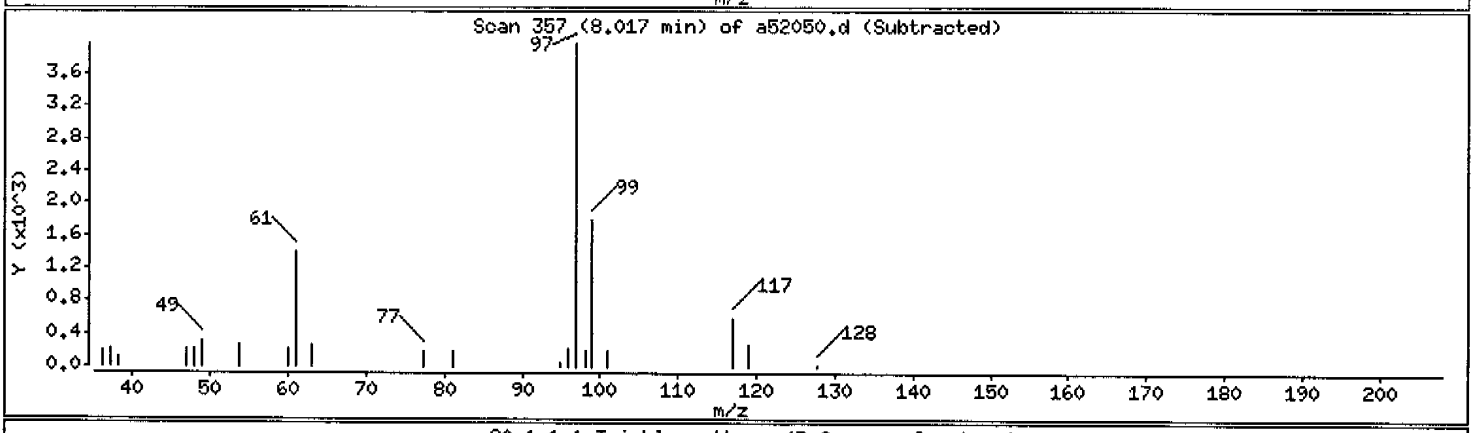
Sample Info: 662405

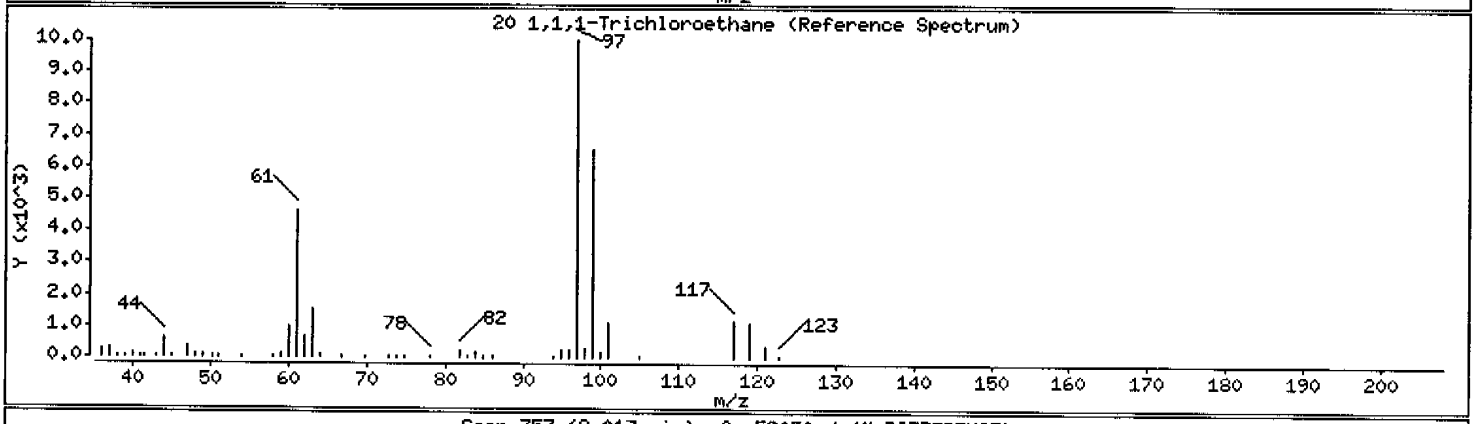
Purge Volume: 5.0 | Operator: VOAMS 1

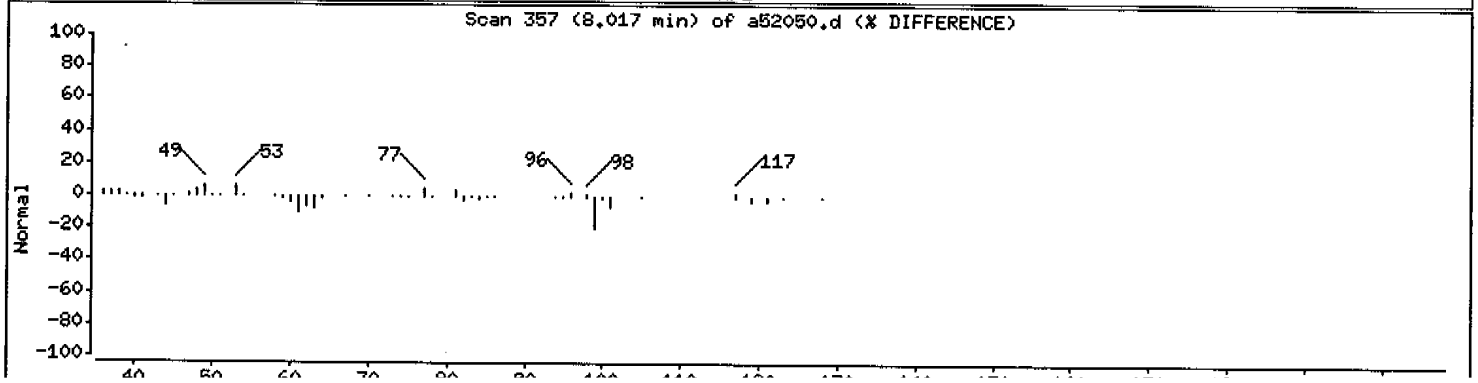
Column phase: DB624 | Column diameter: 0.53

20 1,1,1-Trichloroethane | Concentration: 0.57 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d

Date : 23-AUG-2005 19:44

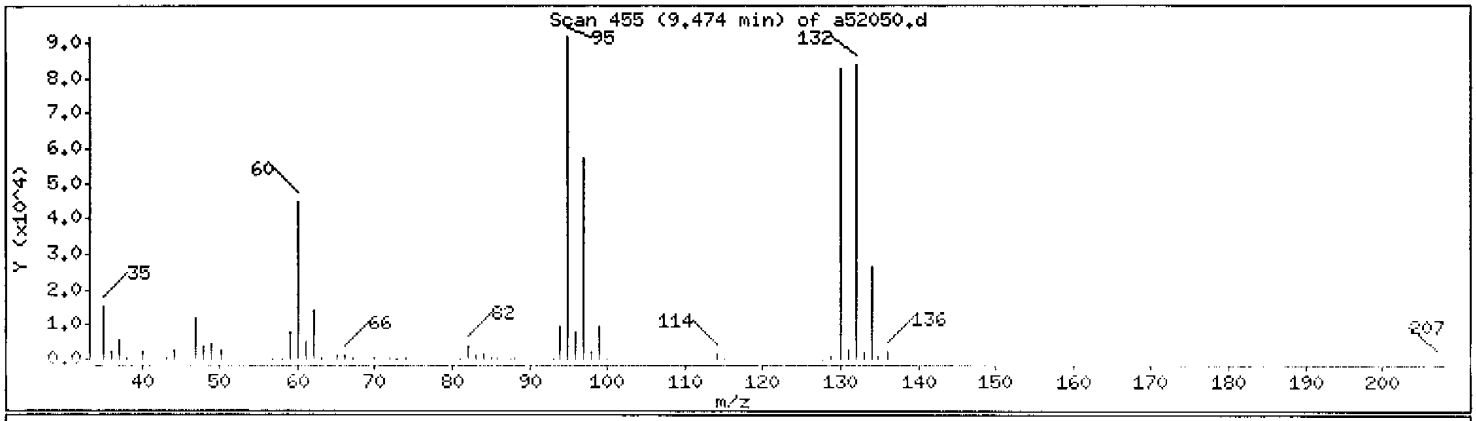
Client ID: MW4B | Instrument: VOAMS1.i

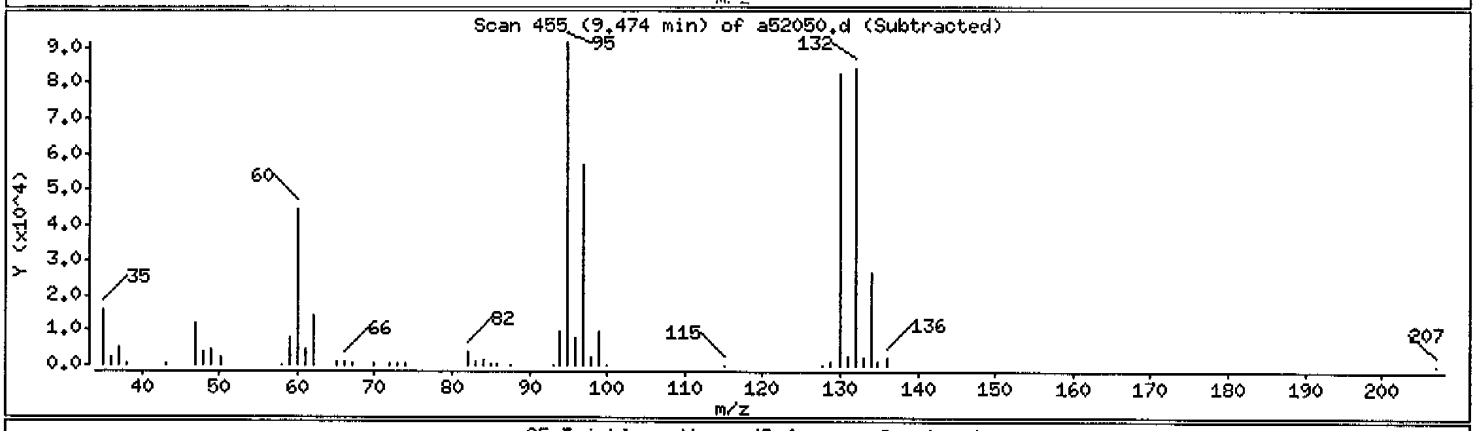
Sample Info: 662405

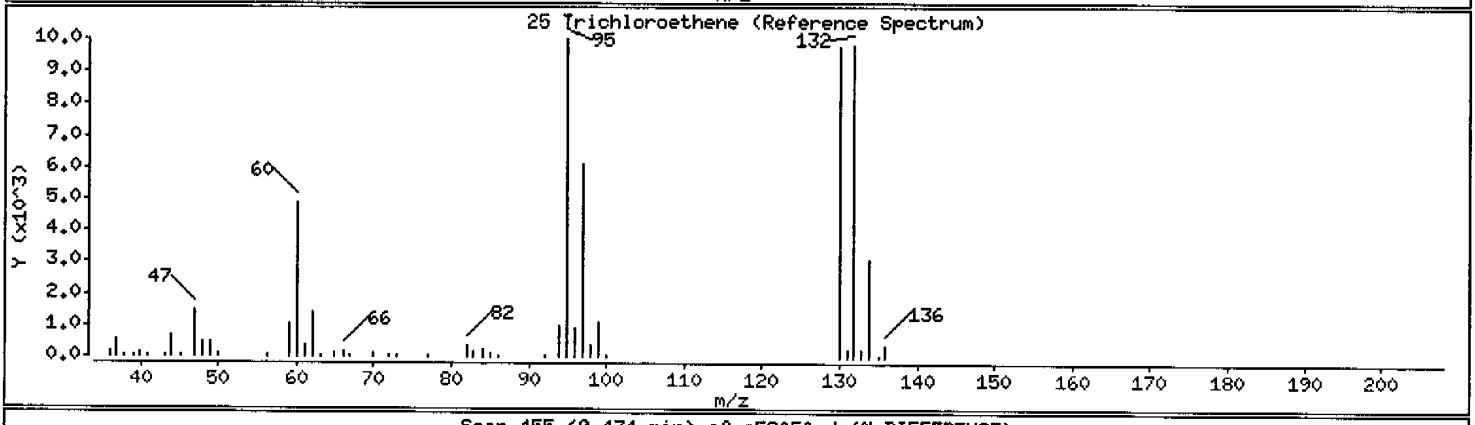
Purge Volume: 5.0 | Operator: VOAMS 1

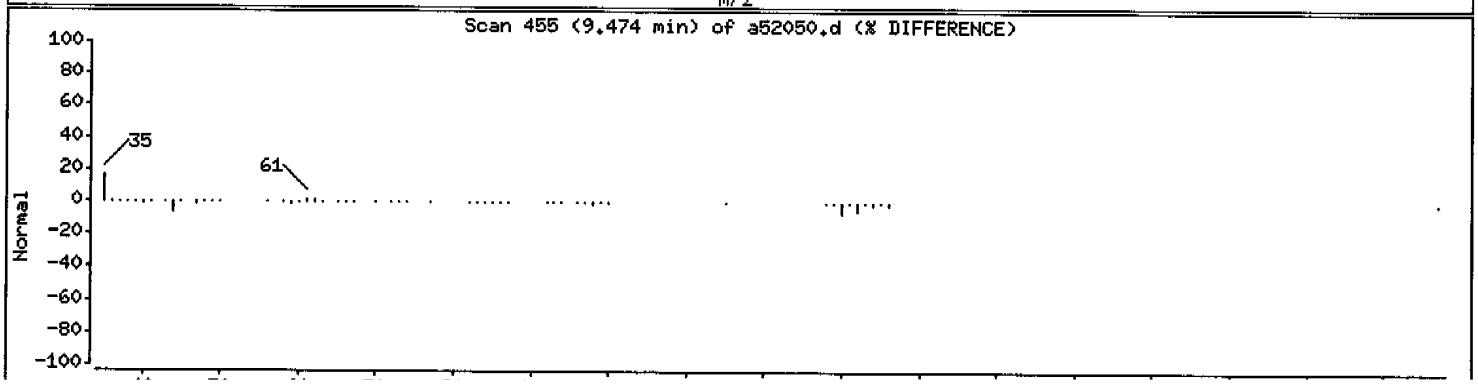
Column phase: DB624 | Column diameter: 0.53

25 Trichloroethene | Concentration: 19 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d

Date : 23-AUG-2005 19:44

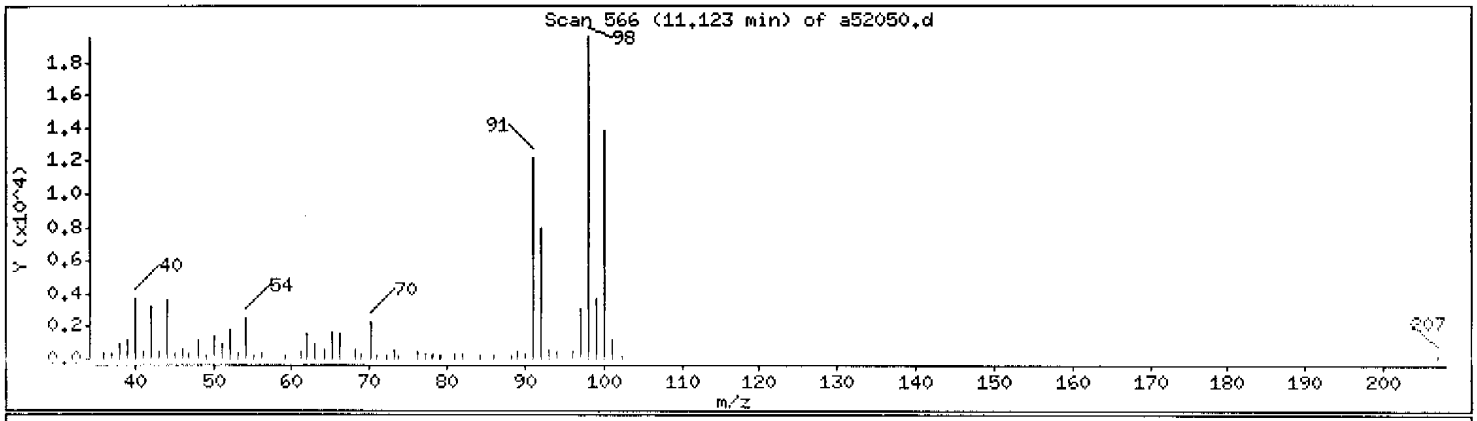
Client ID: MW4B | Instrument: VOAMS1.i

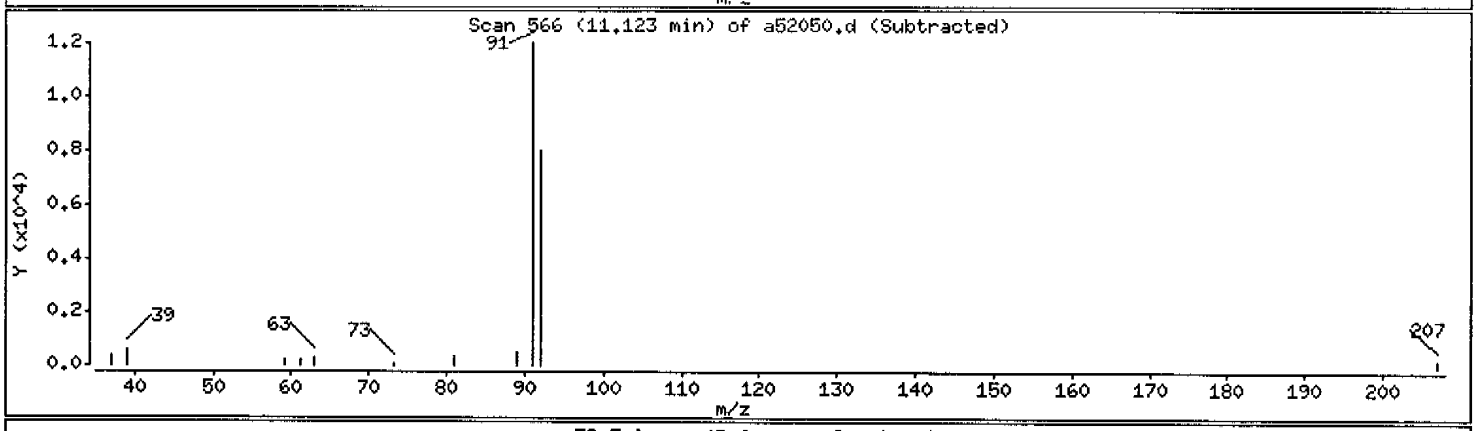
Sample Info: 662405

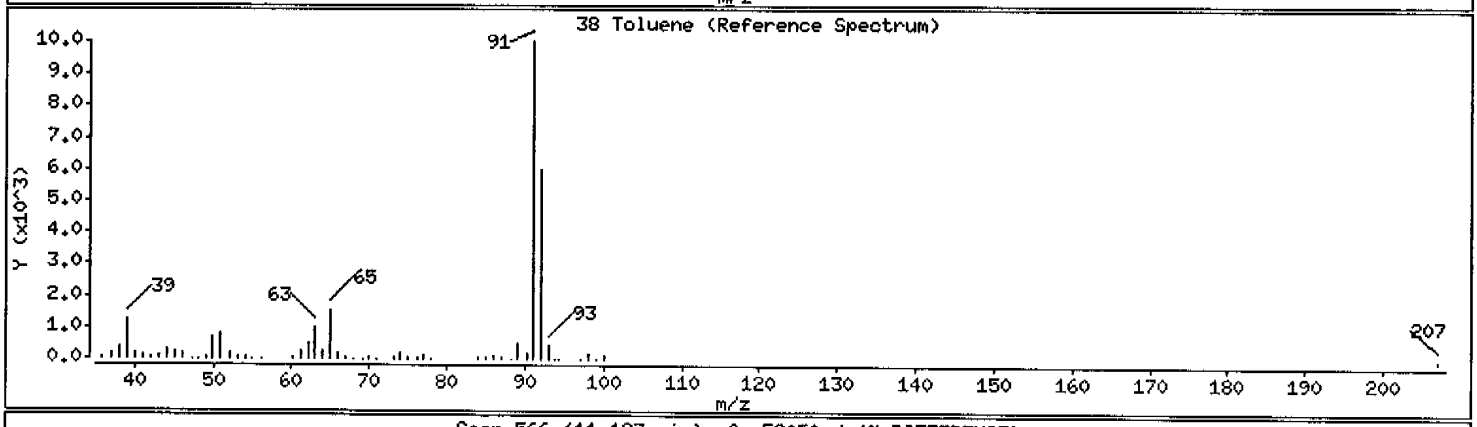
Purge Volume: 5.0 | Operator: VOAMS 1

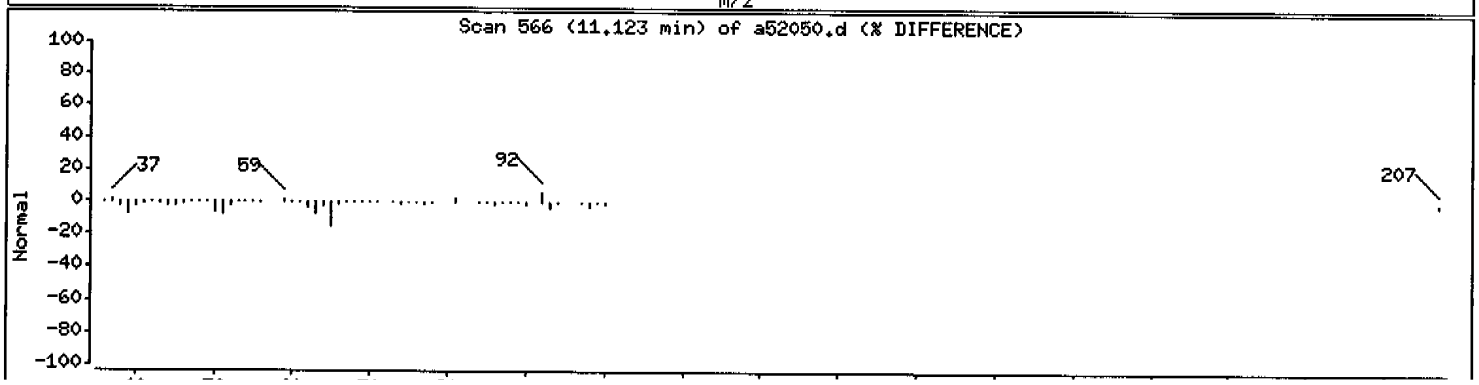
Column phase: DB624 | Column diameter: 0.53

38 Toluene | Concentration: 1.3 ug/L









Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52050.d

Date : 23-AUG-2005 19:44

Client ID: MW4B

Instrument: VOAMS1.i

Sample Info: 662405

Purge Volume: 5.0

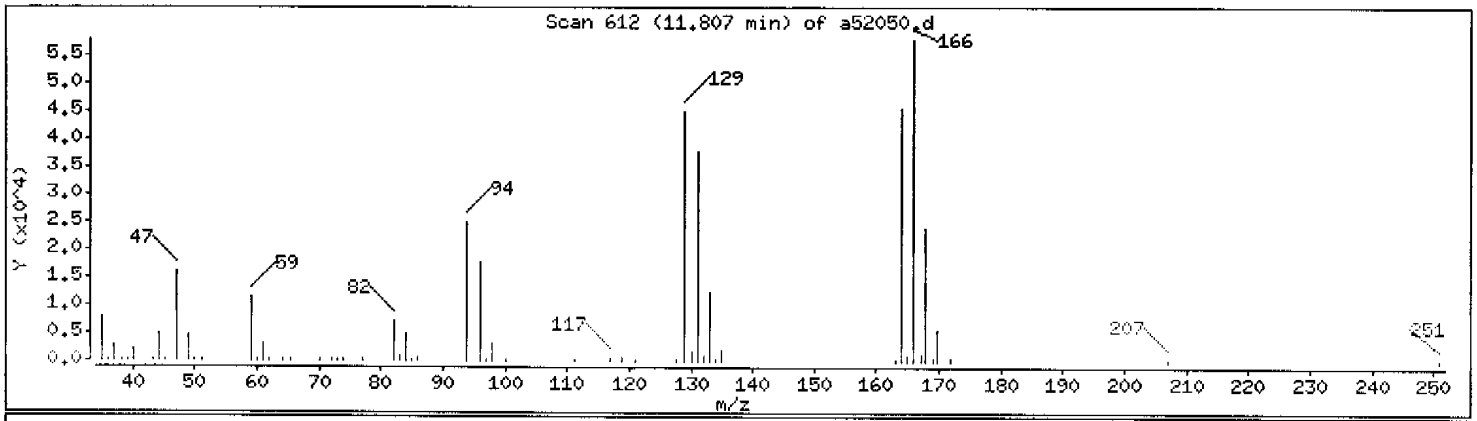
Operator: VOAMS 1

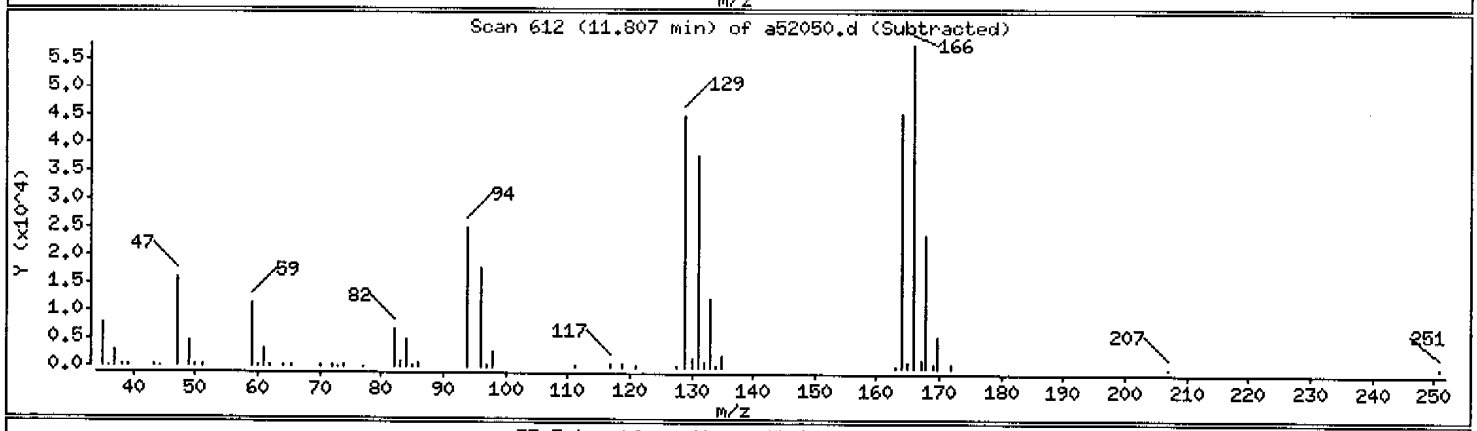
Column phase: DB624

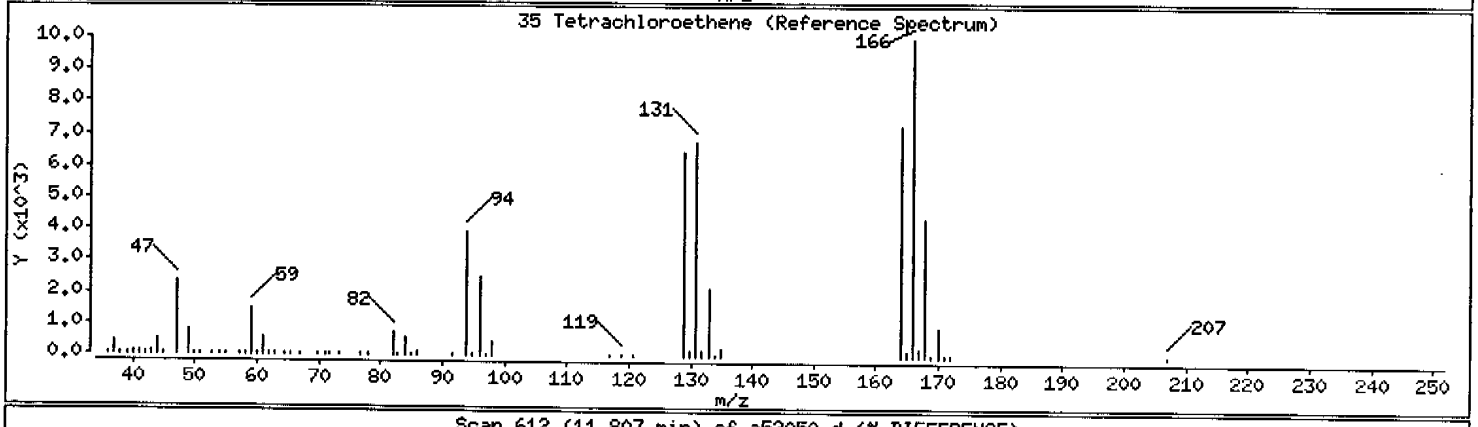
Column diameter: 0.53

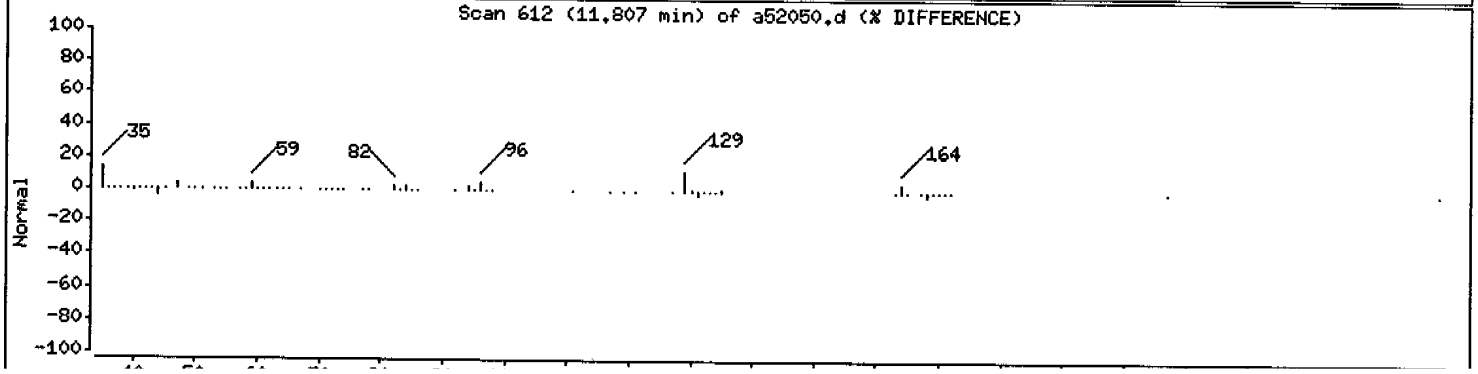
35 Tetrachloroethene

Concentration: 12 ug/L









Client ID: **T081805**
Site: Phillipsburg

Lab Sample No: **662406**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52051.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.3
Chloroethane	ND	0.2
Methylene Chloride	1.3	0.5
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5
Xylene (Total)	ND	0.4

Client ID: **T081805**
Site: Phillipsburg

Lab Sample No: **662406**
Lab Job No: E123

Date Sampled: 08/18/05
Date Received: 08/18/05
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52051.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52051.d
Report Date: 24-Aug-2005 13:22

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52051.d
Lab Smp Id: 662406 Client Smp ID: T081805
Inj Date : 23-AUG-2005 20:13
Operator : VOAMS 1 Inst ID: VOAMS1.i
Smp Info : 662406
Misc Info : E123;9305;;JT
Comment :
Method : /chem/VOAMS1.i/624/08-16-05/23aug05.b/624_05.m
Meth Date : 24-Aug-2005 08:42 moroneyc Quant Type: ISTD
Cal Date : 17-AUG-2005 03:17 Cal File: a51930.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

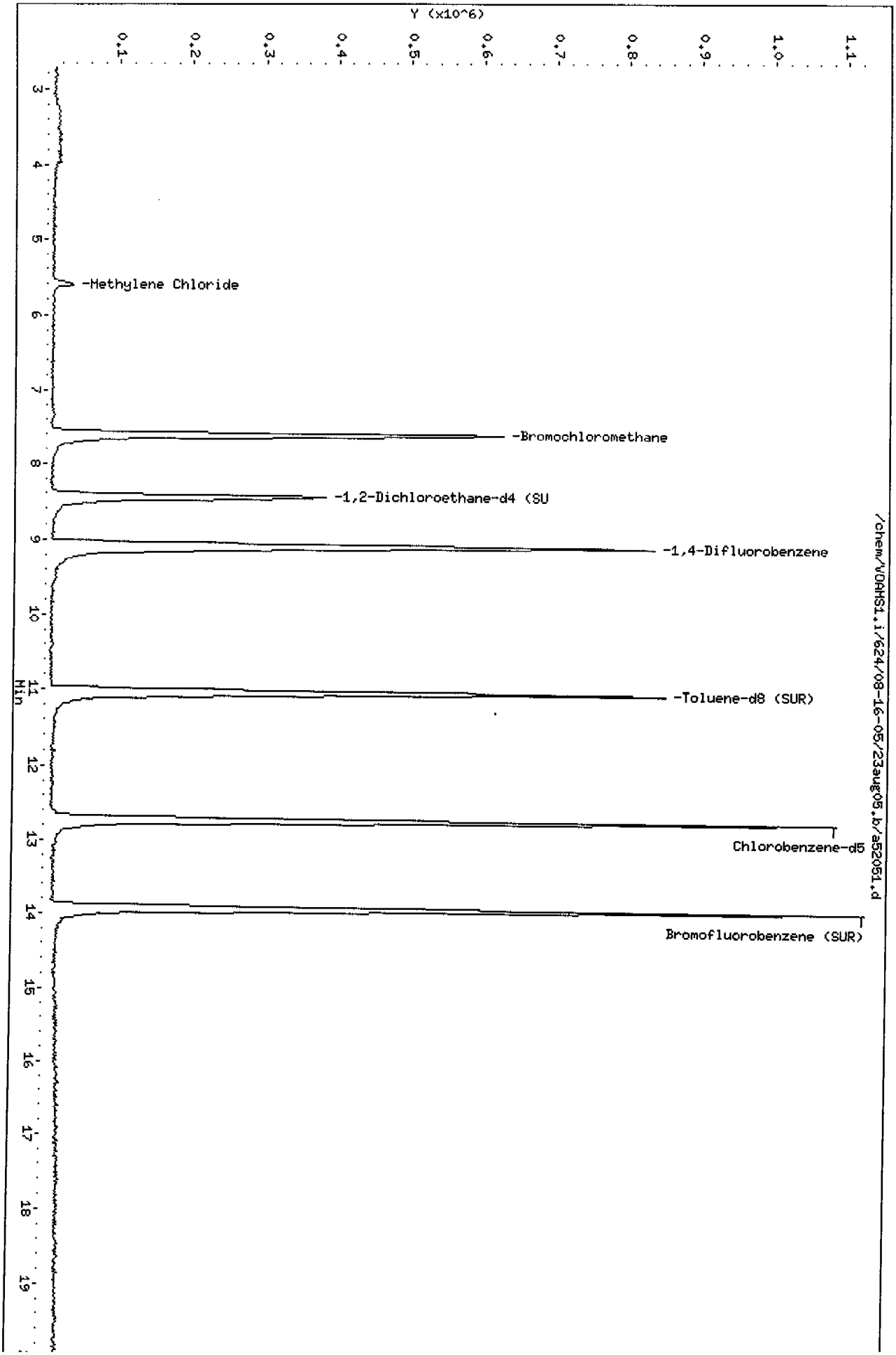
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
6 Methylene Chloride	84	5.593	5.579	(0.736)	23997	1.28589	1.3
* 2 Bromochloromethane	128	7.600	7.585	(1.000)	385845	30.0000	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	8.432	8.418	(0.930)	83850	29.6977	30
* 19 1,4-Difluorobenzene	114	9.071	9.057	(1.000)	1615077	30.0000	
$ 37 Toluene-d8 (SUR)	98	11.033	11.018	(0.868)	1252190	27.6775	28
* 32 Chlorobenzene-d5	117	12.712	12.713	(1.000)	1195390	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.916	13.946	(1.095)	579346	27.5940	28

conf by A52075.d

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52051.d
Date : 23-AUG-2005 20:13
Client ID: T081805
Sample Info: 662406
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS1.i
Operator: VOAMS 1
Column diameter: 0.53



Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52051.d

Date : 23-AUG-2005 20:13

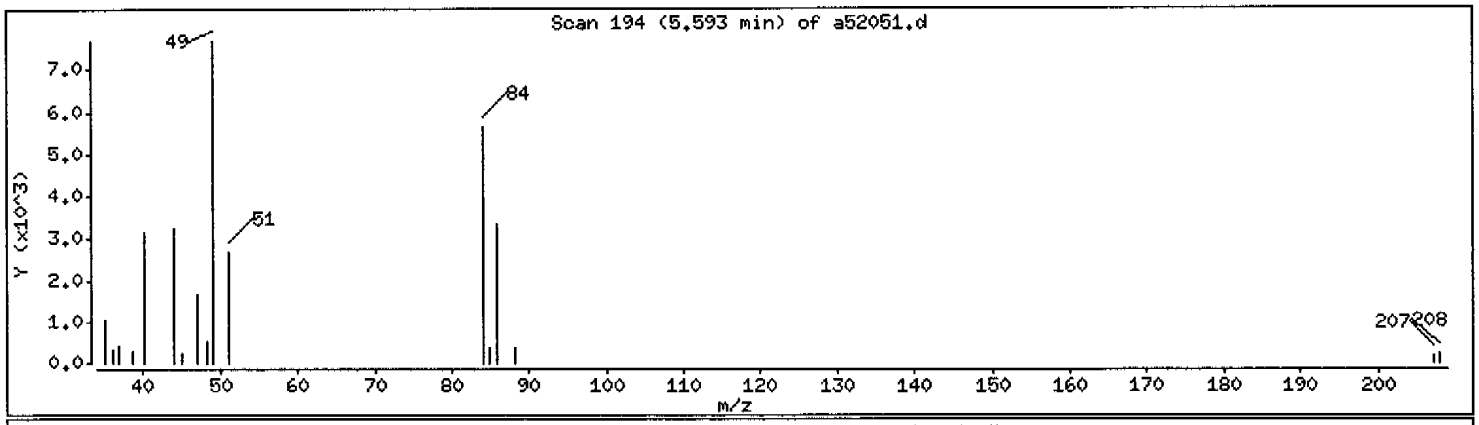
Client ID: T081805 | Instrument: VOAMS1.i

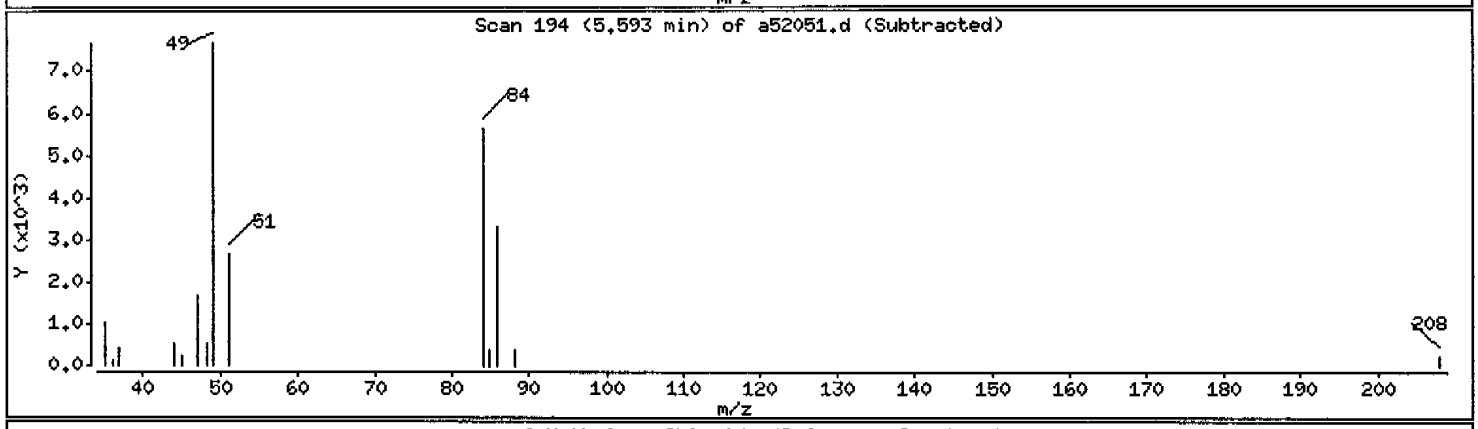
Sample Info: 662406

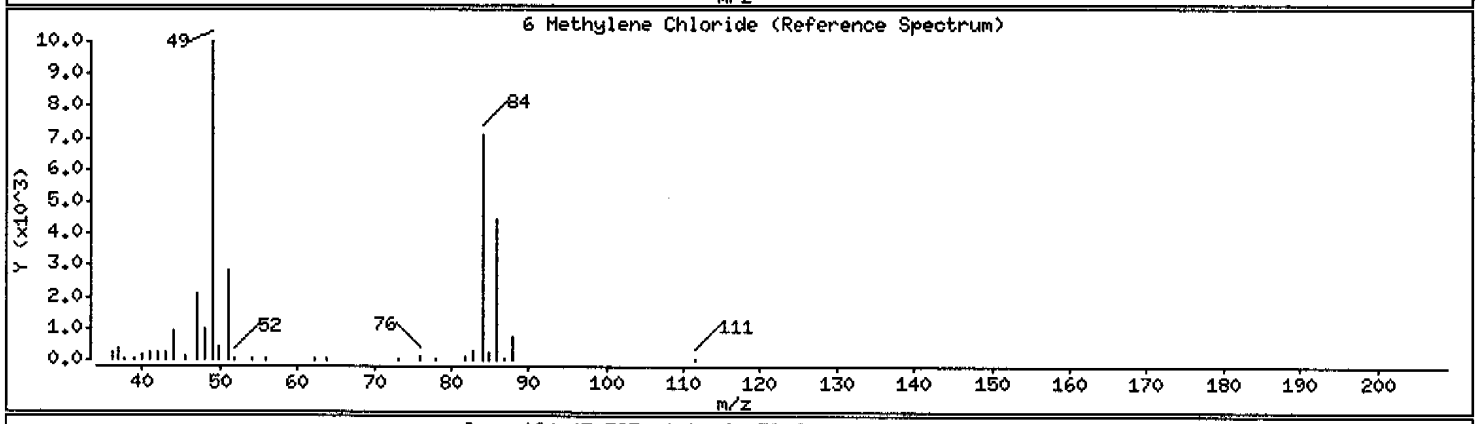
Purge Volume: 5.0 | Operator: VOAMS 1

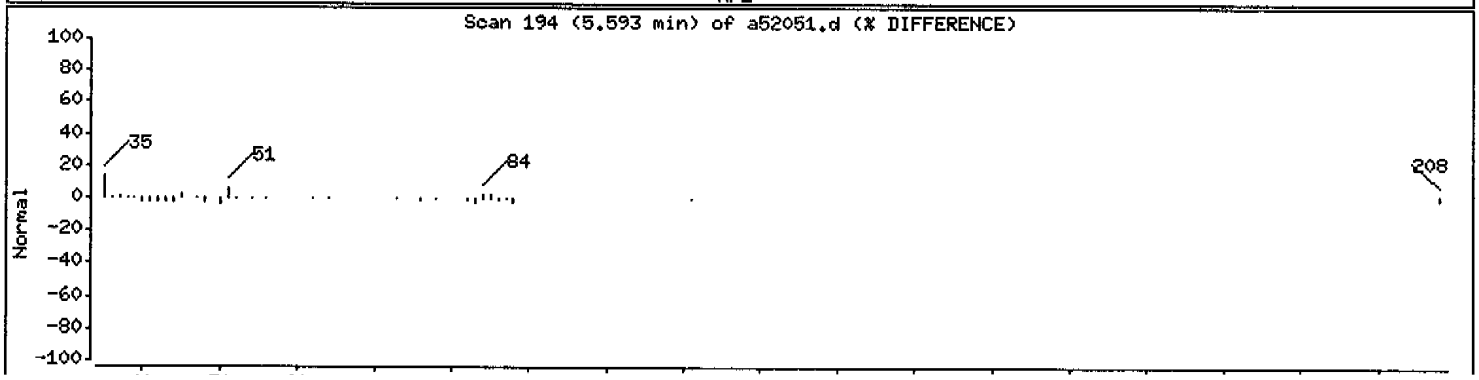
Column phase: DB624 | Column diameter: 0.53

6 Methylene Chloride | Concentration: 1.3 ug/L









Tuning Results Summary

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: A51918 BFB Injection Date: 08/16/05

Instrument ID: VOAMS1 BFB Injection Time: 2134

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	55.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 100.0% of mass 95	68.5
175	5.0 - 9.0% of mass 174	5.3 (7.7)1
176	95.0 - 101.0% of mass 174	68.5 (100.0)1
177	5.0 - 9.0% of mass 176	4.8 (7.0)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	A51921	08/16/05	2259
02	ASTD020	ASTD020	A51922	08/16/05	2328
03	ASTD200	ASTD200	A51924	08/17/05	0025
04	ASTD005	ASTD005	A51928	08/17/05	0221
05	ASTD050	ASTD050	A51930	08/17/05	0317
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Data File: /chem/VOAMS1.i/624/08-16-05/16aug05.b/a51918.d

Date : 16-AUG-2005 21:34

Client ID:

Instrument: VOAMS1.i

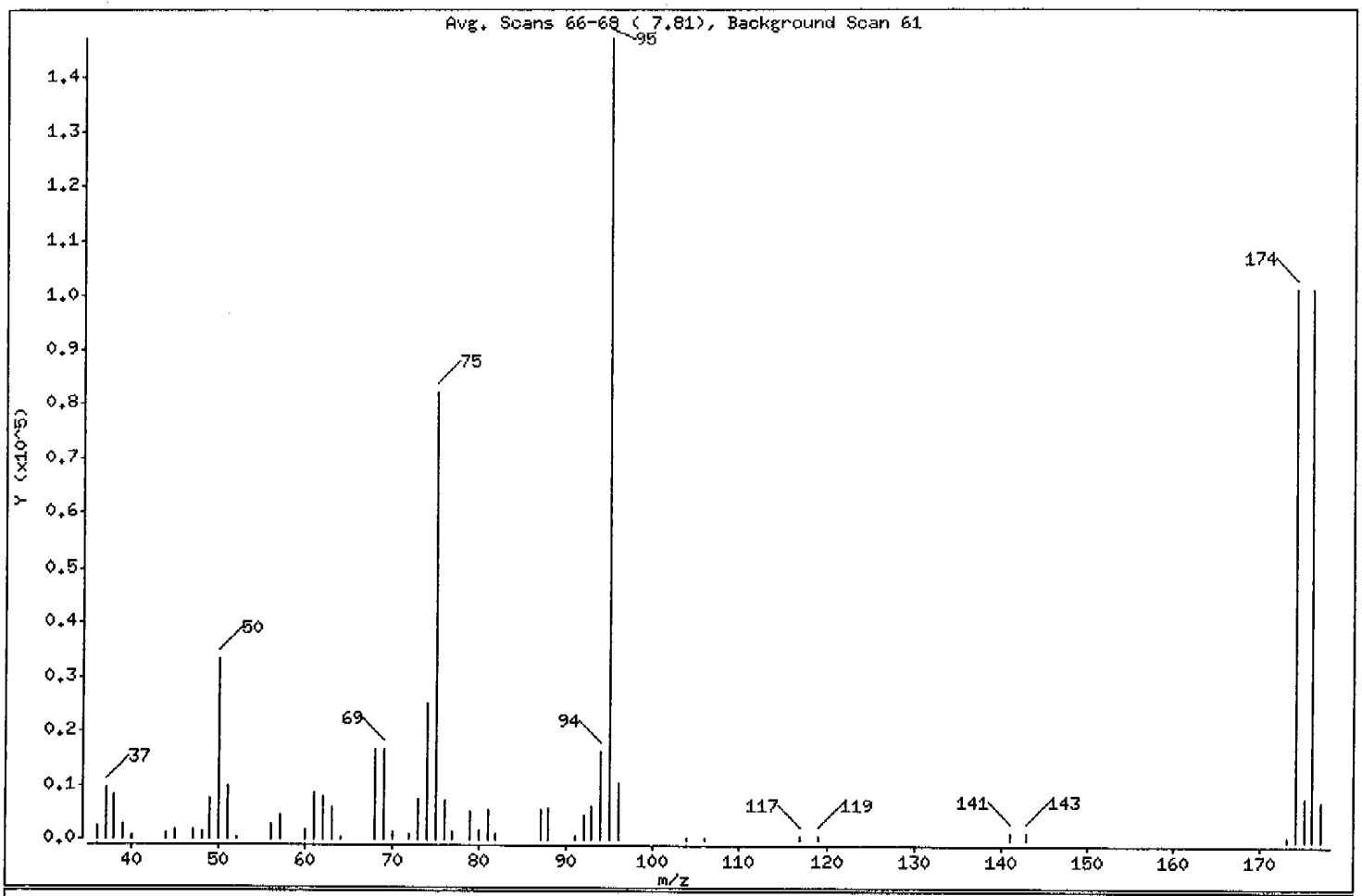
Sample Info: ABFB228 50NG

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.62
75	30.00 - 60.00% of mass 95	55.77
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.46 (0.67)
174	50.00 - 100.00% of mass 95	68.54
175	5.00 - 9.00% of mass 174	5.27 (7.69)
176	95.00 - 101.00% of mass 174	68.54 (100.00)
177	5.00 - 9.00% of mass 176	4.77 (6.96)

Data File: /chem/VOAMS1.i/624/08-16-05/16aug05.b/a51918.d

Date : 16-AUG-2005 21:34

Client ID: Instrument: VOAMS1.i

Sample Info: ABFB228 50NG

Operator: VOAMS 1

Column phase: DB-624 Column diameter: 0.53

Data File: a51918.d
Spectrum: Avg. Scans 66-68 (7.81), Background Scan 61
Location of Maximum: 95.00
Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2336	57.00	4475	77.00	1213	106.00	249
37.00	9336	60.00	1798	79.00	5221	117.00	539
38.00	8275	61.00	8366	80.00	1647	119.00	633
39.00	2596	62.00	7782	81.00	5313	141.00	1382
40.00	731	63.00	5619	82.00	1163	143.00	1383
44.00	1025	64.00	241	87.00	5402	173.00	675
45.00	1720	68.00	16584	88.00	5867	174.00	100968
47.00	1727	69.00	16632	91.00	510	175.00	7769
48.00	1477	70.00	1411	92.00	4467	176.00	100960
49.00	7458	72.00	1045	93.00	5948	177.00	7026
50.00	33328	73.00	7404	94.00	16326		
51.00	9831	74.00	25112	95.00	147264		
52.00	233	75.00	82152	96.00	10517		
56.00	2666	76.00	7061	104.00	233		

Data File: /chem/VOAMS1.i/624/08-16-05/16aug05.b/a51918.d

Date : 16-AUG-2005 21:34

Client ID:

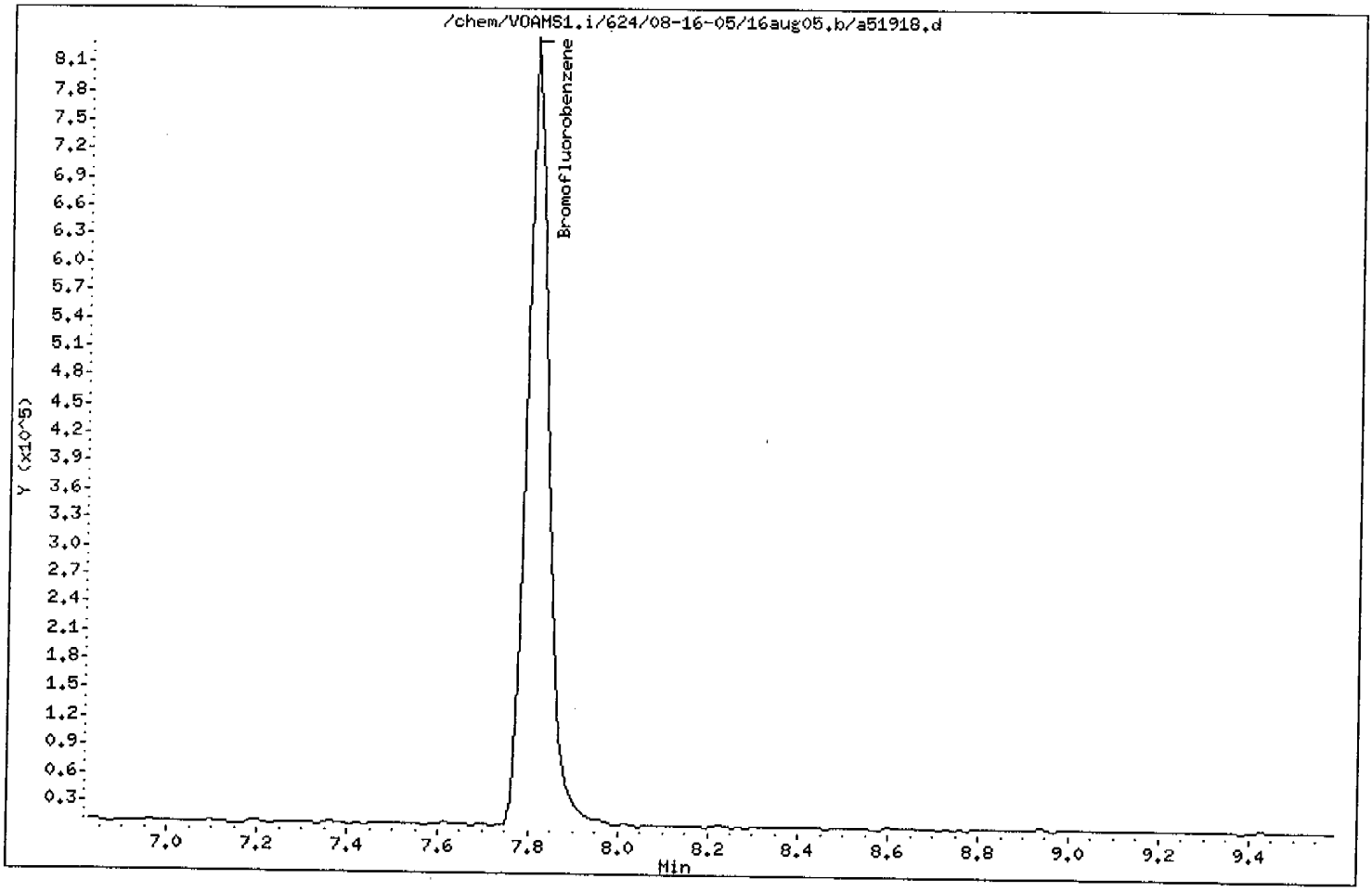
Instrument: VOAMS1.i

Sample Info: ABFB228 50NG

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: A52033

BFB Injection Date: 08/23/05

Instrument ID: VOAMS1

BFB Injection Time: 0948

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	54.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 100.0% of mass 95	76.8
175	5.0 - 9.0% of mass 174	5.4 (7.0)1
176	95.0 - 101.0% of mass 174	77.0 (100.4)1
177	5.0 - 9.0% of mass 176	5.0 (6.5)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD235	ASTD235	A52036	08/23/05	1207
02	AV235A	AV235A	A52041	08/23/05	1500
03	F081805	662402	A52047	08/23/05	1819
04	MW37B	662403	A52048	08/23/05	1848
05	MW4A	662404	A52049	08/23/05	1916
06	MW4B	662405	A52050	08/23/05	1944
07	T081805	662406	A52051	08/23/05	2013
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22					

page 1 of 1

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52033.d

Date : 23-AUG-2005 09:48

Client ID: ABFB235

Instrument: VOAMS1.i

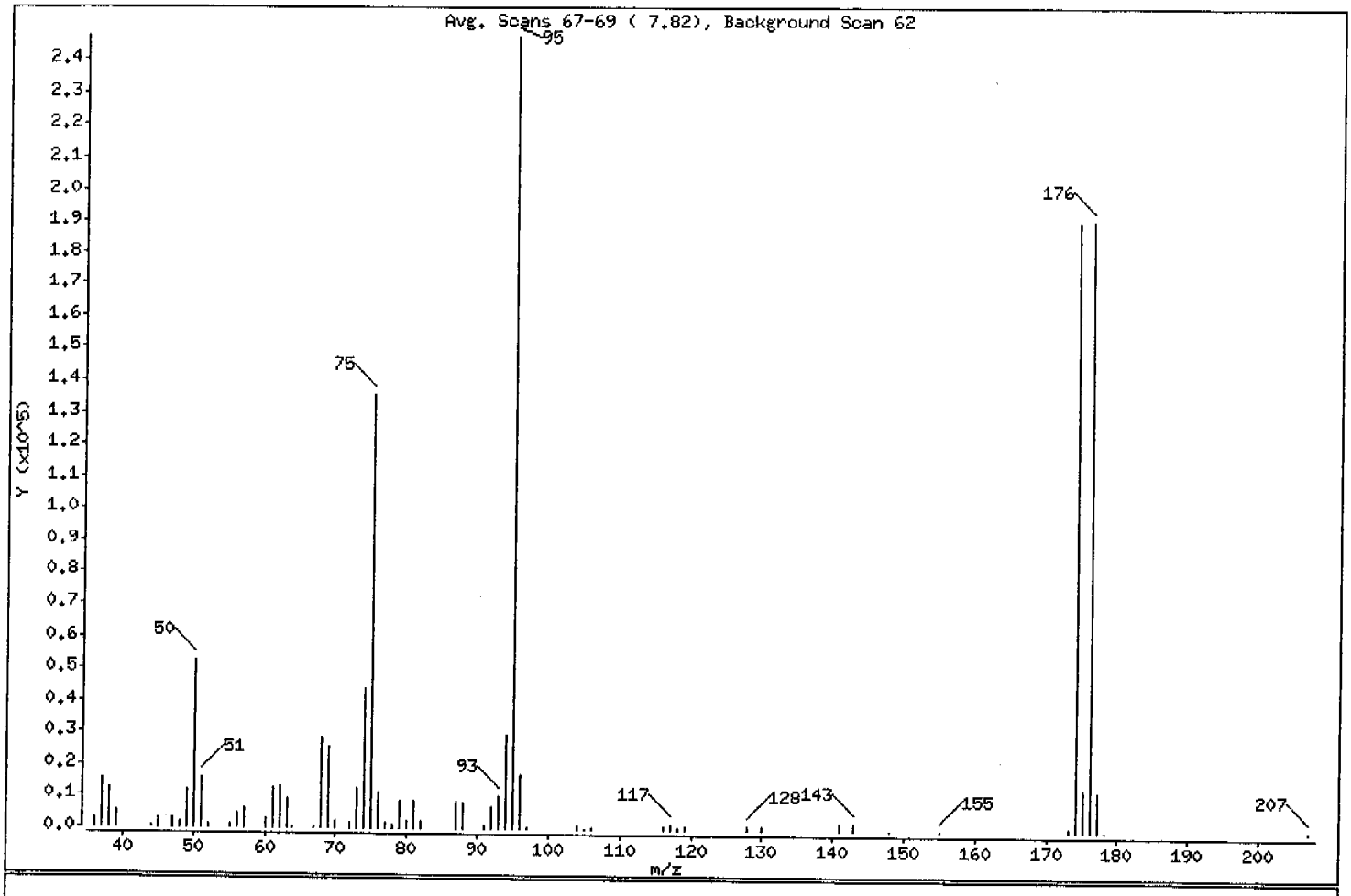
Sample Info: ABFB235 50NG

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.31
75	30.00 - 60.00% of mass 95	54.91
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.42 (0.55)
174	50.00 - 100.00% of mass 95	76.76
175	5.00 - 9.00% of mass 174	5.40 (7.03)
176	95.00 - 101.00% of mass 174	77.04 (100.37)
177	5.00 - 9.00% of mass 176	5.03 (6.53)

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52033.d

Date : 23-AUG-2005 09:48

Client ID: ABFB235 Instrument: VOAMS1.i

Sample Info: ABFB235 50NG

Operator: VOAMS 1

Column phase: DB-624 Column diameter: 0.53

Data File: a52033.d
Spectrum: Avg. Scans 67-69 (7.82), Background Scan 62
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2809	62.00	12897	82.00	2060	128.00	1080
37.00	15357	63.00	9234	87.00	8586	130.00	1012
38.00	12362	64.00	632	88.00	7985	141.00	2377
39.00	4957	67.00	743	91.00	1253	143.00	2437
44.00	584	68.00	28184	92.00	6936	148.00	244
45.00	2918	69.00	25656	93.00	10183	155.00	242
47.00	3099	70.00	2271	94.00	29440	173.00	1044
48.00	1745	72.00	1904	95.00	246976	174.00	189568
49.00	12065	73.00	12728	96.00	16976	175.00	13327
50.00	52624	74.00	43920	97.00	577	176.00	190272
51.00	15904	75.00	135616	104.00	1184	177.00	12420
52.00	894	76.00	11449	105.00	237	178.00	259
55.00	899	77.00	1697	106.00	742	207.00	299
56.00	4596	78.00	1147	116.00	1042		
57.00	6279	79.00	8523	117.00	1546		
60.00	2792	80.00	2314	118.00	724		
61.00	12628	81.00	8463	119.00	1401		

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52033.d

Date : 23-AUG-2005 09:48

Client ID: ABFB235

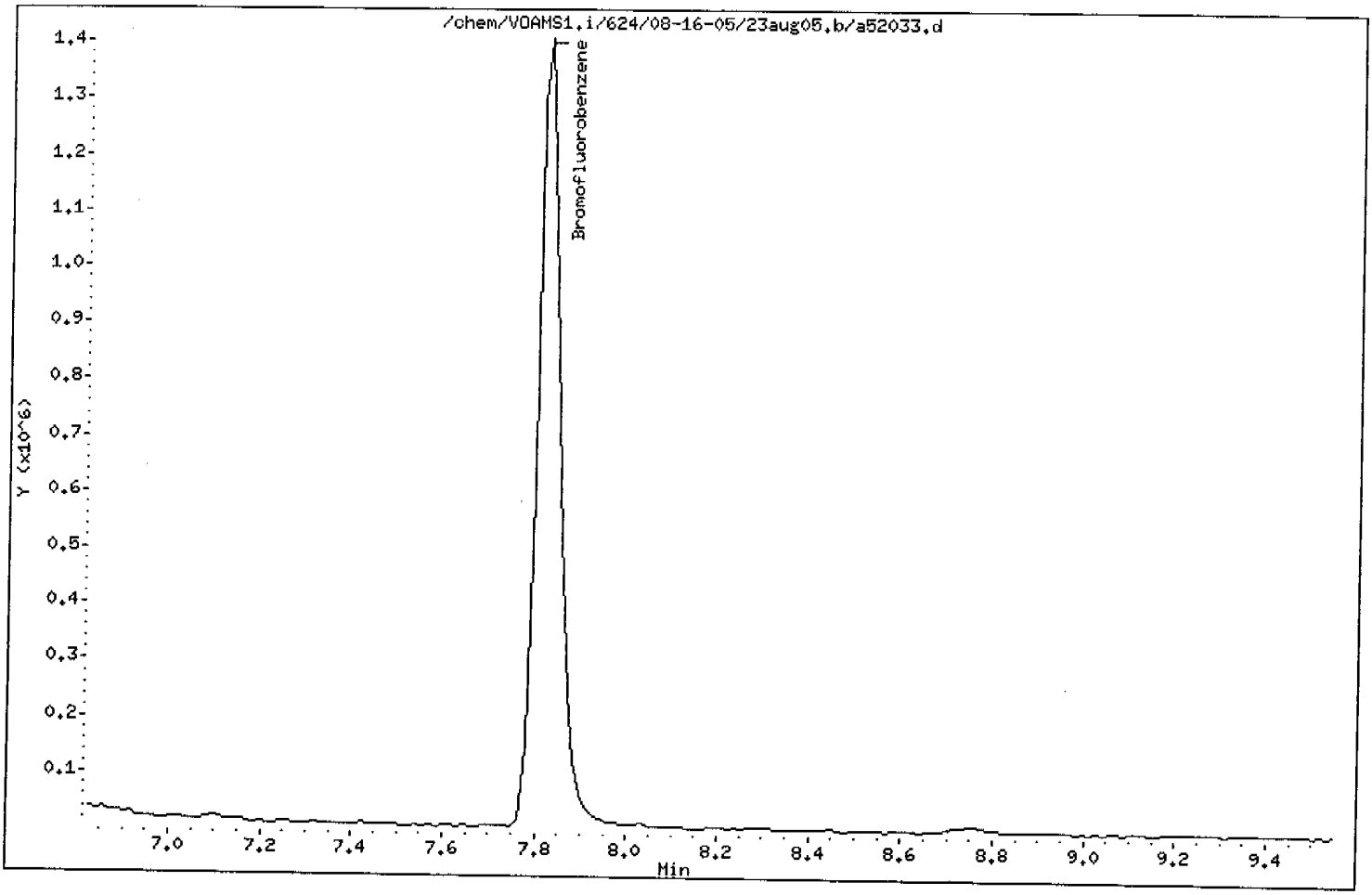
Instrument: VOAMS1.i

Sample Info: ABFB235 50NG

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53



Method Blank Results Summary

LAB SAMPLE NO.

AV235A

VOLATILE METHOD BLANK SUMMARY

Matrix: WATER

Date Analyzed: 08/23/05

Level: LOW

Time Analyzed: 1500

Lab File ID: A52041

Heated Purge (Y/N) N

Instrument ID: VOAMS1

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	F081805	662402	A52047	1819
02	MW37B	662403	A52048	1848
03	MW4A	662404	A52049	1916
04	MW4B	662405	A52050	1944
05	T081805	662406	A52051	2013
06				
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COMMENTS:

page 1 of 1

Client ID: **AV235A**
Site:

Lab Sample No: **AV235A**
Lab Job No: E123

Date Sampled: _____
Date Received: _____
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52041.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.3
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.3
Chloroethane	ND	0.2
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Carbon Disulfide	ND	0.3
Trichlorofluoromethane	ND	0.2
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.3
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.3
2-Butanone	ND	0.9
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.3
Bromodichloromethane	ND	0.3
1,2-Dichloropropane	ND	0.3
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.3
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
4-Methyl-2-Pentanone	ND	0.5
2-Hexanone	ND	0.5
Tetrachloroethene	ND	0.4
1,1,2,2-Tetrachloroethane	ND	0.3
Toluene	ND	0.4
Chlorobenzene	ND	0.4
Ethylbenzene	ND	0.5

Client ID: **AV235A**
Site:

Lab Sample No: **AV235A**
Lab Job No: E123

Date Sampled: _____
Date Received: _____
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52041.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Styrene	ND	0.4
Xylene (Total)	ND	0.4
Ethyl Ether	ND	0.2
Acrolein	ND	4.6
Freon TF	ND	0.4
Isopropanol	ND	500
Acetonitrile	ND	100
TBA	ND	4.4
Acrylonitrile	ND	1.8
MTBE	ND	0.2
Hexane	ND	0.4
DIPE	ND	0.3
Ethyl Acetate	ND	0.7
Vinyl Acetate	ND	0.3
Tetrahydrofuran	ND	5.0
Cyclohexane	ND	0.3
Isobutanol	ND	500
Isopropyl Acetate	ND	0.4
n-Heptane	ND	1.0
n-Butanol	ND	48
Propyl Acetate	ND	0.5
Butyl Acetate	ND	0.4
1,2-Dibromoethane	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.4
Naphthalene	ND	0.4
Methylnaphthalene (total)	ND	1.0
Dimethylnaphthalene (total)	ND	1.0
Dichlorodifluoromethane	ND	0.5
1,4-Dioxane	ND	56
n-Pentane	ND	0.4
5-Methyl-2-Hexanone	ND	5.0
Isopropylbenzene	ND	0.5

Client ID: **AV235A**
Site:

Lab Sample No: **AV235A**
Lab Job No: E123

Date Sampled: _____
Date Received: _____
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52041.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
1,2,4-Trimethylbenzene	ND	0.4
Cyclohexanone	ND	100
1,2,4-Trichlorobenzene	ND	0.4
Methyl Methacrylate	ND	0.7
Allyl Alcohol	ND	1000
Epichlorohydrin	ND	4.8
Allyl Chloride	ND	5.0
Benzyl Chloride	ND	0.4
Isoprene	ND	0.4
1,1,1,2-Tetrachloroethane	ND	0.4
Camphene (total)	ND	20
Camphor	ND	20
1,3,5-Trimethylbenzene	ND	0.4
1,2,3-Trichlorobenzene	ND	0.3
n-Butylbenzene	ND	0.3
sec-Butylbenzene	ND	0.4
tert-Butylbenzene	ND	0.4
p-Isopropyltoluene	ND	0.4
n-Propylbenzene	ND	0.4
m+p-Ethyltoluene	ND	1.0
o-Ethyltoluene	ND	1.0
Methyl Acetate	ND	0.3
Methyl cyclohexane	ND	0.3
1,2-Dibromo-3-chloropropane	ND	0.3
Cyclohexene	ND	1.0
1,2-Dichlorotrifluoroethane	ND	1.0
n-Propanol	ND	500
3-Methyl-1-Pentyn-3-ol	ND	250
Propylene Oxide	ND	50
Ethanol	ND	500
Chlorotrifluoroethane	ND	1.0
Dichlorofluoromethane	ND	1.0
Ethylene Oxide	ND	500
Methyl Formate	ND	500

Client ID: **AV235A**
Site:

Lab Sample No: **AV235A**
Lab Job No: E123

Date Sampled: _____
Date Received: _____
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52041.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Isobutyraldehyde	ND	5.0
Amyl Acetate	ND	0.3
1,2,3-Trichloropropane	ND	0.5
Chlorodifluoromethane	ND	1.0
1,3-Dichloropropane	ND	0.4
Dibromomethane	ND	0.3
1-Propene	ND	0.4
2-Chloropropane	ND	0.3
1-Chloropropane	ND	0.3
tert-Amymethyl Ether	ND	5.0

Client ID: **AV235A**
Site:

Lab Sample No: **AV235A**
Lab Job No: E123

Date Sampled: _____
Date Received: _____
Date Analyzed: 08/23/05
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a52041.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52041.d
Report Date: 23-Aug-2005 15:23

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/624/08-16-05/23aug05.b/a52041.d
Lab Smp Id: AV235A Client Smp ID: AV235A
Inj Date : 23-AUG-2005 15:00
Operator : VOAMS 1 Inst ID: VOAMS1.i
Smp Info : AV235A
Misc Info :
Comment :
Method : /chem/VOAMS1.i/624/08-16-05/23aug05.b/624_05.m
Meth Date : 23-Aug-2005 12:25 tolentin Quant Type: ISTD
Cal Date : 17-AUG-2005 03:17 Cal File: a51930.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpd2

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

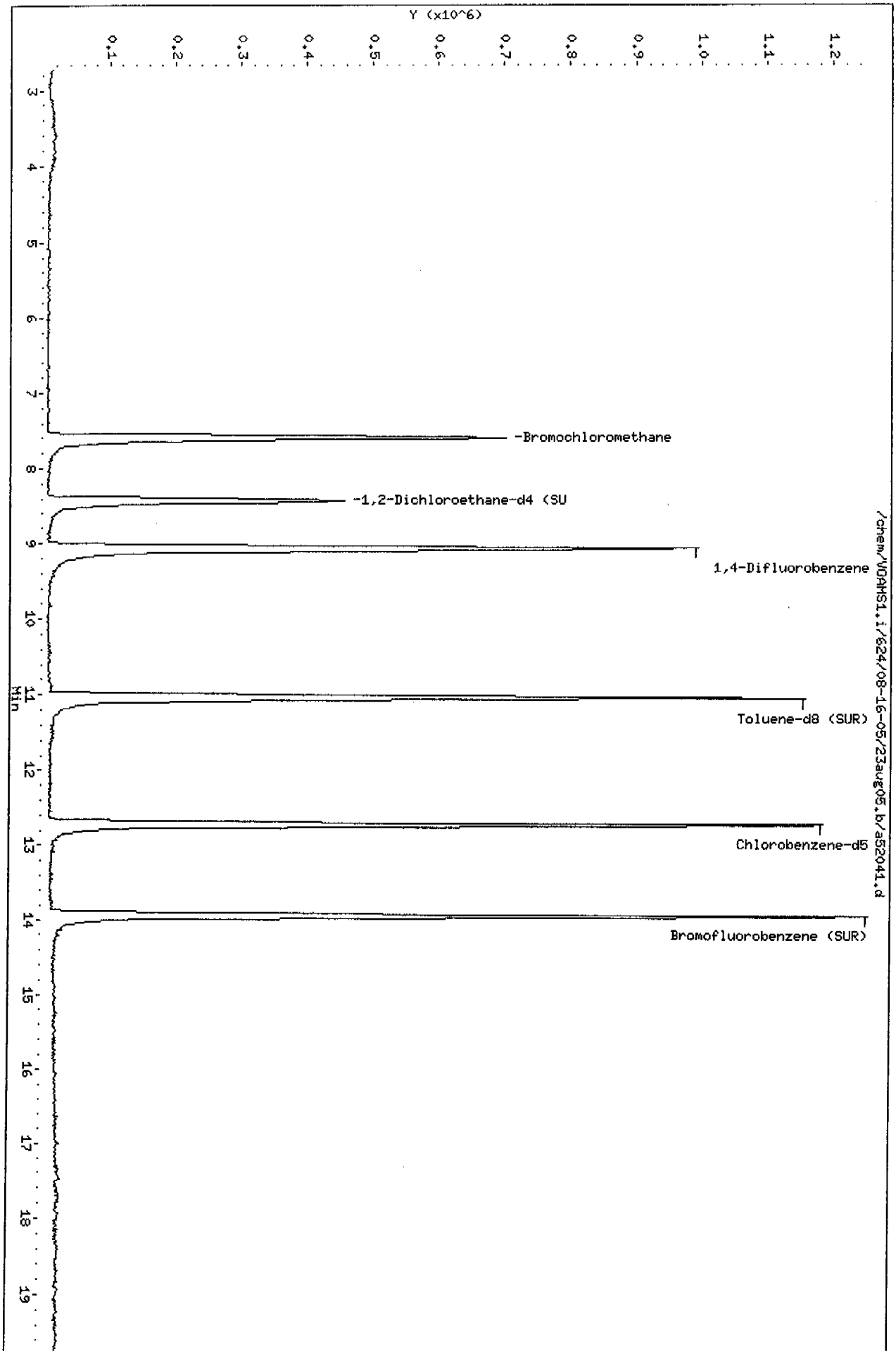
Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	7.592	7.585	(1.000)	452448	30.0000	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	8.424	8.418	(0.929)	109229	32.1245	32
* 19 1,4-Difluorobenzene	114	9.063	9.057	(1.000)	1944979	30.0000	
$ 37 Toluene-d8 (SUR)	98	11.025	11.018	(0.867)	1645192	31.5934	32
* 32 Chlorobenzene-d5	117	12.719	12.713	(1.000)	1375897	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	13.938	13.946	(1.096)	698420	28.9012	29

Data File: /chem/VOAHS1.i/624/08-16-05/23aug05.b/a52041.d
Date : 23-AUG-2005 15:00
Client ID: AV235A
Sample Info: AV235A
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS1.i
Operator: VOAHS 1
Column diameter: 0.53



Calibration Summary

VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 624

Instrument ID: VOAMS1 Calibration Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Calibration Time(s): 2259 0317

LAB FILE ID: RRF5: A51928 RRF10: A51921 RRF20: A51922
RRF50: A51930 RRF200: A51924

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Chloromethane	0.714	0.670	0.744	0.717	0.747
Bromomethane	1.196	1.312	1.367	1.316	1.312
Vinyl Chloride	0.893	0.921	0.981	1.019	0.745
Chloroethane	0.683	0.729	0.711	0.734	0.518
Methylene Chloride	1.497	1.424	1.573	1.537	1.224
Acetone	0.363	0.297	0.314	0.314	0.254
Carbon Disulfide	2.647	3.145	2.664	3.250	3.501
Trichlorofluoromethane	3.198	3.417	3.763	3.808	3.698
1,1-Dichloroethene	1.106	1.118	1.301	1.370	1.403
1,1-Dichloroethane	2.550	2.459	2.824	2.787	3.192
trans-1,2-Dichloroethene	1.399	1.461	1.588	1.600	1.856
cis-1,2-Dichloroethene	1.561	1.471	1.675	1.629	1.886
Chloroform	3.336	3.142	3.614	3.578	4.140
1,2-Dichloroethane	0.449	0.454	0.527	0.504	0.497
2-Butanone	0.114	0.133	0.119	0.114	0.134
1,1,1-Trichloroethane	2.182	2.310	2.807	2.983	3.700
Carbon Tetrachloride	1.822	1.906	2.435	2.617	3.293
Bromodichloromethane	0.542	0.538	0.660	0.697	0.738
1,2-Dichloropropane	0.311	0.302	0.349	0.345	0.353
cis-1,3-Dichloropropene	0.373	0.396	0.476	0.510	0.539
Trichloroethene	0.338	0.367	0.419	0.427	0.438
Dibromochloromethane	0.484	0.525	0.660	0.670	0.826
1,1,2-Trichloroethane	0.306	0.324	0.386	0.350	0.382
Benzene	0.725	0.751	0.850	0.835	0.843
trans-1,3-Dichloropropene	0.382	0.413	0.524	0.533	0.652
2-Chloroethyl Vinyl Ether	0.125	0.174	0.165	0.173	0.182
Bromoform	0.280	0.301	0.385	0.392	0.487
4-Methyl-2-Pentanone	0.266	0.268	0.239	0.235	0.216
2-Hexanone	0.081	0.136	0.150	0.153	0.169
Tetrachloroethene	0.378	0.385	0.520	0.497	0.558
1,1,2,2-Tetrachloroethane	0.454	0.488	0.551	0.521	0.592
Toluene	0.934	1.052	1.236	1.186	1.324
Chlorobenzene	0.721	0.755	0.916	0.861	0.963
Ethylbenzene	0.293	0.303	0.399	0.366	0.403
Styrene	0.534	0.578	0.766	0.727	0.824
Xylene (Total)	0.363	0.370	0.467	0.459	0.492
Ethyl Ether	0.921	0.997	0.955	0.916	1.080
Acrolein	0.130	0.120	0.123	0.121	0.104
Freon TF	2.467	3.029	2.581	2.943	3.418

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Calibration Time(s): 2259 0317

LAB FILE ID: RRF5: A51928 RRF10: A51921 RRF20: A51922
RRF50: A51930 RRF200: A51924

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Isopropanol					
Acetonitrile	0.015	0.012	0.013	0.014	0.010
TBA	0.060	0.074	0.071	0.067	0.075
Acrylonitrile	0.237	0.252	0.239	0.243	0.230
MTBE	3.493	3.820	3.491	3.610	4.110
Hexane					
DIPE	4.554	5.148	4.661	4.729	5.646
Ethyl Acetate	0.135	0.128	0.137	0.143	0.156
Vinyl Acetate	3.631	4.539	3.817	4.050	4.890
Tetrahydrofuran					
Cyclohexane	1.458	1.777	1.536	1.779	2.109
Isobutanol					
Isopropyl Acetate	0.390	0.508	0.471	0.495	0.466
n-Heptane					
n-Butanol	0.008	0.015	0.015	0.016	0.022
Propyl Acetate	0.323	0.450	0.414	0.388	0.352
Butyl Acetate	0.436	0.610	0.564	0.543	0.542
1,2-Dibromoethane	0.485	0.497	0.585	0.559	0.641
1,3-Dichlorobenzene	0.449	0.491	0.632	0.627	0.694
1,4-Dichlorobenzene	0.609	0.644	0.782	0.729	0.878
1,2-Dichlorobenzene	0.507	0.535	0.678	0.630	0.739
Naphthalene	0.585	0.599	0.714	0.672	0.811
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	1.661	1.788	1.929	1.966	1.472
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002
n-Pentane	0.170	0.187	0.178	0.179	0.222
5-Methyl-2-Hexanone					
Isopropylbenzene	0.885	0.881	1.215	1.138	1.271
1,2,4-Trimethylbenzene	0.726	0.738	0.966	0.963	1.032
Cyclohexanone					
1,2,4-Trichlorobenzene	0.347	0.333	0.438	0.409	0.477
Methyl Methacrylate	0.054	0.077	0.072	0.076	0.074
Allyl Alcohol	0.005	0.009	0.008	0.008	0.012
Epichlorohydrin	0.014	0.020	0.021	0.021	0.020
Allyl Chloride	0.969	1.332	1.241	1.283	0.980
Benzyl Chloride	0.301	0.381	0.412	0.466	0.642
Isoprene	0.981	1.220	1.038	1.256	1.560
1,1,1,2-Tetrachloroethane	0.340	0.350	0.438	0.452	0.510

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Calibration Time(s): 2259 0317

LAB FILE ID: RRF5: A51928 RRF10: A51921 RRF20: A51922
RRF50: A51930 RRF200: A51924

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Camphene (total)					
Camphor					
1,3,5-Trimethylbenzene	0.716	0.741	0.955	0.963	1.009
1,2,3-Trichlorobenzene	0.328	0.318	0.400	0.356	0.415
n-Butylbenzene	0.633	0.641	0.886	0.850	0.982
sec-Butylbenzene	0.750	0.803	1.175	1.082	1.235
tert-Butylbenzene	0.728	0.730	1.026	0.993	1.095
p-Isopropyltoluene	0.718	0.733	1.006	0.984	1.100
n-Propylbenzene	0.992	0.969	1.357	1.320	1.414
m+p-Ethyltoluene					
o-Ethyltoluene					
Methyl Acetate	1.121	0.871	0.819	0.891	0.801
Methyl cyclohexane	0.268	0.320	0.292	0.332	0.336
1,2-Dibromo-3-chloropropane	0.078	0.094	0.118	0.112	0.146
Cyclohexene					
1,2-Dichlorotrifluoroethane					
n-Propanol					
3-Methyl-1-Pentyn-3-ol					
Propylene Oxide					
Ethanol					
Chlorotrifluoroethane					
Dichlorofluoromethane					
Ethylene Oxide					
Methyl Formate					
Isobutyraldehyde					
Amyl Acetate					
1,2,3-Trichloropropane	0.124	0.146	0.152	0.139	0.165
Chlorodifluoromethane					
1,3-Dichloropropane	0.570	0.612	0.707	0.631	0.710
Dibromomethane	0.322	0.324	0.359	0.358	0.355
1-Propene					
2-Chloropropane					
1-Chloropropane					
tert-Amymethyl Ether					
1,2-Dichloroethane-d4 (SUR)	0.054	0.055	0.052	0.052	0.050
Toluene-d8 (SUR)	1.053	1.142	1.170	1.108	1.205
Bromofluorobenzene (SUR)	0.492	0.518	0.538	0.525	0.561

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Calibration Time(s): 2259 0317

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Chloromethane	AVRG	0.71835725	4.3*
Bromomethane	AVRG	1.30068776	4.8*
Vinyl Chloride	AVRG	0.91181007	11.6*
Chloroethane	AVRG	0.67498949	13.3*
Methylene Chloride	AVRG	1.45097841	9.5*
Acetone	AVRG	0.30840560	12.8*
Carbon Disulfide	AVRG	3.04145954	12.3*
Trichlorofluoromethane	AVRG	3.57704588	7.3*
1,1-Dichloroethene	AVRG	1.25988798	11.1*
1,1-Dichloroethane	AVRG	2.76263739	10.3*
trans-1,2-Dichloroethene	AVRG	1.58055835	11.1*
cis-1,2-Dichloroethene	AVRG	1.64422682	9.4*
Chloroform	AVRG	3.56204191	10.5*
1,2-Dichloroethane	AVRG	0.48640934	6.9*
2-Butanone	AVRG	0.12263512	8.1*
1,1,1-Trichloroethane	AVRG	2.79639571	21.6*
Carbon Tetrachloride	AVRG	2.41474634	24.7*
Bromodichloromethane	AVRG	0.63498990	14.3*
1,2-Dichloropropane	AVRG	0.33215528	7.1*
cis-1,3-Dichloropropene	AVRG	0.45861654	15.6*
Trichloroethene	AVRG	0.39771486	10.9*
Dibromochloromethane	AVRG	0.63309047	21.4*
1,1,2-Trichloroethane	AVRG	0.34947752	10.0*
Benzene	AVRG	0.80074522	7.3*
trans-1,3-Dichloropropene	AVRG	0.50078245	21.5*
2-Chloroethyl Vinyl Ether	AVRG	0.16389650	13.9*
Bromoform	AVRG	0.36891213	22.4*
4-Methyl-2-Pentanone	AVRG	0.24469856	8.9*
2-Hexanone	AVRG	0.13762768	24.7*
Tetrachloroethene	AVRG	0.46759684	17.4*
1,1,2,2-Tetrachloroethane	AVRG	0.52118147	10.3*
Toluene	AVRG	1.14664574	13.4*
Chlorobenzene	AVRG	0.84324841	12.2*
Ethylbenzene	AVRG	0.35284686	14.8*
Styrene	AVRG	0.68589800	18.1*
Xylene (Total)	AVRG	0.43013818	13.8*
Ethyl Ether	AVRG	0.97397464	6.9*
Acrolein	AVRG	0.11972124	7.9*
Freon TF	AVRG	2.88768806	13.1*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Calibration Time(s): 2259 0317

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Isopropanol	AVRG		
Acetonitrile	AVRG	0.01298132	13.5*
TBA	AVRG	0.06949754	8.8*
Acrylonitrile	AVRG	0.24026773	3.3*
MTBE	AVRG	3.70480376	7.1*
Hexane	AVRG		
DIPE	AVRG	4.94771214	9.1*
Ethyl Acetate	AVRG	0.13967029	7.8*
Vinyl Acetate	AVRG	4.18536191	12.4*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	1.73188167	14.7*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.46616674	9.8*
n-Heptane	AVRG		
n-Butanol	AVRG	0.01515389	32.1*
Propyl Acetate	AVRG	0.38561756	12.9*
Butyl Acetate	AVRG	0.53930210	11.8*
1,2-Dibromoethane	AVRG	0.55340545	11.6*
1,3-Dichlorobenzene	AVRG	0.57857852	17.9*
1,4-Dichlorobenzene	AVRG	0.72849444	14.8*
1,2-Dichlorobenzene	AVRG	0.61782397	15.7*
Naphthalene	AVRG	0.67610350	13.6*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	1.76330229	11.5*
1,4-Dioxane	AVRG	0.00217918	14.1*
n-Pentane	AVRG	0.18730618	10.8*
5-Methyl-2-Hexanone	AVRG		
Isopropylbenzene	AVRG	1.07802770	17.1*
1,2,4-Trimethylbenzene	AVRG	0.88514128	16.1*
Cyclohexanone	AVRG		
1,2,4-Trichlorobenzene	AVRG	0.40100120	15.2*
Methyl Methacrylate	AVRG	0.07082049	13.5*
Allyl Alcohol	AVRG	0.00821092	32.1*
Epichlorohydrin	AVRG	0.01922987	13.8*
Allyl Chloride	AVRG	1.16128776	14.9*
Benzyl Chloride	AVRG	0.44045264	29.0*
Isoprene	AVRG	1.21118085	18.8*
1,1,1,2-Tetrachloroethane	AVRG	0.41823996	17.3*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Calibration Time(s): 2259 0317

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Camphene (total)	AVRG		
Camphor	AVRG		
1,3,5-Trimethylbenzene	AVRG	0.87695782	15.6*
1,2,3-Trichlorobenzene	AVRG	0.36350339	11.8*
n-Butylbenzene	AVRG	0.79826014	19.4*
sec-Butylbenzene	AVRG	1.00892702	21.8*
tert-Butylbenzene	AVRG	0.91446124	18.9*
p-Isopropyltoluene	AVRG	0.90808095	19.0*
n-Propylbenzene	AVRG	1.21048861	17.6*
m+p-Ethyltoluene	AVRG		
o-Ethyltoluene	AVRG		
Methyl Acetate	AVRG	0.90068600	14.3*
Methyl cyclohexane	AVRG	0.30949248	9.4*
1,2-Dibromo-3-chloropropane	AVRG	0.10976175	23.4*
Cyclohexene	AVRG		
1,2-Dichlorotrifluoroethane	AVRG		
n-Propanol	AVRG		
3-Methyl-1-Pentyn-3-ol	AVRG		
Propylene Oxide	AVRG		
Ethanol	AVRG		
Chlorotrifluoroethane	AVRG		
Dichlorofluoromethane	AVRG		
Ethylene Oxide	AVRG		
Methyl Formate	AVRG		
Isobutyraldehyde	AVRG		
Amyl Acetate	AVRG		
1,2,3-Trichloropropane	AVRG	0.14507505	10.4*
Chlorodifluoromethane	AVRG		
1,3-Dichloropropane	AVRG	0.64594960	9.5*
Dibromomethane	AVRG	0.34362607	5.4*
1-Propene	AVRG		
2-Chloropropane	AVRG		
1-Chloropropane	AVRG		
tert-Amymethyl Ether	AVRG		
1,2-Dichloroethane-d4 (SUR)	AVRG	0.05244543	3.5*
Toluene-d8 (SUR)	AVRG	1.13541610	5.1*
Bromofluorobenzene (SUR)	AVRG	0.52690874	4.8*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 624

Instrument ID: VOAMS1 Calibration Date: 08/23/05 Time: 1207

Lab File ID: A52036 Init. Calib. Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Init. Calib. Times: 2259 0317

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Chloromethane	0.718	0.590		17.8	104
Bromomethane	1.301	0.902		30.7	86.0
Vinyl Chloride	0.912	0.761		16.6	96.0
Chloroethane	0.675	0.571		15.4	62.0
Methylene Chloride	1.451	1.330		8.3	39.5
Acetone	0.308	0.220		28.6	40.0
Carbon Disulfide	3.041	1.986		34.7	40.0
Trichlorofluoromethane	3.577	2.925		18.2	52.0
1,1-Dichloroethene	1.260	1.116		11.4	49.5
1,1-Dichloroethane	2.762	2.379		13.9	27.5
trans-1,2-Dichloroethene	1.581	1.391		12.0	30.5
cis-1,2-Dichloroethene	1.644	1.438		12.5	40.0
Chloroform	3.562	3.036		14.8	32.5
1,2-Dichloroethane	0.486	0.415		14.6	32.0
2-Butanone	0.123	0.086		30.1	40.0
1,1,1-Trichloroethane	2.796	2.458		12.1	25.0
Carbon Tetrachloride	2.415	2.021		16.3	27.0
Bromodichloromethane	0.635	0.554		12.8	34.5
1,2-Dichloropropane	0.332	0.285		14.2	66.0
cis-1,3-Dichloropropene	0.459	0.373		18.7	76.0
Trichloroethene	0.398	0.335		15.8	33.5
Dibromochloromethane	0.633	0.626		1.1	32.5
1,1,2-Trichloroethane	0.350	0.342		2.3	29.0
Benzene	0.801	0.690		13.8	36.0
trans-1,3-Dichloropropene	0.501	0.470		6.2	50.0
2-Chloroethyl Vinyl Ether	0.164	0.103		37.2	124
Bromoform	0.369	0.363		1.6	29.0
4-Methyl-2-Pentanone	0.245	0.151		38.4	40.0
2-Hexanone	0.138	0.113		18.1	40.0
Tetrachloroethene	0.468	0.478		-2.1	26.5
1,1,2,2-Tetrachloroethane	0.521	0.497		4.6	39.5
Toluene	1.146	1.113		2.9	25.5
Chlorobenzene	0.843	0.844		-0.1	34.0
Ethylbenzene	0.353	0.336		4.8	41.0
Styrene	0.686	0.687		-0.1	40.0
Xylene (Total)	0.430	0.422		1.9	40.0
Ethyl Ether	0.974	0.680		30.2	40.0

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VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date: 08/23/05 Time: 1207

Lab File ID: A52036 Init. Calib. Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Init. Calib. Times: 2259 0317

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Acrolein	0.120	0.102		15.0	40.0
Freon TF	2.888	2.256		21.9	40.0
Isopropanol					40.0
Acetonitrile	0.013	0.009		30.8	40.0
TBA	0.069	0.046		33.3	40.0
Acrylonitrile	0.240	0.183		23.8	40.0
MTBE	3.705	2.689		27.4	40.0
Hexane					40.0
DIPE	4.948	3.521		28.8	40.0
Ethyl Acetate	0.140	0.106		24.3	40.0
Vinyl Acetate	4.185	2.953		29.4	40.0
Tetrahydrofuran					40.0
Cyclohexane	1.732	1.329		23.3	40.0
Isobutanol					40.0
Isopropyl Acetate	0.466	0.363		22.1	40.0
n-Heptane					40.0
n-Butanol	0.015	0.010		33.3	40.0
Propyl Acetate	0.385	0.284		26.2	40.0
Butyl Acetate	0.539	0.434		19.5	40.0
1,2-Dibromoethane	0.553	0.530		4.2	40.0
1,3-Dichlorobenzene	0.579	0.630		-8.8	27.0
1,4-Dichlorobenzene	0.728	0.751		-3.2	37.0
1,2-Dichlorobenzene	0.618	0.625		-1.1	37.0
Naphthalene	0.676	0.590		12.7	40.0
Methylnaphthalene (total)					40.0
Dimethylnaphthalene (total)					40.0
Dichlorodifluoromethane	1.763	1.415		19.7	40.0
1,4-Dioxane	0.002	0.001		50.0	40.0
n-Pentane	0.187	0.166		11.2	40.0
5-Methyl-2-Hexanone					40.0
Isopropylbenzene	1.078	1.101		-2.1	40.0
1,2,4-Trimethylbenzene	0.885	0.920		-4.0	40.0
Cyclohexanone					40.0
1,2,4-Trichlorobenzene	0.401	0.432		-7.7	40.0
Methyl Methacrylate	0.071	0.056		21.1	40.0
Allyl Alcohol	0.008	0.006		25.0	40.0
Epichlorohydrin	0.019	0.014		26.3	40.0

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VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date: 08/23/05 Time: 1207

Lab File ID: A52036 Init. Calib. Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Init. Calib. Times: 2259 0317

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Allyl Chloride	1.161	0.854		26.4	40.0
Benzyl Chloride	0.440	0.403		8.4	40.0
Isoprene	1.211	0.887		26.8	40.0
1,1,1,2-Tetrachloroethane	0.418	0.438		-4.8	40.0
Camphene (total)					40.0
Camphor					40.0
1,3,5-Trimethylbenzene	0.877	0.899		-2.5	40.0
1,2,3-Trichlorobenzene	0.363	0.370		-1.9	40.0
n-Butylbenzene	0.798	0.913		-14.4	40.0
sec-Butylbenzene	1.009	1.145		-13.5	40.0
tert-Butylbenzene	0.914	0.945		-3.4	40.0
p-Isopropyltoluene	0.908	0.999		-10.0	40.0
n-Propylbenzene	1.210	1.236		-2.1	40.0
m+p-Ethyltoluene					40.0
o-Ethyltoluene					40.0
Methyl Acetate	0.901	0.605		32.8	40.0
Methyl cyclohexane	0.310	0.254		18.1	40.0
1,2-Dibromo-3-chloropropane	0.110	0.100		9.1	40.0
Cyclohexene					40.0
1,2-Dichlorotrifluoroethane					40.0
n-Propanol					40.0
3-Methyl-1-Pentyn-3-ol					40.0
Propylene Oxide					40.0
Ethanol					40.0
Chlorotrifluoroethane					40.0
Dichlorofluoromethane					40.0
Ethylene Oxide					40.0
Methyl Formate					40.0
Isobutyraldehyde					40.0
Amyl Acetate					40.0
1,2,3-Trichloropropane	0.145	0.140		3.4	40.0
Chlorodifluoromethane					40.0
1,3-Dichloropropane	0.646	0.648		-0.3	40.0
Dibromomethane	0.344	0.298		13.4	40.0
1-Propene					40.0
2-Chloropropane					40.0
1-Chloropropane					40.0

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VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS1 Calibration Date: 08/23/05 Time: 1207

Lab File ID: A52036 Init. Calib. Date(s): 08/16/05 08/17/05

Heated Purge: (Y/N) N Init. Calib. Times: 2259 0317

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
tert-Amymethyl Ether					40.0
1,2-Dichloroethane-d4 (SUR)	0.053	0.050		5.7	
Toluene-d8 (SUR)	1.136	1.278		-12.5	
Bromofluorobenzene (SUR)	0.527	0.539		-2.3	

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Surrogate Compound Recovery Summary

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 624

Matrix: WATER Level: LOW Lab Job No: E123

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
01	AV235A	107	105	96		0
02	662402	106	100	96		0
03	662403	104	101	98		0
04	662404	104	101	94		0
05	662405	105	100	98		0
06	662406	99	92	92		0
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		QC LIMITS
S1	= 1,2-Dichloroethane-d4	(69-131)
S2	= Toluene-d8	(60-131)
S3	= Bromofluorobenzene	(67-128)

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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Spike Recovery Summary

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 662414

MS Sample from Lab Job No: E128

QA Batch: 9305

Compound	MS % REC.	BS % REC.	LIMITS
Chloromethane	112	100	0-273
Bromomethane	85	80	0-242
Vinyl Chloride	115	105	0-251
Chloroethane	110	100	14-230
Methylene Chloride	110	100	0-221
Trichlorofluoromethane	100	95	17-181
1,1-Dichloroethene	105	105	0-234
1,1-Dichloroethane	100	90	59-155
trans-1,2-Dichloroethene	100	95	54-156
Chloroform	100	90	51-138
1,2-Dichloroethane	105	95	49-155
1,1,1-Trichloroethane	105	105	52-162
Carbon Tetrachloride	100	100	70-140
Bromodichloromethane	110	100	35-155
1,2-Dichloropropane	110	95	0-210
cis-1,3-Dichloropropene	105	90	0-227
Trichloroethene	110	100	71-157
Dibromochloromethane	110	105	53-149
1,1,2-Trichloroethane	115	110	52-150
Benzene	110	100	37-151
trans-1,3-Dichloropropene	105	105	17-183
2-Chloroethyl Vinyl Ether	0	80	0-305
Bromoform	105	105	45-169
Tetrachloroethene	120	125	64-148
1,1,2,2-Tetrachloroethane	115	105	46-157
Toluene	110	115	47-150
Chlorobenzene	120	115	37-160
Ethylbenzene	115	120	37-162
1,3-Dichlorobenzene	120	120	59-156
1,4-Dichlorobenzene	110	120	18-190

* Values outside of QC limits

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 662414

MS Sample from Lab Job No: E128

QA Batch: 9305

Compound	MS % REC.	BS % REC.	LIMITS
1,2-Dichlorobenzene	120	115	18-190

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS:

Internal Standard Area and RT Summary

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): A52036 Date Analyzed: 08/23/05

Instrument ID: VOAMS1 Time Analyzed: 1207

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	520857	7.59	2519033	9.06	1669979	12.71
	UPPER LIMIT	1041714	8.09	5038066	9.56	3339958	13.21
	LOWER LIMIT	260428	7.09	1259516	8.56	834990	12.21
	LABORATORY SAMPLE NO.						
01	AV235A	452448	7.59	1944979	9.06	1375897	12.72
02	662402	403911	7.60	1763815	9.07	1292581	12.71
03	662403	398318	7.60	1711214	9.09	1229350	12.71
04	662404	401252	7.60	1638321	9.08	1247437	12.72
05	662405	395346	7.60	1686916	9.07	1248895	12.71
06	662406	385845	7.60	1615077	9.07	1195390	12.71
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

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