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ANALYTICAL REPORT

REVISED

PROJECT NO. 142541

Focus/US Filter Westates 0030

Lot #: H6D030169

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May 15, 2006

ANALYTICAL METHODS SUMMARY

H6D030169

PARAMETER	ANALYTICAL METHOD
Volatile Organic Sampling Train (VOST)	SW846 VOST
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030169

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2G87	003	G-2910-R1-VOST PAIR #2 TENAX	03/28/06	
H2G89	004	G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL	03/28/06	
H2G9A	005	G-2912-R1-VOST PAIR #3 TENAX	03/28/06	
H2G9D	006	G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL	03/28/06	
H2G9F	007	G-2914-R1-VOST PAIR #4 TENAX	03/28/06	
H2G9G	008	G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL	03/28/06	
H2G9H	009	G-2916-R1-VOST CONDENSATE	03/28/06	
H2G9J	010	G-2917-R1-VOST TENAX FB	03/28/06	
H2G9L	011	G-2918-R1-VOST TENAX/CHARCOAL FB	03/28/06	
H2G9W	014	G-3008-R2-VOST PAIR #2 TENAX	03/29/06	
H2G91	015	G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL	03/29/06	
H2G97	016	G-3010-R2-VOST PAIR #3 TENAX	03/29/06	
H2G98	017	G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL	03/29/06	
H2G99	018	G-3012-R2-VOST PAIR #4 TENAX	03/29/06	
H2HAA	019	G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL	03/29/06	
H2HAD	020	G-3014-R2-VOST CONDENSATE	03/29/06	
H2HA7	021	G-3015-R2-VOST TENAX FB	03/29/06	
H2HCA	022	G-3016-R2-VOST TENAX/CHARCOAL FB	03/29/06	
H2HCD	023	G-3089-R3-VOST PAIR #1 TENAX	03/30/06	
H2HCF	024	G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL	03/30/06	
H2HCG	025	G-3091-R3-VOST PAIR #2 TENAX	03/30/06	
H2HCL	026	G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL	03/30/06	
H2HCM	027	G-3093-R3-VOST PAIR #3 TENAX	03/30/06	
H2HCN	028	G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL	03/30/06	
H2HCP	029	G-3095-R3-VOST PAIR #4 TENAX	03/30/06	
H2HCQ	030	G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL	03/30/06	
H2HCR	031	G-3097-R3-VOST CONDENSATE	03/30/06	
H2HCV	032	G-3098-R3-VOST TENAX FB	03/30/06	
H2HCW	033	G-3099-R3-VOST TENAX/CHARCOAL FB	03/30/06	
H2HCX	034	G-3100-R3-VOST TENAX TB	03/30/06	
H2HC0	035	G-3101-R3-VOST TENAX/CHARCOAL TB	03/30/06	
H2HC1	036	G-3102-R3-VOST DI WATER TB	03/28/06	
H2HC2	037	A-5363 MEDIA CHECK TENAX	03/28/06	
H2HC4	038	A-5364 MEDIA CHECK TENAX/CHARCOAL	03/28/06	
H2KHL	039	AUDIT VOST #1	03/28/06	
H2KHR	040	AUDIT VOST #2	03/28/06	

(Continued on next page)

SAMPLE SUMMARY

H6D030169

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2KHV	041	AUDIT VOST #3	03/28/06	
H2KHW	042	AUDIT VOST #4	03/28/06	
H2KHX	043	AUDIT VOST #5	03/28/06	
H2KH1	044	AUDIT VOST #6	03/28/06	
H2KH4	045	A-5388 MEDIA CHECK	03/28/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered by the field test team.

The "Relinquished by" field on the chain of custody documentation was not signed by the field sampling team members. Samples were hand delivered by the sampling team, but custody was not relinquished.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Volatile Organic Sampling Train (VOST) Preparation and Analysis

VOST tubes and condensate samples were analyzed for the volatile organic target analytes by purge and trap GCMS using STL Knoxville standard operating procedures KNOX-MS-0011 and KNOX-MS-0015, based on the following methods:

- SW-846 5041A, "Analysis for Desorption of Sorbent Cartridges from Volatile Organic Sampling Train (VOST)"
- SW-846 8260B, "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)"

Samples were received as SW-846 Method 0030 trains. Each Tenax and Tenax/charcoal tube is separately prepared by spiking a known amount of surrogate onto the media using a flash vaporization device. Volatile compounds are introduced into the gas chromatograph by thermal

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desorption of the analytes from the VOST tube using a clamshell oven and a purge and trap system of introduction. VOST condensates are spiked with surrogates and purged directly to the GC column. The components are separated using gas chromatography and detected using a mass spectrometer, which collectively provide both qualitative and quantitative information.

Sample final results were calculated using the following equations:

$$\text{VOST Result, ug} = (On\,column\,concentration, ug / L) * (Purge\ Volume, L)$$

$$\text{Condensate Result, ug/L} = (On\,column\,concentration, ug / L) * Dilution\ Factor$$

Batch matrix spike/matrix spike duplicate recoveries for the condensates were acceptable for all analytes except benzene, toluene and chlorobenzene. The matrix spike/matrix spike duplicate results are attributed to matrix effects. The laboratory control sample showed acceptable results indicating that the analysis was in control.

The following samples gave results for chlorobenzene and/or tetrachloroethene that were above the original laboratory calibration range, and flagged with an "E" qualifier:

- G-2910-R1-VOST Pair #2 Tenax
- G-2912-R1-VOST Pair #3 Tenax
- G-3089-R3-VOST Pair #1 Tenax
- G-3091-R3-VOST Pair #2 Tenax
- G-3093-R3-VOST Pair #3 Tenax

Reanalysis at a dilution was not possible since the entire sample is consumed during these types of analyses.

In order to obtain results for which precision and accuracy assessment can be measured for the "E" qualified values, additional procedures using an extended calibration range were undertaken. New calibration standards for chlorobenzene and tetrachloroethene were analyzed on 5/3/06 on the same associated instrument at concentrations of 10, 80, 160, 240 and 320 µg/L. These concentrations in the standard correspond to total amounts of the analytes of 0.25, 2, 4, 6 and 8 µg. The high standard exhibited some saturation for chlorobenzene at the highest values, but was used in the curve, because the loss of response due to saturation for this analyte is small and

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inconsequential to the quantitation. Subsequently, new average response factors for chlorobenzene and tetrachloroethene were calculated for the calibration range of 0.25 to 8 µg on the VOST tubes. The %RSD values calculated for the new response factors were acceptable for both compounds.

The new calibration data was not simply appended to the original curve. Instead, a new calibration curve was used to completely re-quantify the results and a percent difference was measured to assess the drift of response factors for the compounds analyzed on the different days.

As stated above, the following samples gave results for chlorobenzene and/or tetrachloroethene that were originally above the laboratory calibration range, and flagged with an "E" qualifier:

- G-2910-R1-VOST Pair #2 Tenax
- G-2912-R1-VOST Pair #3 Tenax
- G-3089-R3-VOST Pair #1 Tenax
- G-3091-R3-VOST Pair #2 Tenax
- G-3093-R3-VOST Pair #3 Tenax

These samples and the associated daily calibration check standard that were analyzed with these samples on 4/7/06 were re-quantified relative to the new extended calibration run on 5/3/06 curve. The re-quantified results are presented as a separate, additional report. The original data is also included which displays the "E" flagged data for comparison.

Note that the original initial calibration was still valid and being used for other analyses when the extended initial calibration curve was analyzed. Therefore, no major maintenance of the instrument had been performed during the time span from the initial calibration performed on 2/15/06 and the extended range calibration that was performed on 5/3/06. The %D (drift measurement) of the analytes based on the daily standard relative to either initial calibration curve is within the specifications of the method. Therefore, both calibration curves represent acceptable and compliant performance of the instrument for the entire analytical time span, inclusive of the day that the sample data were collected. The extended-range calibration bracketed the data within the range of the calibration, even though the new calibration was performed after the samples were analyzed, representing an external calibration method which is not the normal way to execute the referenced analytical method (SW-8260B).

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The exact response of any GC/MS instrument normally varies from day to day. This is the reason that daily calibration verification standards are analyzed, which is to judge whether the drift of the instrument calibration is significant in magnitude or is normal such that the curve is allowed to be in continued use. For either of these initial calibration curves, the drift (or change in response factor between the calibration used for quantification and the daily calibration verification standard) is within specifications of the method. The new, extended range calibration curve indicates linearity of the response to a level that is inclusive of the response of chlorobenzene and tetrachloroethene in any of these samples. The new response factors are somewhat higher (12% for tetrachloroethene and 10% for chlorobenzene) resulting in recalculated results approximately 10% lower than the original results, as shown by the following table.

STL Lot-Sample Number	STL Work Order Number	Client Sample ID	Target Analyte	Original Result (µg)	Recalculated Result (µg)
H6D030169-003	H2G87	G-2910-R1-VOST PAIR #2 TENAX	Chlorobenzene Tetrachloroethene	5.8 E 4.7 E	5.2 4.2
H6D030169-005	H2G9A	G-2912-R1-VOST PAIR #3 TENAX	Chlorobenzene	3.5 E	3.2
H6D030169-023	H2HCD	G-3089-R3-VOST PAIR #1 TENAX	Chlorobenzene	2.3 E	2.1
H6D030169-025	H2HCG	G-3091-R3-VOST PAIR #2 TENAX	Chlorobenzene Tetrachloroethene	3.4 E 2.4 E	3.1 2.2
H6D030169-027	H2HCM	G-2910-R1-VOST PAIR #2 TENAX	Chlorobenzene	3.1 E	2.8

VOST Tenax tubes were spiked with 6 µg of chlorobenzene and tetrachloroethene and analyzed on 5/9/06. VOST Tenax tubes were spiked with 12 µg of chlorobenzene and tetrachloroethene and analyzed on 5/3/06. The tubes were analyzed to show percent recovery results for a high concentration spike and spikes comparable to the sample levels observed. These analyses were quantified against the new calibration curve as well, and is presented in a table below, with the raw data placed in the miscellaneous data section of the data package.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

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Spiked Tenax Tube Recovery

Target Analyte	Spiked Amount (µg)	Recovered Amount (µg)	Percent Recovery (%)
Chlorobenzene	6.0	3.68	61%
Tetrachloroethene	6.0	4.78	80%
Chlorobenzene	12	7.60	63%
Tetrachloroethene	12	9.66	80%

In conclusion, the re-run data presents defensibility for the data beyond the original calibration points. The data demonstrate that linearity is reasonably extended beyond the top calibration point of the method and includes all the "E" values reported in the original data set. There is no systematic low bias observed for this data and no obvious measurement error. The sample concentrations obtained are defensible and should be acceptable for use for their intended purpose.

One surrogate recovery for sample G-3095-R3-VOST Pair #4 Tenax was outside QC limits. However, reanalysis of the sample was not possible since the entire sample was consumed during analysis. The archive pair G-3089-R3-VOST Pair #1 Tenax was analyzed which confirmed sample matrix effects.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 **Work Order #...:** H2G871AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0092 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.030**	**0.010**	**ug**	**0.0016**
Bromoform	**0.13**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0078 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0037 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**5.8 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.086**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.020**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.0087 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 **Work Order #...:** H2G871AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.069**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	**0.0028 J**	**0.010**	**ug**	**0.0010**
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**4.7 E**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.078**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0081 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0049 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0049 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(50 - 134)
1,2-Dichloroethane-d4	91	(50 - 134)
Toluene-d8	76	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-003 **Work Order #:** H2G871AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 Work Order #...: H2G872AA Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06
Prep Date.....: 04/07/06 Analysis Date..: 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 Method.....: SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	5.2	0.010	ug	0.0013
Tetrachloroethene	4.2	0.010	ug	0.0021

STL Knoxville - ACS

Client Sample ID: G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-004 **Work Order #...:** H2G891AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.098 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0047 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.020**	**0.010**	**ug**	**0.0016**
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.042 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0013 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0090 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.018**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0030 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.40**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0081 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-004 **Work Order #...:** H2G891AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.015 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.033**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0067 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.015**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(50 - 134)
1,2-Dichloroethane-d4	107	(50 - 134)
Toluene-d8	99	(57 - 127)
Bromofluorobenzene	96	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-004 **Work Order #:** H2G891AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Unknown		0.068 NJ M	9.3166	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.45**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.049**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.023**	**0.010**	**ug**	**0.0016**
Bromoform	**0.091**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0076 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0034 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.5 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.063**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.016**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.026**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.68**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.088**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0080 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0046 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	70	(57 - 127)
Bromofluorobenzene	57	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-005 **Work Order #:** H2G9A1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.087 NJ M	10.088	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A2AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**3.2**	**0.010**	**ug**	**0.0013**

STL Knoxville - ACS

Client Sample ID: G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-006 **Work Order #...:** H2G9D1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0062 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.024 J**	**0.025**	**ug**	**0.0066**
Bromomethane	**0.043 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.056**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0023 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.51**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.010 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-006 **Work Order #...:** H2G9D1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.016**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0056 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.012**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	118	(50 - 134)
1,2-Dichloroethane-d4	113	(50 - 134)
Toluene-d8	106	(57 - 127)
Bromofluorobenzene	97	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-006 **Work Order #:** H2G9D1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Unknown		0.051 NJ M	9.3163	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-007 **Work Order #...:** H2G9F1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.0079 J**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0017 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.031**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.050**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	**0.0029 J**	**0.010**	**ug**	**0.0025**
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-007 **Work Order #...:** H2G9F1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	**0.0049 J**	**0.010**	**ug**	**0.0013**
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.11**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.011 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0059 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.028**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.032**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	**0.031 J**	**0.050**	**ug**	**0.0049**
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.015 J**	**0.020**	**ug**	**0.0034**
o-Xylene	**0.0036 J**	**0.010**	**ug**	**0.0017**
Xylenes (total)	**0.019 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	75	(57 - 127)
Bromofluorobenzene	65	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-007 **Work Order #:** H2G9F1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.078 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-008 **Work Order #...:** H2G9G1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0013 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0042 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.30**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.19**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-008 **Work Order #...:** H2G9G1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.036**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.011**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	**0.021 J**	**0.050**	**ug**	**0.0049**
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	**0.0065 J**	**0.010**	**ug**	**0.0032**
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(50 - 134)
1,2-Dichloroethane-d4	110	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	86	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-008 **Work Order #:** H2G9G1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.2**	**1.0**	**ug/L**	**0.10**
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.0**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**6.1**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.14 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.3**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.19 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.57 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	106	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-009 **Work Order #:** H2G9H1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AC **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**18**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	116	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

STL Knoxville - ACS

Client Sample ID: G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-010 **Work Order #...:** H2G9J1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.099 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-010 **Work Order #...:** H2G9J1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.013 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	79	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-010 **Work Order #:** H2G9J1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-011 **Work Order #...:** H2G9L1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.0053 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-011 **Work Order #...:** H2G9L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	118	(50 - 134)
1,2-Dichloroethane-d4	112	(50 - 134)
Toluene-d8	104	(57 - 127)
Bromofluorobenzene	93	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-011 **Work Order #:** H2G9L1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-014 **Work Order #...:** H2G9W1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.60**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0062 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.040**	**0.010**	**ug**	**0.0016**
Bromoform	**0.17**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0095 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0049 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**1.6**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.12**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.033**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-014 **Work Order #...:** H2G9W1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.040**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.23**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.17**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0053 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0073 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0073 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	71	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-014 **Work Order #:** H2G9W1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-015 **Work Order #...:** H2G911AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.097 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.028 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0028 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0019 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.061**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.018 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-015 **Work Order #...:** H2G911AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.019 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0034 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0093 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	88	(57 - 127)
Bromofluorobenzene	90	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-015 **Work Order #:** H2G911AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-016 **Work Order #...:** H2G971AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0094 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.033**	**0.010**	**ug**	**0.0016**
Bromoform	**0.14**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0079 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0045 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.65**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.096**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.022**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-016 **Work Order #...:** H2G971AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.018 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.087**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.013**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0054 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0054 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(50 - 134)
1,2-Dichloroethane-d4	75	(50 - 134)
Toluene-d8	79	(57 - 127)
Bromofluorobenzene	67	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-016 **Work Order #:** H2G971AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.040 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.32**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0063 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0028 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.011**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-017 **Work Order #:** H2G981AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.35**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.028**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.039**	**0.010**	**ug**	**0.0016**
Bromoform	**0.17**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.014**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0049 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.0**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.11**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	**0.0023 J**	**0.010**	**ug**	**0.0023**
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.010 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.021**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0061 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0068 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0068 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	68	(50 - 134)
Toluene-d8	66	(57 - 127)
Bromofluorobenzene	54	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-018 **Work Order #:** H2G991AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.024 J**	**0.025**	**ug**	**0.0066**
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0031 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.012**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.018 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.010 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0074 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-019 **Work Order #:** H2HAA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.12 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.15 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-020 **Work Order #:** H2HAD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.55 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	115	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.089 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0026 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	92	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-021 **Work Order #:** H2HA71AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.096 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.18**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.016 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	87	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-022 **Work Order #:** H2HCA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.16**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.010**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.038**	**0.010**	**ug**	**0.0016**
Bromoform	**0.12**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.011**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0038 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.3 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	**0.0018 J**	**0.010**	**ug**	**0.0013**
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.16**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.23**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.068**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0069 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0091 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.010 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	69	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-023 **Work Order #:** H2HCD1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD2AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**2.1**	**0.010**	**ug**	**0.0013**

STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0035 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0014 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.049**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.25**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0077 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.023 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0032 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0040 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.012**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	70	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-024 **Work Order #:** H2HCF1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Nonane	111-84-2	0.026 NJ M	7.8805	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0083 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.041**	**0.010**	**ug**	**0.0016**
Bromoform	**0.16**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.013**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0039 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.4 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.12**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.028**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.36**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.033**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**2.4 E**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.37**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0057 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0065 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0065 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(50 - 134)
1,2-Dichloroethane-d4	76	(50 - 134)
Toluene-d8	73	(57 - 127)
Bromofluorobenzene	59	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-025 **Work Order #:** H2HCG1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.074 NJ M	10.085	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 Work Order #...: H2HCG2AA Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received..: 04/02/06
Prep Date.....: 04/07/06 Analysis Date..: 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 Method.....: SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	3.1	0.010	ug	0.0013
Tetrachloroethene	2.2	0.010	ug	0.0021

STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026 **Work Order #...:** H2HCL1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0021 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0090 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.083**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0076 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026 **Work Order #...:** H2HCL1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.12**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0043 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.016**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	86	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-026 **Work Order #:** H2HCL1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.54**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0054 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.036**	**0.010**	**ug**	**0.0016**
Bromoform	**0.15**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0096 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0031 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.1 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.020**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.090**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.16**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**1.1**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.12**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0061 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0061 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	77	(57 - 127)
Bromofluorobenzene	63	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-027 **Work Order #:** H2HCM1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.063 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027
Date Sampled...: 03/30/06
Prep Date.....: 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1

Work Order #...: H2HCM2AA
Date Received..: 04/02/06
Analysis Date..: 04/07/06

Method.....: SW846 VOST

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	2.8	0.010	ug	0.0013

STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0032 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0048 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0044 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.021 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0064 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.071**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0097 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0072 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	84	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-028 **Work Order #:** H2HCN1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.37**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0069 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.040**	**0.010**	**ug**	**0.0016**
Bromoform	**0.13**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0037 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**1.4**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.025**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.26**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.069**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.36**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.19**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0049 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0049 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	64	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-029 **Work Order #:** H2HCP1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.041 NJ M	10.088	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.088 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0027 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0077 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.051**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0099 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.035**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0024 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0025 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0067 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(50 - 134)
1,2-Dichloroethane-d4	107	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	92	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-030 **Work Order #:** H2HCQ1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**5.9 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.11 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.56 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.2 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.12 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-031 **Work Order #:** H2HCR1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.3 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.3**	**1.0**	**ug/L**	**0.10**
Bromoform	**0.84 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	**0.22 J**	**1.0**	**ug/L**	**0.10**
Chlorodibromomethane	**1.1**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**6.3**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.76 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	110	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	95	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-032 **Work Order #:** H2HCV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.016 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	81	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-033 **Work Order #:** H2HCW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.092 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.023 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.013 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	96	(57 - 127)
Bromofluorobenzene	82	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #: H6D030169-034 **Work Order #:** H2HCX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.093 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.029**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	78	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #: H6D030169-035 **Work Order #:** H2HC01AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-036 **Work Order #...:** H2HC11AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.1 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.7**	**1.0**	**ug/L**	**0.10**
Bromoform	**0.86 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.1**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**8.0**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-036 **Work Order #...:** H2HC11AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.2 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.91 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #: H6D030169-036 **Work Order #:** H2HC11AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: A-5363 MEDIA CHECK TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-037 **Work Order #...:** H2HC21AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(50 - 134)
1,2-Dichloroethane-d4	96	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5363 MEDIA CHECK TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-037 **Work Order #:** H2HC21AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-038 **Work Order #...:** H2HC41AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.029 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.011**	**0.010**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-038 **Work Order #...:** H2HC41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-038 **Work Order #:** H2HC41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #...: H6D030169-039 **Work Order #...:** H2KHL1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.31**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.054**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.082 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.015**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.041**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.065**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #...: H6D030169-039 **Work Order #...:** H2KHL1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0032 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	88	(50 - 134)
Toluene-d8	85	(57 - 127)
Bromofluorobenzene	77	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #: H6D030169-039 **Work Order #:** H2KHL1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #...: H6D030169-040 **Work Order #...:** H2KHR1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.39**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.058**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.091 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.046**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.074**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #...: H6D030169-040 **Work Order #...:** H2KHR1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.077**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0035 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	87	(50 - 134)
Toluene-d8	88	(57 - 127)
Bromofluorobenzene	78	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #: H6D030169-040 **Work Order #:** H2KHR1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #...: H6D030169-041 **Work Order #...:** H2KHV1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.39**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.057**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.084 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.045**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0013 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.069**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #...: H6D030169-041 **Work Order #...:** H2KHV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.072**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	77	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	82	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #: H6D030169-041 **Work Order #:** H2KHV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #...: H6D030169-042 **Work Order #...:** H2KHW1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.26**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.058**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.068 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.046**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0016 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.072**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #...: H6D030169-042 **Work Order #...:** H2KHW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(50 - 134)
1,2-Dichloroethane-d4	82	(50 - 134)
Toluene-d8	87	(57 - 127)
Bromofluorobenzene	76	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #: H6D030169-042 **Work Order #:** H2KHW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #...: H6D030169-043 **Work Order #...:** H2KHX1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.18**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.063**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.046 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.015**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.047**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0029 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.076**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #...: H6D030169-043 **Work Order #...:** H2KHX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.076**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.034 J**	**0.10**	**ug**	**0.031**
Toluene	**0.0030 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(50 - 134)
1,2-Dichloroethane-d4	87	(50 - 134)
Toluene-d8	76	(57 - 127)
Bromofluorobenzene	58	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #: H6D030169-043 **Work Order #:** H2KHX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #...: H6D030169-044 **Work Order #...:** H2KH11AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.059**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.049**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0044 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.074**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #...: H6D030169-044 **Work Order #...:** H2KH11AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0034 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	85	(50 - 134)
Toluene-d8	87	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #: H6D030169-044 **Work Order #:** H2KH11AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #...: H6D030169-045 **Work Order #...:** H2KH41AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.098 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0078 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.010	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #...: H6D030169-045 **Work Order #...:** H2KH41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	102	(57 - 127)
Bromofluorobenzene	90	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #: H6D030169-045 **Work Order #:** H2KH41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER
MB Lot-Sample #: H6D050000-253

Prep Date.....: 04/05/06
Analysis Date..: 04/05/06 **Prep Batch #...:** 6095253
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	2.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	**0.55 J**	**2.0**	**ug/L**	**SW846 8260B**
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	4.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	**0.26 J**	**1.0**	**ug/L**	**SW846 8260B**
1,2,4-Trichloro-benzene	**0.15 J**	**1.0**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	105	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D050000-253 B **Work Order #:** H2MQQ1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	47 a	(49 - 141)	SW846 8260B
Benzene	**87**	**(80 - 121)**	**SW846 8260B**
Bromobenzene	94	(80 - 122)	SW846 8260B
Bromochloromethane	97	(75 - 124)	SW846 8260B
Bromodichloromethane	91	(73 - 127)	SW846 8260B
Bromoform	96	(63 - 141)	SW846 8260B
Bromomethane	96	(44 - 157)	SW846 8260B
2-Butanone	86	(61 - 139)	SW846 8260B
n-Butylbenzene	93	(62 - 128)	SW846 8260B
sec-Butylbenzene	94	(67 - 127)	SW846 8260B
tert-Butylbenzene	96	(68 - 123)	SW846 8260B
Carbon disulfide	89	(71 - 126)	SW846 8260B
Carbon tetrachloride	82	(66 - 133)	SW846 8260B
Chlorobenzene	**94**	**(80 - 121)**	**SW846 8260B**
Chlorodibromomethane	88	(71 - 132)	SW846 8260B
Chloroethane	99	(61 - 151)	SW846 8260B
Chloroform	93	(76 - 120)	SW846 8260B
Chloromethane	101	(56 - 140)	SW846 8260B
2-Chlorotoluene	90	(68 - 123)	SW846 8260B
4-Chlorotoluene	93	(68 - 125)	SW846 8260B
1,2-Dibromo-3-chloro-propane	83	(51 - 143)	SW846 8260B
1,2-Dibromoethane	90	(78 - 120)	SW846 8260B
Dibromomethane	91	(72 - 125)	SW846 8260B
1,2-Dichlorobenzene	91	(76 - 120)	SW846 8260B
1,3-Dichlorobenzene	92	(77 - 120)	SW846 8260B
1,4-Dichlorobenzene	92	(75 - 120)	SW846 8260B
Dichlorodifluoromethane	95	(48 - 147)	SW846 8260B
1,1-Dichloroethane	93	(70 - 127)	SW846 8260B
1,2-Dichloroethane	93	(71 - 125)	SW846 8260B
cis-1,2-Dichloroethene	91	(76 - 123)	SW846 8260B
trans-1,2-Dichloroethene	93	(75 - 124)	SW846 8260B
1,1-Dichloroethene	**100**	**(70 - 128)**	**SW846 8260B**
1,2-Dichloropropane	93	(77 - 122)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,3-Dichloropropane	90	(78 - 120)	SW846 8260B
2,2-Dichloropropane	89	(48 - 149)	SW846 8260B
cis-1,3-Dichloropropene	90	(69 - 128)	SW846 8260B
trans-1,3-Dichloropropene	84	(61 - 132)	SW846 8260B
1,1-Dichloropropene	91	(78 - 122)	SW846 8260B
Ethylbenzene	94	(79 - 124)	SW846 8260B
Hexachlorobutadiene	98	(67 - 123)	SW846 8260B
2-Hexanone	93	(63 - 132)	SW846 8260B
Isopropylbenzene	96	(77 - 126)	SW846 8260B
p-Isopropyltoluene	96	(67 - 125)	SW846 8260B
Methylene chloride	88	(59 - 131)	SW846 8260B
4-Methyl-2-pentanone	91	(64 - 133)	SW846 8260B
Naphthalene	86	(48 - 141)	SW846 8260B
n-Propylbenzene	95	(67 - 128)	SW846 8260B
Styrene	93	(76 - 127)	SW846 8260B
1,1,1,2-Tetrachloroethane	84	(75 - 127)	SW846 8260B
1,1,2,2-Tetrachloroethane	94	(69 - 128)	SW846 8260B
Tetrachloroethene	94	(79 - 126)	SW846 8260B
Toluene	**93**	**(77 - 124)**	**SW846 8260B**
1,2,3-Trichlorobenzene	89	(63 - 127)	SW846 8260B
1,2,4-Trichloro-benzene	88	(64 - 126)	SW846 8260B
1,1,1-Trichloroethane	96	(71 - 125)	SW846 8260B
1,1,2-Trichloroethane	88	(74 - 120)	SW846 8260B
Trichloroethene	**96**	**(80 - 121)**	**SW846 8260B**
Trichlorofluoromethane	101	(67 - 143)	SW846 8260B
1,2,3-Trichloropropane	88	(67 - 124)	SW846 8260B
1,2,4-Trimethylbenzene	92	(69 - 121)	SW846 8260B
1,3,5-Trimethylbenzene	95	(71 - 125)	SW846 8260B
Vinyl chloride	102	(72 - 137)	SW846 8260B
m-Xylene & p-Xylene	98	(71 - 134)	SW846 8260B
o-Xylene	96	(76 - 126)	SW846 8260B
Xylenes (total)	97	(73 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	40.0	18.9 a	ug/L	47	SW846 8260B
Benzene	**10.0**	**8.71**	**ug/L**	**87**	**SW846 8260B**
Bromobenzene	10.0	9.44	ug/L	94	SW846 8260B
Bromochloromethane	10.0	9.75	ug/L	97	SW846 8260B
Bromodichloromethane	10.0	9.08	ug/L	91	SW846 8260B
Bromoform	10.0	9.64	ug/L	96	SW846 8260B
Bromomethane	10.0	9.58	ug/L	96	SW846 8260B
2-Butanone	40.0	34.5	ug/L	86	SW846 8260B
n-Butylbenzene	10.0	9.32	ug/L	93	SW846 8260B
sec-Butylbenzene	10.0	9.41	ug/L	94	SW846 8260B
tert-Butylbenzene	10.0	9.59	ug/L	96	SW846 8260B
Carbon disulfide	10.0	8.90	ug/L	89	SW846 8260B
Carbon tetrachloride	10.0	8.18	ug/L	82	SW846 8260B
Chlorobenzene	**10.0**	**9.44**	**ug/L**	**94**	**SW846 8260B**
Chlorodibromomethane	10.0	8.82	ug/L	88	SW846 8260B
Chloroethane	10.0	9.89	ug/L	99	SW846 8260B
Chloroform	10.0	9.30	ug/L	93	SW846 8260B
Chloromethane	10.0	10.1	ug/L	101	SW846 8260B
2-Chlorotoluene	10.0	8.98	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.35	ug/L	93	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	8.34	ug/L	83	SW846 8260B
1,2-Dibromoethane	10.0	9.00	ug/L	90	SW846 8260B
Dibromomethane	10.0	9.12	ug/L	91	SW846 8260B
1,2-Dichlorobenzene	10.0	9.14	ug/L	91	SW846 8260B
1,3-Dichlorobenzene	10.0	9.19	ug/L	92	SW846 8260B
1,4-Dichlorobenzene	10.0	9.24	ug/L	92	SW846 8260B
Dichlorodifluoromethane	10.0	9.50	ug/L	95	SW846 8260B
1,1-Dichloroethane	10.0	9.28	ug/L	93	SW846 8260B
1,2-Dichloroethane	10.0	9.27	ug/L	93	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.13	ug/L	91	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.30	ug/L	93	SW846 8260B
1,1-Dichloroethene	**10.0**	**10.0**	**ug/L**	**100**	**SW846 8260B**
1,2-Dichloropropane	10.0	9.25	ug/L	93	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,3-Dichloropropane	10.0	8.98	ug/L	90	SW846 8260B
2,2-Dichloropropane	10.0	8.90	ug/L	89	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.01	ug/L	90	SW846 8260B
trans-1,3-Dichloropropene	10.0	8.38	ug/L	84	SW846 8260B
1,1-Dichloropropene	10.0	9.08	ug/L	91	SW846 8260B
Ethylbenzene	10.0	9.45	ug/L	94	SW846 8260B
Hexachlorobutadiene	10.0	9.81	ug/L	98	SW846 8260B
2-Hexanone	40.0	37.3	ug/L	93	SW846 8260B
Isopropylbenzene	10.0	9.58	ug/L	96	SW846 8260B
p-Isopropyltoluene	10.0	9.57	ug/L	96	SW846 8260B
Methylene chloride	10.0	8.77	ug/L	88	SW846 8260B
4-Methyl-2-pentanone	40.0	36.4	ug/L	91	SW846 8260B
Naphthalene	10.0	8.59	ug/L	86	SW846 8260B
n-Propylbenzene	10.0	9.46	ug/L	95	SW846 8260B
Styrene	10.0	9.26	ug/L	93	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	8.41	ug/L	84	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.38	ug/L	94	SW846 8260B
Tetrachloroethene	10.0	9.37	ug/L	94	SW846 8260B
Toluene	**10.0**	**9.29**	**ug/L**	**93**	**SW846 8260B**
1,2,3-Trichlorobenzene	10.0	8.87	ug/L	89	SW846 8260B
1,2,4-Trichloro-benzene	10.0	8.83	ug/L	88	SW846 8260B
1,1,1-Trichloroethane	10.0	9.64	ug/L	96	SW846 8260B
1,1,2-Trichloroethane	10.0	8.83	ug/L	88	SW846 8260B
Trichloroethene	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
Trichlorofluoromethane	10.0	10.1	ug/L	101	SW846 8260B
1,2,3-Trichloropropane	10.0	8.77	ug/L	88	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.17	ug/L	92	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.55	ug/L	95	SW846 8260B
Vinyl chloride	10.0	10.2	ug/L	102	SW846 8260B
m-Xylene & p-Xylene	20.0	19.5	ug/L	98	SW846 8260B
o-Xylene	10.0	9.58	ug/L	96	SW846 8260B
Xylenes (total)	30.0	29.1	ug/L	97	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	78	(43 - 141)			SW846 8260B
	85	(43 - 141)	8.9	(0-50)	SW846 8260B
Acrylonitrile	103	(50 - 130)			SW846 8260B
	97	(50 - 130)	5.2	(0-30)	SW846 8260B
Benzene	**80**	**(73 - 125)**			**SW846 8260B**
	67 a	**(73 - 125)**	**18**	**(0-20)**	**SW846 8260B**
Bromobenzene	60 a	(77 - 122)			SW846 8260B
	43 a,p	(77 - 122)	33	(0-20)	SW846 8260B
Bromochloromethane	100	(73 - 124)			SW846 8260B
	90	(73 - 124)	10	(0-21)	SW846 8260B
Bromodichloromethane	93	(57 - 129)			SW846 8260B
	88	(57 - 129)	5.9	(0-22)	SW846 8260B
Bromoform	83	(49 - 141)			SW846 8260B
	82	(49 - 141)	0.43	(0-27)	SW846 8260B
Bromomethane	90	(30 - 168)			SW846 8260B
	89	(30 - 168)	1.7	(0-29)	SW846 8260B
2-Butanone	96	(50 - 143)			SW846 8260B
	88	(50 - 143)	8.5	(0-37)	SW846 8260B
n-Butylbenzene	23 a	(48 - 135)			SW846 8260B
	13 a,p	(48 - 135)	57	(0-21)	SW846 8260B
sec-Butylbenzene	41 a	(52 - 135)			SW846 8260B
	26 a,p	(52 - 135)	44	(0-20)	SW846 8260B
tert-Butylbenzene	56	(54 - 130)			SW846 8260B
	39 a,p	(54 - 130)	36	(0-20)	SW846 8260B
Carbon disulfide	84	(60 - 132)			SW846 8260B
	75	(60 - 132)	11	(0-20)	SW846 8260B
Carbon tetrachloride	68	(53 - 133)			SW846 8260B
	69	(53 - 133)	1.4	(0-29)	SW846 8260B
Chlorobenzene	**66 a**	**(71 - 125)**			**SW846 8260B**
	48 a,p	**(71 - 125)**	**32**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	73	(61 - 132)			SW846 8260B
	76	(61 - 132)	3.7	(0-27)	SW846 8260B
Chloroethane	106	(61 - 151)			SW846 8260B
	98	(61 - 151)	8.2	(0-20)	SW846 8260B
Chloroform	97	(66 - 122)			SW846 8260B
	88	(66 - 122)	9.4	(0-20)	SW846 8260B
Chloromethane	106	(46 - 140)			SW846 8260B
	97	(46 - 140)	8.9	(0-20)	SW846 8260B
2-Chlorotoluene	47 a	(55 - 131)			SW846 8260B
	29 a,p	(55 - 131)	47	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	42 a	(55 - 133)			SW846 8260B
	26 a,p	(55 - 133)	49	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	67	(41 - 143)			SW846 8260B
	52	(41 - 143)	24	(0-38)	SW846 8260B
1,2-Dibromoethane	89	(65 - 123)			SW846 8260B
	79	(65 - 123)	12	(0-20)	SW846 8260B
Dibromomethane	98	(64 - 126)			SW846 8260B
	86	(64 - 126)	13	(0-21)	SW846 8260B
1,2-Dichlorobenzene	44 a	(66 - 123)			SW846 8260B
	27 a,p	(66 - 123)	50	(0-20)	SW846 8260B
1,3-Dichlorobenzene	39 a	(67 - 123)			SW846 8260B
	23 a,p	(67 - 123)	52	(0-20)	SW846 8260B
1,4-Dichlorobenzene	38 a	(65 - 126)			SW846 8260B
	22 a,p	(65 - 126)	55	(0-20)	SW846 8260B
Dichlorodifluoromethane	85	(32 - 151)			SW846 8260B
	81	(32 - 151)	4.9	(0-25)	SW846 8260B
1,1-Dichloroethane	98	(68 - 127)			SW846 8260B
	90	(68 - 127)	8.7	(0-20)	SW846 8260B
1,2-Dichloroethane	107	(62 - 126)			SW846 8260B
	98	(62 - 126)	8.3	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	91	(56 - 134)			SW846 8260B
	80	(56 - 134)	12	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	86	(70 - 124)			SW846 8260B
	79	(70 - 124)	8.8	(0-20)	SW846 8260B
1,1-Dichloroethene	**96**	**(62 - 128)**			**SW846 8260B**
	87	**(62 - 128)**	**9.7**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	98	(72 - 122)			SW846 8260B
	88	(72 - 122)	11	(0-20)	SW846 8260B
1,3-Dichloropropane	90	(68 - 122)			SW846 8260B
	81	(68 - 122)	10	(0-20)	SW846 8260B
2,2-Dichloropropane	67	(34 - 149)			SW846 8260B
	69	(34 - 149)	3.6	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	84	(50 - 130)			SW846 8260B
	75	(50 - 130)	11	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	72	(42 - 132)			SW846 8260B
	68	(42 - 132)	5.9	(0-27)	SW846 8260B
1,1-Dichloropropene	81	(71 - 122)			SW846 8260B
	69 a	(71 - 122)	15	(0-20)	SW846 8260B
Ethylbenzene	65 a	(70 - 130)			SW846 8260B
	48 a,p	(70 - 130)	31	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	33 a	(58 - 123)			SW846 8260B
	20 a,p	(58 - 123)	50	(0-25)	SW846 8260B
2-Hexanone	93	(57 - 132)			SW846 8260B
	85	(57 - 132)	8.1	(0-50)	SW846 8260B
Isopropylbenzene	58 a	(69 - 130)			SW846 8260B
	43 a,p	(69 - 130)	31	(0-20)	SW846 8260B
p-Isopropyltoluene	40 a	(53 - 132)			SW846 8260B
	25 a,p	(53 - 132)	45	(0-20)	SW846 8260B
Methylene chloride	98	(53 - 131)			SW846 8260B
	92	(53 - 131)	6.5	(0-20)	SW846 8260B
4-Methyl-2-pentanone	103	(61 - 133)			SW846 8260B
	90	(61 - 133)	14	(0-23)	SW846 8260B
Naphthalene	13 a	(44 - 141)			SW846 8260B
	7.5 a,p	(44 - 141)	57	(0-38)	SW846 8260B
n-Propylbenzene	43 a	(53 - 136)			SW846 8260B
	27 a,p	(53 - 136)	44	(0-20)	SW846 8260B
Styrene	45 a	(69 - 129)			SW846 8260B
	29 a,p	(69 - 129)	43	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	76	(63 - 127)			SW846 8260B
	73	(63 - 127)	4.0	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	90	(65 - 128)			SW846 8260B
	81	(65 - 128)	10	(0-20)	SW846 8260B
Tetrachloroethene	71	(66 - 136)			SW846 8260B
	56 a,p	(66 - 136)	23	(0-20)	SW846 8260B
Toluene	**71**	**(69 - 129)**			**SW846 8260B**
	56 a,p	**(69 - 129)**	**23**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	17 a	(56 - 131)			SW846 8260B
	10 a,p	(56 - 131)	53	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	15 a	(59 - 129)			SW846 8260B
	9.6 a,p	(59 - 129)	46	(0-28)	SW846 8260B
1,1,1-Trichloroethane	88	(55 - 129)			SW846 8260B
	85	(55 - 129)	3.6	(0-24)	SW846 8260B
1,1,2-Trichloroethane	93	(65 - 124)			SW846 8260B
	87	(65 - 124)	6.9	(0-20)	SW846 8260B
Trichloroethene	**86**	**(56 - 137)**			**SW846 8260B**
	72	**(56 - 137)**	**18**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	97	(61 - 144)			SW846 8260B
	93	(61 - 144)	3.4	(0-20)	SW846 8260B
1,2,3-Trichloropropane	88	(54 - 128)			SW846 8260B
	77	(54 - 128)	14	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	38 a	(55 - 130)			SW846 8260B
	22 a,p	(55 - 130)	53	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	46 a	(56 - 133)			SW846 8260B
	29 a,p	(56 - 133)	47	(0-20)	SW846 8260B
Vinyl chloride	100	(65 - 139)			SW846 8260B
	93	(65 - 139)	7.0	(0-21)	SW846 8260B
m-Xylene & p-Xylene	57 a	(65 - 137)			SW846 8260B
	40 a,p	(65 - 137)	35	(0-20)	SW846 8260B
o-Xylene	59 a	(69 - 129)			SW846 8260B
	42 a,p	(69 - 129)	33	(0-20)	SW846 8260B
Xylenes (total)	58 a	(67 - 134)			SW846 8260B
	41 a,p	(67 - 134)	34	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	113	(79 - 120)
1,2-Dichloroethane-d4	112	(71 - 127)
	115	(71 - 127)
Toluene-d8	99	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)
	94	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	ND	40.0	31.1	ug/L	78		SW846 8260B
	ND	40.0	34.0	ug/L	85	8.9	SW846 8260B
Acrylonitrile	ND	200	205	ug/L	103		SW846 8260B
	ND	200	195	ug/L	97	5.2	SW846 8260B
Benzene	**ND**	**10.0**	**7.99**	**ug/L**	**80**		**SW846 8260B**
	ND	**10.0**	**6.68**	**ug/L**	**67 a**	**18**	**SW846 8260B**
Bromobenzene	ND	10.0	6.02	ug/L	60 a		SW846 8260B
	ND	10.0	4.30	ug/L	43 a,p	33	SW846 8260B
Bromochloromethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.01	ug/L	90	10	SW846 8260B
Bromodichloromethane	ND	10.0	9.34	ug/L	93		SW846 8260B
	ND	10.0	8.81	ug/L	88	5.9	SW846 8260B
Bromoform	0.99	10.0	9.24	ug/L	83		SW846 8260B
	0.99	10.0	9.20	ug/L	82	0.43	SW846 8260B
Bromomethane	ND	10.0	9.04	ug/L	90		SW846 8260B
	ND	10.0	8.89	ug/L	89	1.7	SW846 8260B
2-Butanone	ND	40.0	38.5	ug/L	96		SW846 8260B
	ND	40.0	35.3	ug/L	88	8.5	SW846 8260B
n-Butylbenzene	ND	10.0	2.32	ug/L	23 a		SW846 8260B
	ND	10.0	1.29	ug/L	13 a,p	57	SW846 8260B
sec-Butylbenzene	ND	10.0	4.12	ug/L	41 a		SW846 8260B
	ND	10.0	2.62	ug/L	26 a,p	44	SW846 8260B
tert-Butylbenzene	ND	10.0	5.61	ug/L	56		SW846 8260B
	ND	10.0	3.89	ug/L	39 a,p	36	SW846 8260B
Carbon disulfide	ND	10.0	8.41	ug/L	84		SW846 8260B
	ND	10.0	7.50	ug/L	75	11	SW846 8260B
Carbon tetrachloride	ND	10.0	6.82	ug/L	68		SW846 8260B
	ND	10.0	6.92	ug/L	69	1.4	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**6.64**	**ug/L**	**66 a**		**SW846 8260B**
	ND	**10.0**	**4.82**	**ug/L**	**48 a,p**	**32**	**SW846 8260B**
Chlorodibromomethane	0.92	10.0	8.24	ug/L	73		SW846 8260B
	0.92	10.0	8.55	ug/L	76	3.7	SW846 8260B
Chloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	9.78	ug/L	98	8.2	SW846 8260B
Chloroform	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	8.82	ug/L	88	9.4	SW846 8260B
Chloromethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	9.73	ug/L	97	8.9	SW846 8260B
2-Chlorotoluene	ND	10.0	4.65	ug/L	47 a		SW846 8260B
	ND	10.0	2.89	ug/L	29 a,p	47	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	4.23	ug/L	42 a		SW846 8260B
	ND	10.0	2.56	ug/L	26 a,p	49	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	6.65	ug/L	67		SW846 8260B
	ND	10.0	5.23	ug/L	52	24	SW846 8260B
1,2-Dibromoethane	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	7.93	ug/L	79	12	SW846 8260B
Dibromomethane	ND	10.0	9.78	ug/L	98		SW846 8260B
	ND	10.0	8.61	ug/L	86	13	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	4.41	ug/L	44 a		SW846 8260B
	ND	10.0	2.65	ug/L	27 a,p	50	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	3.87	ug/L	39 a		SW846 8260B
	ND	10.0	2.28	ug/L	23 a,p	52	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	3.81	ug/L	38 a		SW846 8260B
	ND	10.0	2.18	ug/L	22 a,p	55	SW846 8260B
Dichlorodifluoromethane	ND	10.0	8.54	ug/L	85		SW846 8260B
	ND	10.0	8.13	ug/L	81	4.9	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	8.99	ug/L	90	8.7	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	9.84	ug/L	98	8.3	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.09	ug/L	91		SW846 8260B
	ND	10.0	8.02	ug/L	80	12	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.59	ug/L	86		SW846 8260B
	ND	10.0	7.87	ug/L	79	8.8	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**9.56**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**8.68**	**ug/L**	**87**	**9.7**	**SW846 8260B**
1,2-Dichloropropane	ND	10.0	9.80	ug/L	98		SW846 8260B
	ND	10.0	8.80	ug/L	88	11	SW846 8260B
1,3-Dichloropropane	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	8.11	ug/L	81	10	SW846 8260B
2,2-Dichloropropane	ND	10.0	6.68	ug/L	67		SW846 8260B
	ND	10.0	6.93	ug/L	69	3.6	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	8.42	ug/L	84		SW846 8260B
	ND	10.0	7.52	ug/L	75	11	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	7.21	ug/L	72		SW846 8260B
	ND	10.0	6.80	ug/L	68	5.9	SW846 8260B
1,1-Dichloropropene	ND	10.0	8.08	ug/L	81		SW846 8260B
	ND	10.0	6.94	ug/L	69 a	15	SW846 8260B
Ethylbenzene	ND	10.0	6.50	ug/L	65 a		SW846 8260B
	ND	10.0	4.77	ug/L	48 a,p	31	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Hexachlorobutadiene	ND	10.0	3.29	ug/L	33 a		SW846 8260B
	ND	10.0	1.98	ug/L	20 a,p	50	SW846 8260B
2-Hexanone	ND	40.0	37.1	ug/L	93		SW846 8260B
	ND	40.0	34.2	ug/L	85	8.1	SW846 8260B
Isopropylbenzene	ND	10.0	5.79	ug/L	58 a		SW846 8260B
	ND	10.0	4.25	ug/L	43 a,p	31	SW846 8260B
p-Isopropyltoluene	ND	10.0	4.00	ug/L	40 a		SW846 8260B
	ND	10.0	2.52	ug/L	25 a,p	45	SW846 8260B
Methylene chloride	ND	10.0	9.79	ug/L	98		SW846 8260B
	ND	10.0	9.17	ug/L	92	6.5	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	41.3	ug/L	103		SW846 8260B
	ND	40.0	35.9	ug/L	90	14	SW846 8260B
Naphthalene	ND	10.0	1.35	ug/L	13 a		SW846 8260B
	ND	10.0	0.747	ug/L	7.5	57	SW846 8260B
	Qualifiers: a,p						
n-Propylbenzene	ND	10.0	4.29	ug/L	43 a		SW846 8260B
	ND	10.0	2.73	ug/L	27 a,p	44	SW846 8260B
Styrene	ND	10.0	4.53	ug/L	45 a		SW846 8260B
	ND	10.0	2.93	ug/L	29 a,p	43	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	7.56	ug/L	76		SW846 8260B
	ND	10.0	7.26	ug/L	73	4.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	8.12	ug/L	81	10	SW846 8260B
Tetrachloroethene	ND	10.0	7.07	ug/L	71		SW846 8260B
	ND	10.0	5.64	ug/L	56 a,p	23	SW846 8260B
Toluene	**ND**	**10.0**	**7.06**	**ug/L**	**71**		**SW846 8260B**
	ND	**10.0**	**5.58**	**ug/L**	**56 a,p**	**23**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	1.72	ug/L	17 a		SW846 8260B
	ND	10.0	0.996	ug/L	10 a,p	53	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	1.52	ug/L	15 a		SW846 8260B
	ND	10.0	0.959	ug/L	9.6	46	SW846 8260B
	Qualifiers: a,p						
1,1,1-Trichloroethane	ND	10.0	8.76	ug/L	88		SW846 8260B
	ND	10.0	8.45	ug/L	85	3.6	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.28	ug/L	93		SW846 8260B
	ND	10.0	8.66	ug/L	87	6.9	SW846 8260B
Trichloroethene	**ND**	**10.0**	**8.65**	**ug/L**	**86**		**SW846 8260B**
	ND	**10.0**	**7.19**	**ug/L**	**72**	**18**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	9.67	ug/L	97		SW846 8260B
	ND	10.0	9.35	ug/L	93	3.4	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.78	ug/L	88		SW846 8260B
	ND	10.0	7.66	ug/L	77	14	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trimethylbenzene	ND	10.0	3.80	ug/L	38 a		SW846 8260B
	ND	10.0	2.21	ug/L	22 a,p	53	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0	4.60	ug/L	46 a		SW846 8260B
	ND	10.0	2.85	ug/L	29 a,p	47	SW846 8260B
Vinyl chloride	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.32	ug/L	93	7.0	SW846 8260B
m-Xylene & p-Xylene	ND	20.0	11.4	ug/L	57 a		SW846 8260B
	ND	20.0	8.01	ug/L	40 a,p	35	SW846 8260B
o-Xylene	ND	10.0	5.90	ug/L	59 a		SW846 8260B
	ND	10.0	4.22	ug/L	42 a,p	33	SW846 8260B
Xylenes (total)	ND	30.0	17.3	ug/L	58 a		SW846 8260B
	ND	30.0	12.2	ug/L	41 a,p	34	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	113	(79 - 120)
1,2-Dichloroethane-d4	112	(71 - 127)
	115	(71 - 127)
Toluene-d8	99	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)
	94	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AA **Matrix.....:** AIR
MB Lot-Sample #: H6D060000-033

Prep Date.....: 04/06/06
Analysis Date..: 04/07/06 **Prep Batch #...:** 6096033
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**0.095 J**	**0.10**	**ug**	**SW846 VOST**
Acrylonitrile	ND	0.50	ug	SW846 VOST
Benzene	ND	0.010	ug	SW846 VOST
Bromobenzene	ND	0.010	ug	SW846 VOST
Bromochloromethane	ND	0.025	ug	SW846 VOST
Bromodichloromethane	ND	0.010	ug	SW846 VOST
Bromoform	ND	0.025	ug	SW846 VOST
Bromomethane	**0.026 J**	**0.050**	**ug**	**SW846 VOST**
2-Butanone	ND	0.10	ug	SW846 VOST
n-Butylbenzene	ND	0.010	ug	SW846 VOST
sec-Butylbenzene	ND	0.010	ug	SW846 VOST
tert-Butylbenzene	ND	0.010	ug	SW846 VOST
Carbon disulfide	ND	0.010	ug	SW846 VOST
Carbon tetrachloride	ND	0.010	ug	SW846 VOST
Chlorobenzene	ND	0.010	ug	SW846 VOST
Chlorodibromomethane	ND	0.025	ug	SW846 VOST
Chloroethane	ND	0.050	ug	SW846 VOST
Chloroform	ND	0.010	ug	SW846 VOST
Chloromethane	ND	0.010	ug	SW846 VOST
2-Chlorotoluene	ND	0.010	ug	SW846 VOST
4-Chlorotoluene	ND	0.010	ug	SW846 VOST
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	SW846 VOST
1,2-Dibromoethane	ND	0.025	ug	SW846 VOST
Dibromomethane	ND	0.025	ug	SW846 VOST
1,2-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,3-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,4-Dichlorobenzene	ND	0.010	ug	SW846 VOST
Dichlorodifluoromethane	ND	0.025	ug	SW846 VOST
1,1-Dichloroethane	ND	0.010	ug	SW846 VOST
1,2-Dichloroethane	ND	0.010	ug	SW846 VOST
cis-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
trans-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
1,1-Dichloroethene	ND	0.010	ug	SW846 VOST
1,2-Dichloropropane	ND	0.010	ug	SW846 VOST
1,3-Dichloropropane	ND	0.010	ug	SW846 VOST
2,2-Dichloropropane	ND	0.010	ug	SW846 VOST
cis-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
trans-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
1,1-Dichloropropene	ND	0.010	ug	SW846 VOST
Ethylbenzene	ND	0.010	ug	SW846 VOST

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	0.025	ug	SW846 VOST
2-Hexanone	ND	0.10	ug	SW846 VOST
Iodomethane	**0.014 J**	**0.050**	**ug**	**SW846 VOST**
Isopropylbenzene	ND	0.010	ug	SW846 VOST
p-Isopropyltoluene	ND	0.010	ug	SW846 VOST
Methylene chloride	ND	0.025	ug	SW846 VOST
4-Methyl-2-pentanone	ND	0.10	ug	SW846 VOST
Naphthalene	ND	0.025	ug	SW846 VOST
n-Propylbenzene	ND	0.010	ug	SW846 VOST
Styrene	ND	0.010	ug	SW846 VOST
1,1,1,2-Tetrachloroethane	ND	0.010	ug	SW846 VOST
1,1,2,2-Tetrachloroethane	ND	0.025	ug	SW846 VOST
Tetrachloroethene	ND	0.010	ug	SW846 VOST
Tetrahydrofuran	ND	0.10	ug	SW846 VOST
Toluene	ND	0.010	ug	SW846 VOST
1,2,3-Trichlorobenzene	ND	0.025	ug	SW846 VOST
1,2,4-Trichloro-benzene	ND	0.025	ug	SW846 VOST
1,1,1-Trichloroethane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloroethane	ND	0.025	ug	SW846 VOST
Trichloroethene	ND	0.010	ug	SW846 VOST
Trichlorofluoromethane	ND	0.050	ug	SW846 VOST
1,2,3-Trichloropropane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	SW846 VOST
1,2,4-Trimethylbenzene	ND	0.010	ug	SW846 VOST
1,3,5-Trimethylbenzene	ND	0.010	ug	SW846 VOST
Vinyl acetate	ND	0.050	ug	SW846 VOST
Vinyl chloride	ND	0.010	ug	SW846 VOST
m-Xylene & p-Xylene	ND	0.020	ug	SW846 VOST
o-Xylene	ND	0.010	ug	SW846 VOST
Xylenes (total)	ND	0.030	ug	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(50 - 134)
1,2-Dichloroethane-d4	91	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	79	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D060000-033 B **Work Order #:** H2N441AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	50	(30 - 180)			SW846 VOST
	63	(30 - 180)	23	(0-25)	SW846 VOST
Acrylonitrile	71	(30 - 130)			SW846 VOST
	86	(30 - 130)	18	(0-30)	SW846 VOST
Benzene	**99**	**(69 - 130)**			**SW846 VOST**
	99	**(69 - 130)**	**0.26**	**(0-25)**	**SW846 VOST**
Bromobenzene	90	(50 - 117)			SW846 VOST
	99	(50 - 117)	9.8	(0-25)	SW846 VOST
Bromochloromethane	102	(52 - 125)			SW846 VOST
	102	(52 - 125)	0.010	(0-25)	SW846 VOST
Bromodichloromethane	101	(51 - 129)			SW846 VOST
	109	(51 - 129)	7.7	(0-25)	SW846 VOST
Bromoform	101	(40 - 111)			SW846 VOST
	109	(40 - 111)	7.6	(0-25)	SW846 VOST
Bromomethane	139	(30 - 170)			SW846 VOST
	129	(30 - 170)	7.9	(0-25)	SW846 VOST
2-Butanone	60	(30 - 150)			SW846 VOST
	81 p	(30 - 150)	30	(0-25)	SW846 VOST
n-Butylbenzene	97	(50 - 140)			SW846 VOST
	95	(50 - 140)	2.1	(0-25)	SW846 VOST
sec-Butylbenzene	96	(59 - 136)			SW846 VOST
	93	(59 - 136)	3.4	(0-25)	SW846 VOST
tert-Butylbenzene	95	(59 - 127)			SW846 VOST
	92	(59 - 127)	3.1	(0-25)	SW846 VOST
Carbon disulfide	112	(58 - 150)			SW846 VOST
	110	(58 - 150)	1.6	(0-25)	SW846 VOST
Carbon tetrachloride	104	(61 - 150)			SW846 VOST
	102	(61 - 150)	2.3	(0-25)	SW846 VOST
Chlorobenzene	**96**	**(70 - 116)**			**SW846 VOST**
	98	**(70 - 116)**	**2.3**	**(0-25)**	**SW846 VOST**
Chlorodibromomethane	83	(50 - 116)			SW846 VOST
	95	(50 - 116)	12	(0-25)	SW846 VOST
Chloroethane	128	(30 - 150)			SW846 VOST
	129	(30 - 150)	0.41	(0-25)	SW846 VOST
Chloroform	102	(60 - 132)			SW846 VOST
	106	(60 - 132)	3.6	(0-25)	SW846 VOST
Chloromethane	171 a	(30 - 170)			SW846 VOST
	162	(30 - 170)	5.1	(0-25)	SW846 VOST
2-Chlorotoluene	88	(50 - 122)			SW846 VOST
	89	(50 - 122)	0.53	(0-25)	SW846 VOST

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	92	(50 - 119)			SW846 VOST
	92	(50 - 119)	0.36	(0-25)	SW846 VOST
1,2-Dibromo-3-chloro-propane	51	(30 - 110)			SW846 VOST
	67 p	(30 - 110)	27	(0-25)	SW846 VOST
1,2-Dibromoethane	82	(50 - 111)			SW846 VOST
	90	(50 - 111)	9.3	(0-25)	SW846 VOST
Dibromomethane	95	(50 - 118)			SW846 VOST
	100	(50 - 118)	5.0	(0-25)	SW846 VOST
1,2-Dichlorobenzene	83	(50 - 108)			SW846 VOST
	92	(50 - 108)	11	(0-25)	SW846 VOST
1,3-Dichlorobenzene	88	(50 - 113)			SW846 VOST
	91	(50 - 113)	4.1	(0-25)	SW846 VOST
1,4-Dichlorobenzene	86	(50 - 111)			SW846 VOST
	92	(50 - 111)	6.8	(0-25)	SW846 VOST
Dichlorodifluoromethane	103	(30 - 150)			SW846 VOST
	100	(30 - 150)	3.6	(0-25)	SW846 VOST
1,1-Dichloroethane	104	(64 - 134)			SW846 VOST
	106	(64 - 134)	1.4	(0-25)	SW846 VOST
1,2-Dichloroethane	101	(50 - 121)			SW846 VOST
	107	(50 - 121)	6.1	(0-25)	SW846 VOST
cis-1,2-Dichloroethene	99	(60 - 131)			SW846 VOST
	103	(60 - 131)	3.0	(0-25)	SW846 VOST
trans-1,2-Dichloroethene	105	(68 - 140)			SW846 VOST
	102	(68 - 140)	3.0	(0-25)	SW846 VOST
1,1-Dichloroethene	**122**	**(63 - 150)**			**SW846 VOST**
	120	**(63 - 150)**	**1.3**	**(0-25)**	**SW846 VOST**
1,2-Dichloropropane	103	(56 - 124)			SW846 VOST
	108	(56 - 124)	4.2	(0-25)	SW846 VOST
1,3-Dichloropropane	79	(50 - 113)			SW846 VOST
	89	(50 - 113)	11	(0-25)	SW846 VOST
2,2-Dichloropropane	96	(66 - 150)			SW846 VOST
	97	(66 - 150)	1.2	(0-25)	SW846 VOST
cis-1,3-Dichloropropene	97	(50 - 128)			SW846 VOST
	105	(50 - 128)	8.1	(0-25)	SW846 VOST
trans-1,3-Dichloropropene	76	(50 - 116)			SW846 VOST
	86	(50 - 116)	11	(0-25)	SW846 VOST
1,1-Dichloropropene	110	(75 - 149)			SW846 VOST
	105	(75 - 149)	4.8	(0-25)	SW846 VOST
Ethylbenzene	98	(66 - 129)			SW846 VOST
	101	(66 - 129)	2.2	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	115	(50 - 150)			SW846 VOST
	112	(50 - 150)	2.4	(0-25)	SW846 VOST
2-Hexanone	78	(30 - 133)			SW846 VOST
	100	(30 - 133)	24	(0-25)	SW846 VOST
Iodomethane	129	(50 - 150)			SW846 VOST
	123	(50 - 150)	4.6	(0-25)	SW846 VOST
Isopropylbenzene	99	(62 - 137)			SW846 VOST
	99	(62 - 137)	0.63	(0-25)	SW846 VOST
p-Isopropyltoluene	97	(57 - 131)			SW846 VOST
	94	(57 - 131)	2.8	(0-25)	SW846 VOST
Methylene chloride	98	(50 - 149)			SW846 VOST
	101	(50 - 149)	3.3	(0-25)	SW846 VOST
4-Methyl-2-pentanone	93	(30 - 120)			SW846 VOST
	114	(30 - 120)	21	(0-25)	SW846 VOST
Naphthalene	62	(30 - 120)			SW846 VOST
	78	(30 - 120)	22	(0-25)	SW846 VOST
n-Propylbenzene	94	(56 - 136)			SW846 VOST
	91	(56 - 136)	3.5	(0-25)	SW846 VOST
Styrene	91	(50 - 122)			SW846 VOST
	96	(50 - 122)	5.6	(0-25)	SW846 VOST
1,1,1,2-Tetrachloroethane	86	(50 - 115)			SW846 VOST
	93	(50 - 115)	7.9	(0-25)	SW846 VOST
1,1,2,2-Tetrachloroethane	81	(30 - 110)			SW846 VOST
	94	(30 - 110)	15	(0-25)	SW846 VOST
Tetrachloroethene	102	(60 - 142)			SW846 VOST
	98	(60 - 142)	3.6	(0-25)	SW846 VOST
Toluene	**94**	**(64 - 128)**			**SW846 VOST**
	97	**(64 - 128)**	**2.3**	**(0-25)**	**SW846 VOST**
1,2,3-Trichlorobenzene	82	(30 - 106)			SW846 VOST
	98	(30 - 106)	17	(0-25)	SW846 VOST
1,2,4-Trichloro-benzene	85	(30 - 116)			SW846 VOST
	101	(30 - 116)	17	(0-25)	SW846 VOST
1,1,1-Trichloroethane	110	(64 - 150)			SW846 VOST
	111	(64 - 150)	1.3	(0-25)	SW846 VOST
1,1,2-Trichloroethane	89	(50 - 112)			SW846 VOST
	90	(50 - 112)	1.2	(0-25)	SW846 VOST
Trichloroethene	**113**	**(72 - 150)**			**SW846 VOST**
	112	**(72 - 150)**	**0.48**	**(0-25)**	**SW846 VOST**
Trichlorofluoromethane	130	(30 - 150)			SW846 VOST
	123	(30 - 150)	5.1	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,3-Trichloropropane	75	(30 - 110)			SW846 VOST
	78	(30 - 110)	4.4	(0-25)	SW846 VOST
1,2,4-Trimethylbenzene	91	(50 - 125)			SW846 VOST
	91	(50 - 125)	0.40	(0-25)	SW846 VOST
1,3,5-Trimethylbenzene	94	(53 - 130)			SW846 VOST
	93	(53 - 130)	0.84	(0-25)	SW846 VOST
Vinyl chloride	117	(61 - 150)			SW846 VOST
	124	(61 - 150)	5.4	(0-25)	SW846 VOST
m-Xylene & p-Xylene	99	(62 - 131)			SW846 VOST
	102	(62 - 131)	2.8	(0-25)	SW846 VOST
o-Xylene	96	(56 - 121)			SW846 VOST
	100	(56 - 121)	4.3	(0-25)	SW846 VOST
Xylenes (total)	98	(60 - 127)			SW846 VOST
	101	(60 - 127)	3.3	(0-25)	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(50 - 134)
	109	(50 - 134)
1,2-Dichloroethane-d4	96	(50 - 134)
	100	(50 - 134)
Toluene-d8	97	(57 - 127)
	96	(57 - 127)
Bromofluorobenzene	84	(50 - 125)
	84	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	1.00	0.501	ug	50		SW846 VOST
	1.00	0.630	ug	63	23	SW846 VOST
Acrylonitrile	5.00	3.56	ug	71		SW846 VOST
	5.00	4.28	ug	86	18	SW846 VOST
Benzene	**0.250**	**0.248**	**ug**	**99**		**SW846 VOST**
	0.250	**0.248**	**ug**	**99**	**0.26**	**SW846 VOST**
Bromobenzene	0.250	0.224	ug	90		SW846 VOST
	0.250	0.247	ug	99	9.8	SW846 VOST
Bromochloromethane	0.250	0.254	ug	102		SW846 VOST
	0.250	0.254	ug	102	0.010	SW846 VOST
Bromodichloromethane	0.250	0.253	ug	101		SW846 VOST
	0.250	0.274	ug	109	7.7	SW846 VOST
Bromoform	0.250	0.251	ug	101		SW846 VOST
	0.250	0.271	ug	109	7.6	SW846 VOST
Bromomethane	0.250	0.348	ug	139		SW846 VOST
	0.250	0.321	ug	129	7.9	SW846 VOST
2-Butanone	1.00	0.597	ug	60		SW846 VOST
	1.00	0.810 p	ug	81	30	SW846 VOST
n-Butylbenzene	0.250	0.243	ug	97		SW846 VOST
	0.250	0.238	ug	95	2.1	SW846 VOST
sec-Butylbenzene	0.250	0.240	ug	96		SW846 VOST
	0.250	0.232	ug	93	3.4	SW846 VOST
tert-Butylbenzene	0.250	0.238	ug	95		SW846 VOST
	0.250	0.231	ug	92	3.1	SW846 VOST
Carbon disulfide	0.250	0.280	ug	112		SW846 VOST
	0.250	0.276	ug	110	1.6	SW846 VOST
Carbon tetrachloride	0.250	0.260	ug	104		SW846 VOST
	0.250	0.254	ug	102	2.3	SW846 VOST
Chlorobenzene	**0.250**	**0.240**	**ug**	**96**		**SW846 VOST**
	0.250	**0.246**	**ug**	**98**	**2.3**	**SW846 VOST**
Chlorodibromomethane	0.250	0.209	ug	83		SW846 VOST
	0.250	0.237	ug	95	12	SW846 VOST
Chloroethane	0.250	0.320	ug	128		SW846 VOST
	0.250	0.322	ug	129	0.41	SW846 VOST
Chloroform	0.250	0.255	ug	102		SW846 VOST
	0.250	0.265	ug	106	3.6	SW846 VOST
Chloromethane	0.250	0.426 a	ug	171		SW846 VOST
	0.250	0.405	ug	162	5.1	SW846 VOST
2-Chlorotoluene	0.250	0.221	ug	88		SW846 VOST
	0.250	0.222	ug	89	0.53	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorotoluene	0.250	0.229	ug	92		SW846 VOST
	0.250	0.230	ug	92	0.36	SW846 VOST
1,2-Dibromo-3-chloro-propane	0.250	0.127	ug	51		SW846 VOST
	0.250	0.167 p	ug	67	27	SW846 VOST
1,2-Dibromoethane	0.250	0.205	ug	82		SW846 VOST
	0.250	0.225	ug	90	9.3	SW846 VOST
Dibromomethane	0.250	0.237	ug	95		SW846 VOST
	0.250	0.249	ug	100	5.0	SW846 VOST
1,2-Dichlorobenzene	0.250	0.207	ug	83		SW846 VOST
	0.250	0.231	ug	92	11	SW846 VOST
1,3-Dichlorobenzene	0.250	0.219	ug	88		SW846 VOST
	0.250	0.228	ug	91	4.1	SW846 VOST
1,4-Dichlorobenzene	0.250	0.215	ug	86		SW846 VOST
	0.250	0.231	ug	92	6.8	SW846 VOST
Dichlorodifluoromethane	0.250	0.259	ug	103		SW846 VOST
	0.250	0.249	ug	100	3.6	SW846 VOST
1,1-Dichloroethane	0.250	0.261	ug	104		SW846 VOST
	0.250	0.264	ug	106	1.4	SW846 VOST
1,2-Dichloroethane	0.250	0.252	ug	101		SW846 VOST
	0.250	0.268	ug	107	6.1	SW846 VOST
cis-1,2-Dichloroethene	0.250	0.249	ug	99		SW846 VOST
	0.250	0.256	ug	103	3.0	SW846 VOST
trans-1,2-Dichloroethene	0.250	0.262	ug	105		SW846 VOST
	0.250	0.254	ug	102	3.0	SW846 VOST
1,1-Dichloroethene	**0.250**	**0.304**	**ug**	**122**		**SW846 VOST**
	0.250	**0.300**	**ug**	**120**	**1.3**	**SW846 VOST**
1,2-Dichloropropane	0.250	0.258	ug	103		SW846 VOST
	0.250	0.269	ug	108	4.2	SW846 VOST
1,3-Dichloropropane	0.250	0.198	ug	79		SW846 VOST
	0.250	0.222	ug	89	11	SW846 VOST
2,2-Dichloropropane	0.250	0.239	ug	96		SW846 VOST
	0.250	0.242	ug	97	1.2	SW846 VOST
cis-1,3-Dichloropropene	0.250	0.243	ug	97		SW846 VOST
	0.250	0.263	ug	105	8.1	SW846 VOST
trans-1,3-Dichloropropene	0.250	0.191	ug	76		SW846 VOST
	0.250	0.214	ug	86	11	SW846 VOST
1,1-Dichloropropene	0.250	0.275	ug	110		SW846 VOST
	0.250	0.262	ug	105	4.8	SW846 VOST
Ethylbenzene	0.250	0.246	ug	98		SW846 VOST
	0.250	0.252	ug	101	2.2	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorobutadiene	0.250	0.287	ug	115		SW846 VOST
	0.250	0.281	ug	112	2.4	SW846 VOST
2-Hexanone	1.00	0.783	ug	78		SW846 VOST
	1.00	0.998	ug	100	24	SW846 VOST
Iodomethane	0.250	0.322	ug	129		SW846 VOST
	0.250	0.307	ug	123	4.6	SW846 VOST
Isopropylbenzene	0.250	0.249	ug	99		SW846 VOST
	0.250	0.247	ug	99	0.63	SW846 VOST
p-Isopropyltoluene	0.250	0.243	ug	97		SW846 VOST
	0.250	0.236	ug	94	2.8	SW846 VOST
Methylene chloride	0.250	0.244	ug	98		SW846 VOST
	0.250	0.253	ug	101	3.3	SW846 VOST
4-Methyl-2-pentanone	1.00	0.928	ug	93		SW846 VOST
	1.00	1.14	ug	114	21	SW846 VOST
Naphthalene	0.250	0.156	ug	62		SW846 VOST
	0.250	0.195	ug	78	22	SW846 VOST
n-Propylbenzene	0.250	0.236	ug	94		SW846 VOST
	0.250	0.228	ug	91	3.5	SW846 VOST
Styrene	0.250	0.228	ug	91		SW846 VOST
	0.250	0.241	ug	96	5.6	SW846 VOST
1,1,1,2-Tetrachloroethane	0.250	0.215	ug	86		SW846 VOST
	0.250	0.232	ug	93	7.9	SW846 VOST
1,1,2,2-Tetrachloroethane	0.250	0.203	ug	81		SW846 VOST
	0.250	0.236	ug	94	15	SW846 VOST
Tetrachloroethene	0.250	0.254	ug	102		SW846 VOST
	0.250	0.245	ug	98	3.6	SW846 VOST
Toluene	**0.250**	**0.236**	**ug**	**94**		**SW846 VOST**
	0.250	**0.242**	**ug**	**97**	**2.3**	**SW846 VOST**
1,2,3-Trichlorobenzene	0.250	0.205	ug	82		SW846 VOST
	0.250	0.244	ug	98	17	SW846 VOST
1,2,4-Trichloro-benzene	0.250	0.213	ug	85		SW846 VOST
	0.250	0.254	ug	101	17	SW846 VOST
1,1,1-Trichloroethane	0.250	0.274	ug	110		SW846 VOST
	0.250	0.278	ug	111	1.3	SW846 VOST
1,1,2-Trichloroethane	0.250	0.223	ug	89		SW846 VOST
	0.250	0.225	ug	90	1.2	SW846 VOST
Trichloroethene	**0.250**	**0.282**	**ug**	**113**		**SW846 VOST**
	0.250	**0.281**	**ug**	**112**	**0.48**	**SW846 VOST**
Trichlorofluoromethane	0.250	0.325	ug	130		SW846 VOST
	0.250	0.309	ug	123	5.1	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2,3-Trichloropropane	0.250	0.187	ug	75		SW846 VOST
	0.250	0.195	ug	78	4.4	SW846 VOST
1,2,4-Trimethylbenzene	0.250	0.227	ug	91		SW846 VOST
	0.250	0.228	ug	91	0.40	SW846 VOST
1,3,5-Trimethylbenzene	0.250	0.235	ug	94		SW846 VOST
	0.250	0.233	ug	93	0.84	SW846 VOST
Vinyl chloride	0.250	0.293	ug	117		SW846 VOST
	0.250	0.309	ug	124	5.4	SW846 VOST
m-Xylene & p-Xylene	0.500	0.496	ug	99		SW846 VOST
	0.500	0.510	ug	102	2.8	SW846 VOST
o-Xylene	0.250	0.239	ug	96		SW846 VOST
	0.250	0.249	ug	100	4.3	SW846 VOST
Xylenes (total)	0.750	0.735	ug	98		SW846 VOST
	0.750	0.760	ug	101	3.3	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(50 - 134)
	109	(50 - 134)
1,2-Dichloroethane-d4	96	(50 - 134)
	100	(50 - 134)
Toluene-d8	97	(57 - 127)
	96	(57 - 127)
Bromofluorobenzene	84	(50 - 125)
	84	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AA **Matrix.....:** AIR
MB Lot-Sample #: H6D070000-054

Prep Date.....: 04/07/06
Analysis Date..: 04/07/06 **Prep Batch #...:** 6097054
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	0.10	ug	SW846 VOST
Acrylonitrile	ND	0.50	ug	SW846 VOST
Benzene	ND	0.010	ug	SW846 VOST
Bromobenzene	ND	0.010	ug	SW846 VOST
Bromochloromethane	ND	0.025	ug	SW846 VOST
Bromodichloromethane	ND	0.010	ug	SW846 VOST
Bromoform	ND	0.025	ug	SW846 VOST
Bromomethane	ND	0.050	ug	SW846 VOST
2-Butanone	ND	0.10	ug	SW846 VOST
n-Butylbenzene	ND	0.010	ug	SW846 VOST
sec-Butylbenzene	ND	0.010	ug	SW846 VOST
tert-Butylbenzene	ND	0.010	ug	SW846 VOST
Carbon disulfide	ND	0.010	ug	SW846 VOST
Carbon tetrachloride	ND	0.010	ug	SW846 VOST
Chlorobenzene	ND	0.010	ug	SW846 VOST
Chlorodibromomethane	ND	0.025	ug	SW846 VOST
Chloroethane	ND	0.050	ug	SW846 VOST
Chloroform	ND	0.010	ug	SW846 VOST
Chloromethane	ND	0.025	ug	SW846 VOST
2-Chlorotoluene	ND	0.010	ug	SW846 VOST
4-Chlorotoluene	ND	0.010	ug	SW846 VOST
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	SW846 VOST
1,2-Dibromoethane	ND	0.025	ug	SW846 VOST
Dibromomethane	ND	0.025	ug	SW846 VOST
1,2-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,3-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,4-Dichlorobenzene	ND	0.010	ug	SW846 VOST
Dichlorodifluoromethane	ND	0.025	ug	SW846 VOST
1,1-Dichloroethane	ND	0.010	ug	SW846 VOST
1,2-Dichloroethane	ND	0.010	ug	SW846 VOST
cis-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
trans-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
1,1-Dichloroethene	ND	0.010	ug	SW846 VOST
1,2-Dichloropropane	ND	0.010	ug	SW846 VOST
1,3-Dichloropropane	ND	0.010	ug	SW846 VOST
2,2-Dichloropropane	ND	0.010	ug	SW846 VOST
cis-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
trans-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
1,1-Dichloropropene	ND	0.010	ug	SW846 VOST
Ethylbenzene	ND	0.010	ug	SW846 VOST

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	0.025	ug	SW846 VOST
2-Hexanone	ND	0.10	ug	SW846 VOST
Iodomethane	ND	0.050	ug	SW846 VOST
Isopropylbenzene	ND	0.010	ug	SW846 VOST
p-Isopropyltoluene	ND	0.010	ug	SW846 VOST
Methylene chloride	ND	0.025	ug	SW846 VOST
4-Methyl-2-pentanone	ND	0.10	ug	SW846 VOST
Naphthalene	ND	0.025	ug	SW846 VOST
n-Propylbenzene	ND	0.010	ug	SW846 VOST
Styrene	ND	0.010	ug	SW846 VOST
1,1,1,2-Tetrachloroethane	ND	0.010	ug	SW846 VOST
1,1,2,2-Tetrachloroethane	ND	0.025	ug	SW846 VOST
Tetrachloroethene	ND	0.010	ug	SW846 VOST
Tetrahydrofuran	ND	0.10	ug	SW846 VOST
Toluene	ND	0.010	ug	SW846 VOST
1,2,3-Trichlorobenzene	ND	0.025	ug	SW846 VOST
1,2,4-Trichloro-benzene	**0.0030 J**	**0.025**	**ug**	**SW846 VOST**
1,1,1-Trichloroethane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloroethane	ND	0.025	ug	SW846 VOST
Trichloroethene	ND	0.010	ug	SW846 VOST
Trichlorofluoromethane	ND	0.050	ug	SW846 VOST
1,2,3-Trichloropropane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	SW846 VOST
1,2,4-Trimethylbenzene	ND	0.010	ug	SW846 VOST
1,3,5-Trimethylbenzene	ND	0.010	ug	SW846 VOST
Vinyl acetate	ND	0.050	ug	SW846 VOST
Vinyl chloride	ND	0.010	ug	SW846 VOST
m-Xylene & p-Xylene	ND	0.020	ug	SW846 VOST
o-Xylene	ND	0.010	ug	SW846 VOST
Xylenes (total)	ND	0.030	ug	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	71	(57 - 127)
Bromofluorobenzene	57	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D070000-054 B **Work Order #:** H2RM41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	128	(30 - 180)			SW846 VOST
	127	(30 - 180)	0.55	(0-25)	SW846 VOST
Acrylonitrile	53	(30 - 130)			SW846 VOST
	54	(30 - 130)	2.1	(0-30)	SW846 VOST
Benzene	**92**	**(69 - 130)**			**SW846 VOST**
	92	**(69 - 130)**	**0.020**	**(0-25)**	**SW846 VOST**
Bromobenzene	70	(50 - 117)			SW846 VOST
	74	(50 - 117)	5.4	(0-25)	SW846 VOST
Bromochloromethane	76	(52 - 125)			SW846 VOST
	77	(52 - 125)	0.92	(0-25)	SW846 VOST
Bromodichloromethane	85	(51 - 129)			SW846 VOST
	89	(51 - 129)	4.9	(0-25)	SW846 VOST
Bromoform	56	(40 - 111)			SW846 VOST
	59	(40 - 111)	5.1	(0-25)	SW846 VOST
Bromomethane	94	(30 - 170)			SW846 VOST
	92	(30 - 170)	1.5	(0-25)	SW846 VOST
2-Butanone	57	(30 - 150)			SW846 VOST
	67	(30 - 150)	17	(0-25)	SW846 VOST
n-Butylbenzene	111	(50 - 140)			SW846 VOST
	107	(50 - 140)	3.3	(0-25)	SW846 VOST
sec-Butylbenzene	95	(59 - 136)			SW846 VOST
	93	(59 - 136)	3.0	(0-25)	SW846 VOST
tert-Butylbenzene	87	(59 - 127)			SW846 VOST
	85	(59 - 127)	2.4	(0-25)	SW846 VOST
Carbon disulfide	104	(58 - 150)			SW846 VOST
	103	(58 - 150)	1.4	(0-25)	SW846 VOST
Carbon tetrachloride	95	(61 - 150)			SW846 VOST
	96	(61 - 150)	0.41	(0-25)	SW846 VOST
Chlorobenzene	**78**	**(70 - 116)**			**SW846 VOST**
	82	**(70 - 116)**	**4.4**	**(0-25)**	**SW846 VOST**
Chlorodibromomethane	64	(50 - 116)			SW846 VOST
	69	(50 - 116)	6.2	(0-25)	SW846 VOST
Chloroethane	96	(30 - 150)			SW846 VOST
	98	(30 - 150)	1.7	(0-25)	SW846 VOST
Chloroform	91	(60 - 132)			SW846 VOST
	94	(60 - 132)	3.2	(0-25)	SW846 VOST
Chloromethane	111	(30 - 170)			SW846 VOST
	104	(30 - 170)	6.3	(0-25)	SW846 VOST
2-Chlorotoluene	78	(50 - 122)			SW846 VOST
	78	(50 - 122)	0.51	(0-25)	SW846 VOST

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	81	(50 - 119)			SW846 VOST
	81	(50 - 119)	0.060	(0-25)	SW846 VOST
1,2-Dibromo-3-chloro-propane	30	(30 - 110)			SW846 VOST
	34	(30 - 110)	11	(0-25)	SW846 VOST
1,2-Dibromoethane	59	(50 - 111)			SW846 VOST
	62	(50 - 111)	5.9	(0-25)	SW846 VOST
Dibromomethane	77	(50 - 118)			SW846 VOST
	79	(50 - 118)	2.7	(0-25)	SW846 VOST
1,2-Dichlorobenzene	62	(50 - 108)			SW846 VOST
	64	(50 - 108)	3.1	(0-25)	SW846 VOST
1,3-Dichlorobenzene	72	(50 - 113)			SW846 VOST
	72	(50 - 113)	0.47	(0-25)	SW846 VOST
1,4-Dichlorobenzene	70	(50 - 111)			SW846 VOST
	72	(50 - 111)	2.4	(0-25)	SW846 VOST
Dichlorodifluoromethane	103	(30 - 150)			SW846 VOST
	98	(30 - 150)	4.5	(0-25)	SW846 VOST
1,1-Dichloroethane	94	(64 - 134)			SW846 VOST
	97	(64 - 134)	3.0	(0-25)	SW846 VOST
1,2-Dichloroethane	89	(50 - 121)			SW846 VOST
	92	(50 - 121)	3.1	(0-25)	SW846 VOST
cis-1,2-Dichloroethene	86	(60 - 131)			SW846 VOST
	89	(60 - 131)	3.3	(0-25)	SW846 VOST
trans-1,2-Dichloroethene	89	(68 - 140)			SW846 VOST
	89	(68 - 140)	0.54	(0-25)	SW846 VOST
1,1-Dichloroethene	**101**	**(63 - 150)**			**SW846 VOST**
	99	**(63 - 150)**	**2.2**	**(0-25)**	**SW846 VOST**
1,2-Dichloropropane	88	(56 - 124)			SW846 VOST
	91	(56 - 124)	3.4	(0-25)	SW846 VOST
1,3-Dichloropropane	66	(50 - 113)			SW846 VOST
	69	(50 - 113)	4.6	(0-25)	SW846 VOST
2,2-Dichloropropane	62 a	(66 - 150)			SW846 VOST
	65 a	(66 - 150)	4.0	(0-25)	SW846 VOST
cis-1,3-Dichloropropene	80	(50 - 128)			SW846 VOST
	84	(50 - 128)	4.9	(0-25)	SW846 VOST
trans-1,3-Dichloropropene	62	(50 - 116)			SW846 VOST
	68	(50 - 116)	7.9	(0-25)	SW846 VOST
1,1-Dichloropropene	103	(75 - 149)			SW846 VOST
	101	(75 - 149)	1.4	(0-25)	SW846 VOST
Ethylbenzene	87	(66 - 129)			SW846 VOST
	89	(66 - 129)	2.4	(0-25)	SW846 VOST

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	74	(50 - 150)			SW846 VOST
	76	(50 - 150)	3.6	(0-25)	SW846 VOST
2-Hexanone	57	(30 - 133)			SW846 VOST
	67	(30 - 133)	16	(0-25)	SW846 VOST
Iodomethane	92	(50 - 150)			SW846 VOST
	92	(50 - 150)	0.65	(0-25)	SW846 VOST
Isopropylbenzene	90	(62 - 137)			SW846 VOST
	91	(62 - 137)	0.92	(0-25)	SW846 VOST
p-Isopropyltoluene	93	(57 - 131)			SW846 VOST
	90	(57 - 131)	3.3	(0-25)	SW846 VOST
Methylene chloride	83	(50 - 149)			SW846 VOST
	84	(50 - 149)	0.98	(0-25)	SW846 VOST
4-Methyl-2-pentanone	68	(30 - 120)			SW846 VOST
	76	(30 - 120)	10	(0-25)	SW846 VOST
Naphthalene	76	(30 - 120)			SW846 VOST
	80	(30 - 120)	5.3	(0-25)	SW846 VOST
n-Propylbenzene	94	(56 - 136)			SW846 VOST
	91	(56 - 136)	2.8	(0-25)	SW846 VOST
Styrene	73	(50 - 122)			SW846 VOST
	75	(50 - 122)	3.8	(0-25)	SW846 VOST
1,1,1,2-Tetrachloroethane	63	(50 - 115)			SW846 VOST
	66	(50 - 115)	5.4	(0-25)	SW846 VOST
1,1,2,2-Tetrachloroethane	57	(30 - 110)			SW846 VOST
	60	(30 - 110)	5.2	(0-25)	SW846 VOST
Tetrachloroethene	89	(60 - 142)			SW846 VOST
	90	(60 - 142)	0.54	(0-25)	SW846 VOST
Toluene	**87**	**(64 - 128)**			**SW846 VOST**
	87	**(64 - 128)**	**0.40**	**(0-25)**	**SW846 VOST**
1,2,3-Trichlorobenzene	73	(30 - 106)			SW846 VOST
	78	(30 - 106)	6.7	(0-25)	SW846 VOST
1,2,4-Trichloro-benzene	69	(30 - 116)			SW846 VOST
	76	(30 - 116)	9.7	(0-25)	SW846 VOST
1,1,1-Trichloroethane	99	(64 - 150)			SW846 VOST
	98	(64 - 150)	0.56	(0-25)	SW846 VOST
1,1,2-Trichloroethane	64	(50 - 112)			SW846 VOST
	67	(50 - 112)	4.7	(0-25)	SW846 VOST
Trichloroethene	**95**	**(72 - 150)**			**SW846 VOST**
	96	**(72 - 150)**	**1.5**	**(0-25)**	**SW846 VOST**
Trichlorofluoromethane	98	(30 - 150)			SW846 VOST
	97	(30 - 150)	0.70	(0-25)	SW846 VOST

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,3-Trichloropropane	51	(30 - 110)			SW846 VOST
	54	(30 - 110)	5.2	(0-25)	SW846 VOST
1,2,4-Trimethylbenzene	91	(50 - 125)			SW846 VOST
	91	(50 - 125)	0.65	(0-25)	SW846 VOST
1,3,5-Trimethylbenzene	94	(53 - 130)			SW846 VOST
	93	(53 - 130)	1.4	(0-25)	SW846 VOST
Vinyl chloride	105	(61 - 150)			SW846 VOST
	104	(61 - 150)	0.67	(0-25)	SW846 VOST
m-Xylene & p-Xylene	88	(62 - 131)			SW846 VOST
	89	(62 - 131)	1.0	(0-25)	SW846 VOST
o-Xylene	81	(56 - 121)			SW846 VOST
	83	(56 - 121)	2.7	(0-25)	SW846 VOST
Xylenes (total)	86	(60 - 127)			SW846 VOST
	87	(60 - 127)	1.6	(0-25)	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(50 - 134)
	80	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
	79	(50 - 134)
Toluene-d8	73	(57 - 127)
	75	(57 - 127)
Bromofluorobenzene	64	(50 - 125)
	64	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	1.00	1.28	ug	128		SW846 VOST
	1.00	1.27	ug	127	0.55	SW846 VOST
Acrylonitrile	5.00	2.63	ug	53		SW846 VOST
	5.00	2.69	ug	54	2.1	SW846 VOST
Benzene	**0.250**	**0.231**	**ug**	**92**		**SW846 VOST**
	0.250	**0.231**	**ug**	**92**	**0.020**	**SW846 VOST**
Bromobenzene	0.250	0.176	ug	70		SW846 VOST
	0.250	0.185	ug	74	5.4	SW846 VOST
Bromochloromethane	0.250	0.190	ug	76		SW846 VOST
	0.250	0.192	ug	77	0.92	SW846 VOST
Bromodichloromethane	0.250	0.213	ug	85		SW846 VOST
	0.250	0.224	ug	89	4.9	SW846 VOST
Bromoform	0.250	0.141	ug	56		SW846 VOST
	0.250	0.149	ug	59	5.1	SW846 VOST
Bromomethane	0.250	0.234	ug	94		SW846 VOST
	0.250	0.230	ug	92	1.5	SW846 VOST
2-Butanone	1.00	0.570	ug	57		SW846 VOST
	1.00	0.674	ug	67	17	SW846 VOST
n-Butylbenzene	0.250	0.277	ug	111		SW846 VOST
	0.250	0.268	ug	107	3.3	SW846 VOST
sec-Butylbenzene	0.250	0.238	ug	95		SW846 VOST
	0.250	0.231	ug	93	3.0	SW846 VOST
tert-Butylbenzene	0.250	0.217	ug	87		SW846 VOST
	0.250	0.212	ug	85	2.4	SW846 VOST
Carbon disulfide	0.250	0.261	ug	104		SW846 VOST
	0.250	0.257	ug	103	1.4	SW846 VOST
Carbon tetrachloride	0.250	0.239	ug	95		SW846 VOST
	0.250	0.240	ug	96	0.41	SW846 VOST
Chlorobenzene	**0.250**	**0.195**	**ug**	**78**		**SW846 VOST**
	0.250	**0.204**	**ug**	**82**	**4.4**	**SW846 VOST**
Chlorodibromomethane	0.250	0.161	ug	64		SW846 VOST
	0.250	0.171	ug	69	6.2	SW846 VOST
Chloroethane	0.250	0.241	ug	96		SW846 VOST
	0.250	0.245	ug	98	1.7	SW846 VOST
Chloroform	0.250	0.228	ug	91		SW846 VOST
	0.250	0.235	ug	94	3.2	SW846 VOST
Chloromethane	0.250	0.276	ug	111		SW846 VOST
	0.250	0.259	ug	104	6.3	SW846 VOST
2-Chlorotoluene	0.250	0.196	ug	78		SW846 VOST
	0.250	0.195	ug	78	0.51	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorotoluene	0.250	0.202	ug	81		SW846 VOST
	0.250	0.202	ug	81	0.060	SW846 VOST
1,2-Dibromo-3-chloro-propane	0.250	0.0758	ug	30		SW846 VOST
	0.250	0.0844	ug	34	11	SW846 VOST
1,2-Dibromoethane	0.250	0.147	ug	59		SW846 VOST
	0.250	0.156	ug	62	5.9	SW846 VOST
Dibromomethane	0.250	0.192	ug	77		SW846 VOST
	0.250	0.197	ug	79	2.7	SW846 VOST
1,2-Dichlorobenzene	0.250	0.155	ug	62		SW846 VOST
	0.250	0.160	ug	64	3.1	SW846 VOST
1,3-Dichlorobenzene	0.250	0.179	ug	72		SW846 VOST
	0.250	0.180	ug	72	0.47	SW846 VOST
1,4-Dichlorobenzene	0.250	0.176	ug	70		SW846 VOST
	0.250	0.180	ug	72	2.4	SW846 VOST
Dichlorodifluoromethane	0.250	0.257	ug	103		SW846 VOST
	0.250	0.246	ug	98	4.5	SW846 VOST
1,1-Dichloroethane	0.250	0.236	ug	94		SW846 VOST
	0.250	0.243	ug	97	3.0	SW846 VOST
1,2-Dichloroethane	0.250	0.222	ug	89		SW846 VOST
	0.250	0.229	ug	92	3.1	SW846 VOST
cis-1,2-Dichloroethene	0.250	0.214	ug	86		SW846 VOST
	0.250	0.221	ug	89	3.3	SW846 VOST
trans-1,2-Dichloroethene	0.250	0.222	ug	89		SW846 VOST
	0.250	0.223	ug	89	0.54	SW846 VOST
1,1-Dichloroethene	**0.250**	**0.252**	**ug**	**101**		**SW846 VOST**
	0.250	**0.246**	**ug**	**99**	**2.2**	**SW846 VOST**
1,2-Dichloropropane	0.250	0.220	ug	88		SW846 VOST
	0.250	0.228	ug	91	3.4	SW846 VOST
1,3-Dichloropropane	0.250	0.164	ug	66		SW846 VOST
	0.250	0.172	ug	69	4.6	SW846 VOST
2,2-Dichloropropane	0.250	0.155 a	ug	62		SW846 VOST
	0.250	0.162 a	ug	65	4.0	SW846 VOST
cis-1,3-Dichloropropene	0.250	0.201	ug	80		SW846 VOST
	0.250	0.211	ug	84	4.9	SW846 VOST
trans-1,3-Dichloropropene	0.250	0.156	ug	62		SW846 VOST
	0.250	0.169	ug	68	7.9	SW846 VOST
1,1-Dichloropropene	0.250	0.257	ug	103		SW846 VOST
	0.250	0.254	ug	101	1.4	SW846 VOST
Ethylbenzene	0.250	0.218	ug	87		SW846 VOST
	0.250	0.223	ug	89	2.4	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorobutadiene	0.250	0.184	ug	74		SW846 VOST
	0.250	0.191	ug	76	3.6	SW846 VOST
2-Hexanone	1.00	0.575	ug	57		SW846 VOST
	1.00	0.674	ug	67	16	SW846 VOST
Iodomethane	0.250	0.229	ug	92		SW846 VOST
	0.250	0.231	ug	92	0.65	SW846 VOST
Isopropylbenzene	0.250	0.226	ug	90		SW846 VOST
	0.250	0.228	ug	91	0.92	SW846 VOST
p-Isopropyltoluene	0.250	0.233	ug	93		SW846 VOST
	0.250	0.225	ug	90	3.3	SW846 VOST
Methylene chloride	0.250	0.207	ug	83		SW846 VOST
	0.250	0.209	ug	84	0.98	SW846 VOST
4-Methyl-2-pentanone	1.00	0.683	ug	68		SW846 VOST
	1.00	0.759	ug	76	10	SW846 VOST
Naphthalene	0.250	0.190	ug	76		SW846 VOST
	0.250	0.200	ug	80	5.3	SW846 VOST
n-Propylbenzene	0.250	0.234	ug	94		SW846 VOST
	0.250	0.228	ug	91	2.8	SW846 VOST
Styrene	0.250	0.182	ug	73		SW846 VOST
	0.250	0.189	ug	75	3.8	SW846 VOST
1,1,1,2-Tetrachloroethane	0.250	0.156	ug	63		SW846 VOST
	0.250	0.165	ug	66	5.4	SW846 VOST
1,1,2,2-Tetrachloroethane	0.250	0.141	ug	57		SW846 VOST
	0.250	0.149	ug	60	5.2	SW846 VOST
Tetrachloroethene	0.250	0.223	ug	89		SW846 VOST
	0.250	0.224	ug	90	0.54	SW846 VOST
Toluene	**0.250**	**0.217**	**ug**	**87**		**SW846 VOST**
	0.250	**0.217**	**ug**	**87**	**0.40**	**SW846 VOST**
1,2,3-Trichlorobenzene	0.250	0.182	ug	73		SW846 VOST
	0.250	0.194	ug	78	6.7	SW846 VOST
1,2,4-Trichloro-benzene	0.250	0.173	ug	69		SW846 VOST
	0.250	0.191	ug	76	9.7	SW846 VOST
1,1,1-Trichloroethane	0.250	0.247	ug	99		SW846 VOST
	0.250	0.245	ug	98	0.56	SW846 VOST
1,1,2-Trichloroethane	0.250	0.159	ug	64		SW846 VOST
	0.250	0.167	ug	67	4.7	SW846 VOST
Trichloroethene	**0.250**	**0.237**	**ug**	**95**		**SW846 VOST**
	0.250	**0.241**	**ug**	**96**	**1.5**	**SW846 VOST**
Trichlorofluoromethane	0.250	0.244	ug	98		SW846 VOST
	0.250	0.242	ug	97	0.70	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2,3-Trichloropropane	0.250	0.128	ug	51		SW846 VOST
	0.250	0.135	ug	54	5.2	SW846 VOST
1,2,4-Trimethylbenzene	0.250	0.227	ug	91		SW846 VOST
	0.250	0.229	ug	91	0.65	SW846 VOST
1,3,5-Trimethylbenzene	0.250	0.235	ug	94		SW846 VOST
	0.250	0.231	ug	93	1.4	SW846 VOST
Vinyl chloride	0.250	0.262	ug	105		SW846 VOST
	0.250	0.260	ug	104	0.67	SW846 VOST
m-Xylene & p-Xylene	0.500	0.439	ug	88		SW846 VOST
	0.500	0.444	ug	89	1.0	SW846 VOST
o-Xylene	0.250	0.202	ug	81		SW846 VOST
	0.250	0.208	ug	83	2.7	SW846 VOST
Xylenes (total)	0.750	0.641	ug	86		SW846 VOST
	0.750	0.651	ug	87	1.6	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(50 - 134)
	80	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
	79	(50 - 134)
Toluene-d8	73	(57 - 127)
	75	(57 - 127)
Bromofluorobenzene	64	(50 - 125)
	64	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: 1460030169
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Volatile Organic Compounds (VOCs)	14 Days to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2908-R1-VOST Pair #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-2909-R1-VOST Pair #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-2910-R1-VOST Pair #1, Run #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2911-R1-VOST Pair #1, Run #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2912-R1-VOST Pair #1, Run #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2913-R1-VOST Pair #1, Run #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2914-R1-VOST Pair #1, Run #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2915-R1-VOST Pair #1, Run #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2916-R1-VOST Condensate	3-28-06		2 X 40 mL VOA Vials	**VOST Condensate Sample - Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2917-R1-VOST Tenax FB	3-28-06		Tenax Tube	**Tenax Tube - Field Blank Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2918-R1-VOST Tenax/Charcoal FB	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Field Blank, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3006-R2-VOST Pair #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3007-R2-VOST Pair #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-3008-R2-VOST Pair #1, Run #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3009-R2-VOST Pair #1, Run #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3010-R2-VOST Pair #1, Run #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3011-R2-VOST Pair #1, Run #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3012-R2-VOST Pair #1, Run #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3013-R2-VOST Pair #1, Run #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3014-R2-VOST Condensate	3-29-06		2 X 40 mL VOA Vials	**VOST Condensate Sample - Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3015-R2-VOST Tenax FB	3-29-06		Tenax Tube	**Tenax Tube - Field Blank Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3016-R2-VOST Tenax/Charcoal FB	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Field Blank, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3089-R3-VOST Pair #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-3090-R3-VOST Pair #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-3091-R3-VOST Pair #1, Run #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3092-R3-VOST Pair #1, Run #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3093-R3-VOST Pair #1, Run #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3094-R3-VOST Pair #1, Run #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3095-R3-VOST Pair #1, Run #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3096-R3-VOST Pair #1, Run #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3097-R3-VOST Condensate	3-30-06		2 X 40 mL VOA Vials	**VOST Condensate Sample Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3098-R3-VOST Tenax FB	3-30-06		Tenax Tube	**Tenax Tube - Field Blank Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3099-R3-VOST Tenax/Charcoal FB	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Field Blank, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3100-R3-VOST Tenax TB	3-30-06		Tenax Tube	**Tenax Tube - Trip Blank Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3101-R3-VOST Tenax/Charcoal TB	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Trip Blank, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3102-R3-VOST DI Water TB	3-30-06		40 mL VOA Vial	**VOST Deionized Water Trip Blank, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

H6D030169

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	NONE
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	6°C
(3) Record any apparent sample loss/breakage.	NONE
(4) Record any unidentified samples transported with this shipment of samples:	NONE
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	HAND DELIVERED / NO CUSTODY SEALS

Custody Transfer:

	Name	Company	Date/Time
Relinquished By:			
Accepted By:	[illegible]	STL	4-2-06 16:25
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

1 of 2

Client: STL KNOXVILLE **Project:** WESTATES CARBON CPT **Lot Number:** HBD130169

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14A
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?	✓			☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: 64357 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 4-3-06

QA026R18.doc, 1/30/06

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: ENVIRONMENTAL ANALYTICAL SERVICE **Project:** _____ **Lot Number:** H6D030169

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)			✓	☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☑ 1f COC not received ☐ 1g Other:	RECEIVED BY: Bryan Vannoy 4-4-06 09:30 NO CUSTODY SEALS RECEIVED AT 21°C AKD 4-4-06 1 COOLER UPS# 1Z91X2110147109061
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)		✓		☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = 21°C	IF, NO COC RECEIVED
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?			✓	☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?		✓	✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?			✓	☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)			✓	☑ 14a Not relinquished	
15. Are tests/parameters listed for each sample?			✓	☑ 15a Incomplete information	
16. Is the matrix of the samples noted?			✓	☑ 15a Incomplete information	
17. Is the date/time of sample collection noted?			✓	☑ 15a Incomplete information	
18. Is the client and project name/# identified?			✓	☑ 15a Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: _____ QA026R18.doc, 1/30/06

Volatiles

Raw Sample Data

STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 **Work Order #...:** H2G871AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0092 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.030**	**0.010**	**ug**	**0.0016**
Bromoform	**0.13**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0078 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0037 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**5.8 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.086**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.020**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.0087 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 **Work Order #...:** H2G871AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.069**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	**0.0028 J**	**0.010**	**ug**	**0.0010**
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**4.7 E**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.078**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0081 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0049 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0049 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(50 - 134)
1,2-Dichloroethane-d4	91	(50 - 134)
Toluene-d8	76	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-003 **Work Order #:** H2G871AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d
Report Date: 07-Apr-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2g871aa.d
Lab Smp Id: H2G871AA Client Smp ID: G-2910-R1-VOST PAIR
Inj Date : 07-APR-2006 12:06
Operator : 22980 Inst ID: mx.i
Smp Info : H2G871AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/19/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1209720	10.0000	
* 2 Chlorobenzene-d5	119	7.589	7.582	(1.000)	248686	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.740	10.746	(1.000)	289189	10.0000	
$ 4 Dibromofluoromethane	113	4.268	4.273	(0.880)	172291	8.37679	0.20942
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	145152	9.05376	0.22634
$ 6 Toluene-d8	98	6.251	6.250	(0.824)	919398	7.55108	0.18878
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	218168	6.36278	0.15907
M 9 Xylene (total)	106				23510	0.42254	0.010563
11 Chloromethane (spcc)	50	1.250	1.262	(0.258)	19564	0.34713	0.0086783
14 Bromomethane	94	1.579	1.590	(0.325)	2137	0.12541	0.0031352
15 Chloroethane	64	1.268	1.669	(0.261)	6116	0.25322	~~0.0063306~~
21 Acetone	43	2.394	2.381	(0.493)	5773	3.36991	0.084248
23 Carbon Disulfide	76	2.497	2.497	(0.515)	28582	0.31002	0.0077506
26 Methylene Chloride	84	2.747	2.746	(0.566)	51882	2.77400	0.069350
33 *Vinyl Acetate	86	3.239	3.421	(0.668)	1377	1.00103	~~0.025026~~
36 2-Butanone	43	3.878	3.871	(0.799)	3020	1.13001	~~0.028250~~ <MDL
38 *THF	42	4.109	4.109	(0.847)	1910	1.16627	0.029157
39 Chloroform (ccc)	83	4.140	4.139	(0.853)	36853	0.80155	0.020039
41 Carbon Tetrachloride	117	4.438	4.437	(0.915)	6509	0.14991	0.0037476
42 1,1-Dichloropropene	75	4.852	4.437	(1.000)	93100	1.94381	~~0.048595~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d
Report Date: 07-Apr-2006 12:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
43 Benzene	78	4.608	4.607	(0.950)	45064	0.36783	0.0091956
44 1,2-Dichloroethane	62	4.852	4.620	(1.000)	21600	1.04774	~~0.026193~~
45 Trichloroethene	130	5.174	5.173	(1.066)	10641	0.32371	0.0080926
48 Dibromomethane	93	5.606	5.459	(1.155)	753	0.10986	~~0.0027466~~
49 Bromodichloromethane	83	5.606	5.605	(1.155)	30579	1.19135	0.029784
51 cis-1,3-Dichloropropene	75	6.312	6.007	(1.301)	3197	0.10638	~~0.0026595~~
52 4-Methyl-2-pentanone	43	6.245	6.147	(1.287)	7455	1.16482	~~0.029120~~
53 Toluene (ccc)	91	6.312	6.311	(0.832)	452750	3.10805	0.077701
54 trans-1,3-Dichloropropene	75	6.312	6.506	(0.832)	3197	0.12525	~~0.0031313~~
56 1,1,2-Trichloroethane	97	6.823	6.670	(0.899)	55059	4.78495	~~0.11962~~
57 Tetrachloroethene	164	6.829	6.816	(0.900)	5855342	187.075	4.6769(A)
59 2-Hexanone	43	6.719	6.907	(0.885)	5659	1.16261	~~0.029065~~
60 Chlorodibromomethane	129	7.036	7.035	(0.927)	49107	3.44452	0.086113
62 Chlorobenzene (spcc)	112	7.620	7.607	(1.004)	17231878	230.440	5.7610(A)
63 1,1,1,2-Tetrachloroethane	131	7.686	7.686	(1.013)	2717	0.11042	0.0027604
64 Ethylbenzene (ccc)	106	7.839	7.716	(1.033)	11755	0.22857	~~0.0057143~~
65 m&p-Xylene	106	7.839	7.838	(1.033)	11755	0.19504	0.0048759
66 o-Xylene	106	7.839	8.251	(1.033)	11755	0.22750	~~0.0056876~~
68 Bromoform (spcc)	173	8.465	8.464	(1.115)	34739	5.04169	0.12604
69 Isopropylbenzene	105	8.684	8.689	(1.144)	9769	0.05895	0.0014738
72 1,1,2,2-Tetrachloroethane(sp)	83	9.238	9.061	(1.217)	1358	0.14874	~~0.0037184~~
73 1,2,3-Trichloropropane	110	9.232	9.115	(0.860)	4553	1.68675	~~0.042169~~
82 1,3-Dichlorobenzene	146	10.789	10.612	(1.005)	2057	0.04224	~~0.0010559~~
90 Napthalene	128	13.946	13.946	(1.298)	1720	0.13713	0.0034282

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d
Report Date: 07-Apr-2006 12:22

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g871aa.d
Lab Smp Id: H2G871AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-2910-R1-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1209720	5.27
2 Chlorobenzene-d5	214194	107097	428388	248686	16.10
3 1,4 Dichlorobenze	242601	121300	485202	289189	19.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.59	0.09
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.05

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.

Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d
Report Date: 07-Apr-2006 12:22

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2G871AA
Client Smp ID: G-2910-R1-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

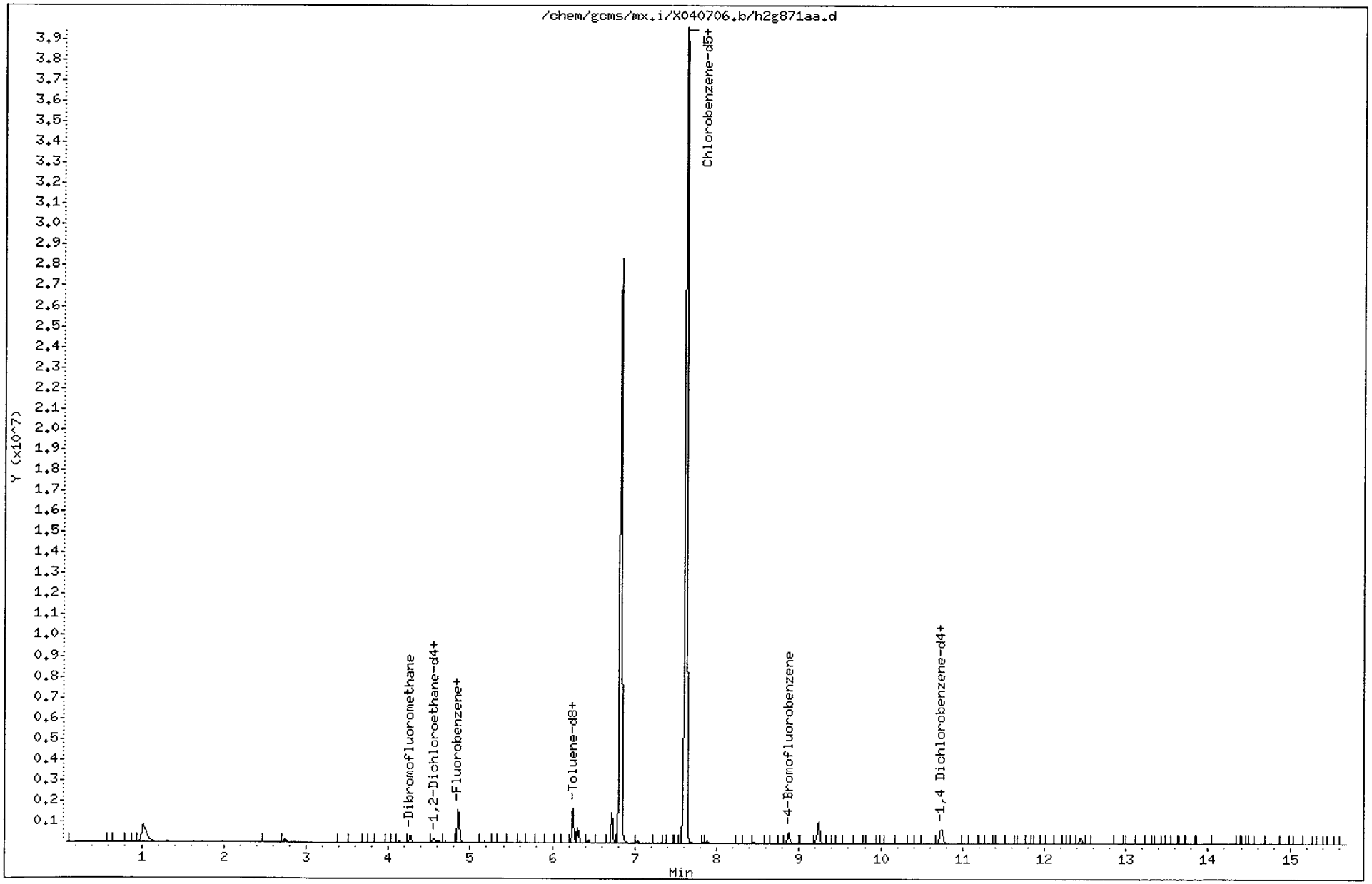
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.20942	83.77	50-150
$ 5 1,2-Dichloroethane	0.25000	0.22634	90.54	50-150
$ 6 Toluene-d8	0.25000	0.18878	75.51	50-150
$ 7 4-Bromofluorobenze	0.25000	0.15907	63.63	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d
Date : 07-APR-2006 12:06
Client ID: G-2910-R1-VOST PAIR
Sample Info: H2G871AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

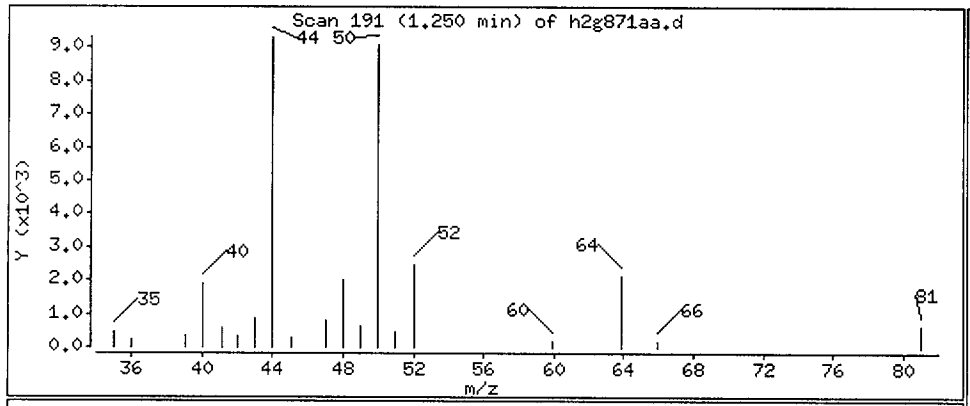
Operator: 22980

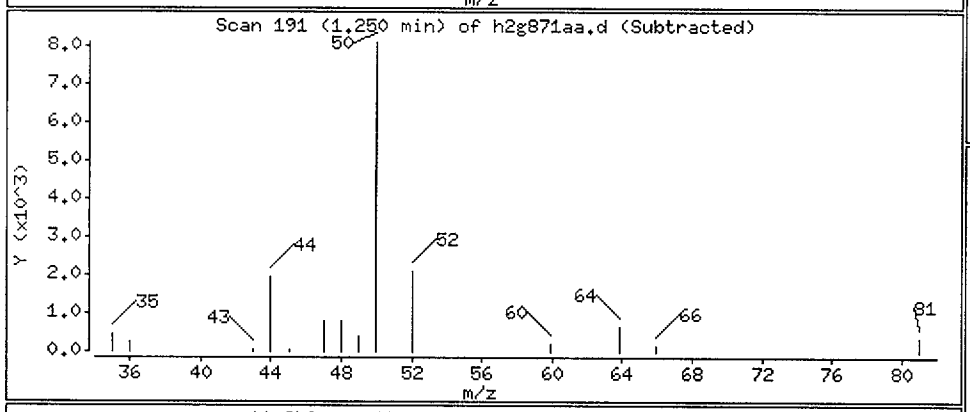
Column phase: J+W 624

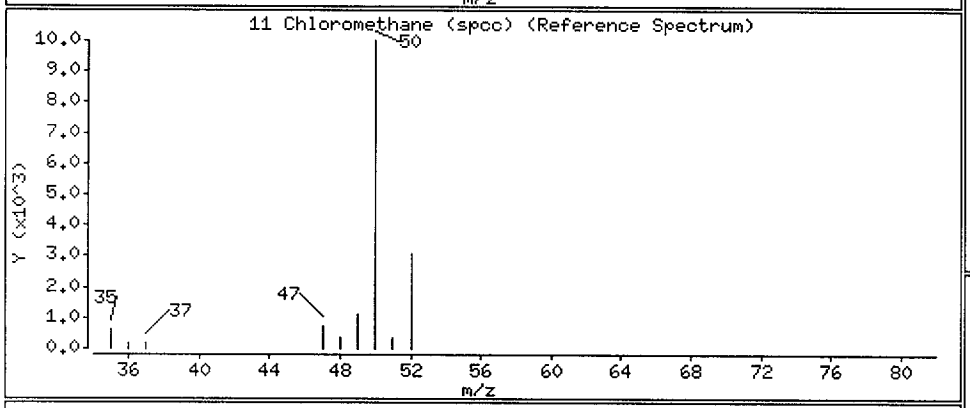
Column diameter: 0.18

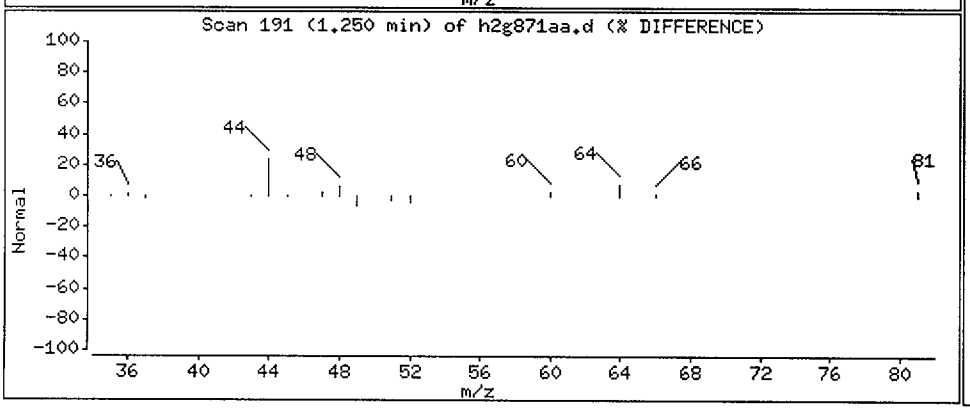
11 Chloromethane (spcc)

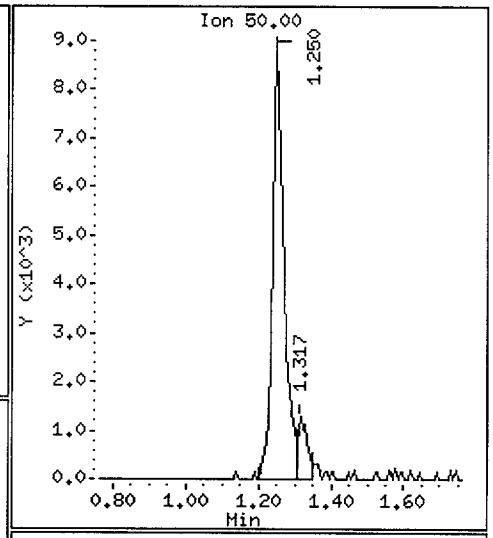
Concentration: 0.0086783 ug

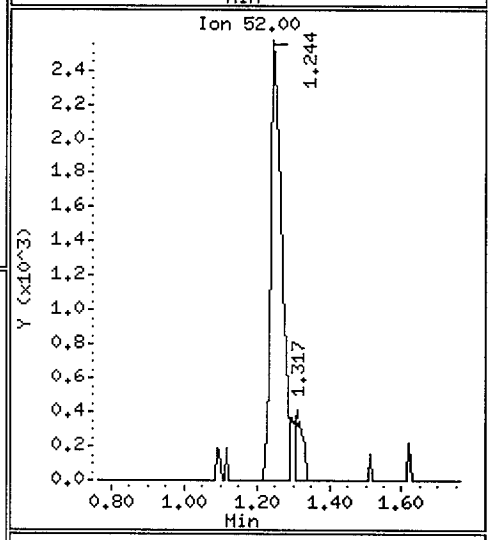


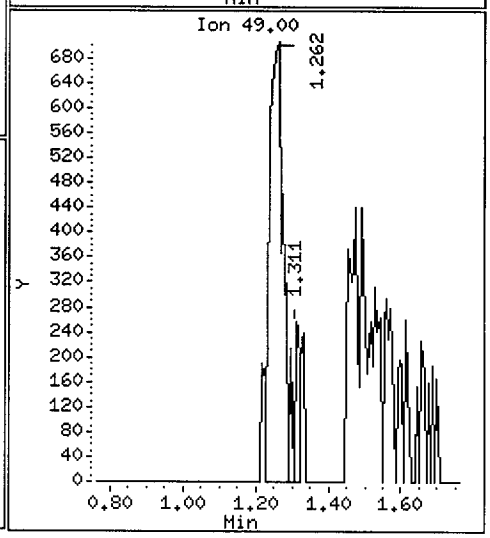












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

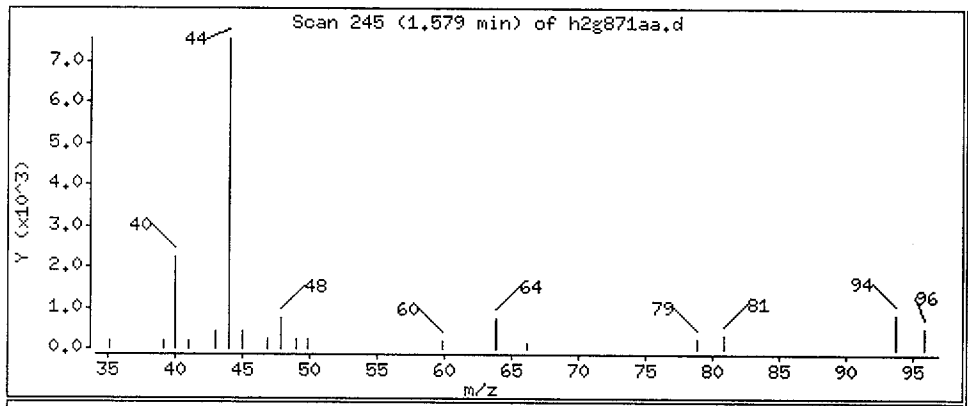
Operator: 22980

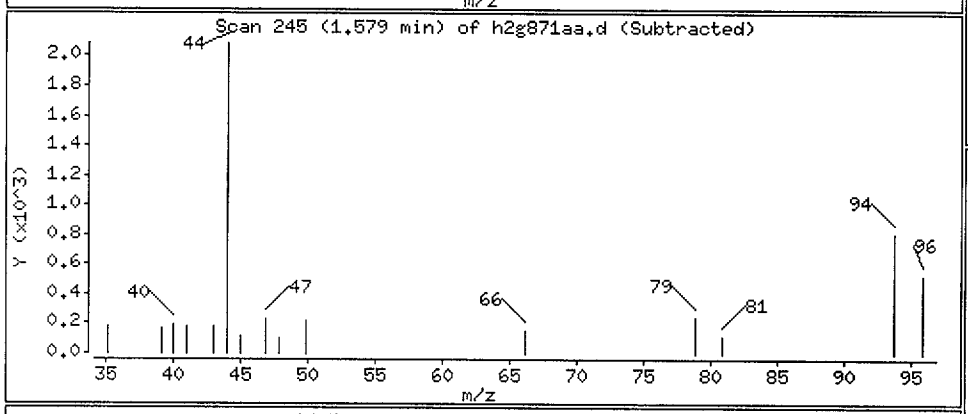
Column phase: J+W 624

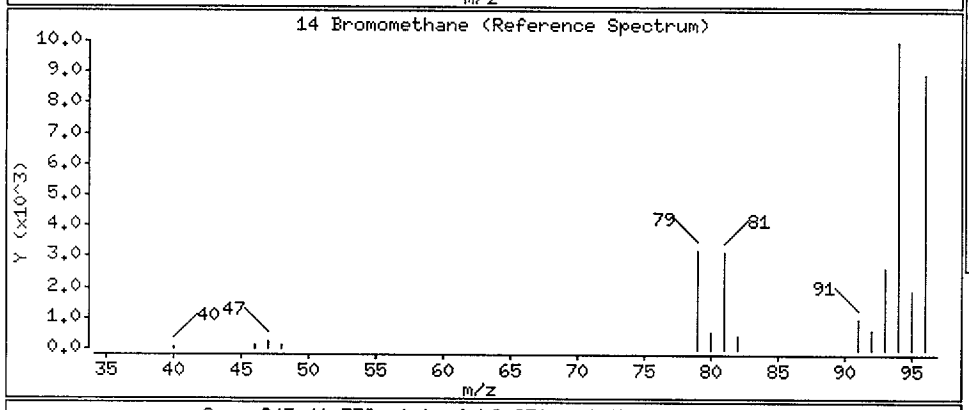
Column diameter: 0.18

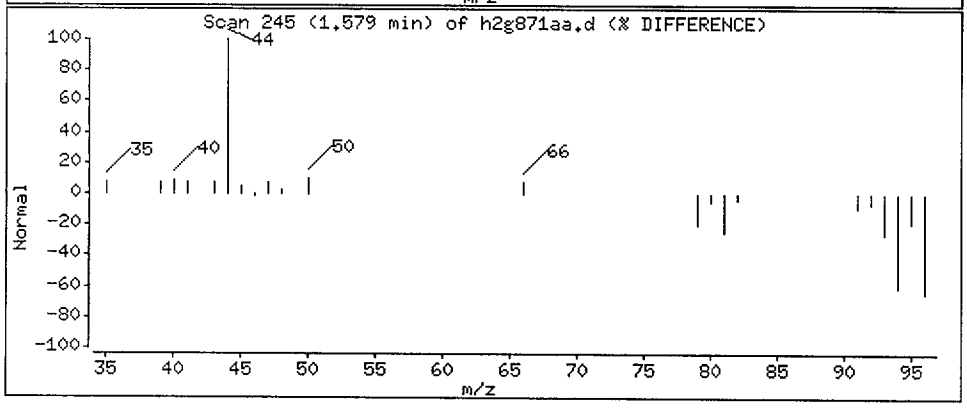
14 Bromomethane

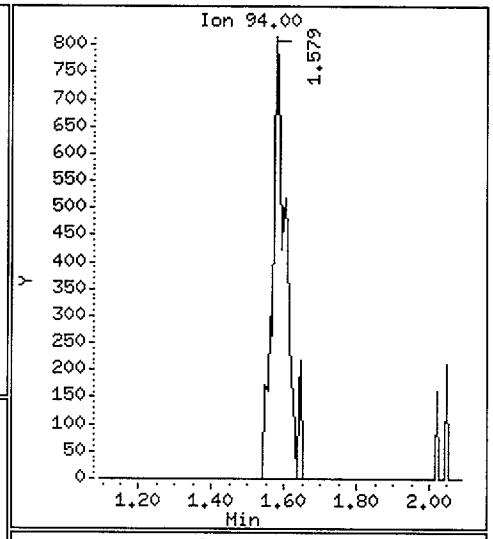
Concentration: 0.0031352 ug

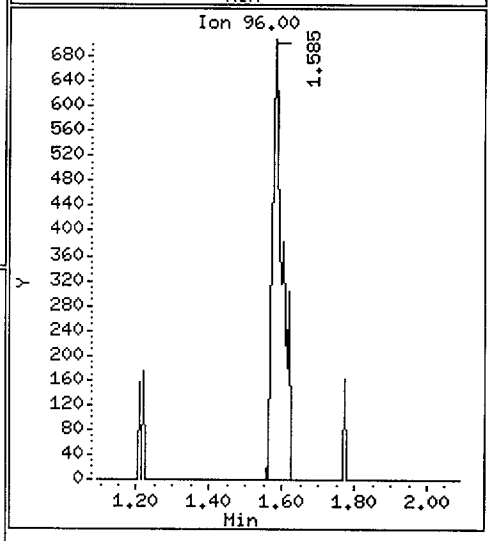












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

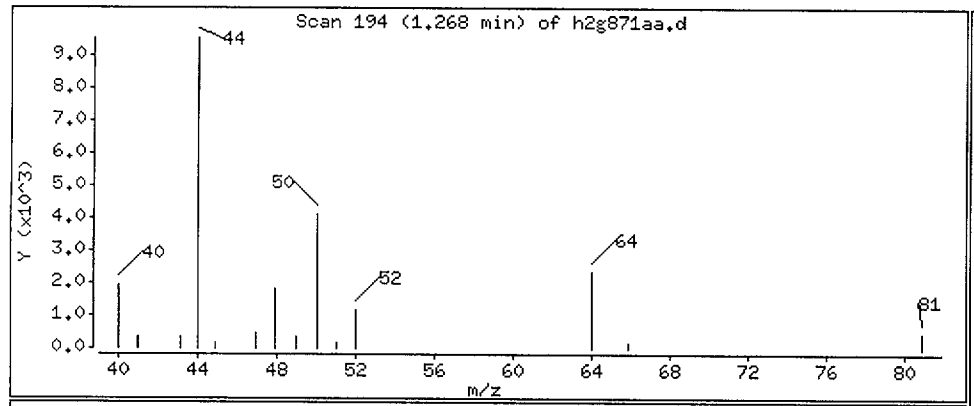
Operator: 22980

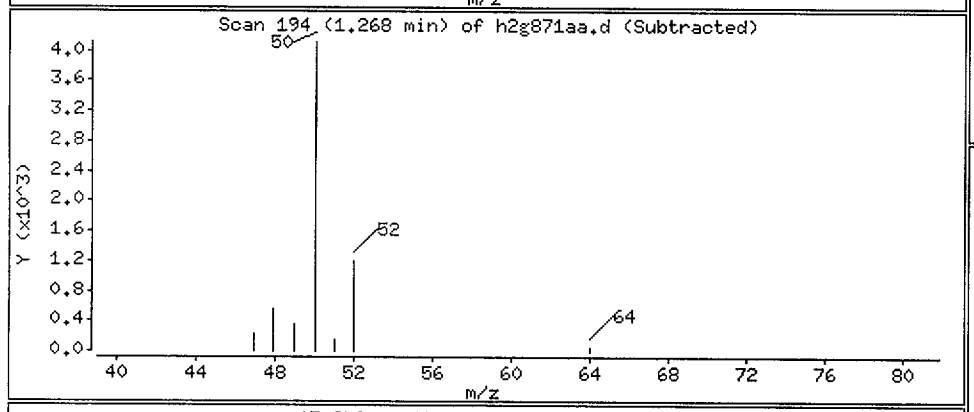
Column phase: J+W 624

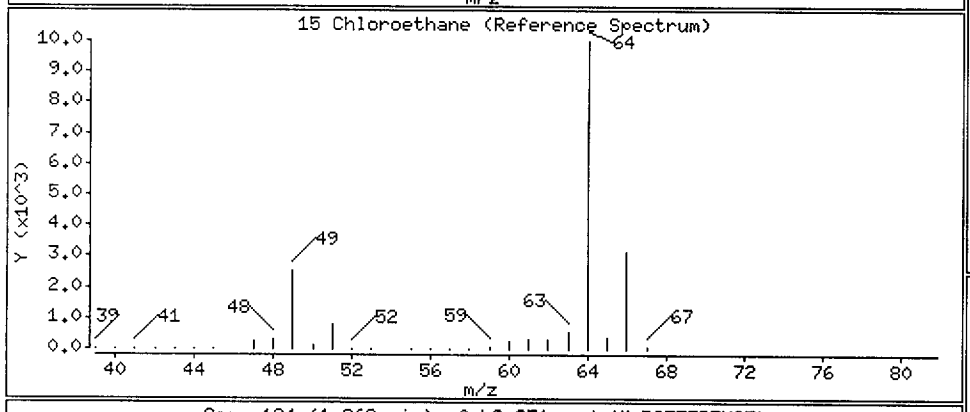
Column diameter: 0.18

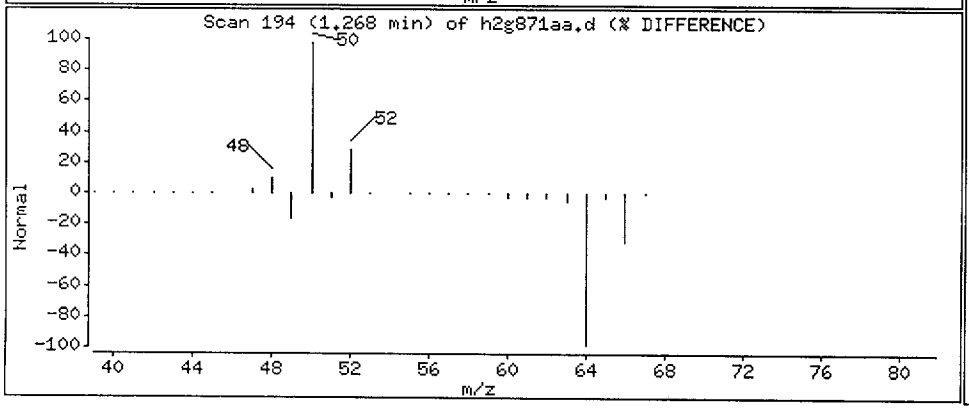
15 Chloroethane

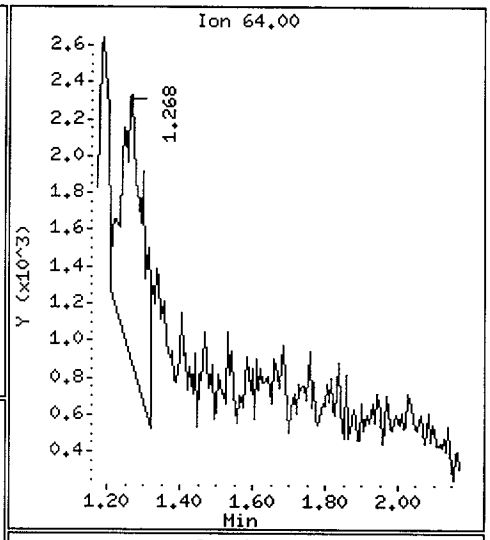
Concentration: 0.0063306 ug

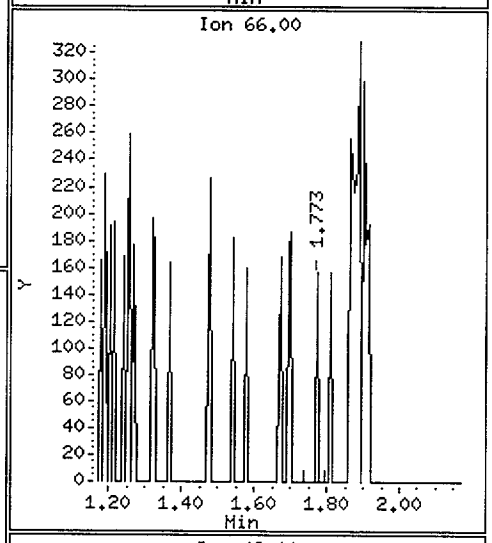


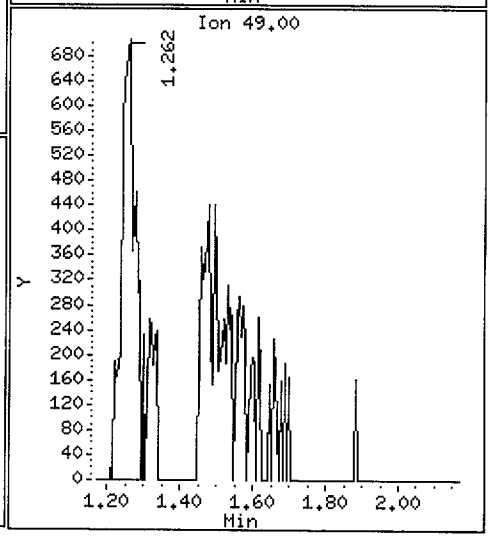












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

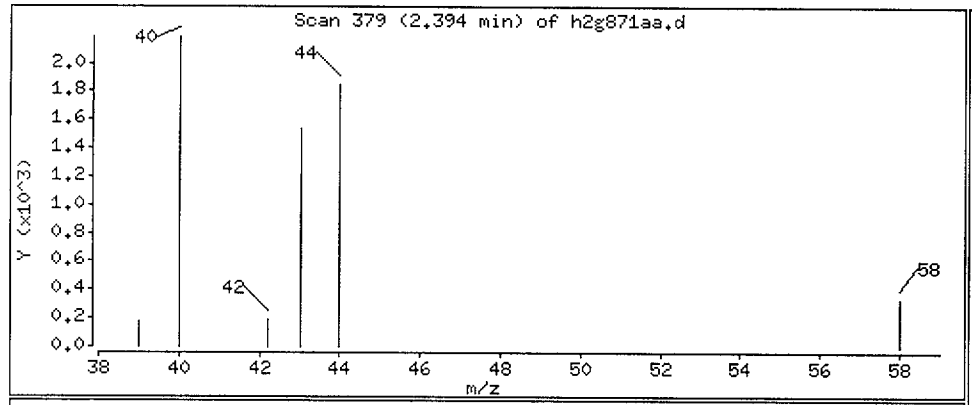
Operator: 22980

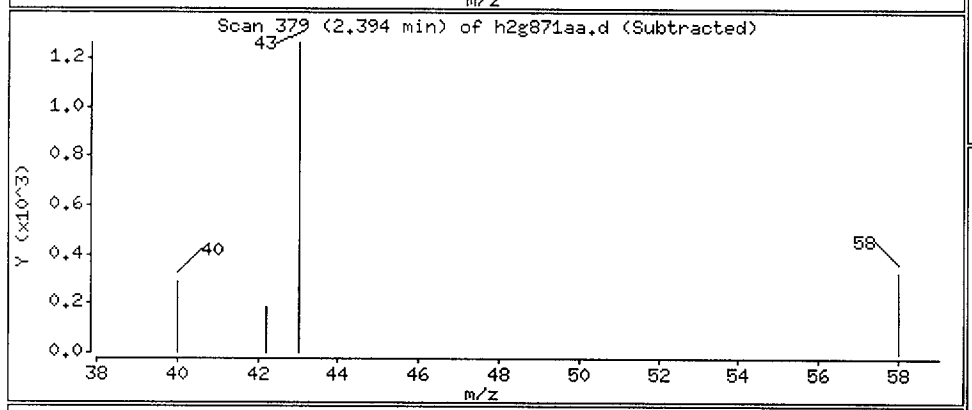
Column phase: J+W 624

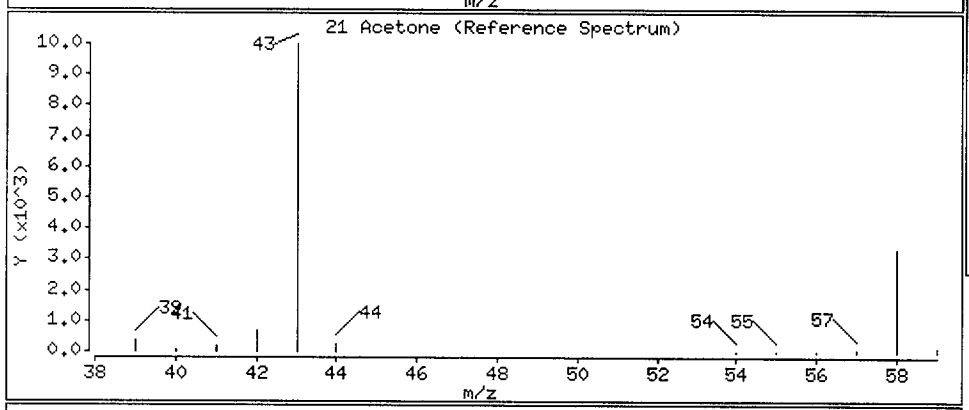
Column diameter: 0.18

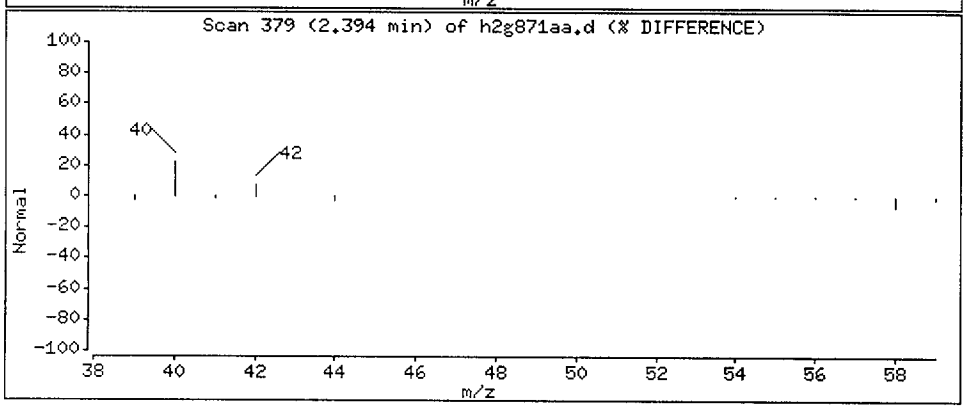
21 Acetone

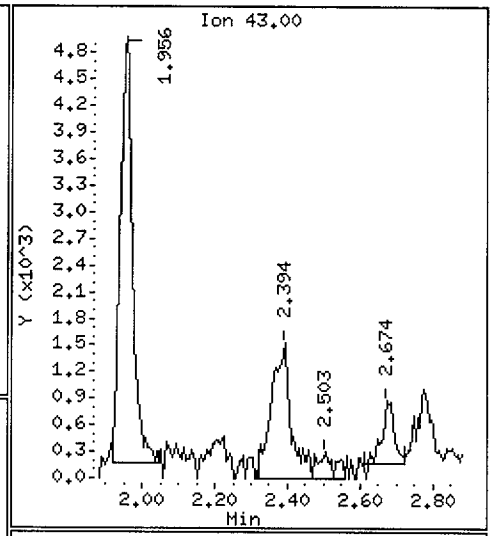
Concentration: 0.084248 ug

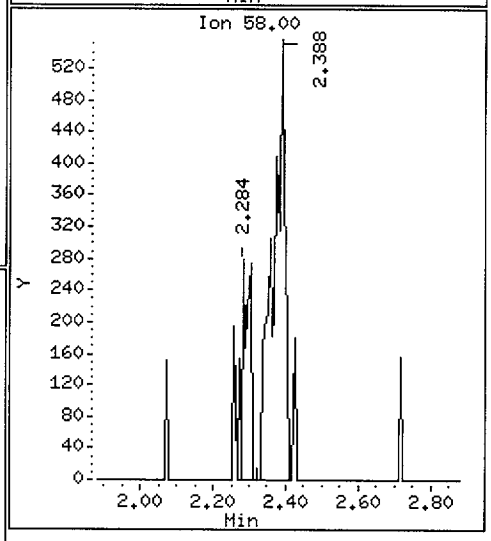












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

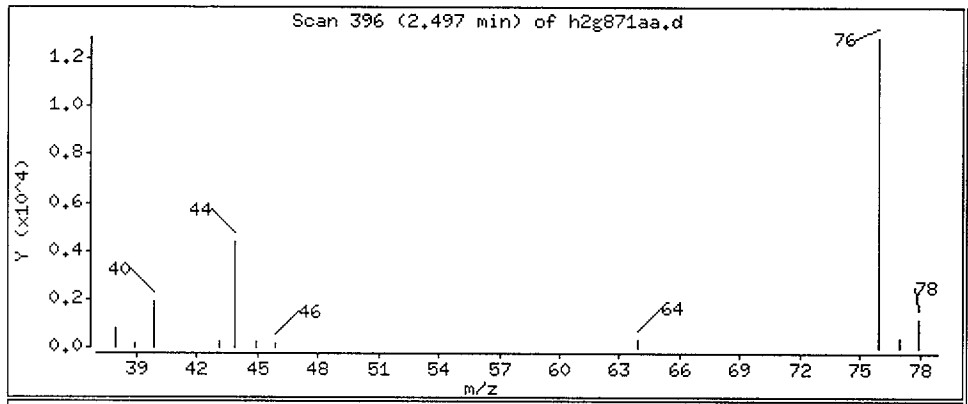
Operator: 22980

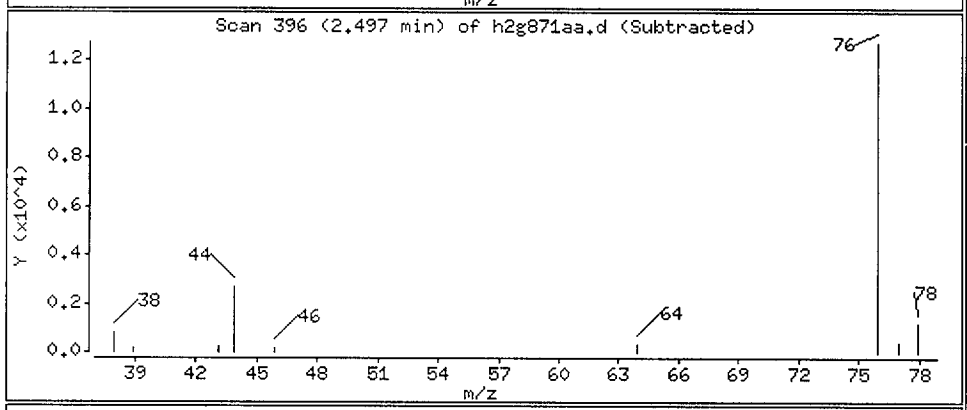
Column phase: J+W 624

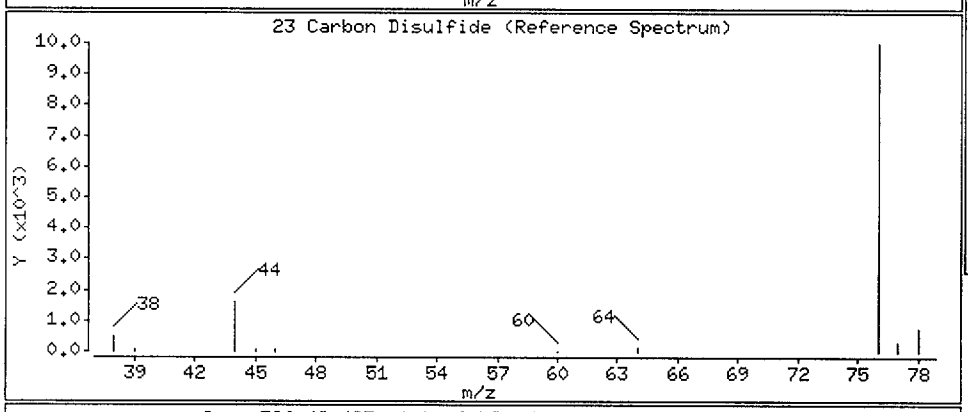
Column diameter: 0.18

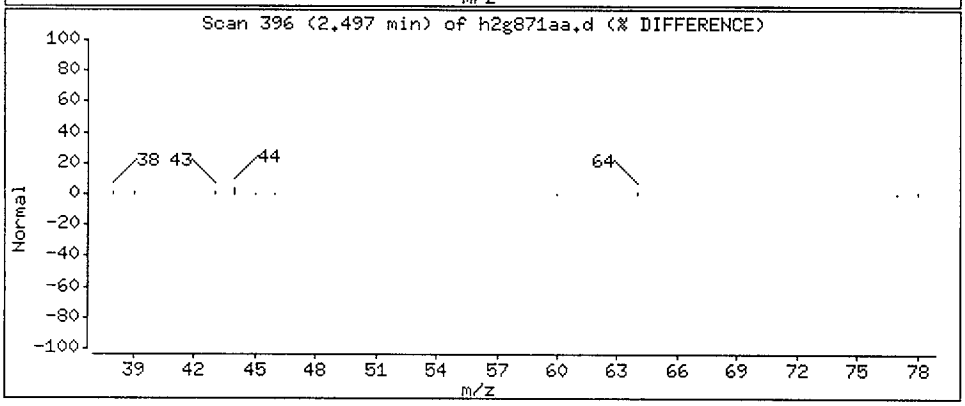
23 Carbon Disulfide

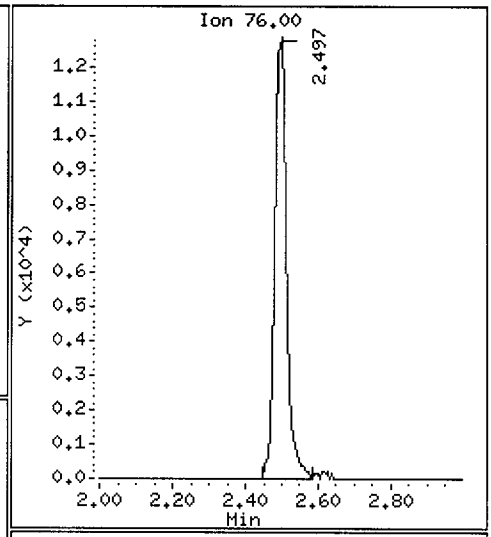
Concentration: 0.0077506 ug

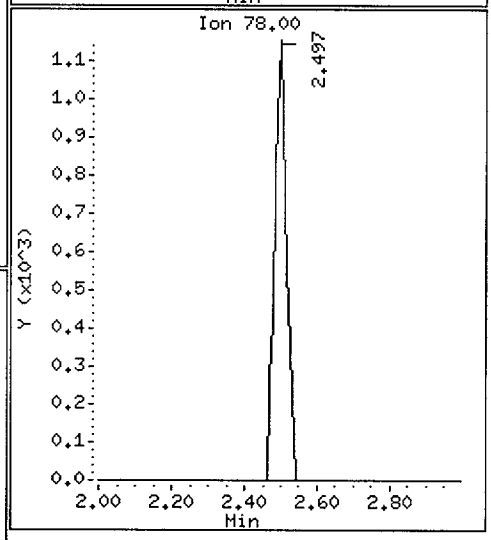












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

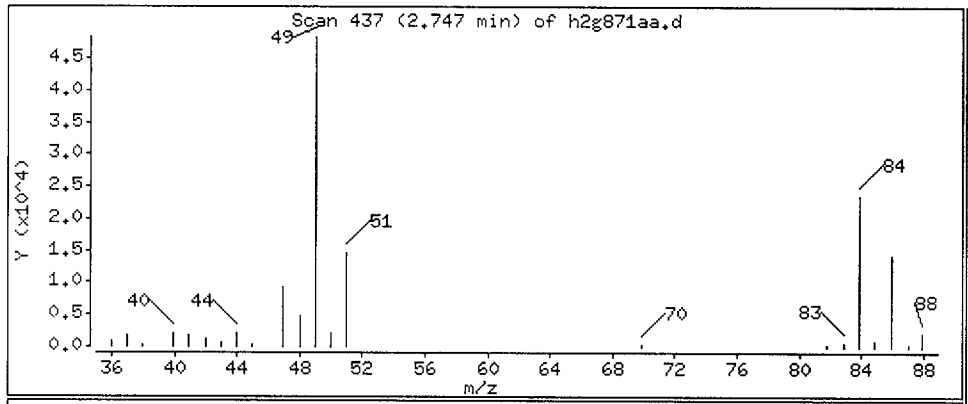
Operator: 22980

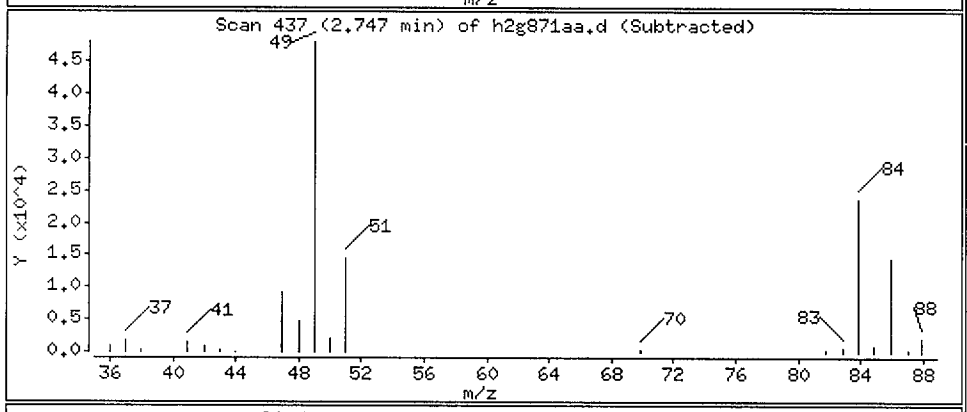
Column phase: J+W 624

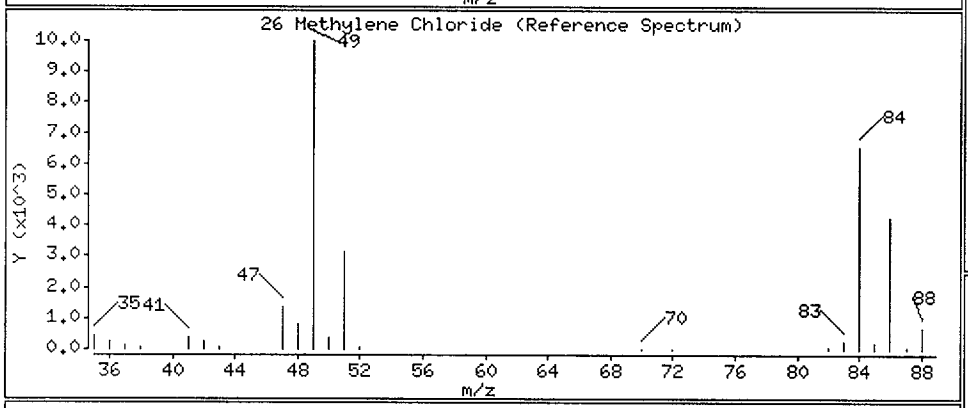
Column diameter: 0.18

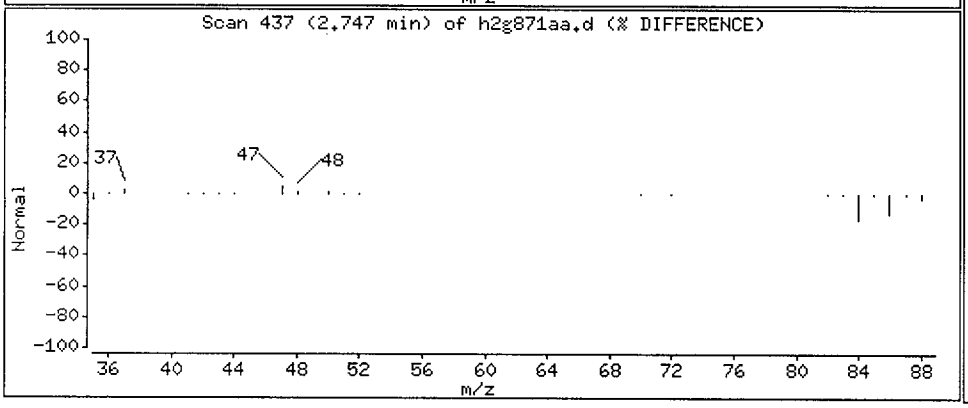
26 Methylene Chloride

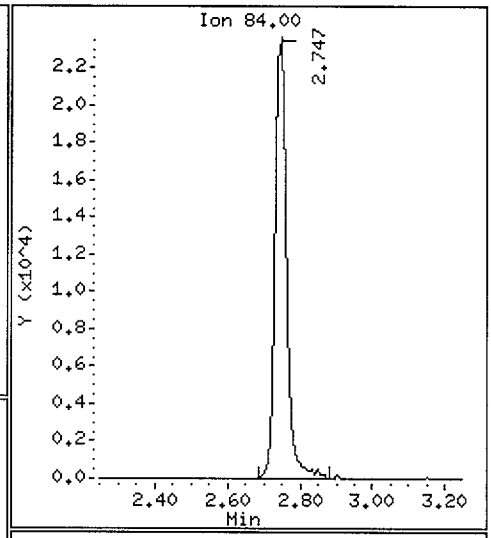
Concentration: 0.069350 ug

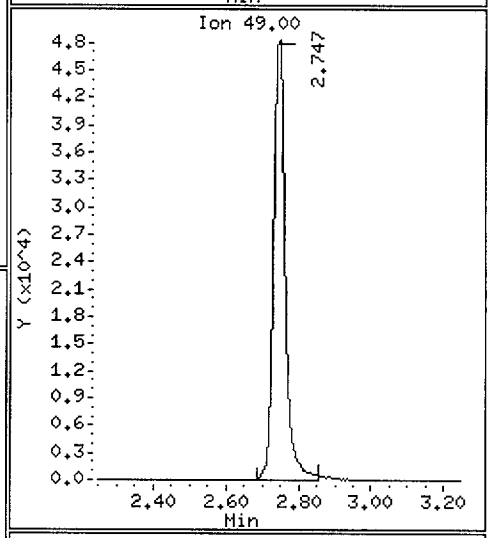


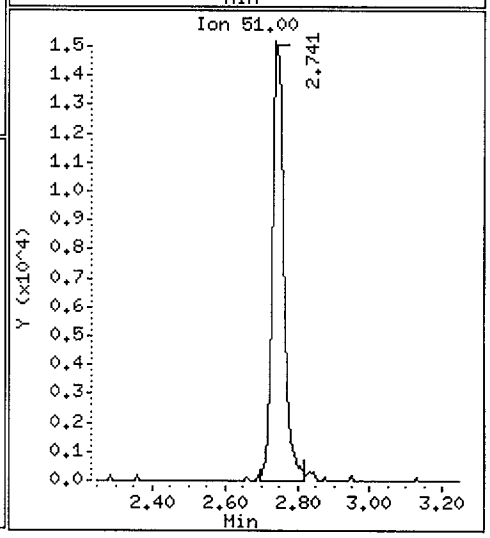












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

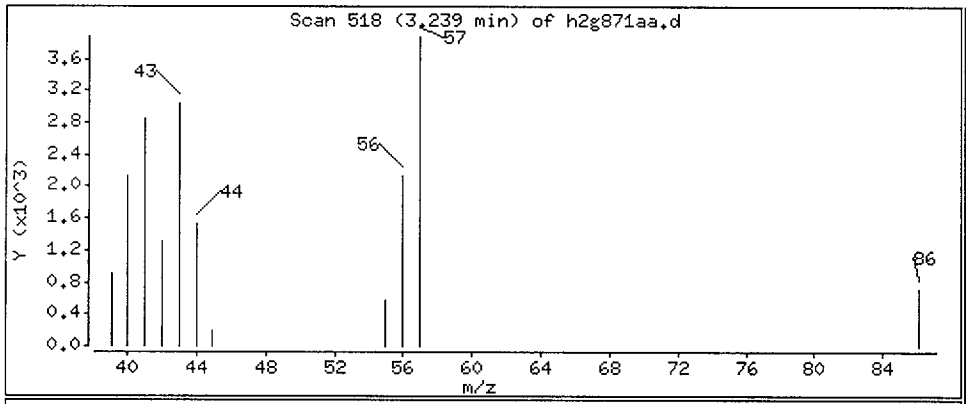
Operator: 22980

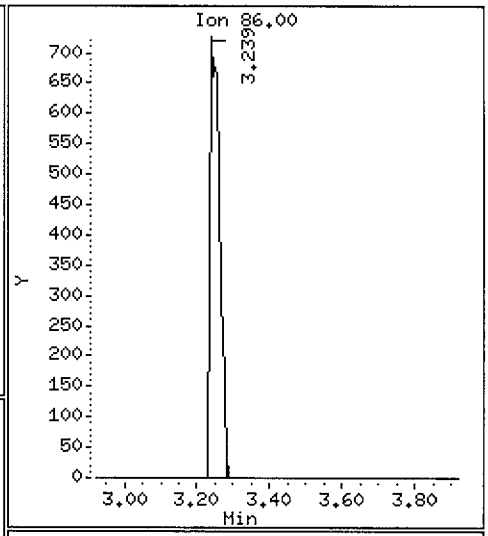
Column phase: J+W 624

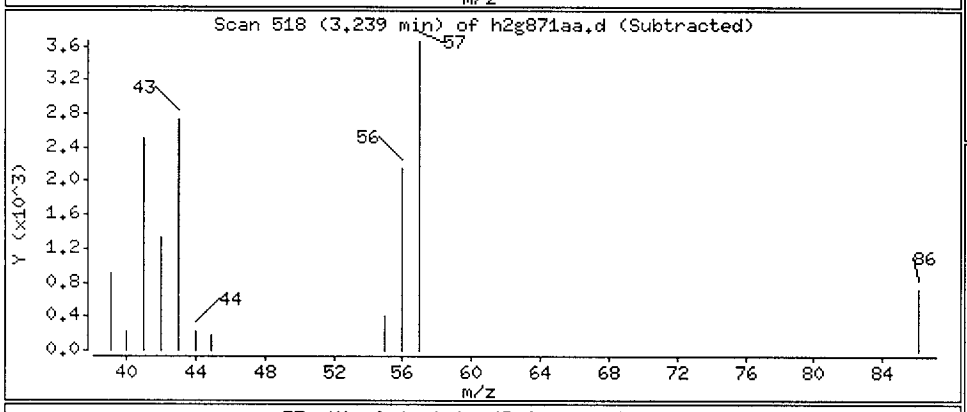
Column diameter: 0.18

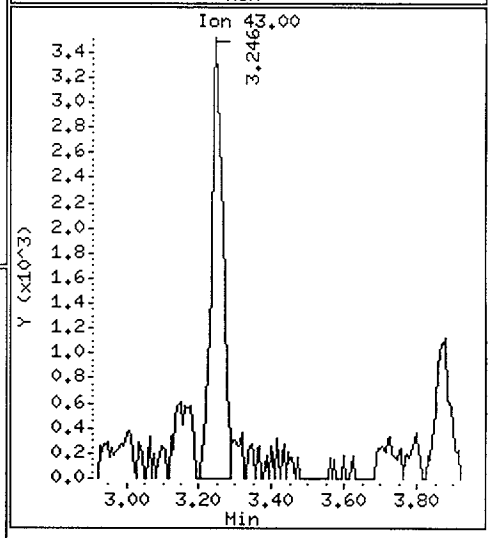
33 *Vinyl Acetate

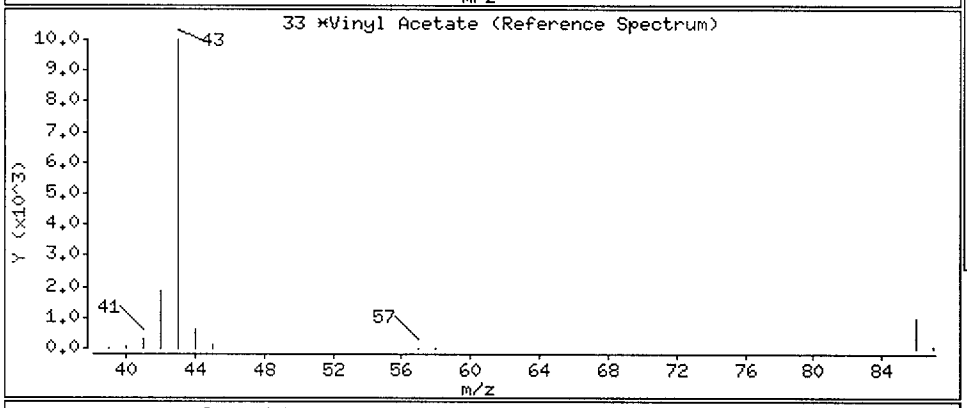
Concentration: 0.025026 ug

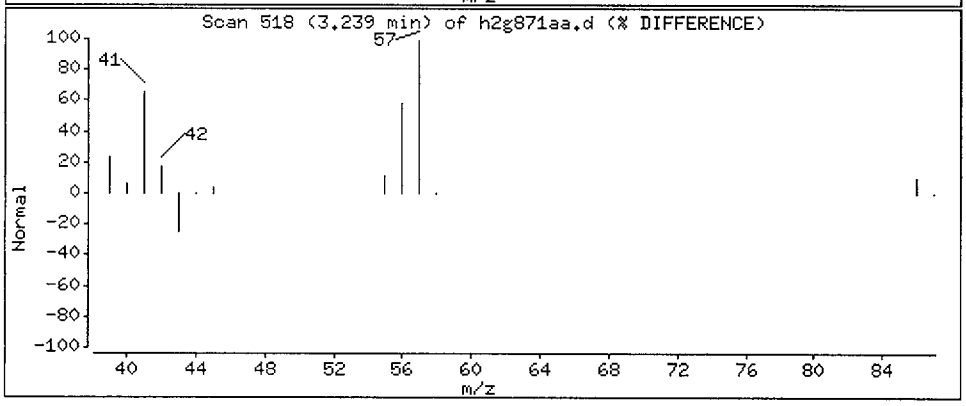












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

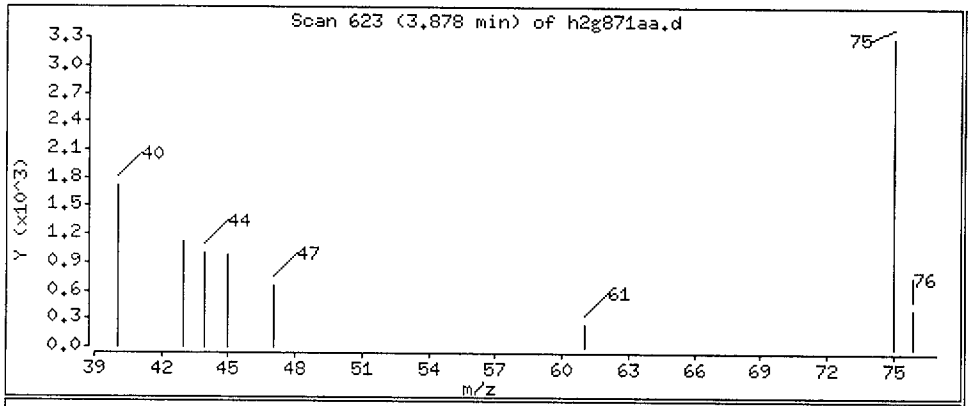
Operator: 22980

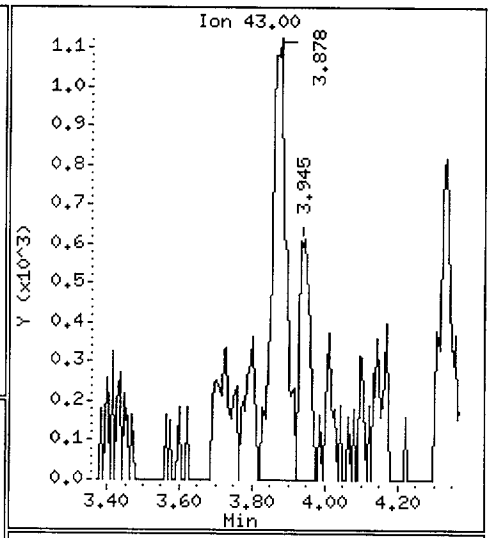
Column phase: J+W 624

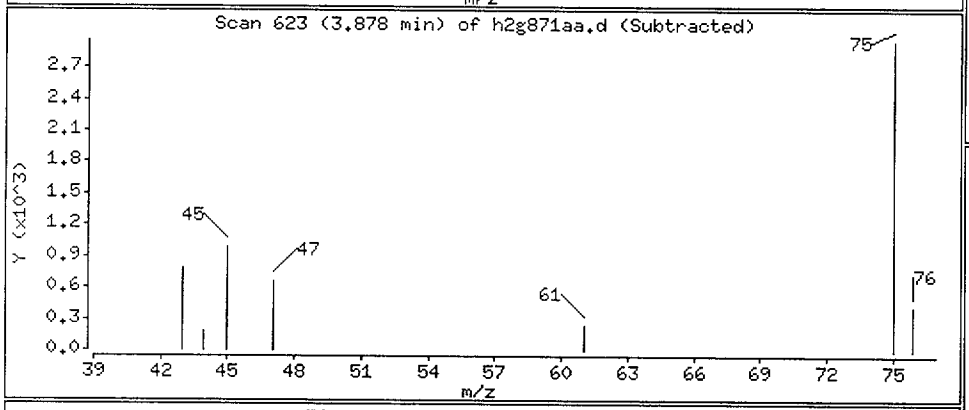
Column diameter: 0.18

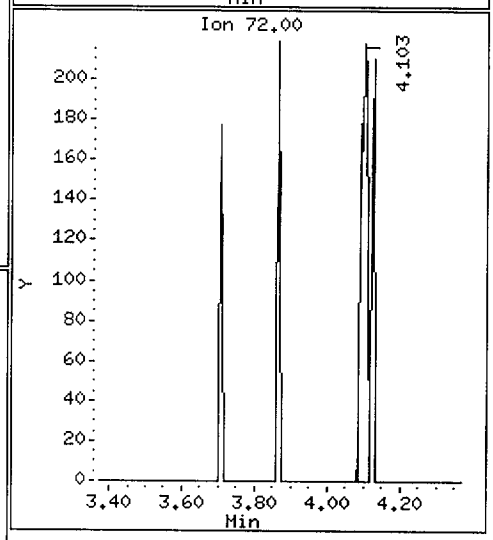
36 2-Butanone

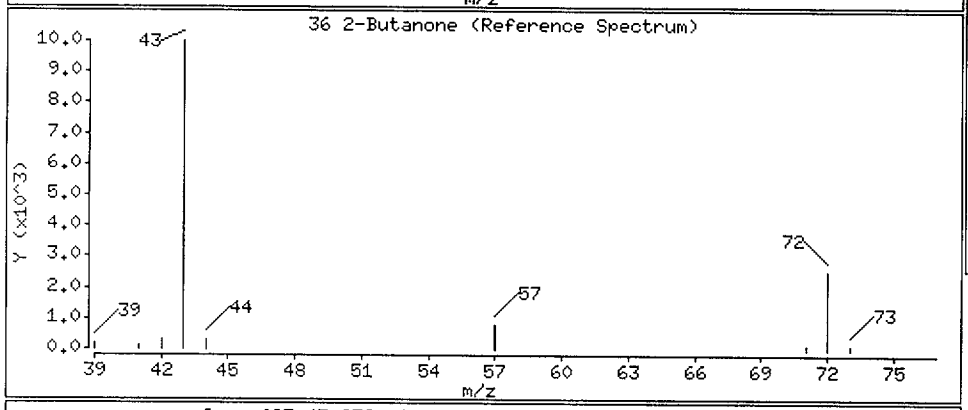
Concentration: 0.028250 ug

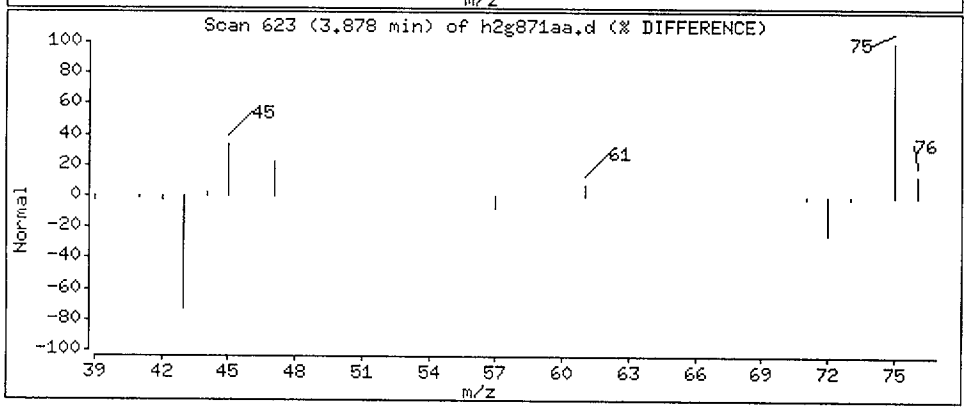












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

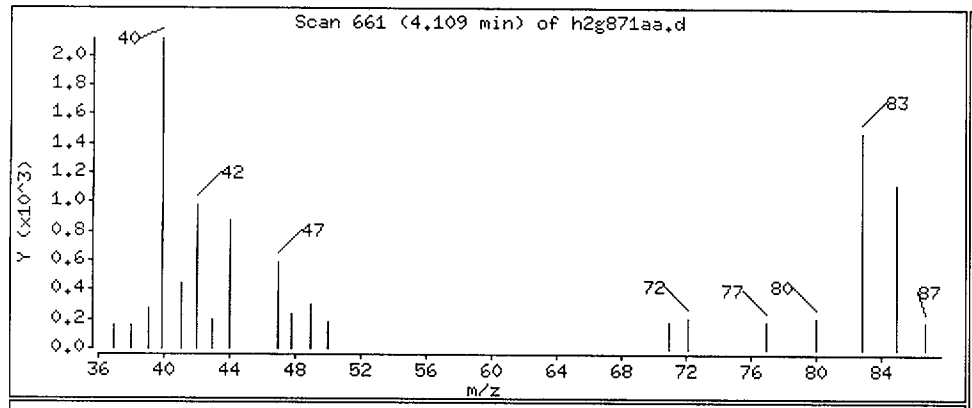
Operator: 22980

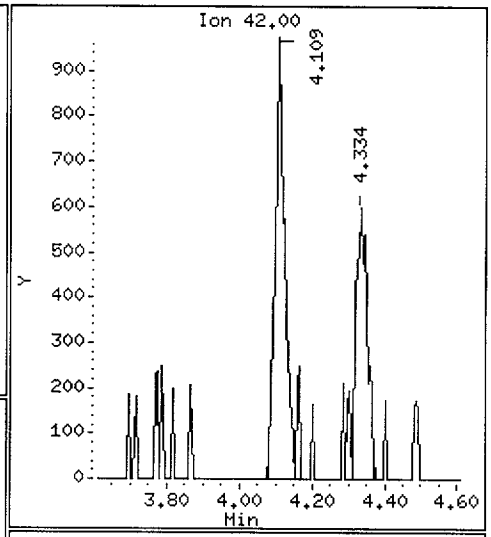
Column phase: J+W 624

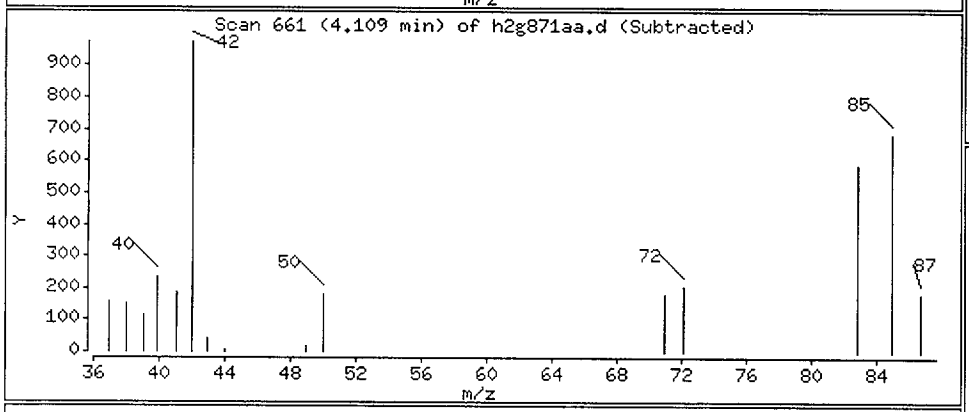
Column diameter: 0.18

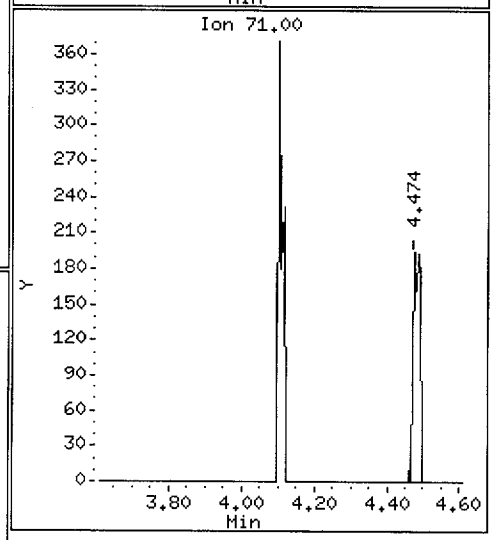
38 *THF

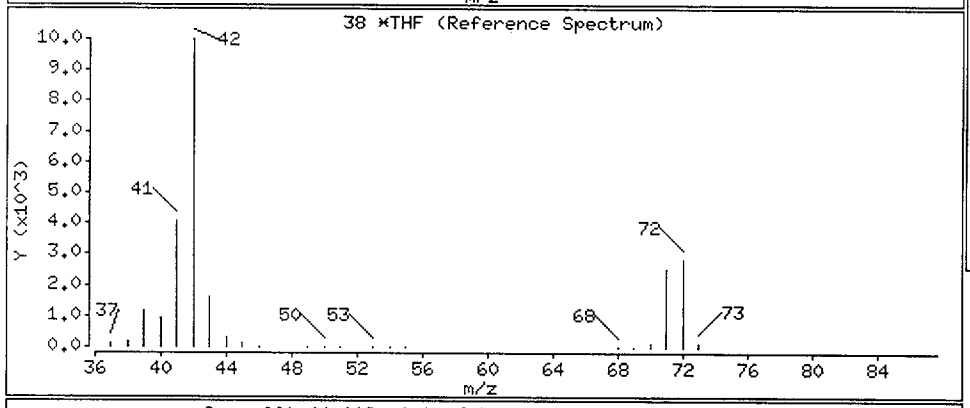
Concentration: 0.029157 ug

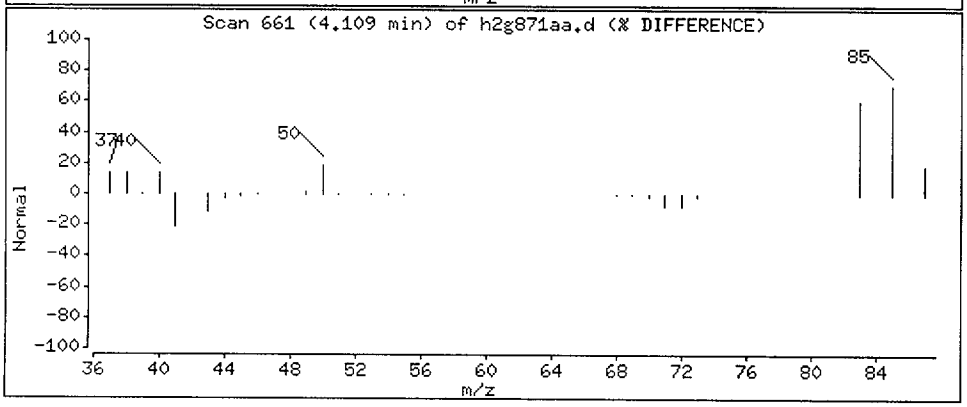












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

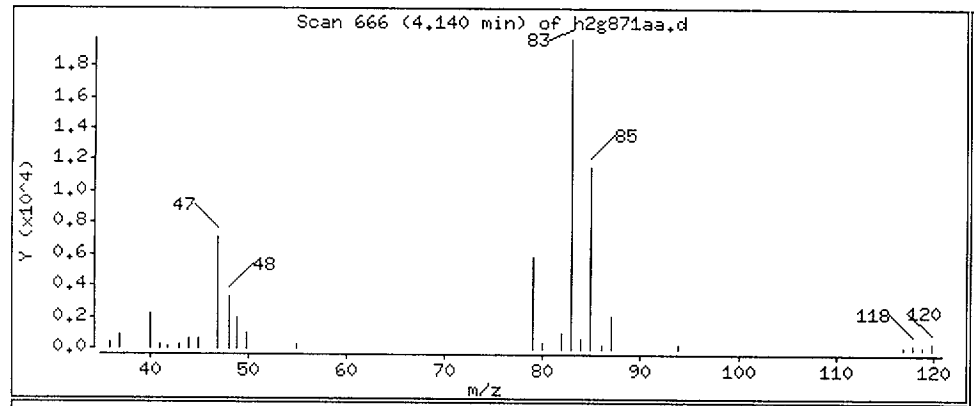
Operator: 22980

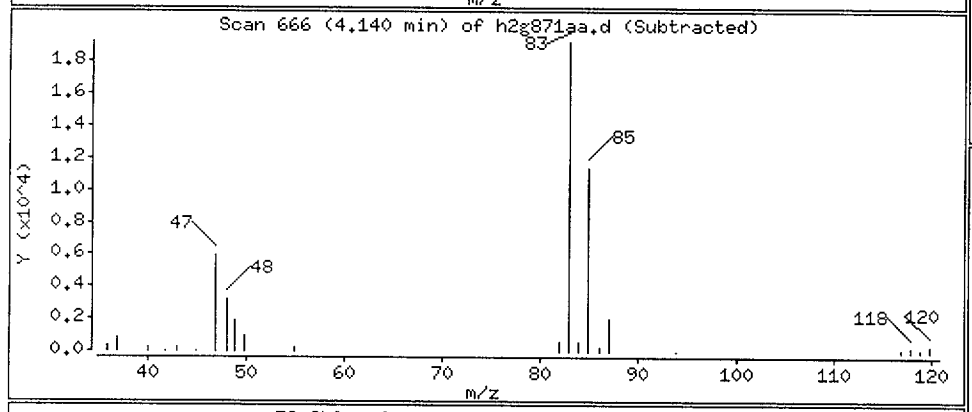
Column phase: J+W 624

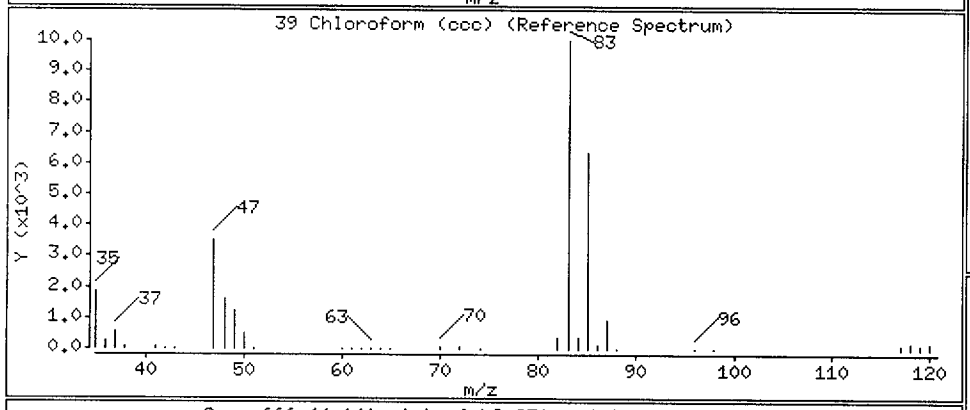
Column diameter: 0.18

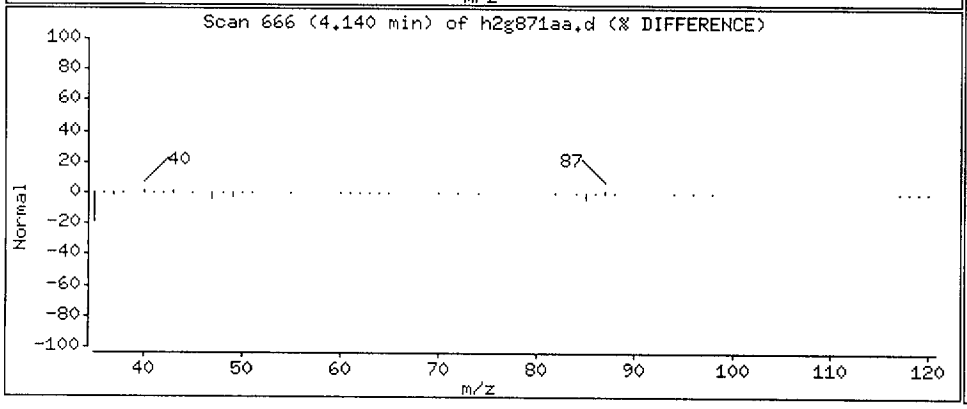
39 Chloroform (ccc)

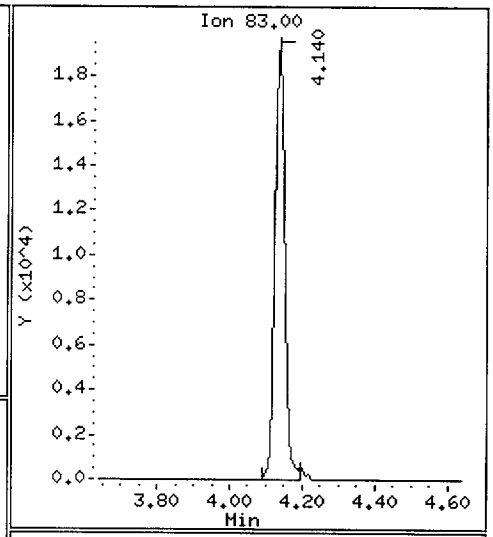
Concentration: 0.020039 ug

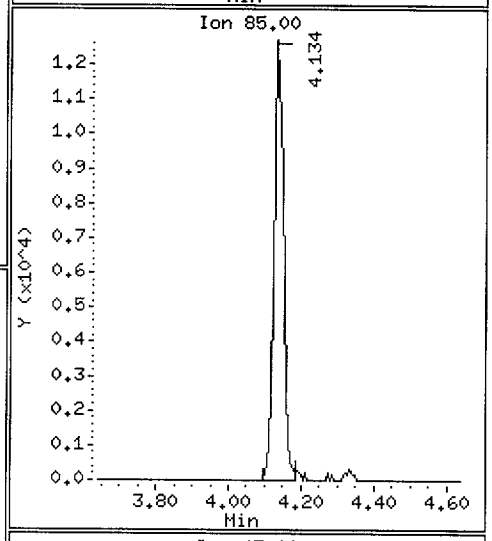


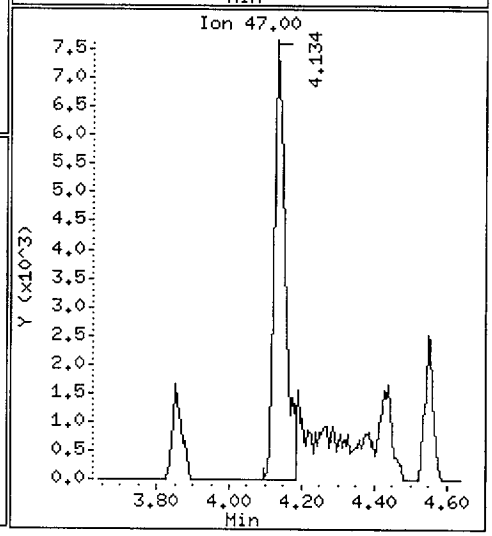












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

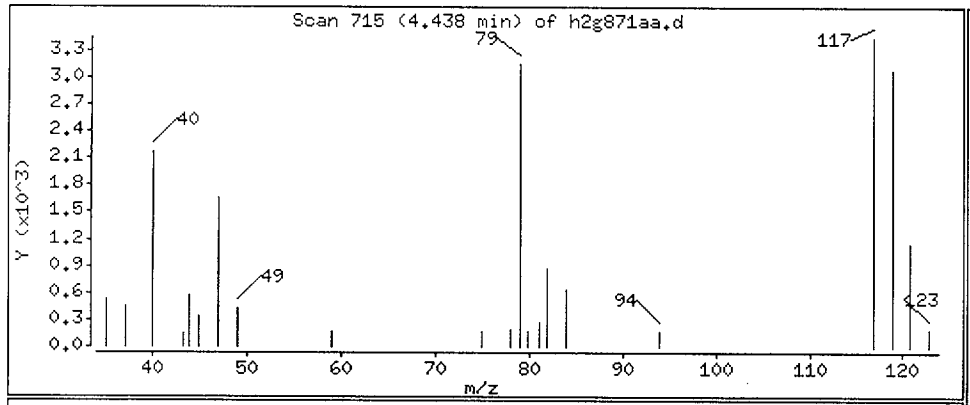
Operator: 22980

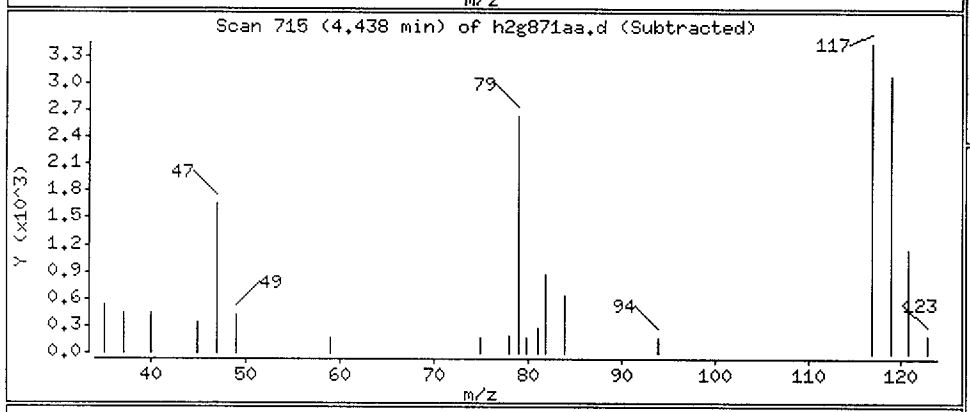
Column phase: J+W 624

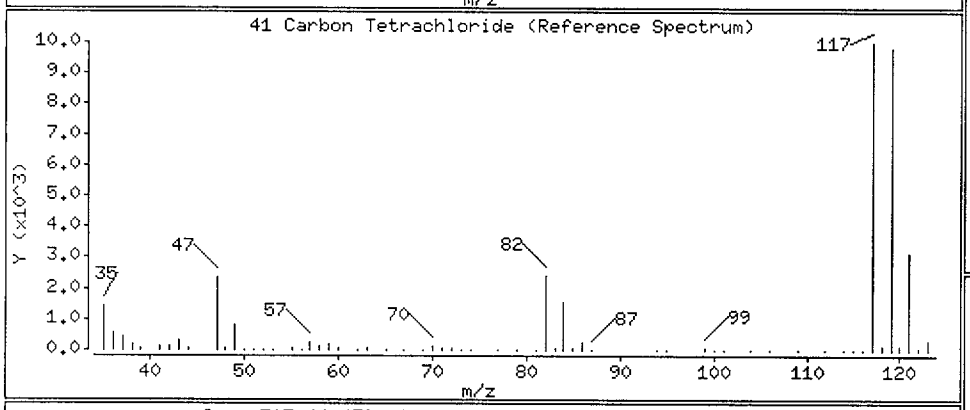
Column diameter: 0.18

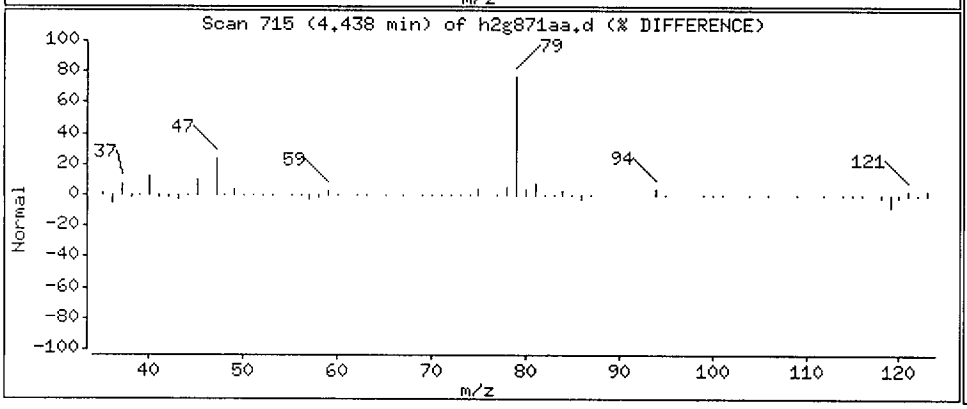
41 Carbon Tetrachloride

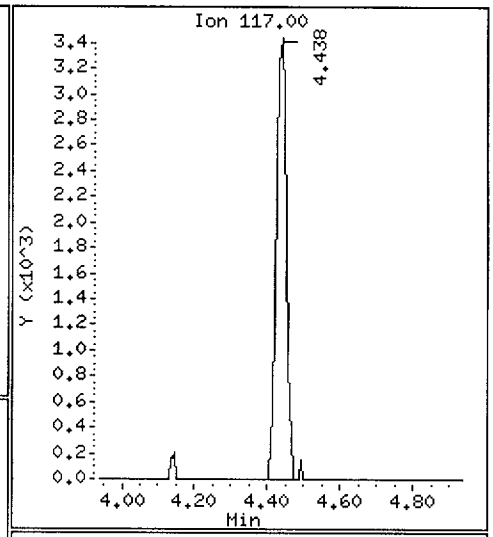
Concentration: 0.0037476 ug

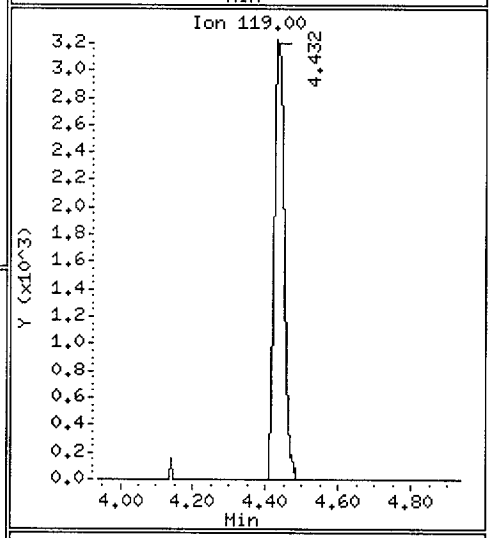


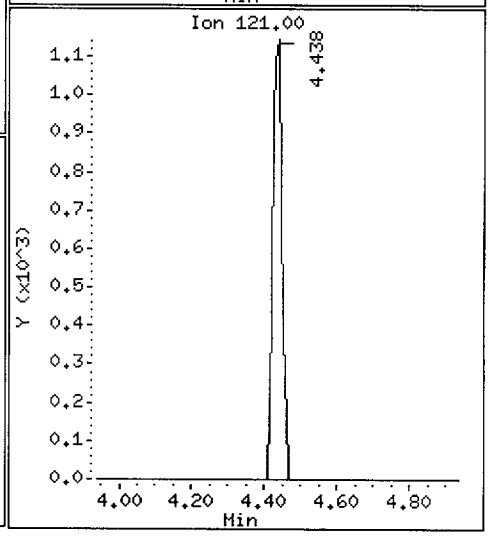












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

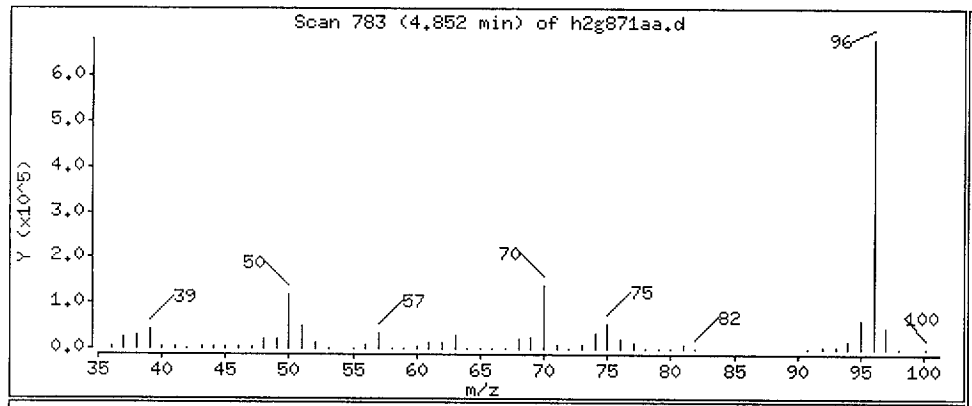
Operator: 22980

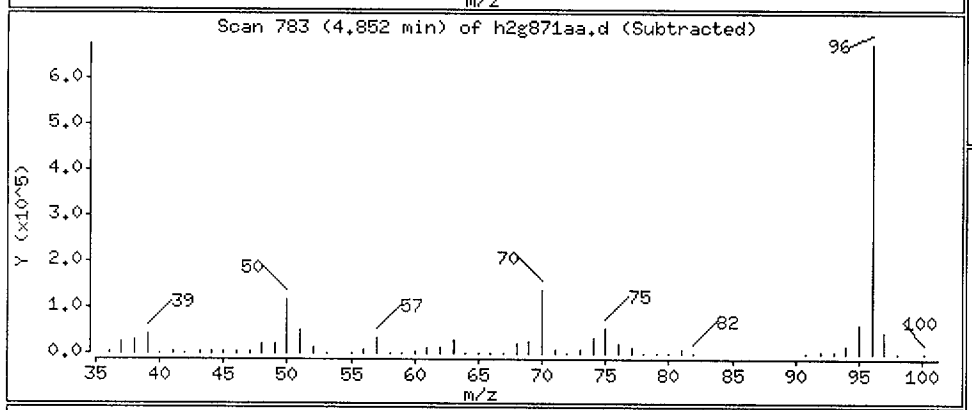
Column phase: J+W 624

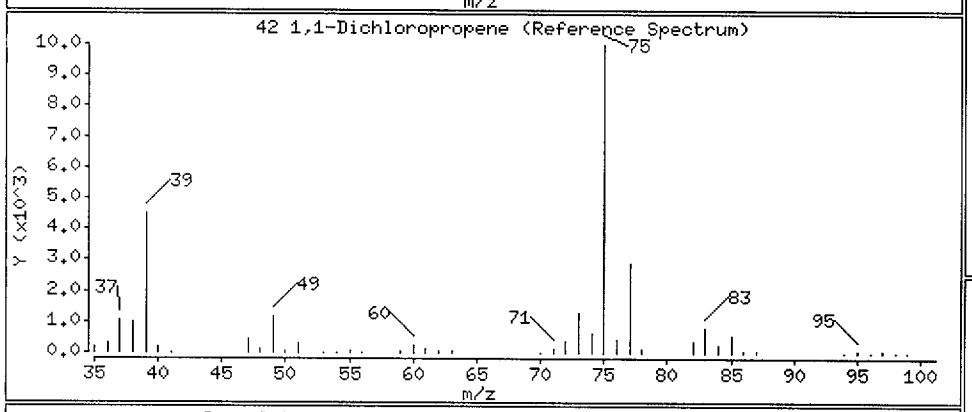
Column diameter: 0.18

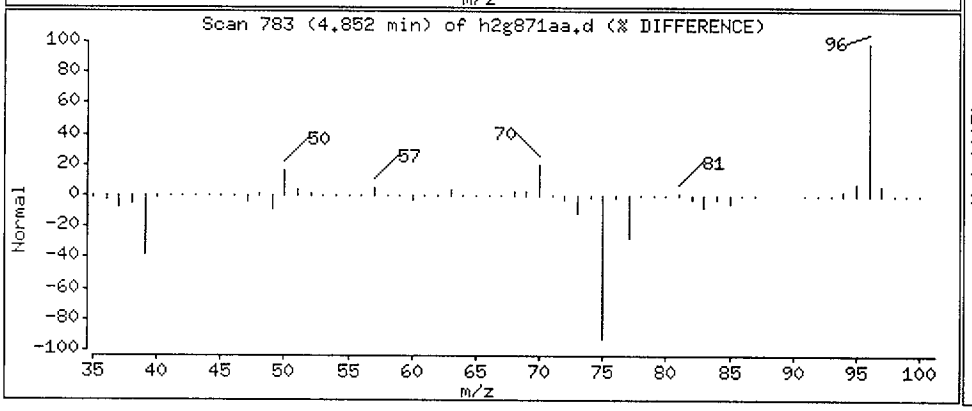
42 1,1-Dichloropropene

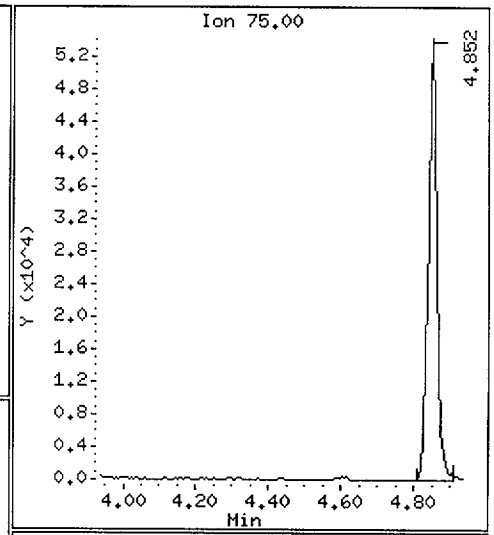
Concentration: 0.048595 ug

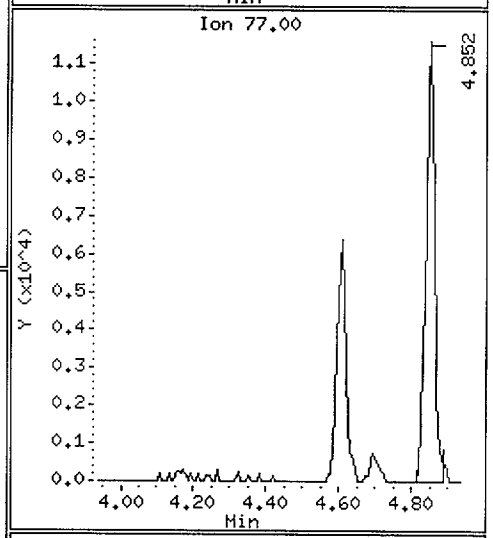


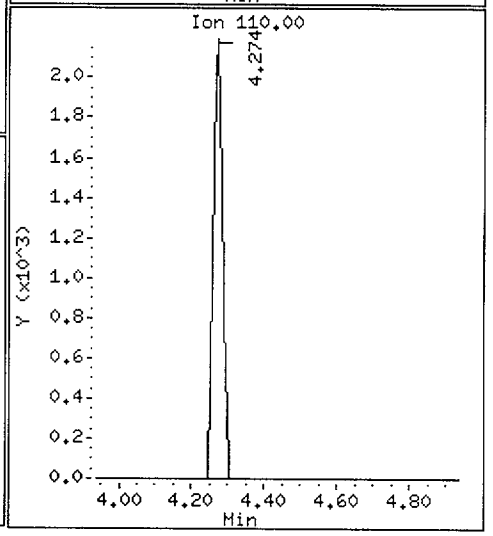












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

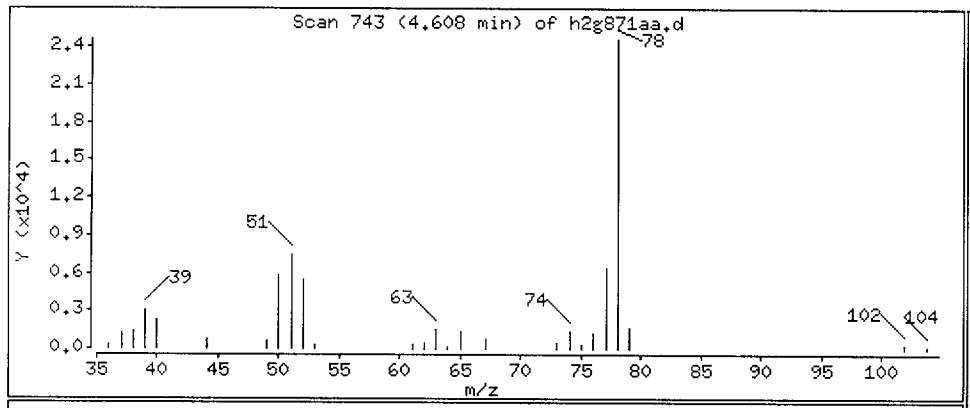
Operator: 22980

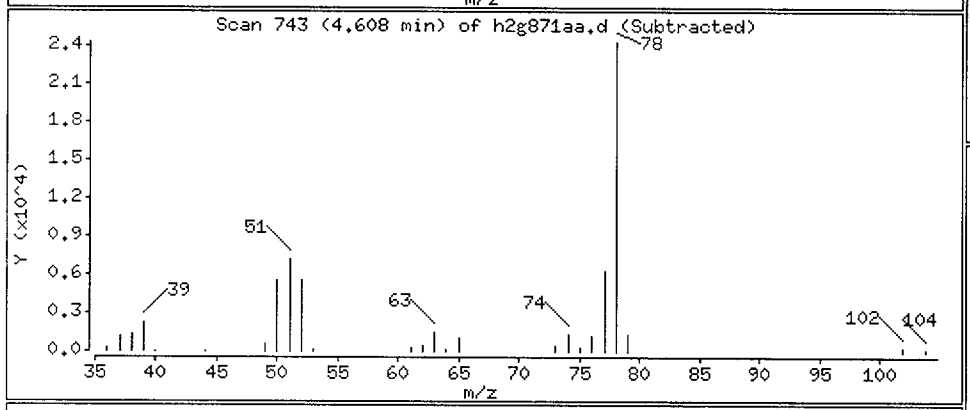
Column phase: J+W 624

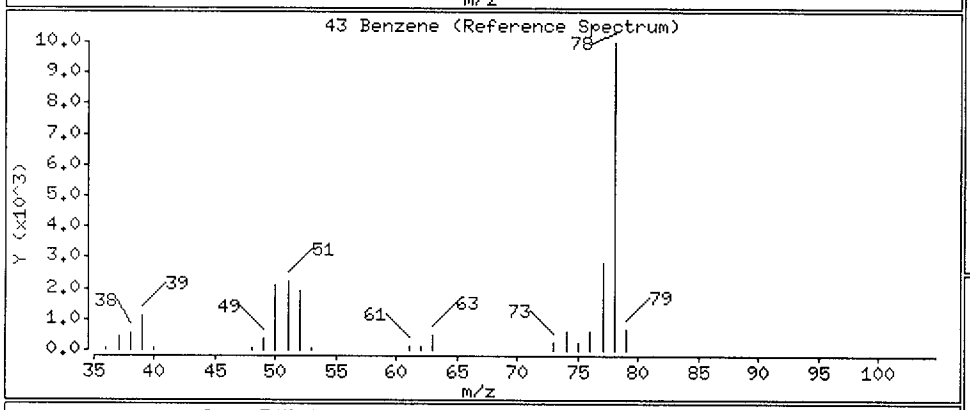
Column diameter: 0.18

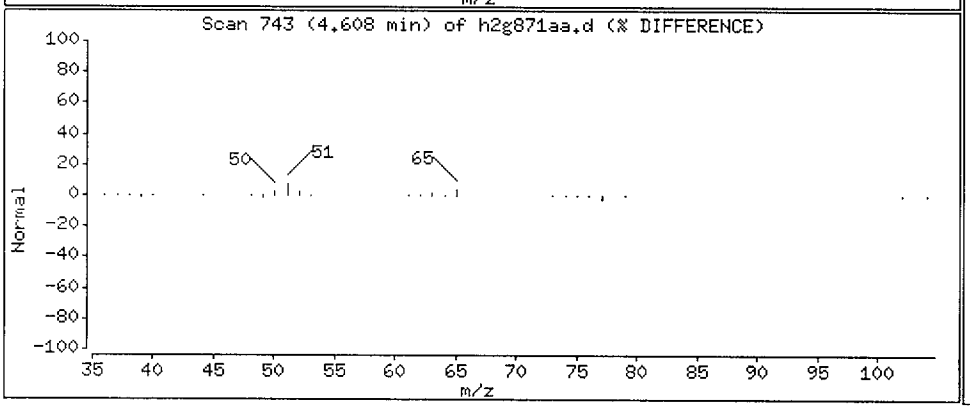
43 Benzene

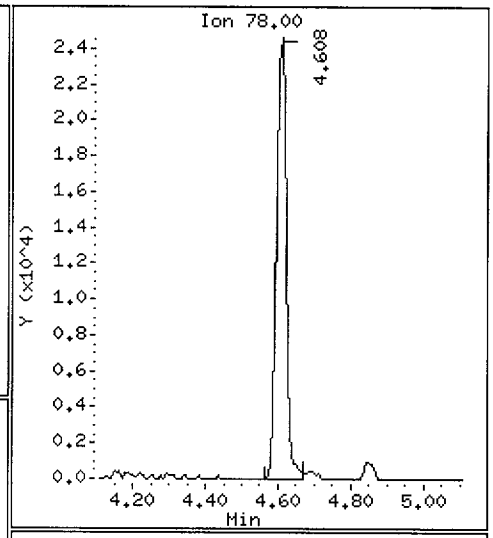
Concentration: 0.0091956 ug

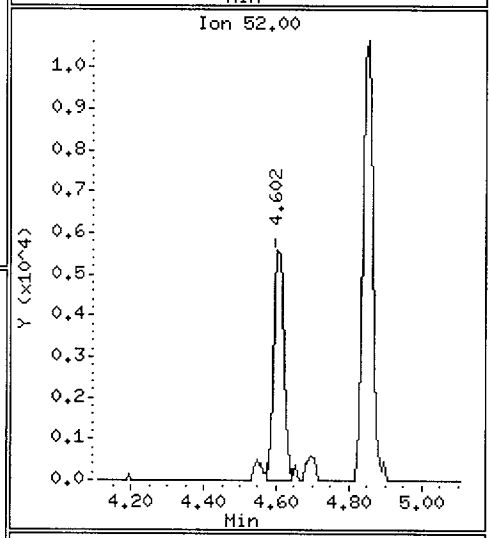


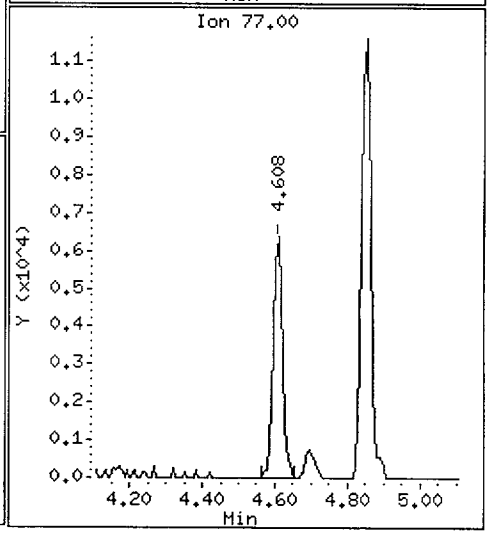












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

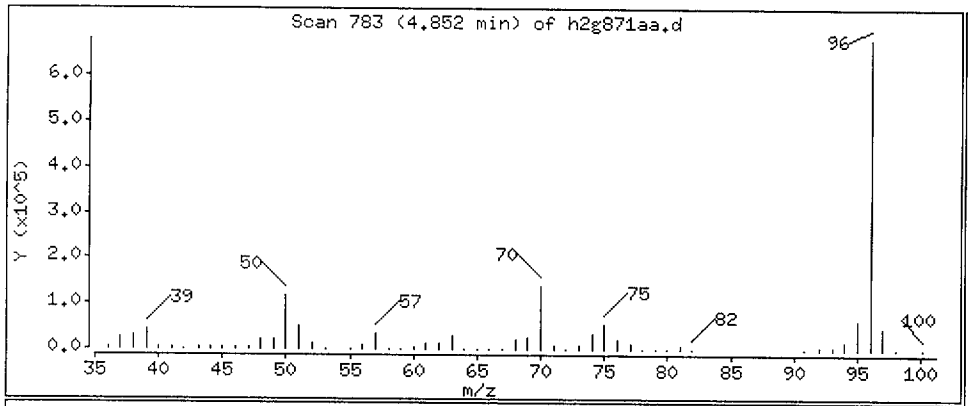
Operator: 22980

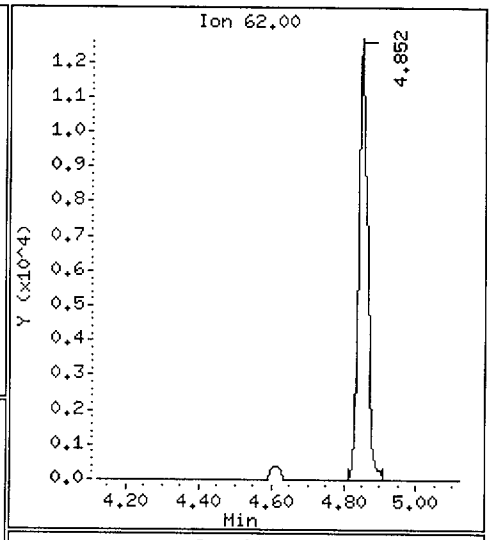
Column phase: J+W 624

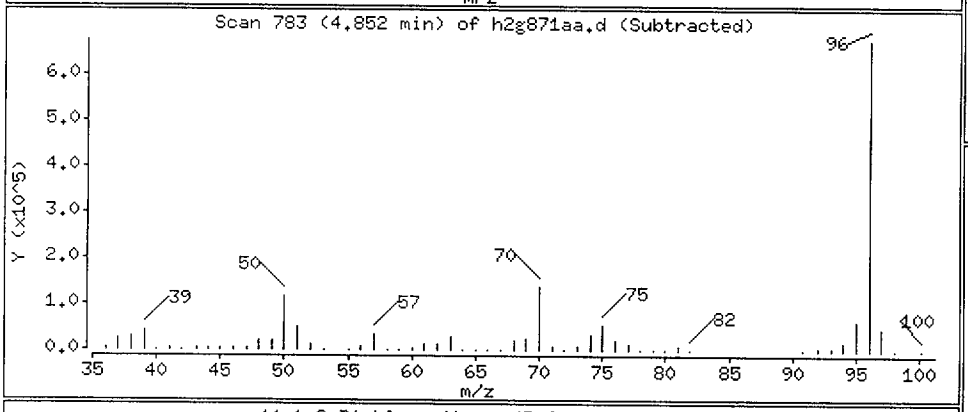
Column diameter: 0.18

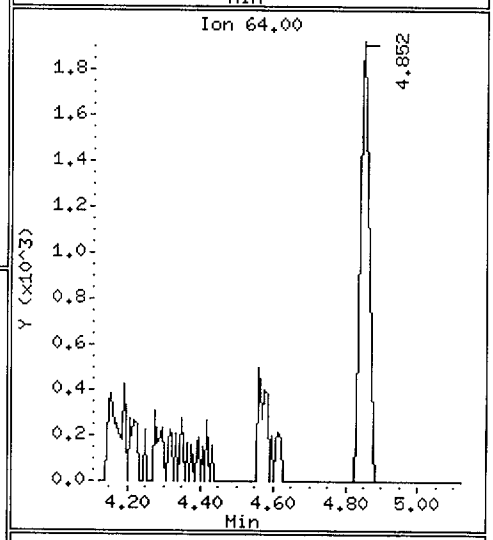
44 1,2-Dichloroethane

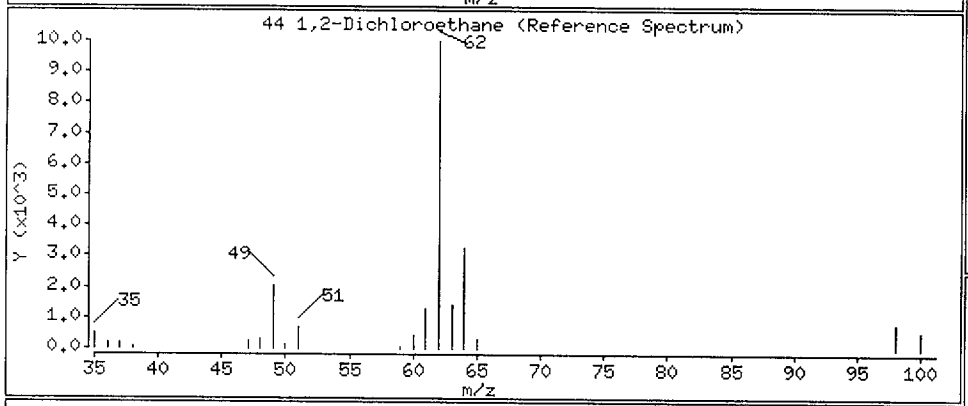
Concentration: 0.026193 ug

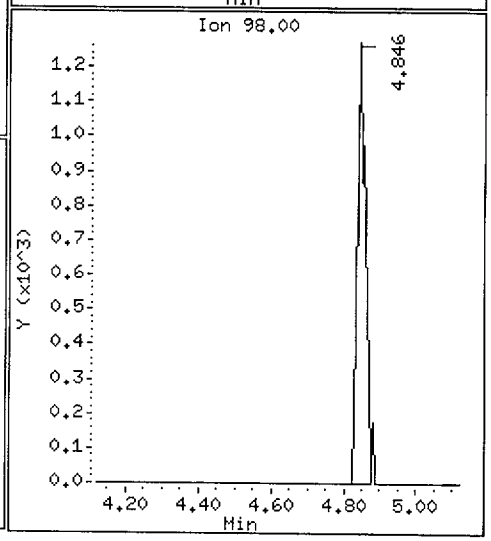


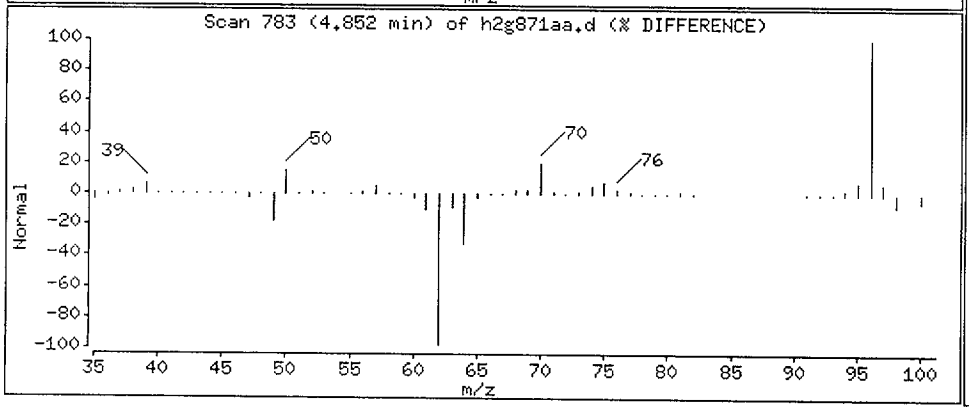












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

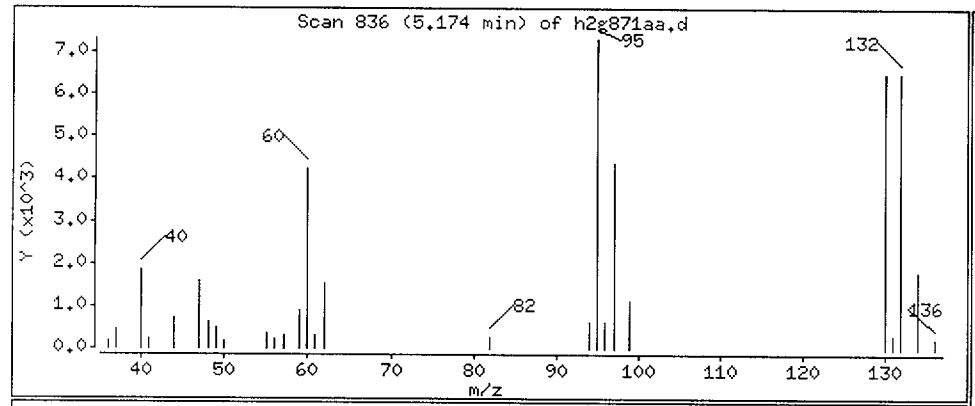
Operator: 22980

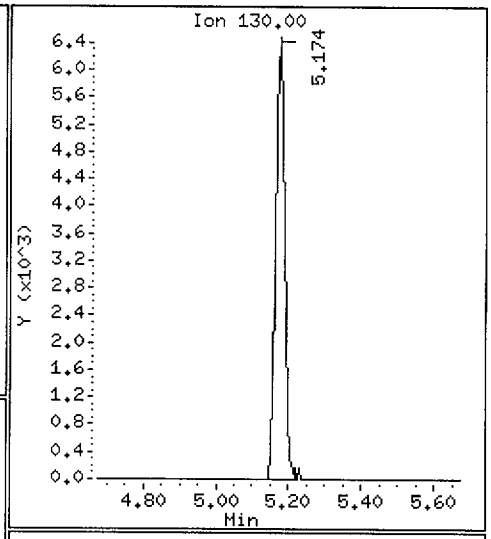
Column phase: J+W 624

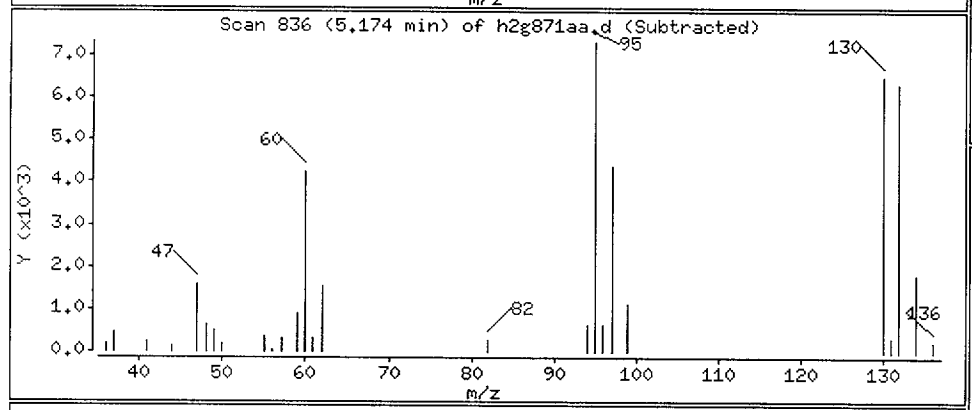
Column diameter: 0.18

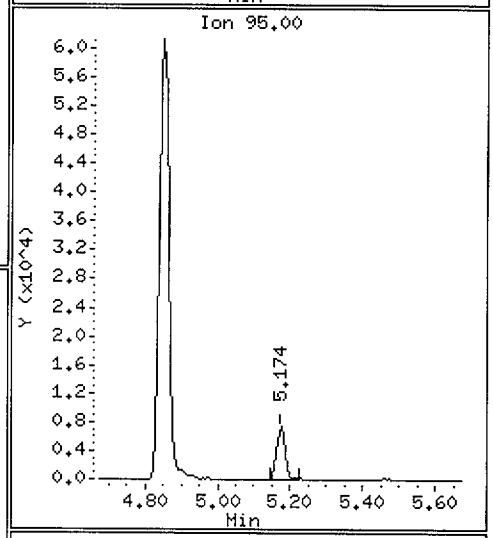
45 Trichloroethene

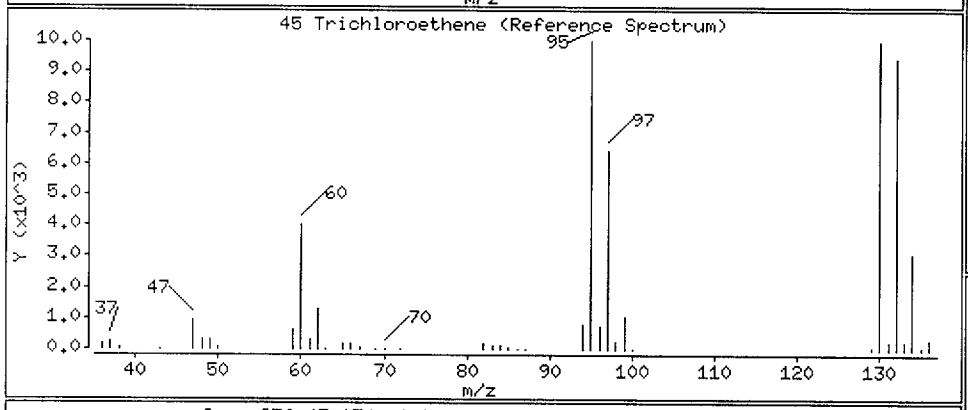
Concentration: 0.0080926 ug

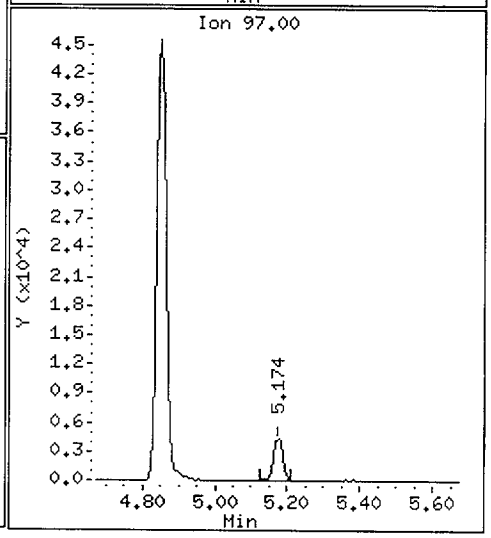


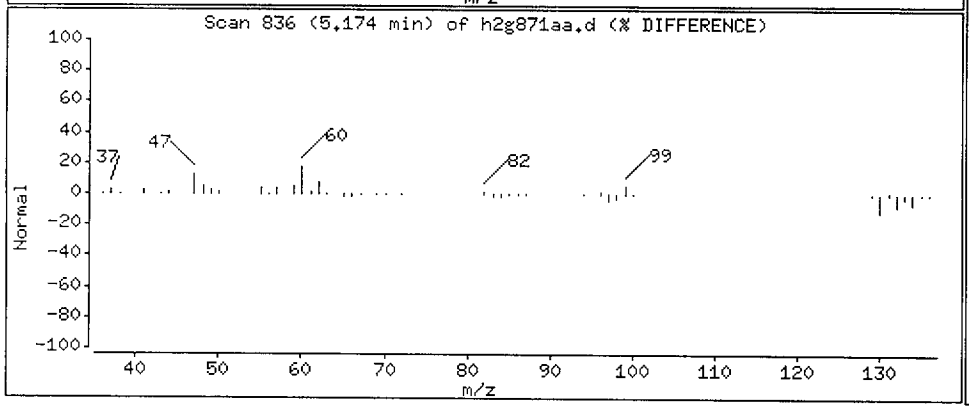












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

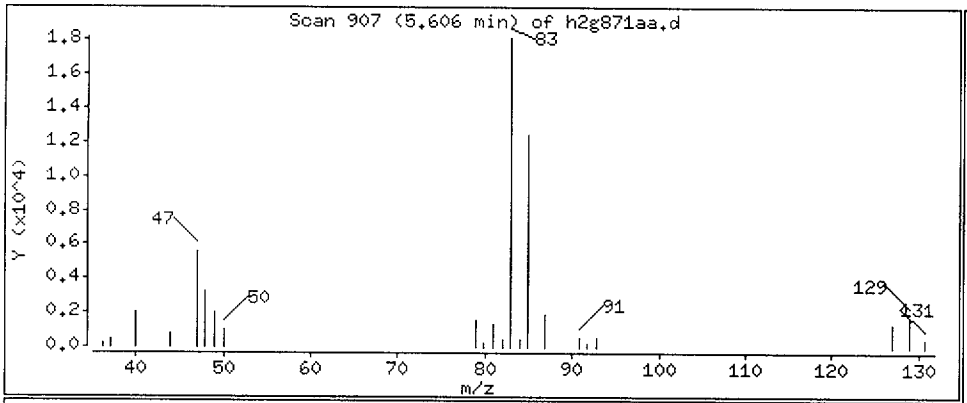
Operator: 22980

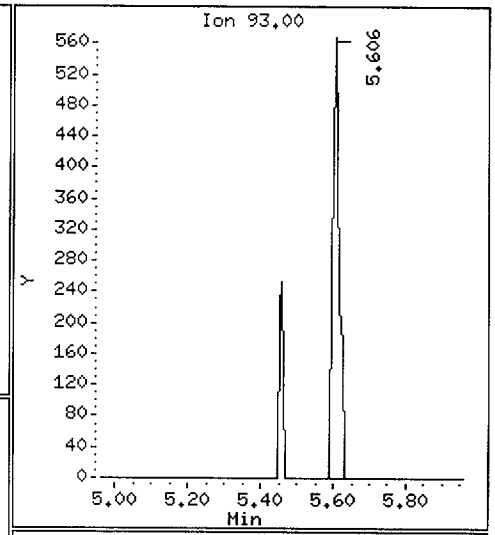
Column phase: J+W 624

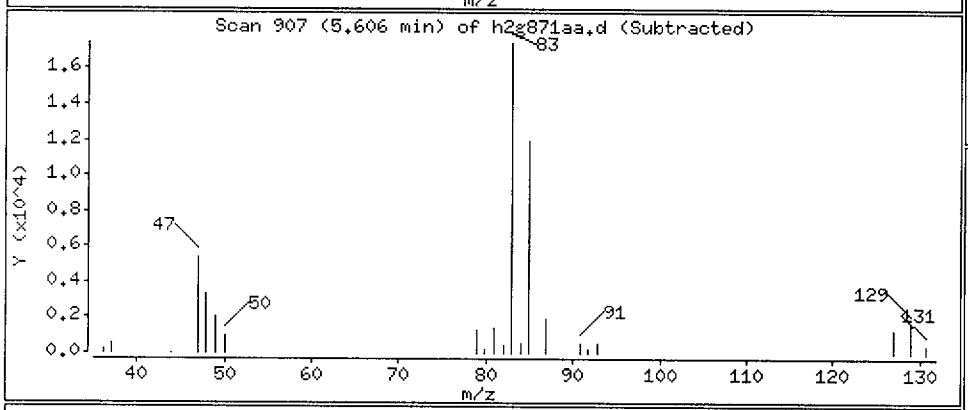
Column diameter: 0.18

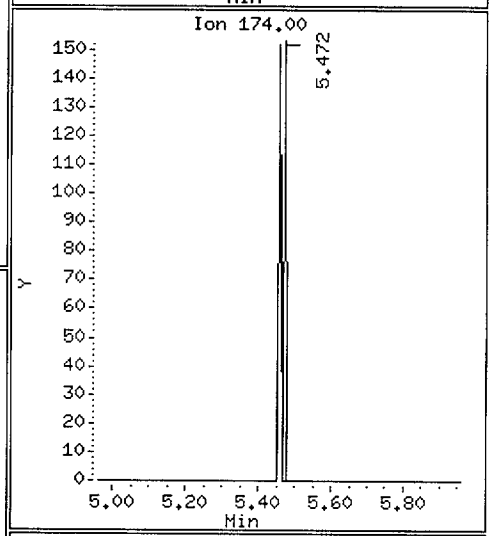
48 Dibromomethane

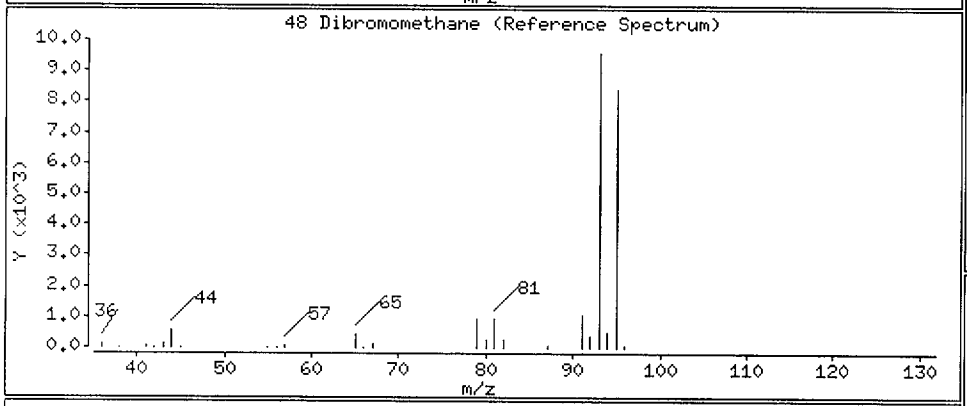
Concentration: 0.0027466 ug

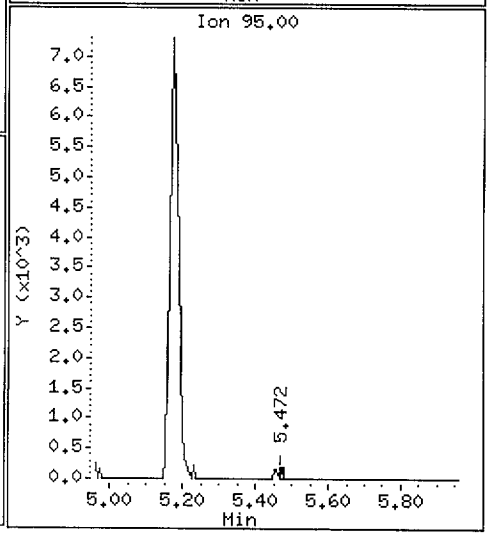


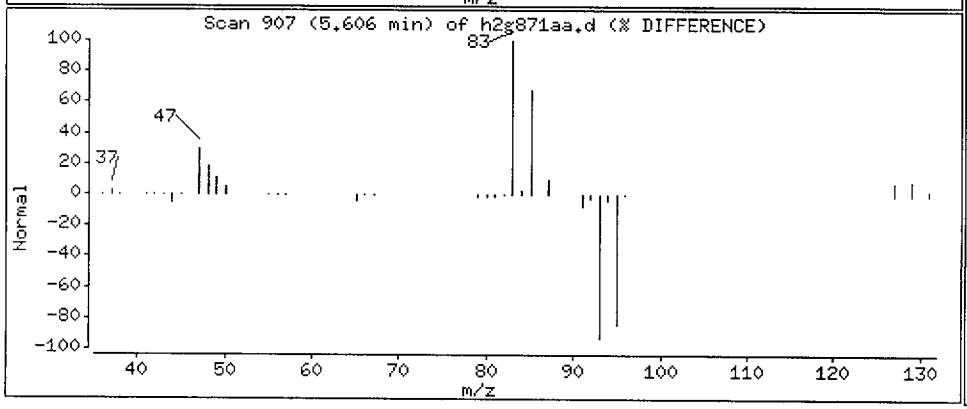












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

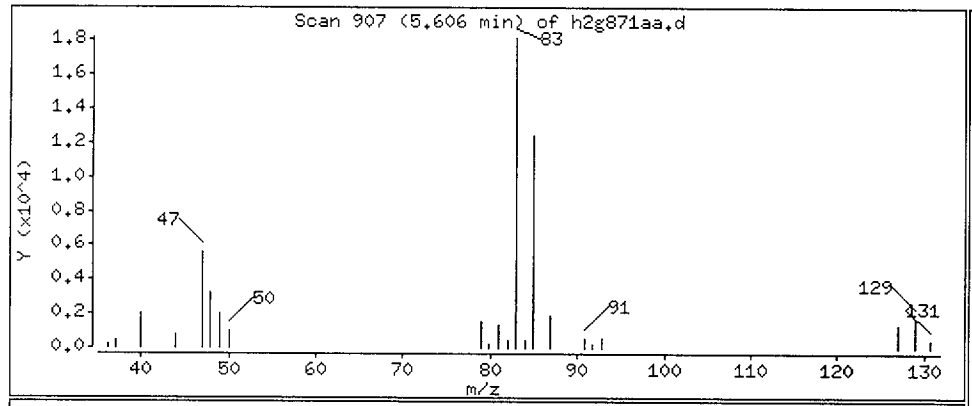
Operator: 22980

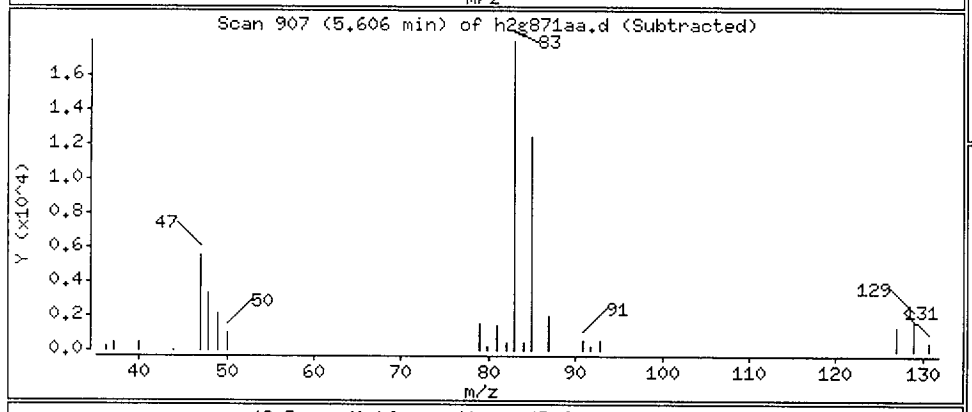
Column phase: J+W 624

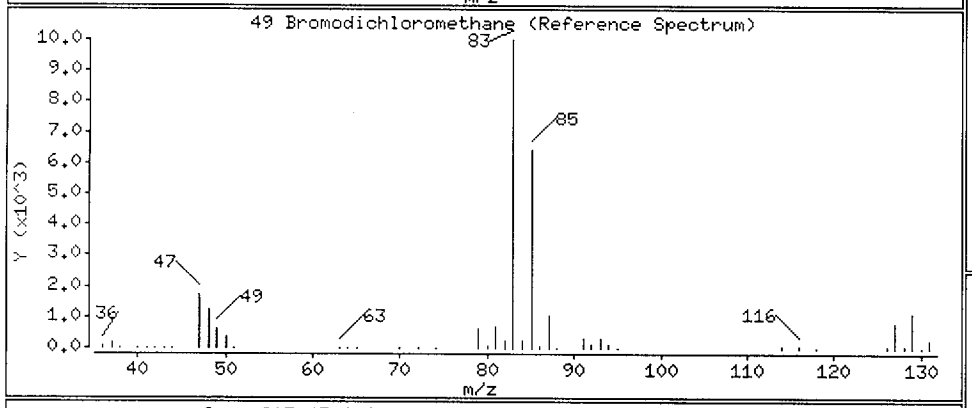
Column diameter: 0.18

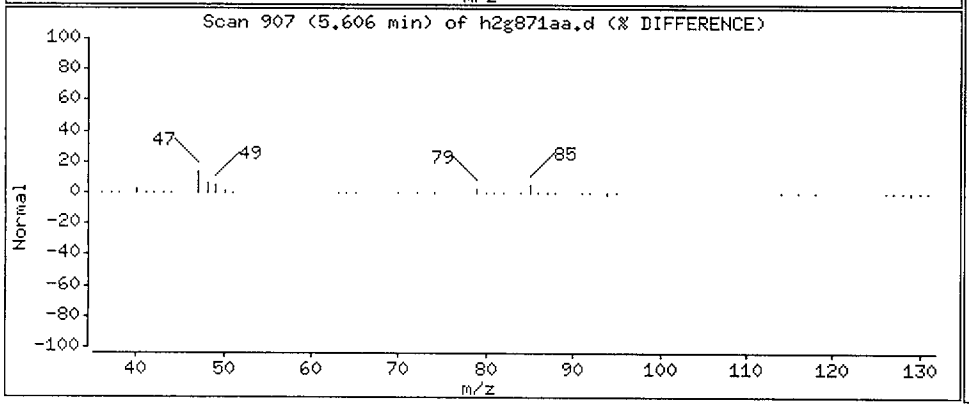
49 Bromodichloromethane

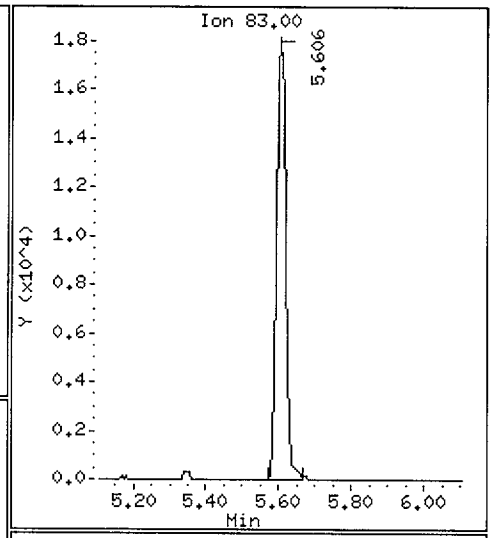
Concentration: 0.029784 ug

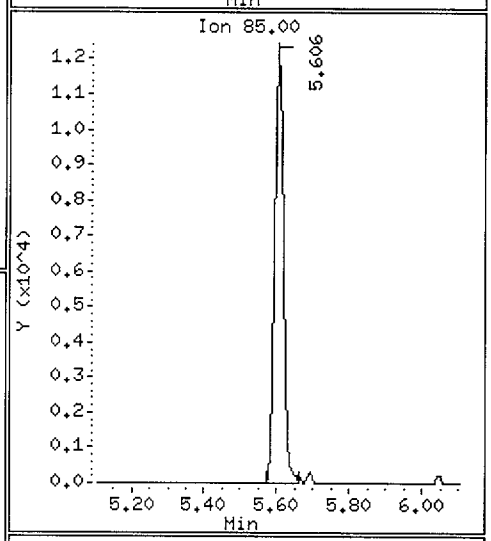


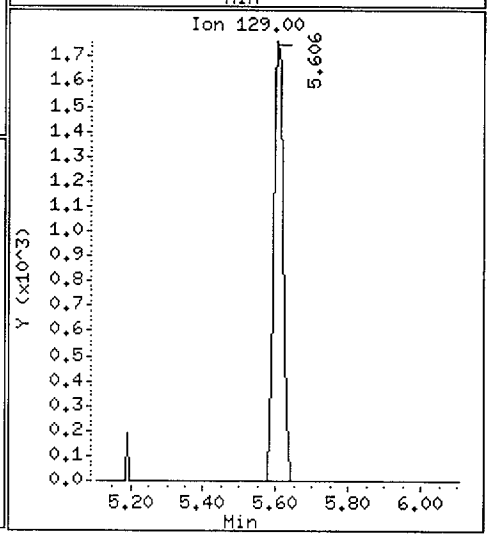












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

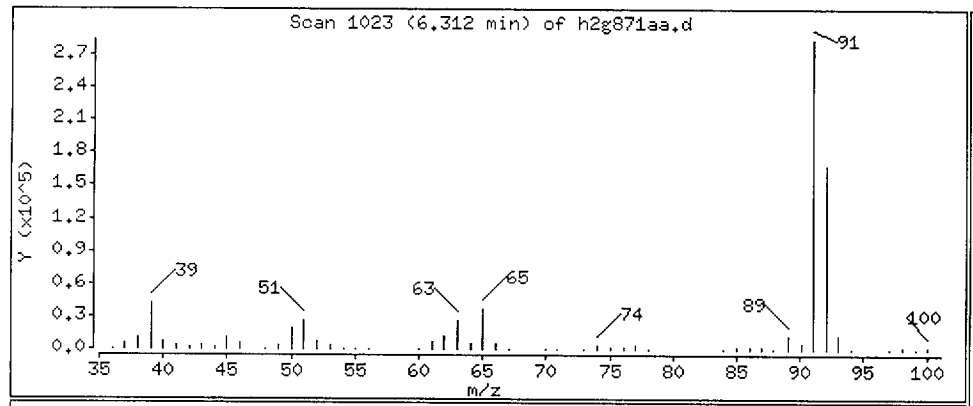
Operator: 22980

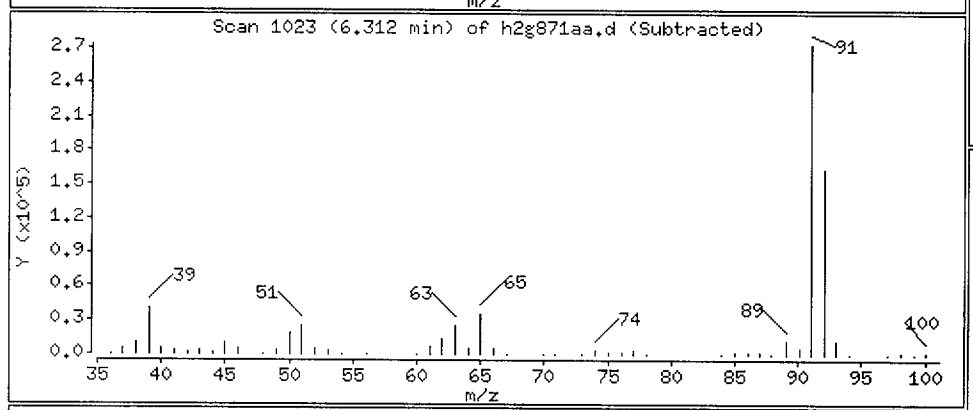
Column phase: J+W 624

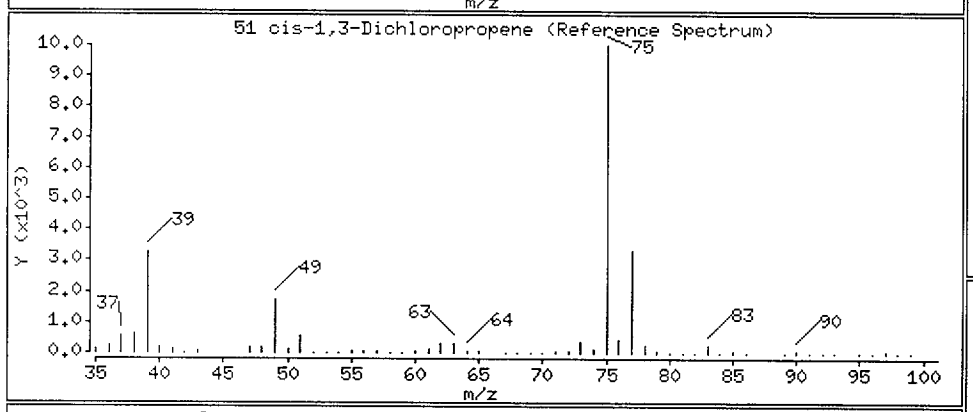
Column diameter: 0.18

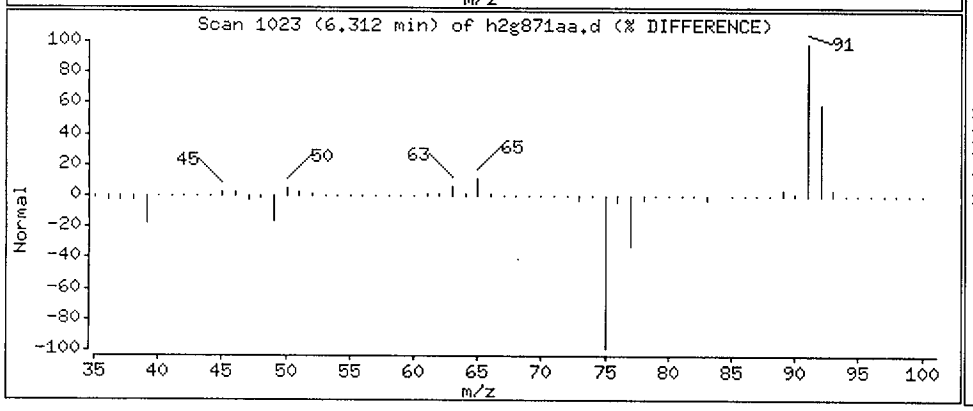
51 cis-1,3-Dichloropropene

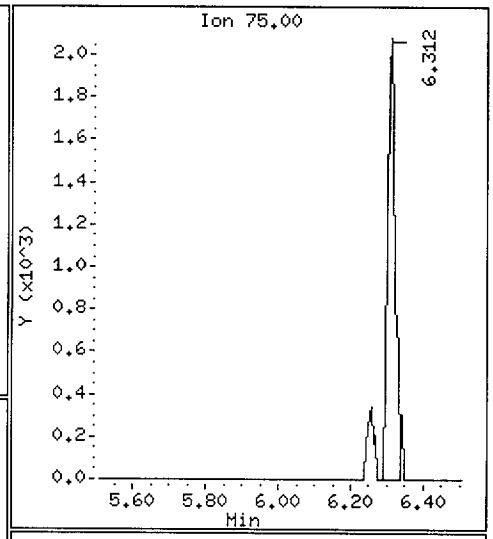
Concentration: 0.0026595 ug

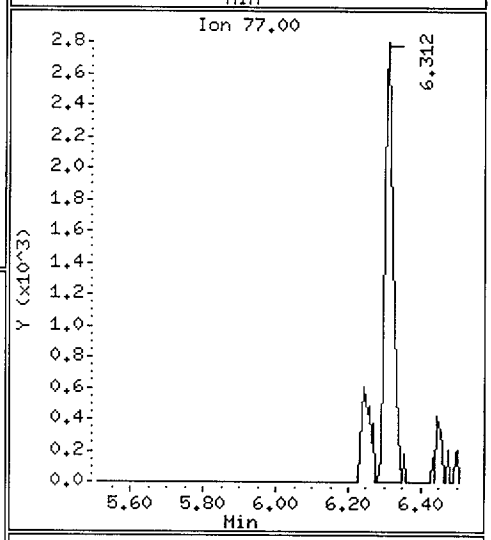


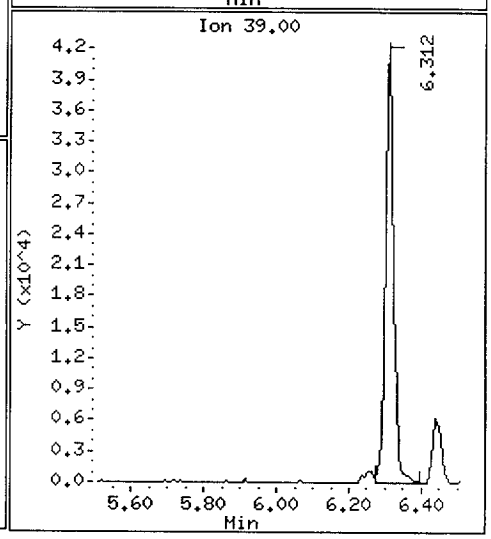












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

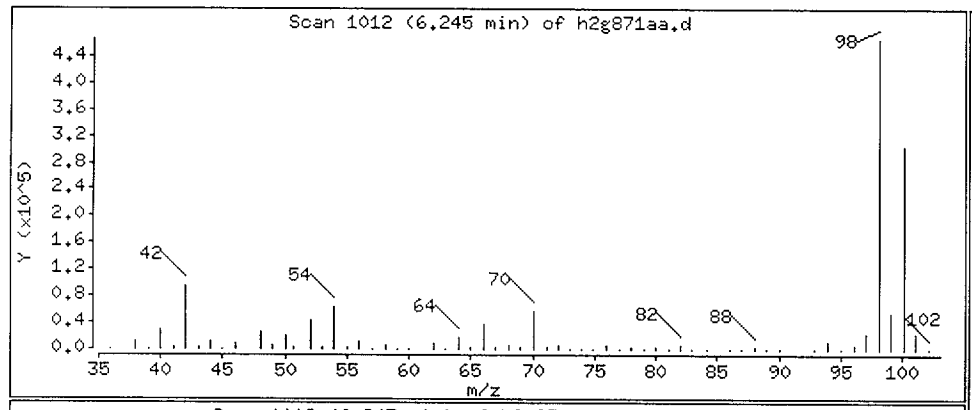
Operator: 22980

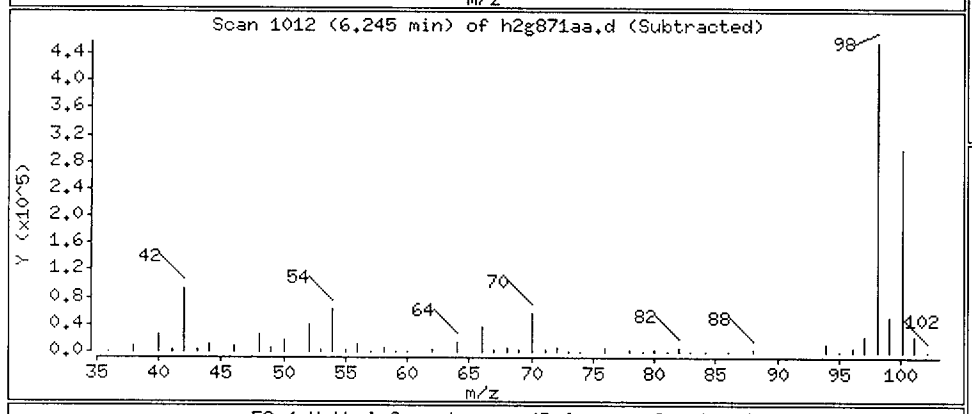
Column phase: J+W 624

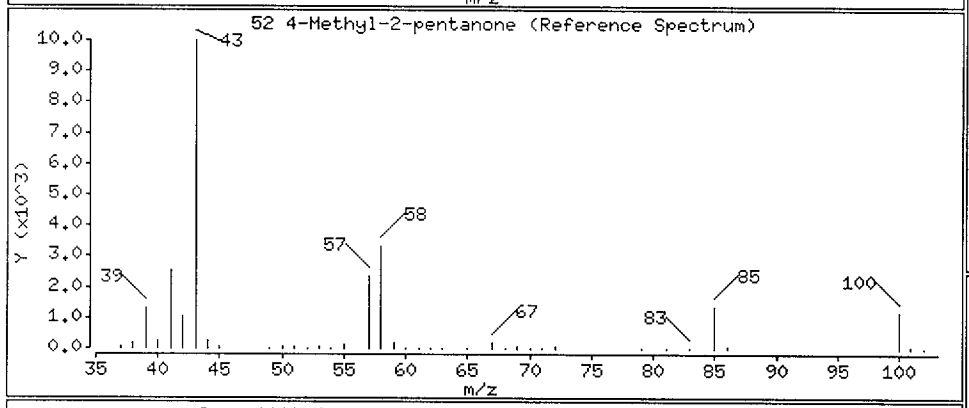
Column diameter: 0.18

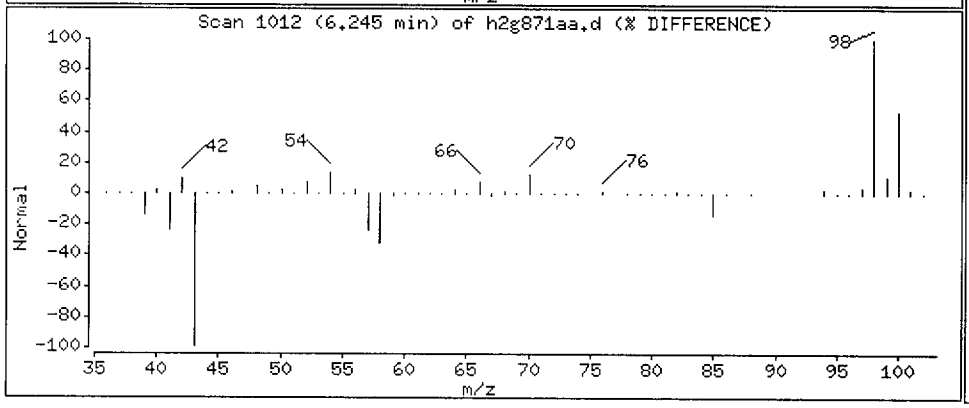
52 4-Methyl-2-pentanone

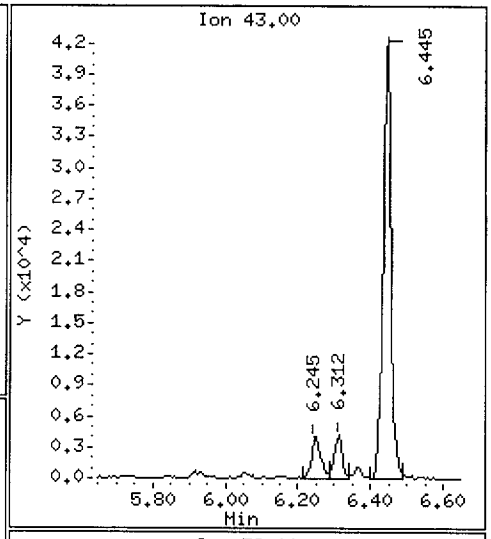
Concentration: 0.029120 ug

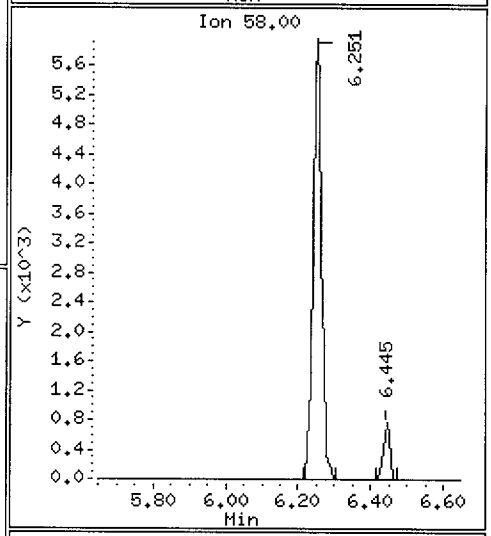


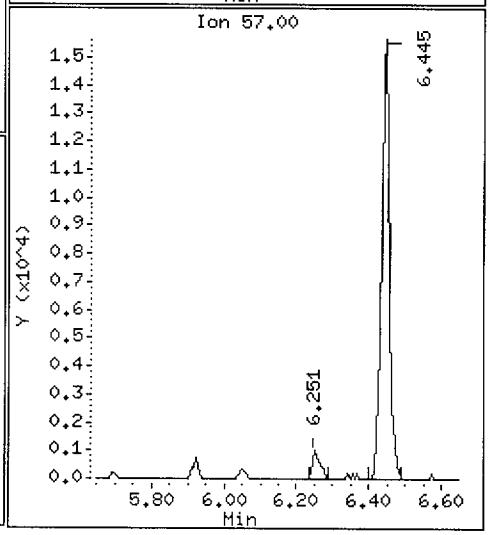












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

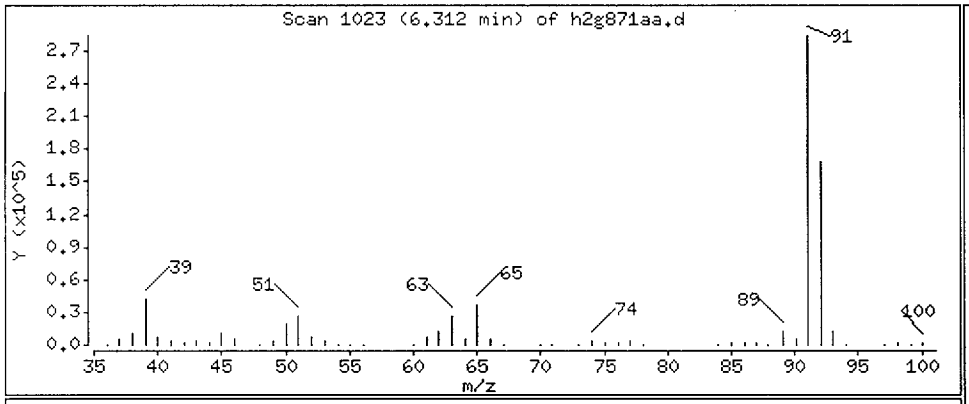
Operator: 22980

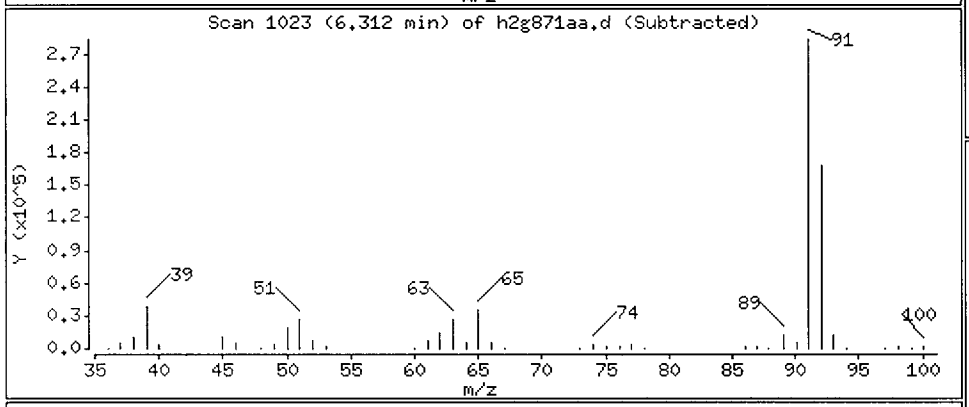
Column phase: J+W 624

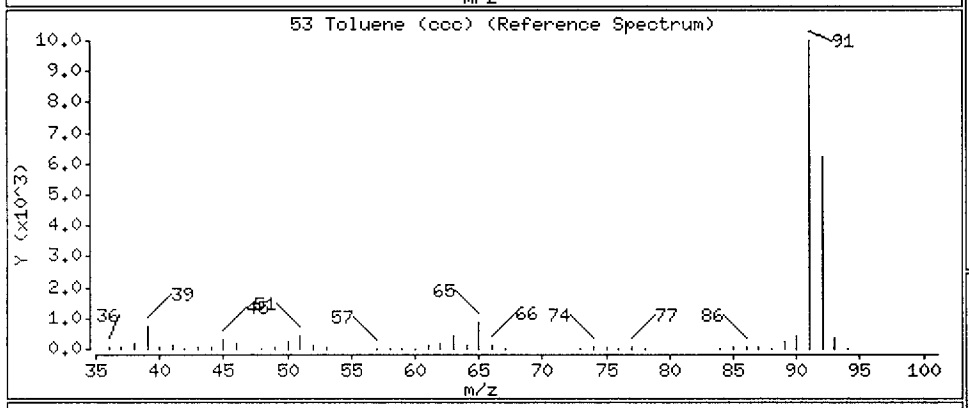
Column diameter: 0.18

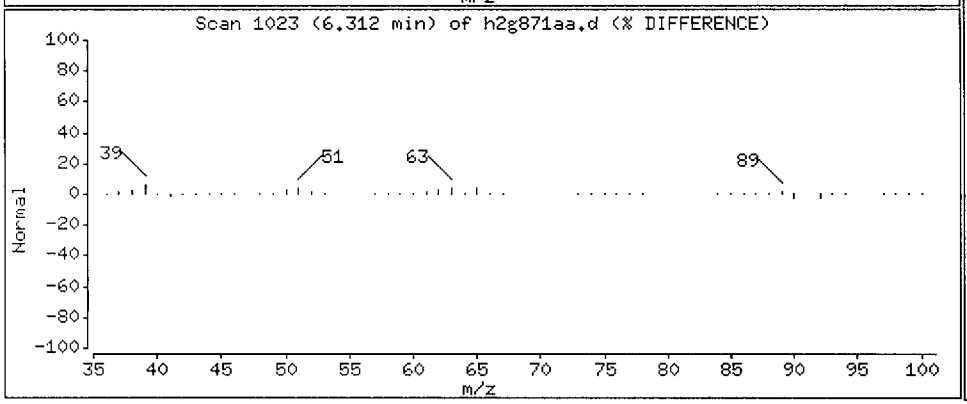
53 Toluene (ccc)

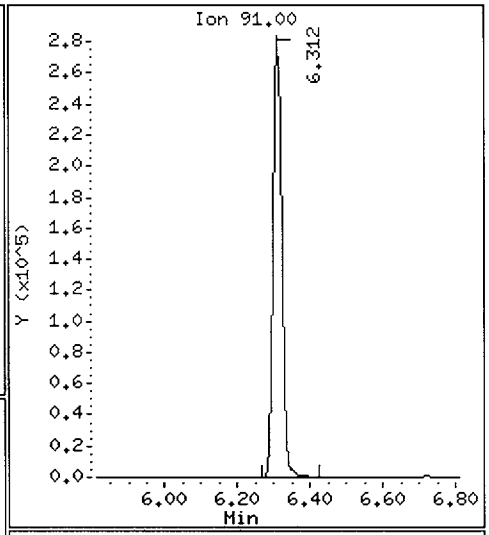
Concentration: 0.077701 ug

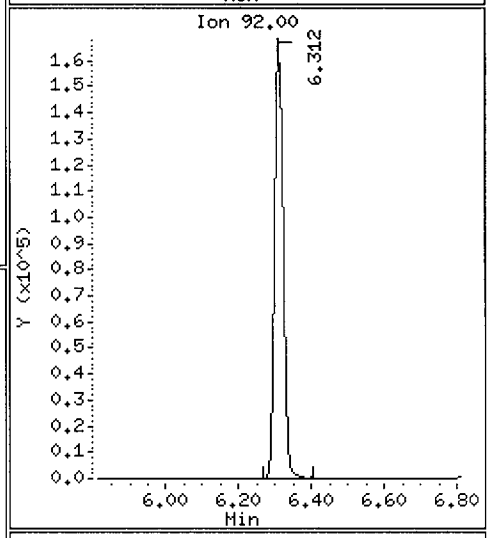


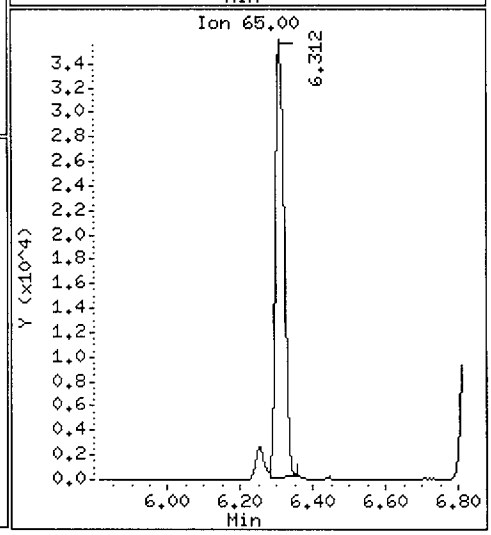












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

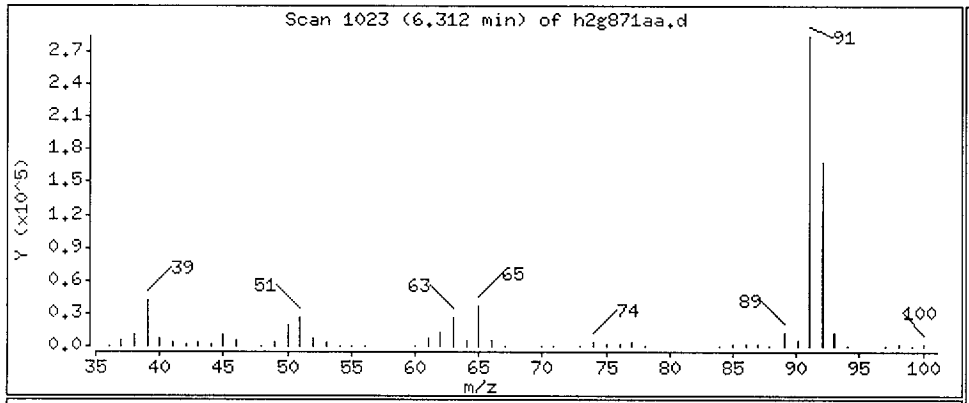
Operator: 22980

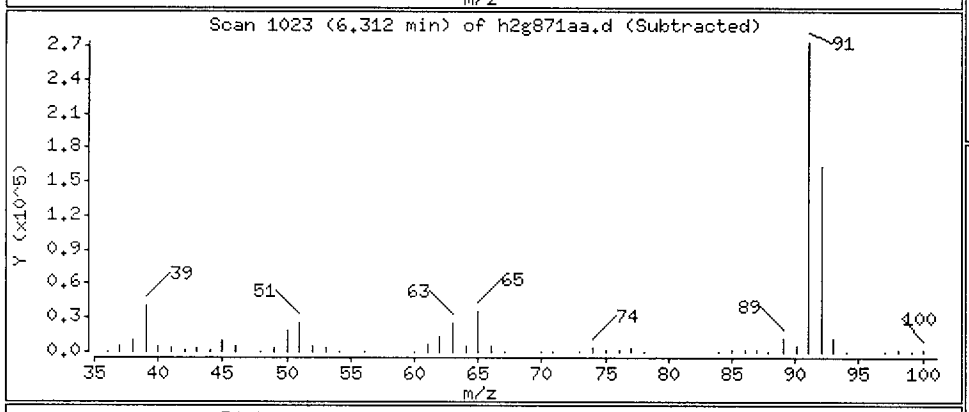
Column phase: J+W 624

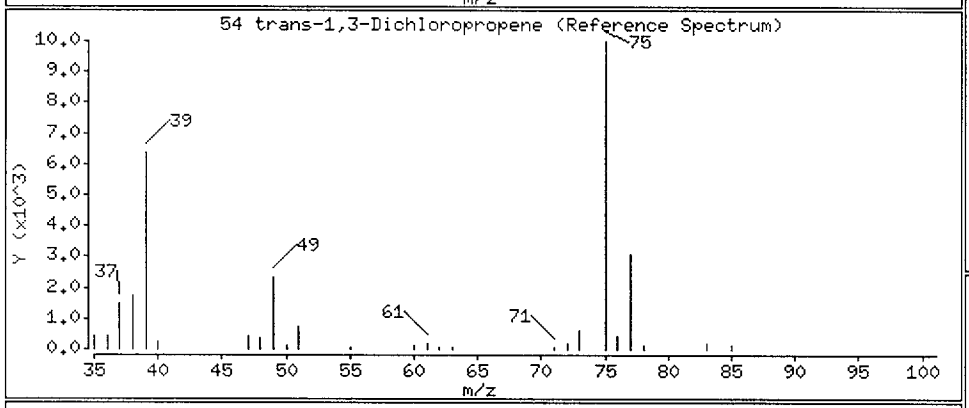
Column diameter: 0.18

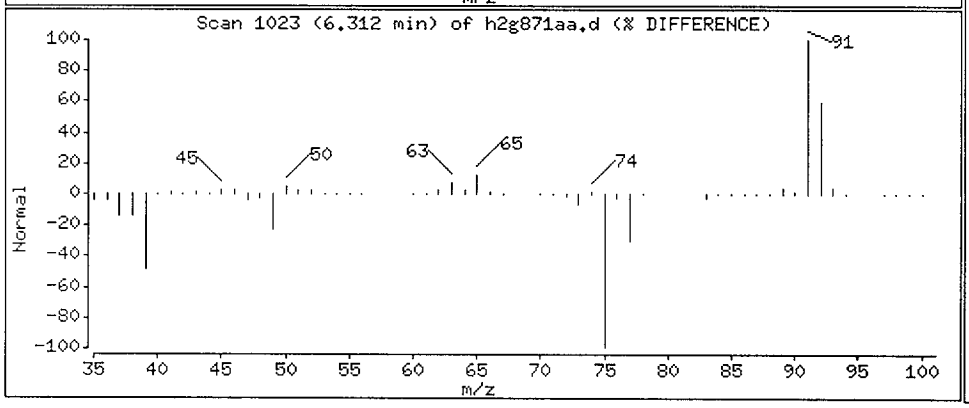
54 trans-1,3-Dichloropropene

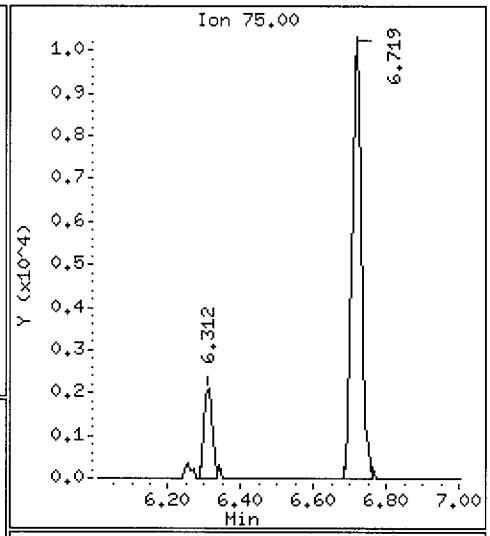
Concentration: 0.0031312 ug

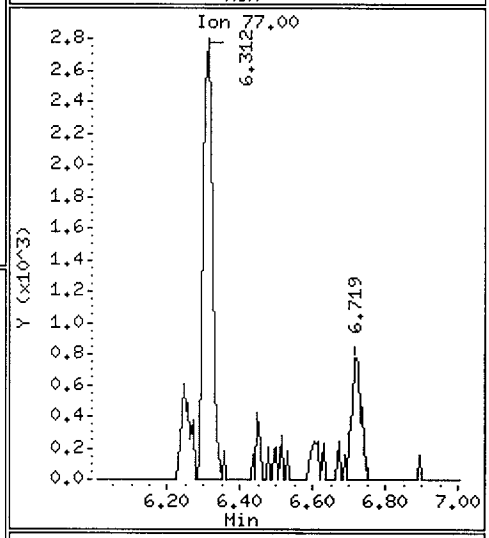


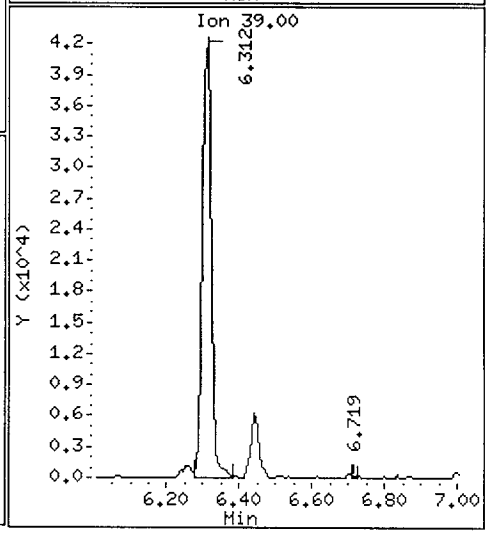












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

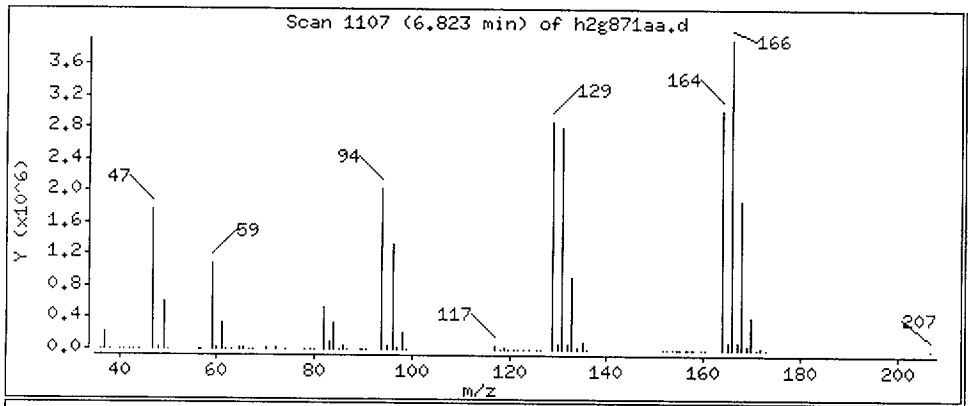
Operator: 22980

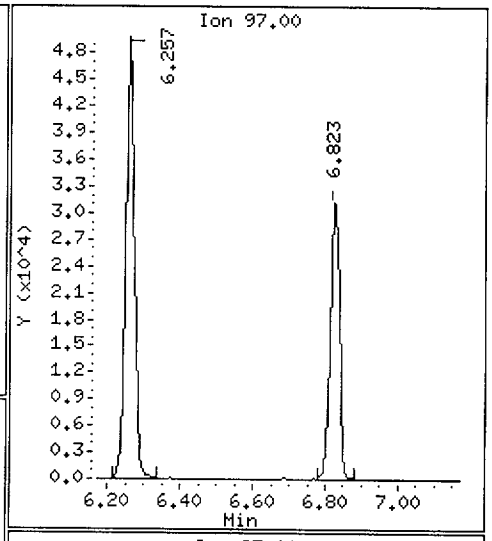
Column phase: J+W 624

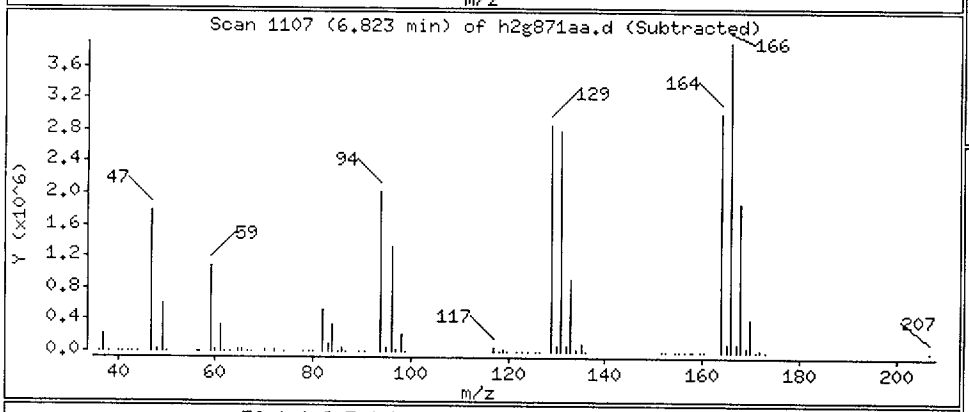
Column diameter: 0.18

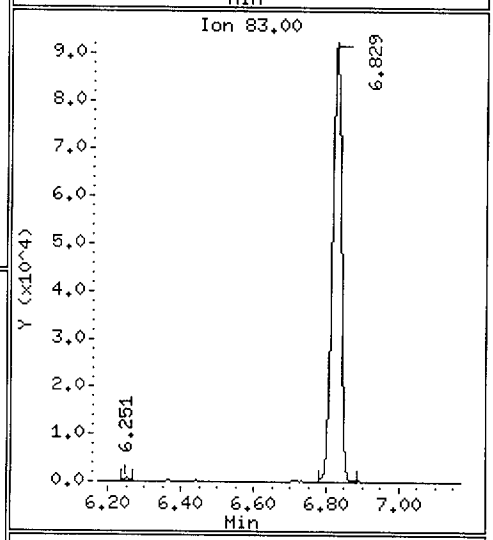
56 1,1,2-Trichloroethane

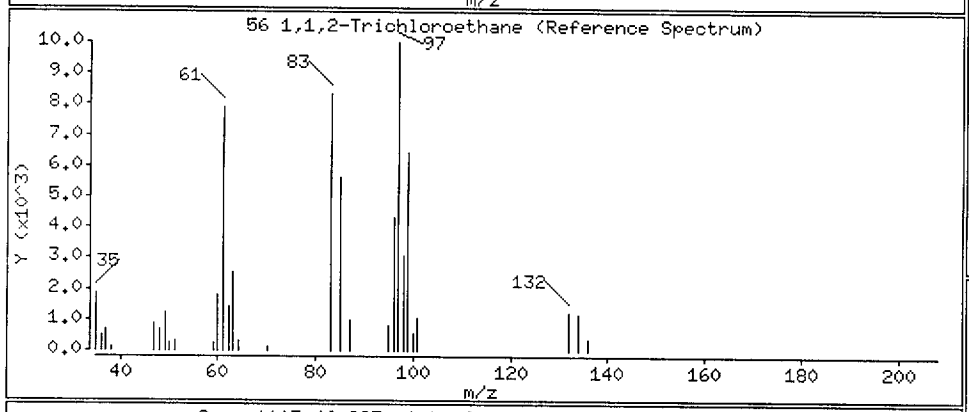
Concentration: 0.11962 ug

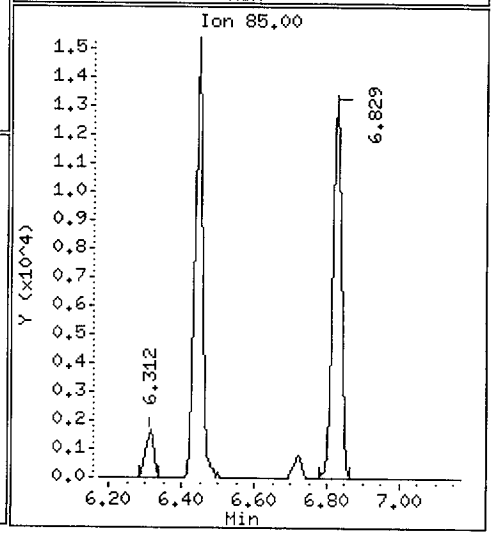


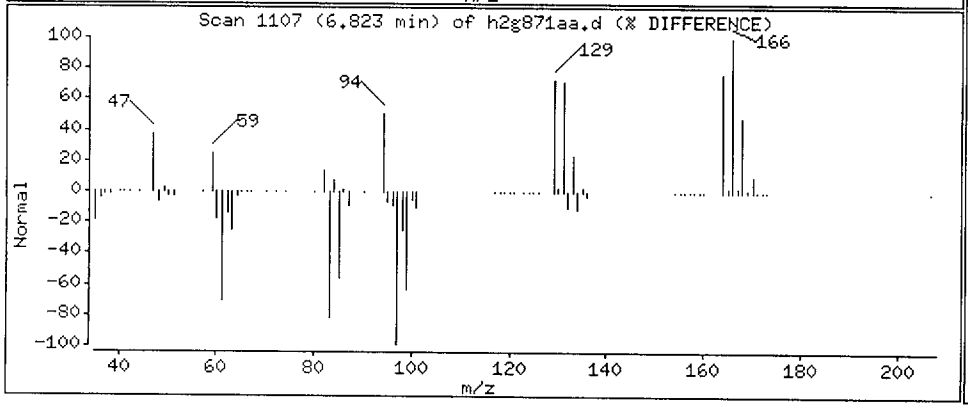












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

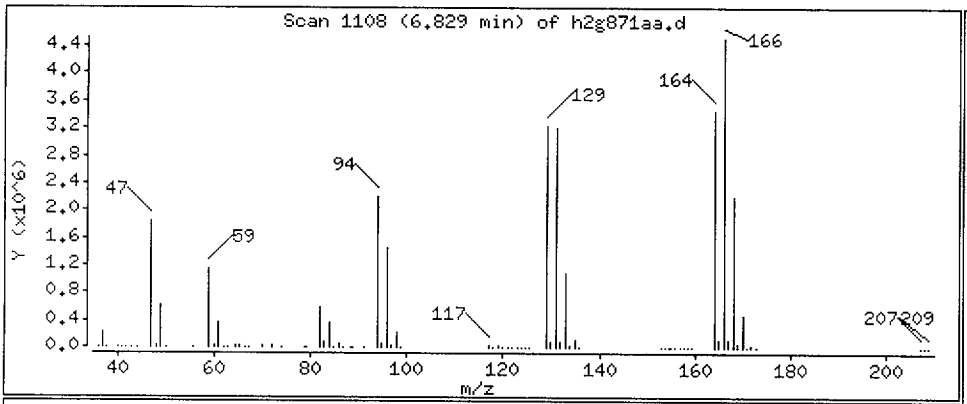
Operator: 22980

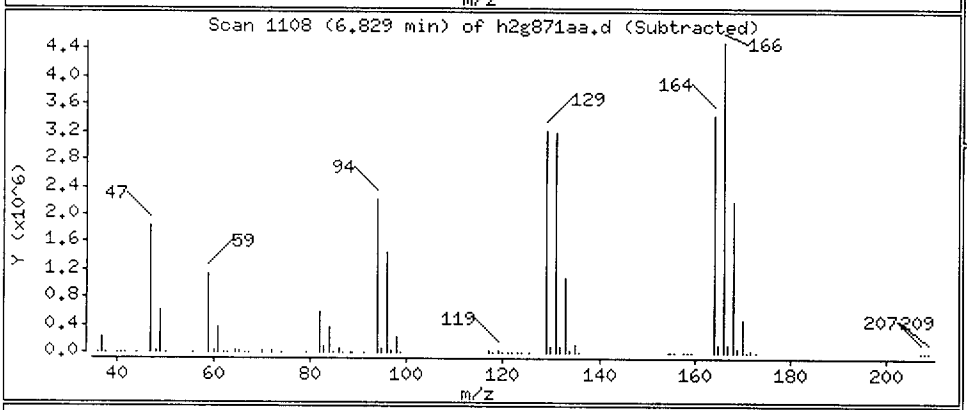
Column phase: J+W 624

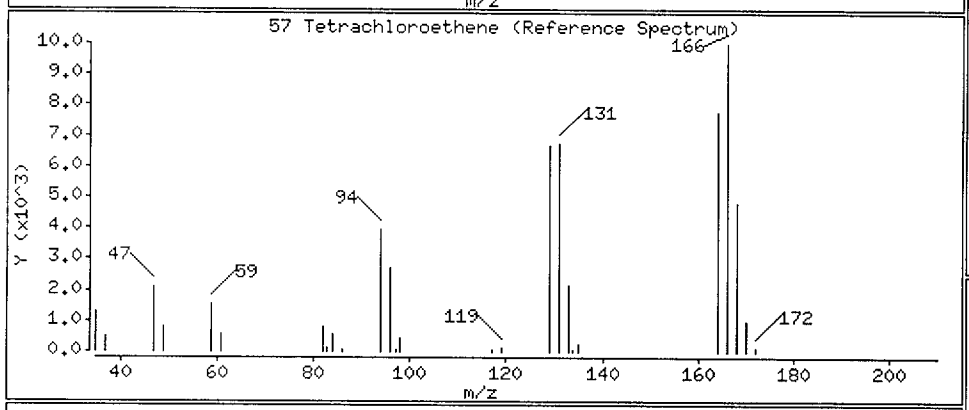
Column diameter: 0.18

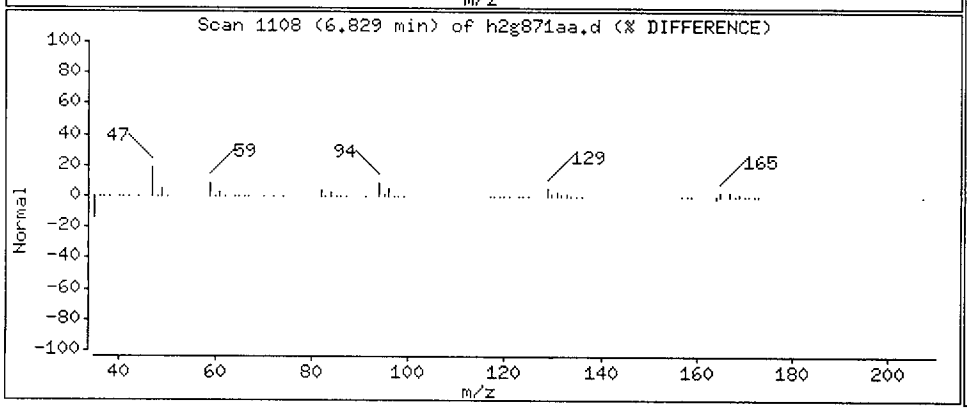
57 Tetrachloroethene

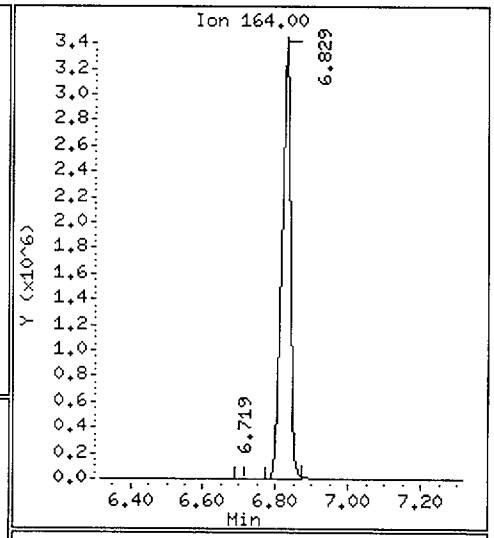
Concentration: 4.6769 ug

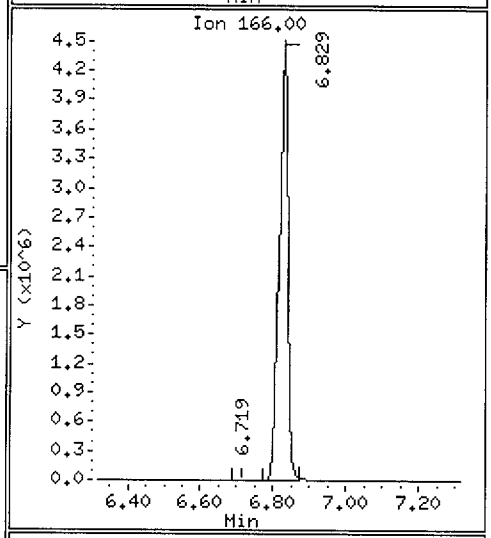


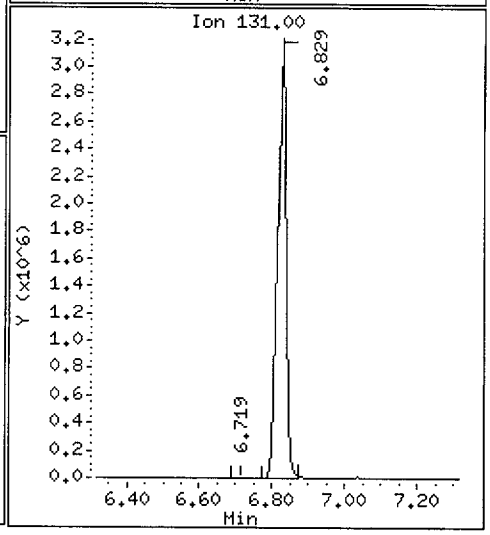












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

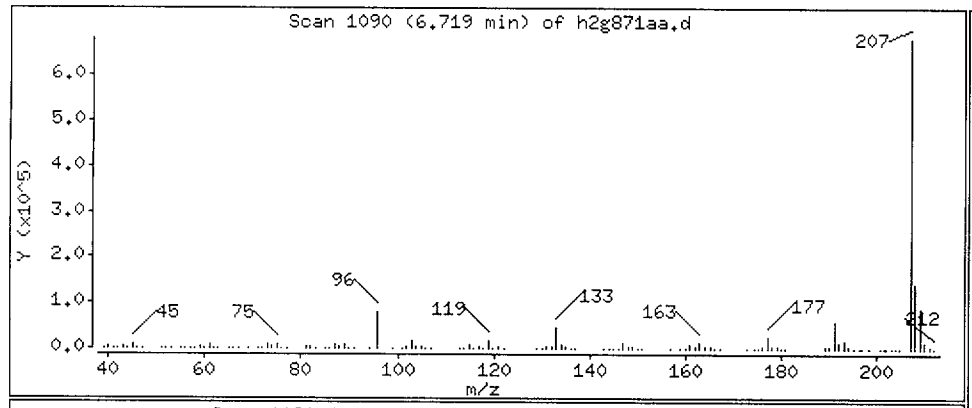
Operator: 22980

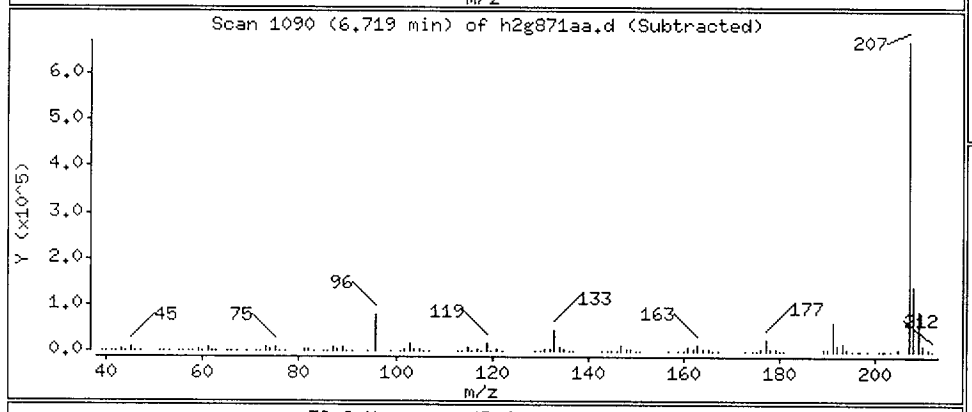
Column phase: J+W 624

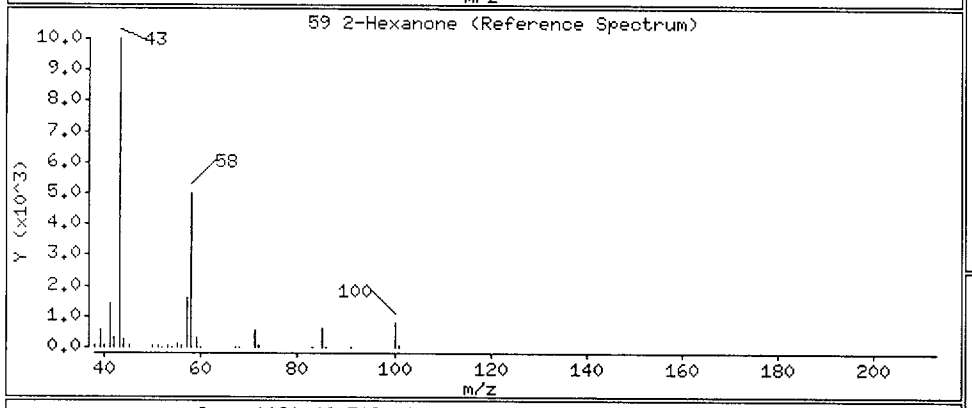
Column diameter: 0.18

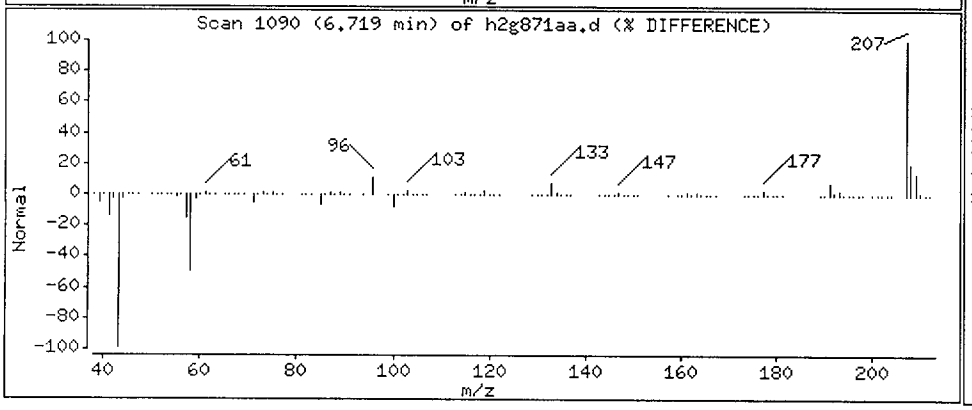
59 2-Hexanone

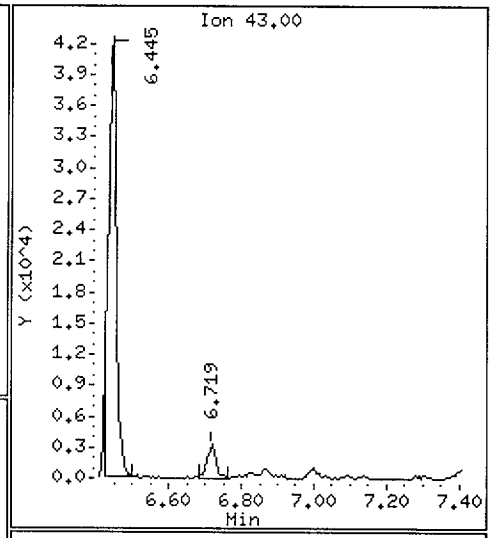
Concentration: 0.029065 ug

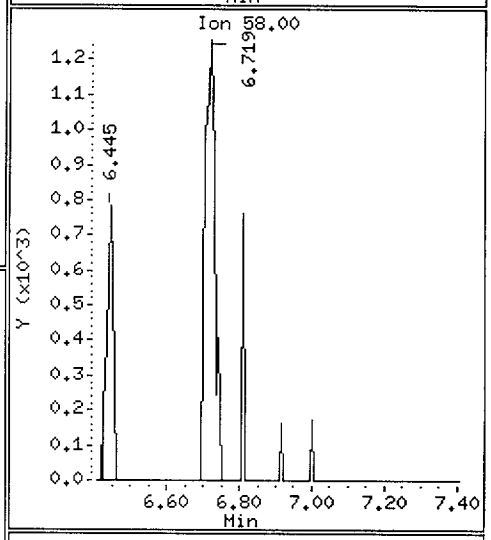


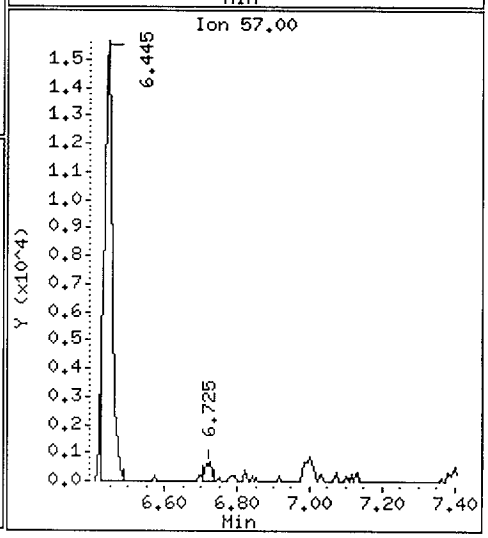












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

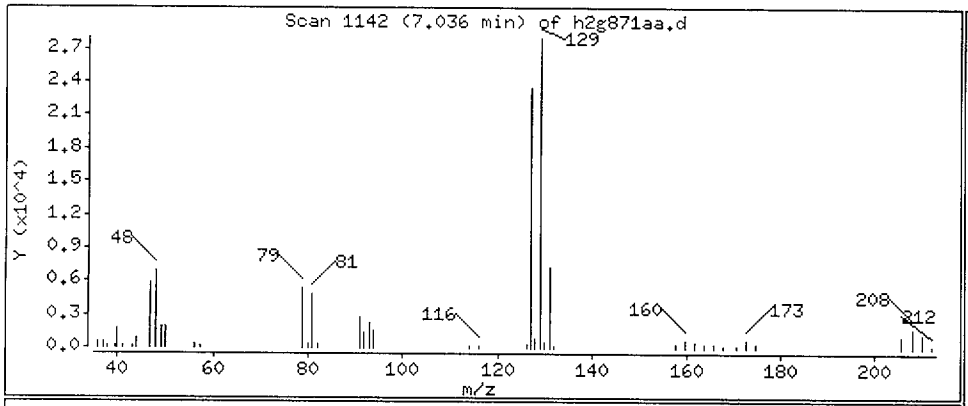
Operator: 22980

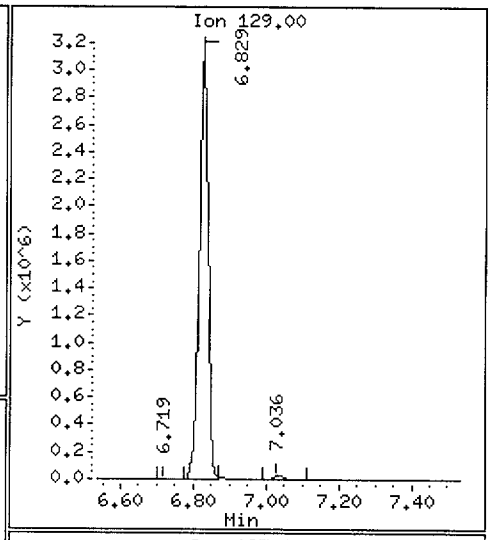
Column phase: J+W 624

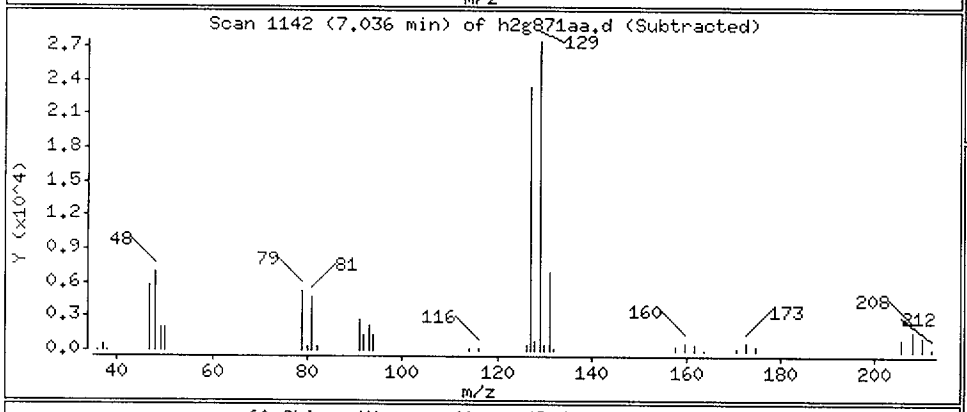
Column diameter: 0.18

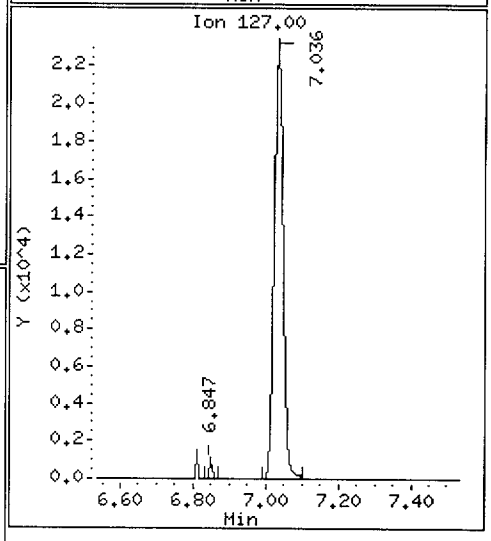
60 Chlorodibromomethane

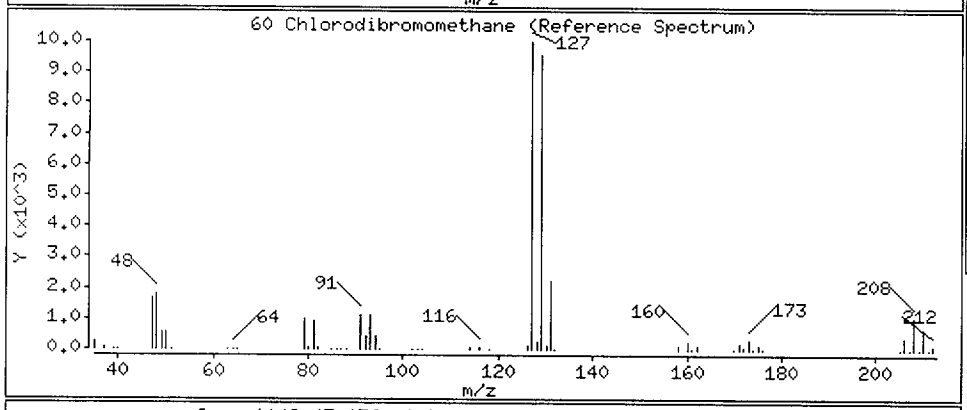
Concentration: 0.086113 ug

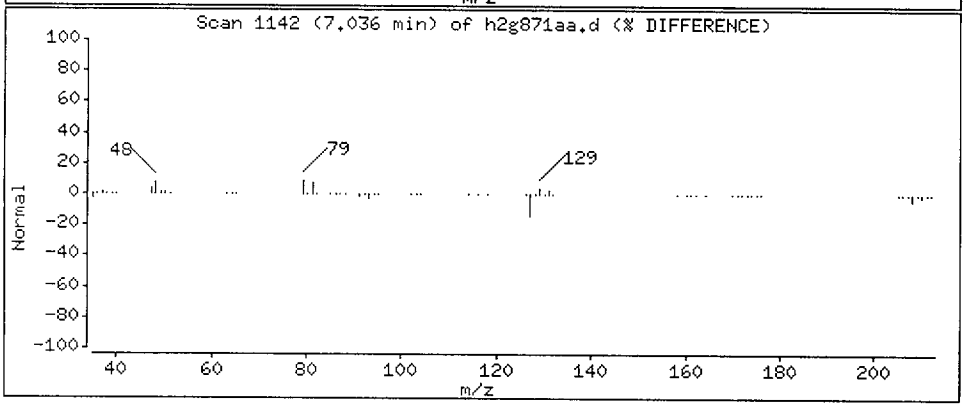












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

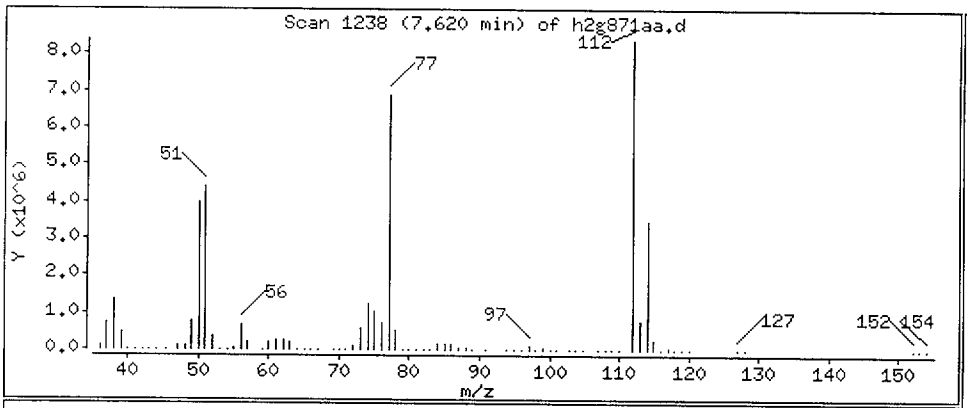
Operator: 22980

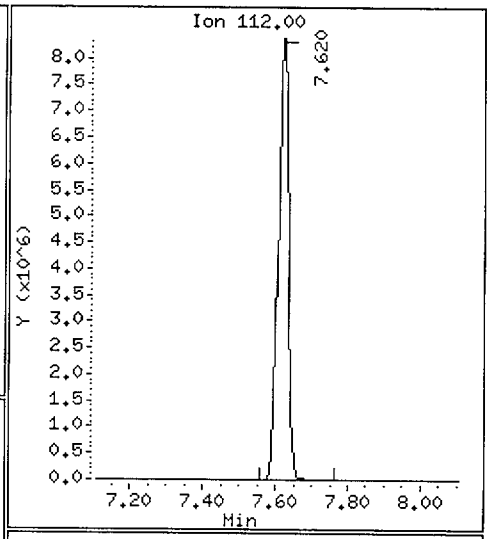
Column phase: J+W 624

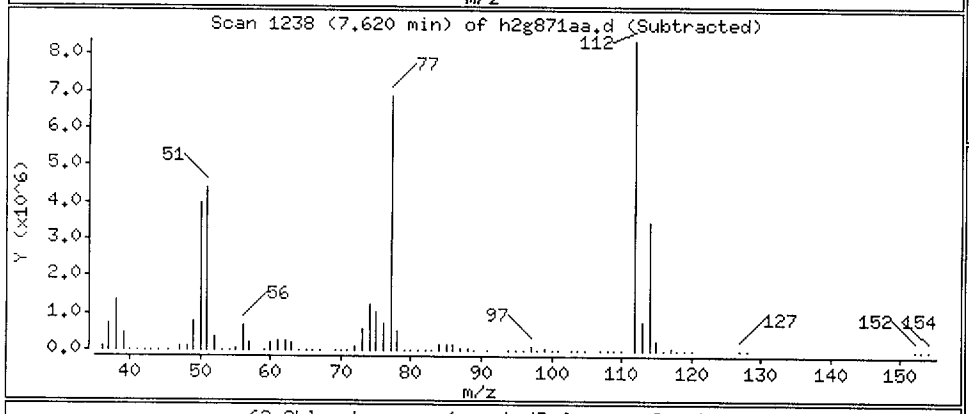
Column diameter: 0.18

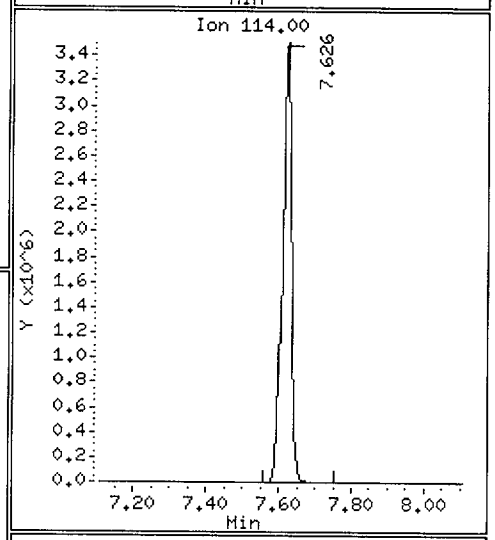
62 Chlorobenzene (spcc)

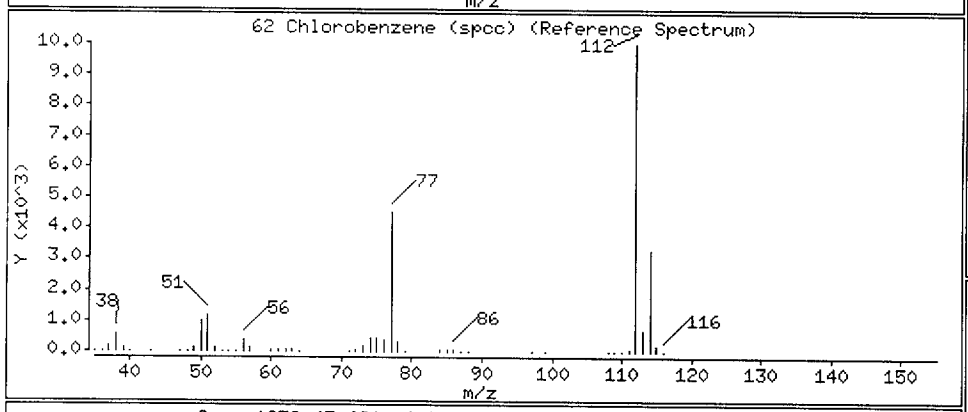
Concentration: 5.7610 ug

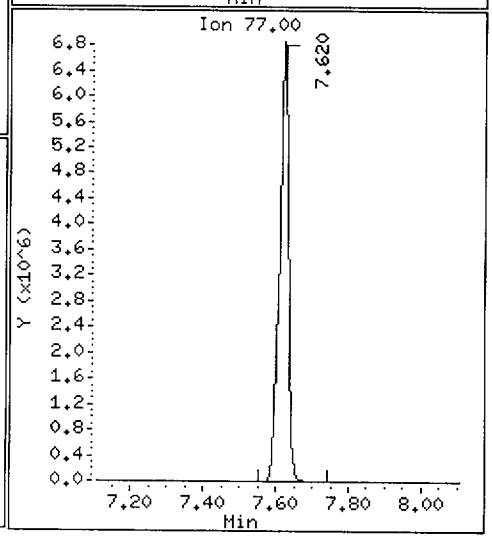


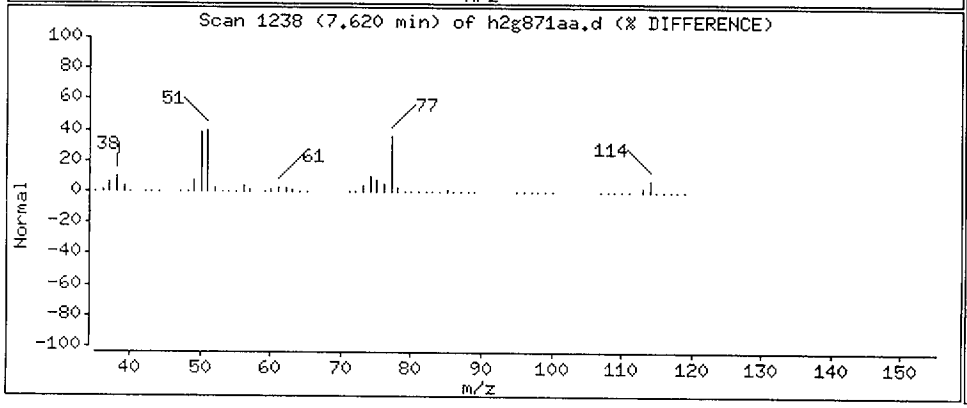












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

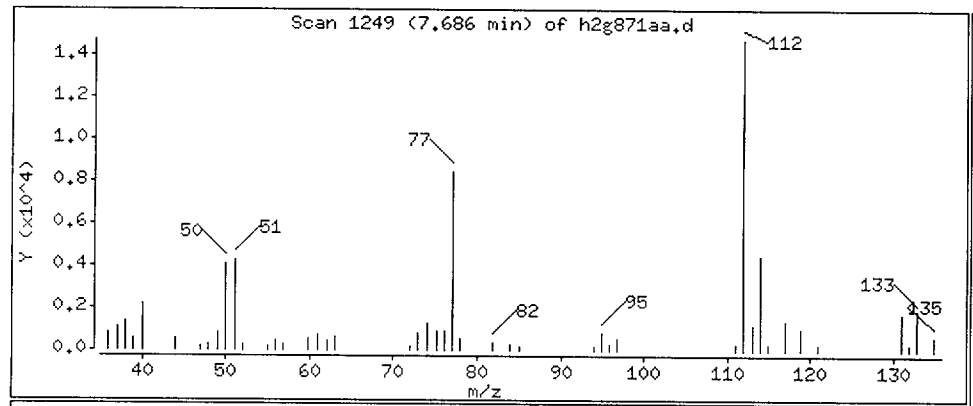
Operator: 22980

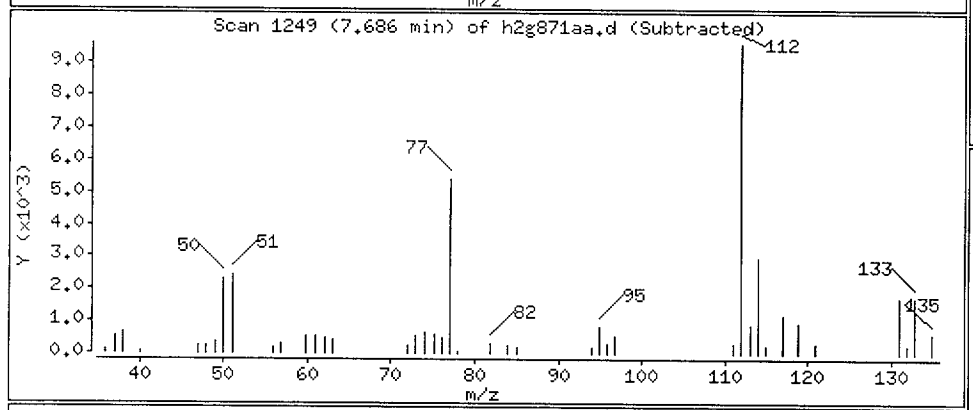
Column phase: J+W 624

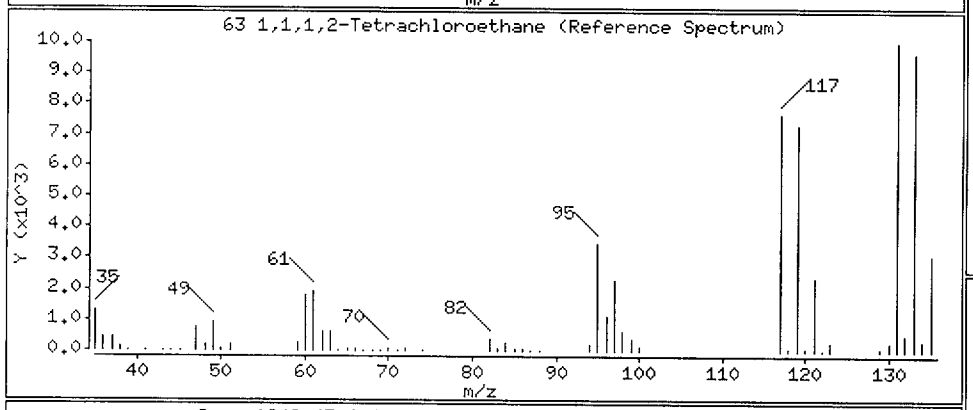
Column diameter: 0.18

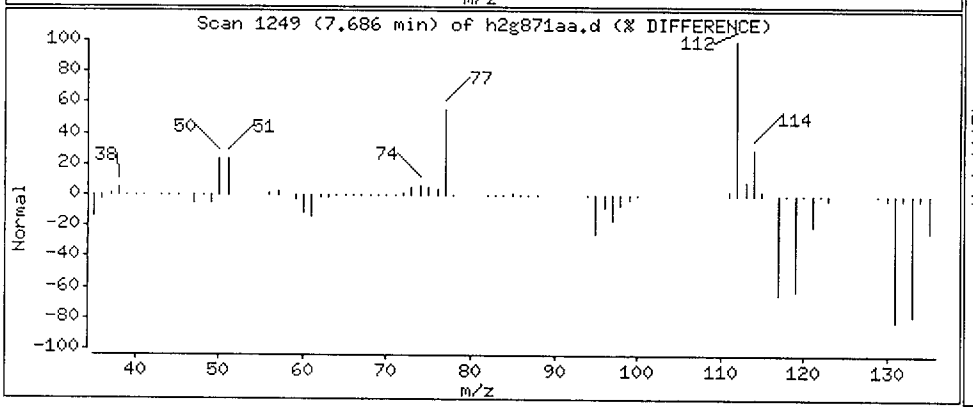
63 1,1,1,2-Tetrachloroethane

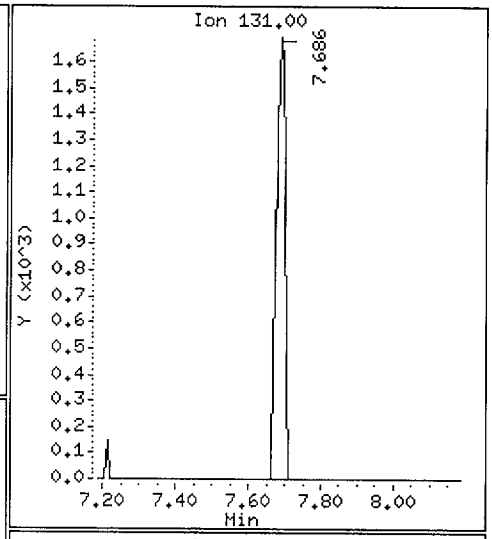
Concentration: 0.0027604 ug

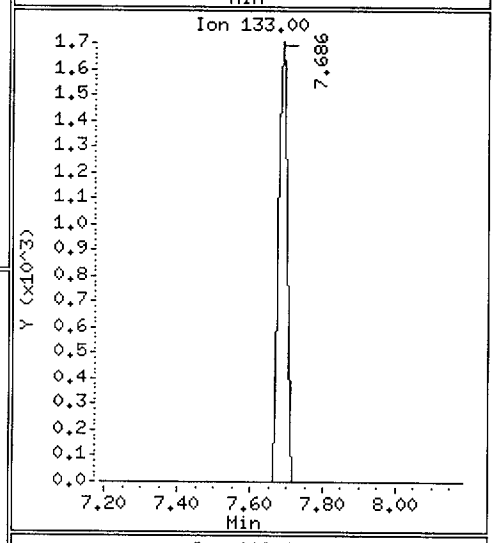


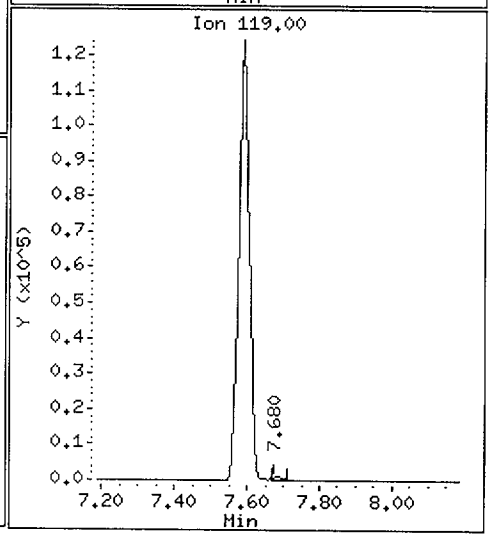












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

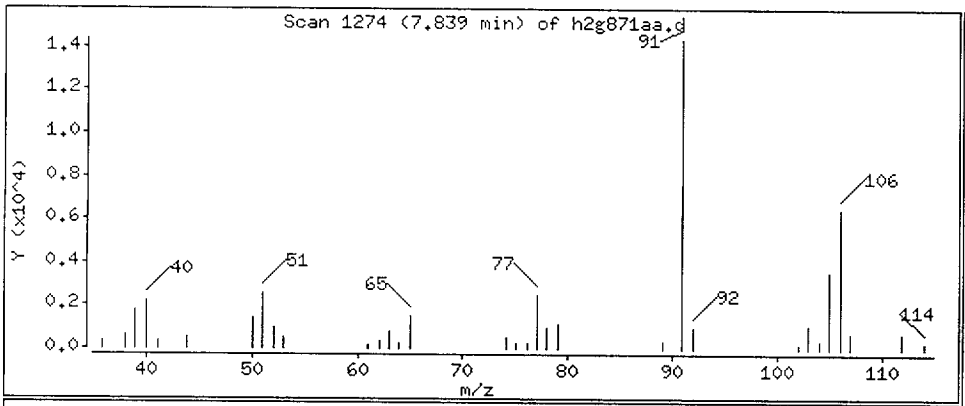
Operator: 22980

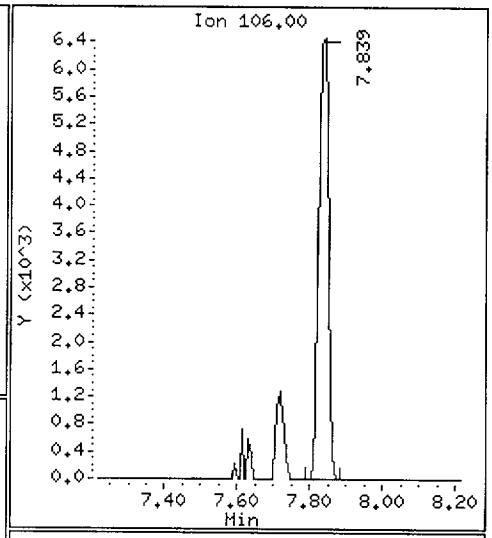
Column phase: J+W 624

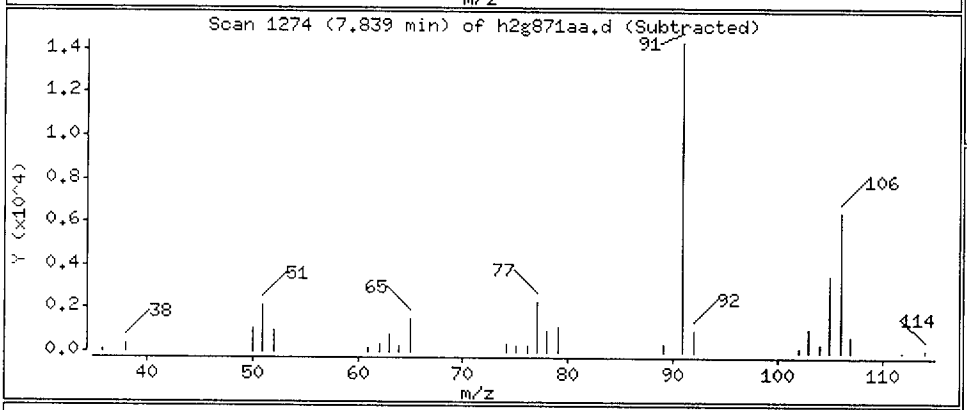
Column diameter: 0.18

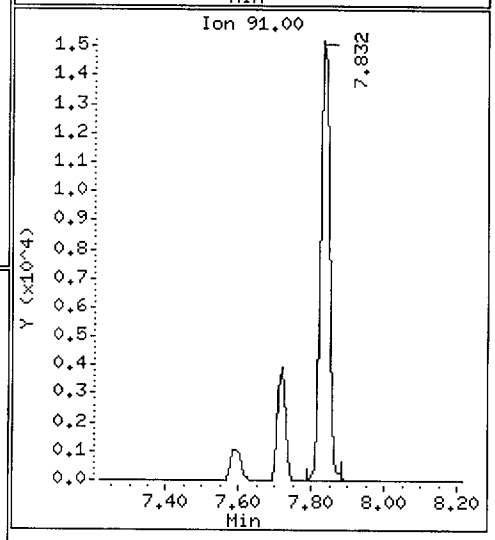
64 Ethylbenzene (ccc)

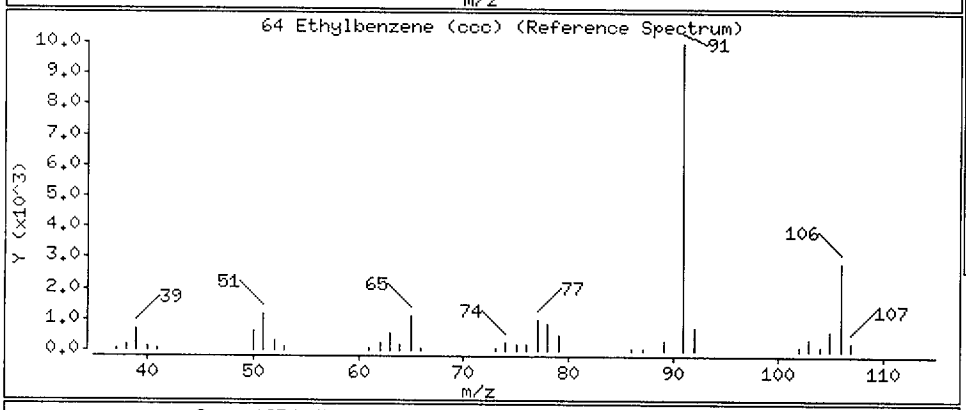
Concentration: 0.0057143 ug

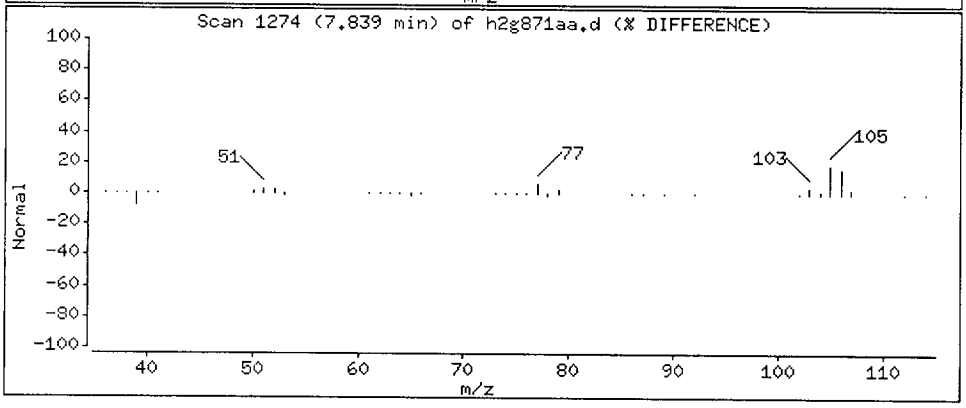












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

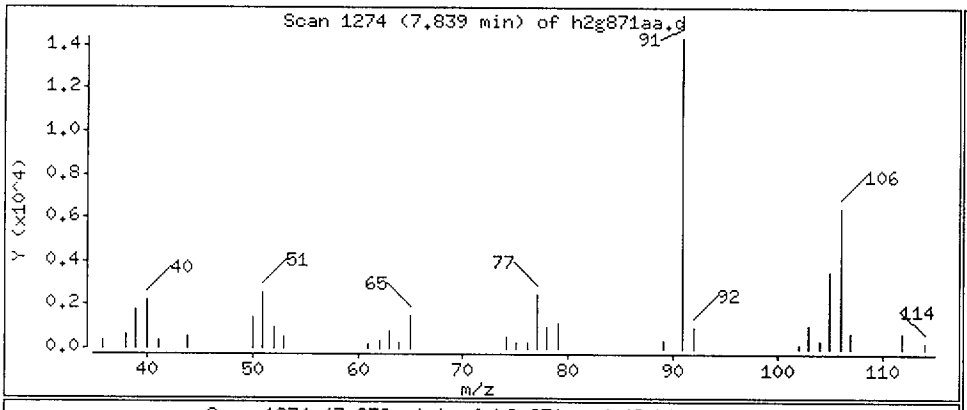
Operator: 22980

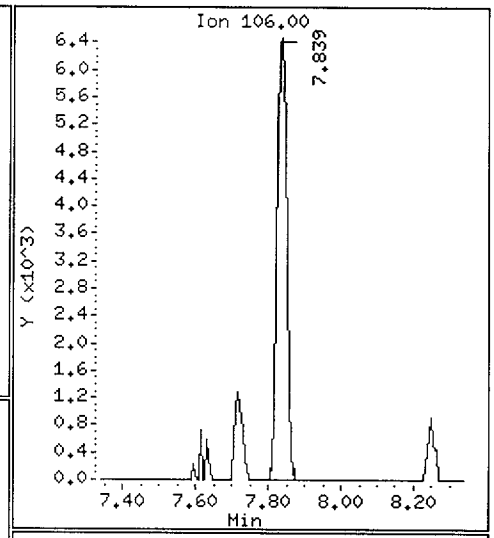
Column phase: J+W 624

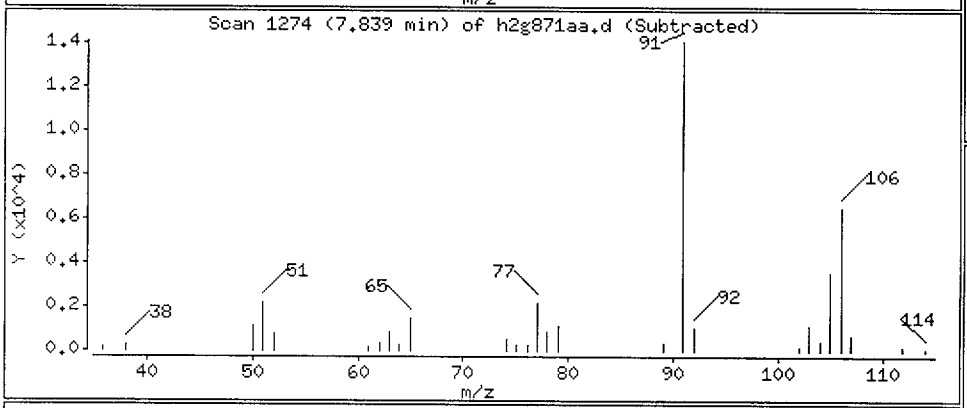
Column diameter: 0.18

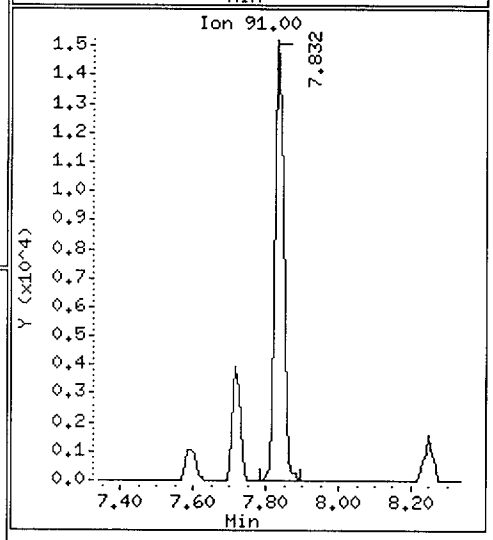
65 m&p-Xylene

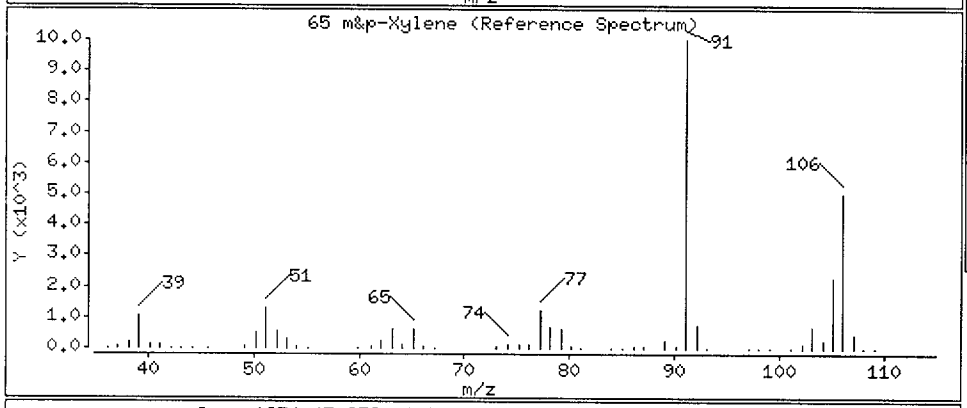
Concentration: 0.0048759 ug

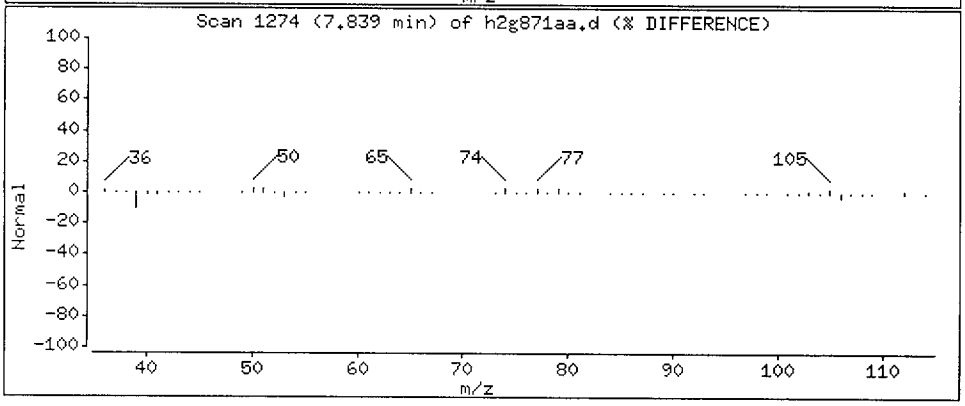












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

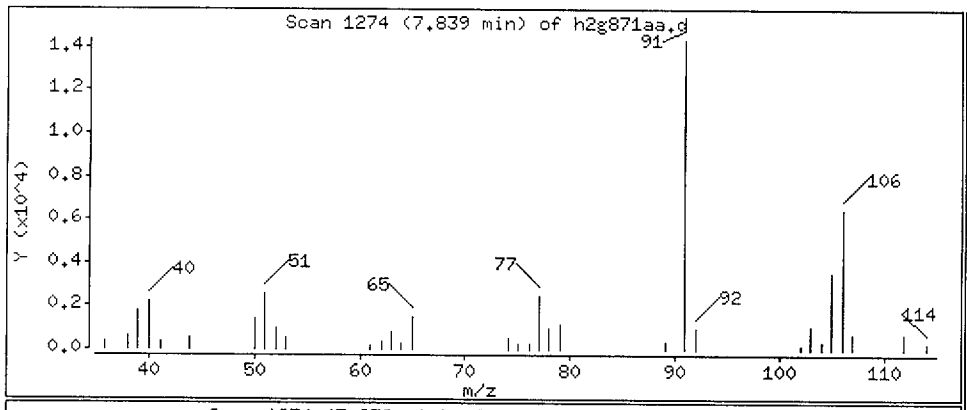
Operator: 22980

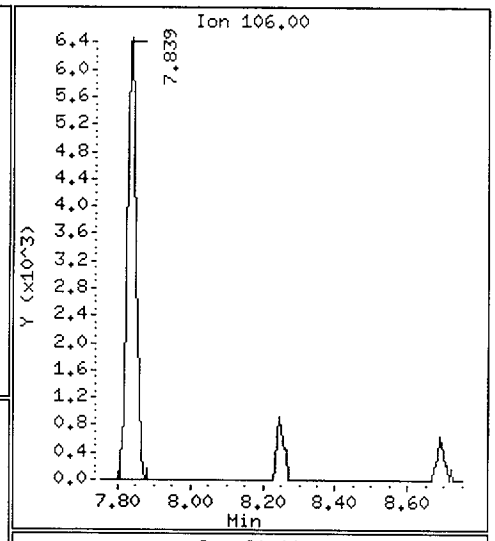
Column phase: J+W 624

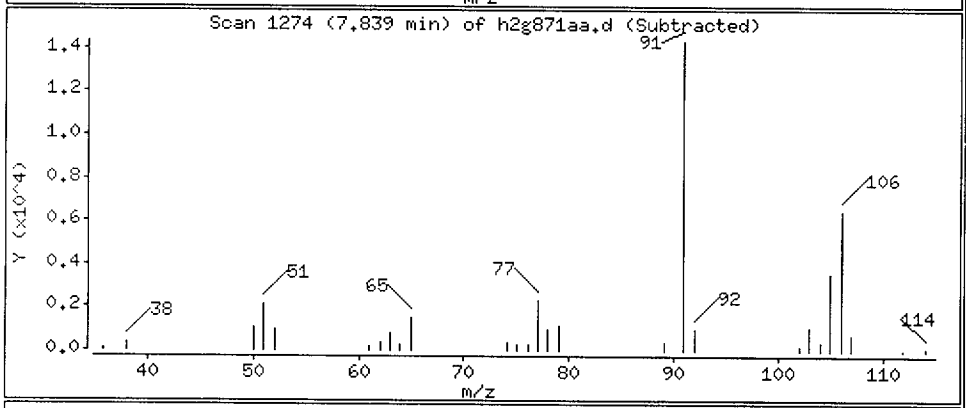
Column diameter: 0.18

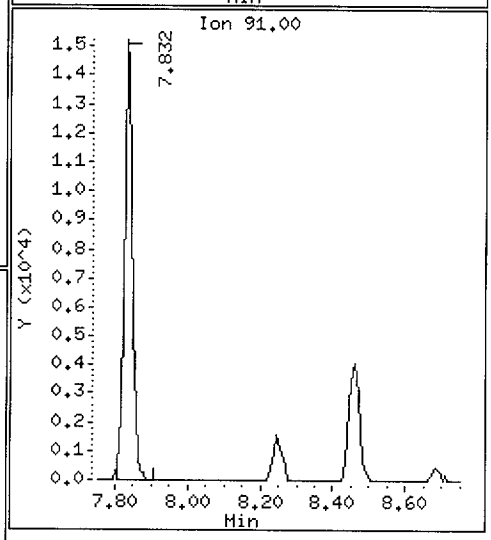
66 o-Xylene

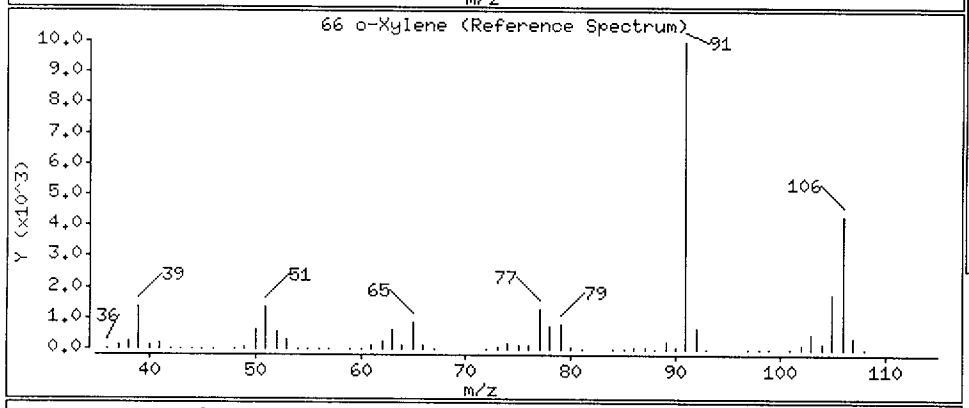
Concentration: 0.0056876 ug

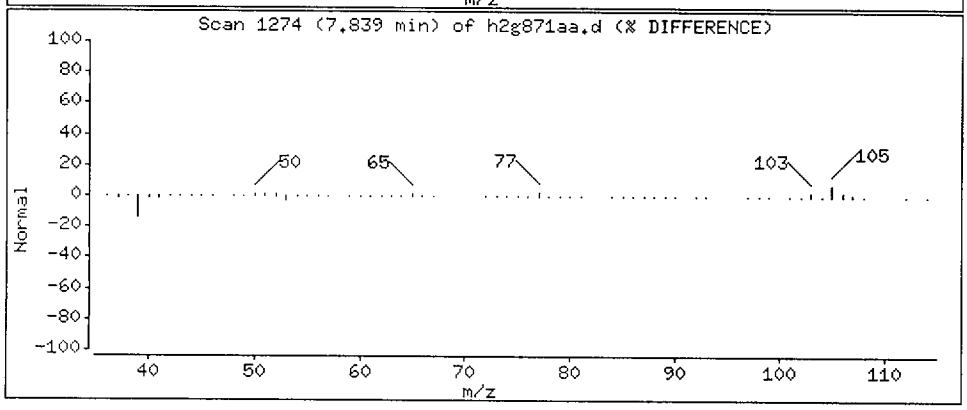












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

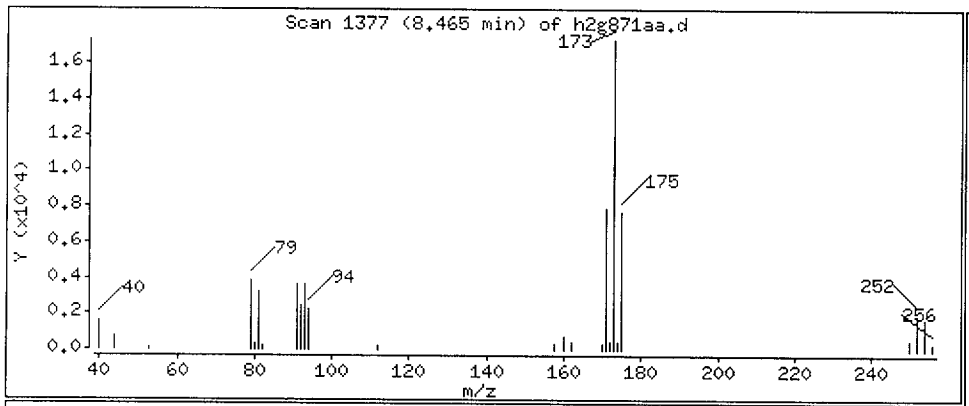
Operator: 22980

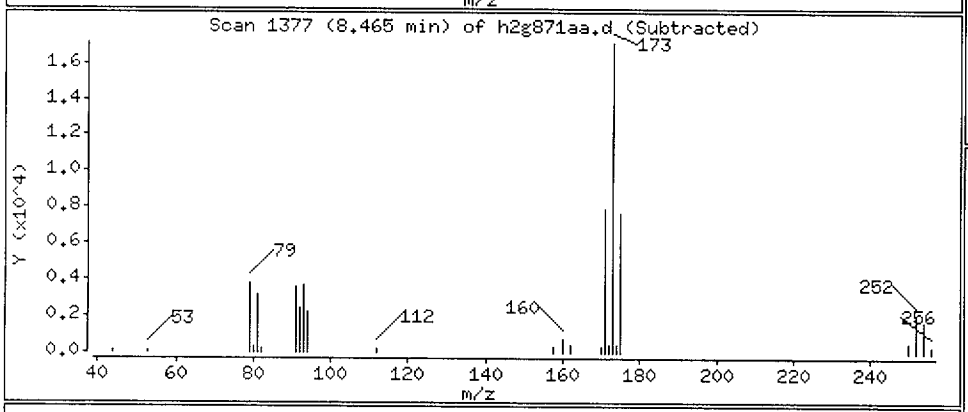
Column phase: J+W 624

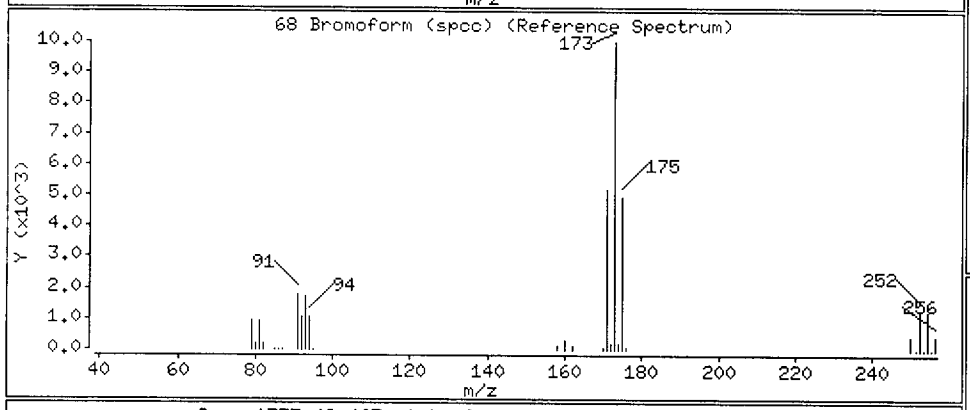
Column diameter: 0.18

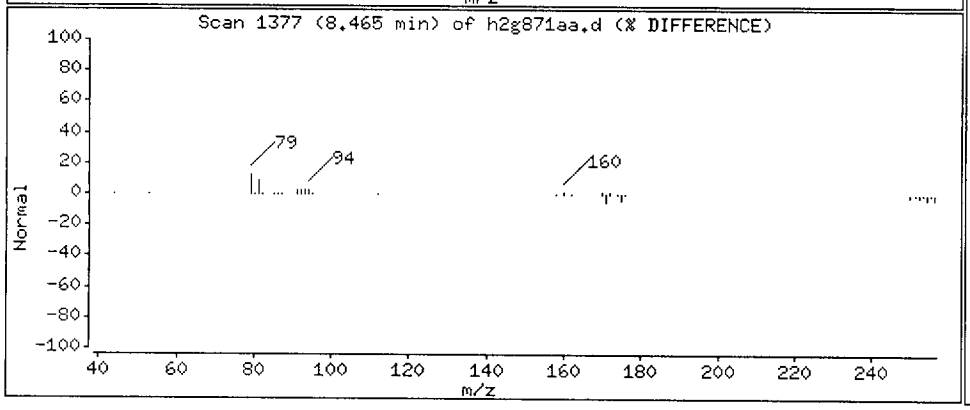
68 Bromoform (spec)

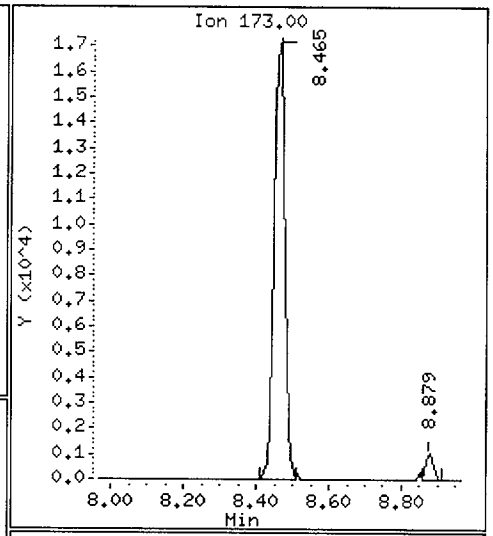
Concentration: 0.12604 ug

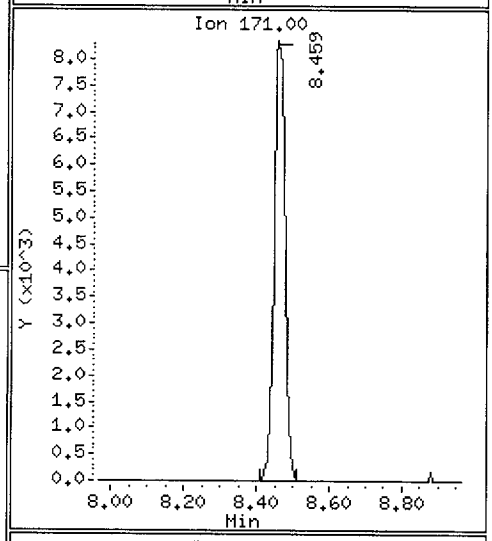


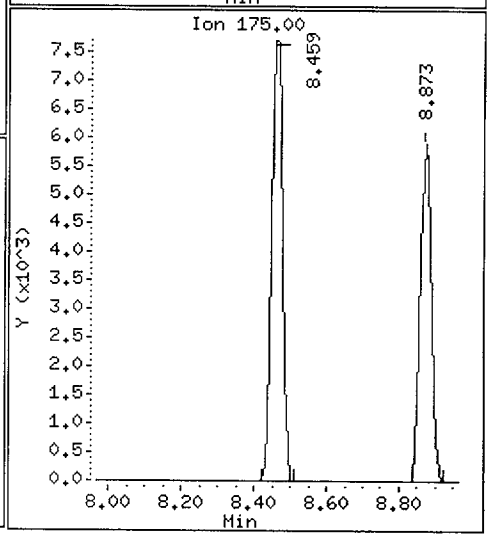












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

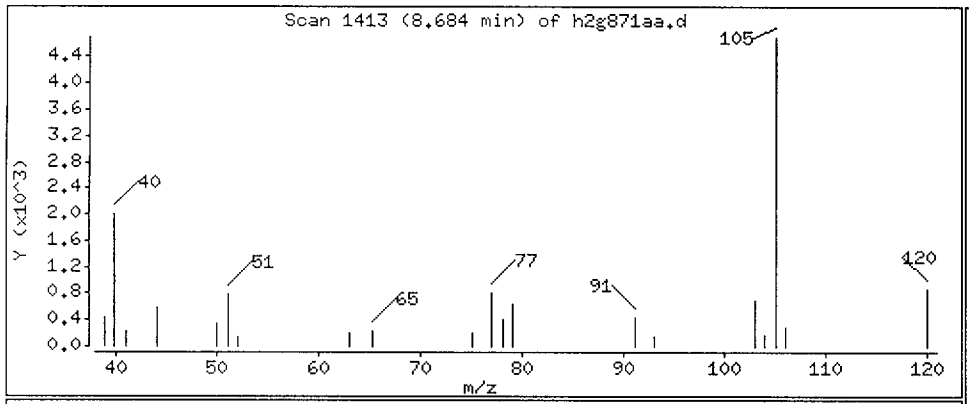
Operator: 22980

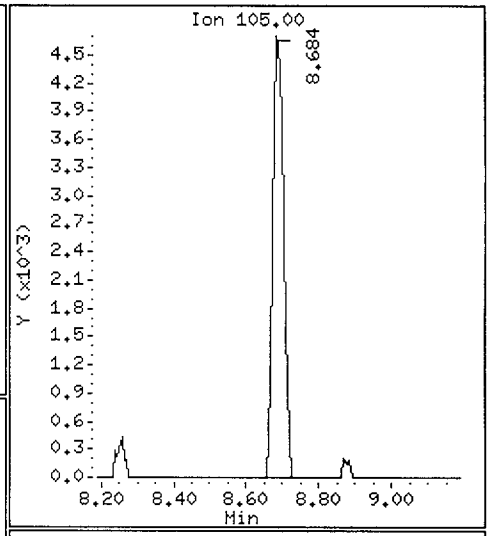
Column phase: J+W 624

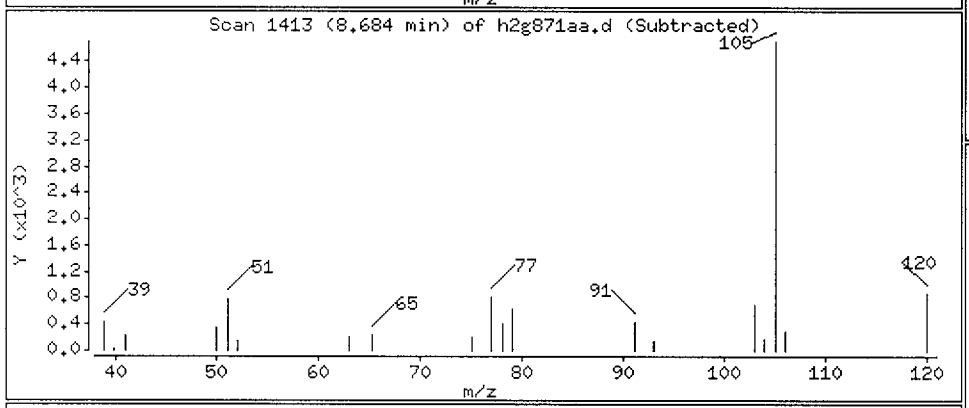
Column diameter: 0.18

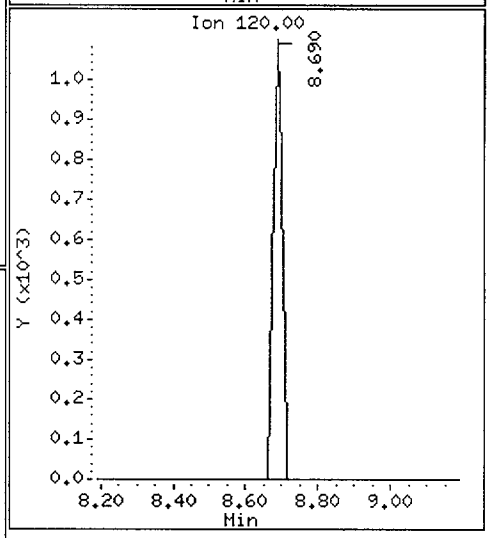
69 Isopropylbenzene

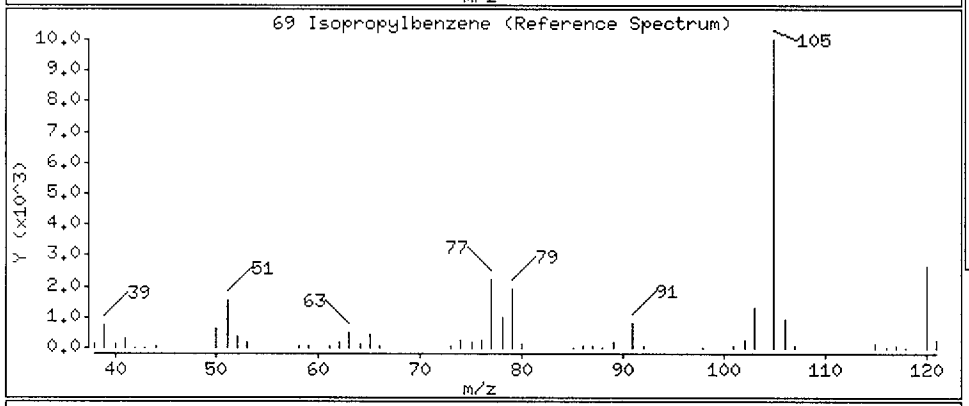
Concentration: 0.0014738 ug

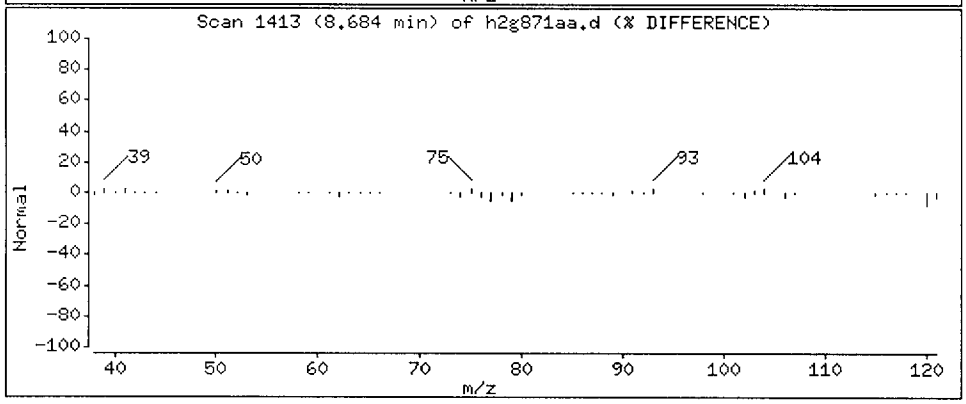












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

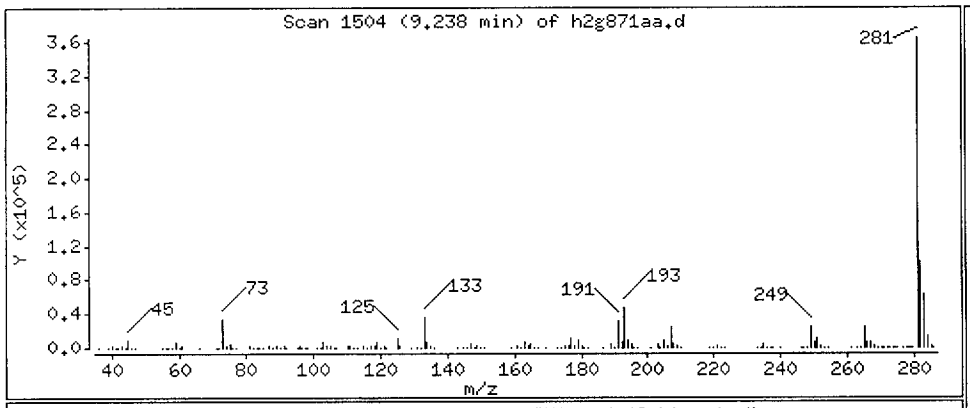
Operator: 22980

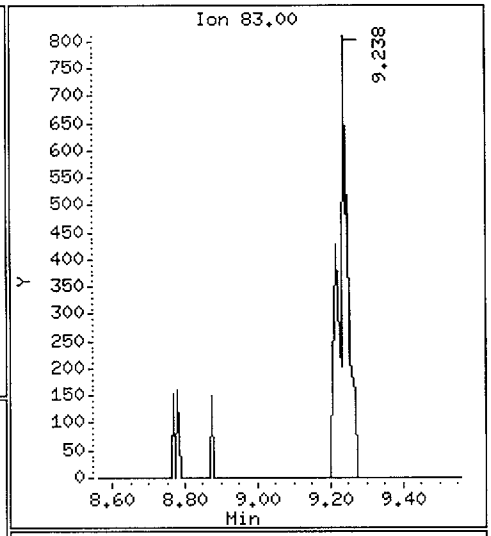
Column phase: J+W 624

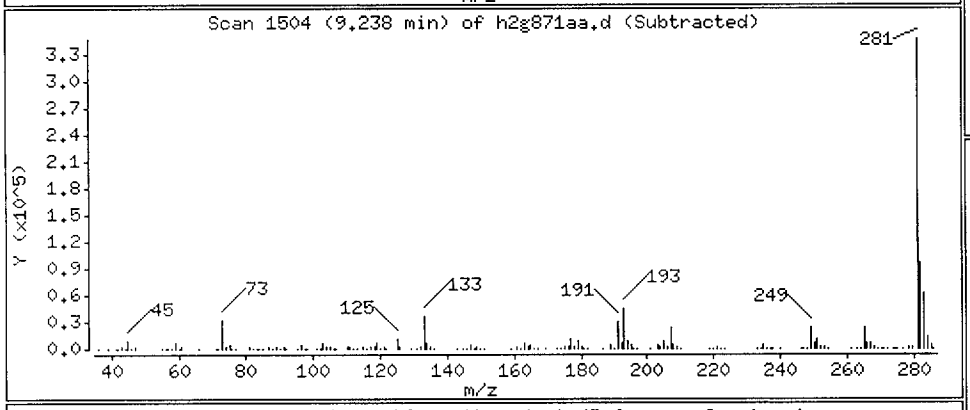
Column diameter: 0.18

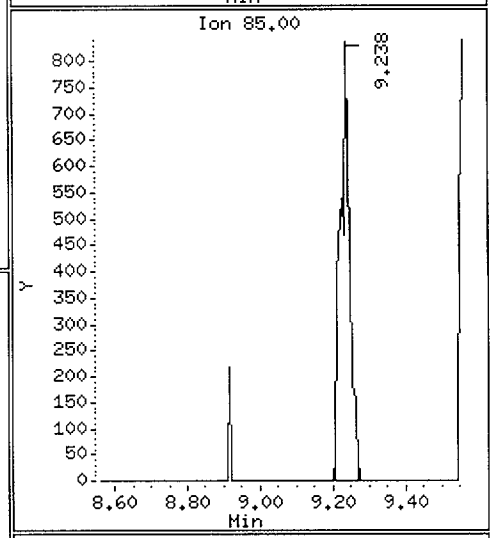
72 1,1,2,2-Tetrachloroethane(sp)

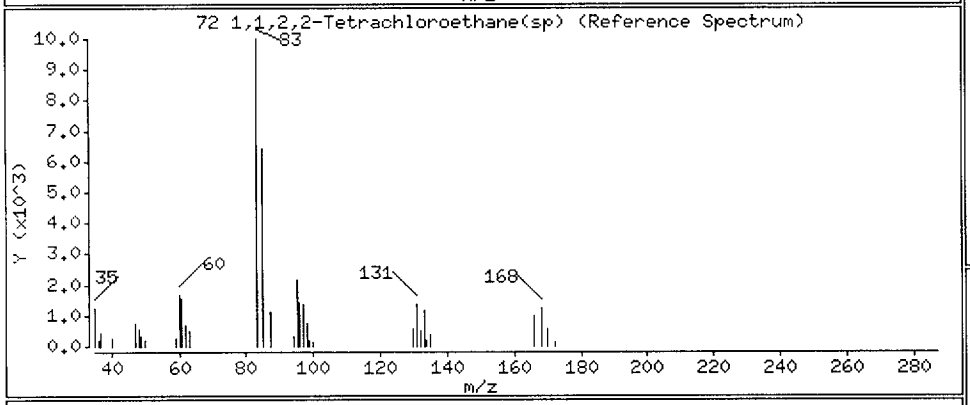
Concentration: 0.0037184 ug

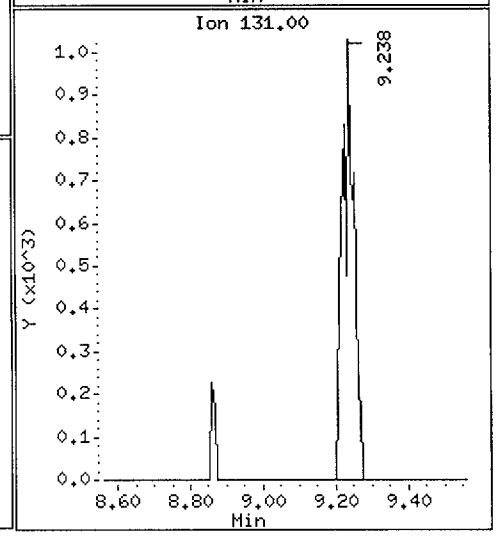


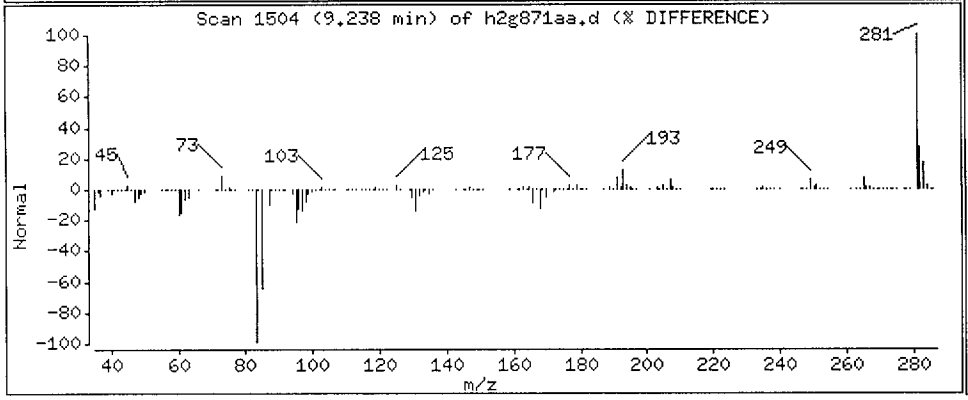












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

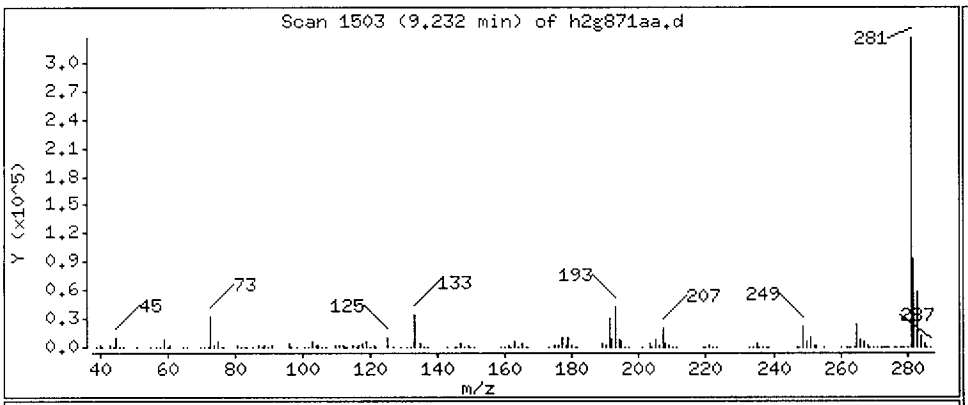
Operator: 22980

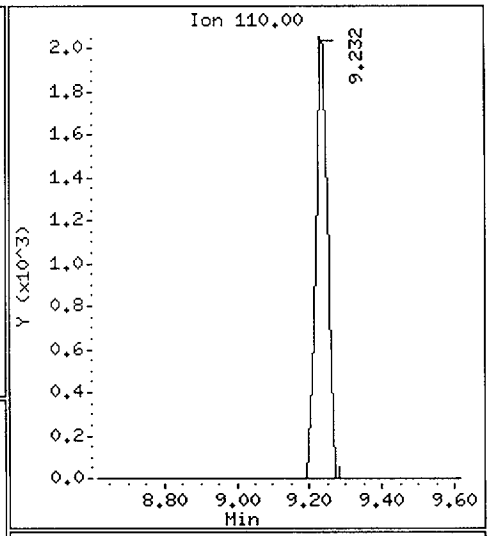
Column phase: J+W 624

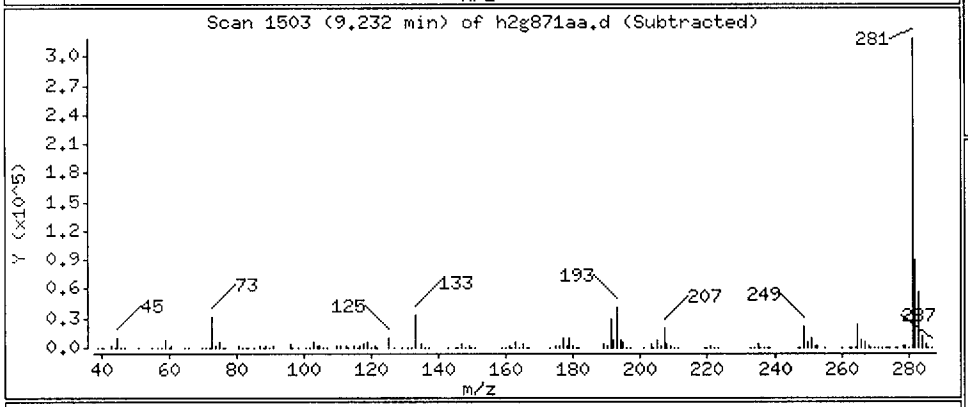
Column diameter: 0.18

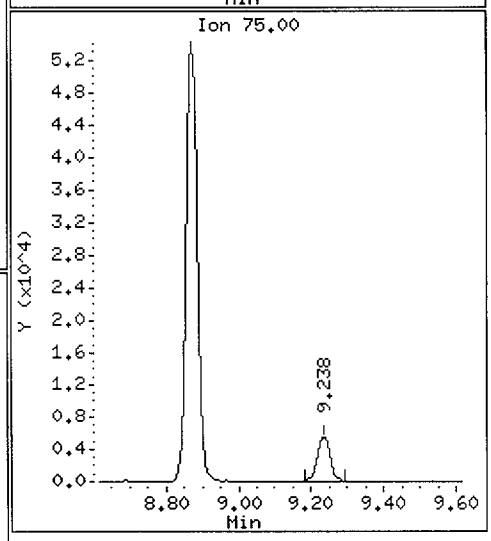
73 1,2,3-Trichloropropane

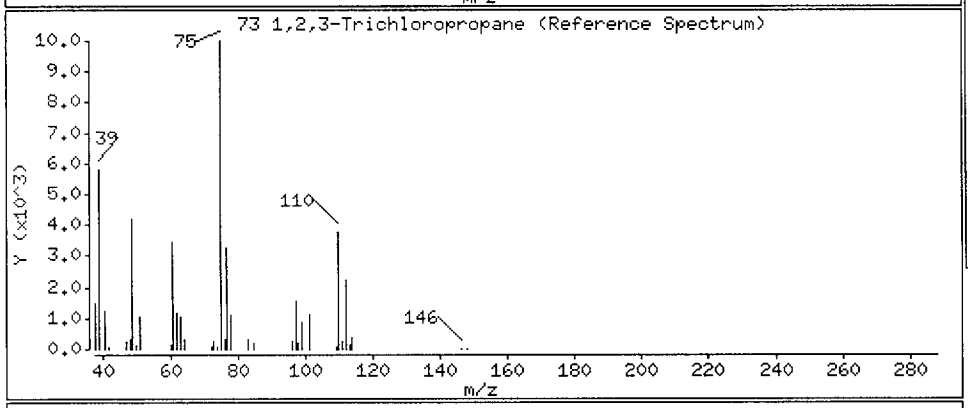
Concentration: 0.042169 ug

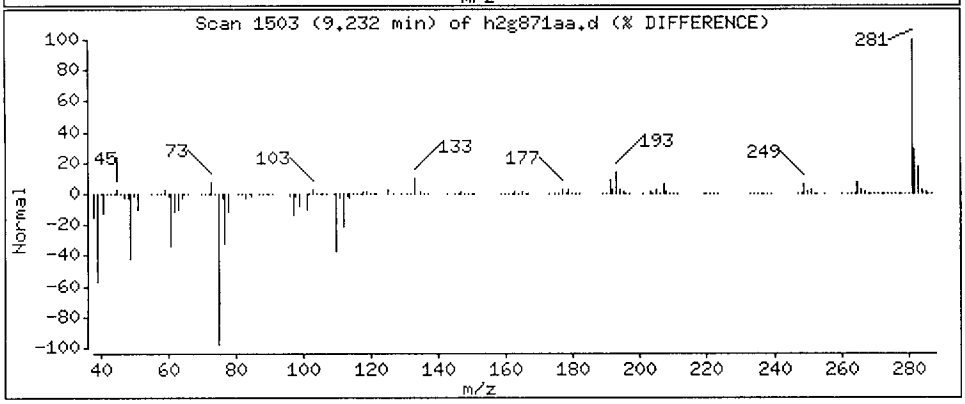












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

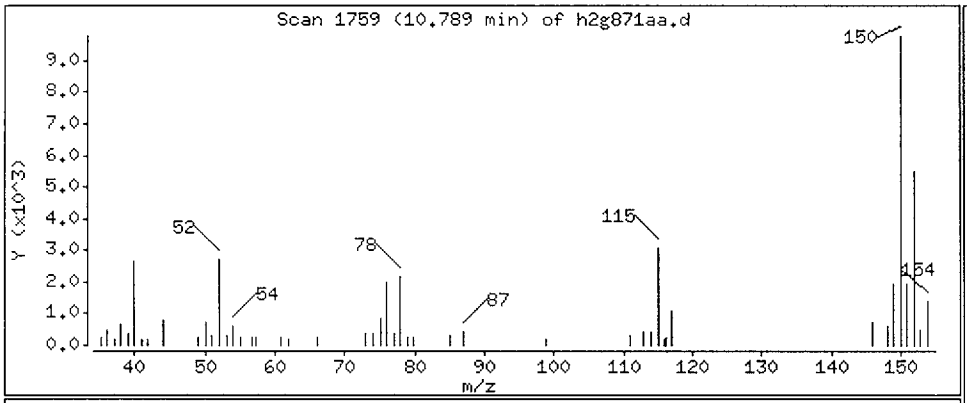
Operator: 22980

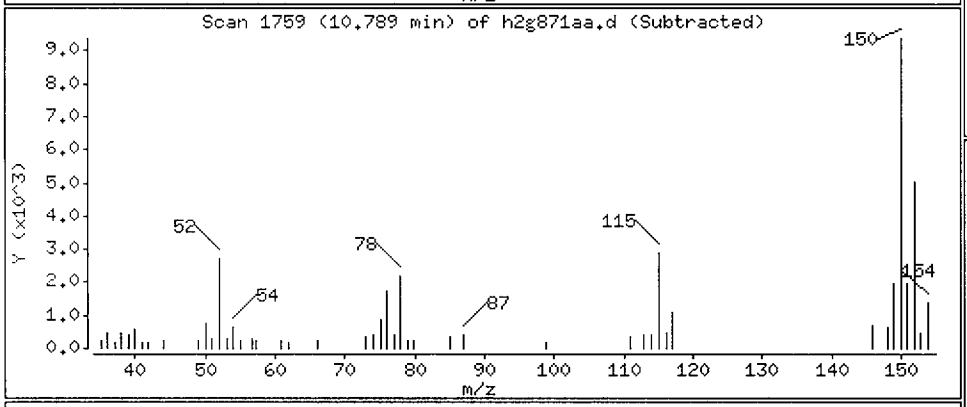
Column phase: J+W 624

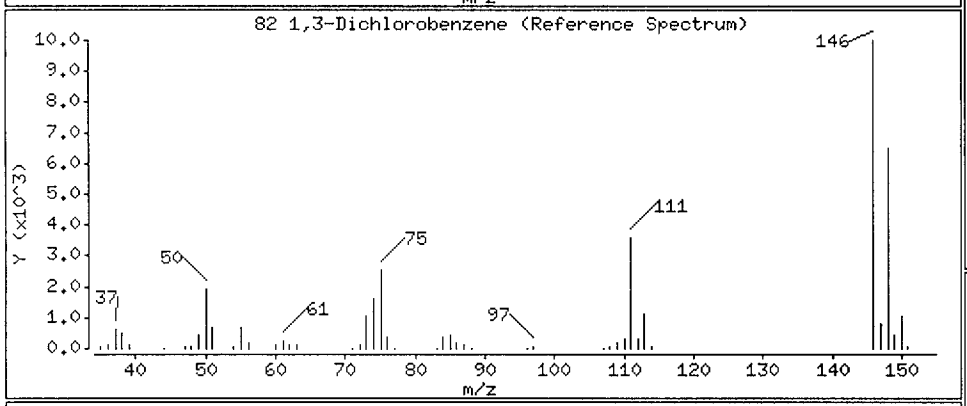
Column diameter: 0.18

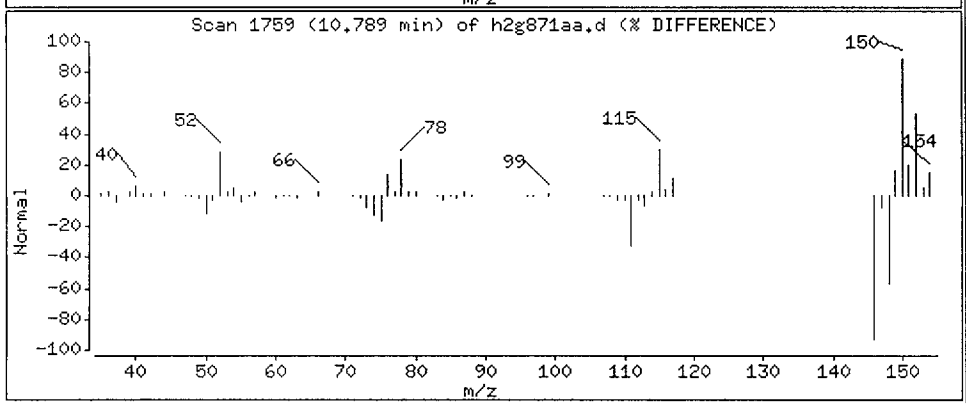
82 1,3-Dichlorobenzene

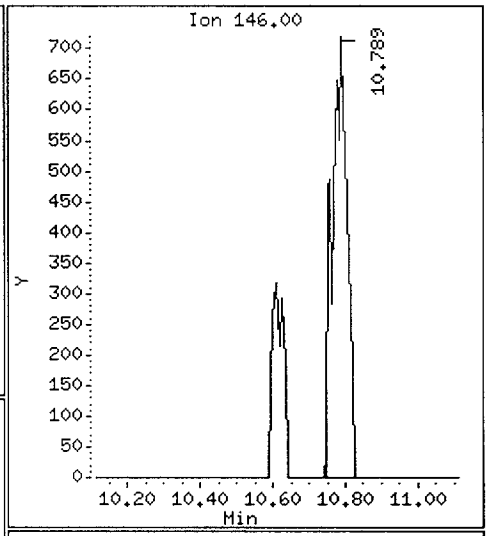
Concentration: 0.0010559 ug

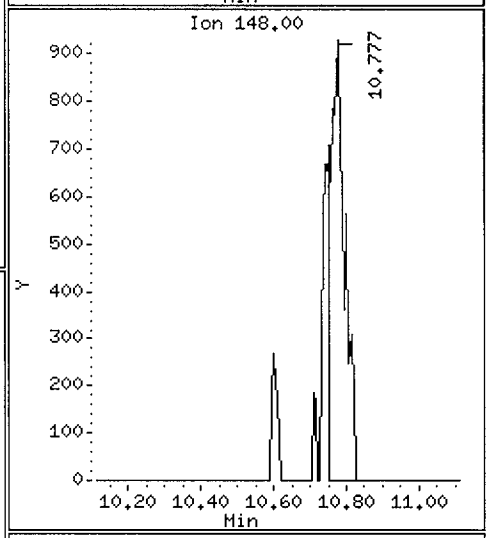


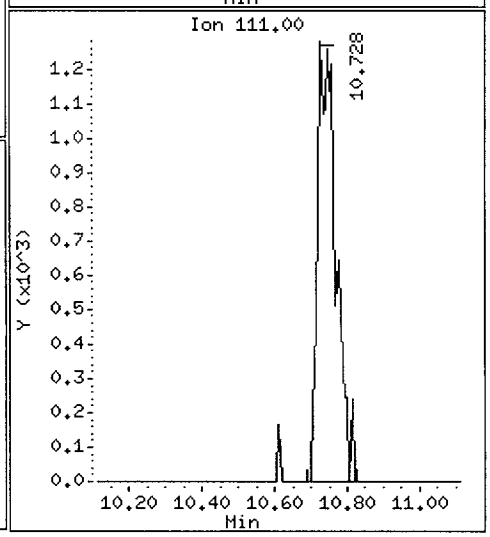












Data File: /chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

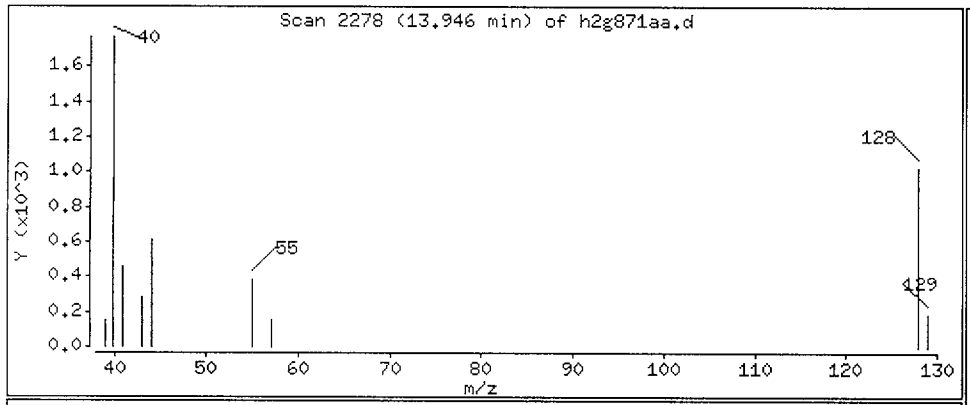
Operator: 22980

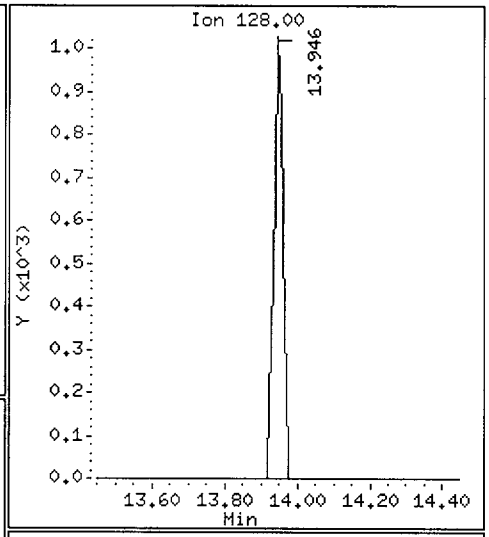
Column phase: J+W 624

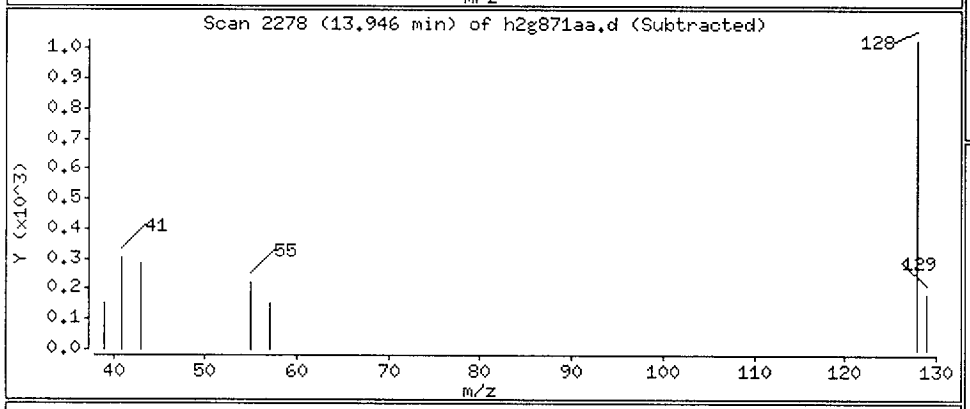
Column diameter: 0.18

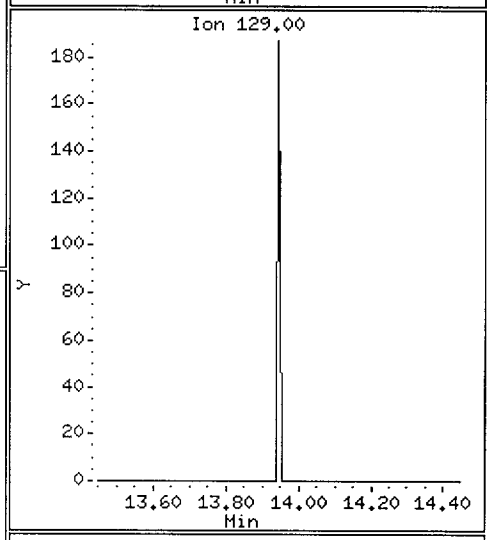
90 Napthalene

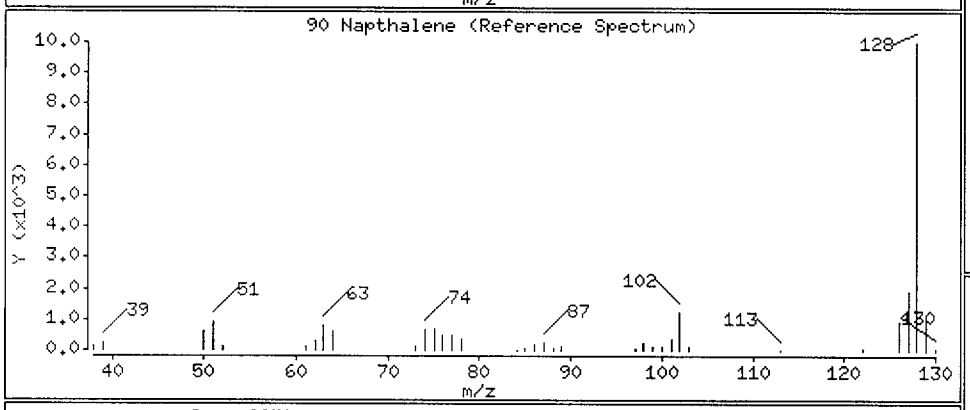
Concentration: 0.0034282 ug

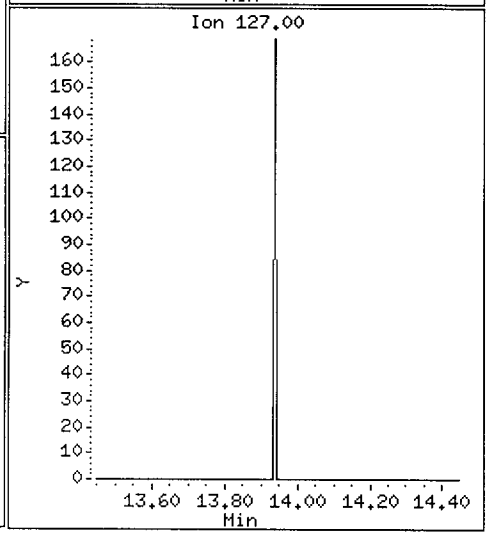


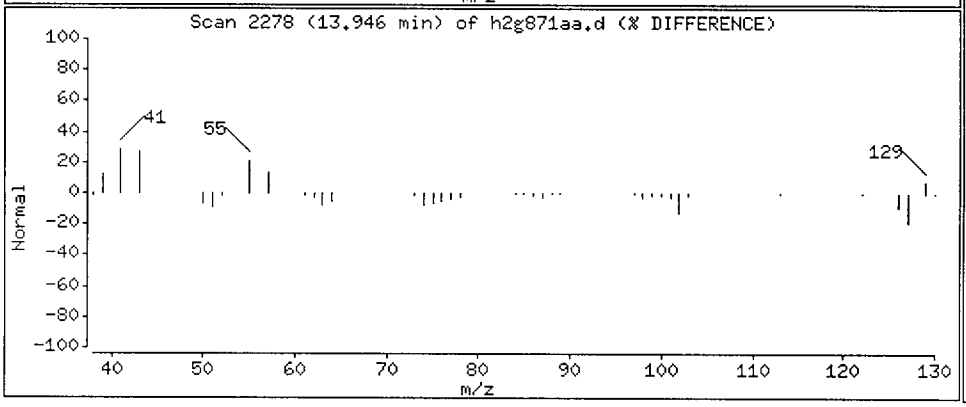












Data File: /var/chem/gcms/mx.i/X040706.b/h2g871aa.d
Report Date: 18-Apr-2006 14:54

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g871aa.d
Lab Smp Id: H2G871AA Client Smp ID: G-2910-R1-VOST PAIR
Inj Date : 07-APR-2006 12:06
Operator : 22980 Inst ID: mx.i
Smp Info : H2G871AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.740	680881	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl- Si				CAS #: 556-67-2			
9.238	1040787	15.2858870	0.38215	91	NIST02.1	115616	3
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-				CAS #: 13450-73-2			
12.444	293226	4.30656752 Si	0.10766	32	NIST02.1	98616	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

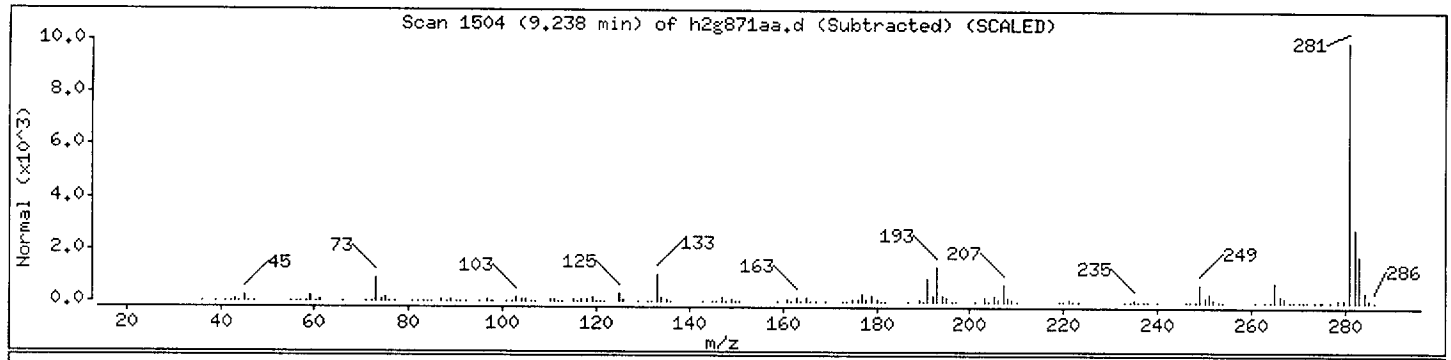
Sample Info: H2G871AA,1,0,,,

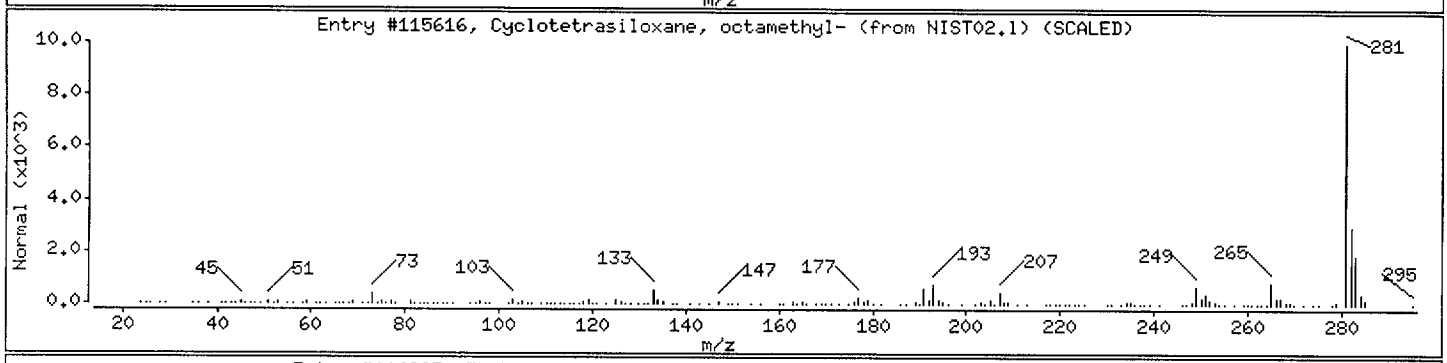
Operator: 22980

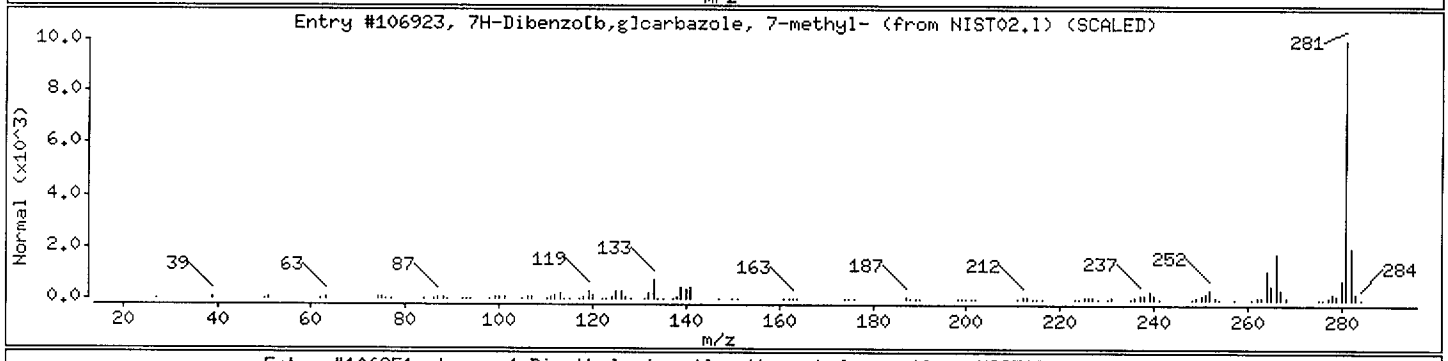
Column phase: J+W 624

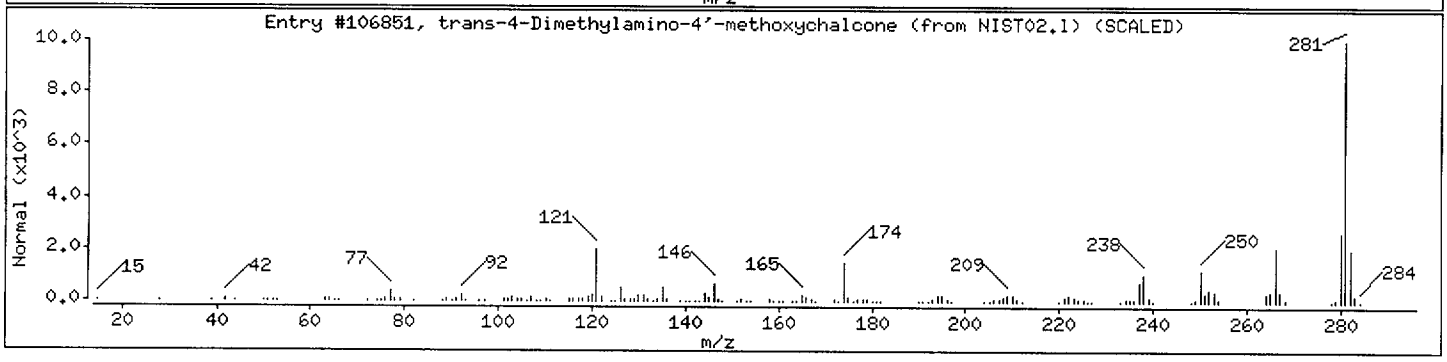
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115616	91	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	59	C21H15N	281
trans-4-Dimethylamino-4'-methoxychalcone	52119-37-6	NIST02.1	106851	50	C18H19NO2	281









Data File: /var/chem/gcms/mx.i/X040706.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

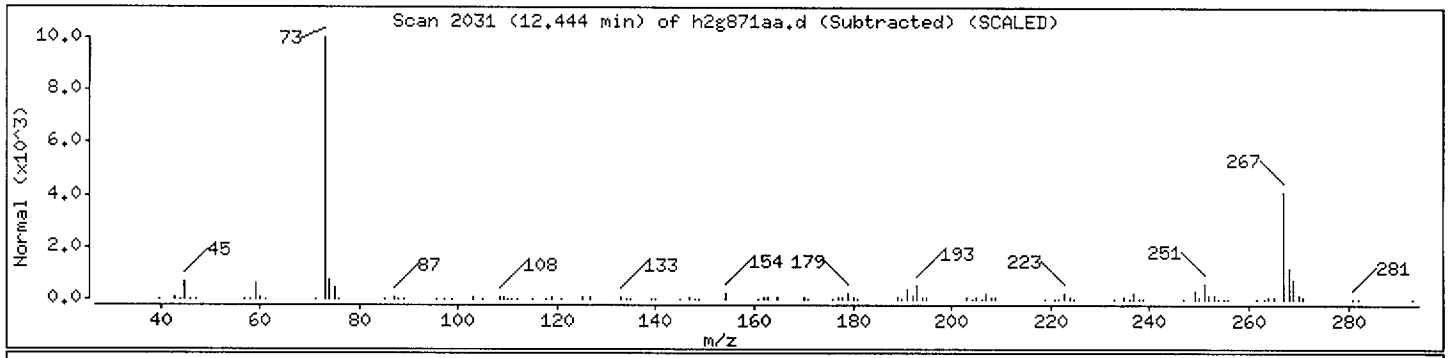
Sample Info: H2G871AA,1,0,,,

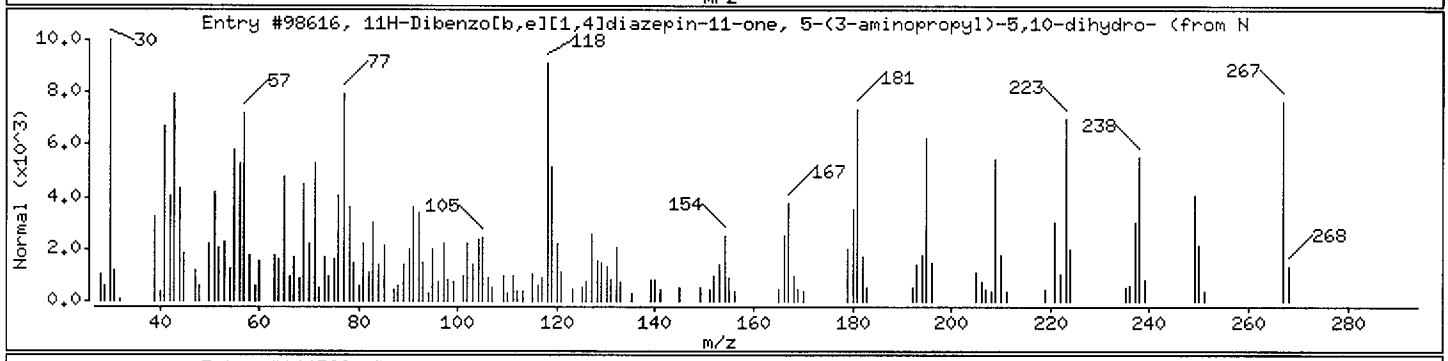
Operator: 22980

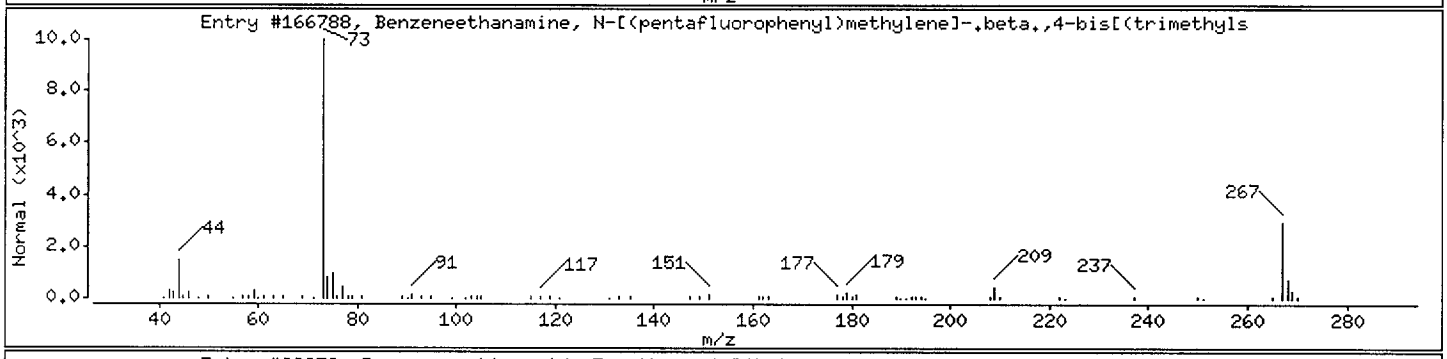
Column phase: J+W 624

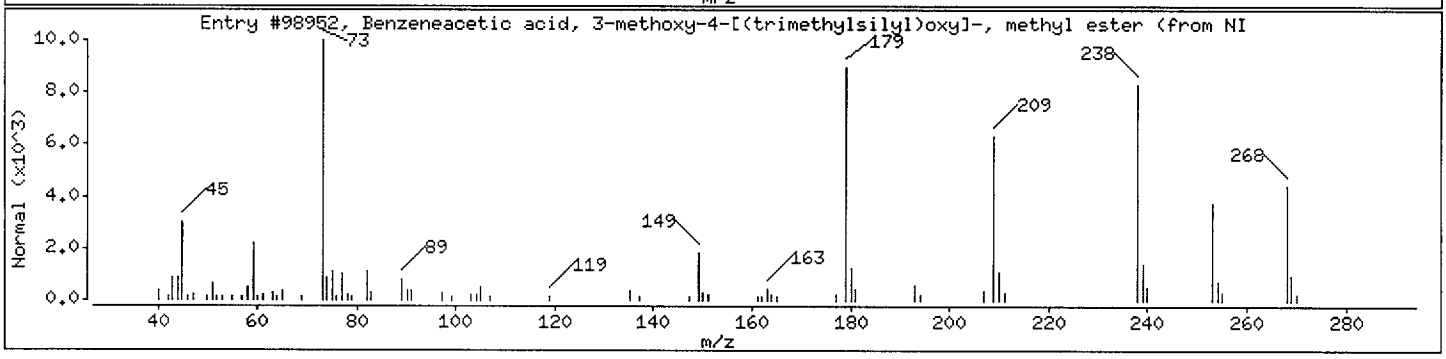
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.1	98616	32	C16H17N3O	267
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.1	166788	23	C21H26F5NO2Si	475
Benzeneacetic acid, 3-methoxy-4-[(trimet	15964-84-8	NIST02.1	98952	9	C13H20O4Si	268









STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...:	H6D030169-003	Work Order #...:	H2G872AA	Matrix.....:	AIR
Date Sampled...:	03/28/06	Date Received..:	04/02/06		
Prep Date.....:	04/07/06	Analysis Date..:	04/07/06		
Prep Batch #...:	6097054				
Dilution Factor:	1	Method.....:	SW846 VOST		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	5.2	0.010	ug	0.0013
Tetrachloroethene	4.2	0.010	ug	0.0021

Data File: /var/chem/gcms/mx.i/X050306.b/h2g871aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2g871aa.d
Lab Smp Id: H2G871AA Client Smp ID: G-2910-R1-VOST PAIR
Inj Date : 07-APR-2006 12:06
Operator : 22980 Inst ID: mx.i
Smp Info : H2G871AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 ✓ Cal File: tclp10.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

05/10/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1209720	10.0000	
* 2 Chlorobenzene-d5	119	7.589	7.582	(1.000)	248686	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.740	10.746	(1.000)	289189	10.0000 ✓	
57 Tetrachloroethene	164	6.829	6.816	(0.900)	5855342	166.917	4.1729(A)
62 Chlorobenzene (spcc)	112	7.620	7.607	(1.004)	17231878	209.458	5.2364(A) - slight saturation

MW 5-10-06

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/h2g871aa.d
Report Date: 10-May-2006 12:24

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g871aa.d
Lab Smp Id: H2G871AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16 ✓
Client Smp ID: G-2910-R1-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	✓ 574596	2298382	1209720	5.27
2 Chlorobenzene-d5	214194	107097	428388	248686	16.10
3 1,4 Dichlorobenze	242601	121300	485202	289189	19.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.59	0.09
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.05

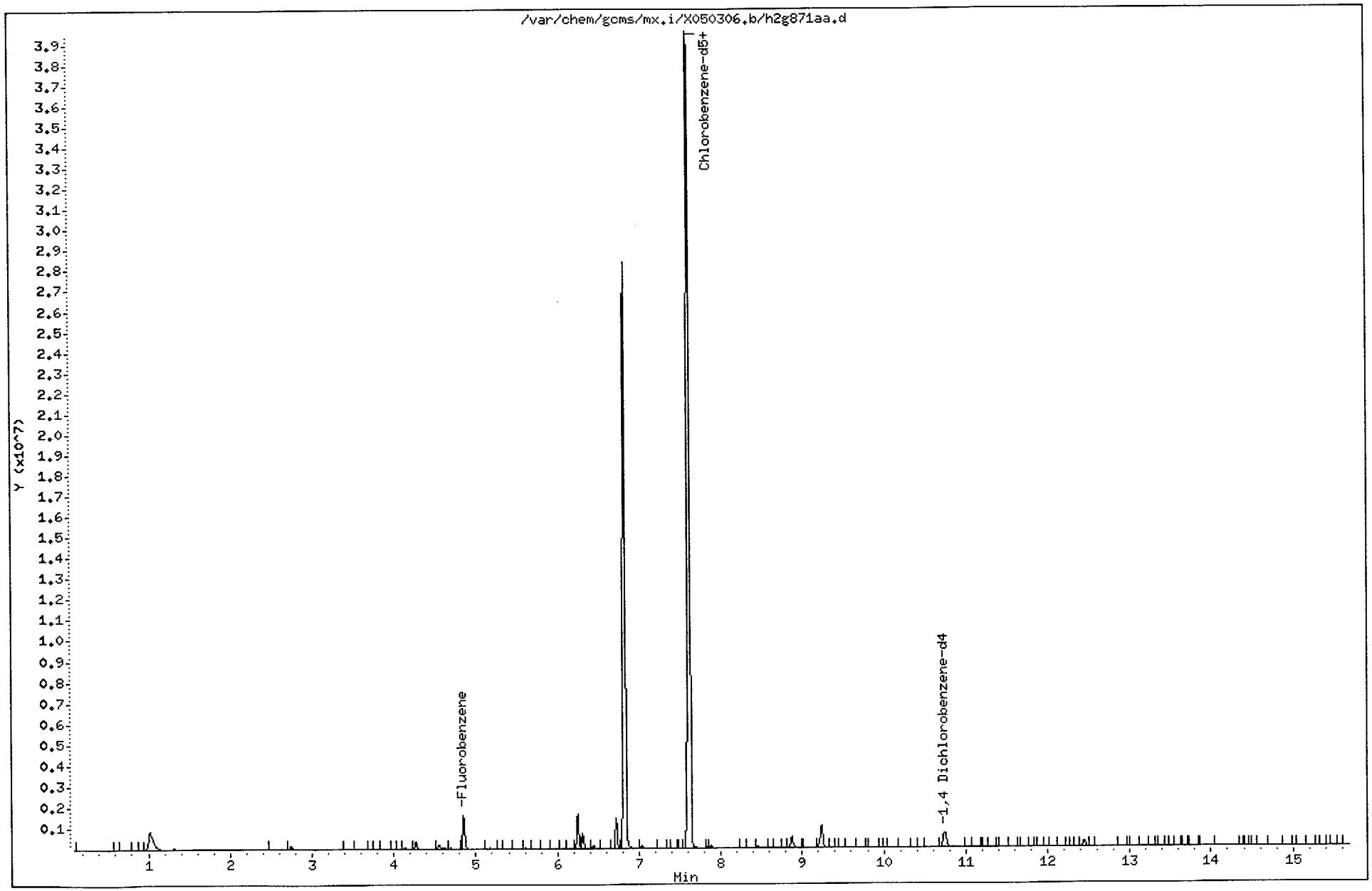
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/h2g871aa.d
Date : 07-APR-2006 12:06
Client ID: G-2910-R1-VOST PAIR
Sample Info: H2G871AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

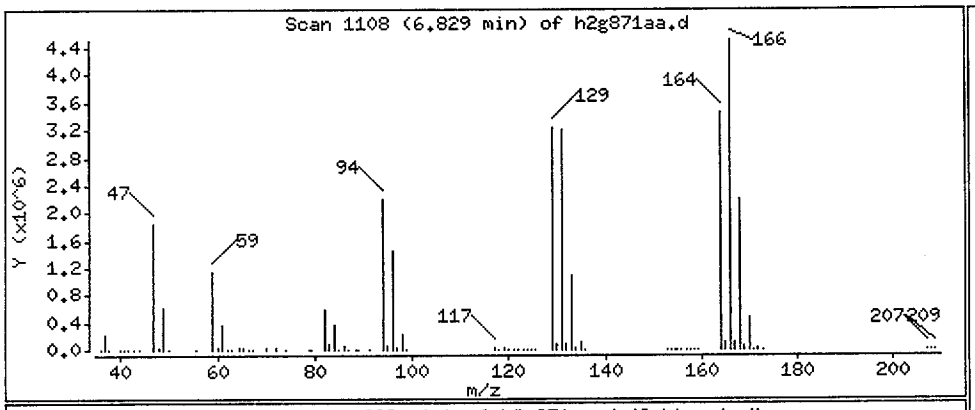
Operator: 22980

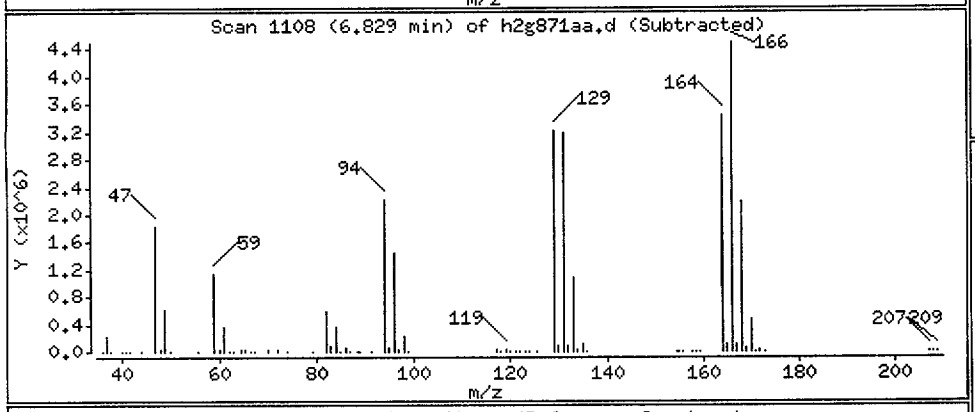
Column phase: J+W 624

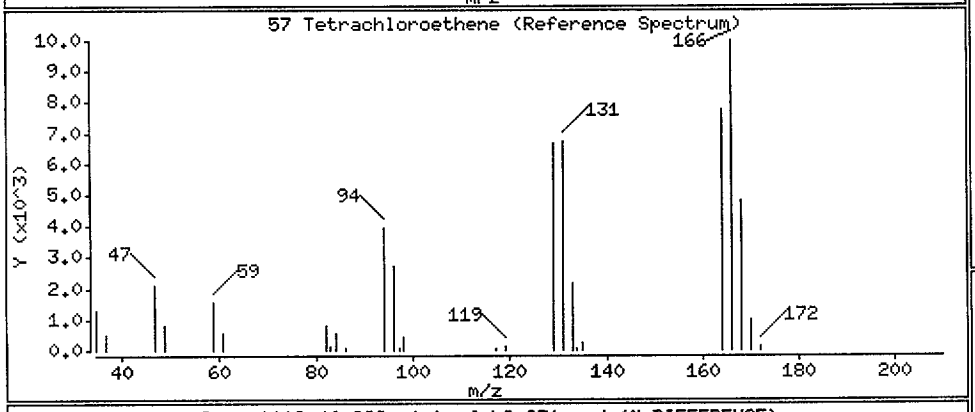
Column diameter: 0.18

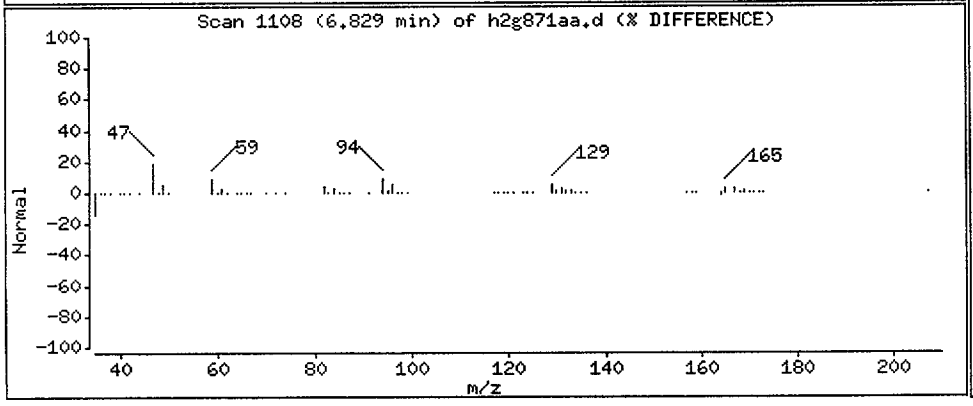
57 Tetrachloroethene

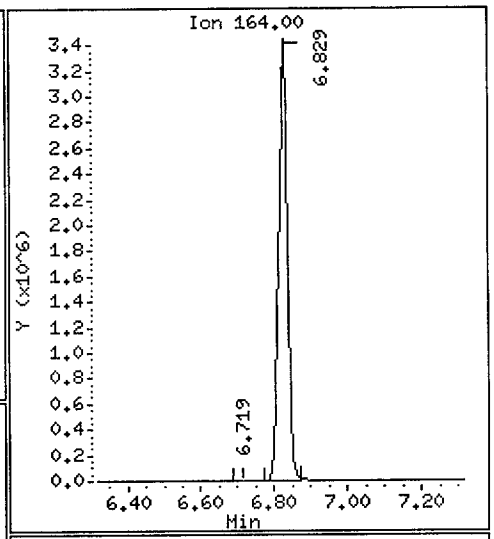
Concentration: 4.1729 ug

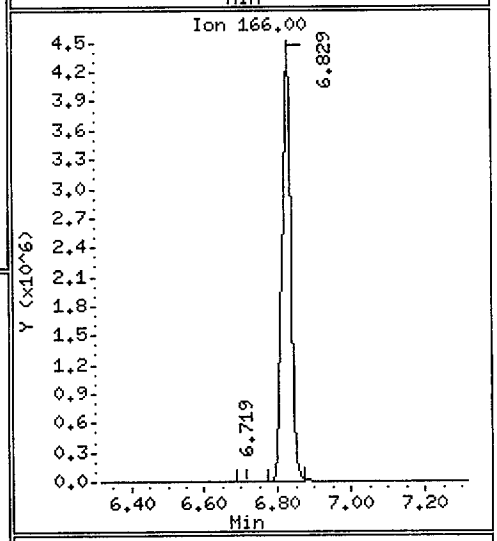


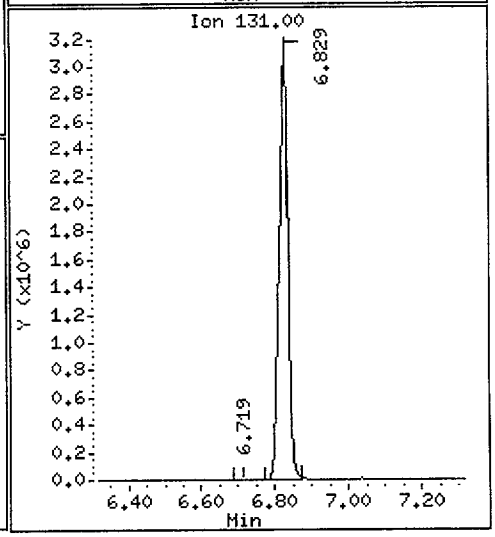












Data File: /var/chem/gcms/mx.i/X050306.b/h2g871aa.d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

Operator: 22980

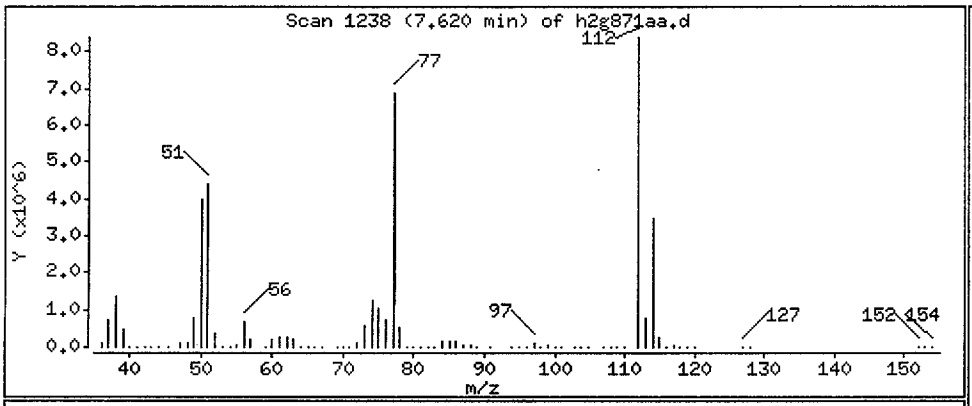
Column phase: J+W 624

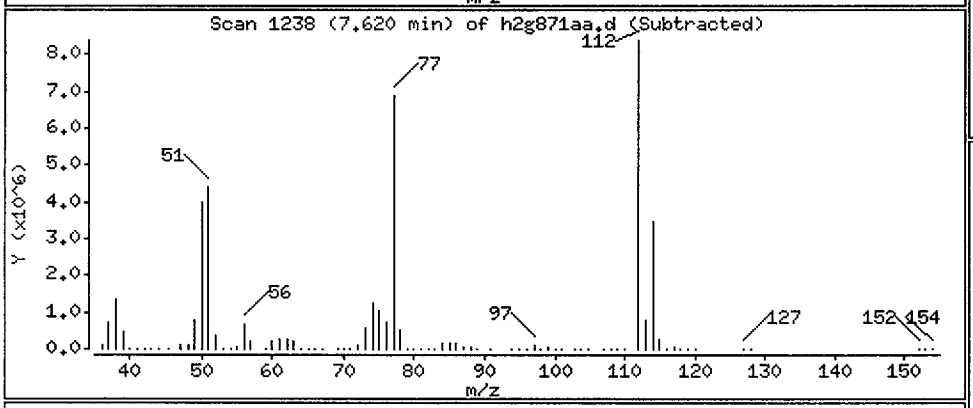
Column diameter: 0.18

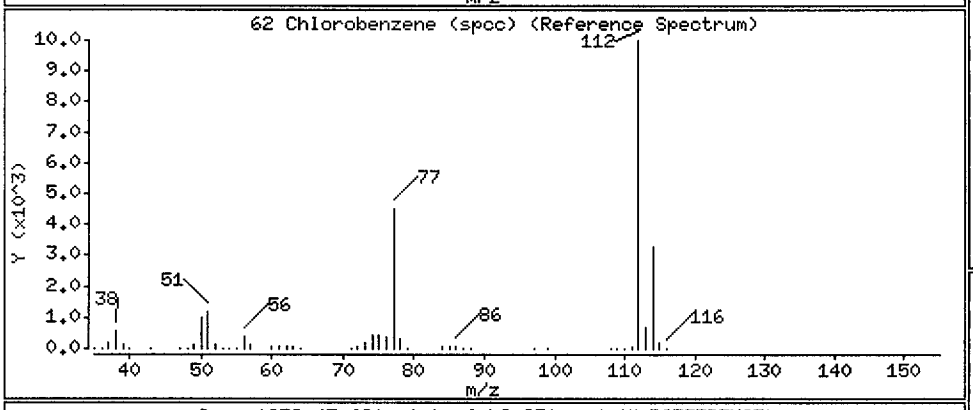
62 Chlorobenzene (spcc)

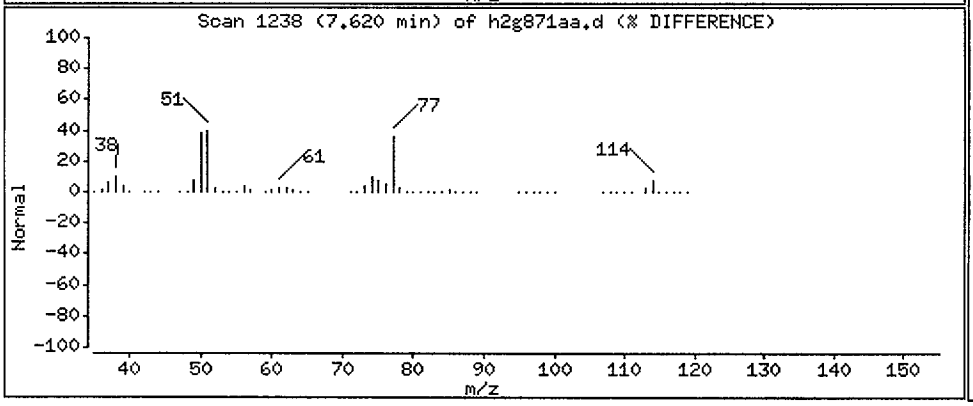
Concentration: 5.2364 ug

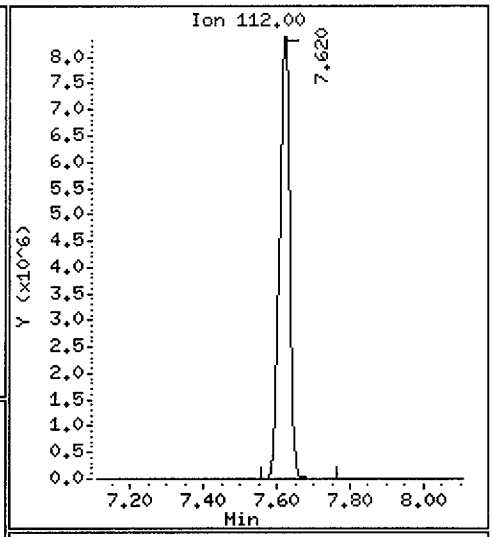
slight saturation
JWS 5/10/06

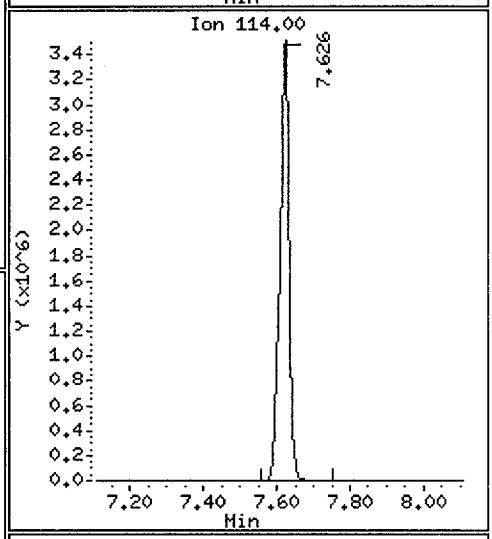


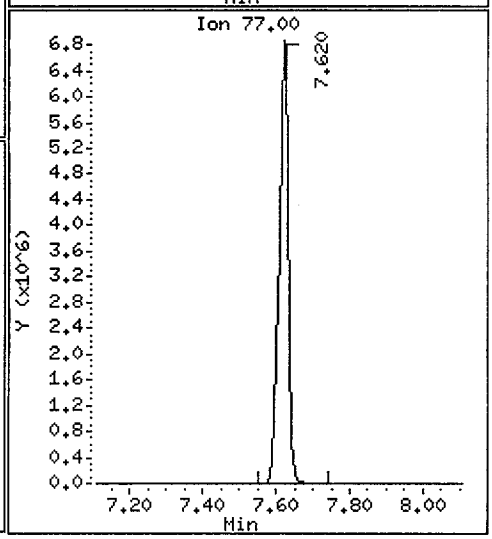












STL Knoxville - ACS

Client Sample ID: G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-004 **Work Order #...:** H2G891AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.098 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0047 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.020**	**0.010**	**ug**	**0.0016**
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.042 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0013 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0090 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.018**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0030 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.40**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0081 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-004 **Work Order #...:** H2G891AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.015 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.033**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0067 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.015**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(50 - 134)
1,2-Dichloroethane-d4	107	(50 - 134)
Toluene-d8	99	(57 - 127)
Bromofluorobenzene	96	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-004 **Work Order #:** H2G891AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Unknown		0.068 NJ M	9.3166	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d
Report Date: 07-Apr-2006 18:11

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g891aa.d
Lab Smp Id: H2G891AA Client Smp ID: G-2911-R1-VOST PAIR
Inj Date : 07-APR-2006 17:54
Operator : 22980 Inst ID: mz.i
Smp Info : H2G891AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.679	5.676	(1.000)	605756	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	160845	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.492	(1.000)	224634	10.0000	
$ 4 Dibromofluoromethane	113	4.833	4.831	(0.851)	107246	11.0490	0.27622
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.923)	89419	10.6533	0.26633
$ 6 Toluene-d8	98	7.467	7.465	(0.835)	702240	9.93654	0.24841
$ 7 4-Bromofluorobenzene	95	10.132	10.129	(0.881)	217443	9.59825	0.23996
10 Dichlorodifluoromethane	85	1.013	1.016	(0.178)	4802	0.32480	0.0081201
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	567445	16.1627	0.40407
15 Bromomethane	94	1.420	1.418	(0.250)	5491	1.68400	0.042100
16 Chloroethane	64	1.420	1.485	(0.250)	22367	1.97991	0.049498
22 Acetone	43	2.126	2.123	(0.374)	2389	3.90705	0.097676
23 *Iodomethane	142	2.193	2.184	(0.386)	695	0.56625	0.014156
24 Carbon Disulfide	76	2.242	2.239	(0.395)	2507	0.05396	0.0013489
27 Methylene Chloride	84	2.509	2.513	(0.442)	6262	0.61814	0.015453
40 Chloroform (ccc)	83	4.620	4.618	(0.814)	2668	0.12191	0.0030476

Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d
Report Date: 07-Apr-2006 18:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
42 Carbon Tetrachloride	117	5.040	5.043	(0.888)	352	0.36129	0.0090323
44 Benzene	78	5.302	5.305	(0.934)	7173	0.12009	0.0030022 - see reprint for (M)
45 1,2-Dichloroethane	62	5.679	5.335	(1.000)	8520	0.67355	0.016839
46 Trichloroethene	130	6.117	6.114	(1.077)	10326	0.61454	0.015363
50 Bromodichloromethane	83	6.695	6.692	(1.179)	617	0.78863	0.019716
53 4-Methyl-2-pentanone	43	7.467	7.386	(1.315)	5791	1.09480	~~0.027370~~
54 Toluene (ccc)	91	7.528	7.532	(0.842)	24455	0.26716	0.0066790
55 trans-1,3-Dichloropropene	75	7.771	7.793	(0.869)	112	0.63297	~~0.015824~~
57 1,1,2-Trichloroethane	97	8.106	7.964	(0.907)	836	0.11255	~~0.0028138~~
58 Tetrachloroethene	164	8.100	8.097	(0.906)	25257	1.33030	0.033258
61 Chlorodibromomethane	129	8.100	8.353	(0.906)	21889	3.35545	~~0.083886~~
63 Chlorobenzene (spcc)	112	8.964	8.961	(1.003)	37790	0.73968	0.018492
65 Ethylbenzene (ccc)	106	9.219	9.101	(1.031)	2223	0.06754	~~0.0016886~~
67 o-Xylene	106	9.219	9.612	(1.031)	2223	0.06326	~~0.0015814~~
68 Styrene	104	9.633	9.630	(1.078)	3131	0.06346	0.0015864
69 Bromoform (spcc)	173	9.797	9.782	(1.096)	139	0.85572	~~0.021393~~
83 1,3-Dichlorobenzene	146	11.519	11.395	(1.002)	3726	0.09476	~~0.0023691~~
85 1,4-Dichlorobenzene	146	11.519	11.528	(1.002)	3726	0.10188	0.0025469

JW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g891aa.d
Report Date: 14-Apr-2006 15:31

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g891aa.d
Lab Smp Id: H2G891AA Client Smp ID: G-2911-R1-VOST PAIR
Inj Date : 07-APR-2006 17:54
Operator : 22980 Inst ID: mz.i
Smp Info : H2G891AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:02 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.679	5.676	(1.000)	605756	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	160845	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.492	(1.000)	224634	10.0000	
$ 4 Dibromofluoromethane	113	4.833	4.831	(0.851)	107246	11.0490	0.27622
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.923)	89419	10.6533	0.26633
$ 6 Toluene-d8	98	7.467	7.465	(0.835)	702240	9.93654	0.24841
$ 7 4-Bromofluorobenzene	95	10.132	10.129	(0.881)	217443	9.59826	0.23996
10 Dichlorodifluoromethane	85	1.013	1.016	(0.178)	4802	0.32476	0.0081189
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	567445	16.1627	0.40407
15 Bromomethane	94	1.420	1.418	(0.250)	5491	1.68399	0.042100
22 Acetone	43	2.126	2.123	(0.374)	2389	3.90697	0.097674
23 *Iodomethane	142	2.193	2.184	(0.386)	695	0.56625	0.014156
24 Carbon Disulfide	76	2.242	2.239	(0.395)	2507	0.05395	0.0013486
27 Methylene Chloride	84	2.509	2.513	(0.442)	6262	0.61811	0.015453
40 Chloroform (ccc)	83	4.620	4.618	(0.814)	2668	0.12190	0.0030475
42 Carbon Tetrachloride	117	5.040	5.043	(0.888)	352	0.36126	0.0090314

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g891aa.d
Report Date: 14-Apr-2006 15:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
44 Benzene	78	5.302	5.305	(0.934)	11338	0.18980	0.0047451(M)
46 Trichloroethene	130	6.117	6.114	(1.077)	10326	0.61450	0.015362
50 Bromodichloromethane	83	6.695	6.692	(1.179)	617	0.78859	0.019715
54 Toluene (ccc)	91	7.528	7.532	(0.842)	24455	0.26716	0.0066789
58 Tetrachloroethene	164	8.100	8.097	(0.906)	25257	1.33026	0.033256
63 Chlorobenzene (spcc)	112	8.964	8.961	(1.003)	37790	0.73966	0.018492
68 Styrene	104	9.633	9.630	(1.078)	3131	0.06344	0.0015860
85 1,4-Dichlorobenzene	146	11.519	11.528	(1.002)	3726	0.10187	0.0025468

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d
Report Date: 07-Apr-2006 18:11

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g891aa.d
Lab Smp Id: H2G891AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-2911-R1-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	605756	-36.41
2 Chlorobenzene-d5	164101	82050	328202	160845	-1.98
3 1,4 Dichlorobenze	204390	102195	408780	224634	9.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.68	0.05
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.03
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d
Report Date: 07-Apr-2006 18:11

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G891AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2911-R1-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

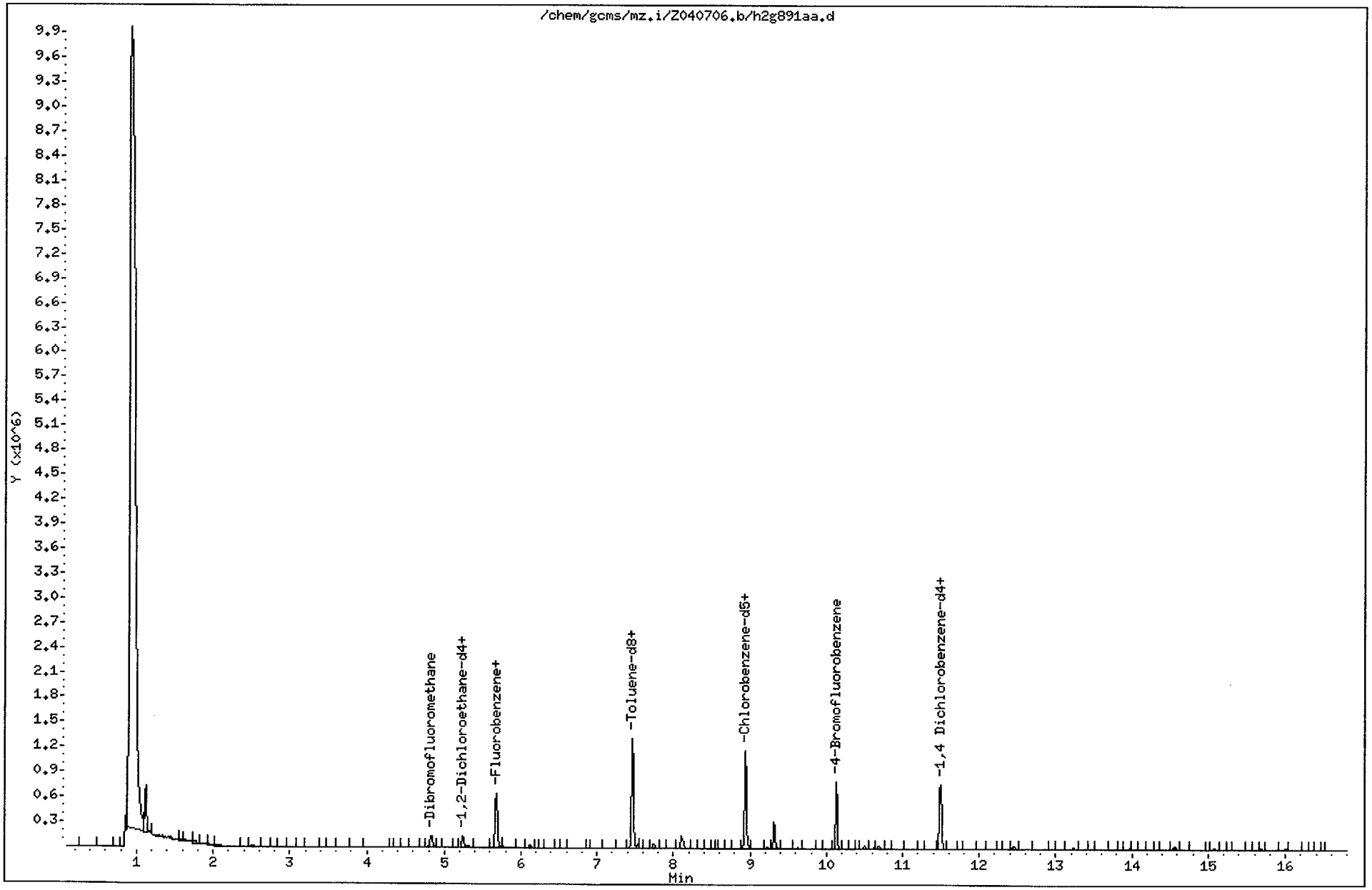
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.27622	110.49	50-150
$ 5 1,2-Dichloroethane	0.25000	0.26633	106.53	50-150
$ 6 Toluene-d8	0.25000	0.24841	99.37	50-150
$ 7 4-Bromofluorobenze	0.25000	0.23996	95.98	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d
Date : 07-APR-2006 17:54
Client ID: G-2911-R1-VOST PAIR
Sample Info: H2G891AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

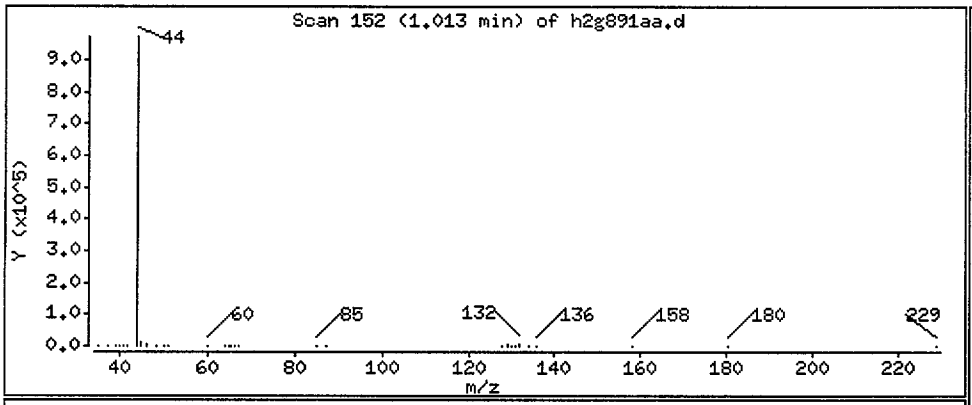
Operator: 22980

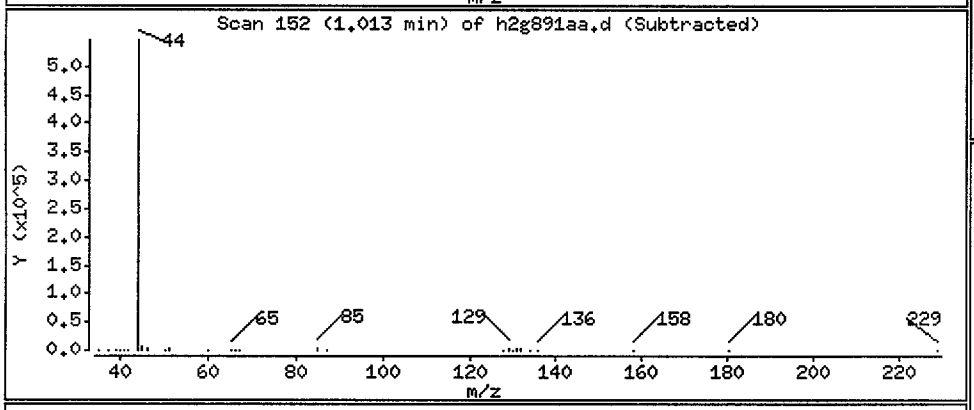
Column phase: J+W 624

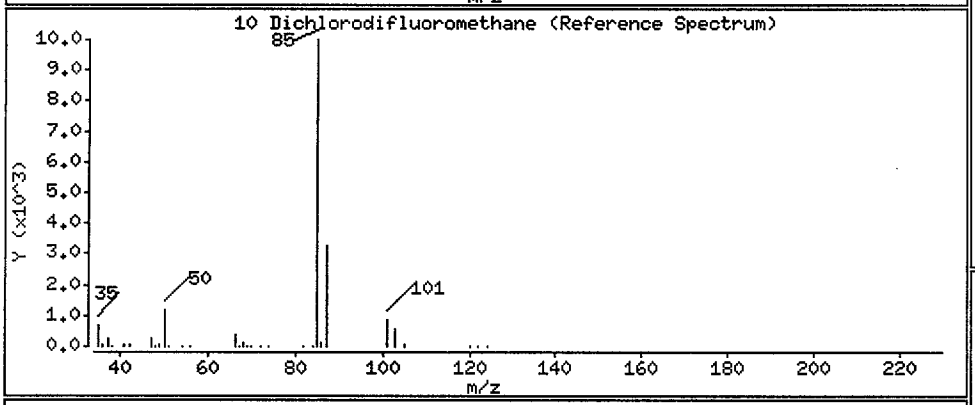
Column diameter: 0.18

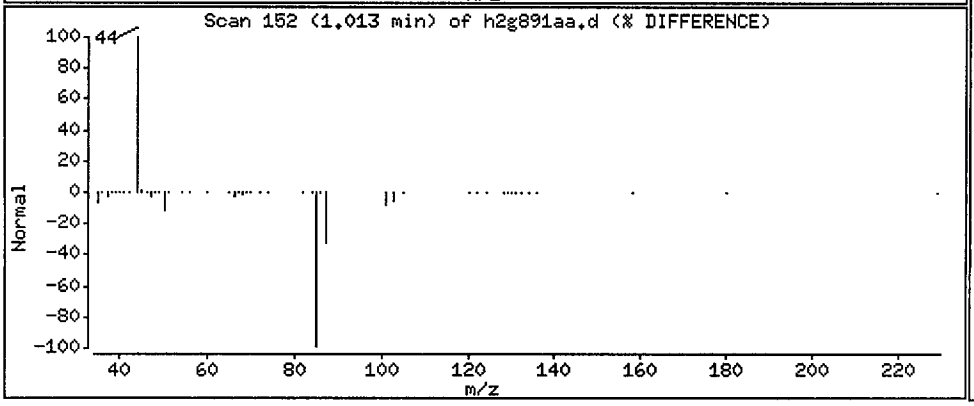
10 Dichlorodifluoromethane

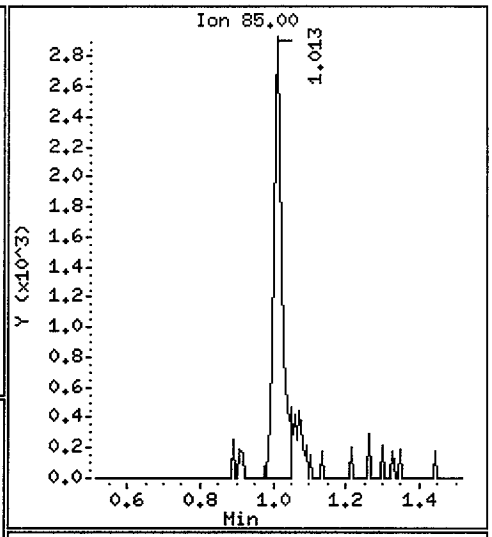
Concentration: 0.0081201 ug

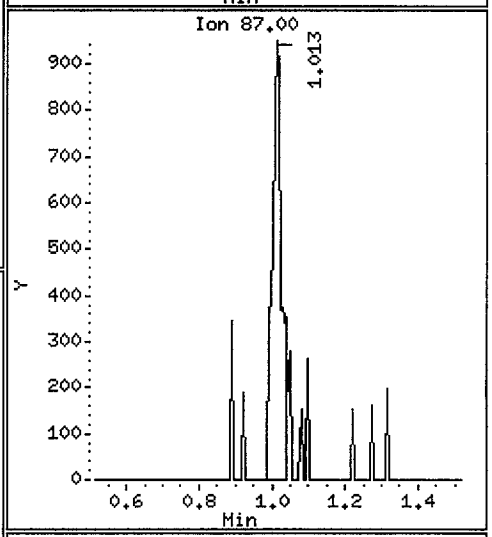


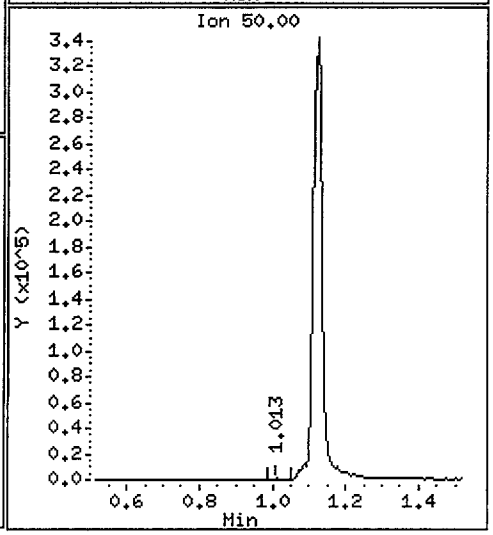












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

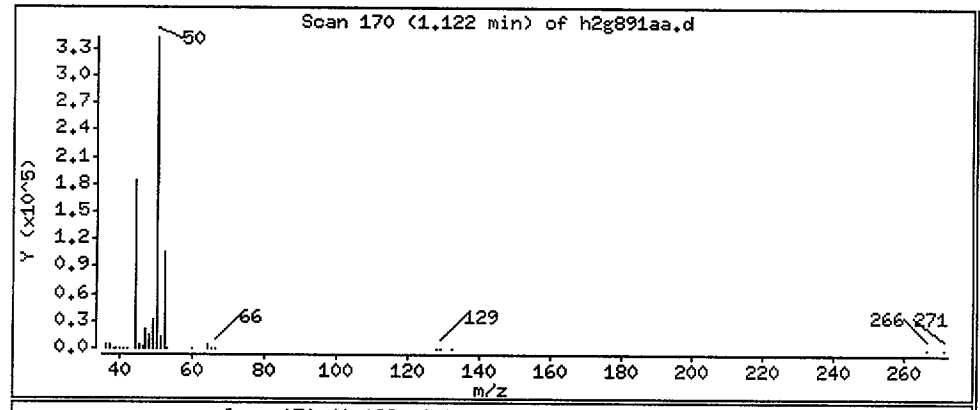
Operator: 22980

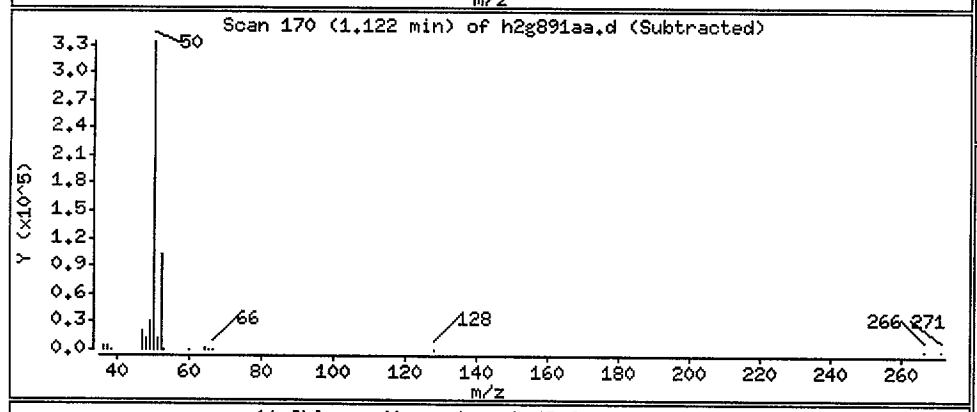
Column phase: J+W 624

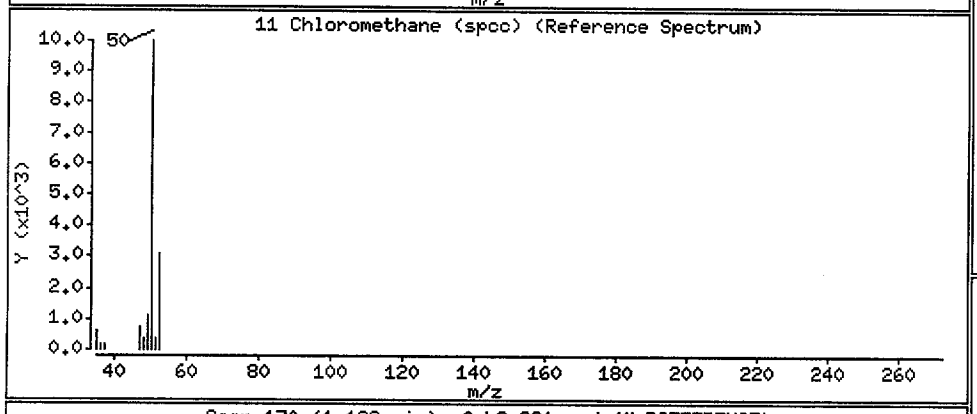
Column diameter: 0.18

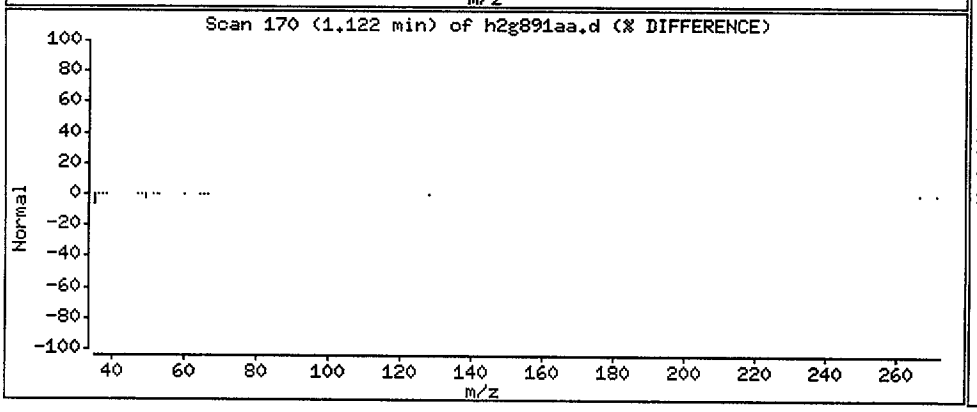
11 Chloromethane (spcc)

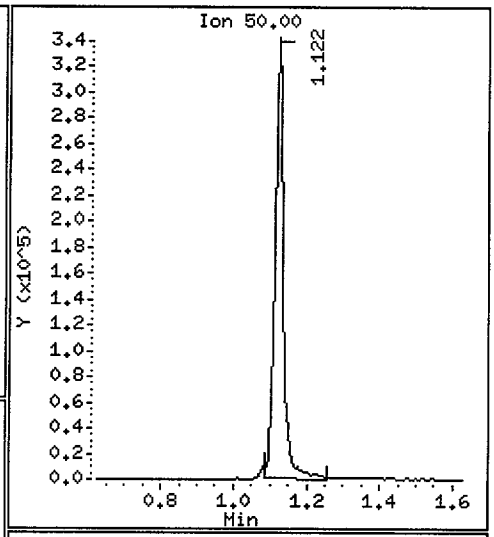
Concentration: 0.40407 ug

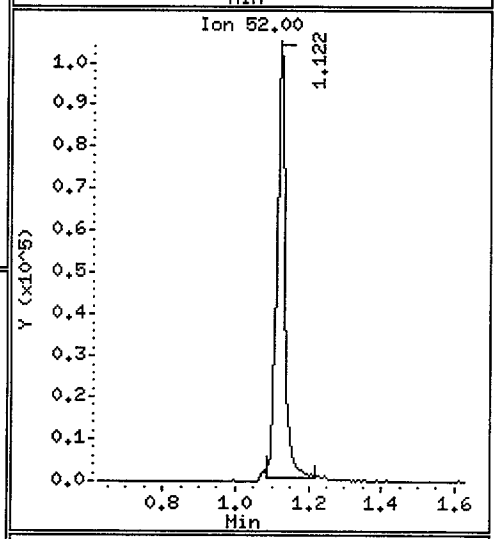


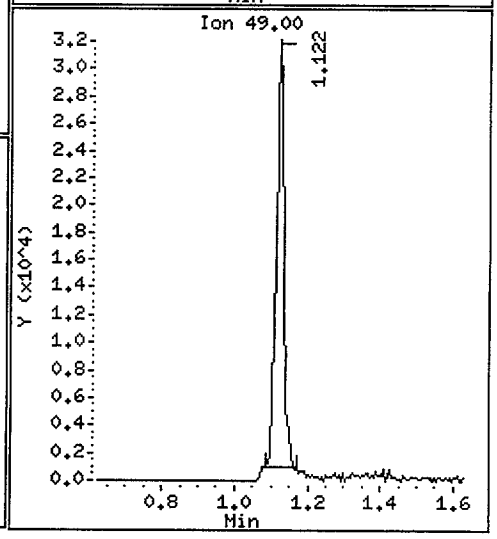












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

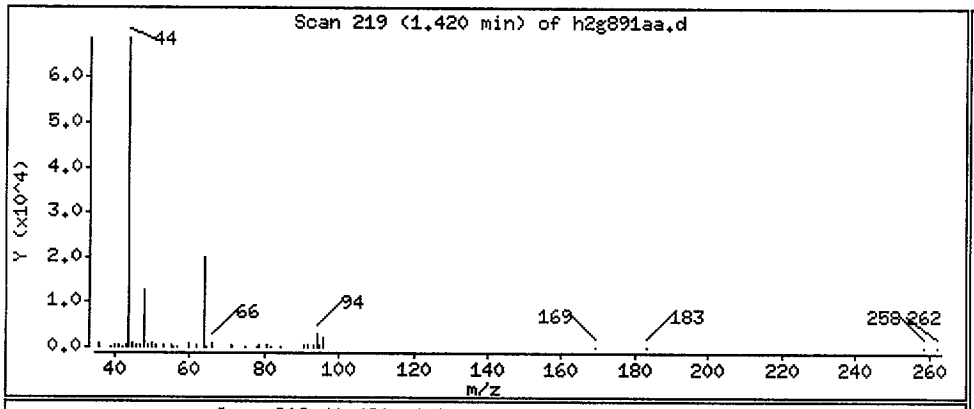
Operator: 22980

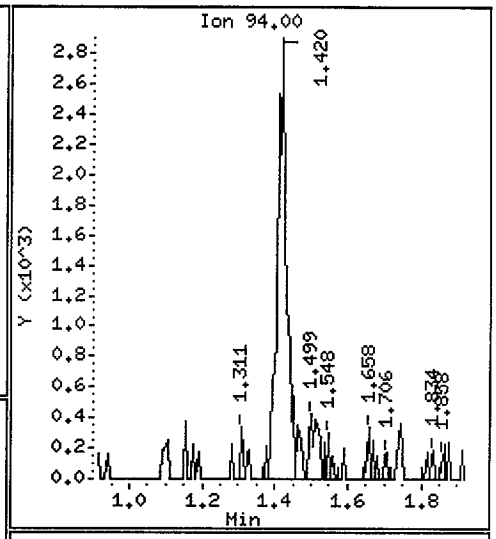
Column phase: J+W 624

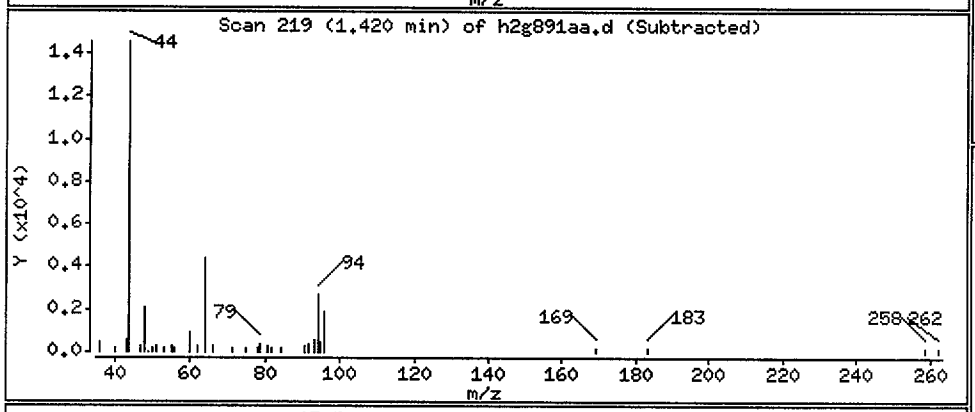
Column diameter: 0.18

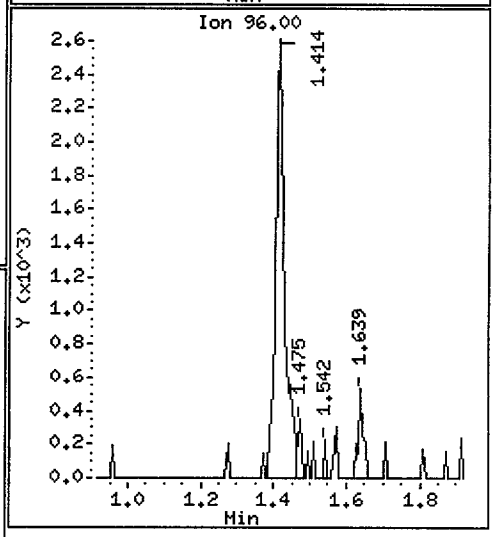
15 Bromomethane

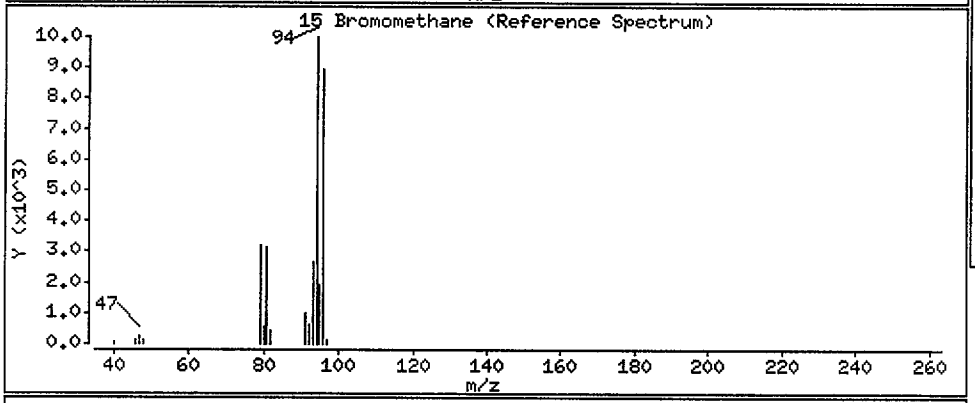
Concentration: 0.042100 ug

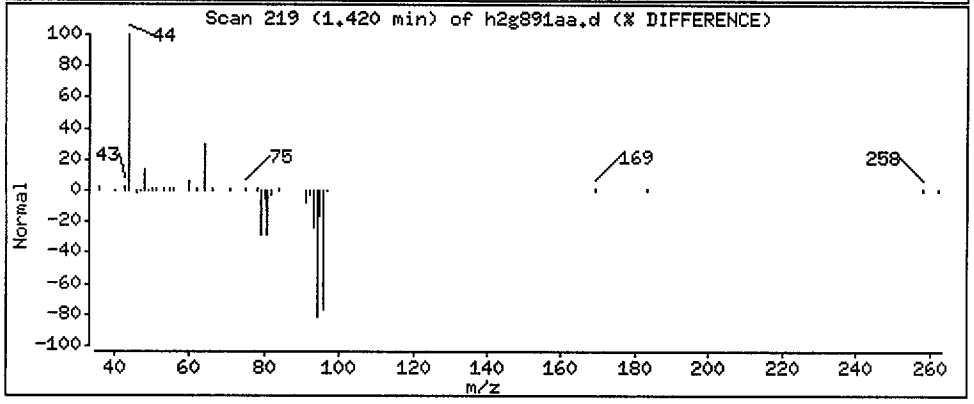












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

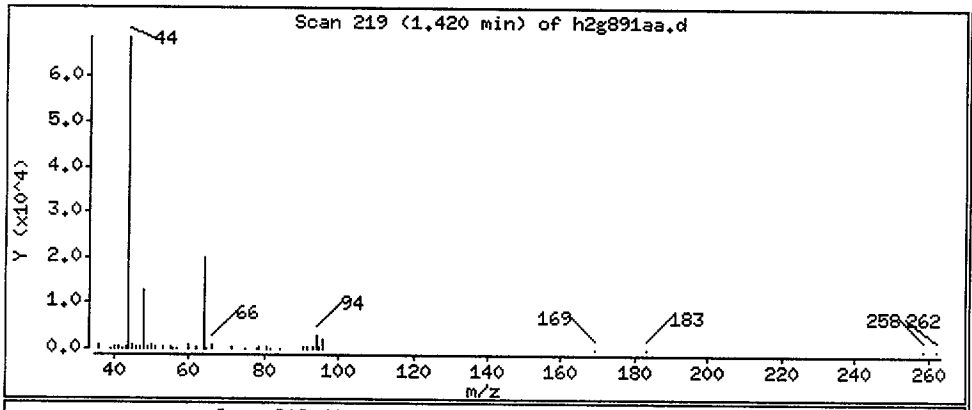
Operator: 22980

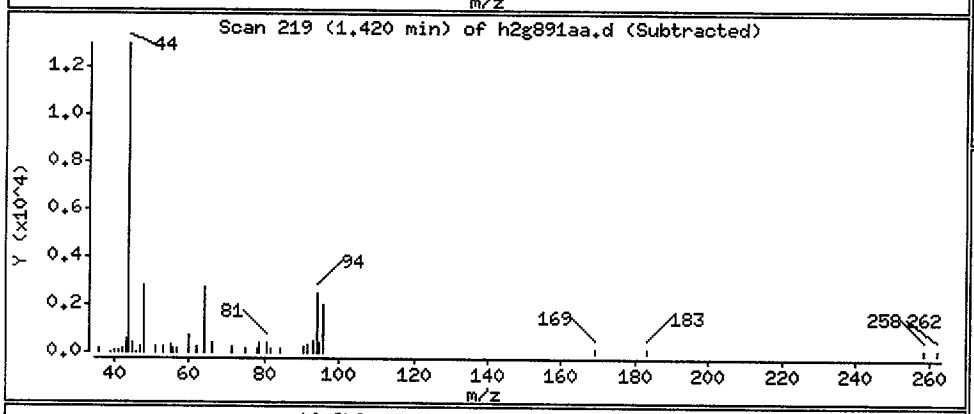
Column phase: J+W 624

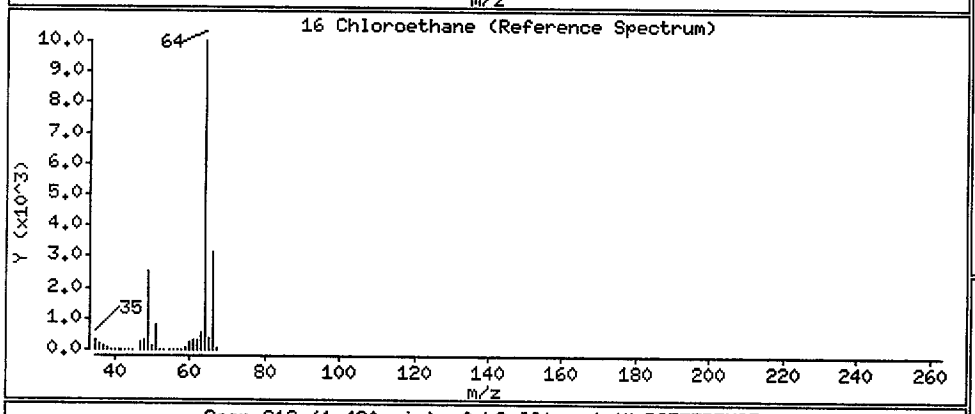
Column diameter: 0.18

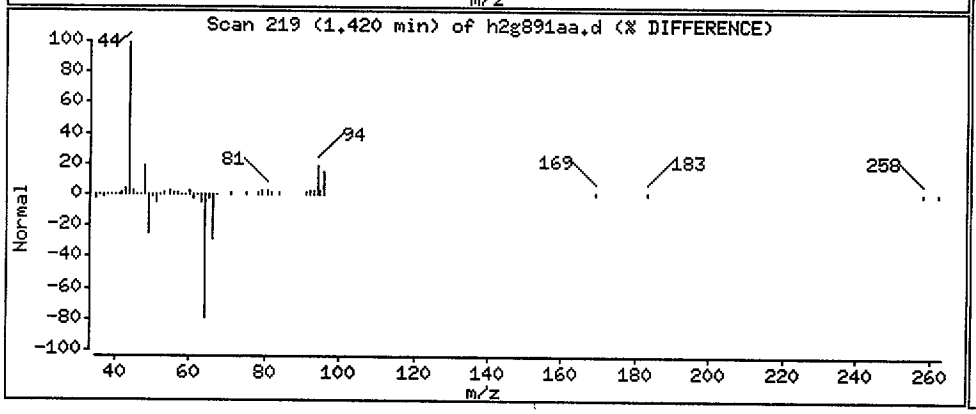
16 Chloroethane

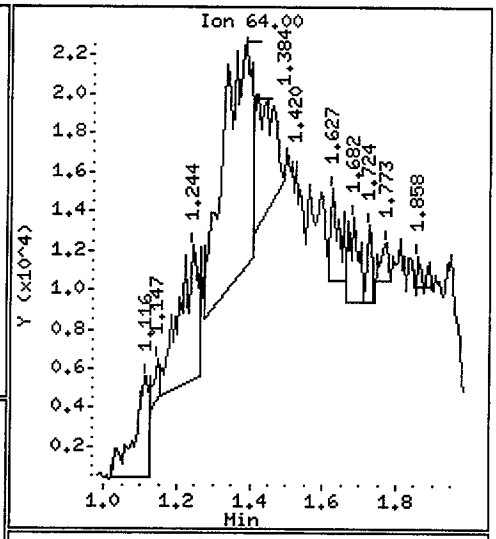
Concentration: 0.049498 ug

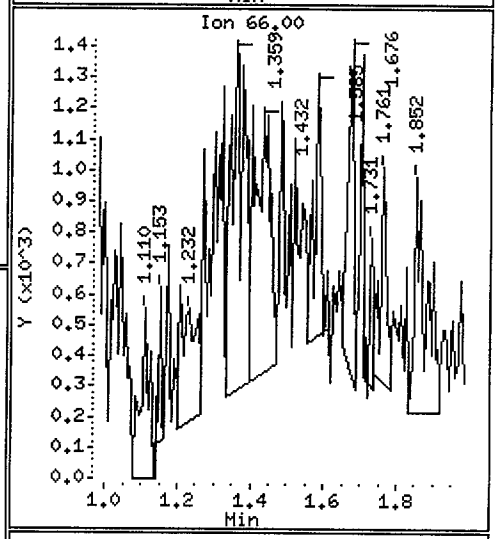


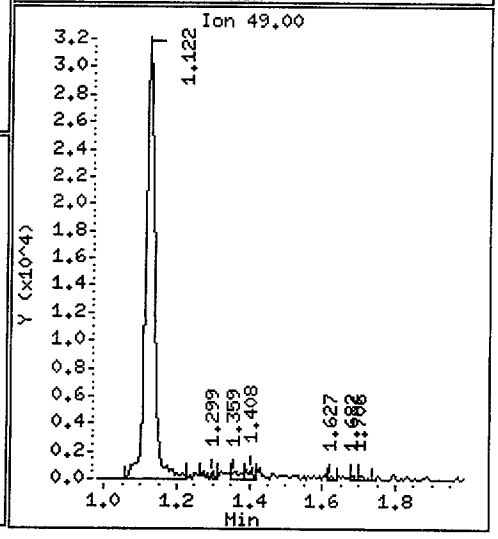












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

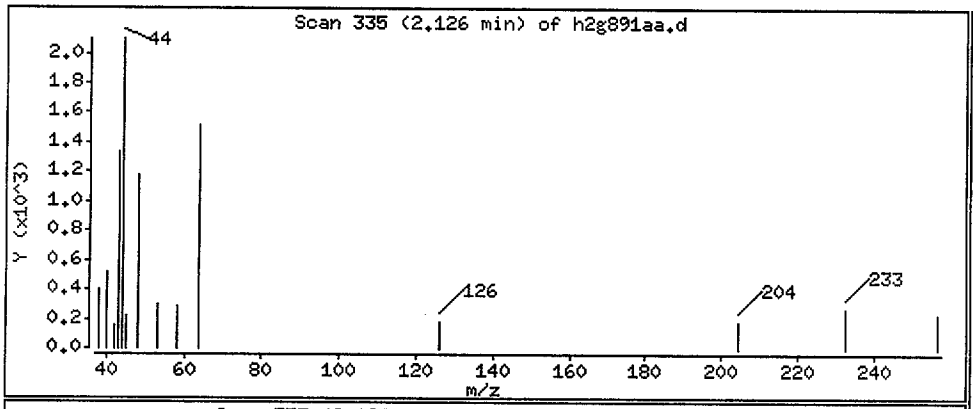
Operator: 22980

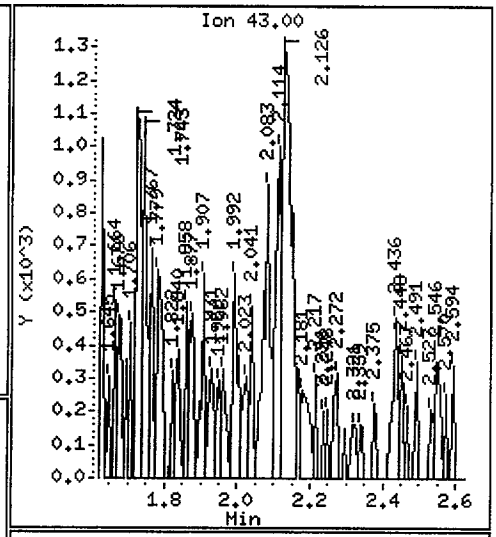
Column phase: J+W 624

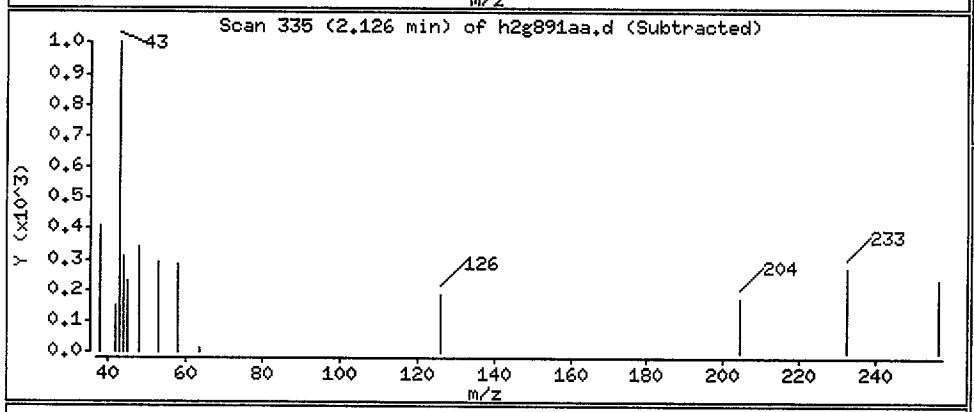
Column diameter: 0.18

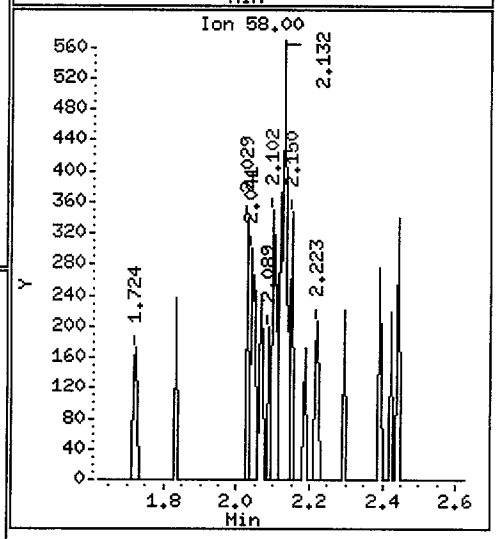
22 Acetone

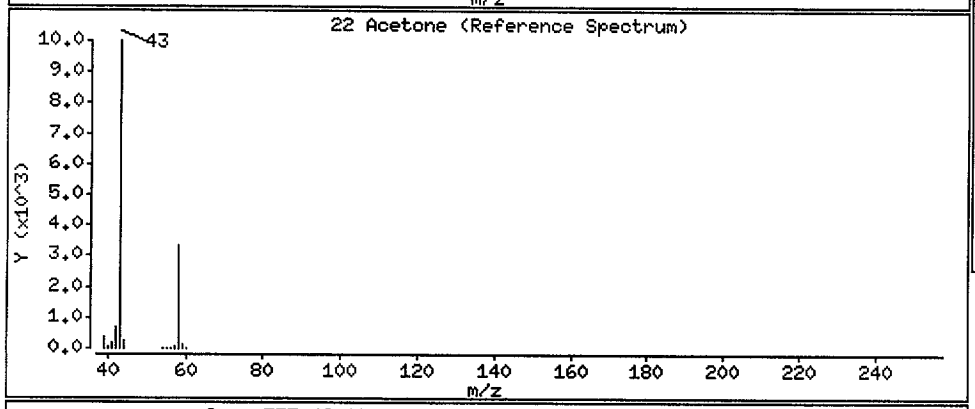
Concentration: 0.097676 ug

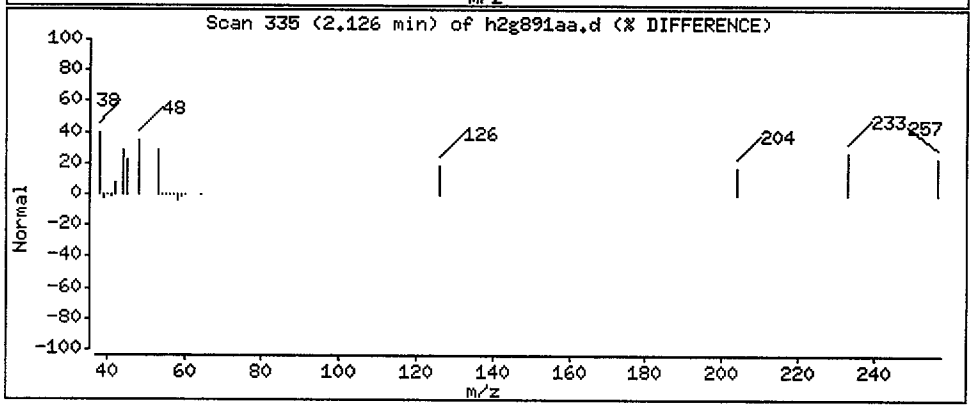












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

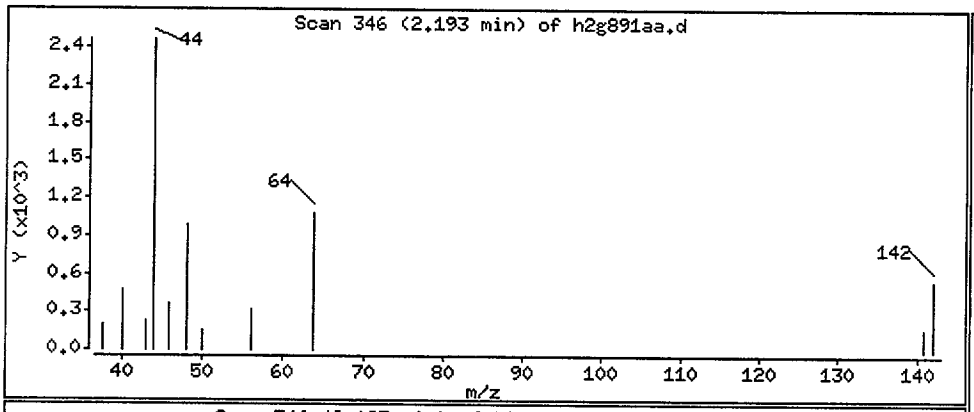
Operator: 22980

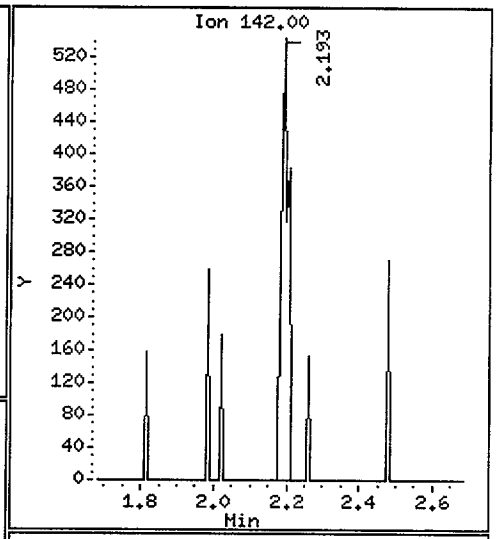
Column phase: J+W 624

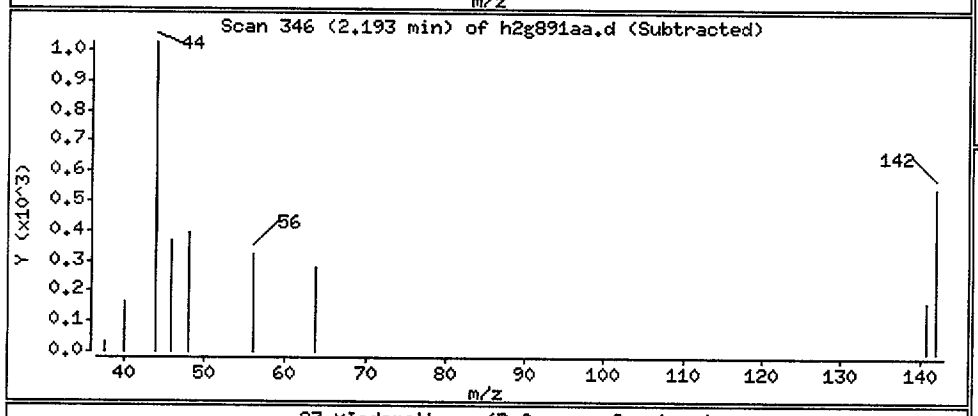
Column diameter: 0.18

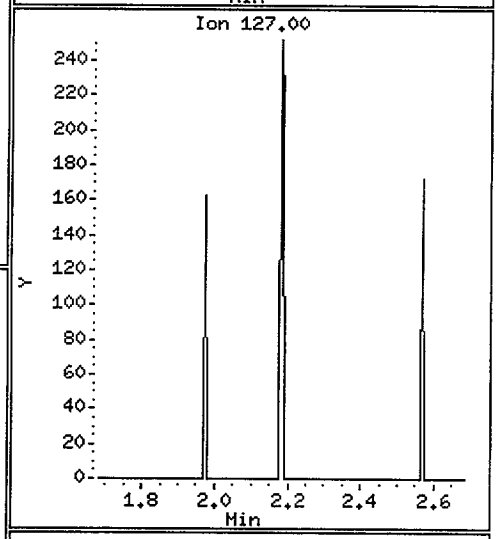
23 *Iodomethane

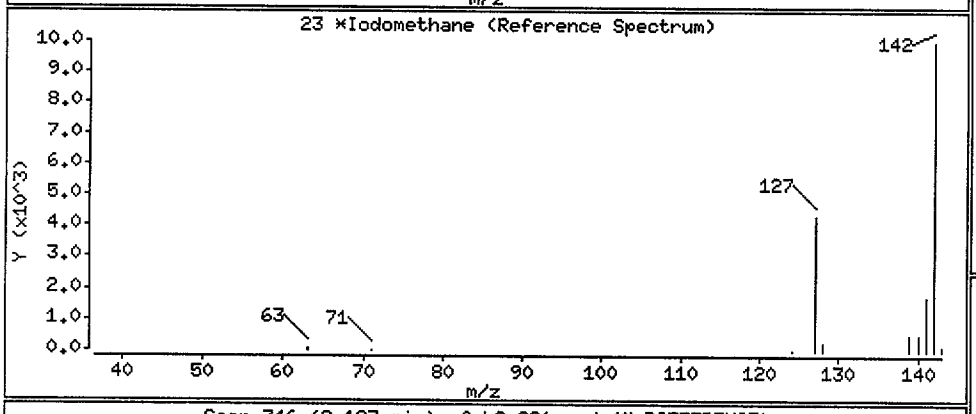
Concentration: 0.014156 ug

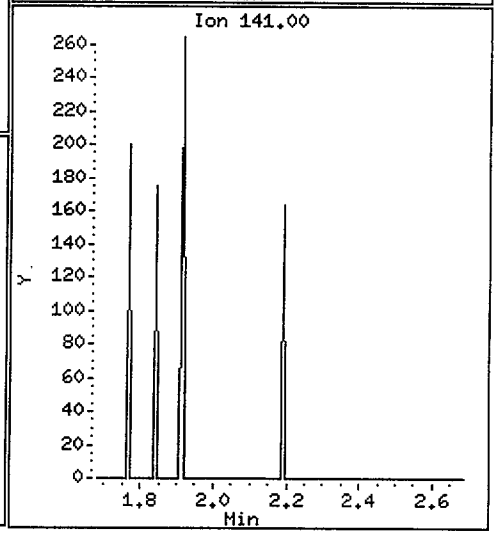


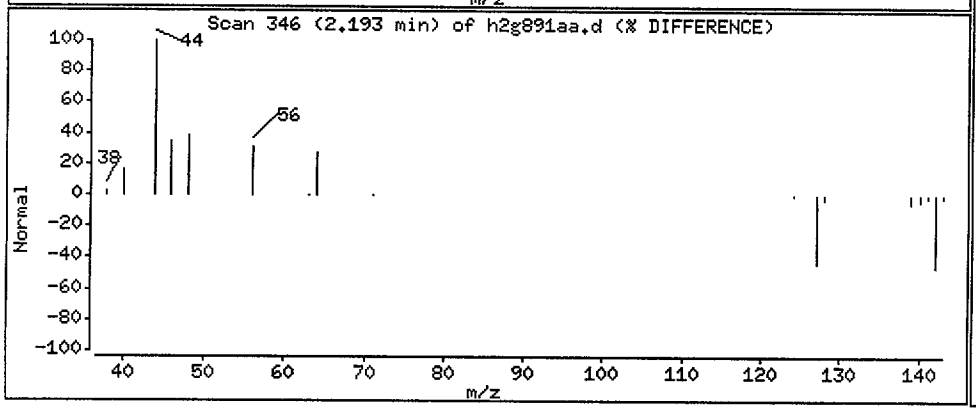












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

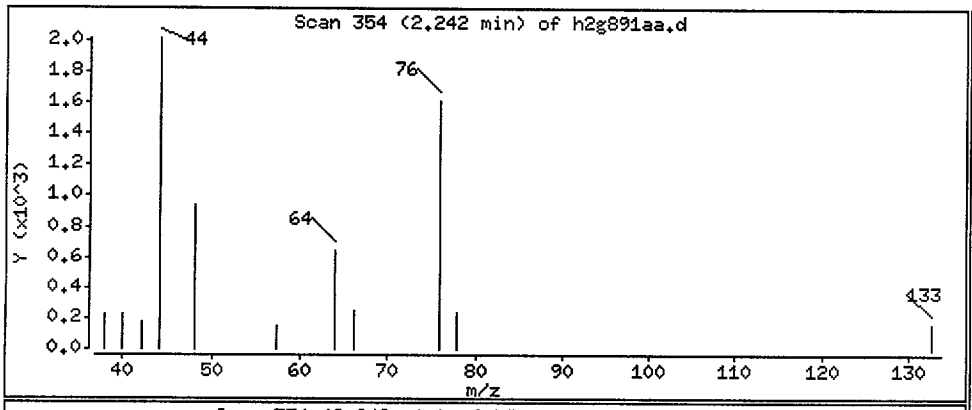
Operator: 22980

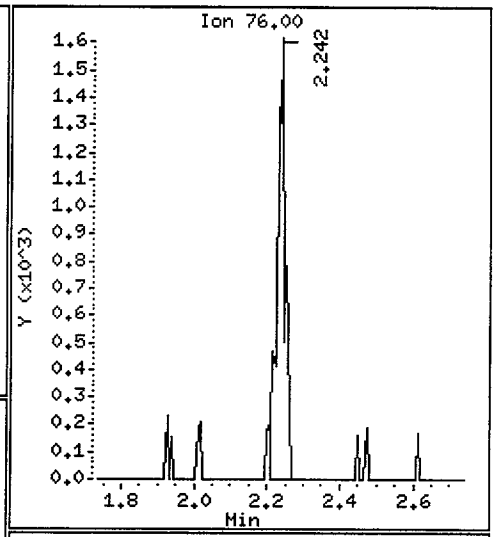
Column phase: J+W 624

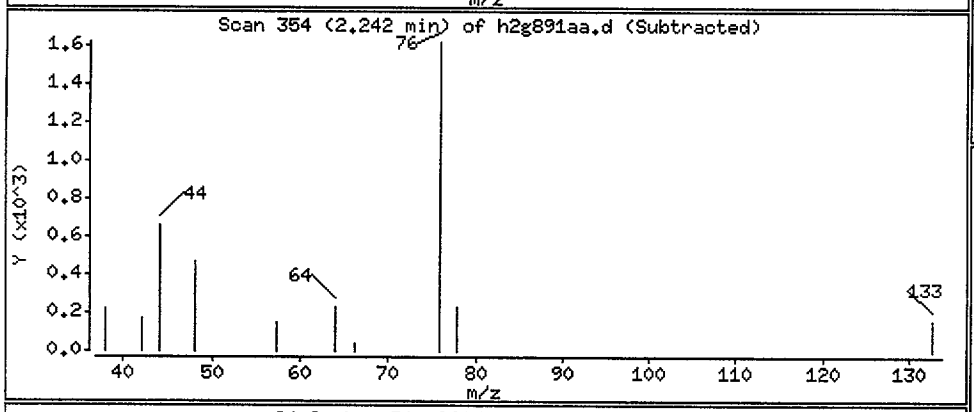
Column diameter: 0.18

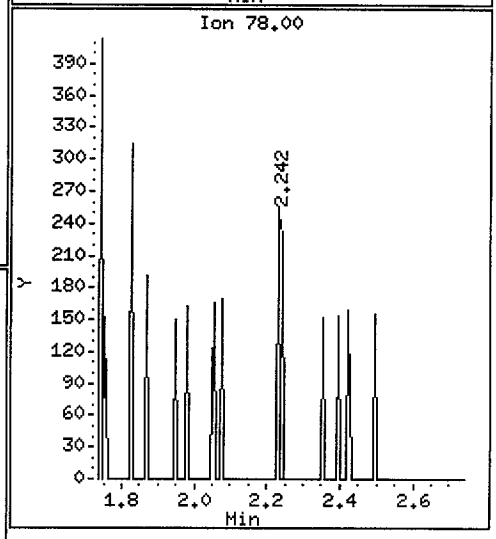
24 Carbon Disulfide

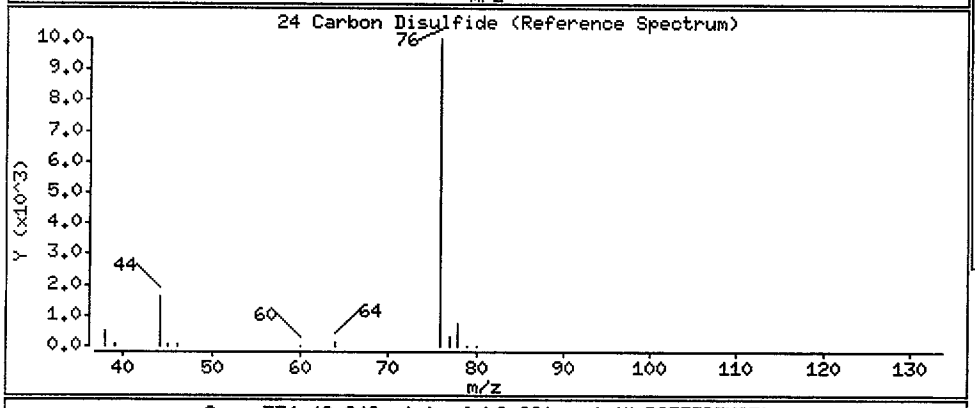
Concentration: 0.0013489 ug

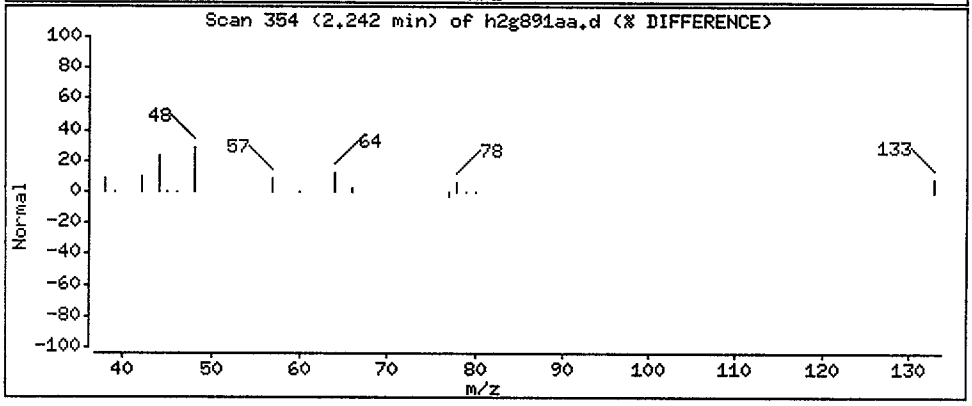












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

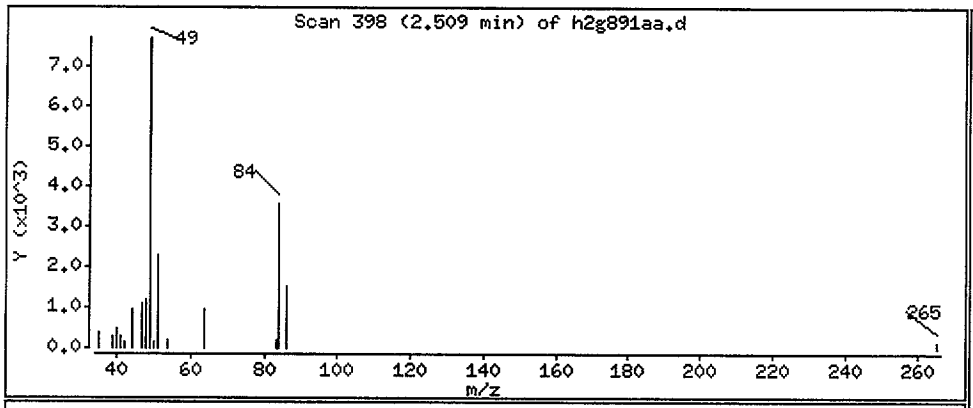
Operator: 22980

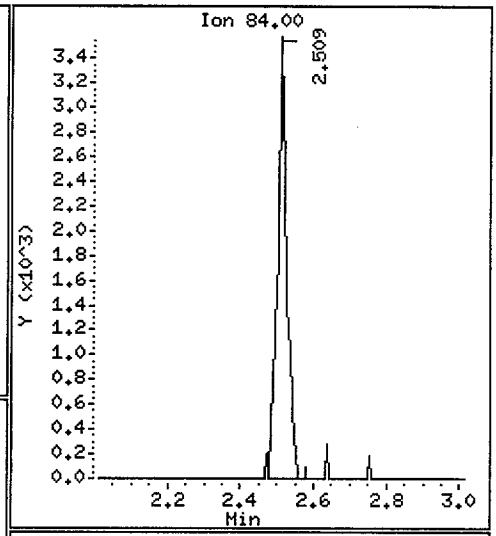
Column phase: J+W 624

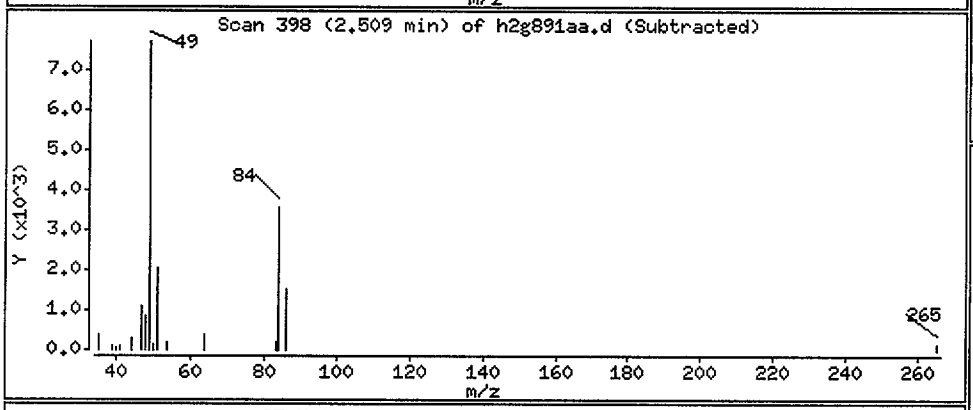
Column diameter: 0.18

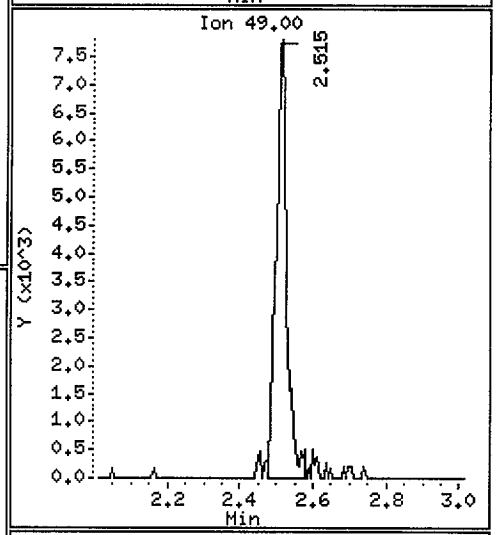
27 Methylene Chloride

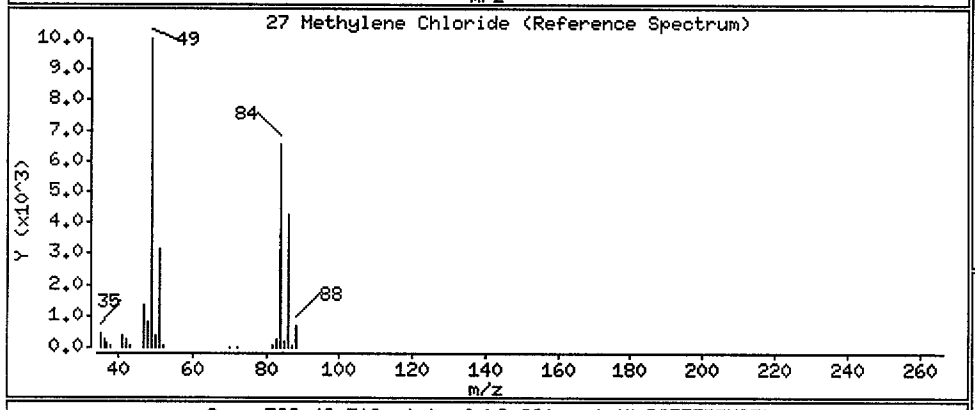
Concentration: 0.015453 ug

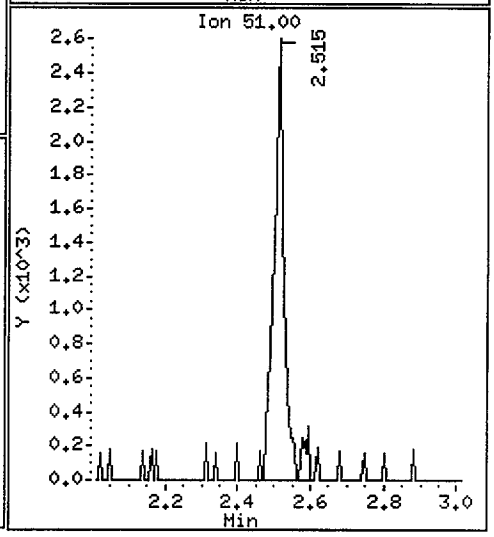


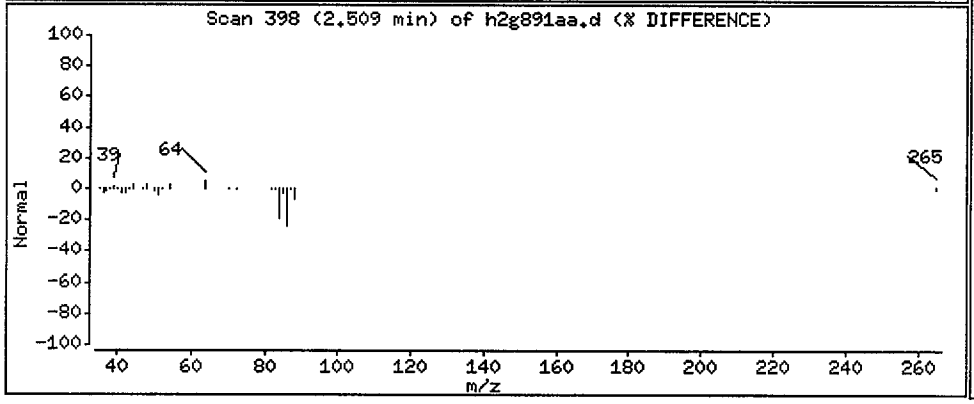












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

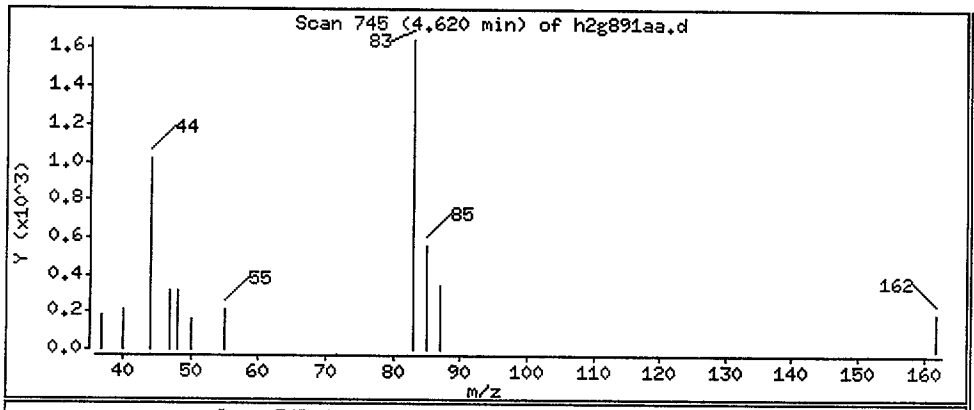
Operator: 22980

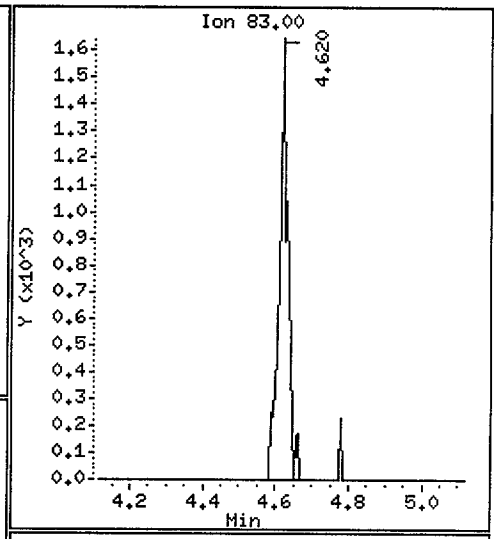
Column phase: J+W 624

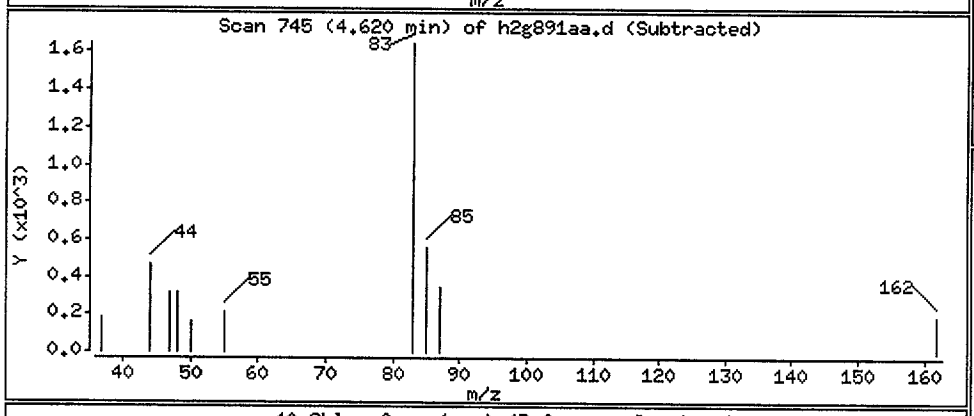
Column diameter: 0.18

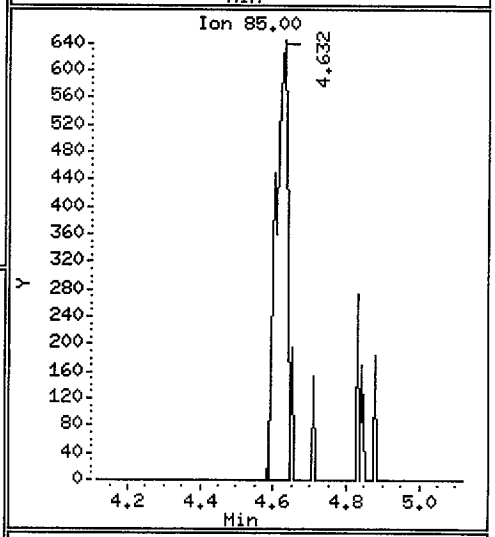
40 Chloroform (ccc)

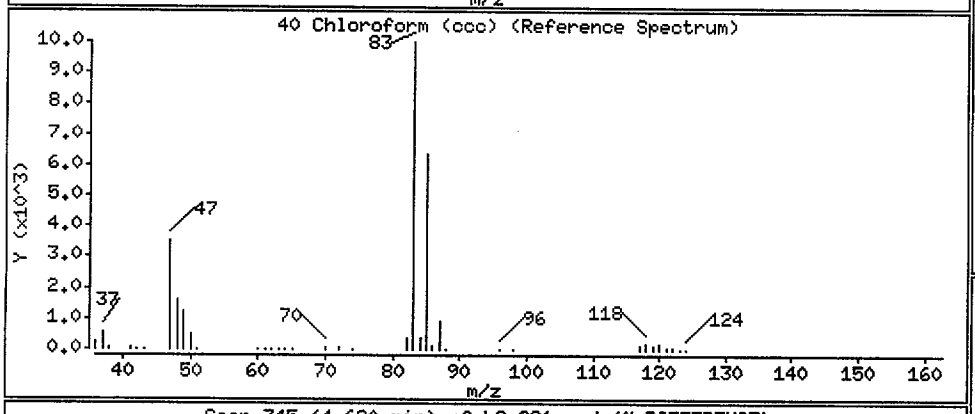
Concentration: 0.0030476 ug

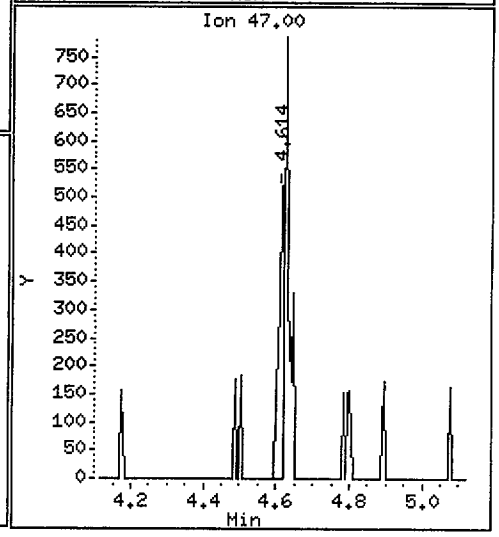


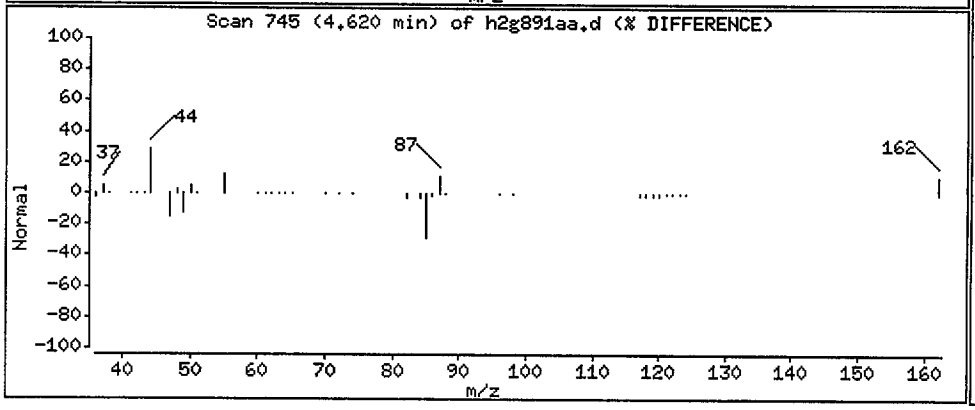












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

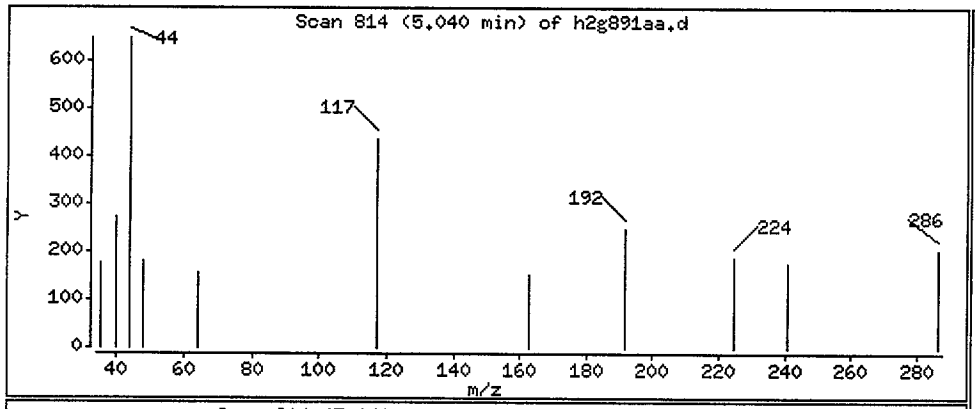
Operator: 22980

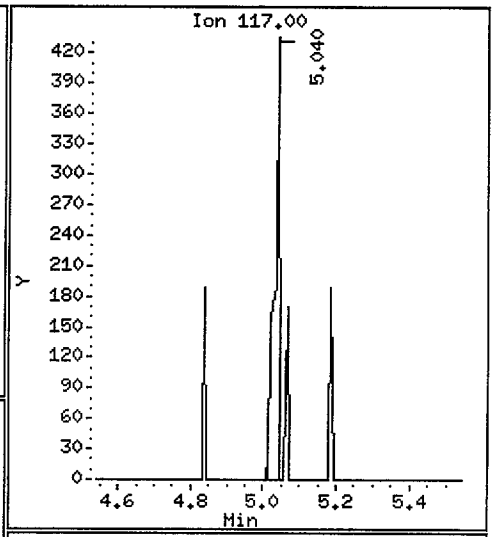
Column phase: J+W 624

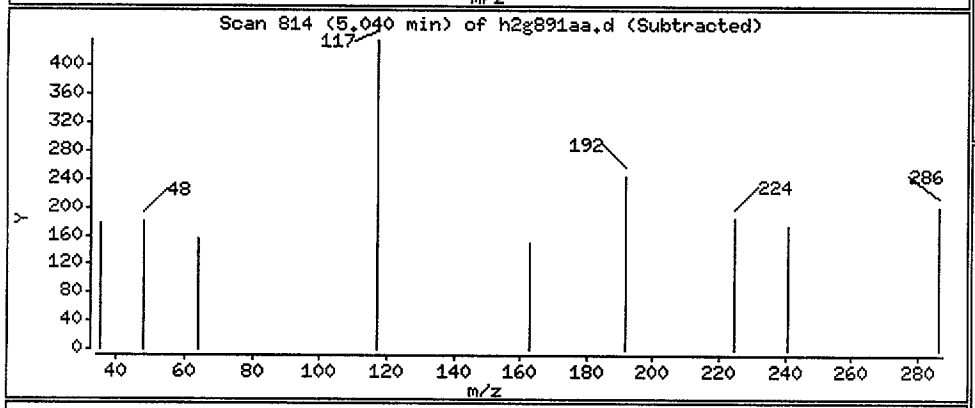
Column diameter: 0.18

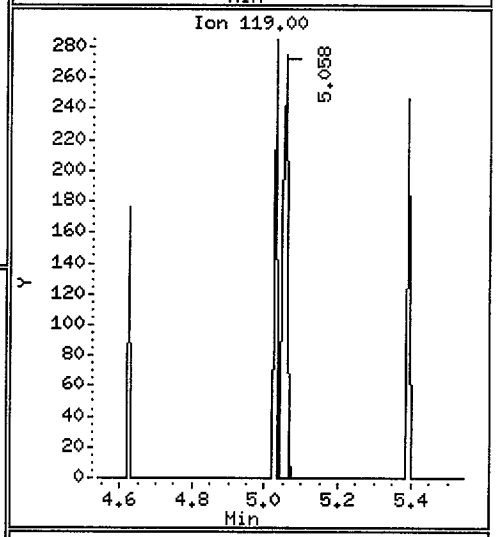
42 Carbon Tetrachloride

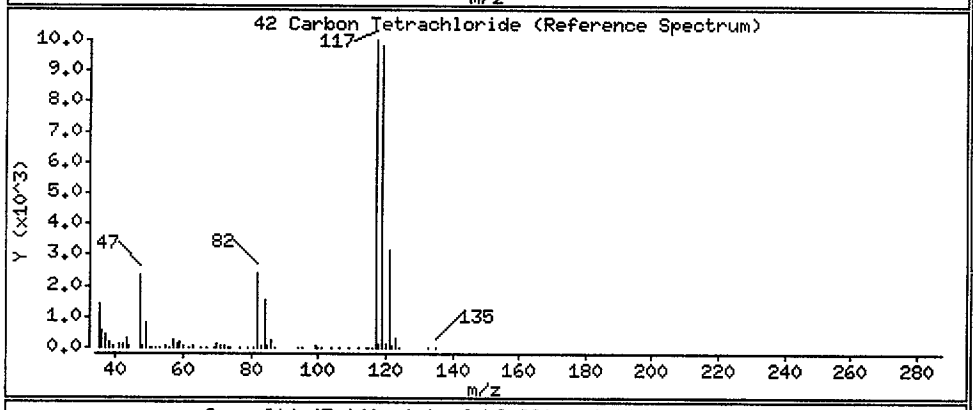
Concentration: 0.0090323 ug

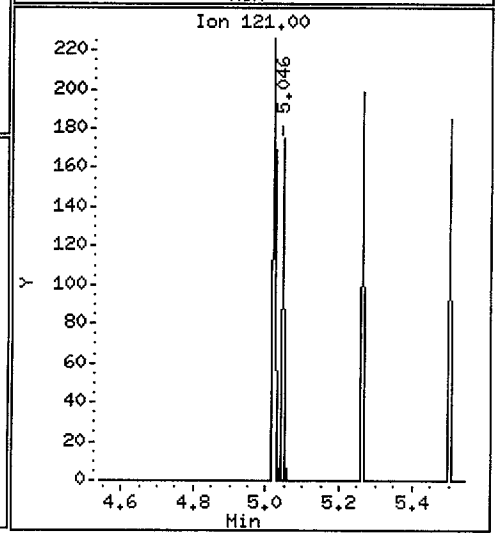


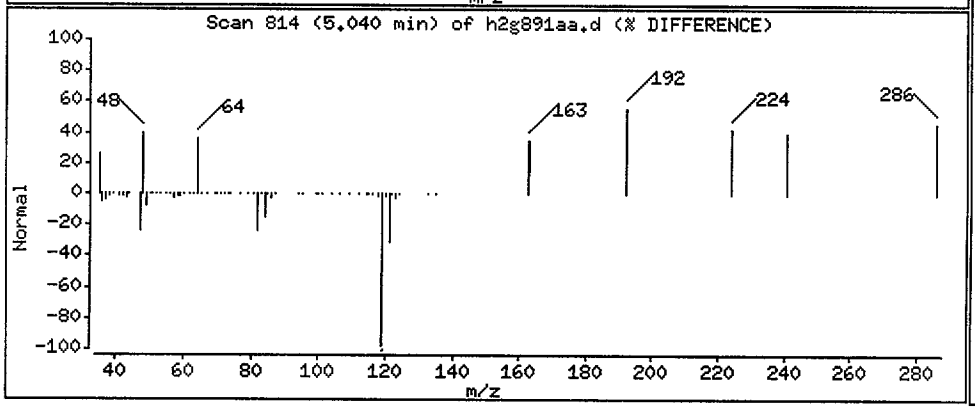












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

Operator: 22980

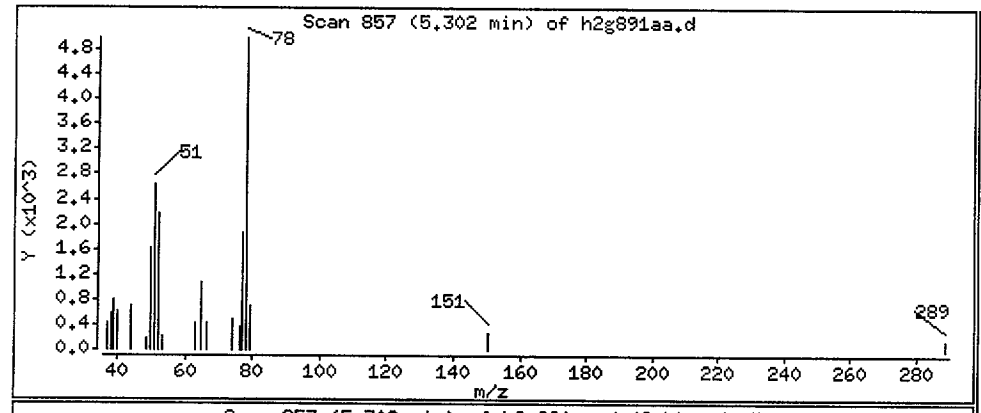
DLW 4.14.06

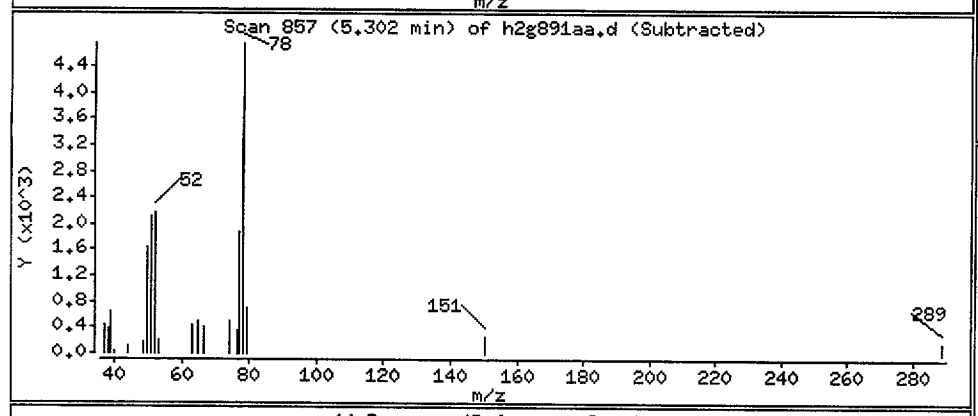
Column phase: J+W 624

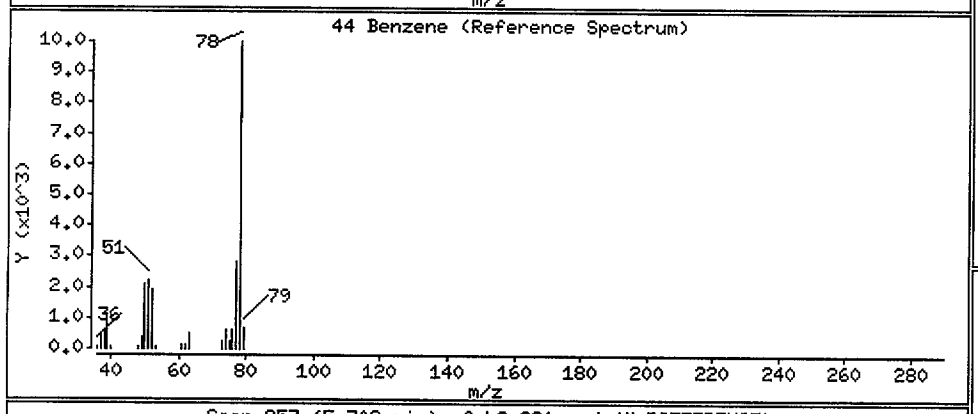
Column diameter: 0.18

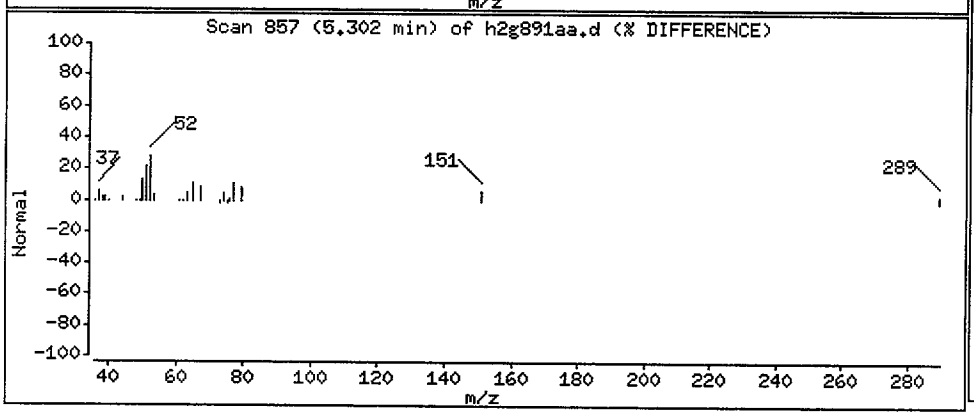
44 Benzene

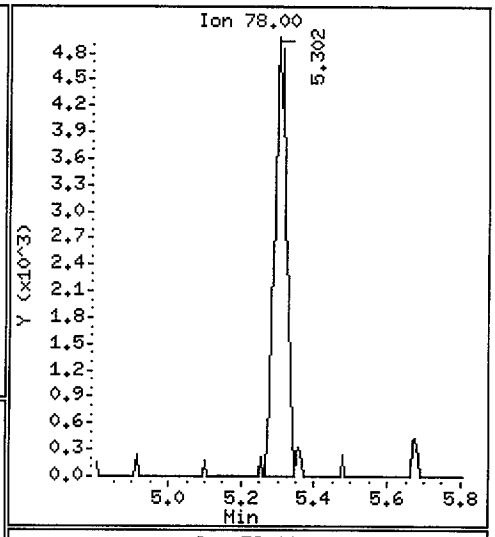
Concentration: 0.0047451 ug

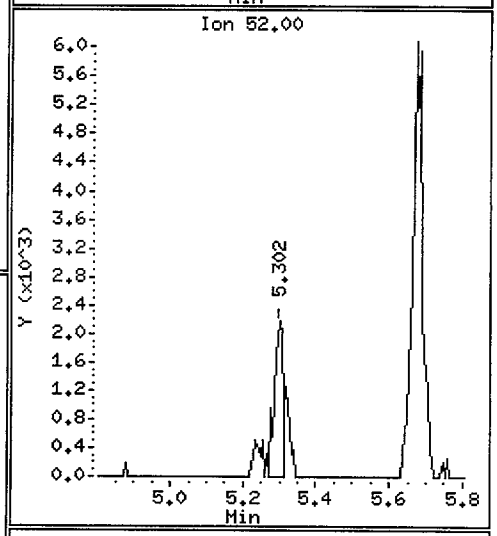


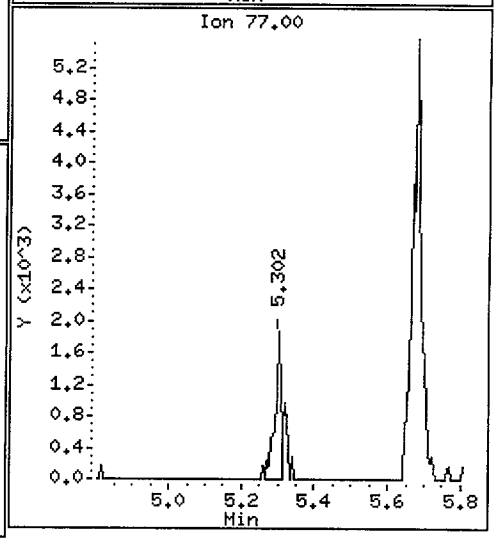












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

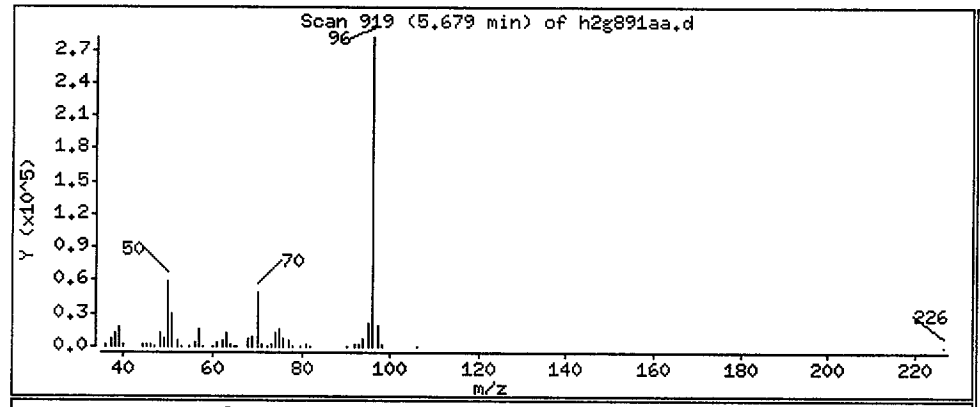
Operator: 22980

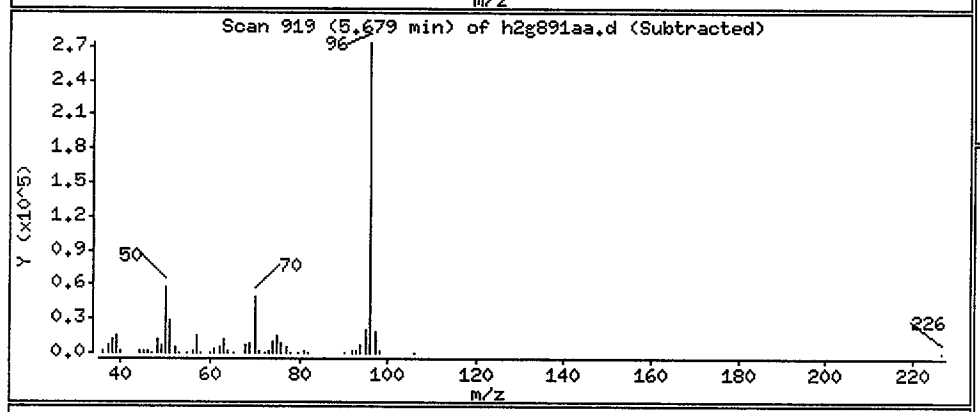
Column phase: J+W 624

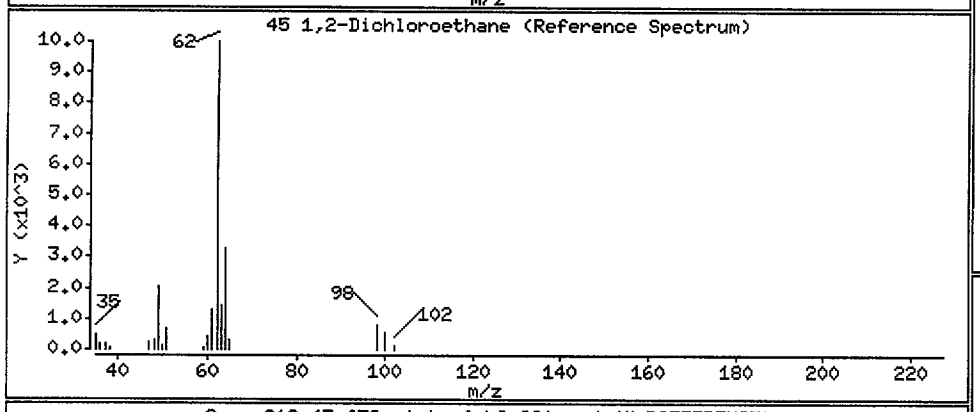
Column diameter: 0.18

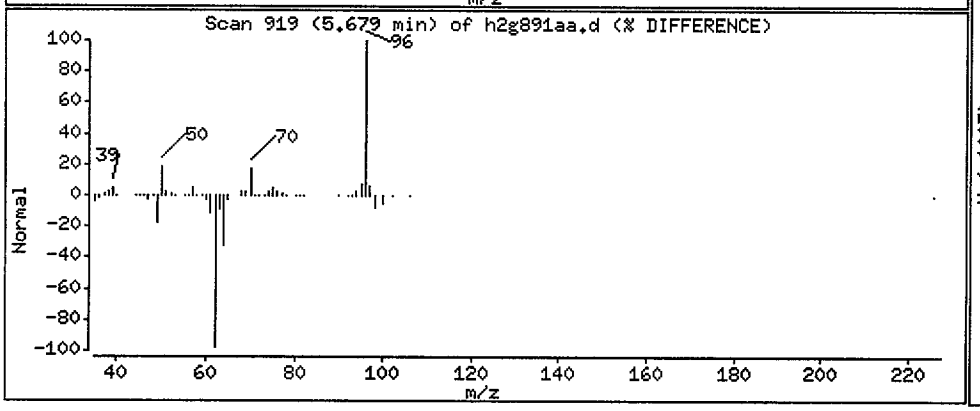
45 1,2-Dichloroethane

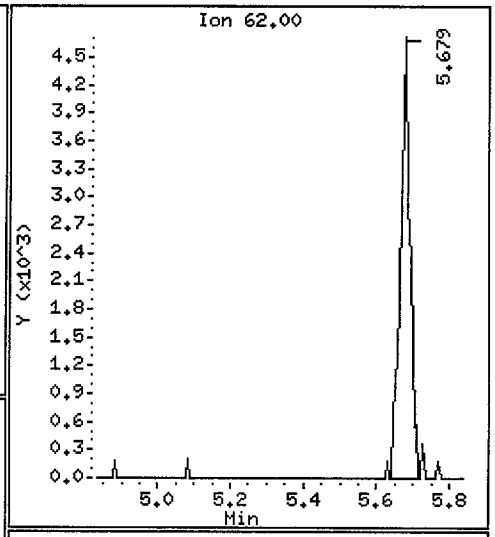
Concentration: 0.016839 ug

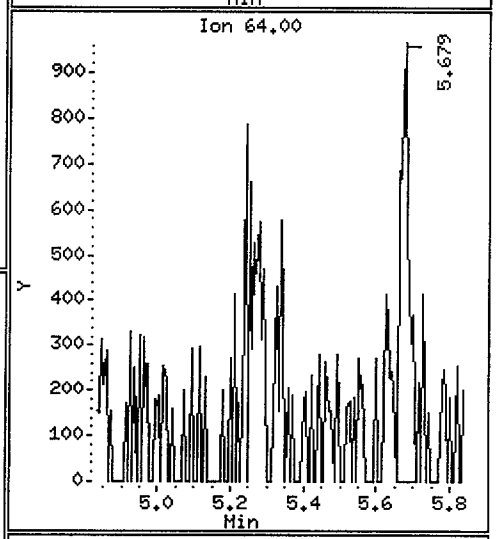


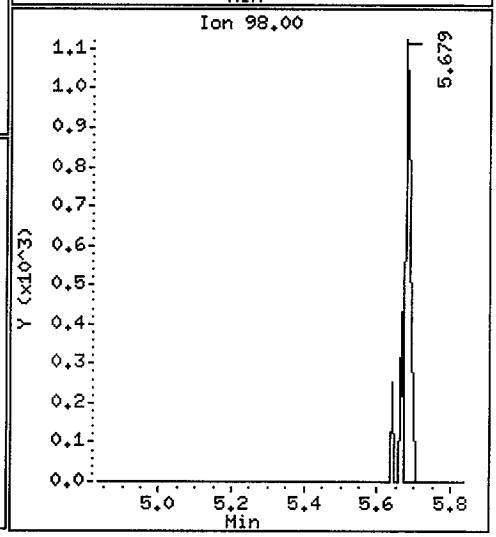












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

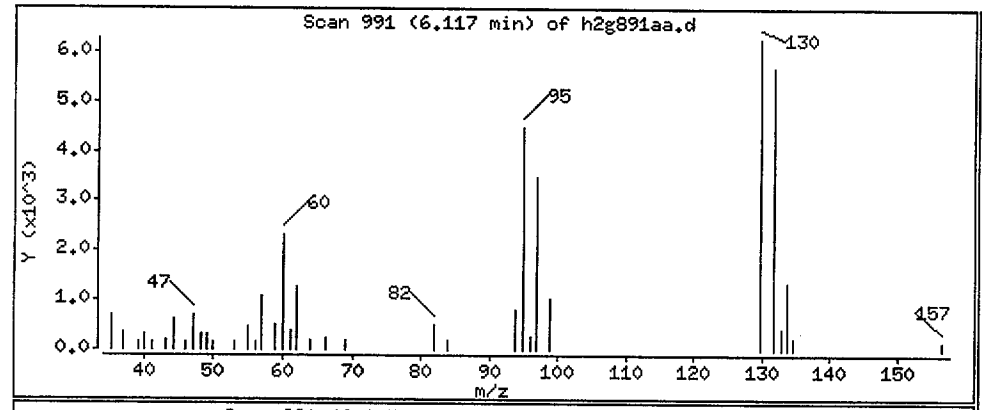
Operator: 22980

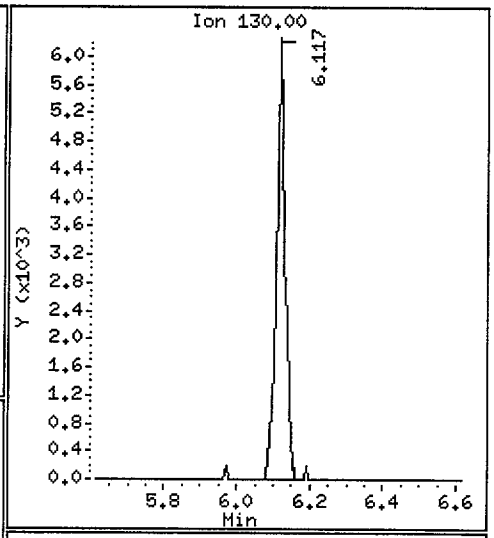
Column phase: J+W 624

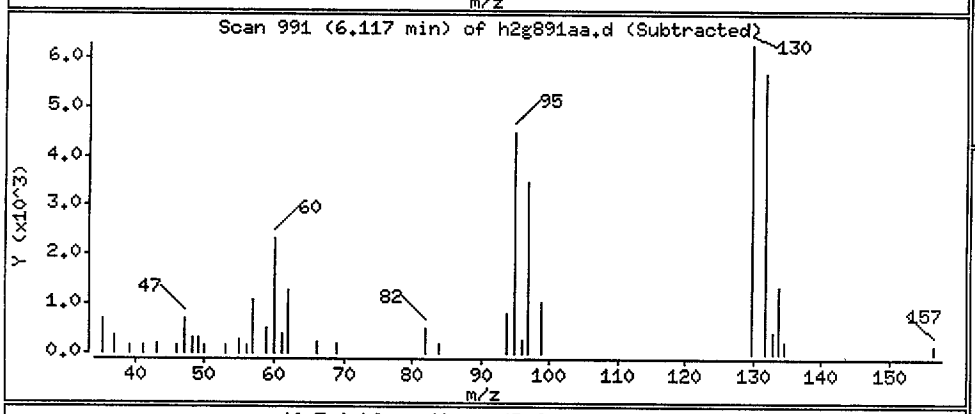
Column diameter: 0.18

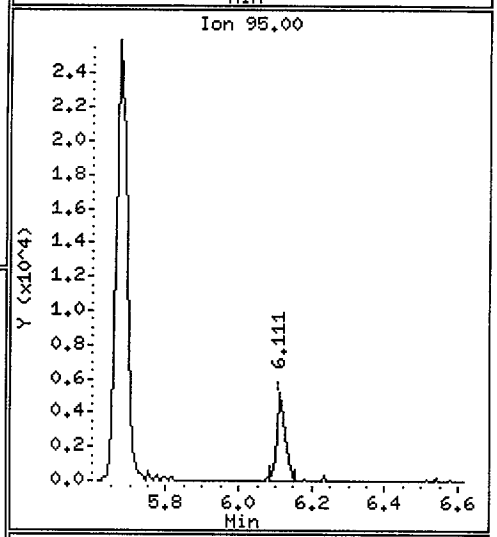
46 Trichloroethene

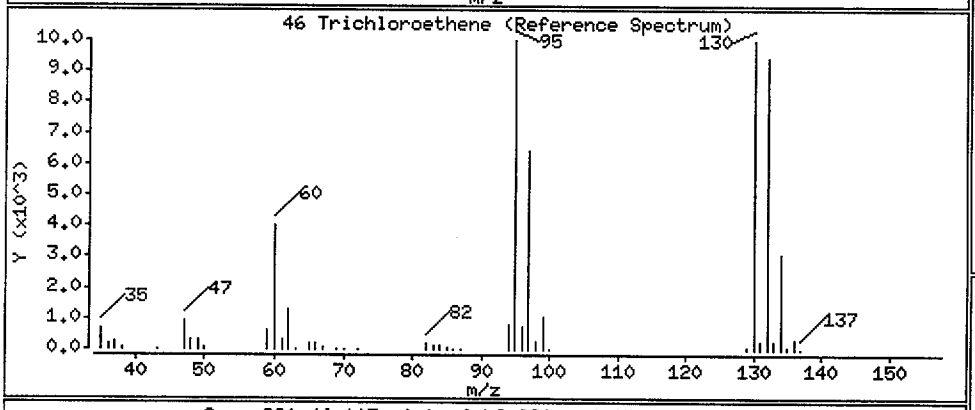
Concentration: 0.015363 ug

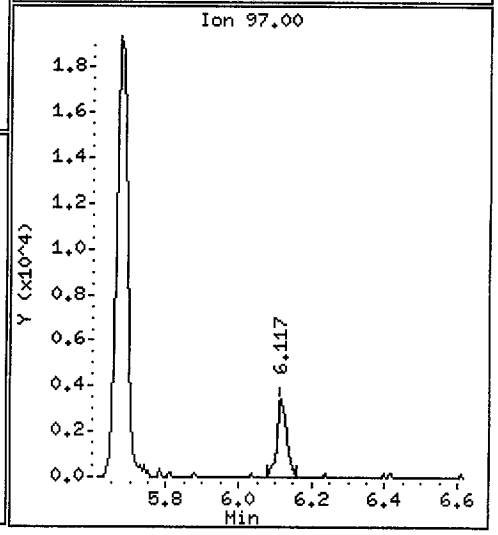


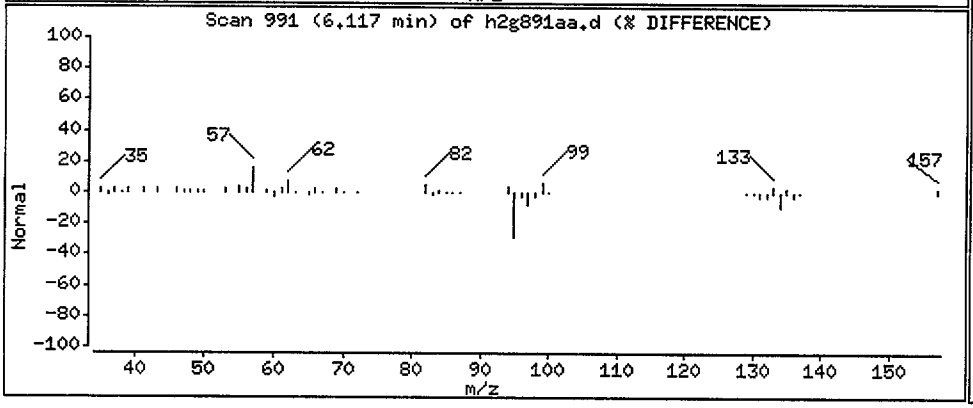












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

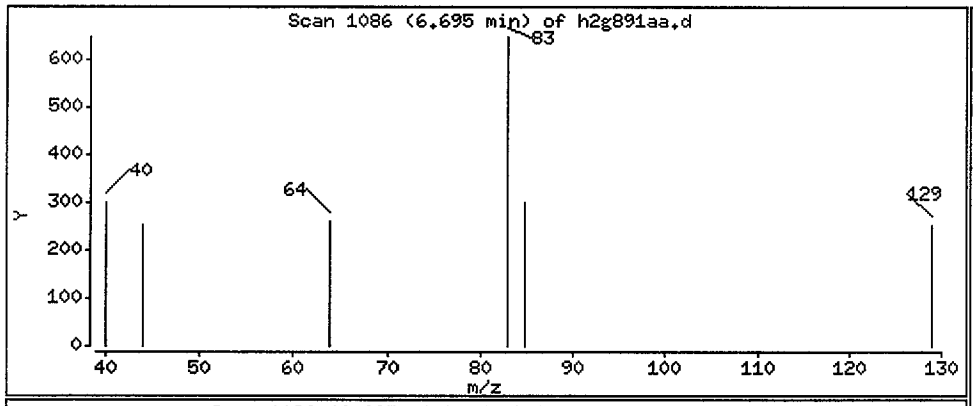
Operator: 22980

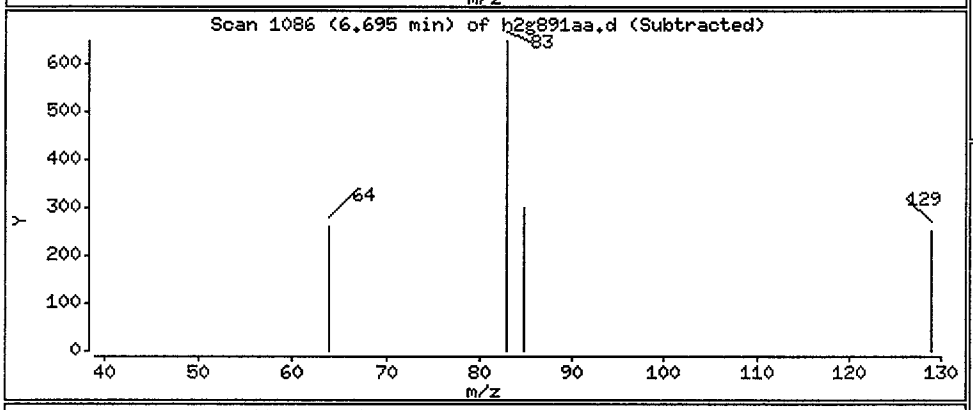
Column phase: J+W 624

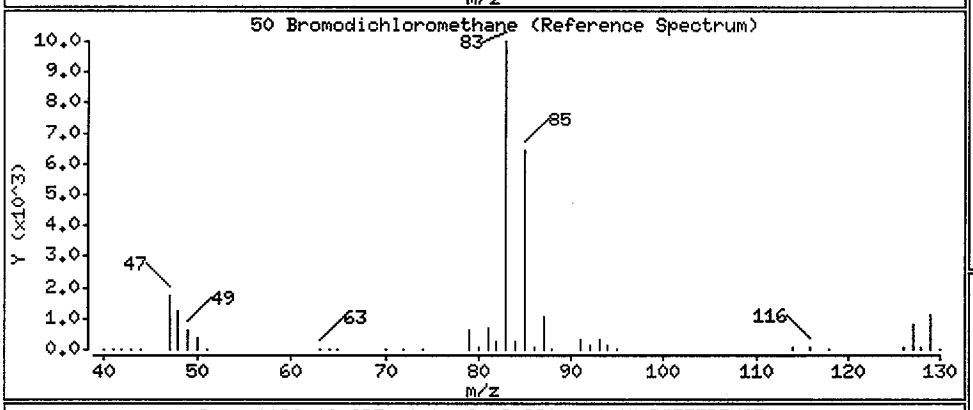
Column diameter: 0.18

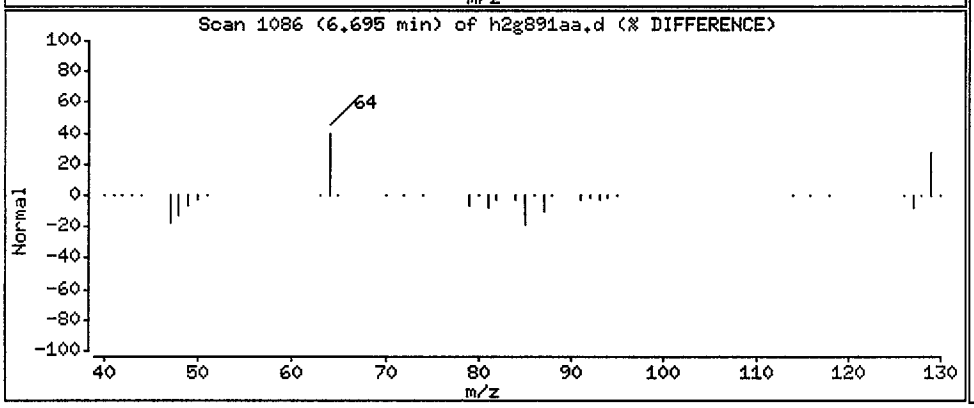
50 Bromodichloromethane

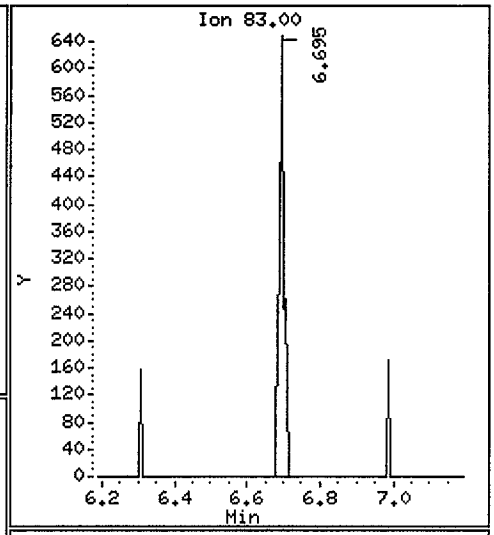
Concentration: 0.019716 ug

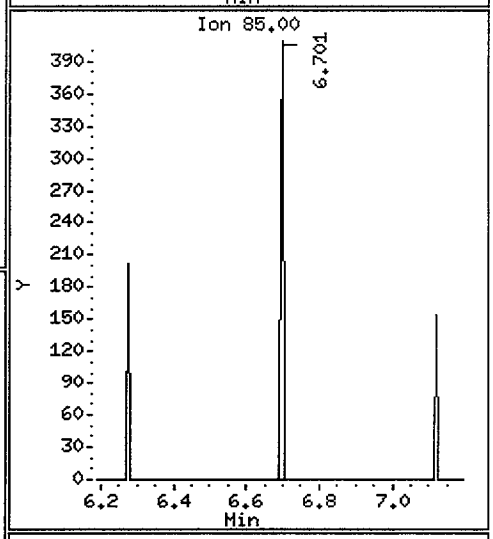


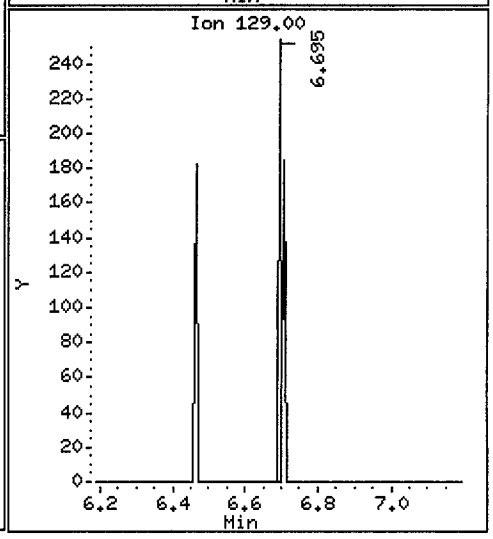












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

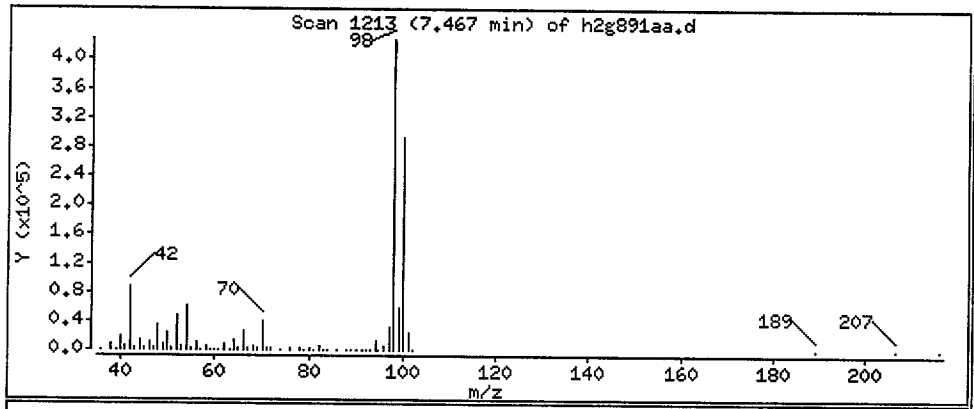
Operator: 22980

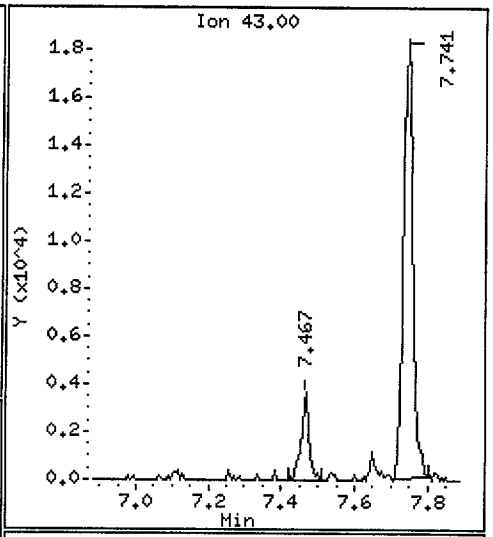
Column phase: J+W 624

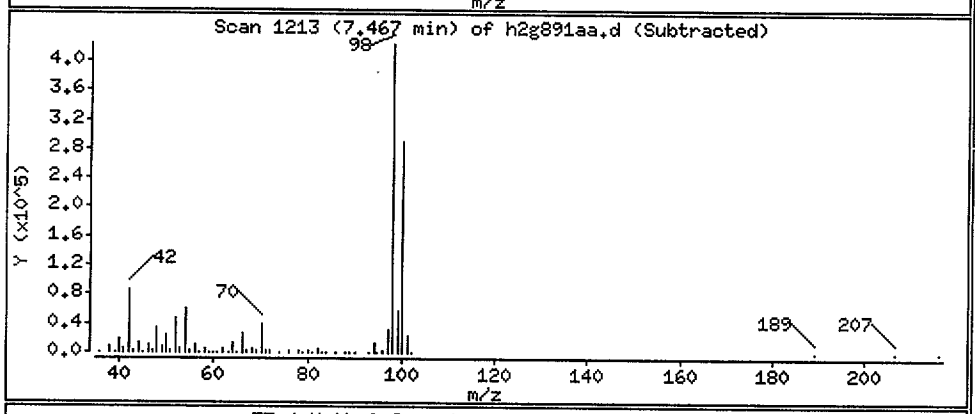
Column diameter: 0.18

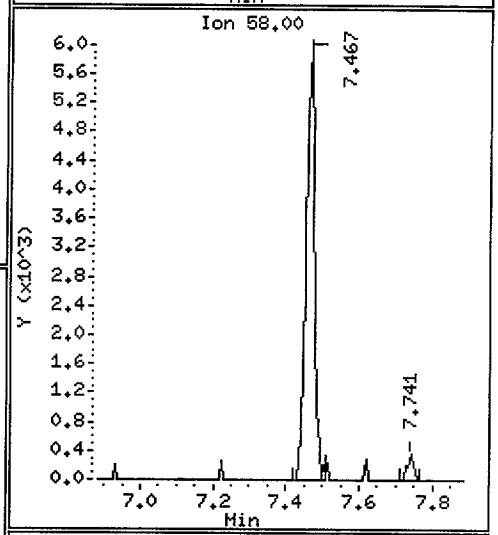
53 4-Methyl-2-pentanone

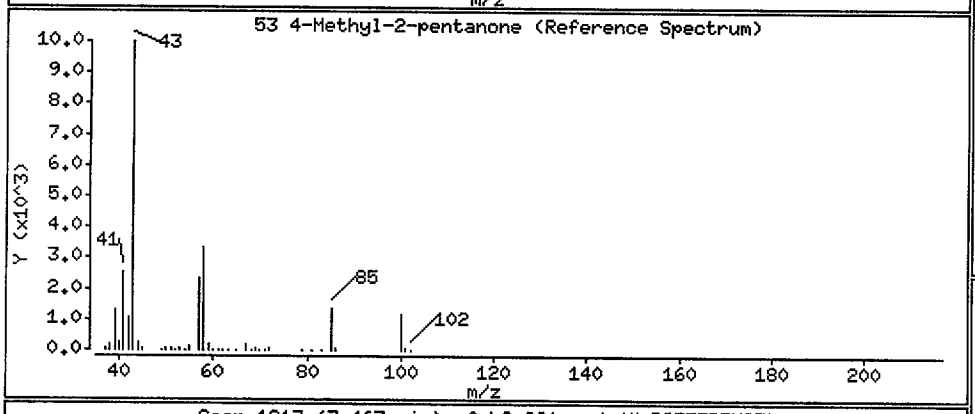
Concentration: 0.027370 ug

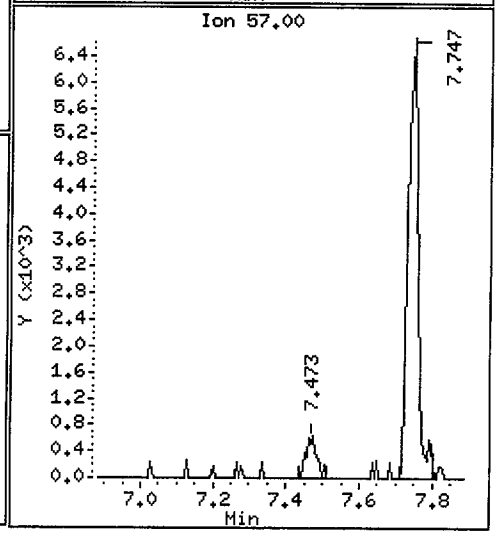


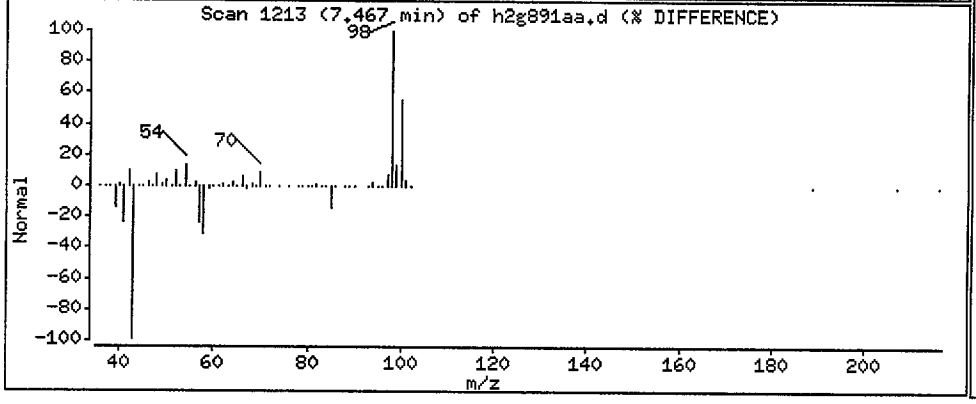












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

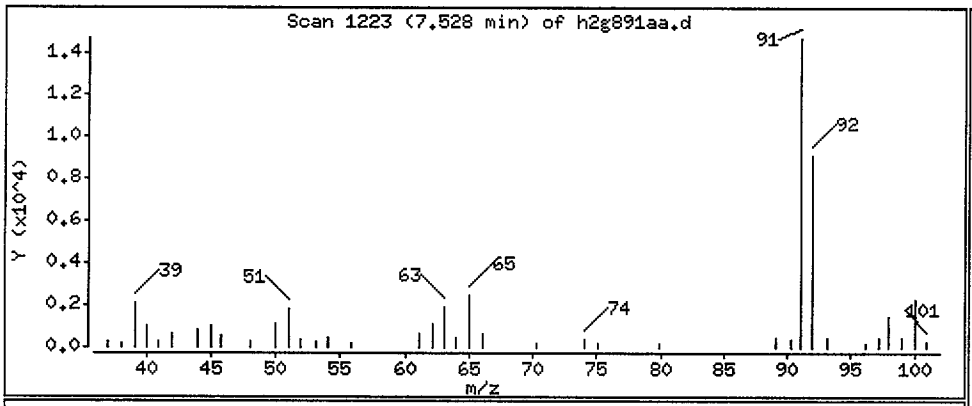
Operator: 22980

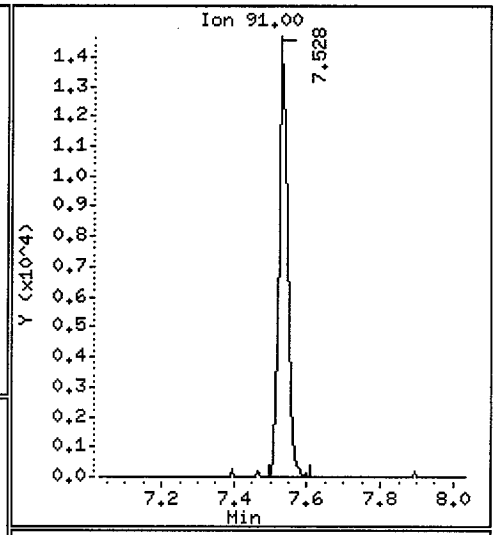
Column phase: J+W 624

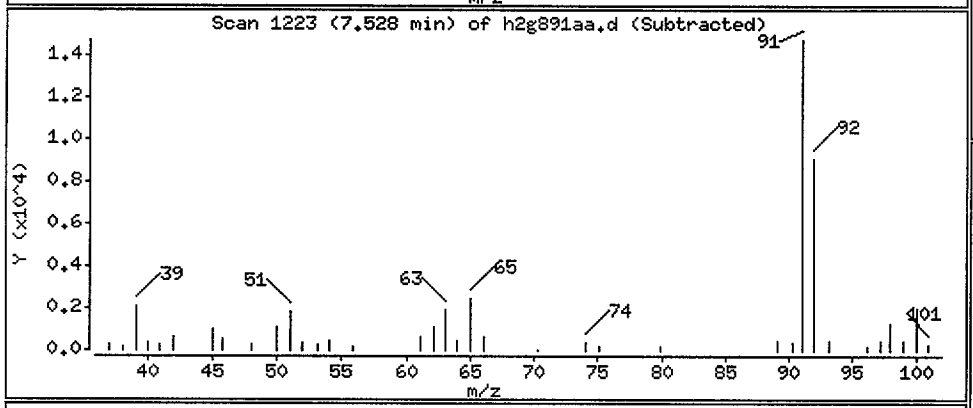
Column diameter: 0.18

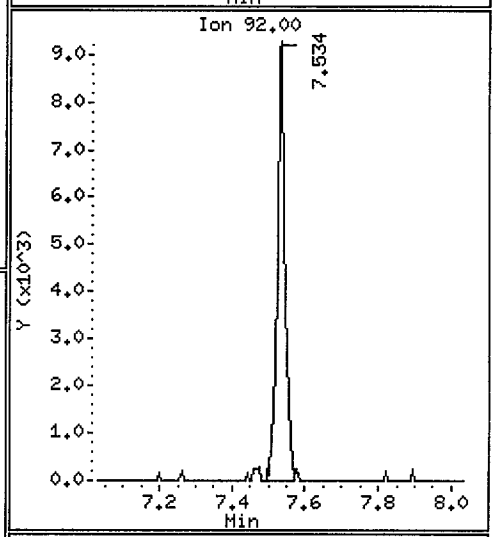
54 Toluene (ccc)

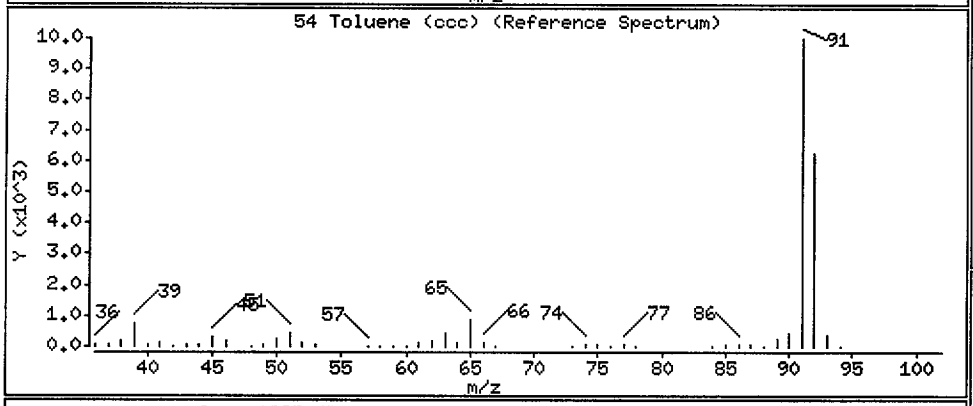
Concentration: 0.0066790 ug

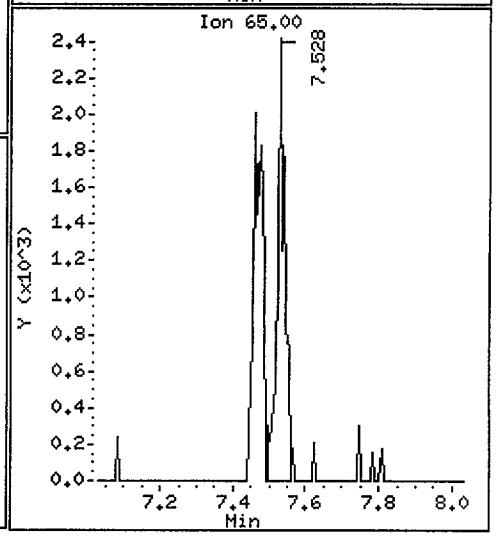


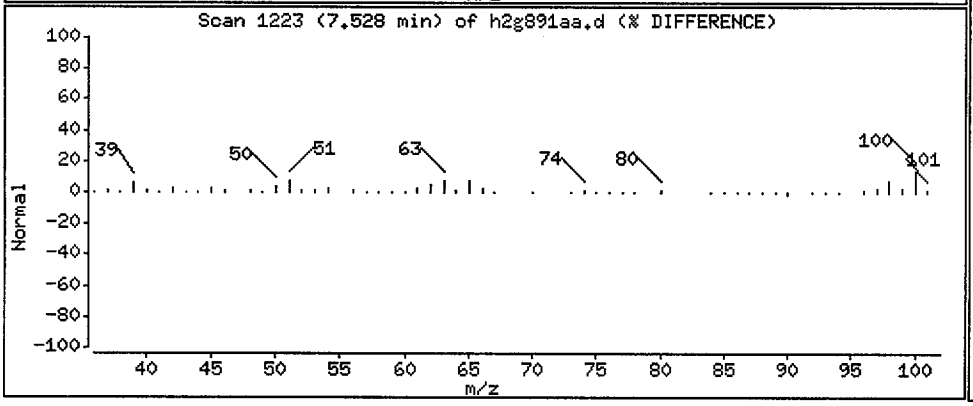












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

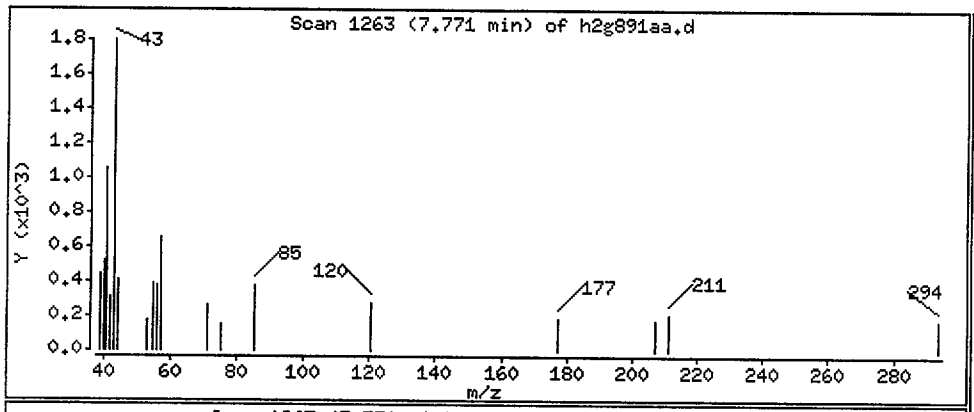
Operator: 22980

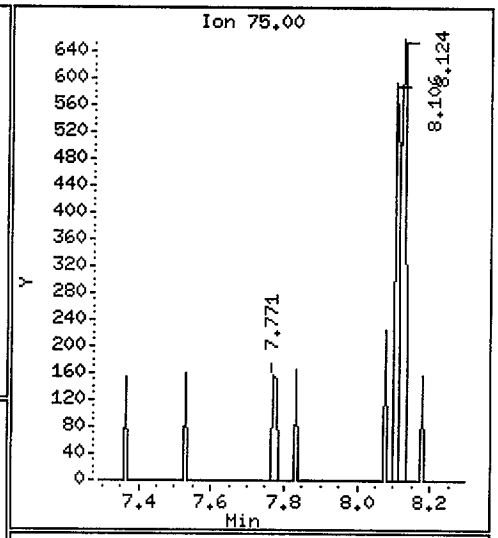
Column phase: J+W 624

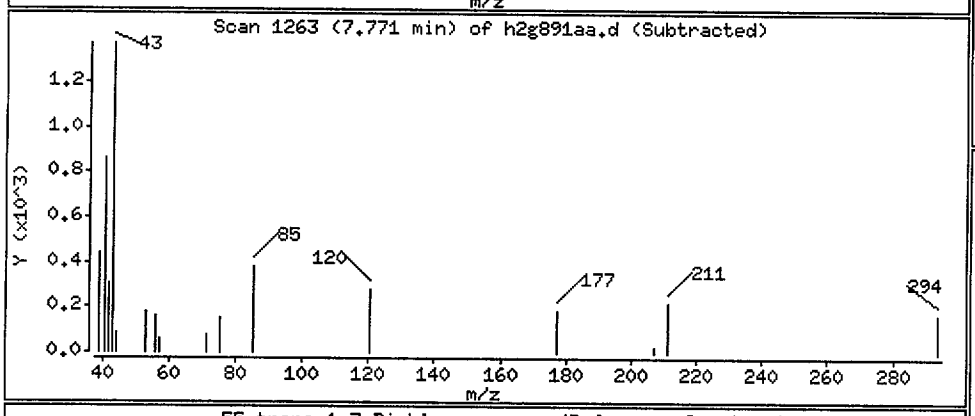
Column diameter: 0.18

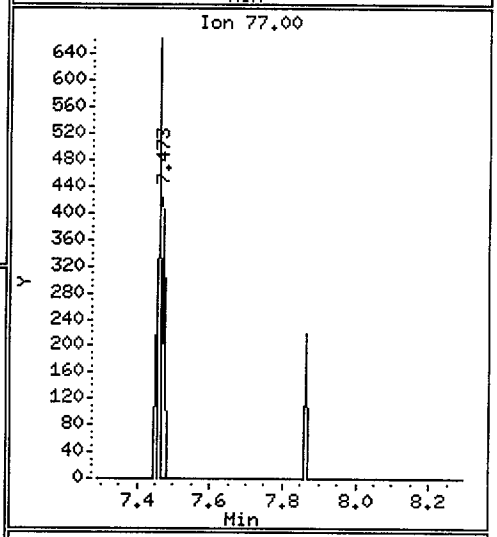
55 trans-1,3-Dichloropropene

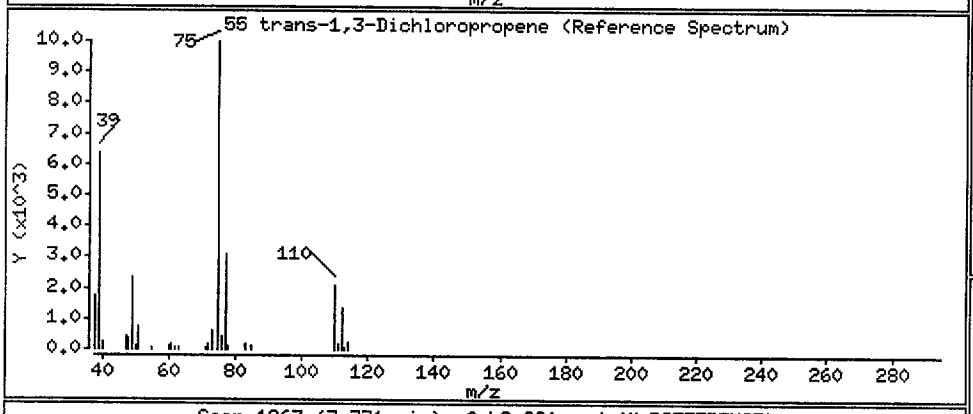
Concentration: 0.015824 ug

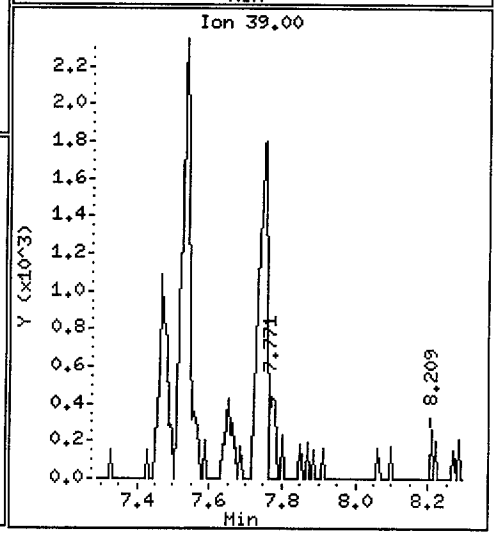


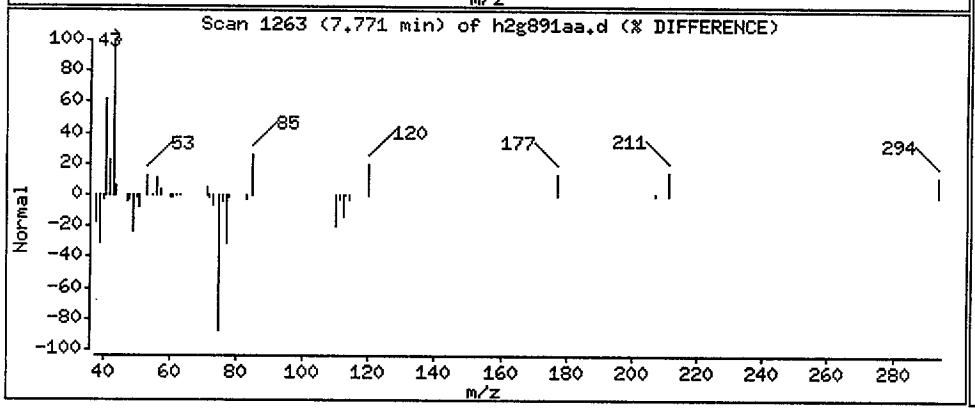












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

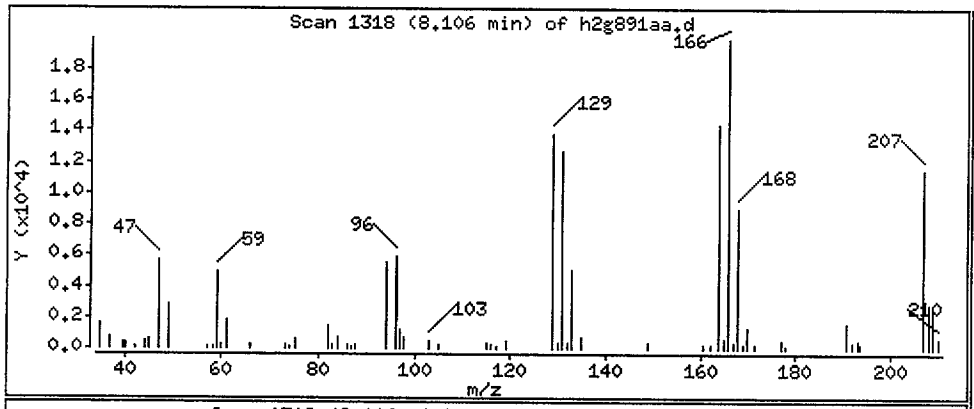
Operator: 22980

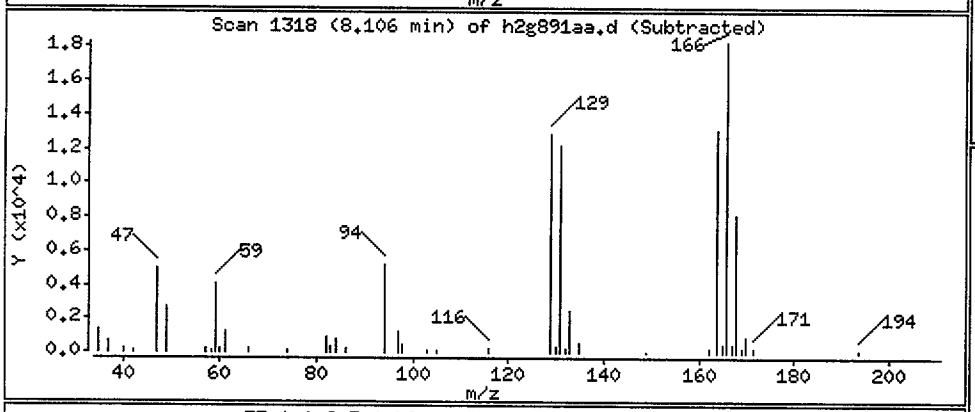
Column phase: J+W 624

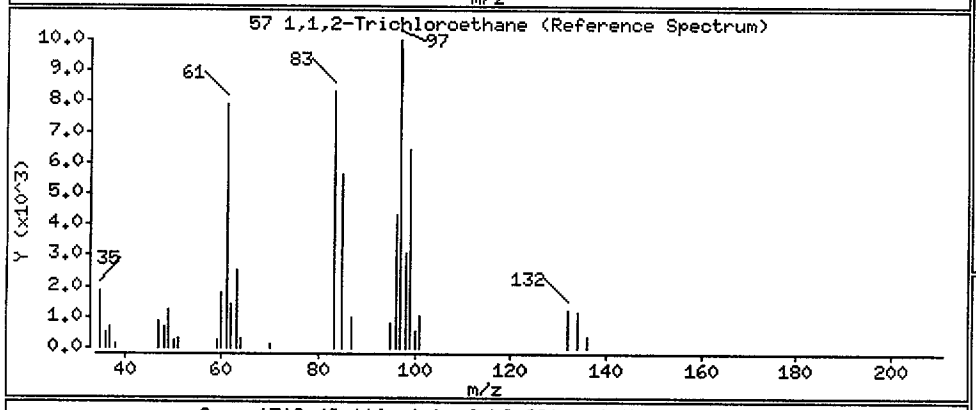
Column diameter: 0.18

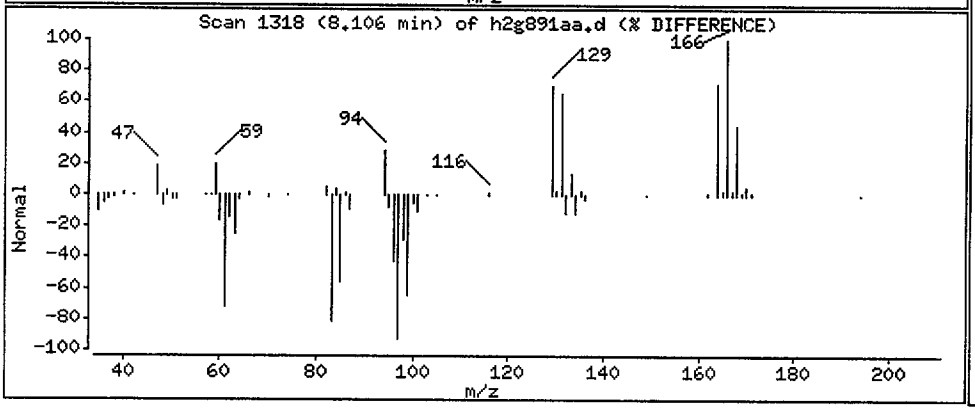
57 1,1,2-Trichloroethane

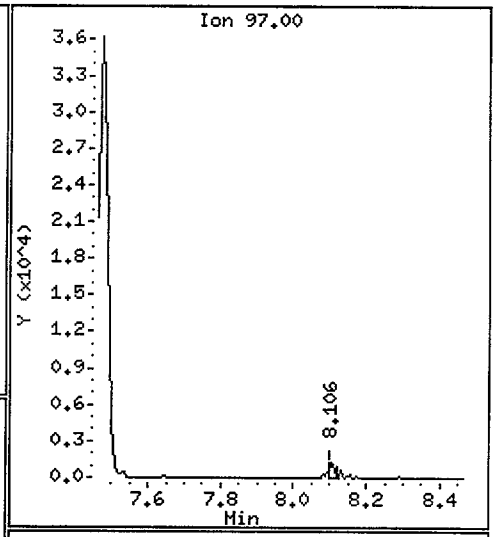
Concentration: 0.0028138 ug

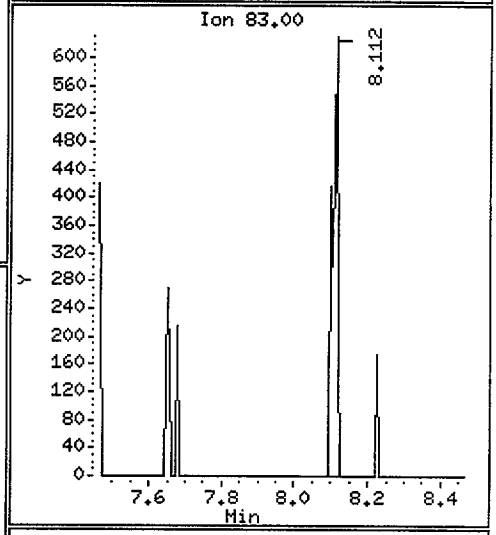


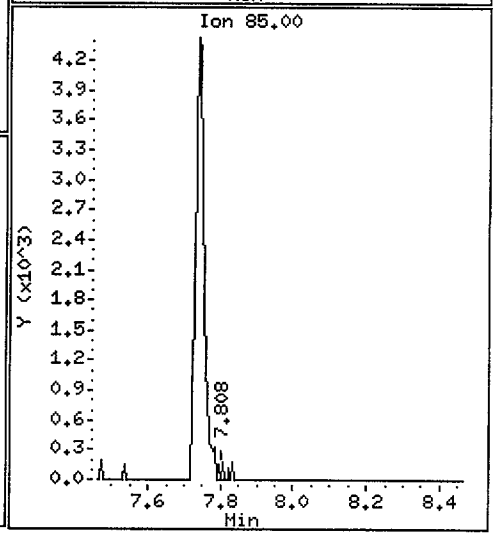












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

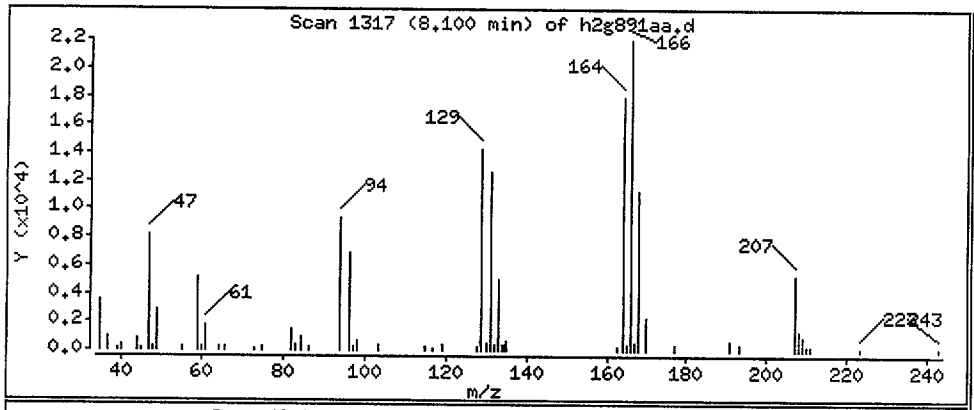
Operator: 22980

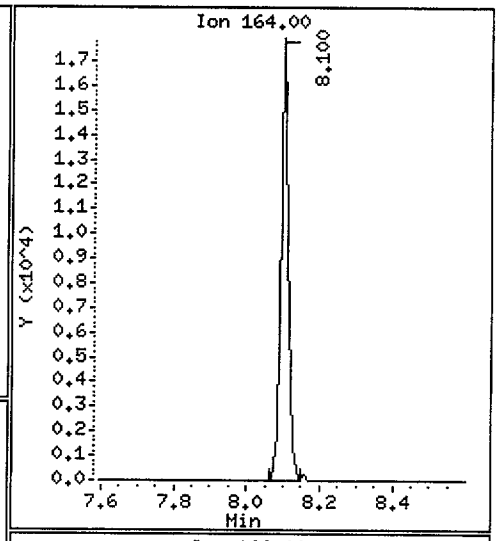
Column phase: J+W 624

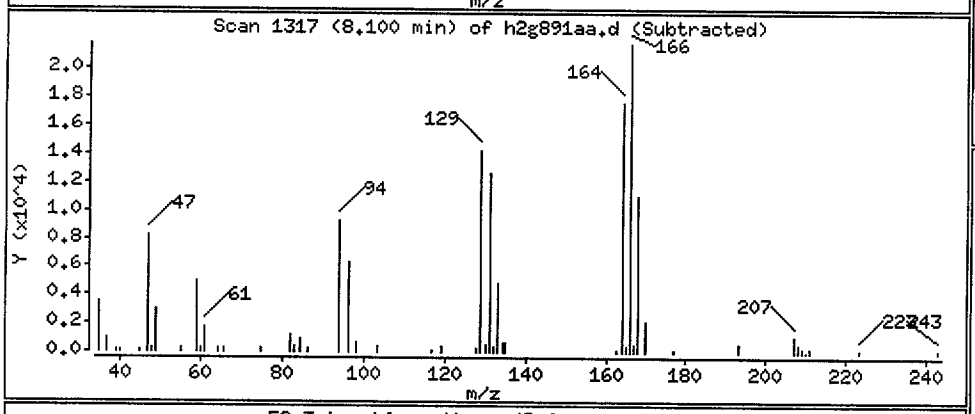
Column diameter: 0.18

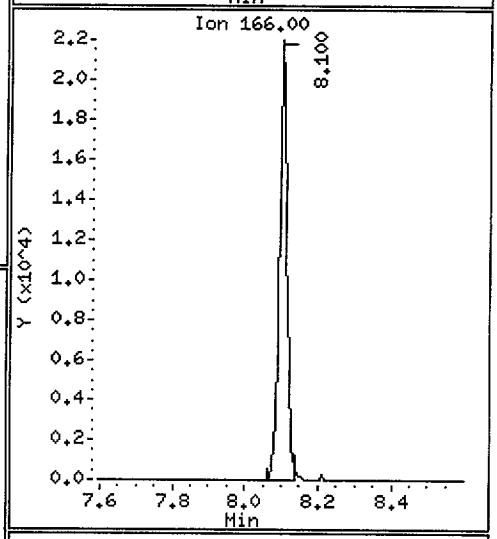
58 Tetrachloroethene

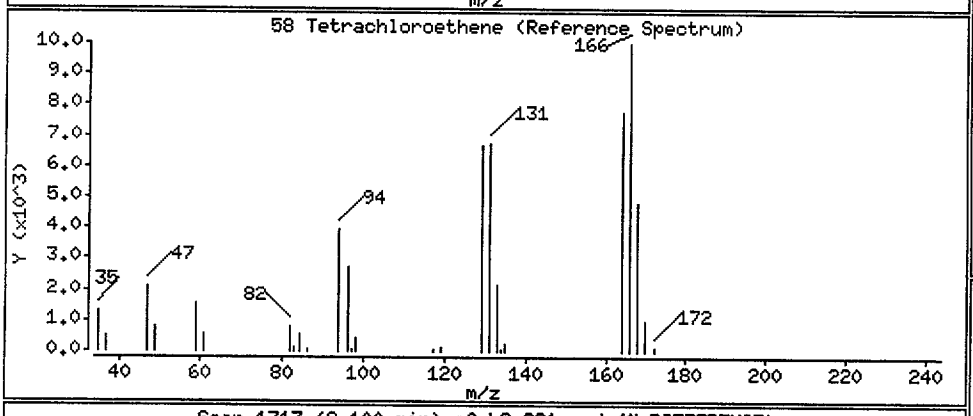
Concentration: 0.033258 ug

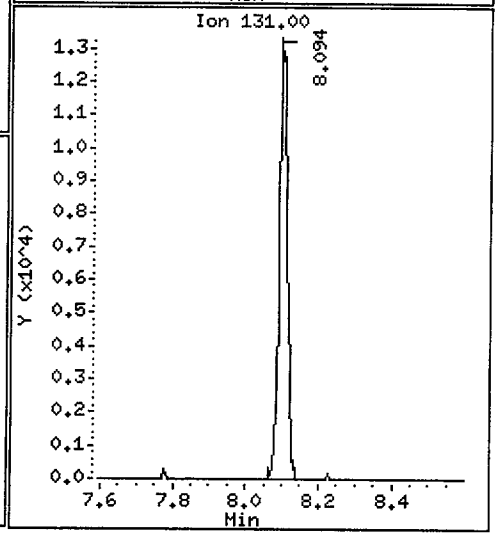


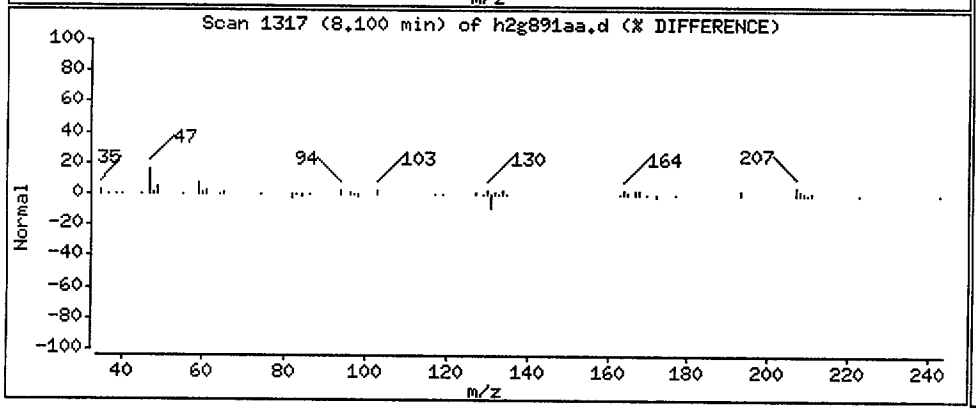












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

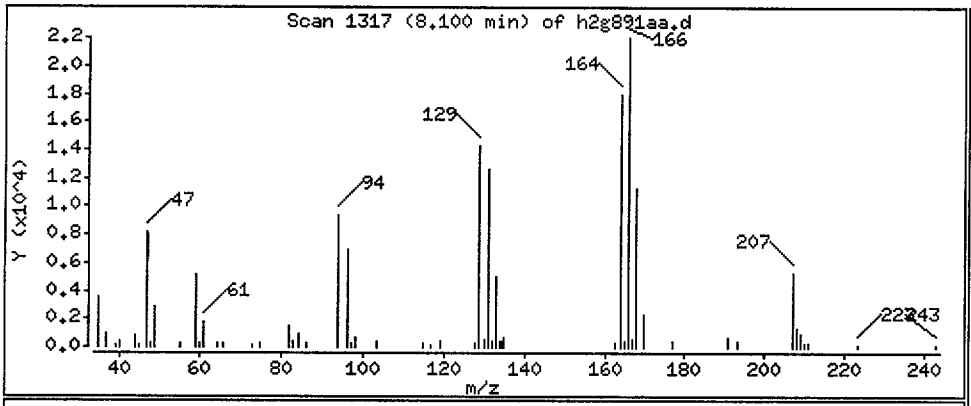
Operator: 22980

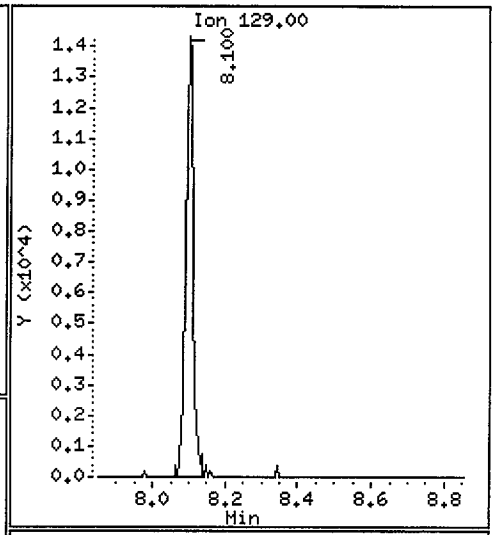
Column phase: J+W 624

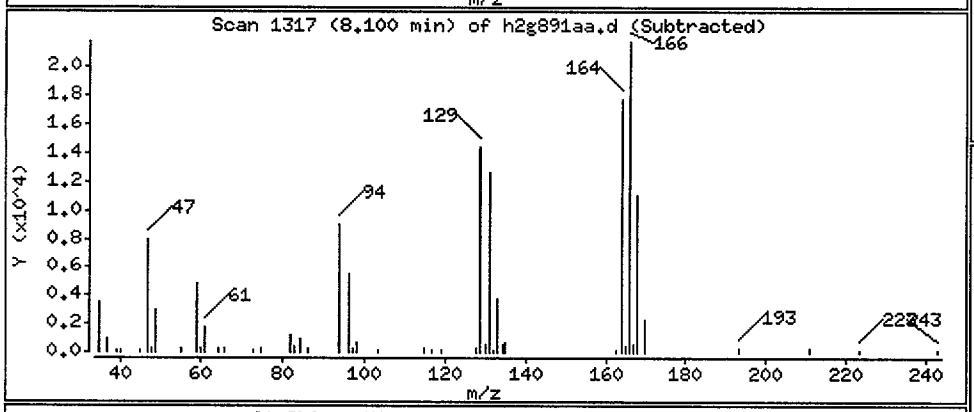
Column diameter: 0.18

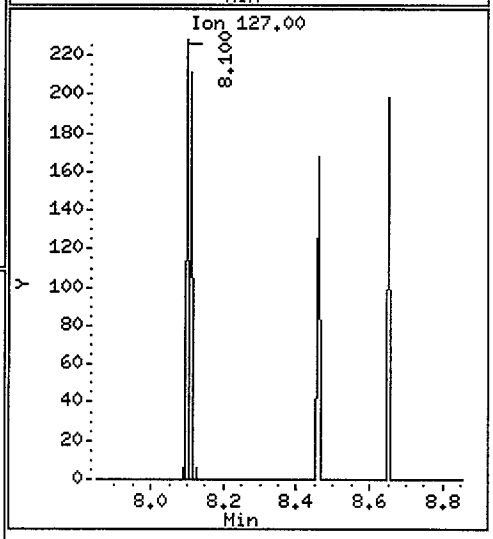
61 Chlorodibromomethane

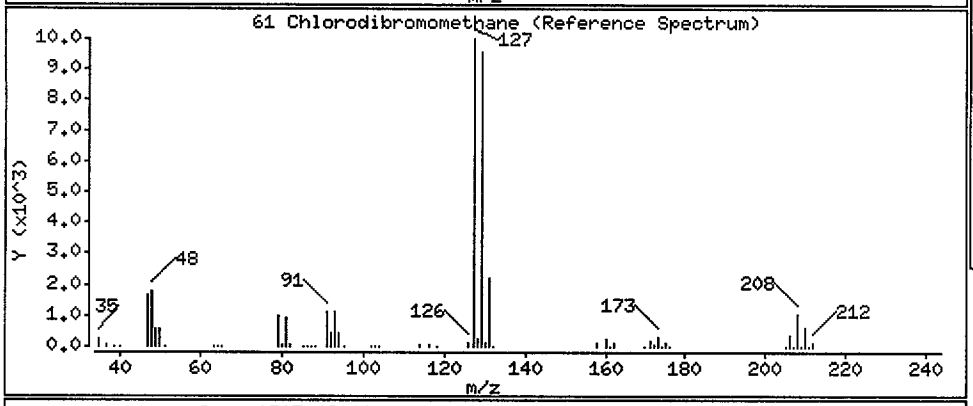
Concentration: 0.083886 ug

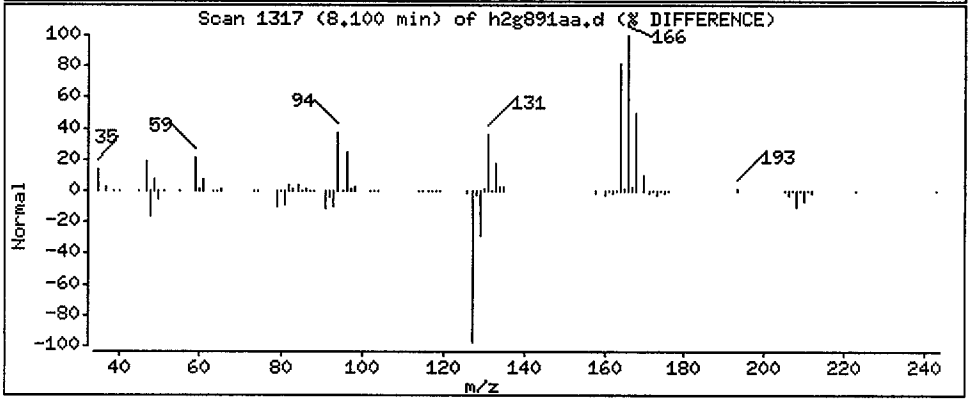












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

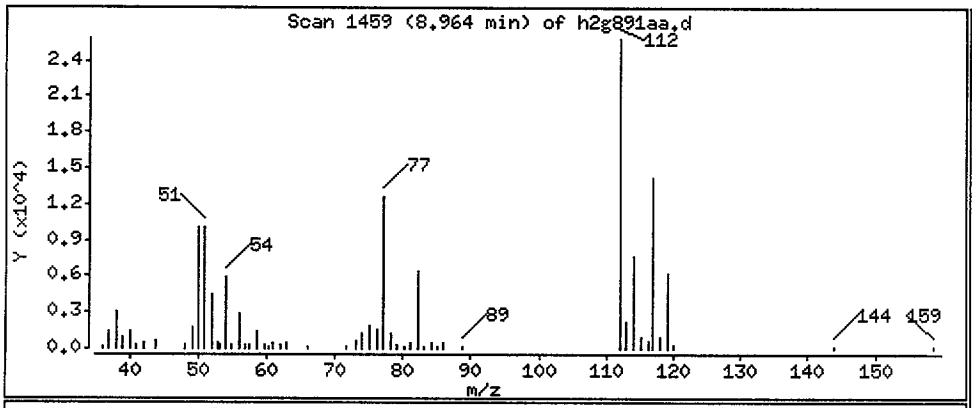
Operator: 22980

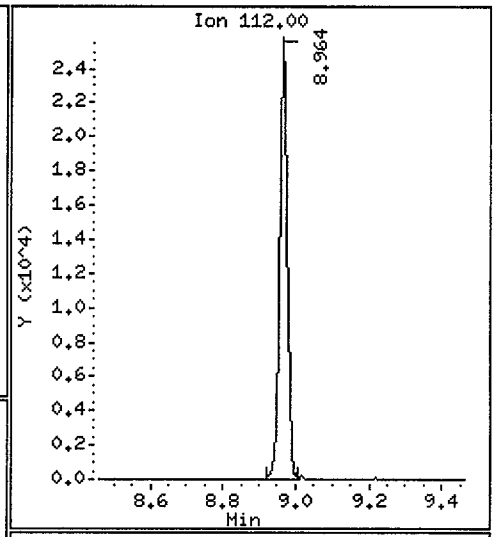
Column phase: J+W 624

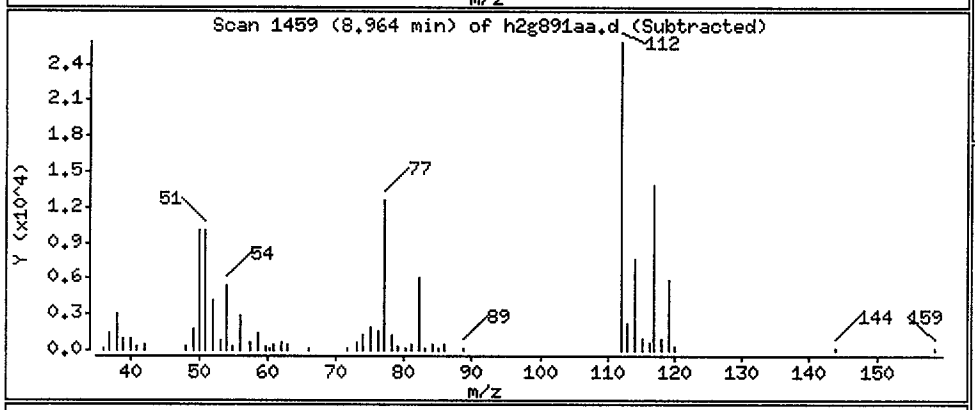
Column diameter: 0.18

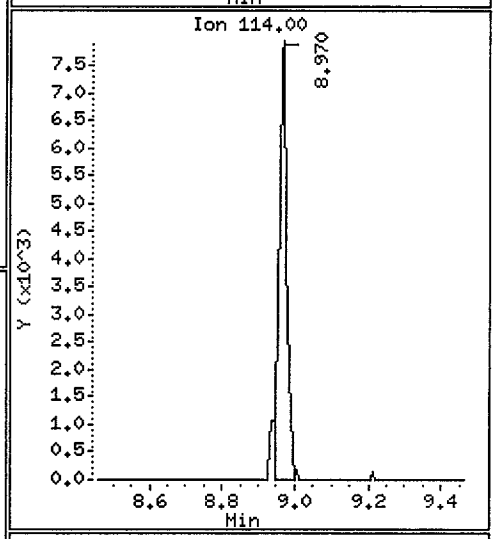
63 Chlorobenzene (spcc)

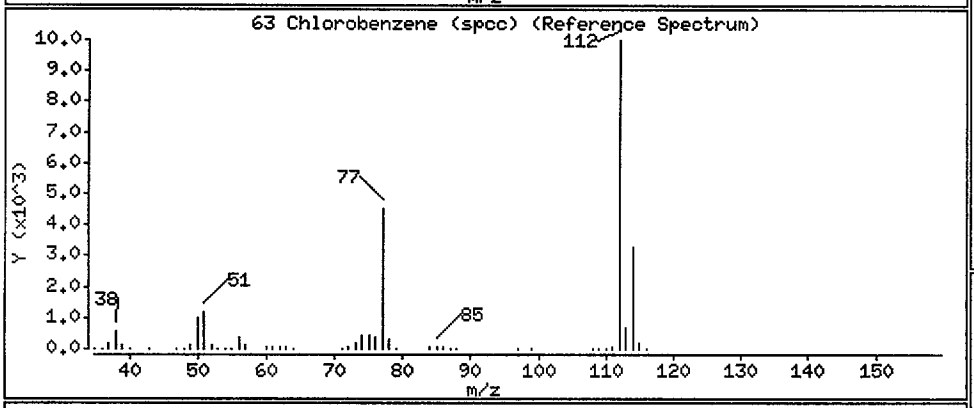
Concentration: 0.018492 ug

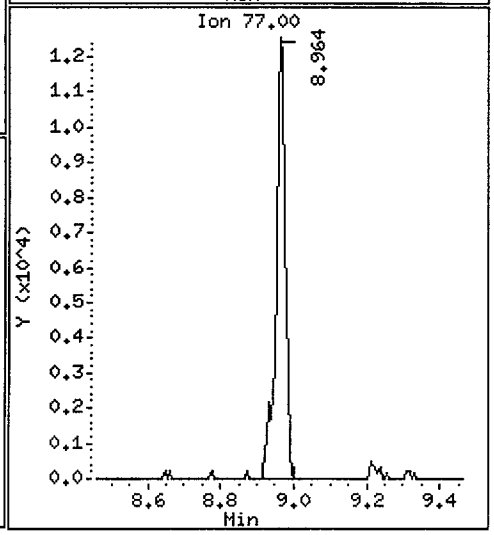


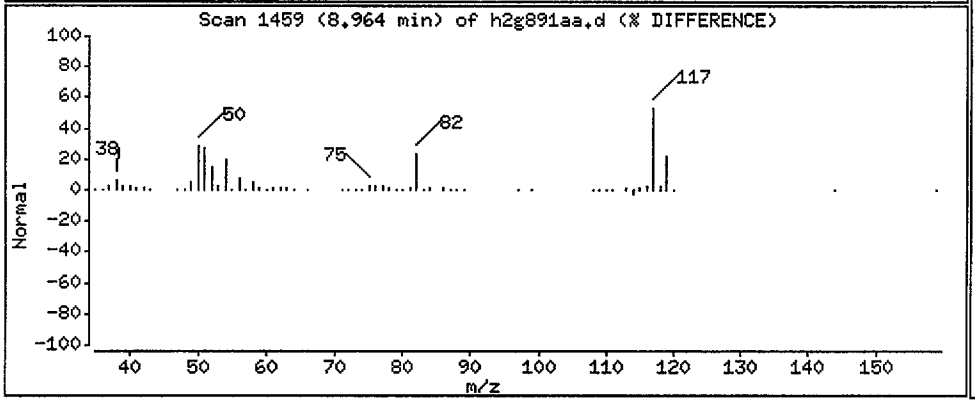












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

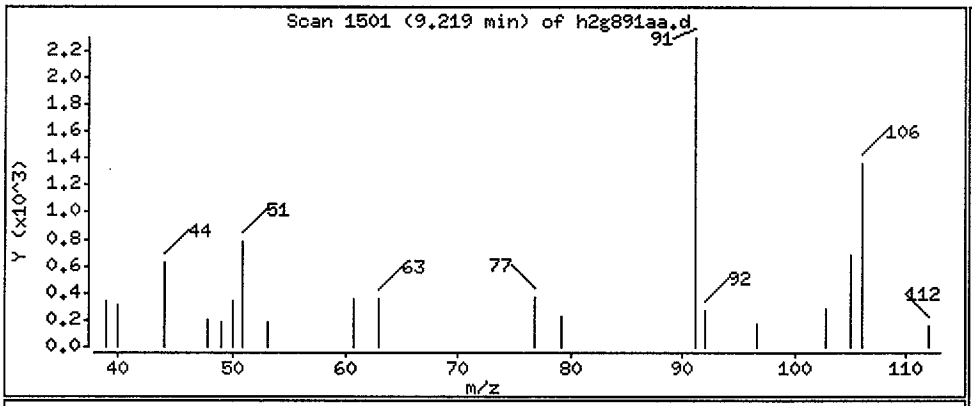
Operator: 22980

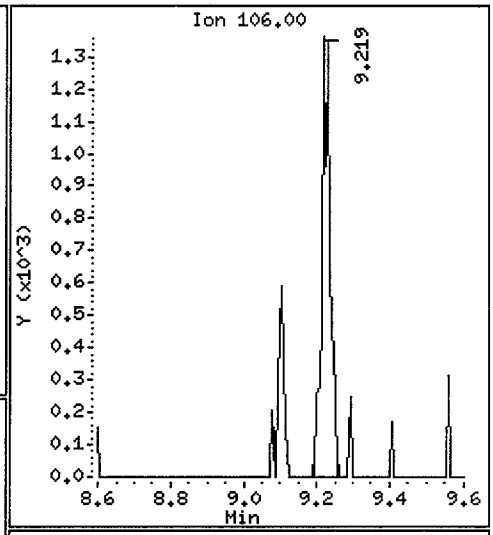
Column phase: J+W 624

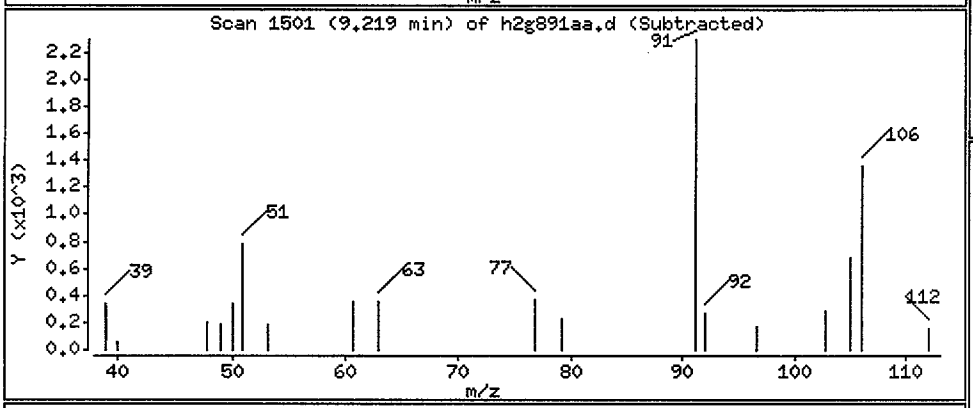
Column diameter: 0.18

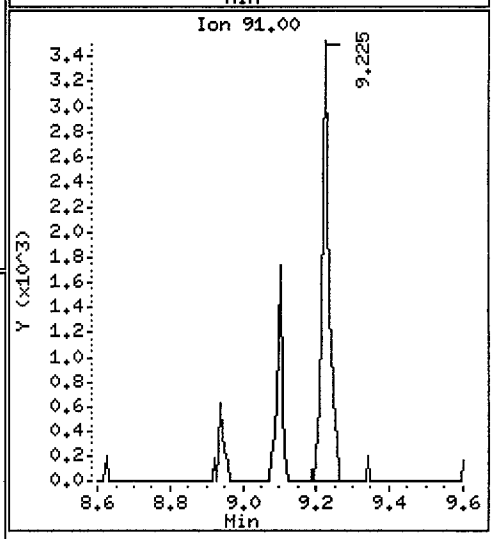
65 Ethylbenzene (ccc)

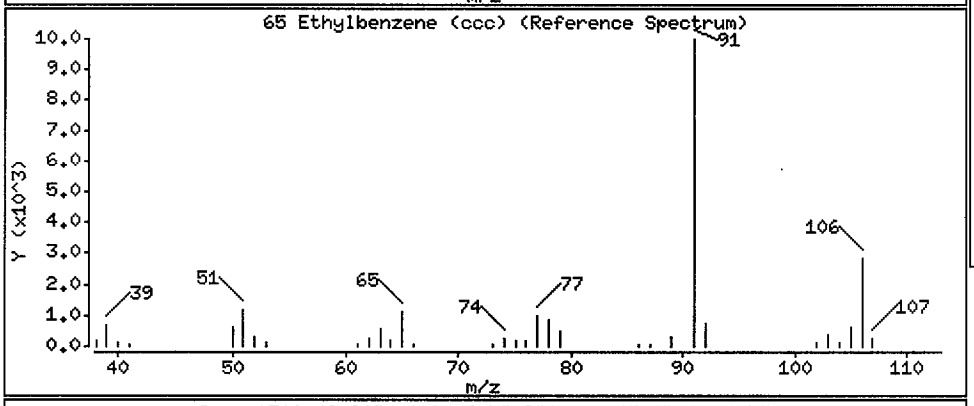
Concentration: 0.0016886 ug

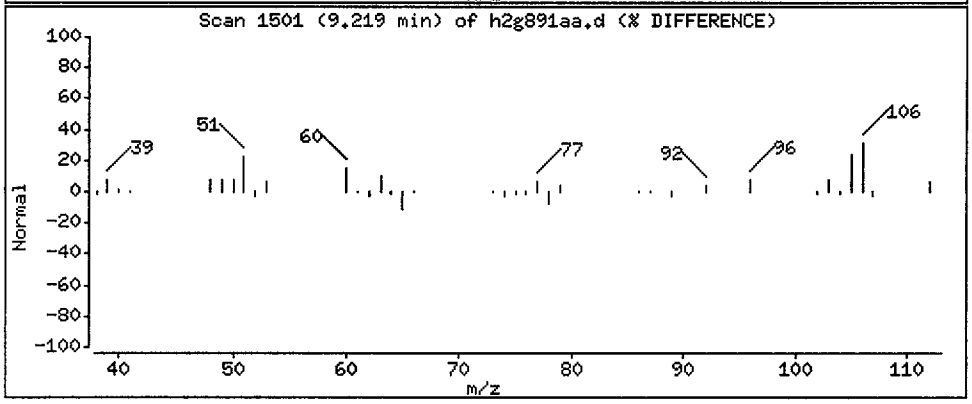












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

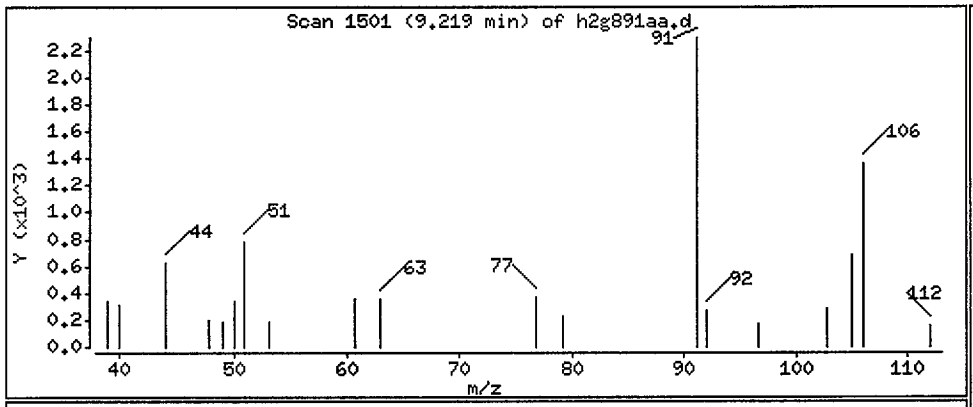
Operator: 22980

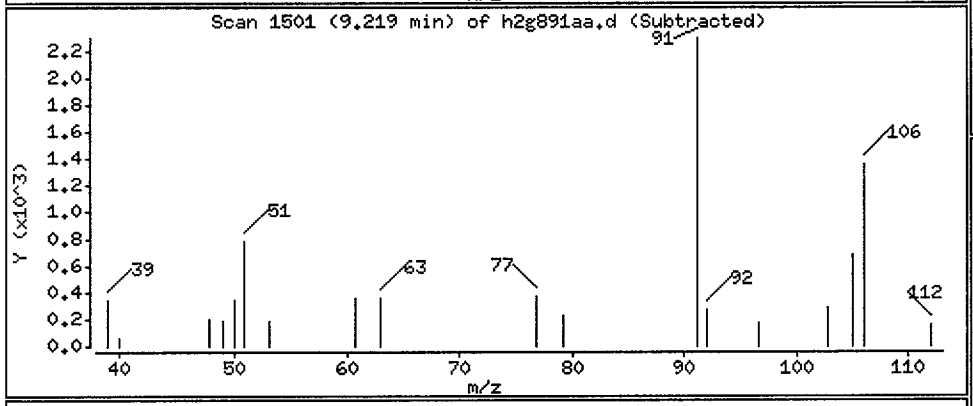
Column phase: J+W 624

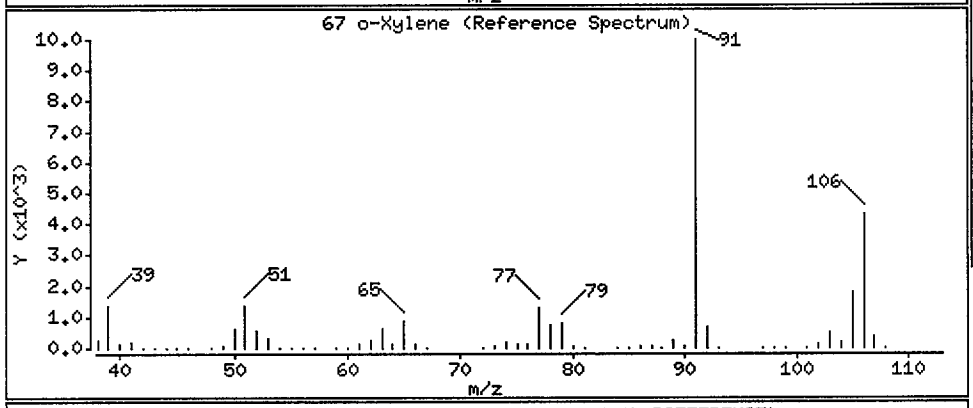
Column diameter: 0.18

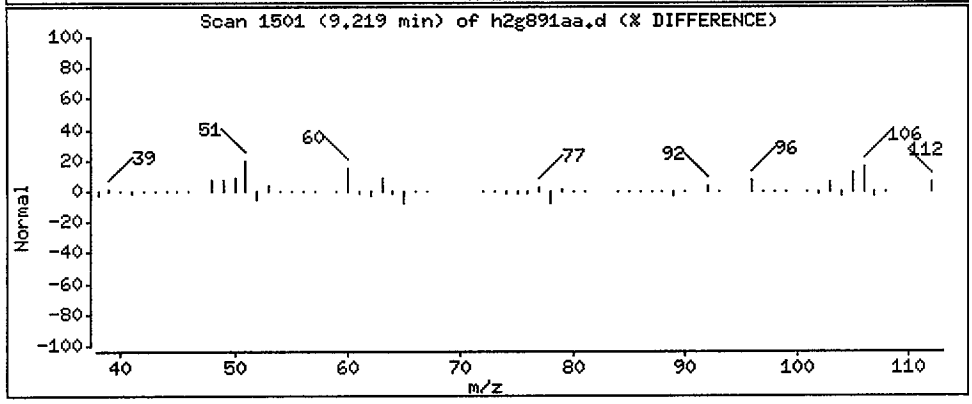
67 o-Xylene

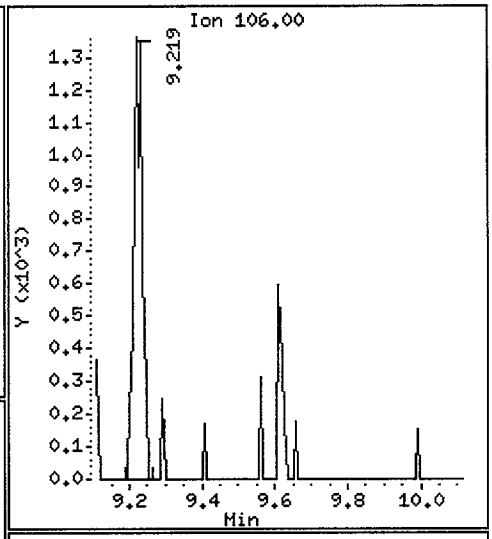
Concentration: 0.0015814 ug

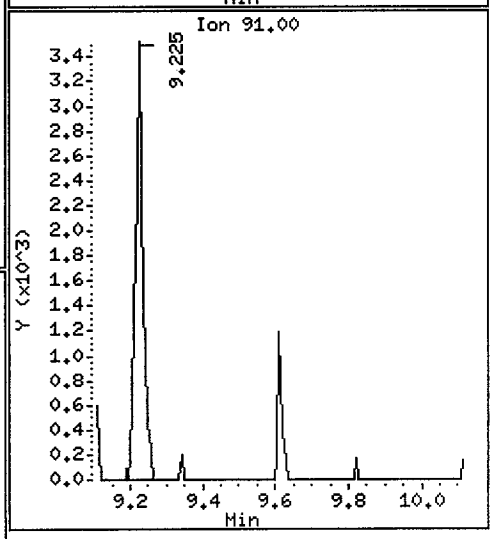












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

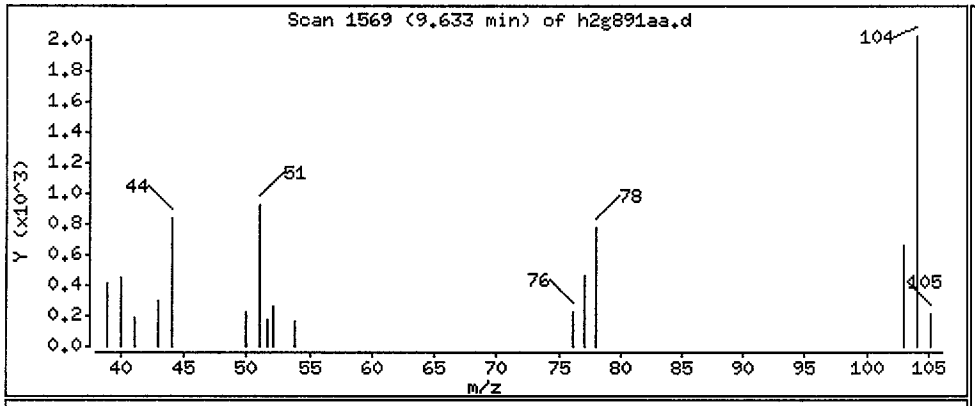
Operator: 22980

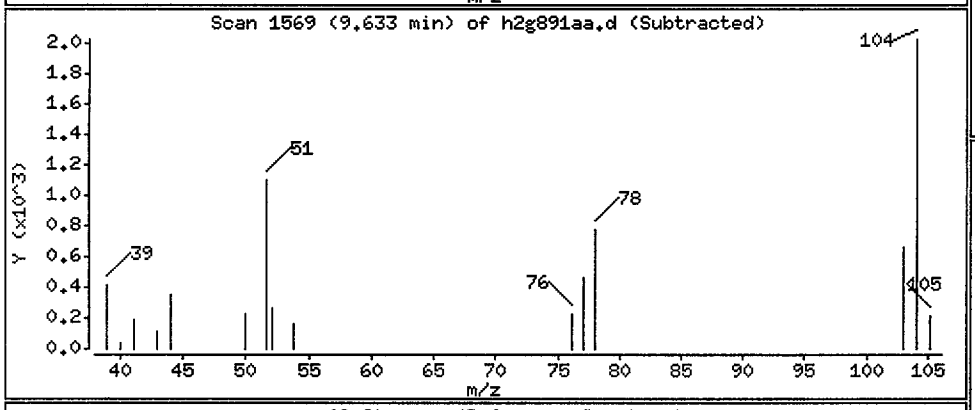
Column phase: J+W 624

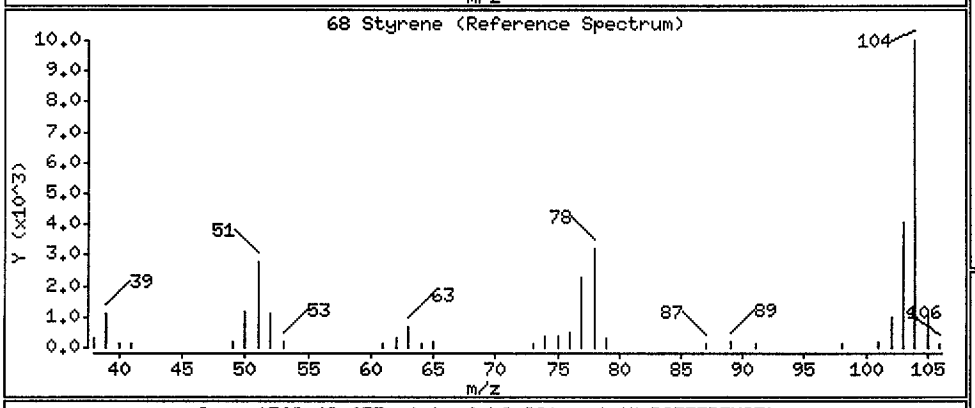
Column diameter: 0.18

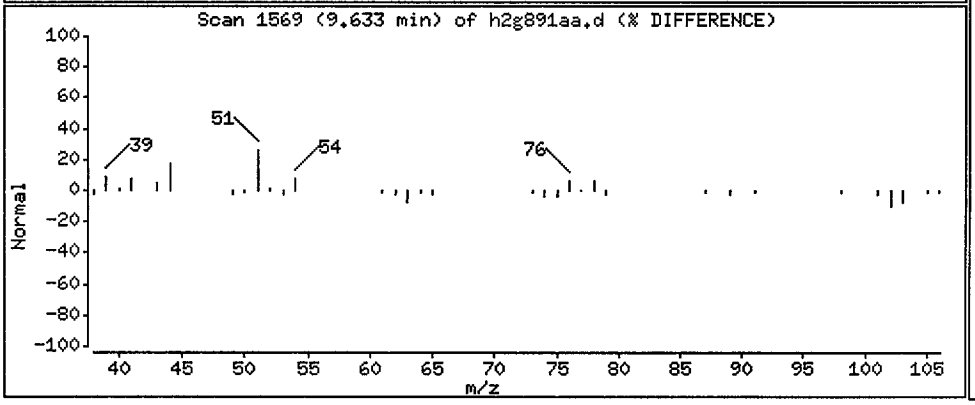
68 Styrene

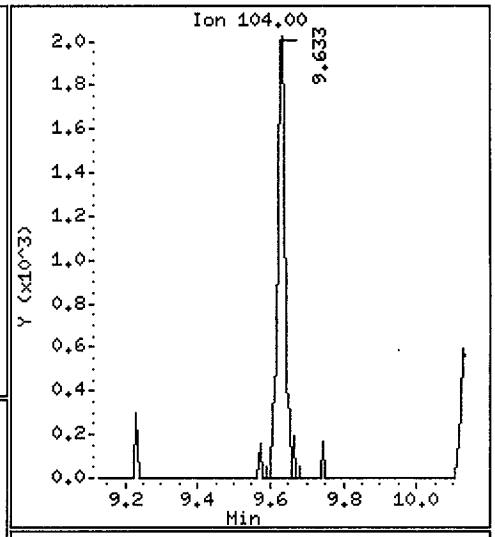
Concentration: 0.0015864 ug

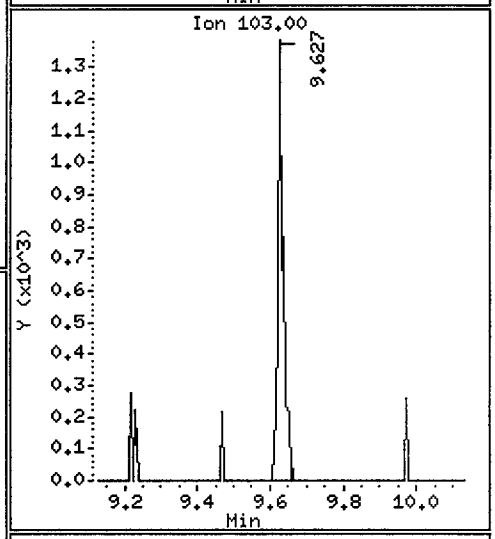


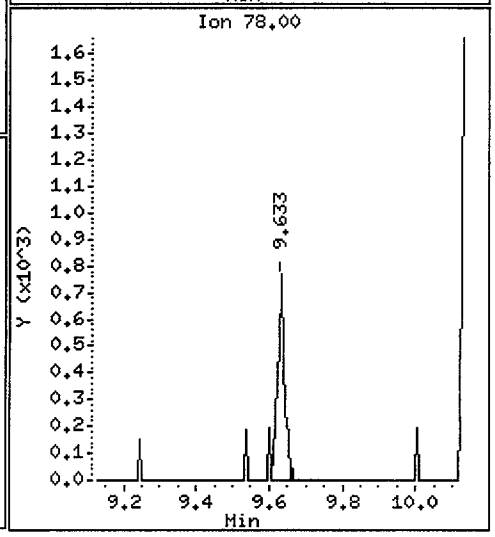












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

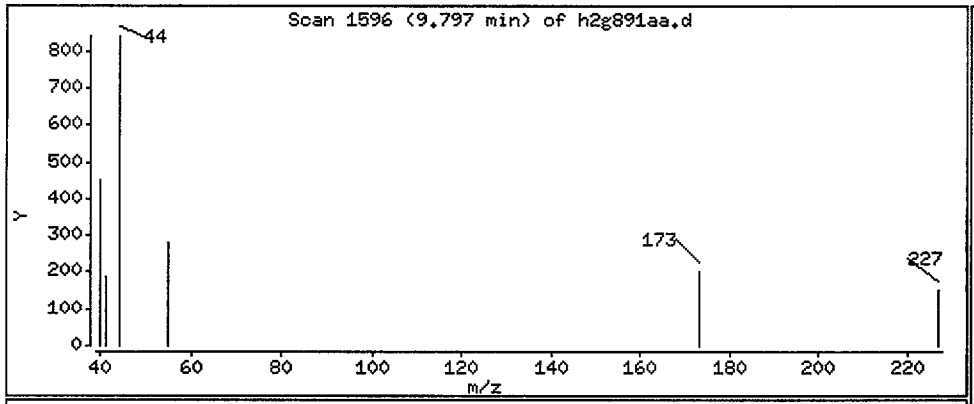
Operator: 22980

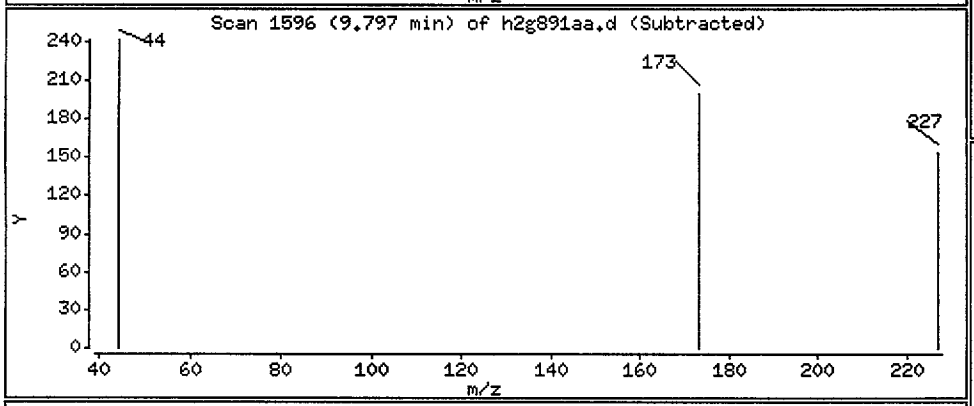
Column phase: J+W 624

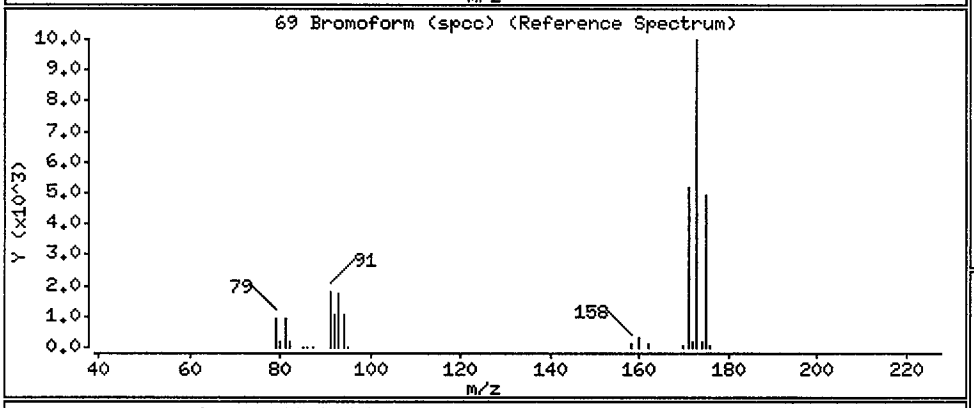
Column diameter: 0.18

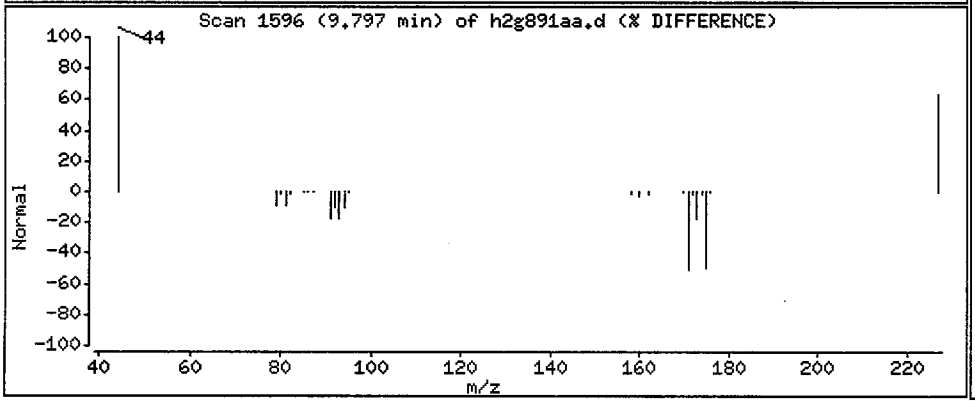
69 Bromoform (spcc)

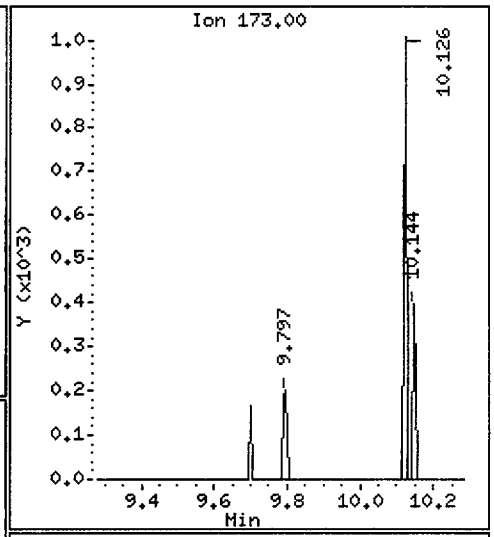
Concentration: 0.021393 ug

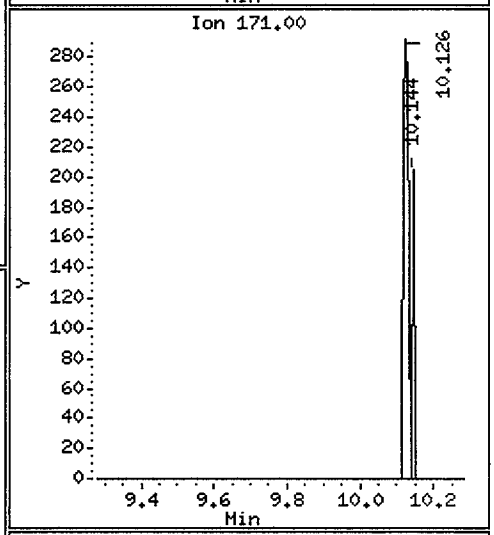


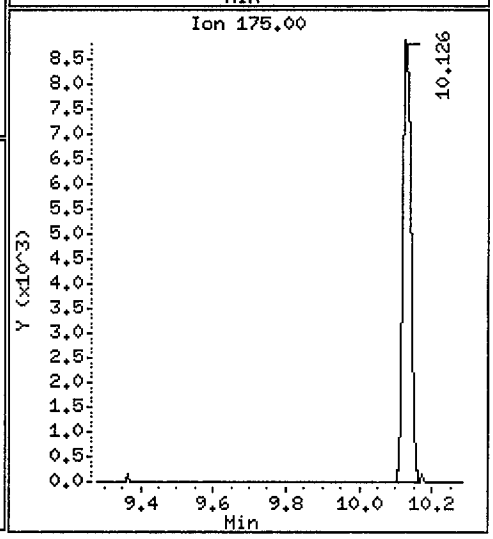












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

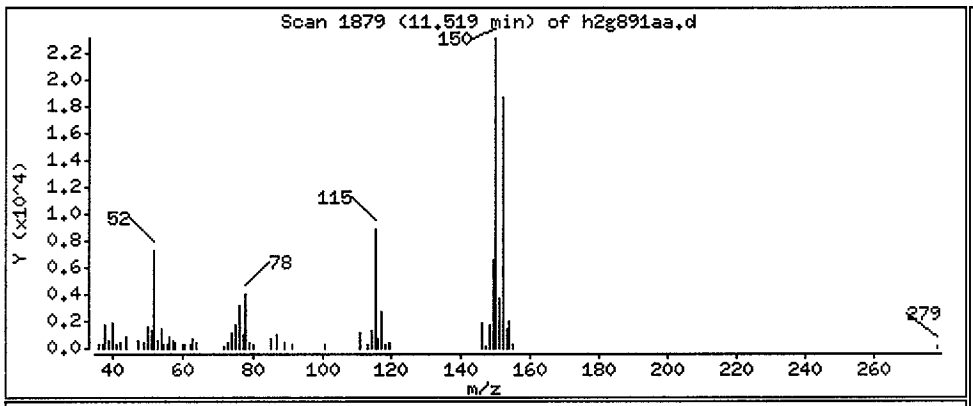
Operator: 22980

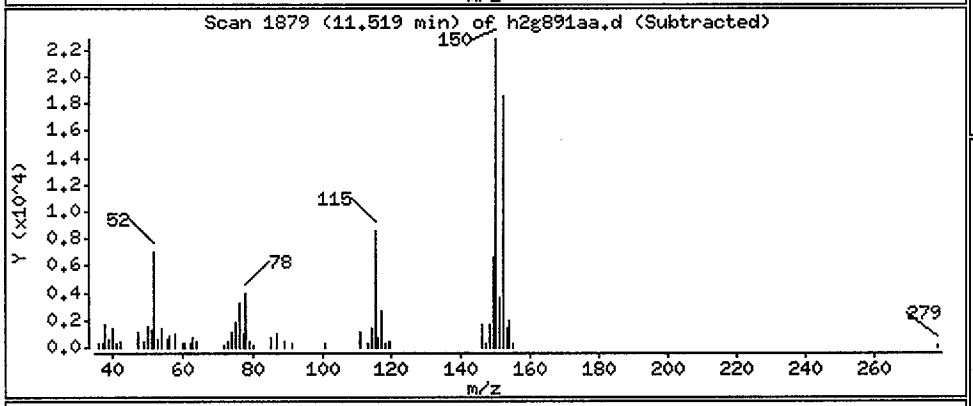
Column phase: J+W 624

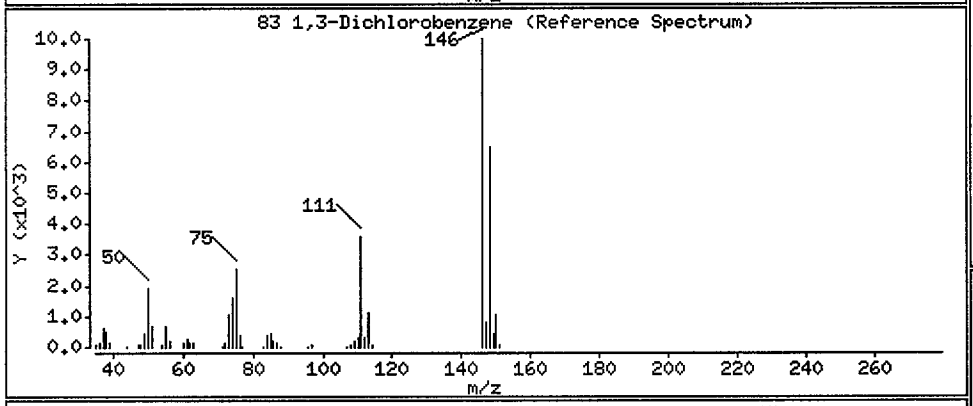
Column diameter: 0.18

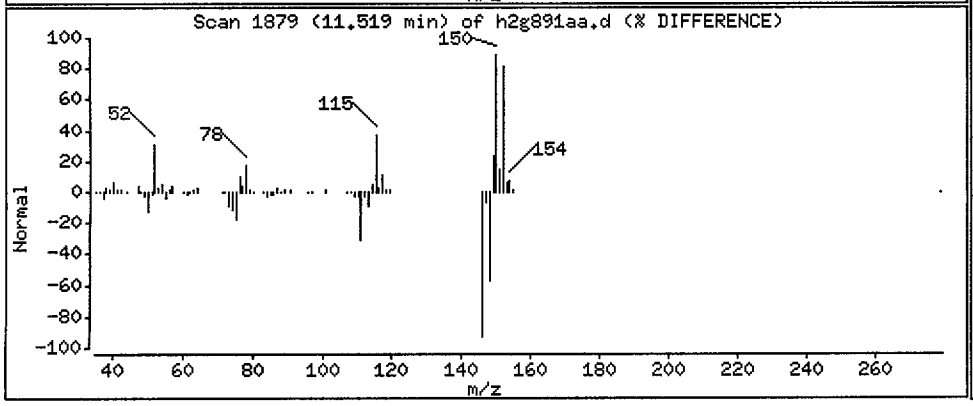
83 1,3-Dichlorobenzene

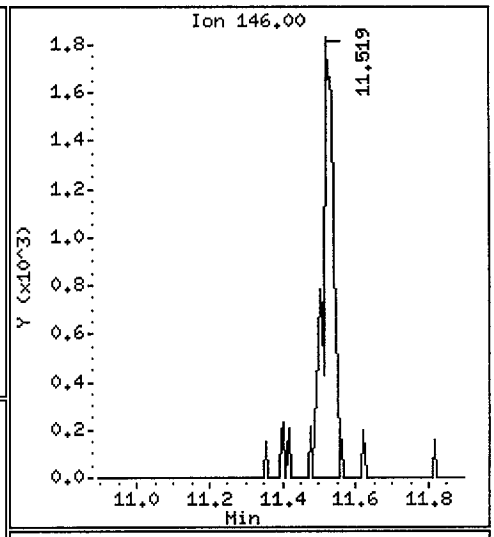
Concentration: 0.0023691 ug

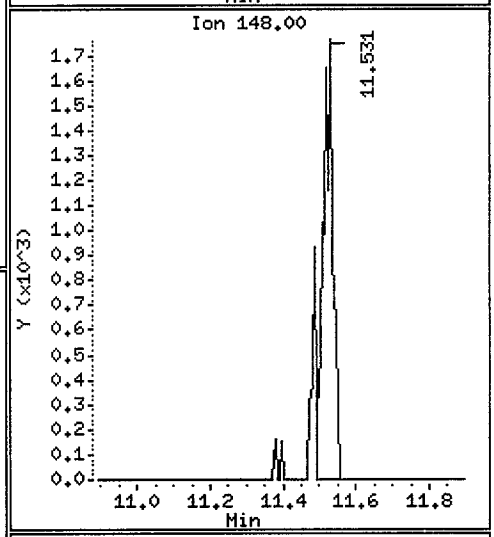


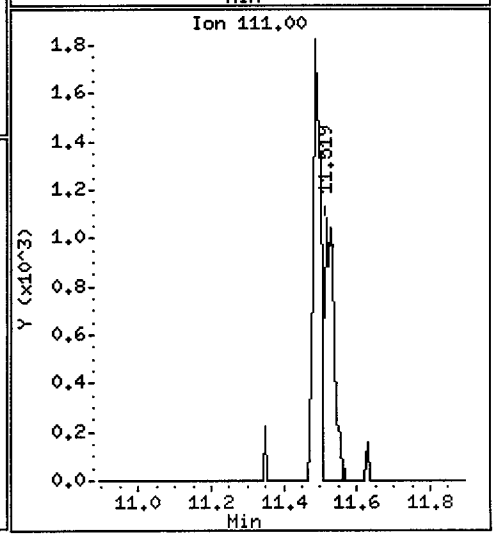












Data File: /chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

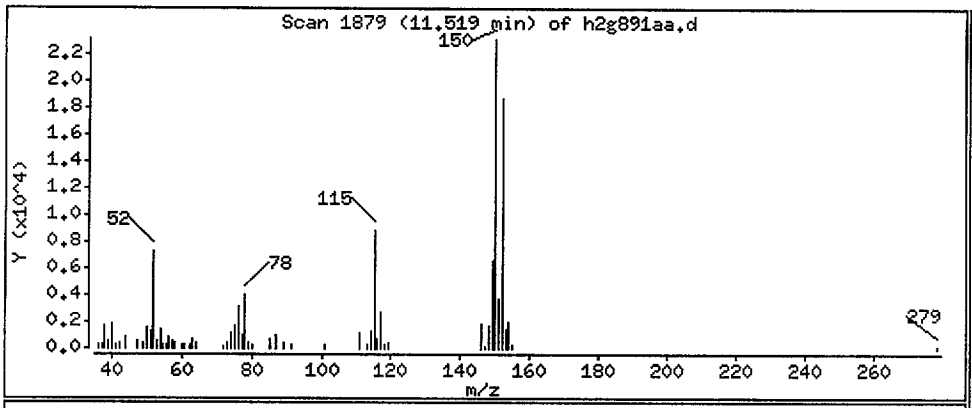
Operator: 22980

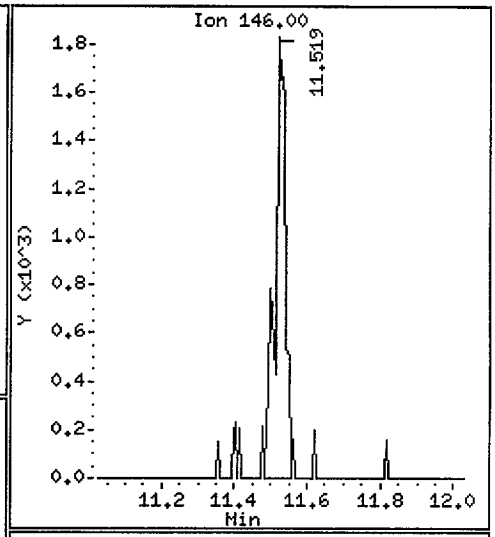
Column phase: J+W 624

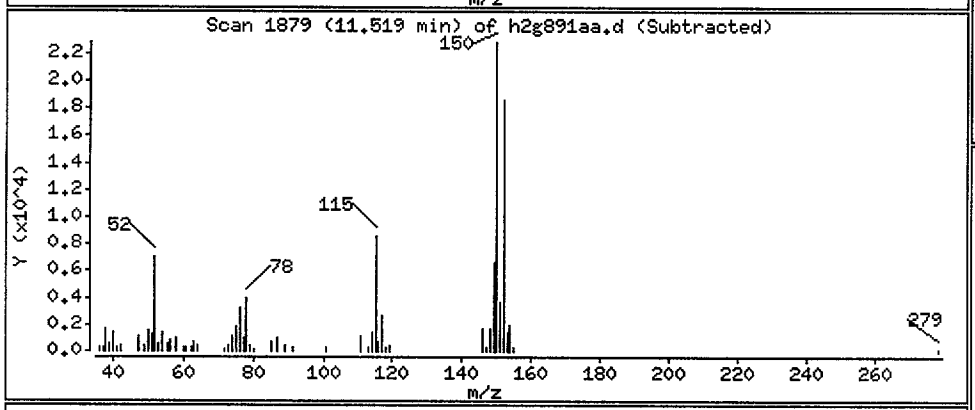
Column diameter: 0.18

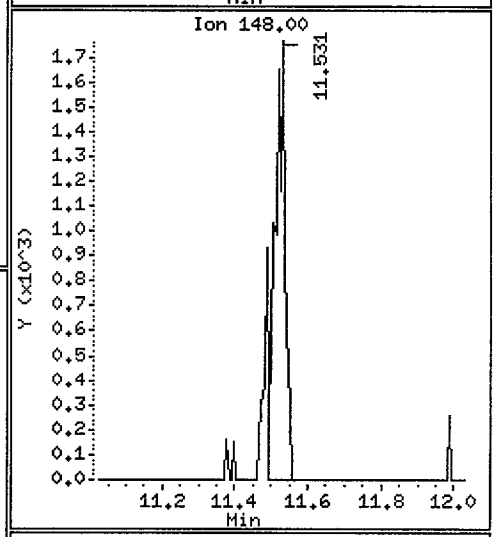
85 1,4-Dichlorobenzene

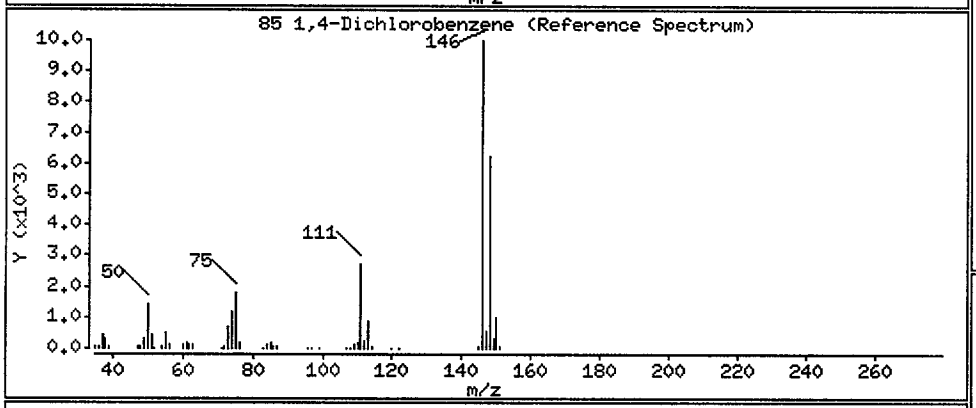
Concentration: 0.0025469 ug

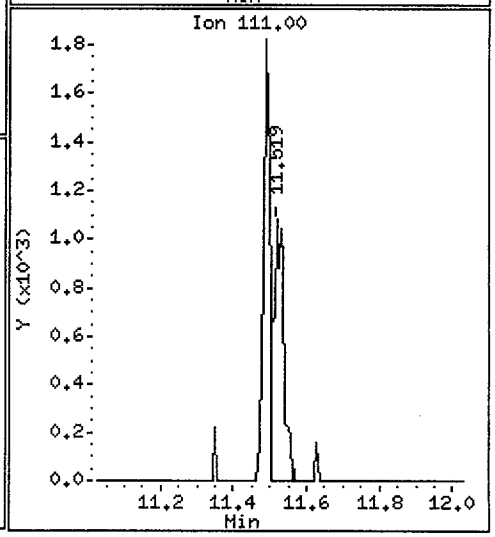


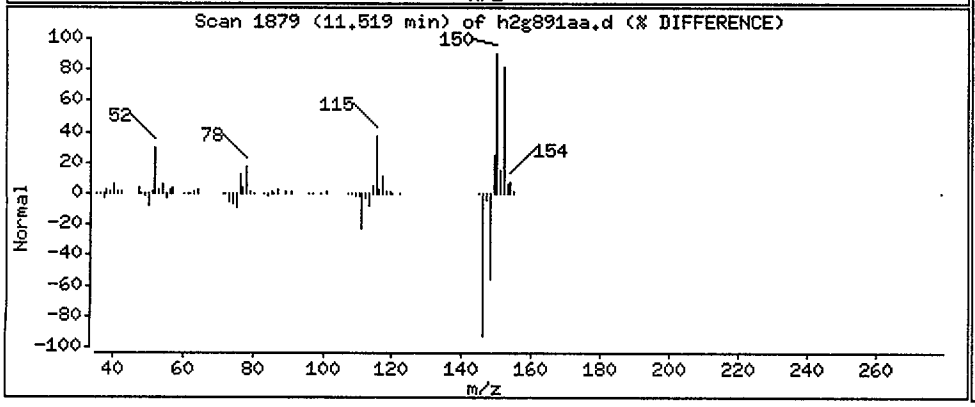












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g891aa.d
Report Date: 14-Apr-2006 16:58

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g891aa.d
Lab Smp Id: H2G891AA Client Smp ID: G-2911-R1-VOST PAIR
Inj Date : 07-APR-2006 17:54
Operator : 22980 Inst ID: mz.i
Smp Info : H2G891AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	8.939	1170531	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Oxalic acid, ~~isobutyl~~ pentyl ester UNK					CAS #: 1000309-37-0		
9.317	318357	2.71976564	0.067994	64	NIST05.l	68218	2

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

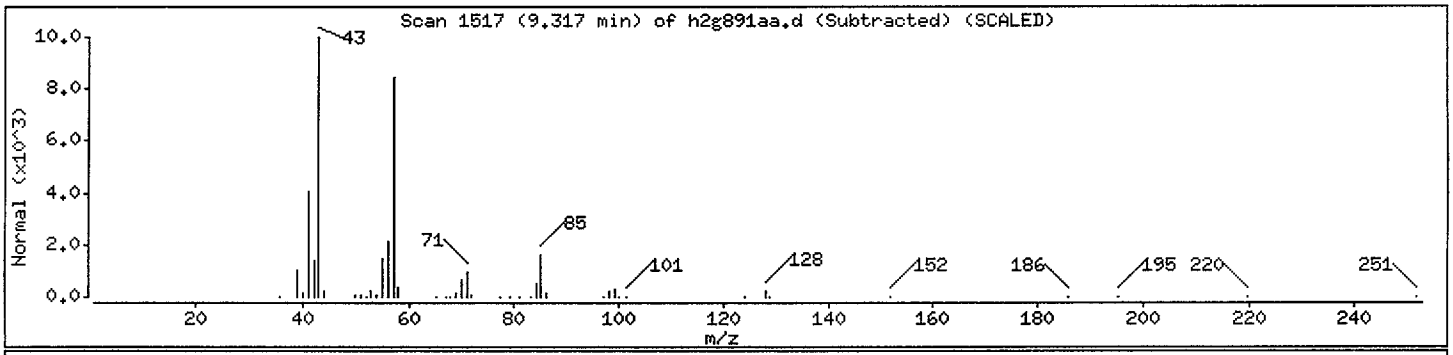
Sample Info: H2G891AA,1,0,,

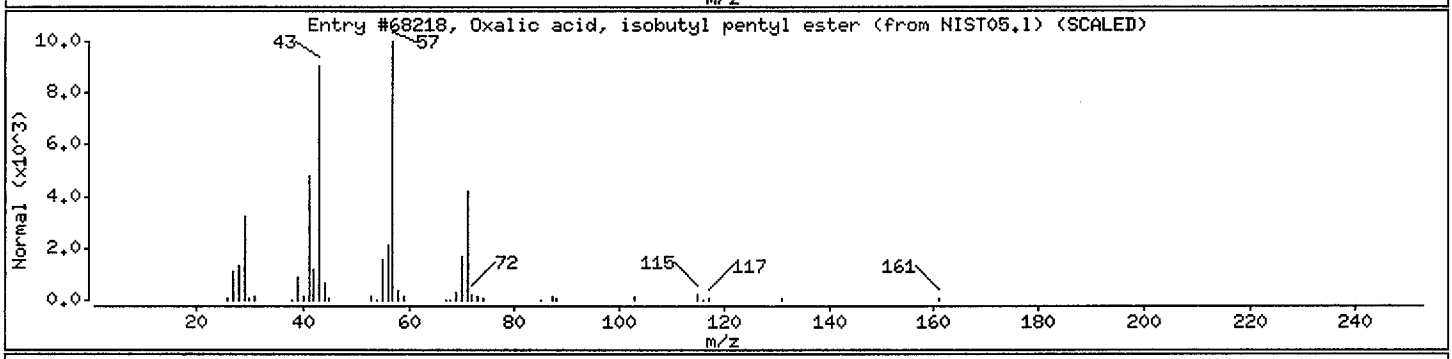
Operator: 22980

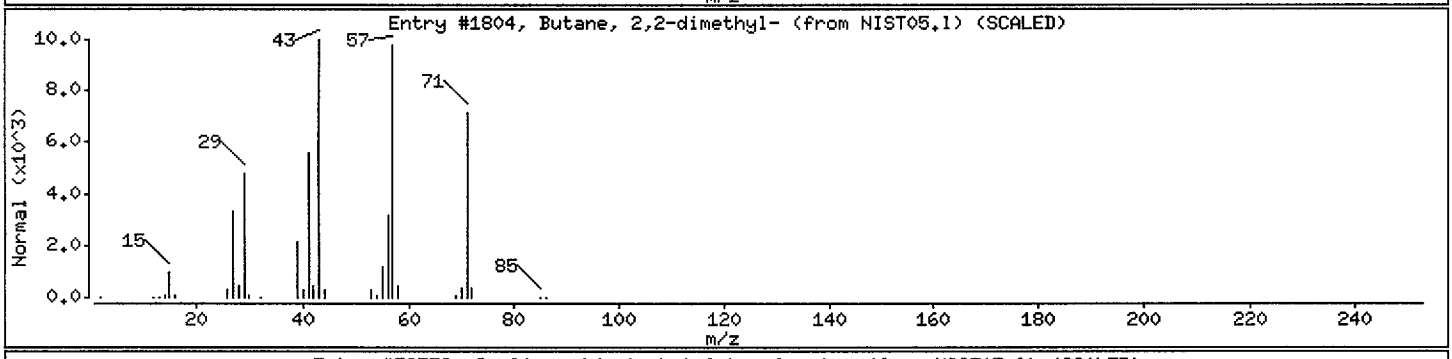
Column phase: J+W 624

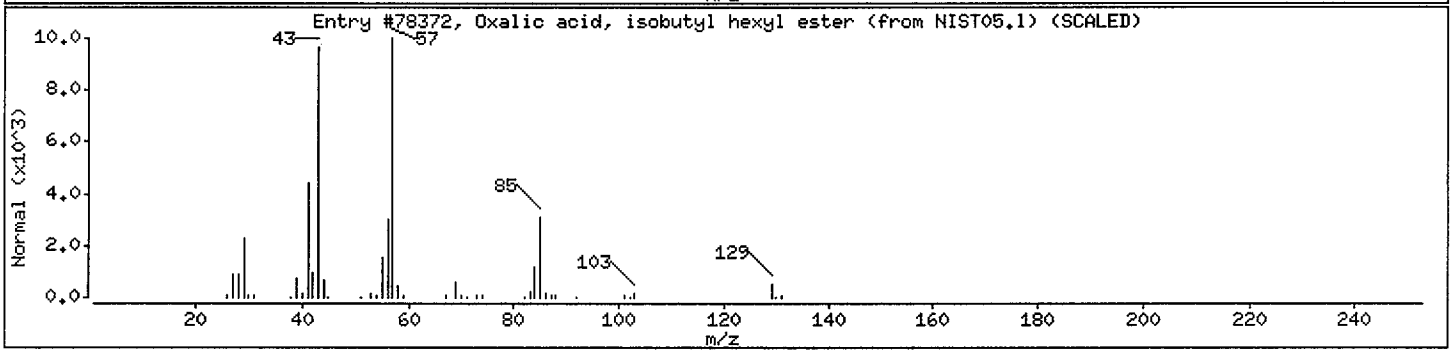
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxalic acid, isobutyl pentyl ester	1000309-37-0	NIST05.1	68218	64	C11H2004	216
Butane, 2,2-dimethyl-	75-83-2	NIST05.1	1804	53	C6H14	86
Oxalic acid, isobutyl hexyl ester	1000309-37-1	NIST05.1	78372	50	C12H2204	230









STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.45**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.049**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.023**	**0.010**	**ug**	**0.0016**
Bromoform	**0.091**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0076 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0034 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.5 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.063**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.016**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.026**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.68**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.088**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0080 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0046 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	70	(57 - 127)
Bromofluorobenzene	57	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-005 **Work Order #:** H2G9A1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.087 NJ M	10.088	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Report Date: 07-Apr-2006 12:48

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Lab Smp Id: H2G9A1AA
Client Smp ID: G-2912-R1-VOST PAIR
Inj Date : 07-APR-2006 12:32
Operator : 22980
Inst ID: mx.i
Smp Info : H2G9A1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.850	4.851	(1.000)	1228077	10.0000	
* 2 Chlorobenzene-d5	119	7.588	7.582	(1.000)	240036	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.745	10.746	(1.000)	257667	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	152197	7.28922	0.18223
$ 5 1,2-Dichloroethane-d4	65	4.552	4.553	(0.939)	118255	7.26584	0.18164
$ 6 Toluene-d8	98	6.250	6.250	(0.824)	820686	6.98325	0.17458
$ 7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	175437	5.74252	0.14356
M 9 Xylene (total)	106				21205	0.39484	0.0098710
11 Chloromethane (spcc)	50	1.261	1.262	(0.260)	4016	0.07019	0.0017548
21 Acetone	43	2.374	2.381	(0.490)	31271	17.9783	0.44946
23 Carbon Disulfide	76	2.496	2.497	(0.515)	28448	0.30396	0.0075990
26 Methylene Chloride	84	2.746	2.746	(0.566)	19576	1.03105	0.025776
33 *Vinyl Acetate	86	3.257	3.421	(0.671)	1199	0.85830	~~0.021457~~
34 2,2-Dichloropropane	77	3.859	3.853	(0.796)	5357	0.09938	~~0.0024846~~
36 2-Butanone	43	3.871	3.871	(0.798)	13121	4.83629	~~0.12091~~
38 *THF	42	4.120	4.109	(0.849)	1663	1.00043	0.025011
39 Chloroform (ccc)	83	4.139	4.139	(0.853)	30377	0.65082	0.016271
41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	6058	0.13742	0.0034356
42 1,1-Dichloropropene	75	4.607	4.437	(0.950)	4758	0.09787	~~0.0024468~~
43 Benzene	78	4.607	4.607	(0.950)	244482	1.96569	0.049142

4/19/06

5

Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Report Date: 07-Apr-2006 12:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
44 1,2-Dichloroethane	62	4.613	4.620	(0.951)	2670	0.12759	~~0.0031897~~
45 Trichloroethene	130	5.173	5.173	(1.066)	10660	0.31944	0.0079859
49 Bromodichloromethane	83	5.605	5.605	(1.156)	23809	0.91373	0.022843
51 cis-1,3-Dichloropropene	75	6.311	6.007	(1.301)	3839	0.12581	~~0.0031451~~
52 4-Methyl-2-pentanone	43	6.250	6.147	(1.288)	6240	0.96041	~~0.024010~~
53 Toluene (ccc)	91	6.311	6.311	(0.832)	497645	3.53935	0.088484
54 trans-1,3-Dichloropropene	75	6.311	6.506	(0.832)	3839	0.15579	~~0.0038947~~
56 1,1,2-Trichloroethane	97	6.815	6.670	(0.898)	7201	0.64839	~~0.016210~~
57 Tetrachloroethene	164	6.822	6.816	(0.899)	822855	27.2372	0.68093
59 2-Hexanone	43	6.712	6.907	(0.885)	4122	0.87737	~~0.021934~~
60 Chlorodibromomethane	129	7.034	7.035	(0.927)	34729	2.52375	0.063094
61 1,2-Dibromoethane	107	7.612	7.138	(1.003)	1511	0.14609	~~0.0036523~~
62 Chlorobenzene (spcc)	112	7.618	7.607	(1.004)	10037287	139.065	3.4766(A)
64 Ethylbenzene (ccc)	106	7.837	7.716	(1.033)	10602	0.21359	~~0.0053397~~
65 m&p-Xylene	106	7.837	7.838	(1.033)	10602	0.18225	0.0045562
66 o-Xylene	106	7.837	8.251	(1.033)	10602	0.21259	~~0.0053147~~
68 Bromoform (spcc)	173	8.464	8.464	(1.115)	24198	3.63851	0.090963
69 Isopropylbenzene	105	8.689	8.689	(1.145)	7282	0.04553	0.0011381
73 1,2,3-Trichloropropane	110	9.237	9.115	(0.860)	3703	1.53955	~~0.038489~~
80 1,2,4-Trimethylbenzene	105	10.088	10.125	(0.939)	112612	1.35461	~~0.033865~~
81 sec-Butylbenzene	105	10.088	10.435	(0.939)	112612	0.76678	0.019170
82 1,3-Dichlorobenzene	146	10.800	10.612	(1.005)	1848	0.04258	~~0.0010644~~
90 Napthalene	128	13.945	13.946	(1.298)	3333	0.29817	0.0074543

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Report Date: 07-Apr-2006 12:48

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g9a1aa.d
Lab Smp Id: H2G9A1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-2912-R1-VOST PAIR
Level: LOW
Sample Type: AIR
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1228077	6.86
2 Chlorobenzene-d5	214194	107097	428388	240036	12.06
3 1,4 Dichlorobenze	242601	121300	485202	257667	6.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	-0.01
2 Chlorobenzene-d5	7.58	7.08	8.08	7.59	0.08
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.00

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.

Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Report Date: 07-Apr-2006 12:48

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G9A1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2912-R1-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

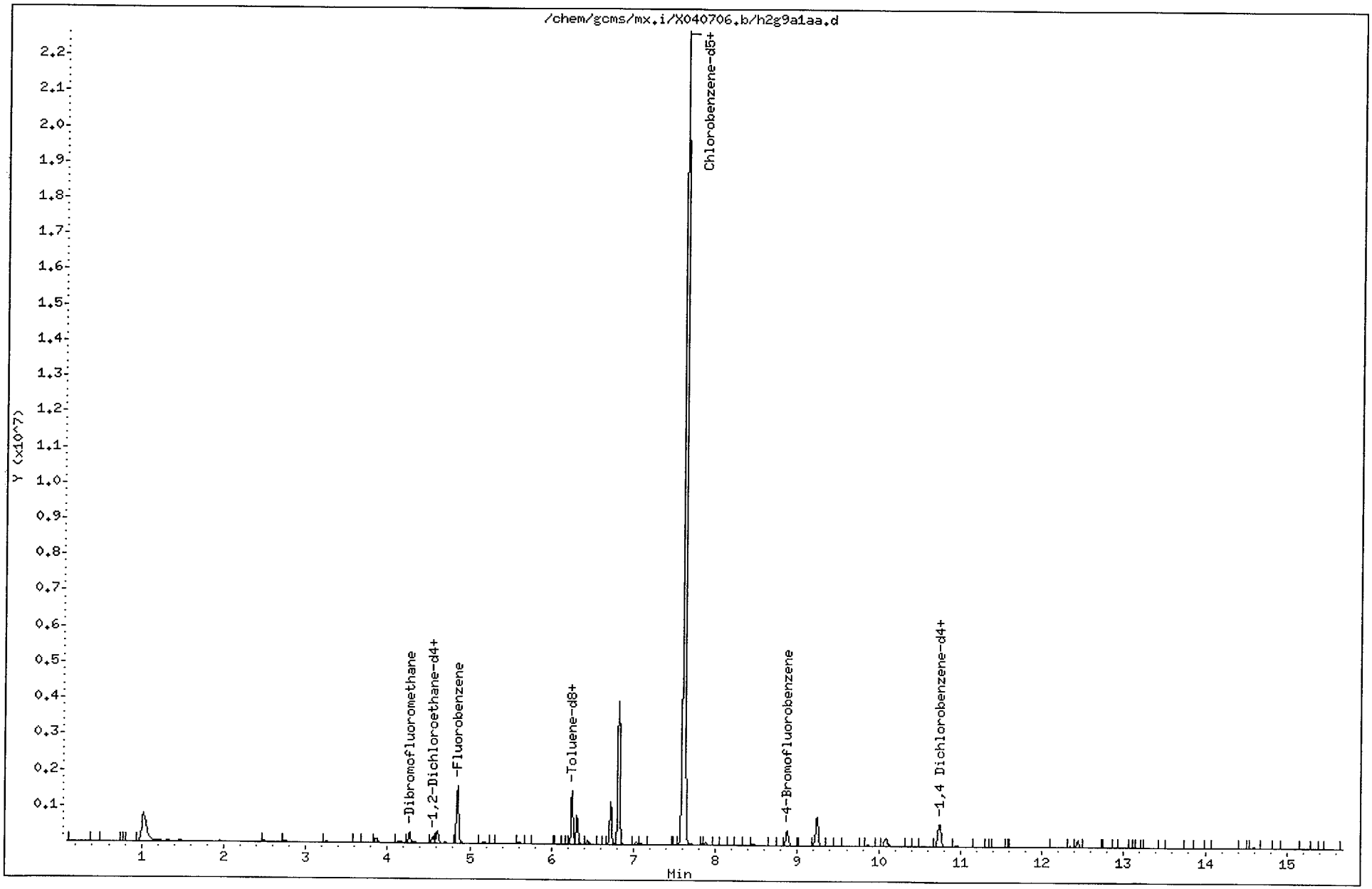
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18223	72.89	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18164	72.66	50-150
$ 6 Toluene-d8	0.25000	0.17458	69.83	50-150
$ 7 4-Bromofluorobenze	0.25000	0.14356	57.43	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Date : 07-APR-2006 12:32
Client ID: G-2912-R1-VOST PAIR
Sample Info: H2G9A1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

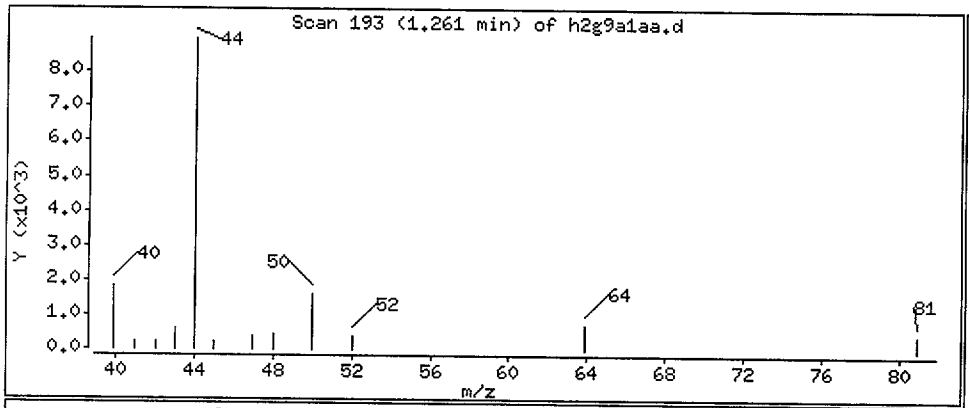
Operator: 22980

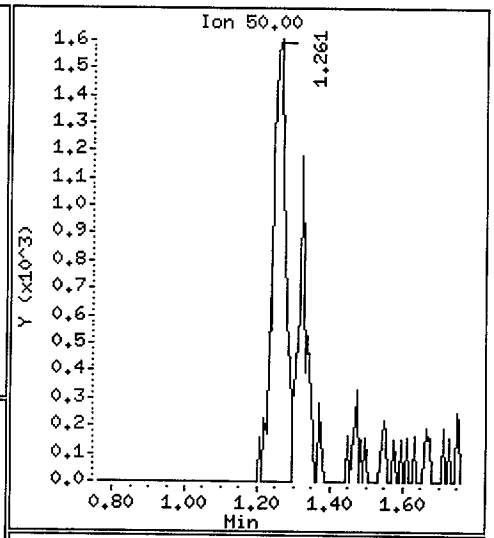
Column phase: J+W 624

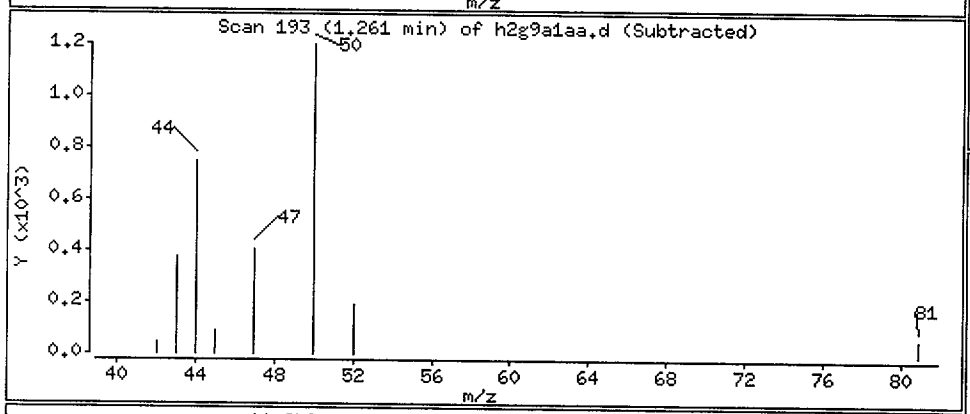
Column diameter: 0.18

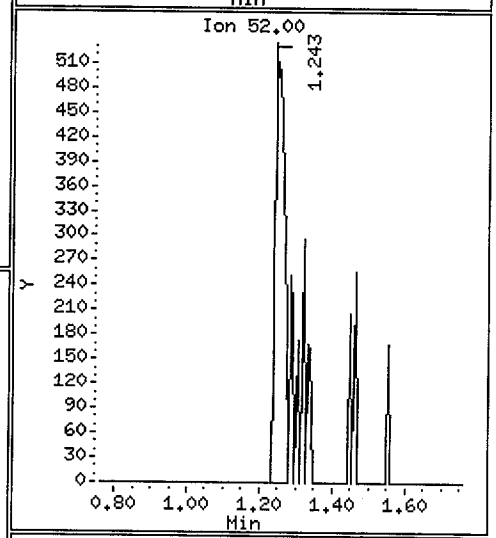
11 Chloromethane (spcc)

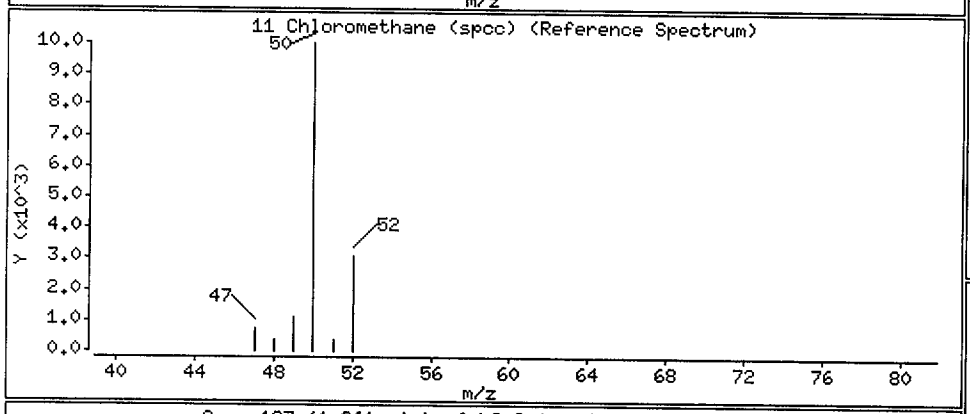
Concentration: 0.0017548 ug

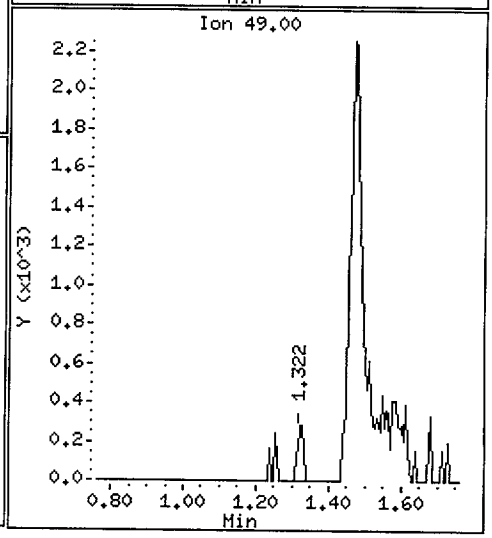


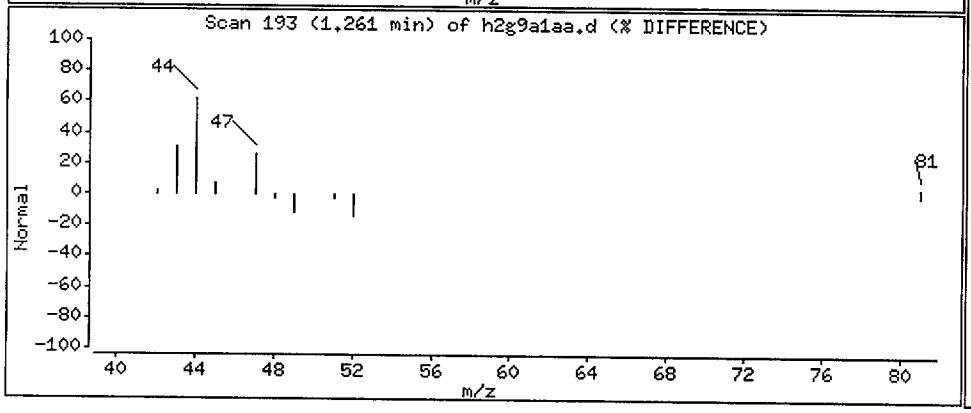












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

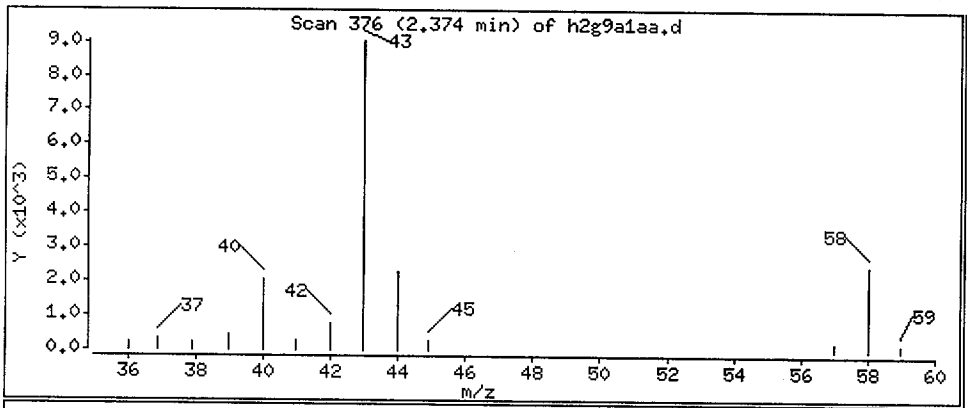
Operator: 22980

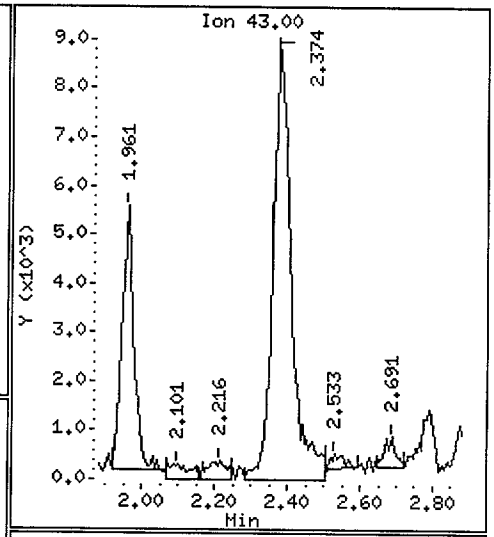
Column phase: J+W 624

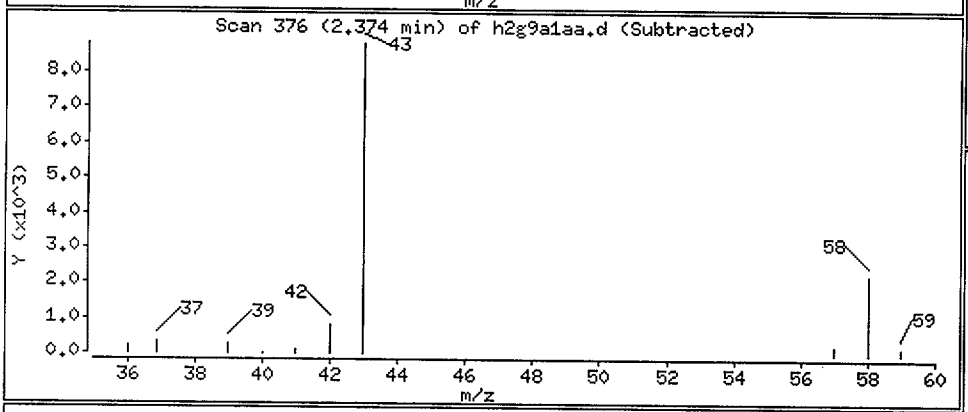
Column diameter: 0.18

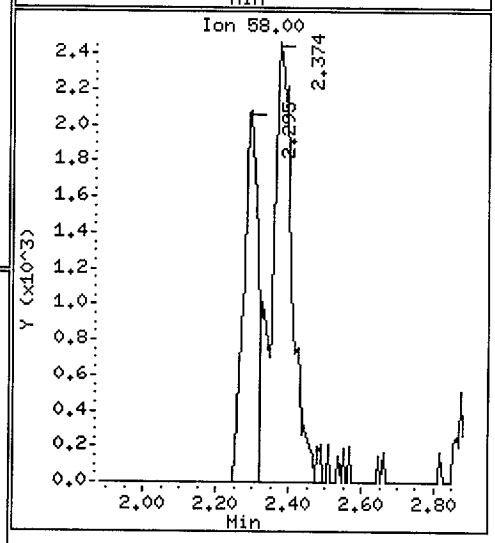
21 Acetone

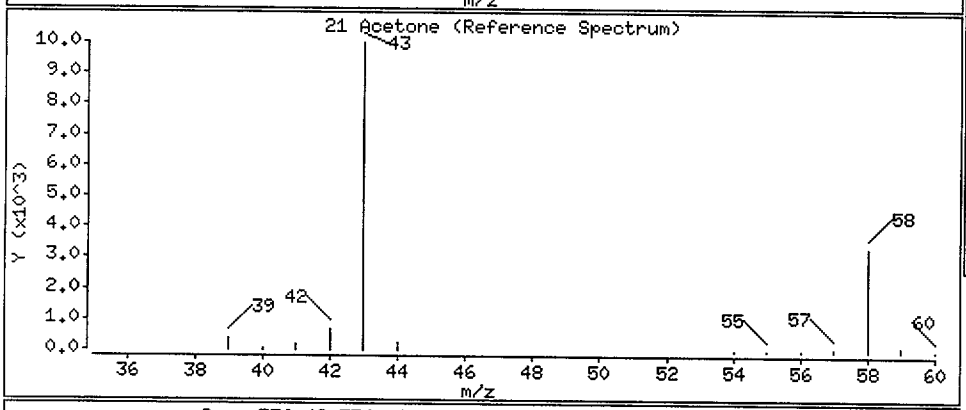
Concentration: 0.44946 ug

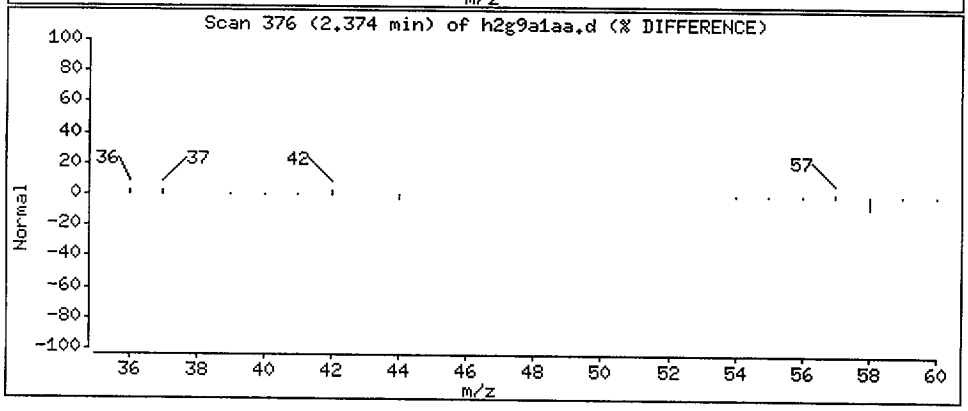












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

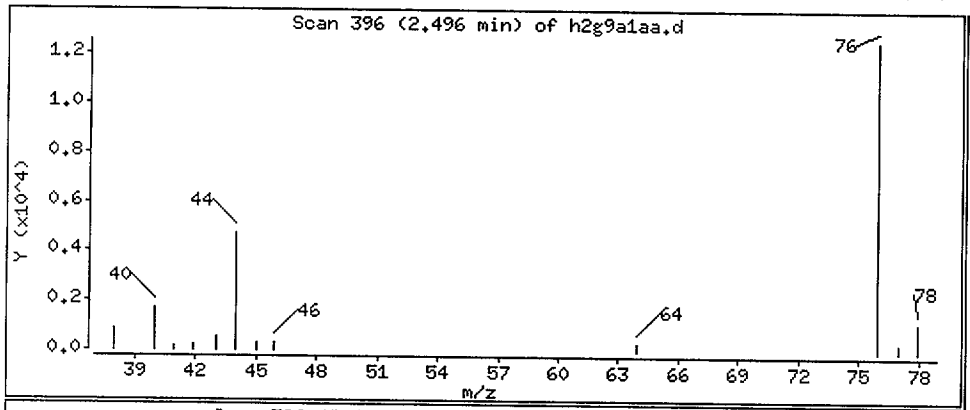
Operator: 22980

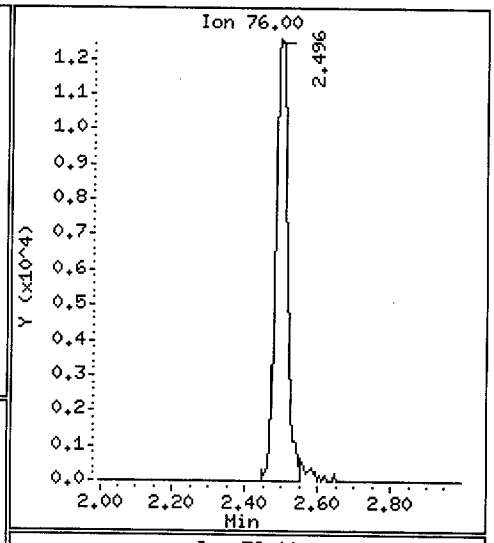
Column phase: J+W 624

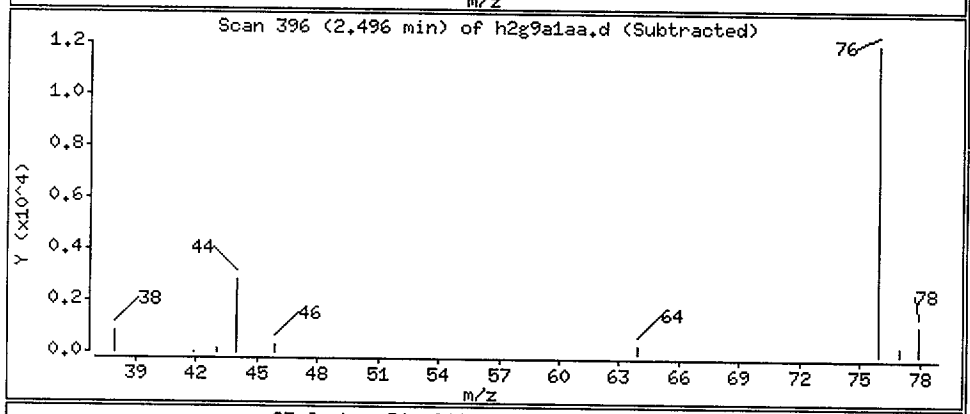
Column diameter: 0.18

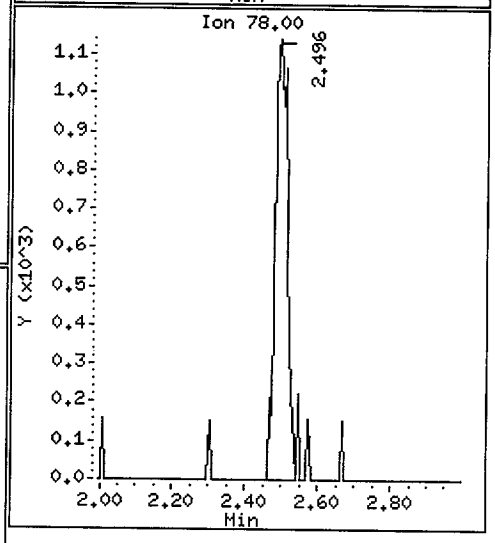
23 Carbon Disulfide

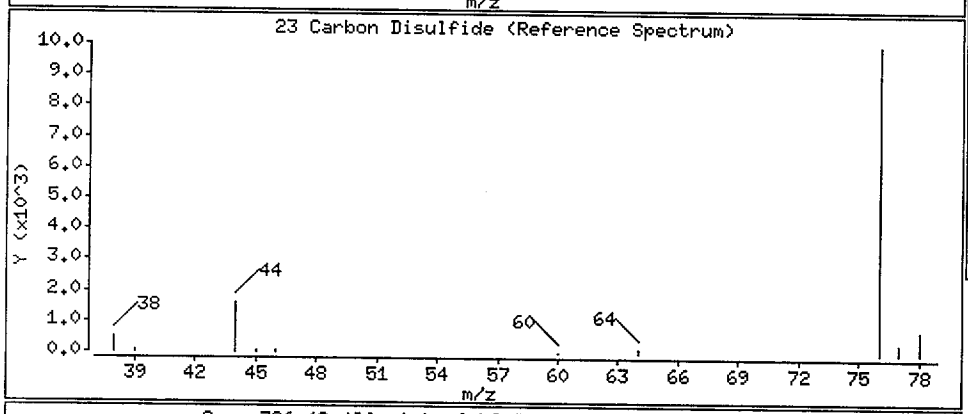
Concentration: 0.0075990 ug

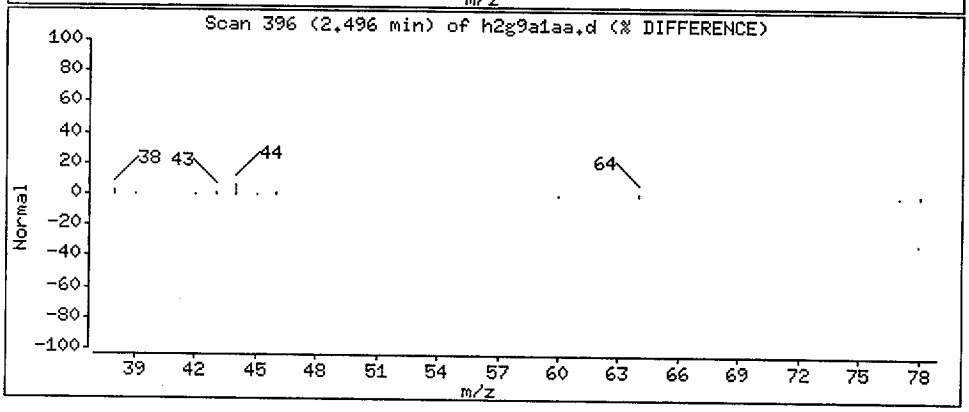












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

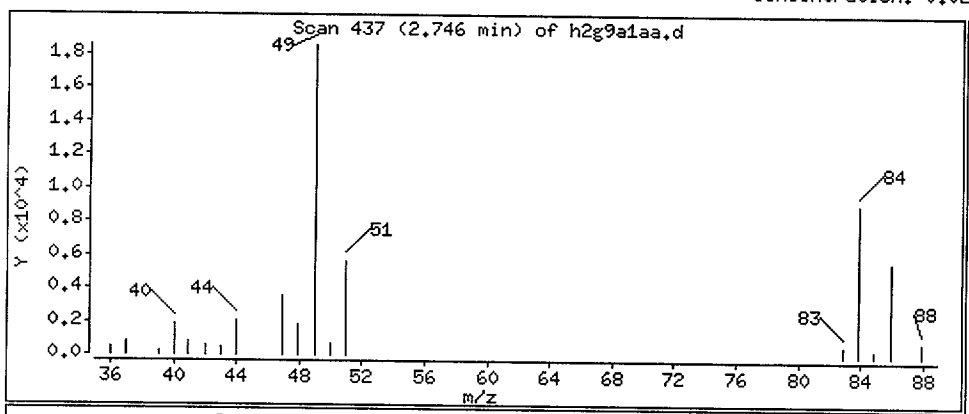
Operator: 22980

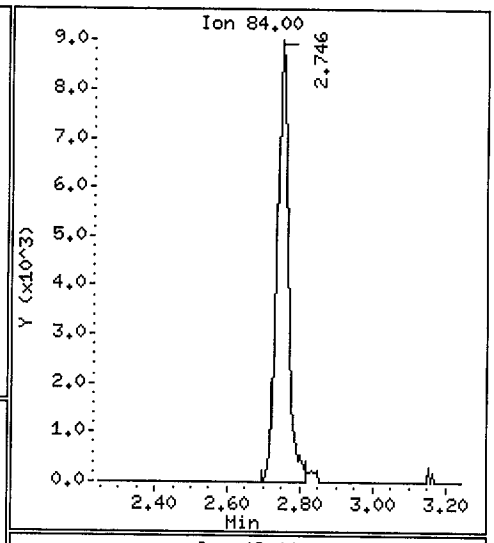
Column phase: J+W 624

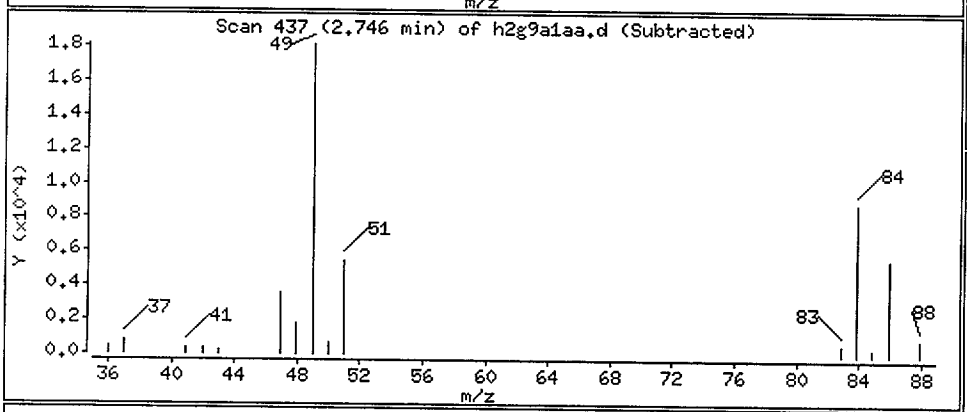
Column diameter: 0.18

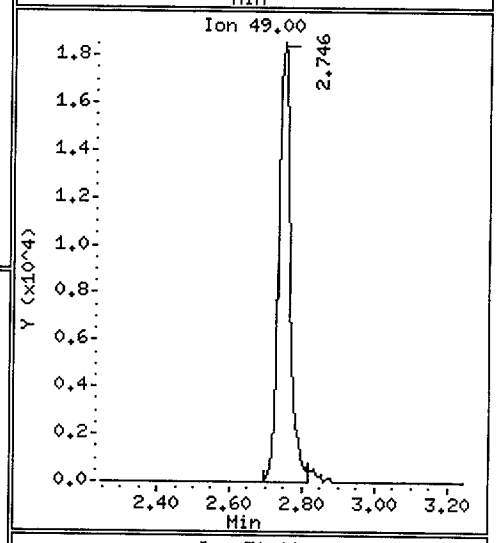
26 Methylene Chloride

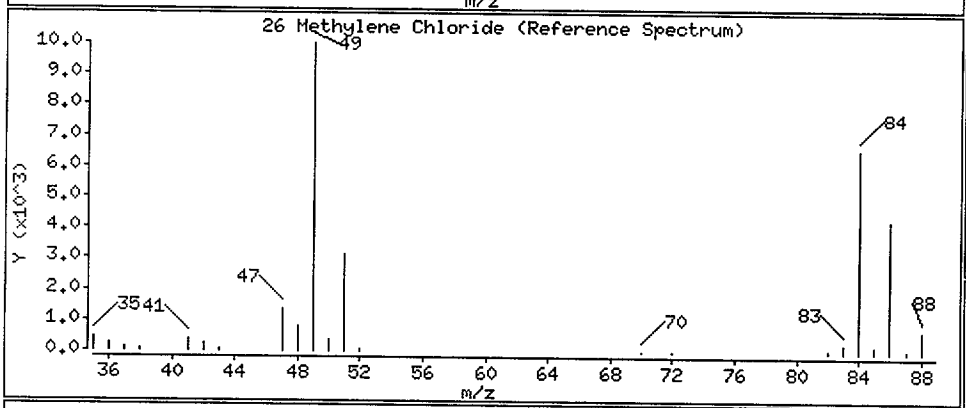
Concentration: 0.025776 ug

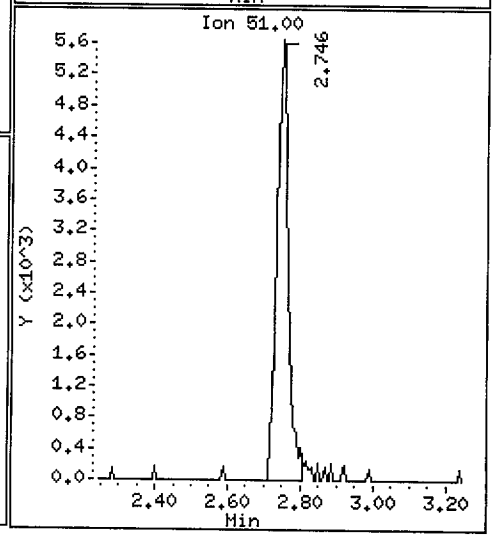


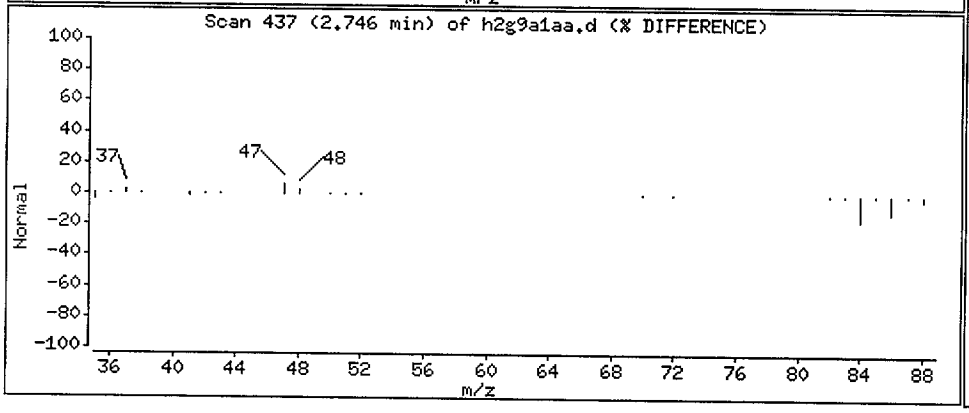












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

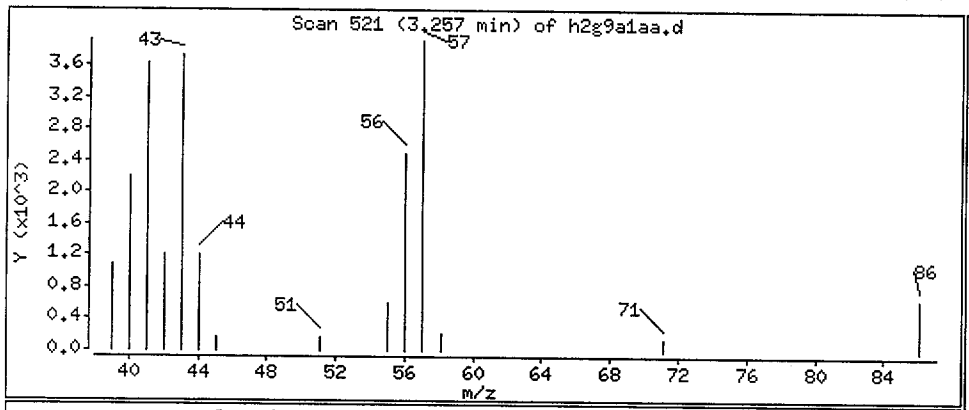
Operator: 22980

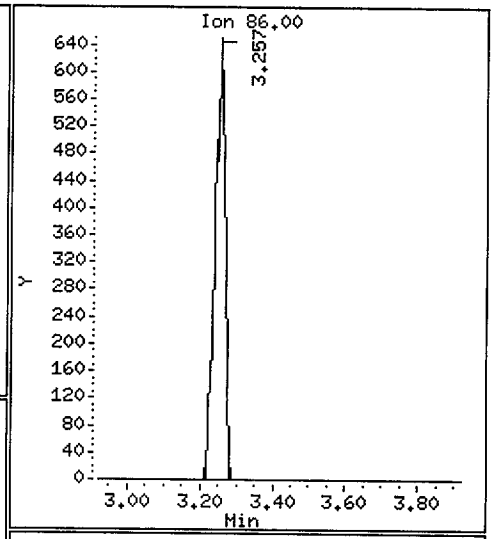
Column phase: J+W 624

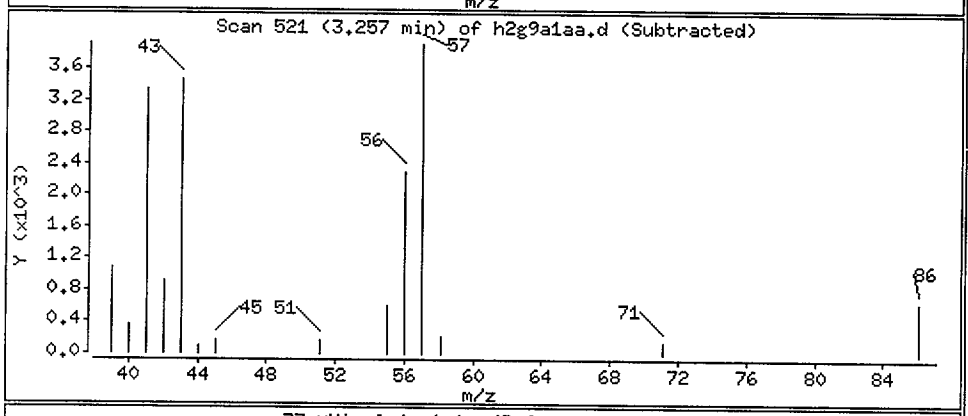
Column diameter: 0.18

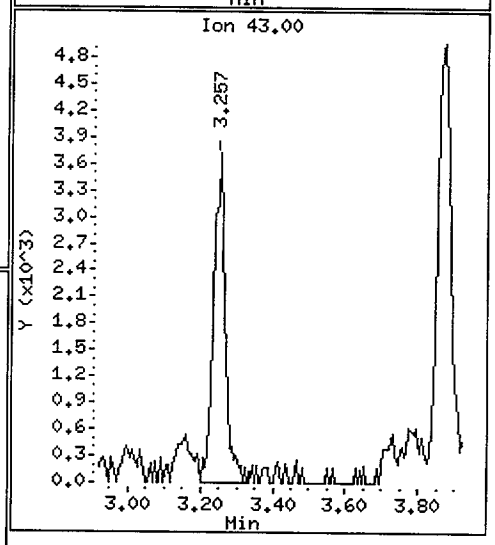
33 *Vinyl Acetate

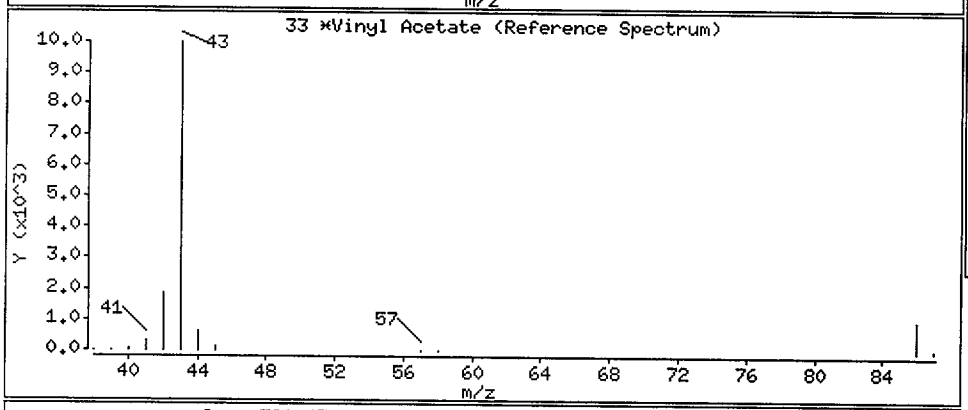
Concentration: 0.021457 ug

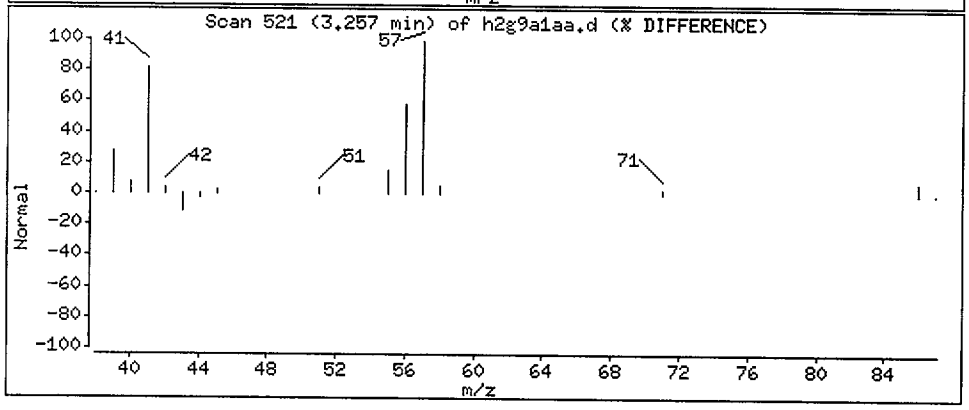












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

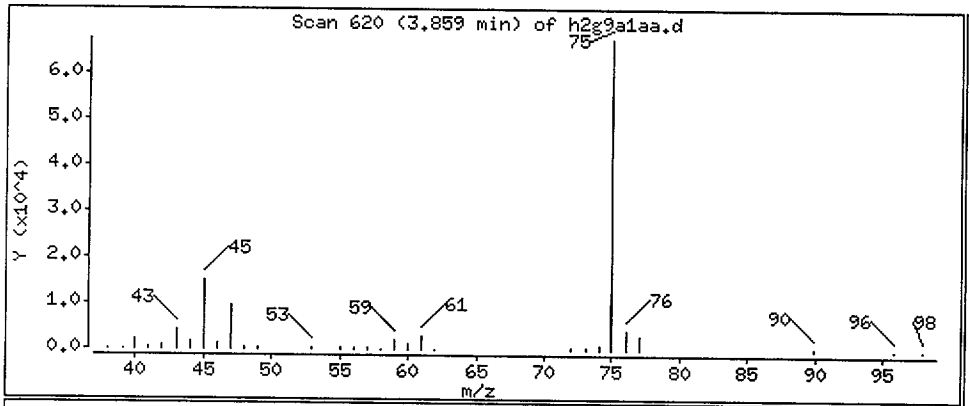
Operator: 22980

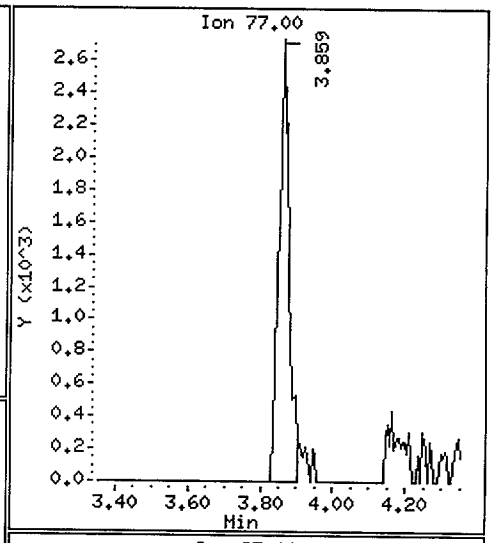
Column phase: J+W 624

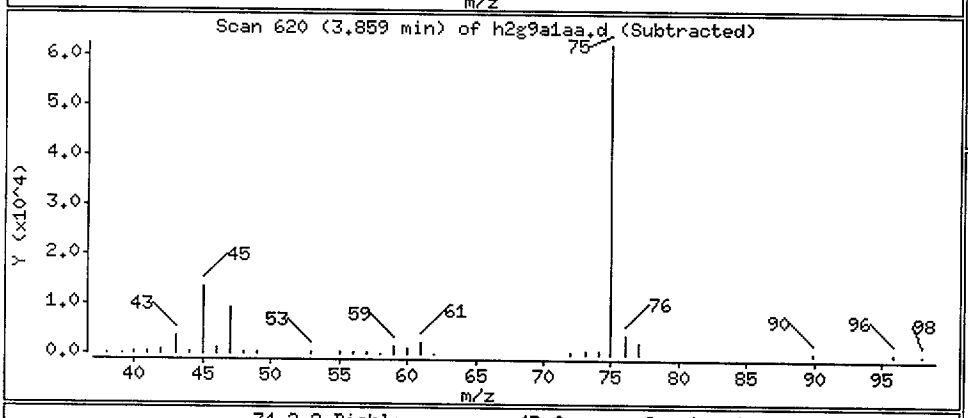
Column diameter: 0.18

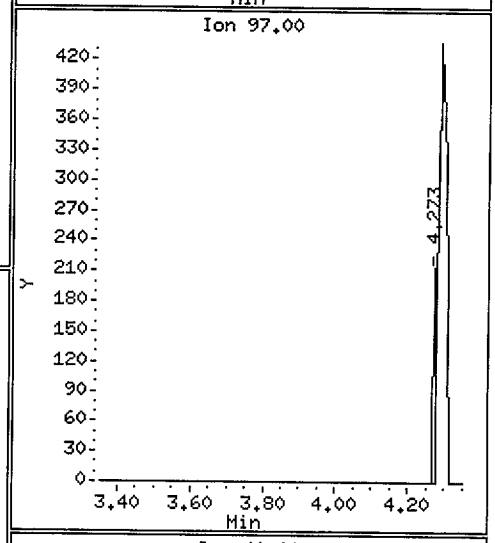
34 2,2-Dichloropropane

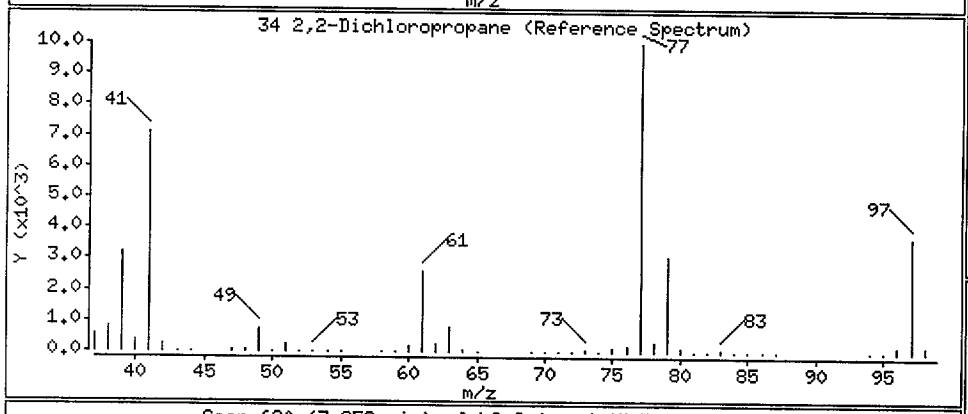
Concentration: 0.0024846 ug

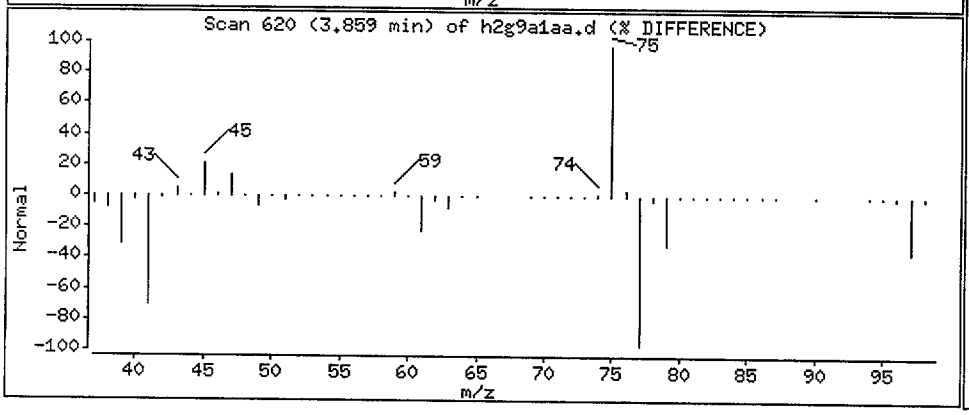


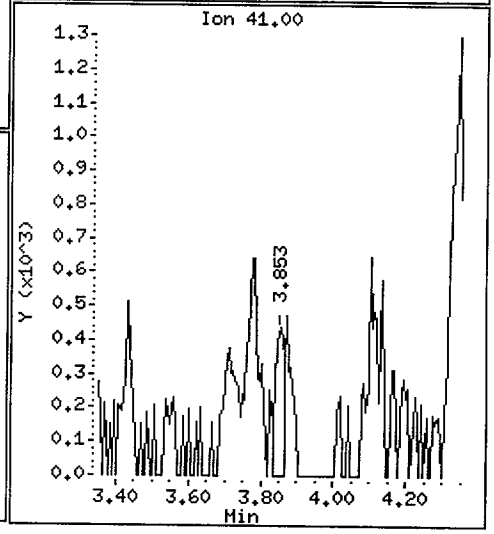












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

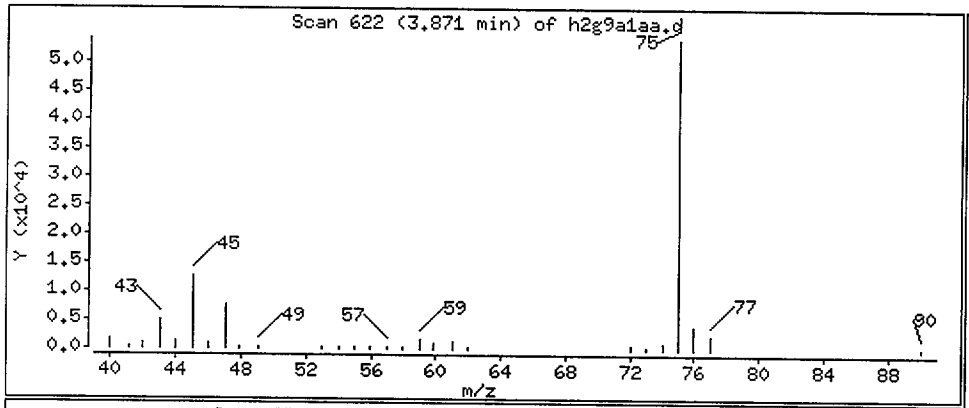
Operator: 22980

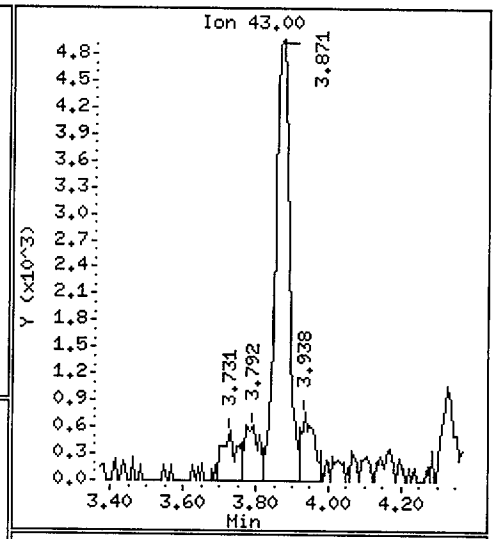
Column phase: J+W 624

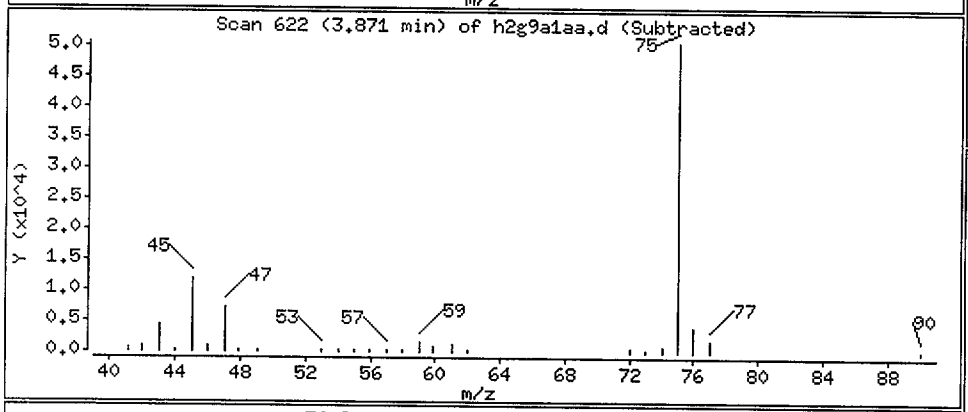
Column diameter: 0.18

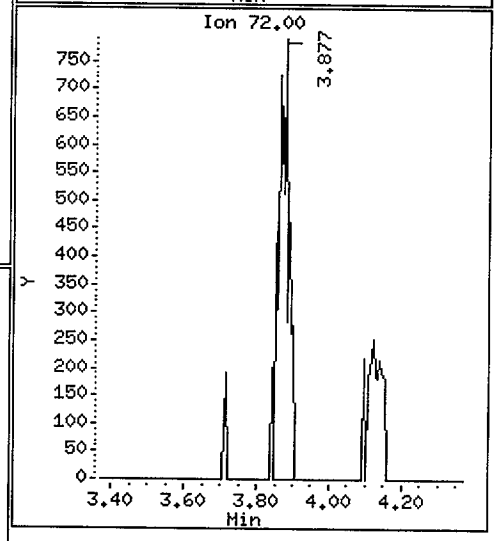
36 2-Butanone

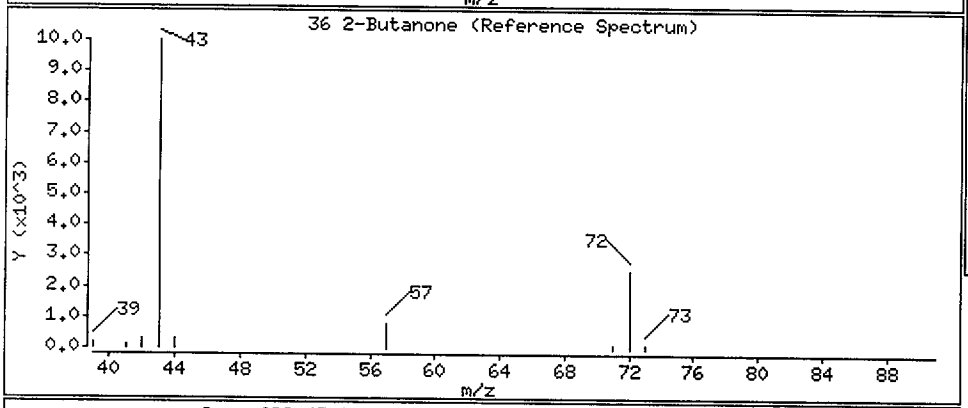
Concentration: 0.12091 ug

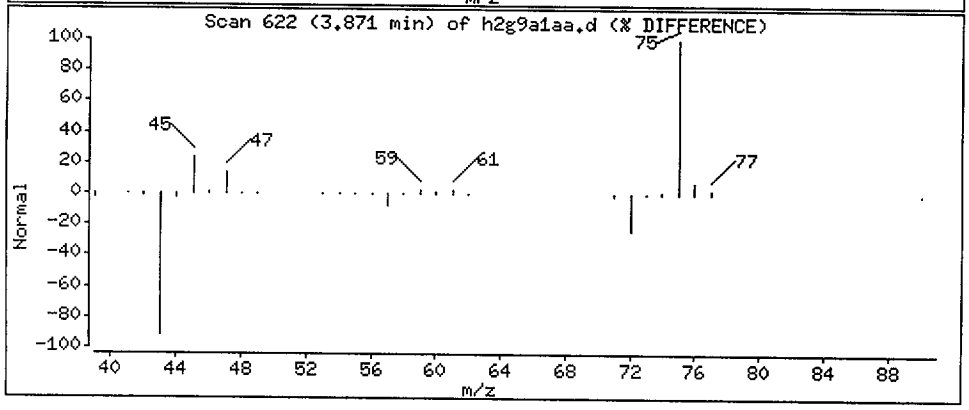












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

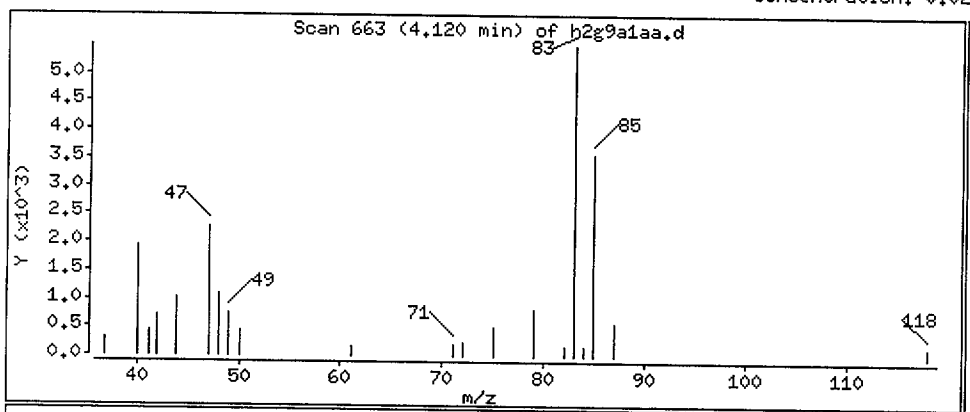
Operator: 22980

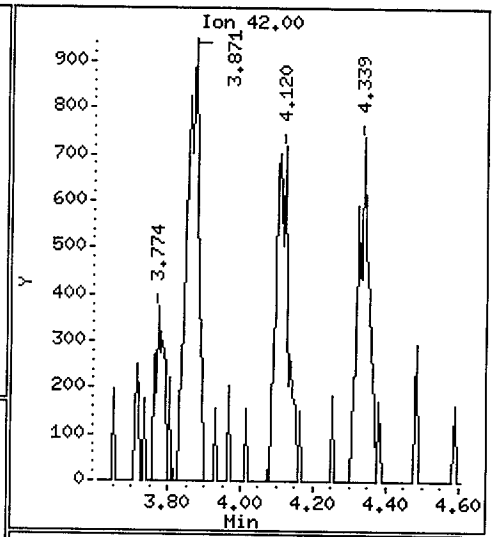
Column phase: J+W 624

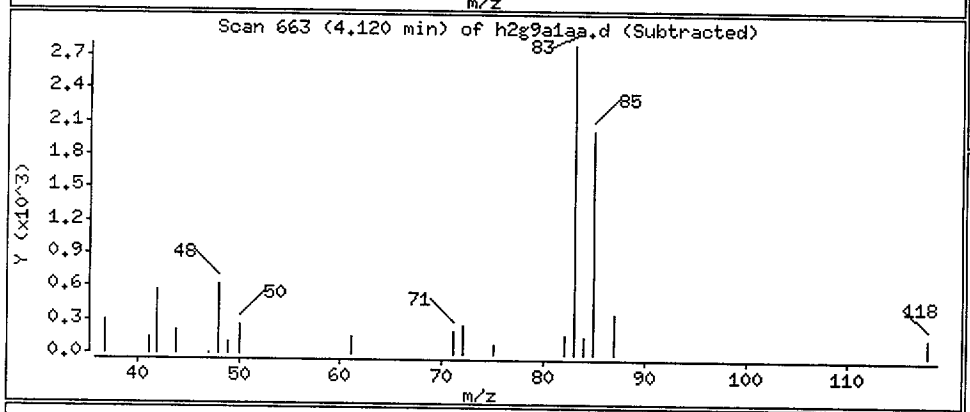
Column diameter: 0.18

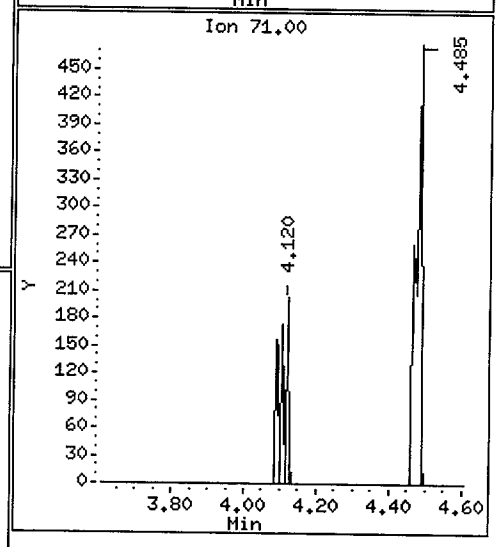
38 *THF

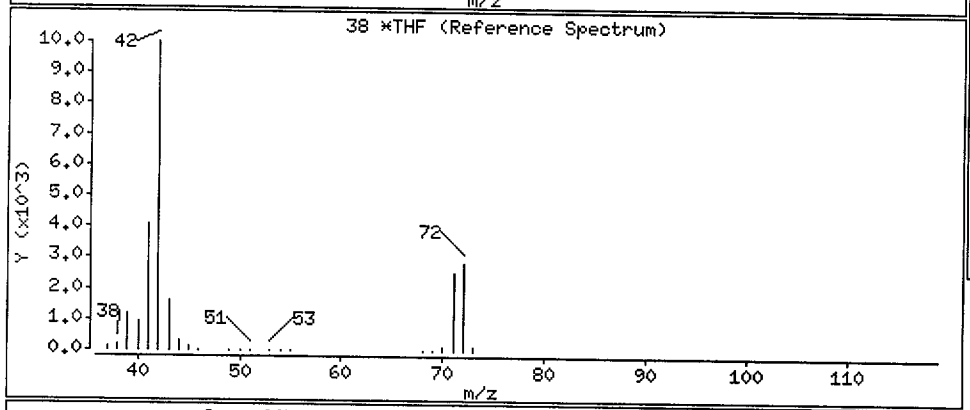
Concentration: 0.025011 ug

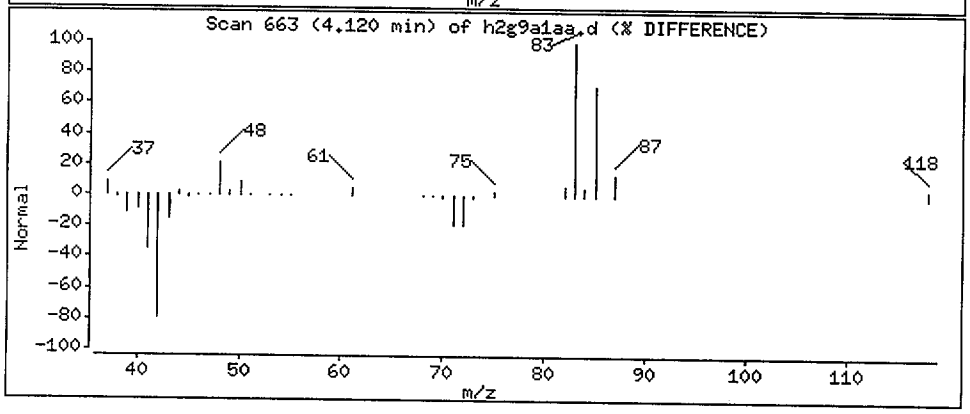












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

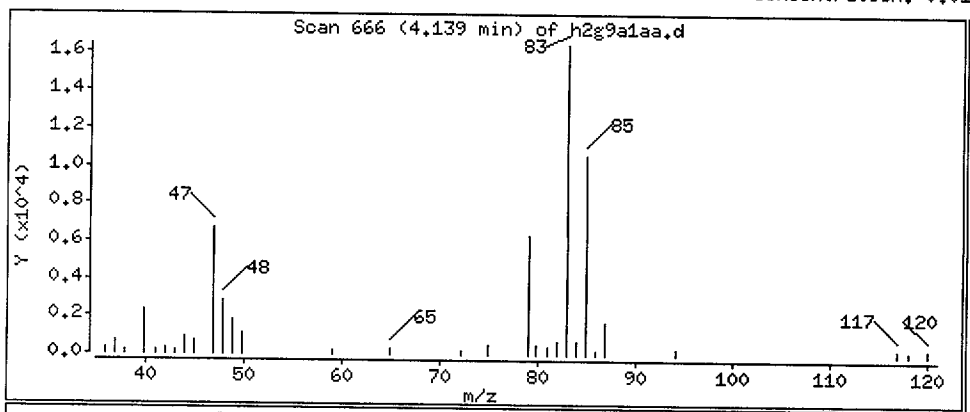
Operator: 22980

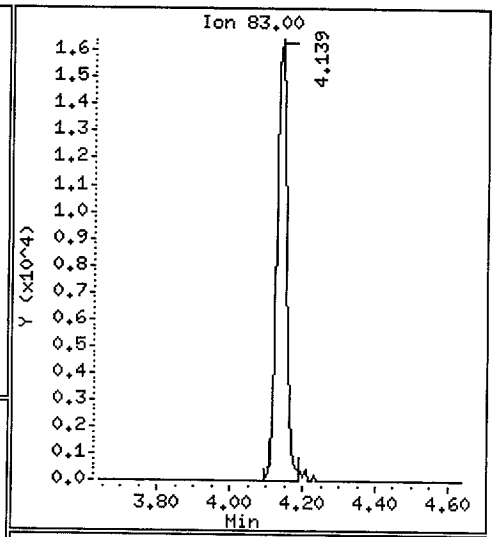
Column phase: J+W 624

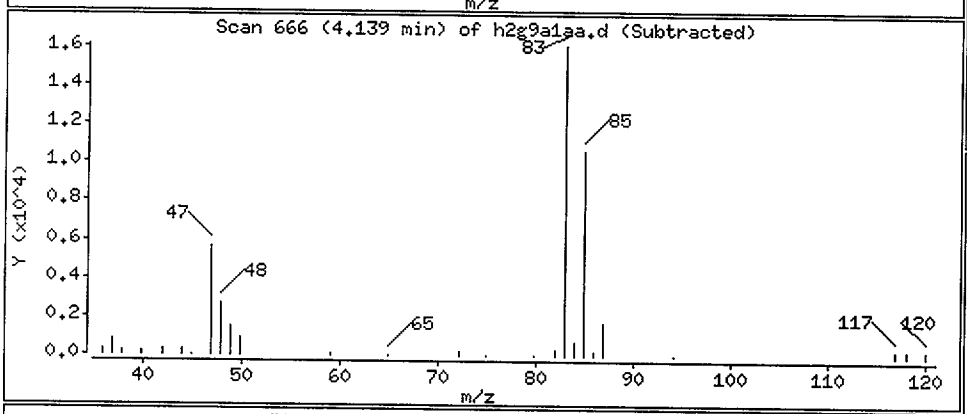
Column diameter: 0.18

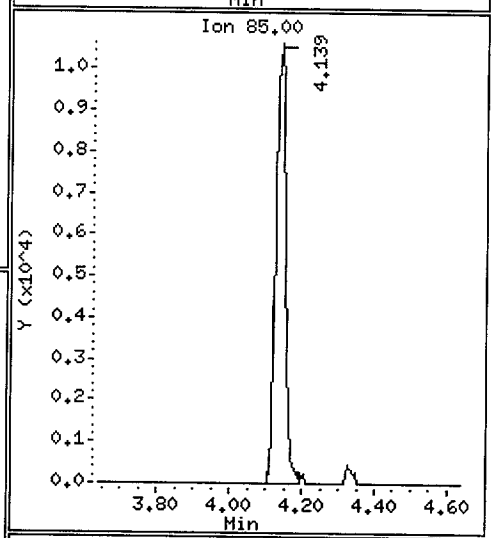
39 Chloroform (ccc)

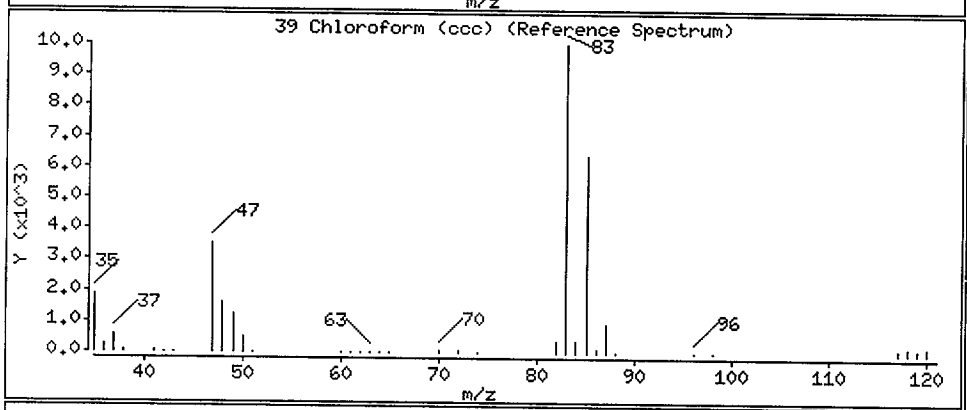
Concentration: 0.016271 ug

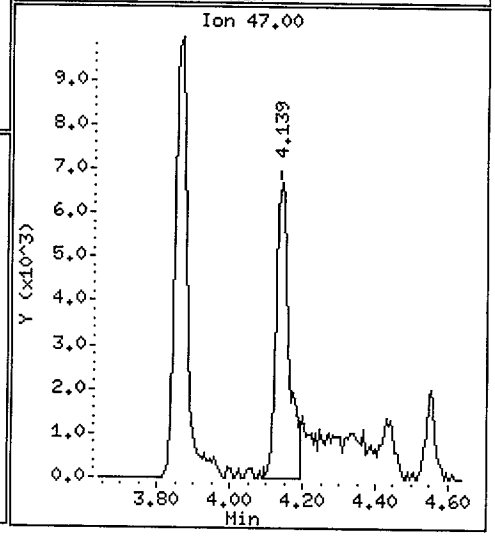


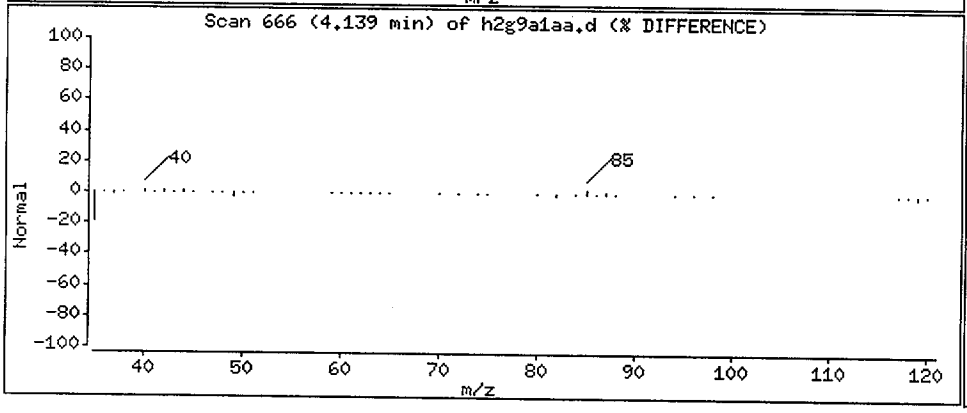












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

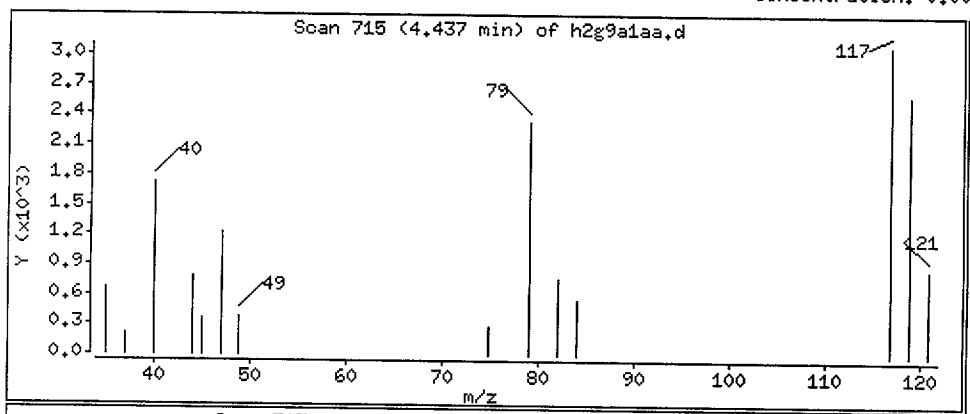
Operator: 22980

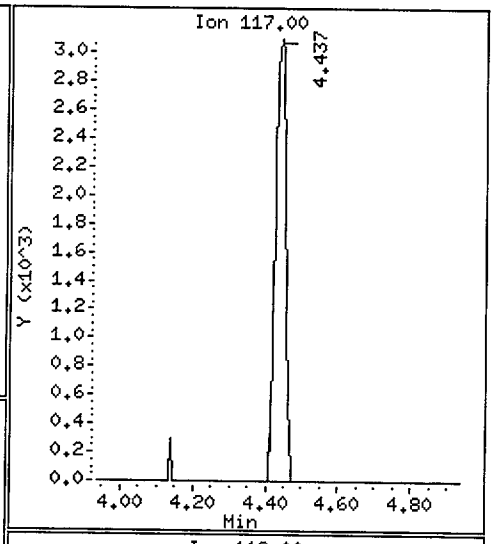
Column phase: J+W 624

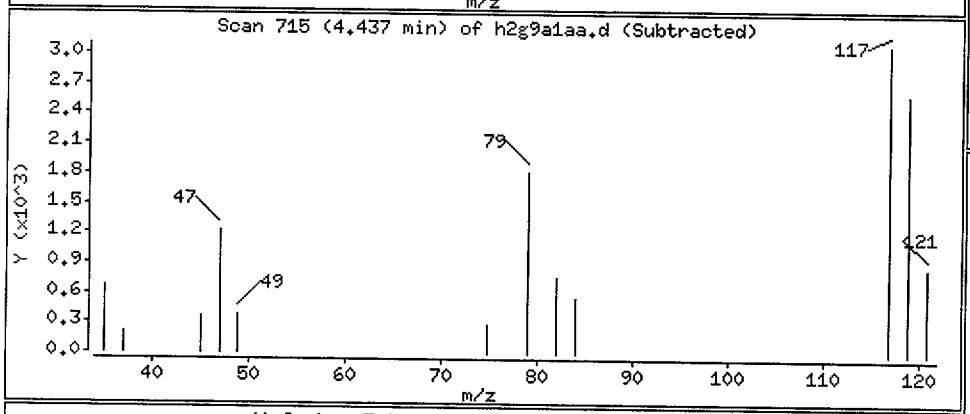
Column diameter: 0.18

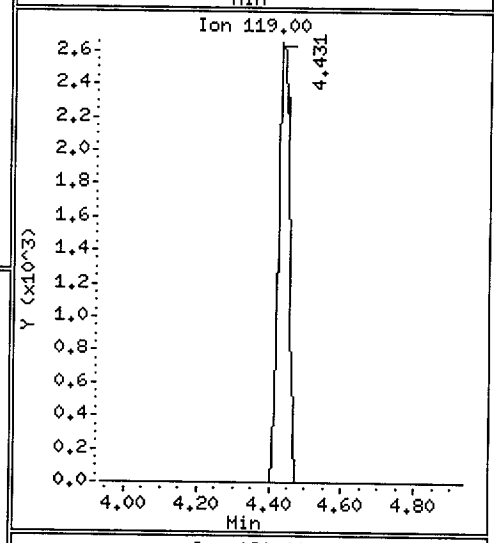
41 Carbon Tetrachloride

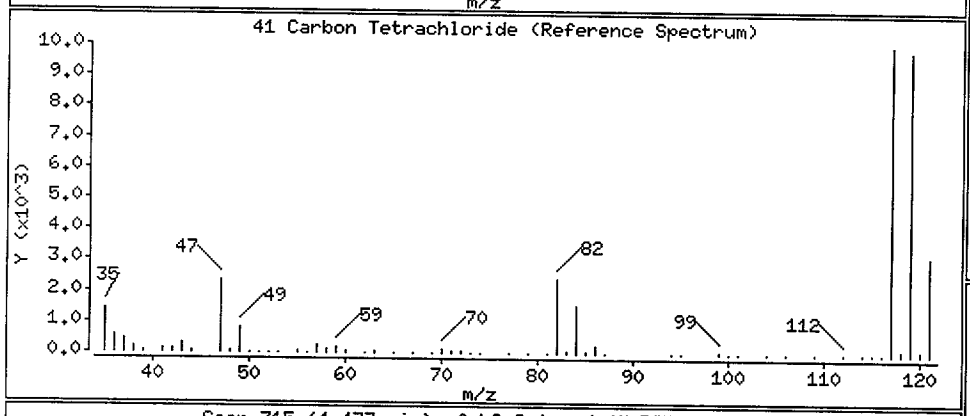
Concentration: 0.0034356 ug

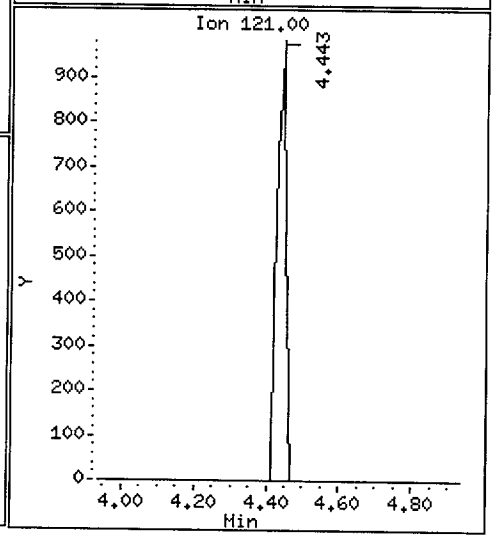


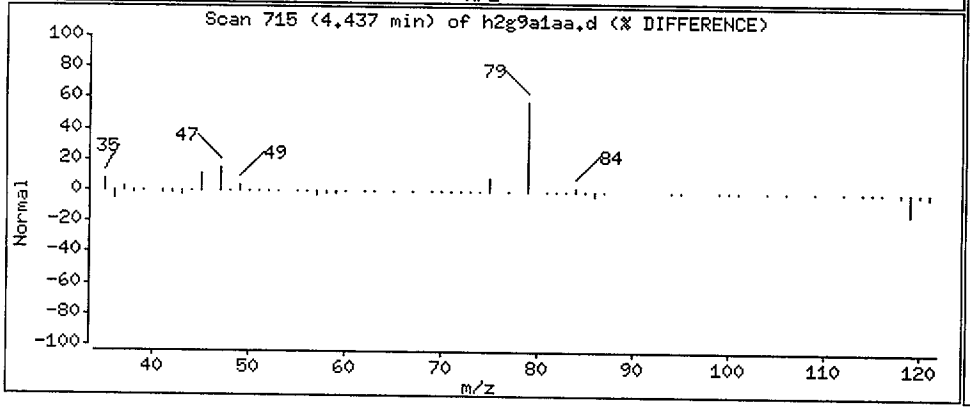












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

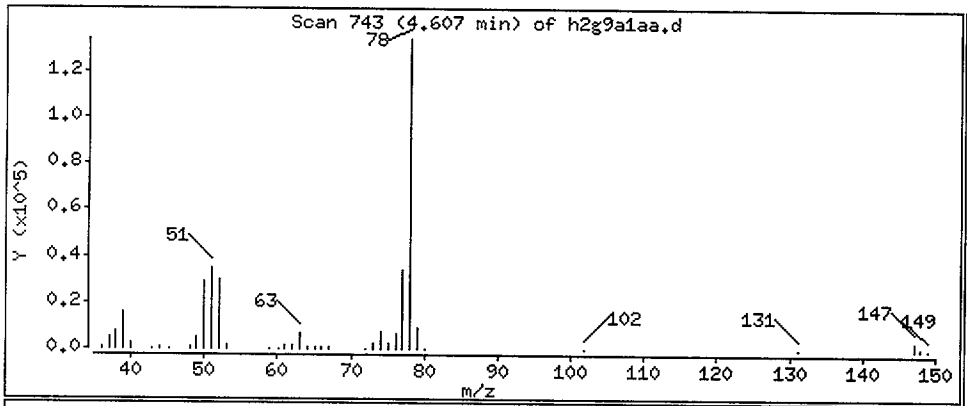
Operator: 22980

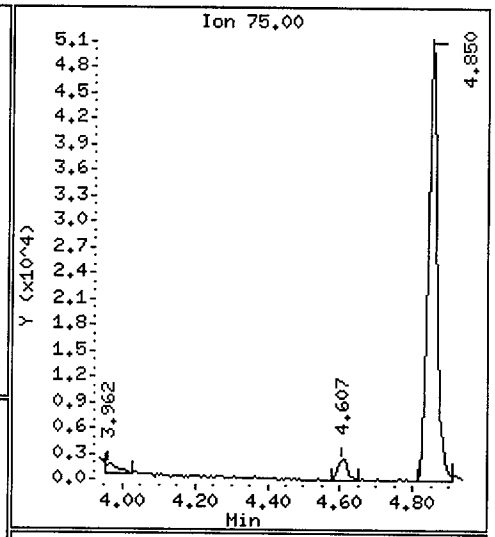
Column phase: J+W 624

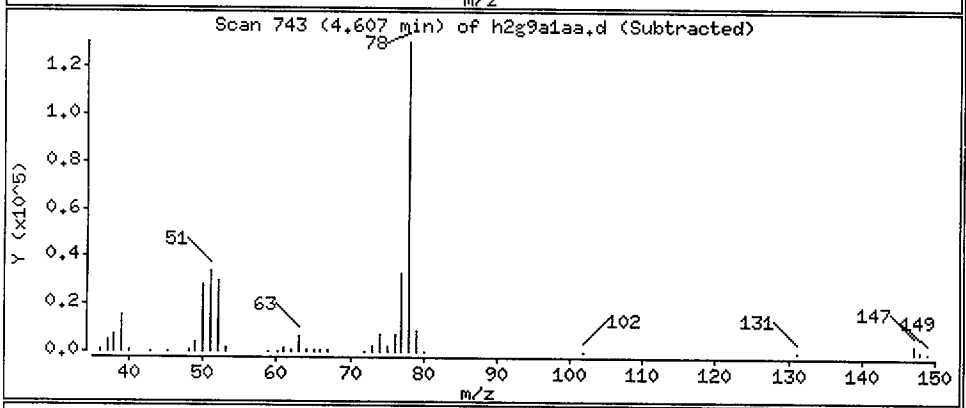
Column diameter: 0.18

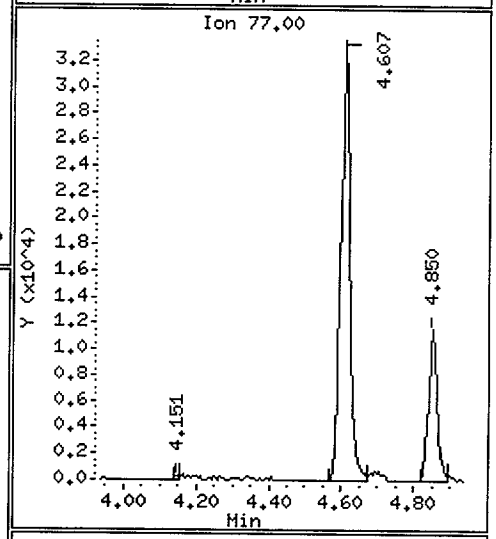
42 1,1-Dichloropropene

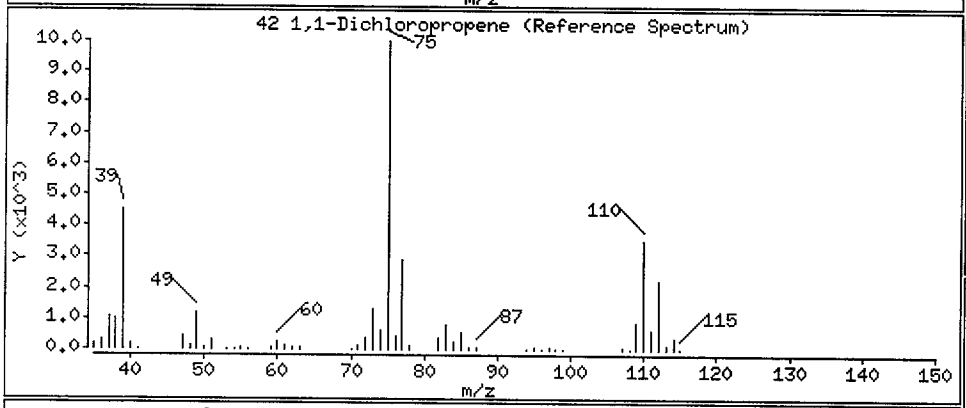
Concentration: 0.0024468 ug

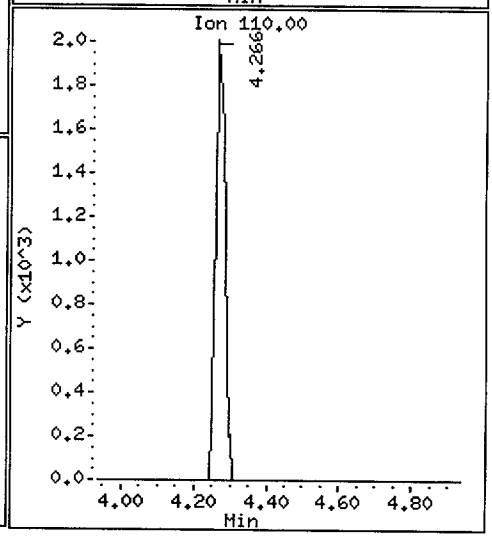


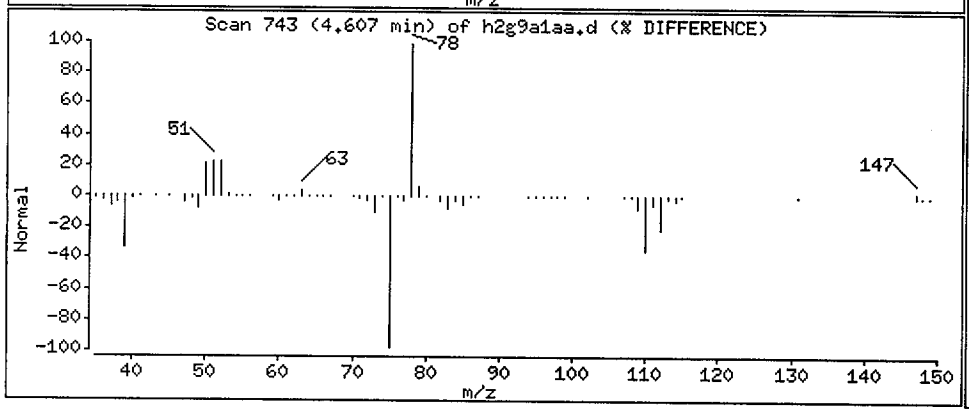












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

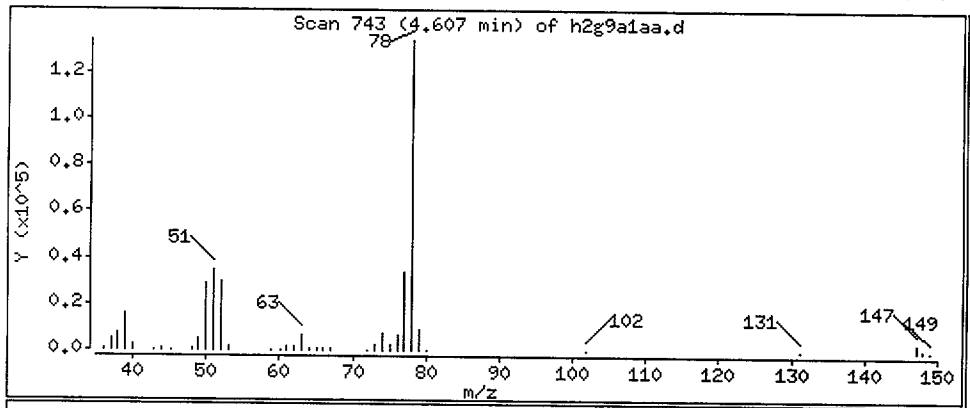
Operator: 22980

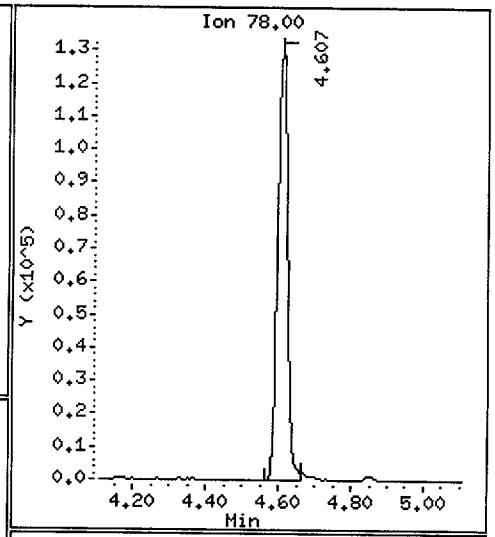
Column phase: J+W 624

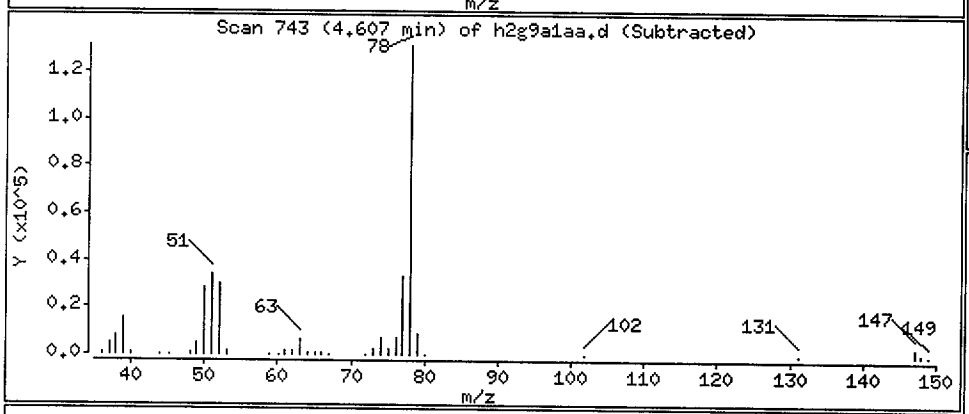
Column diameter: 0.18

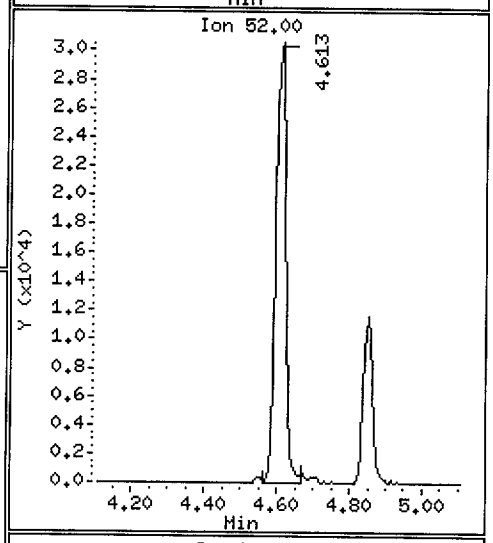
43 Benzene

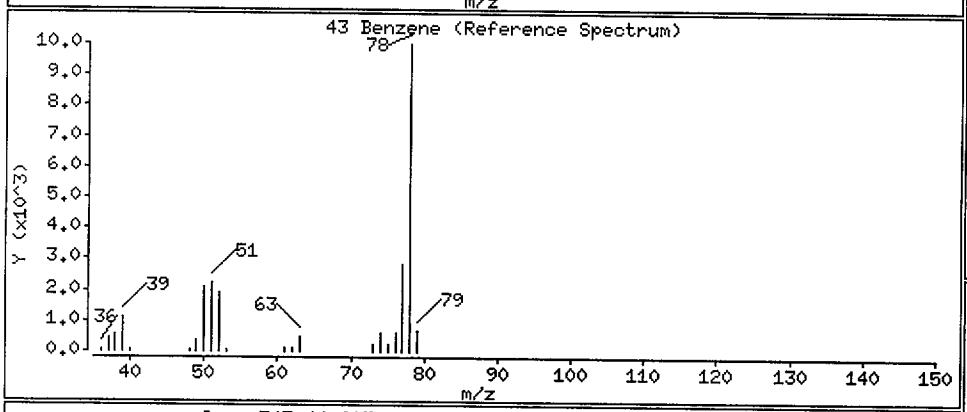
Concentration: 0.049142 ug

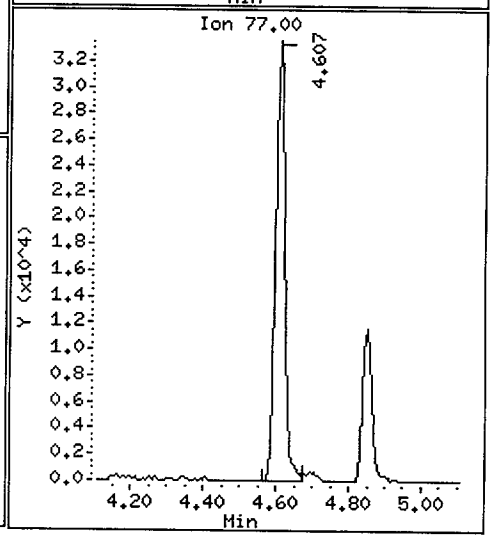


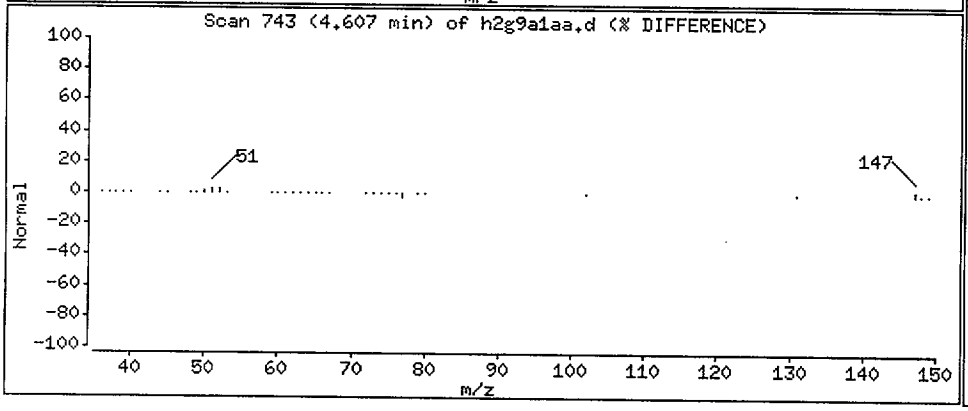












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

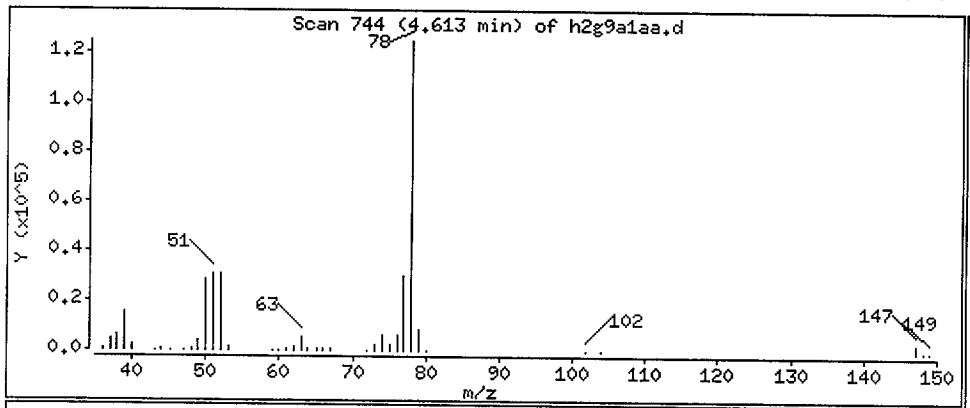
Operator: 22980

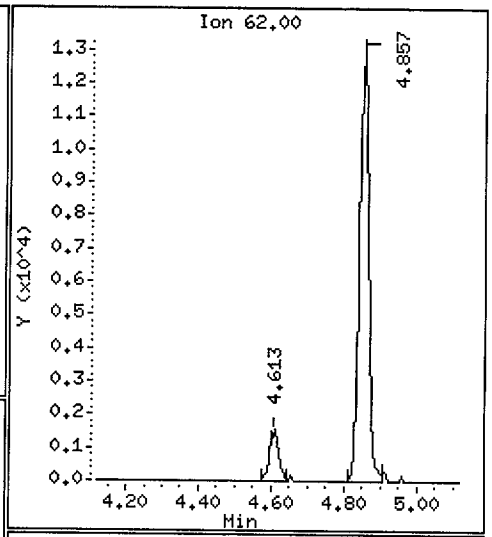
Column phase: J+W 624

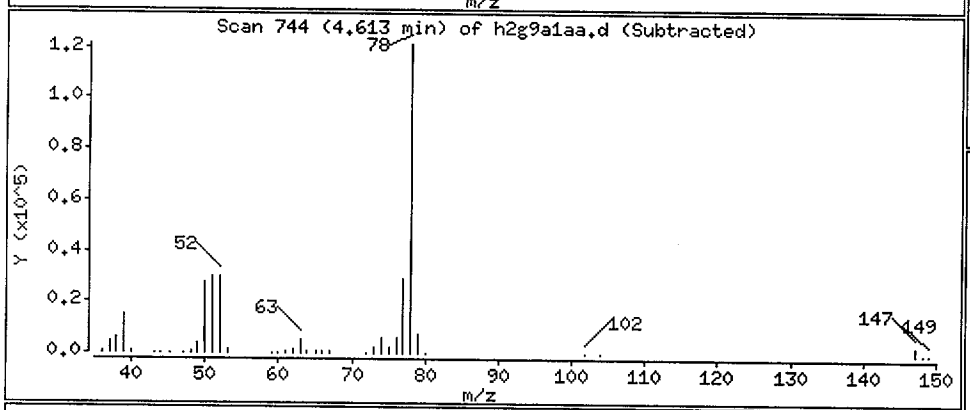
Column diameter: 0.18

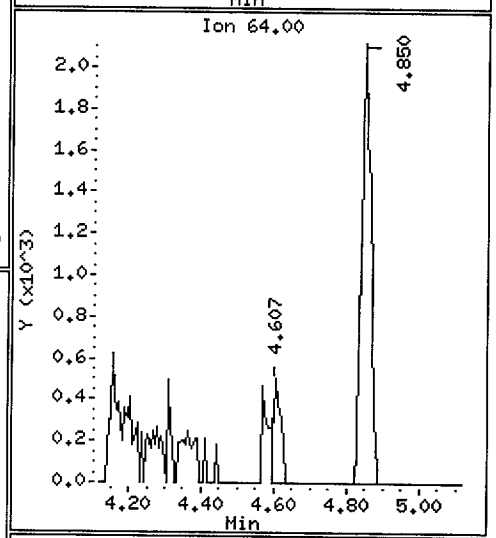
44 1,2-Dichloroethane

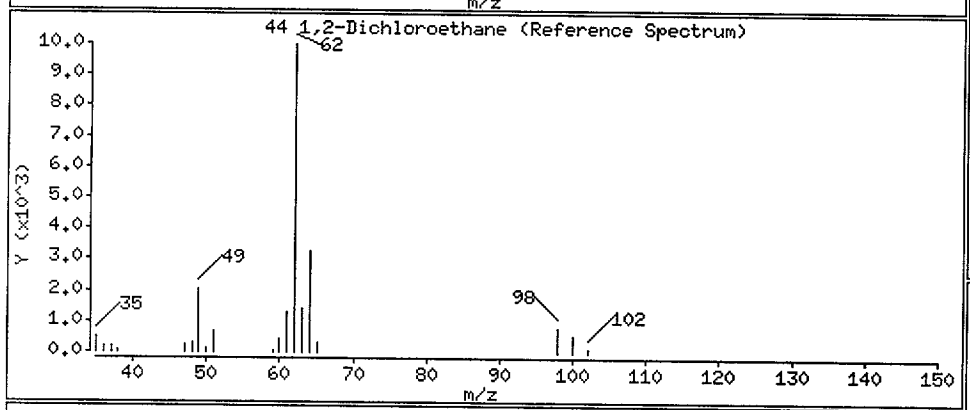
Concentration: 0.0031897 ug

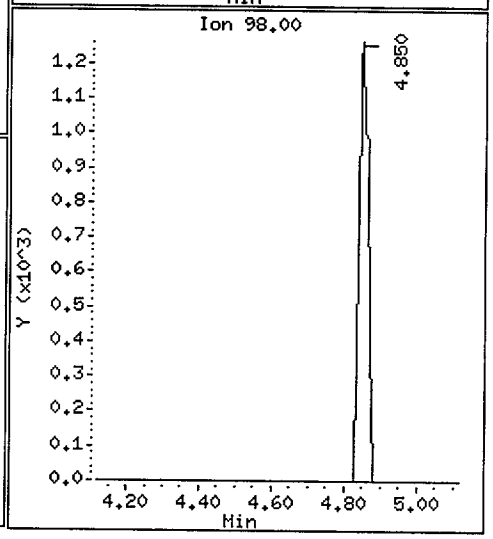


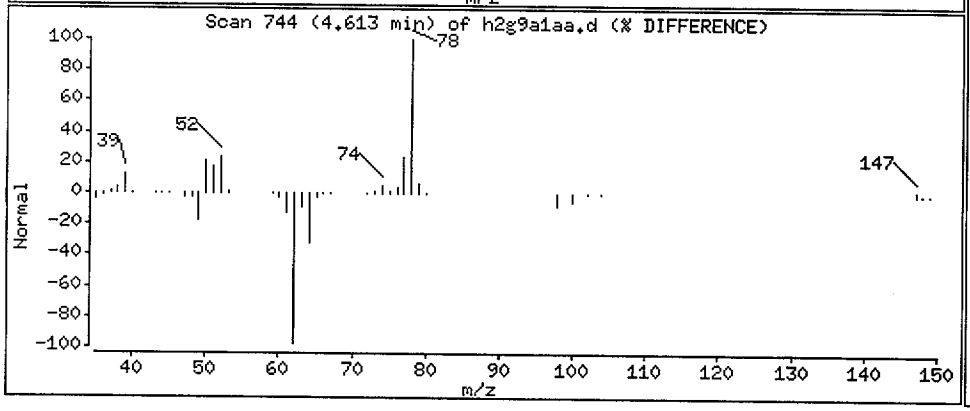












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

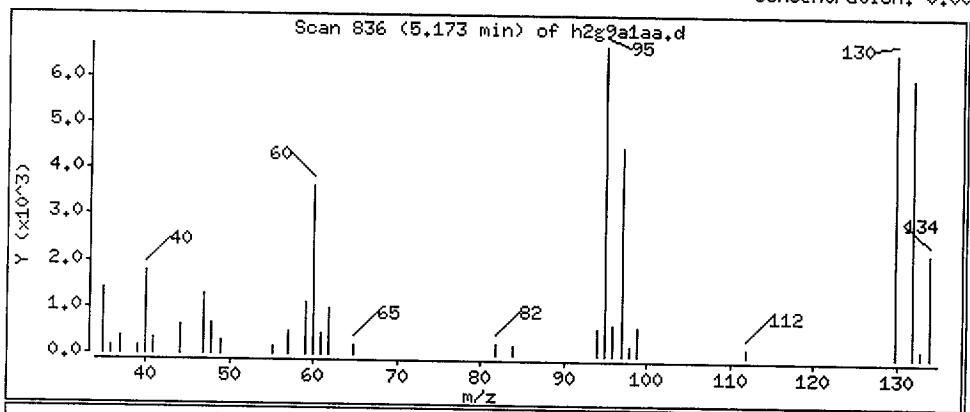
Operator: 22980

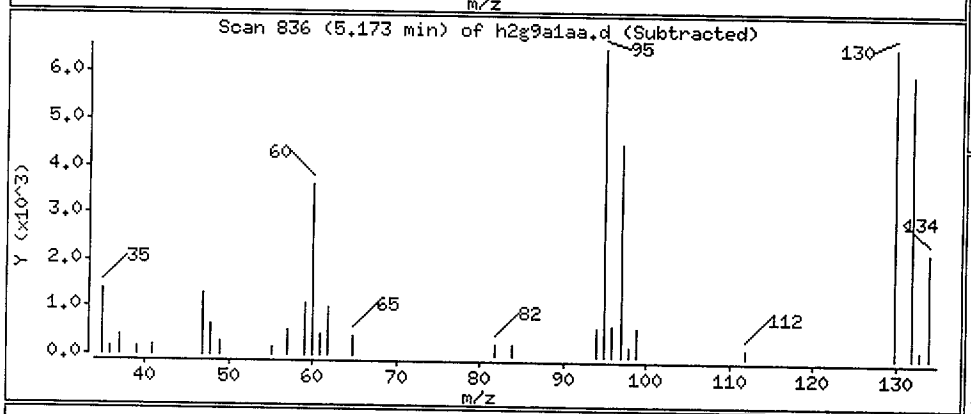
Column phase: J+W 624

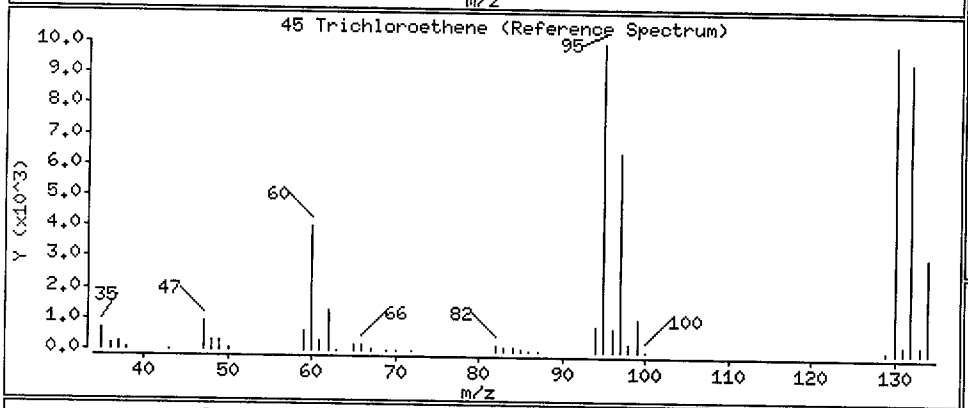
Column diameter: 0.18

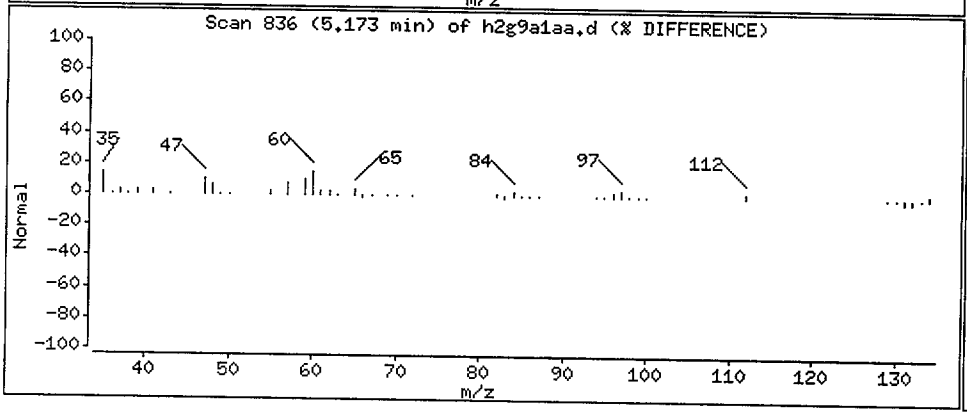
45 Trichloroethene

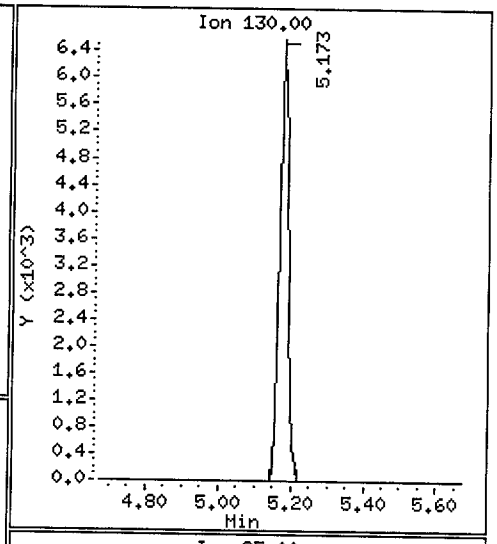
Concentration: 0.0079859 ug

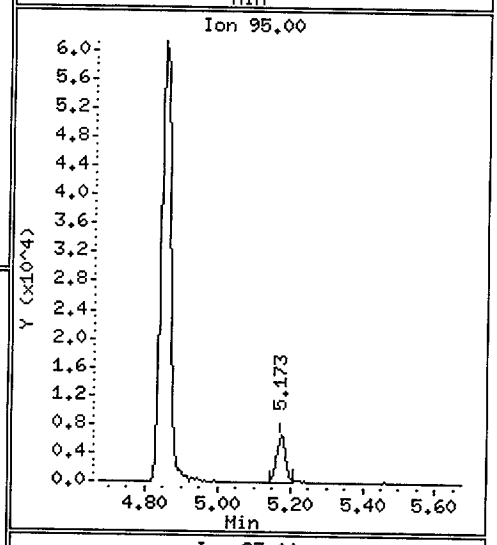


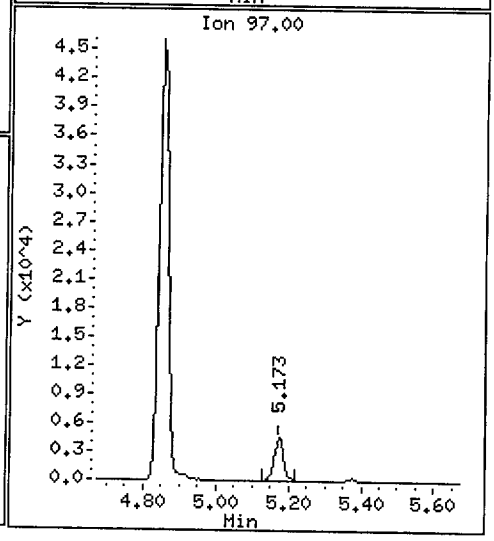












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

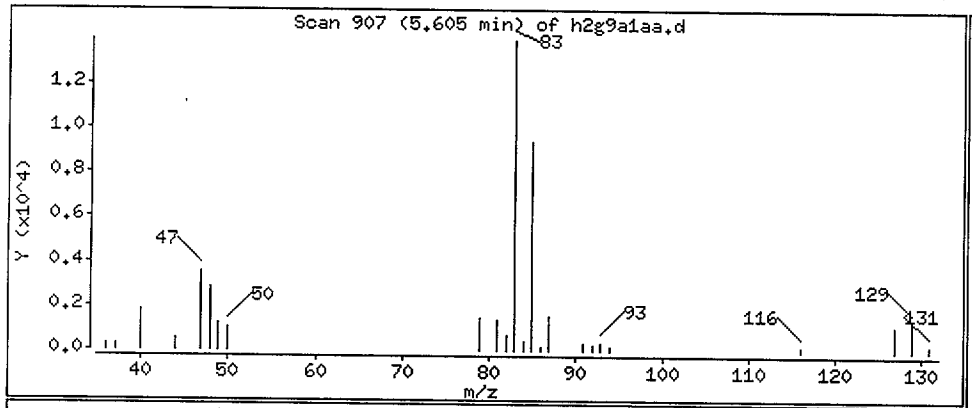
Operator: 22980

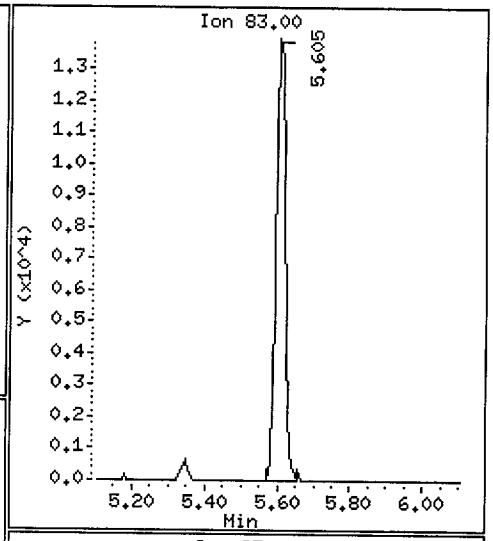
Column phase: J+W 624

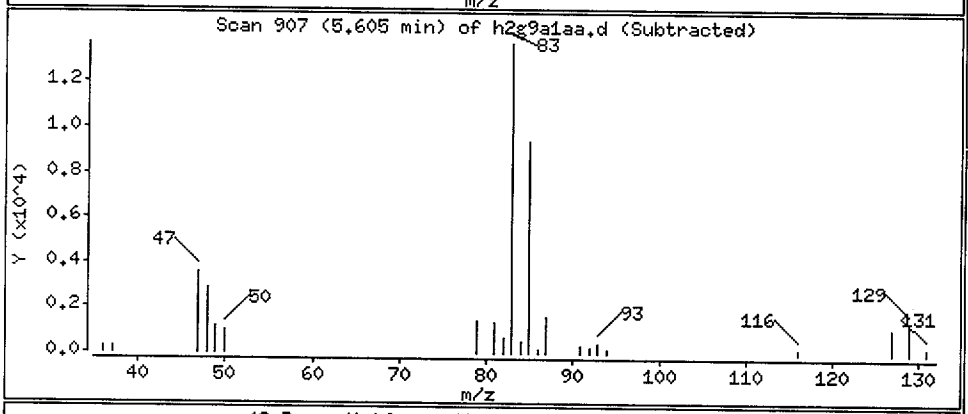
Column diameter: 0.18

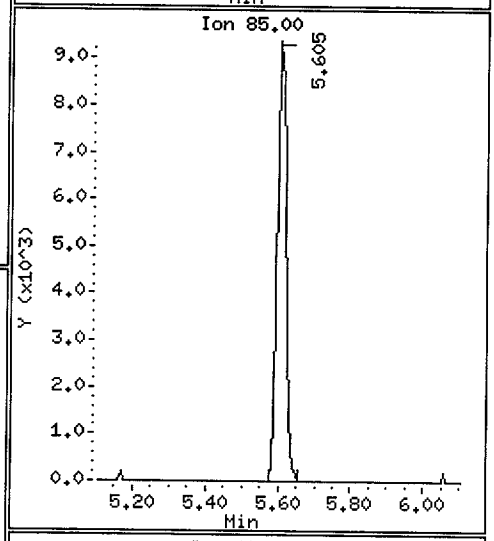
49 Bromodichloromethane

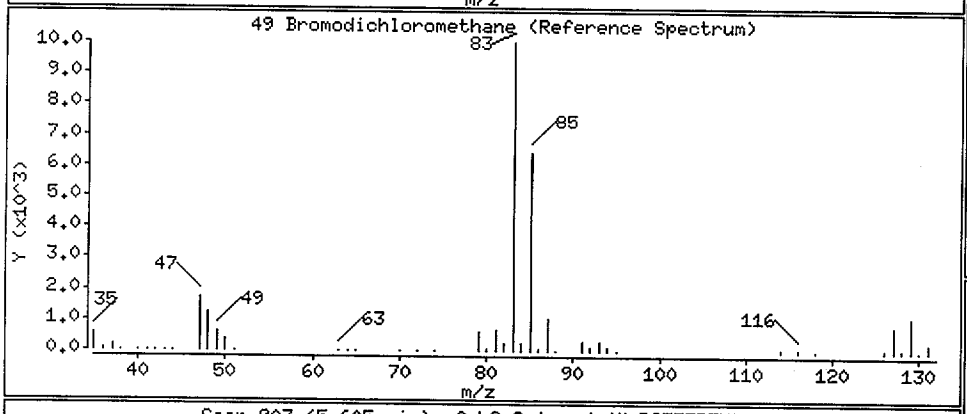
Concentration: 0.022843 ug

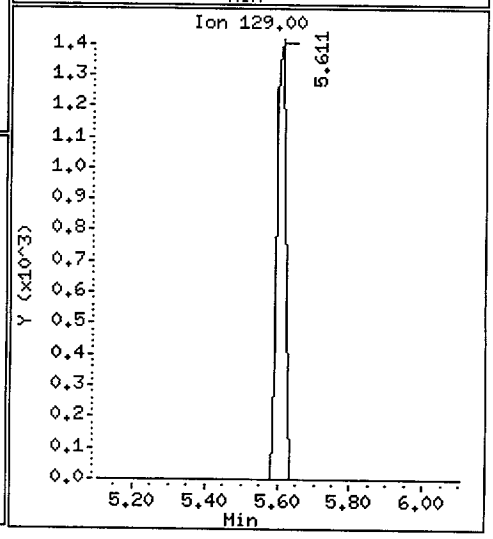


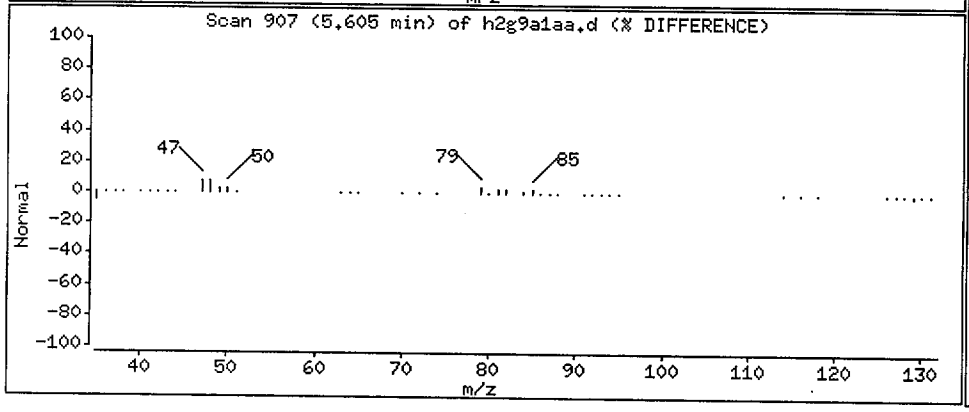












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

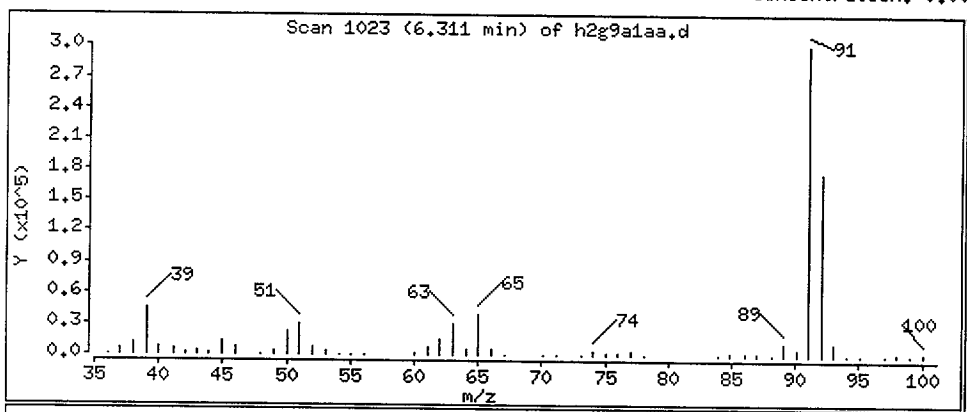
Operator: 22980

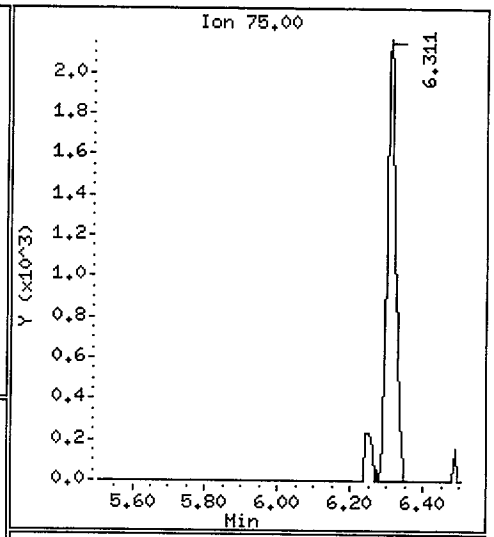
Column phase: J+W 624

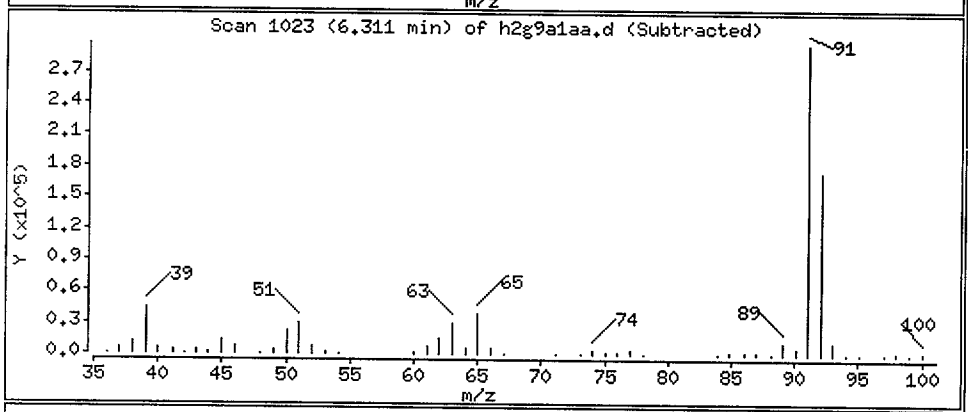
Column diameter: 0.18

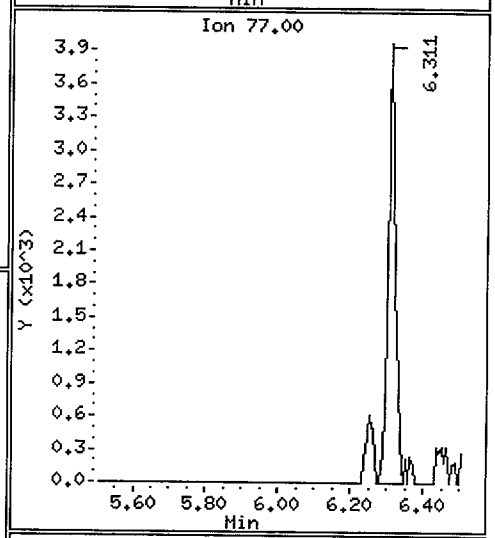
51 cis-1,3-Dichloropropene

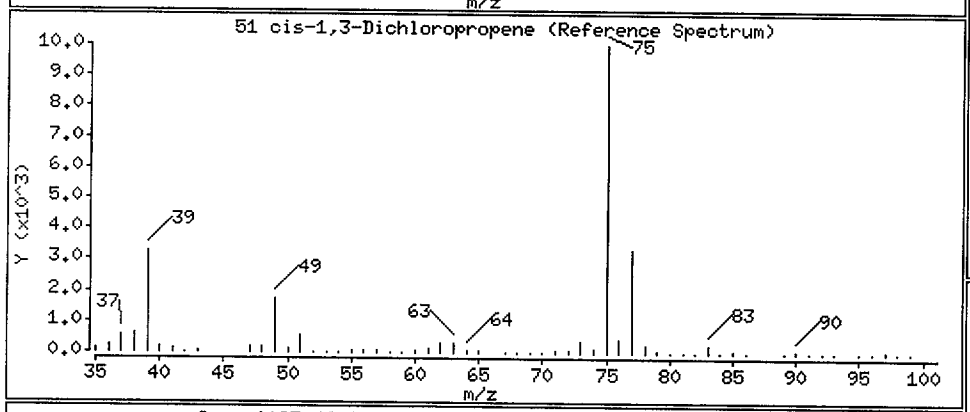
Concentration: 0.0031451 ug

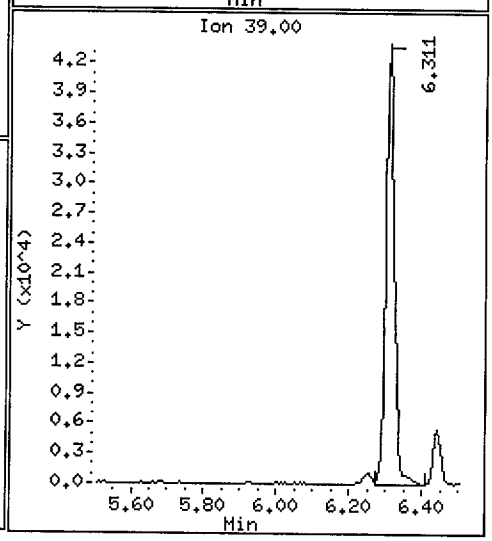


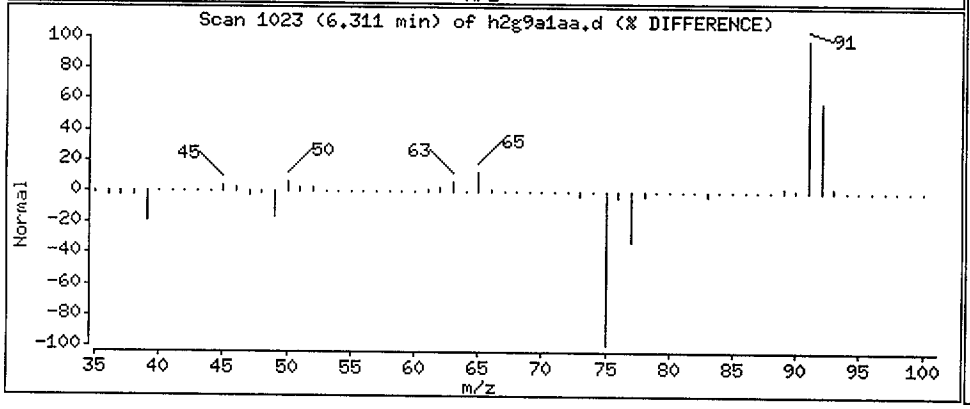












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

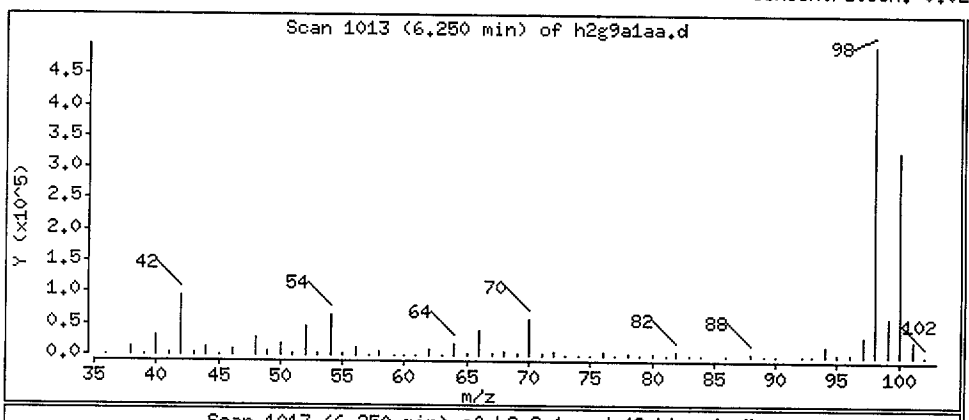
Operator: 22980

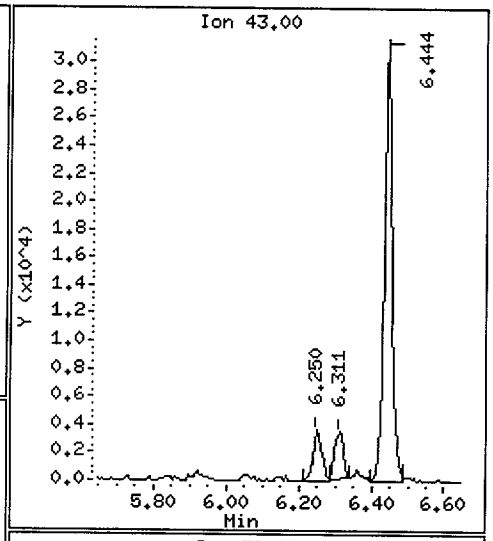
Column phase: J+W 624

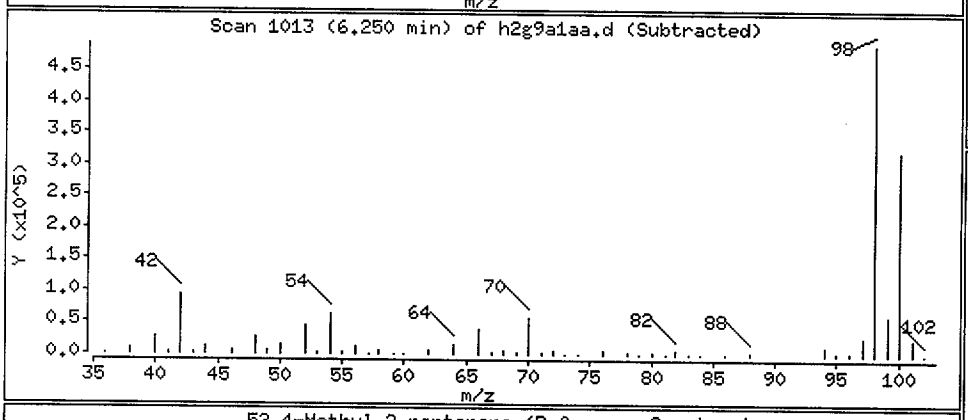
Column diameter: 0.18

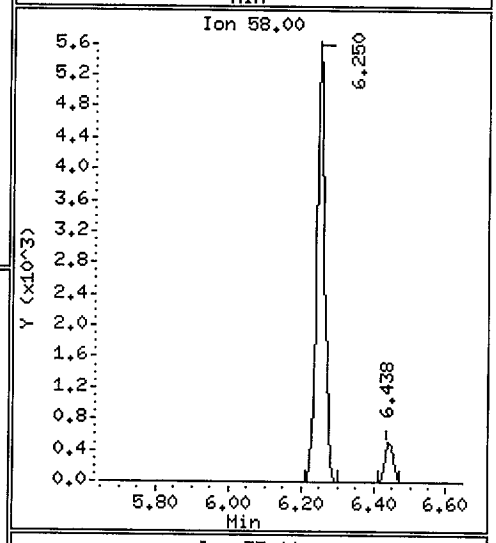
52 4-Methyl-2-pentanone

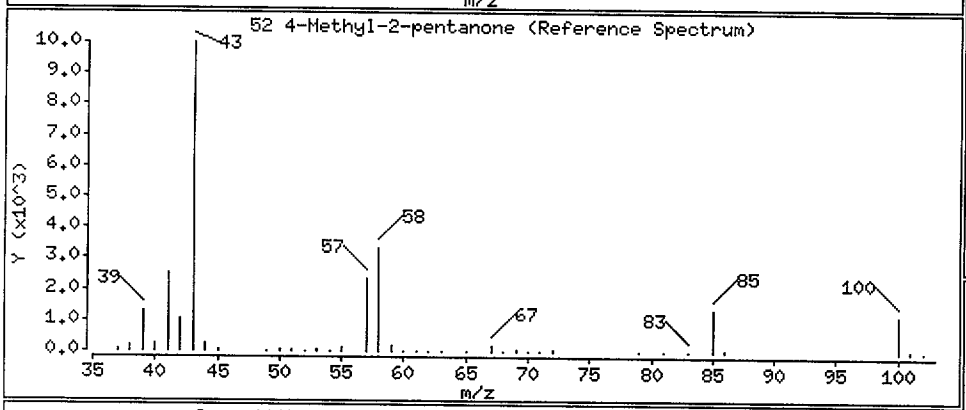
Concentration: 0.024010 ug

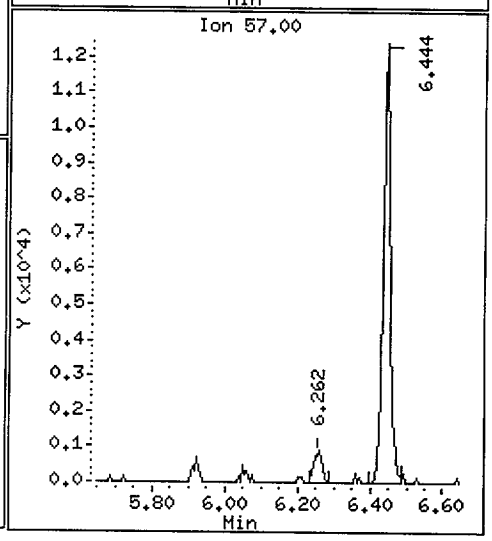


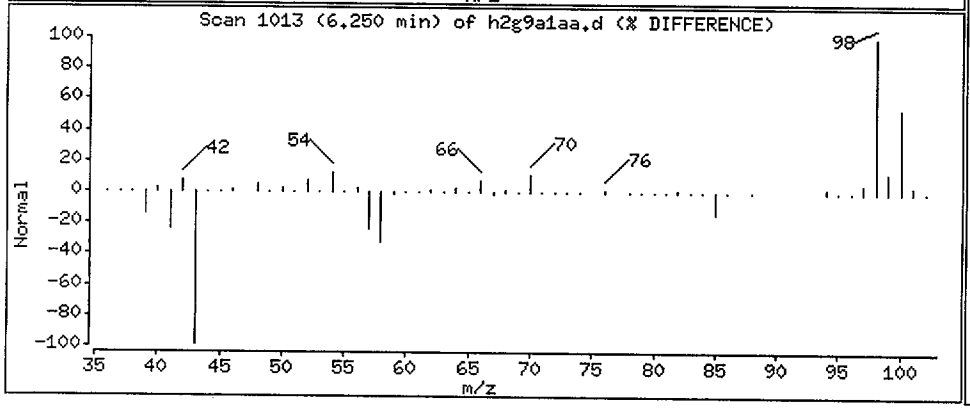












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

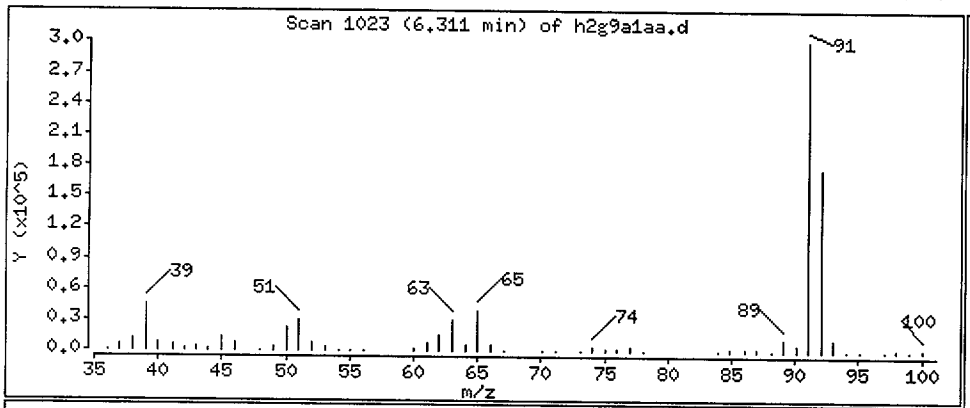
Operator: 22980

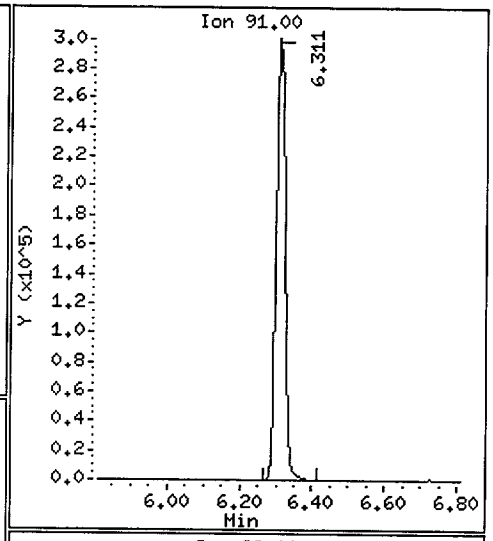
Column phase: J+W 624

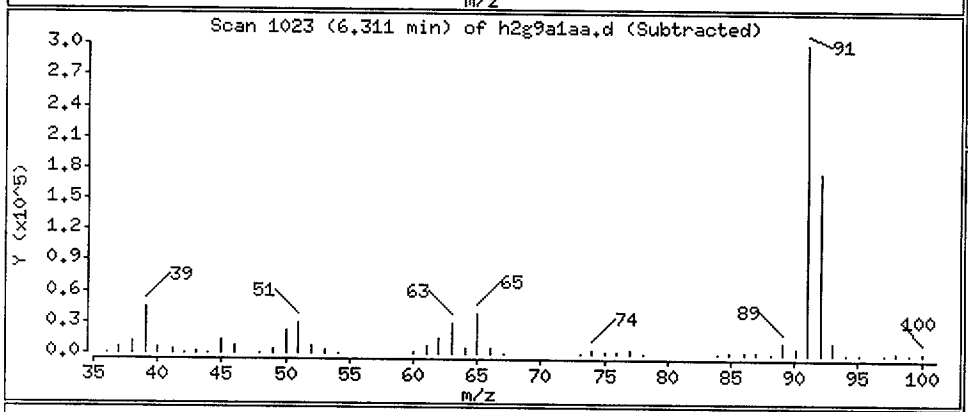
Column diameter: 0.18

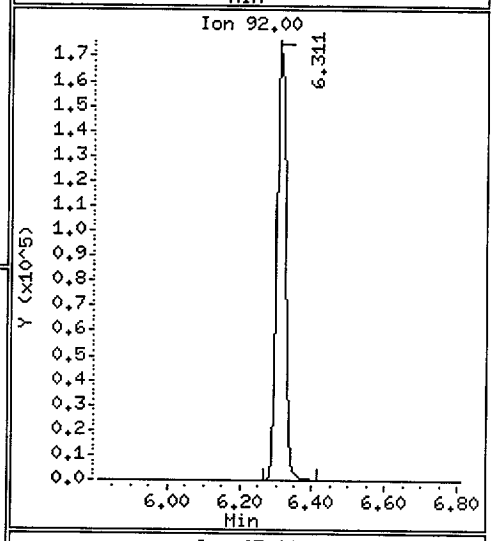
53 Toluene (ccc)

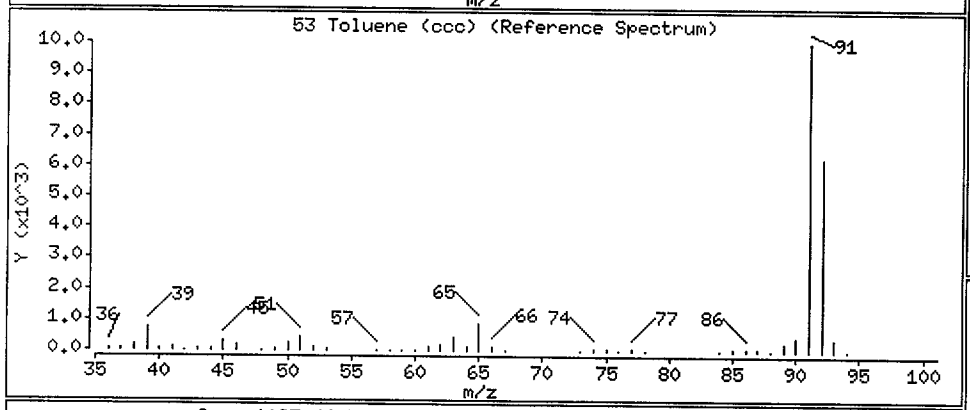
Concentration: 0.088484 ug

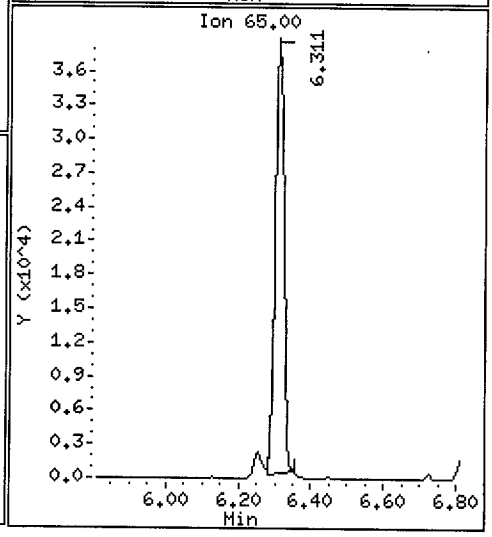


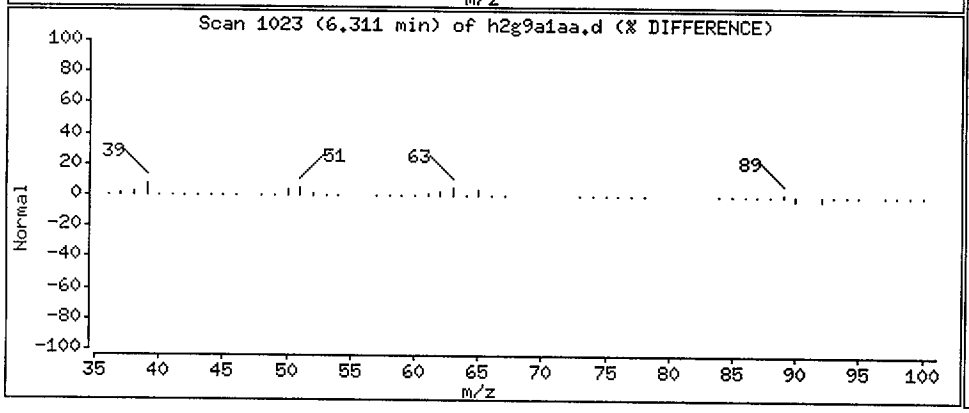












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

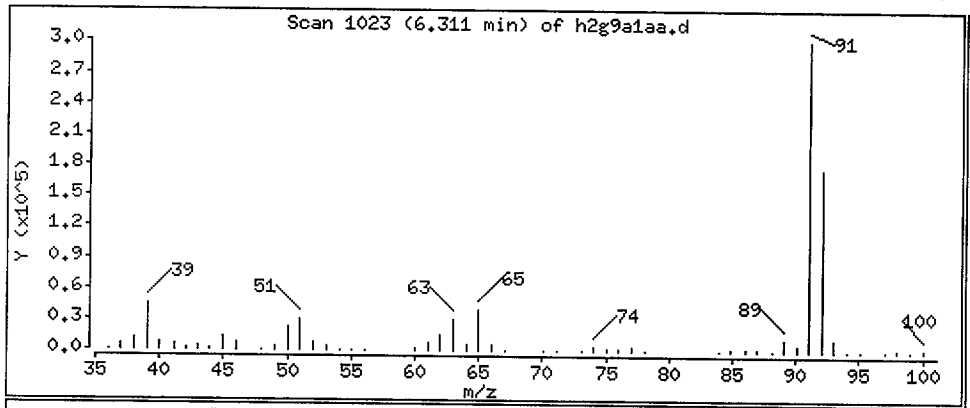
Operator: 22980

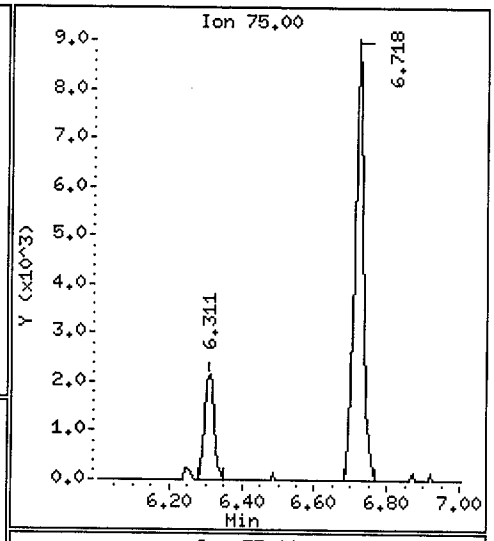
Column phase: J+W 624

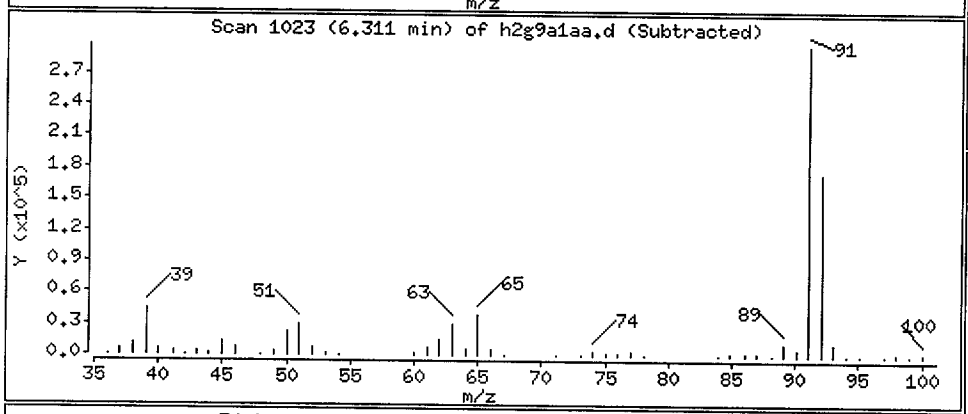
Column diameter: 0.18

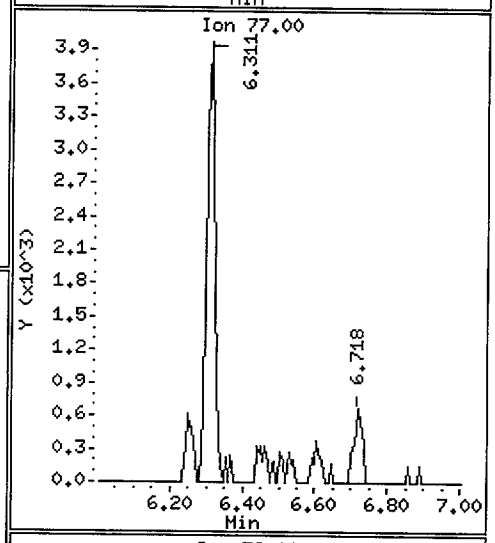
54 trans-1,3-Dichloropropene

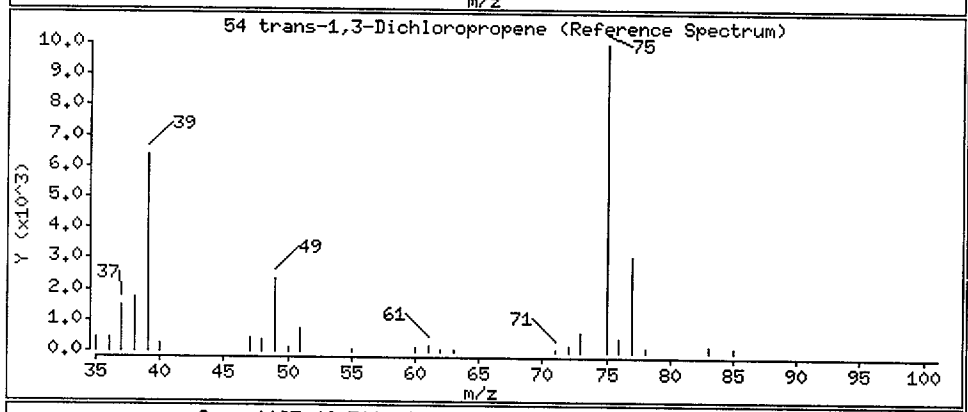
Concentration: 0.0038947 ug

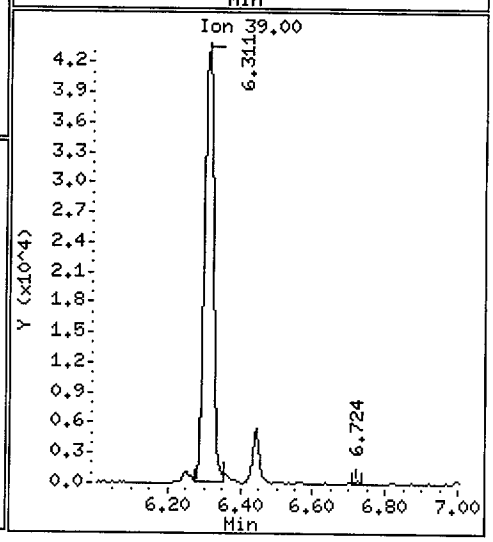


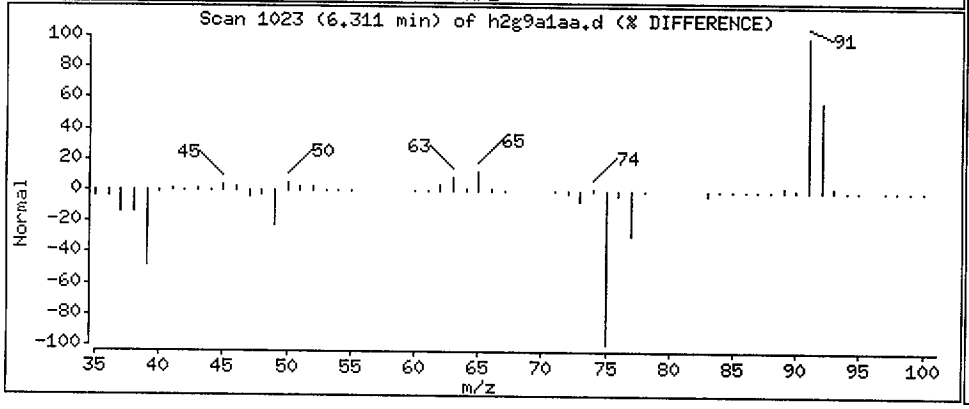












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

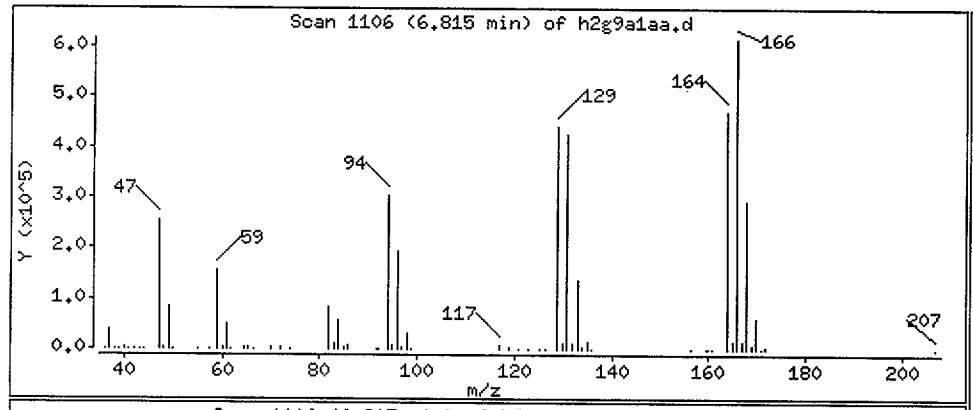
Operator: 22980

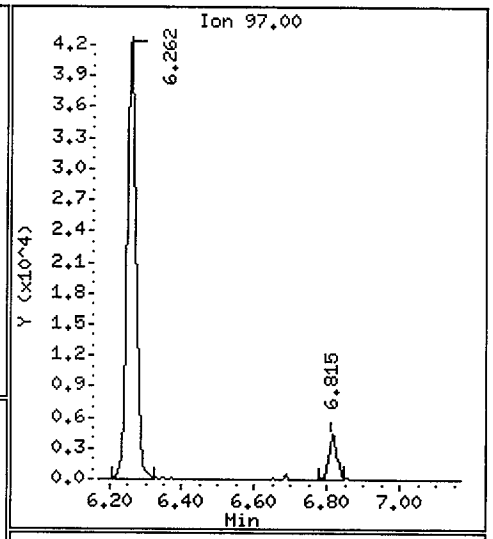
Column phase: J+W 624

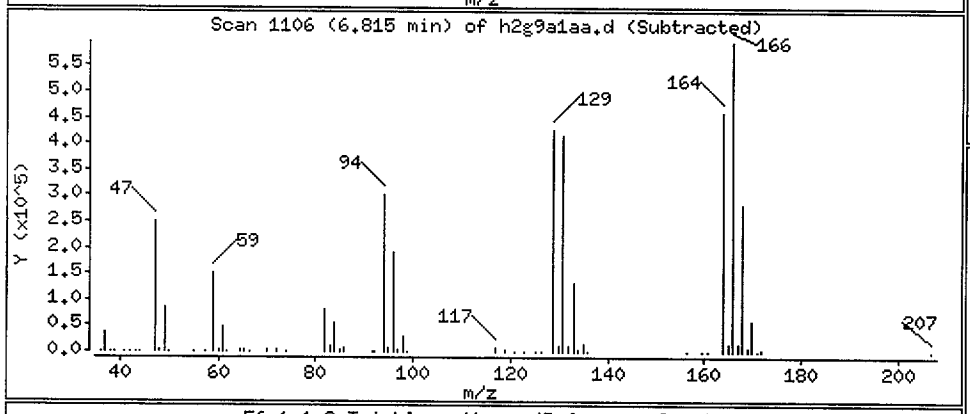
Column diameter: 0.18

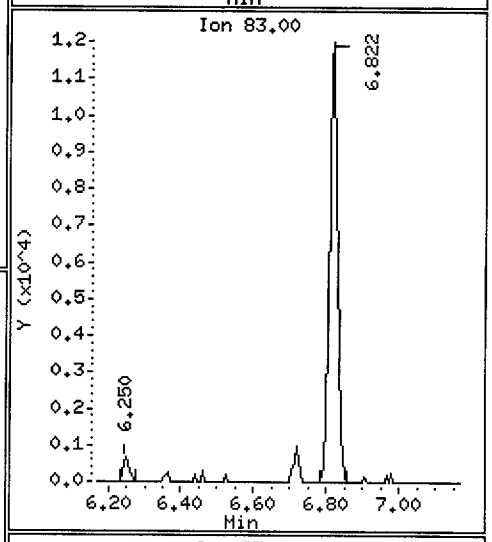
56 1,1,2-Trichloroethane

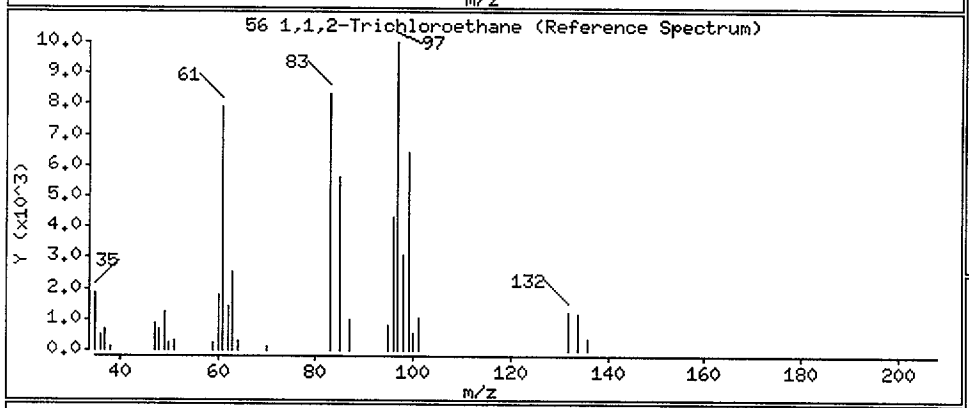
Concentration: 0.016210 ug

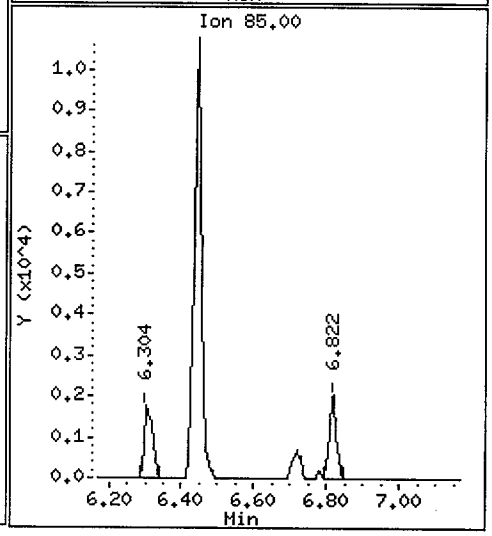


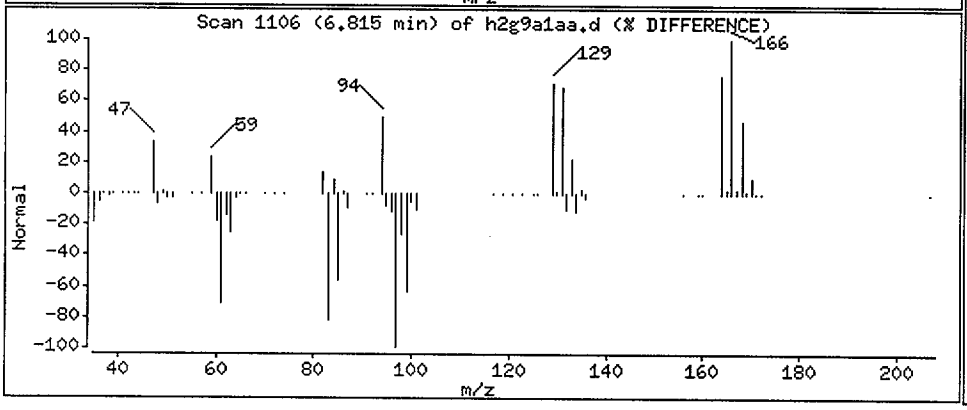












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

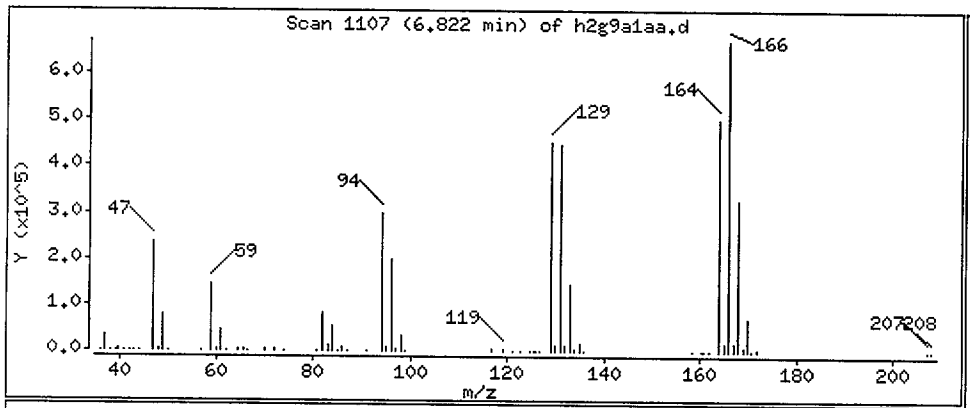
Operator: 22980

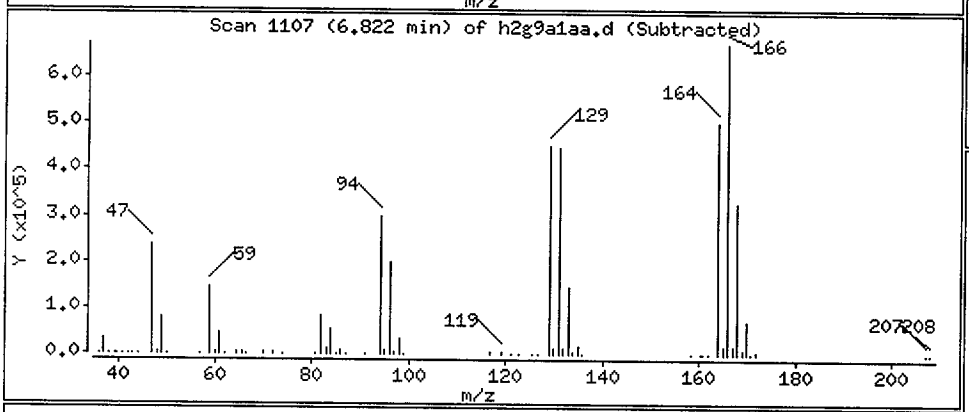
Column phase: J+W 624

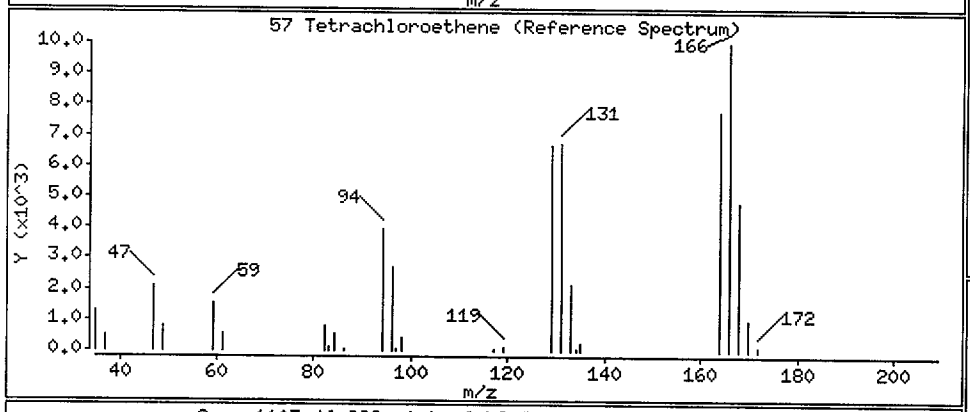
Column diameter: 0.18

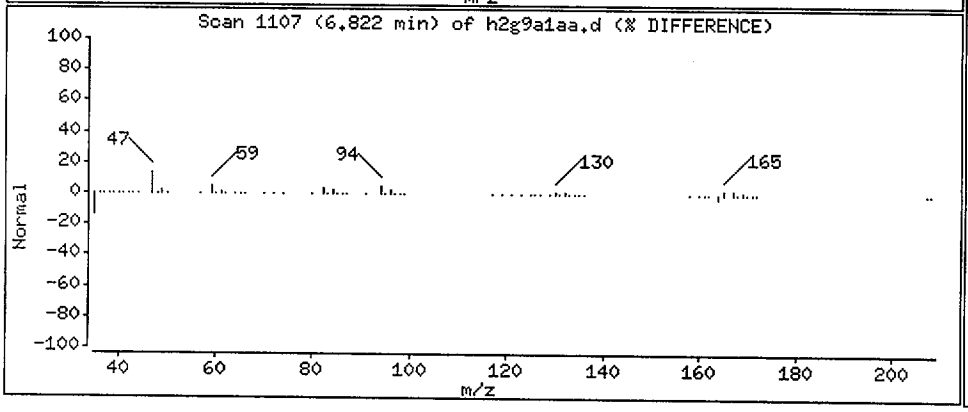
57 Tetrachloroethene

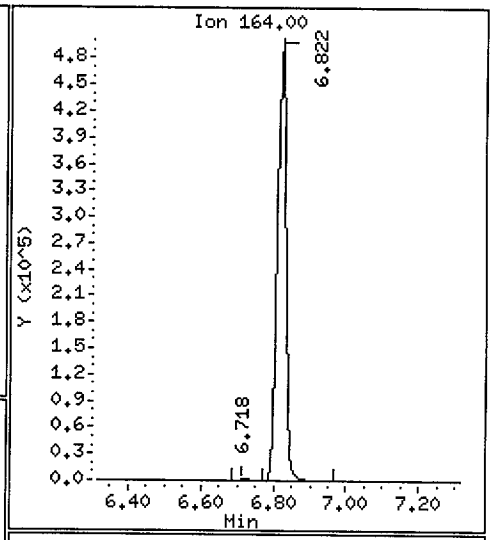
Concentration: 0.68093 ug

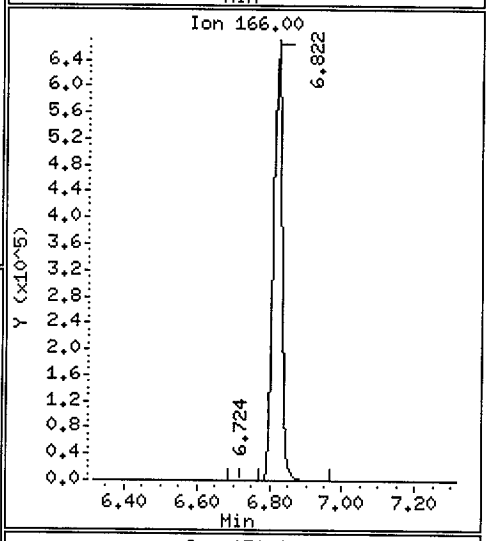


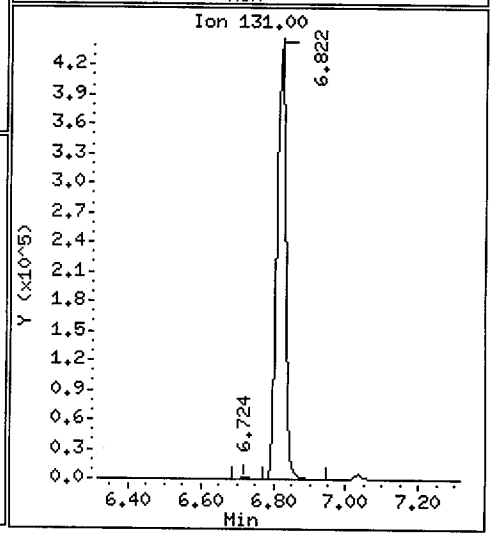












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

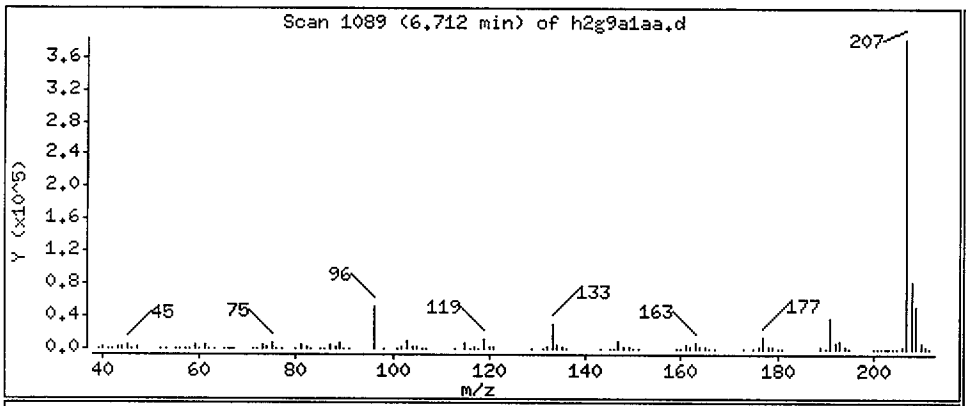
Operator: 22980

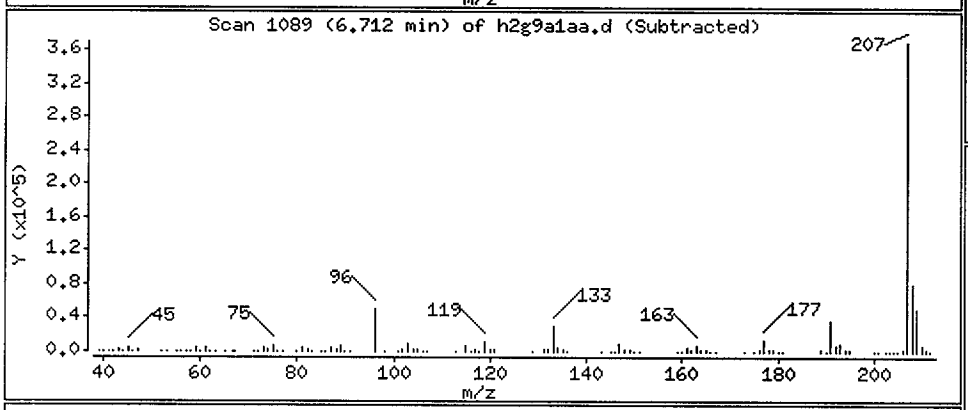
Column phase: J+W 624

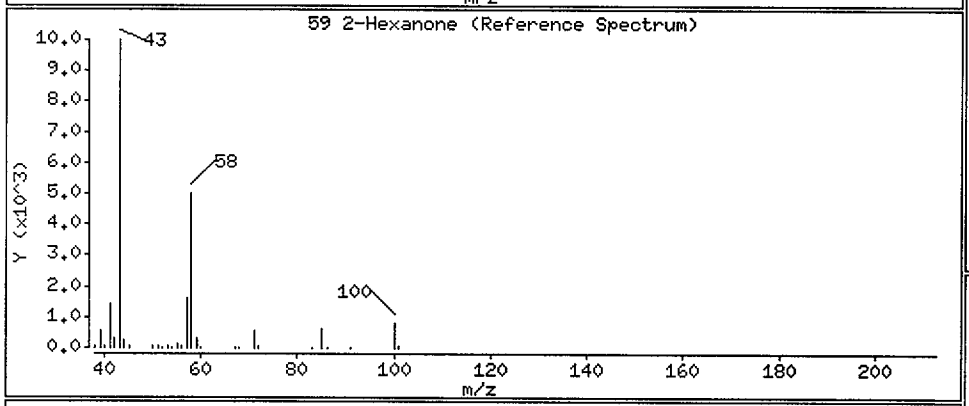
Column diameter: 0.18

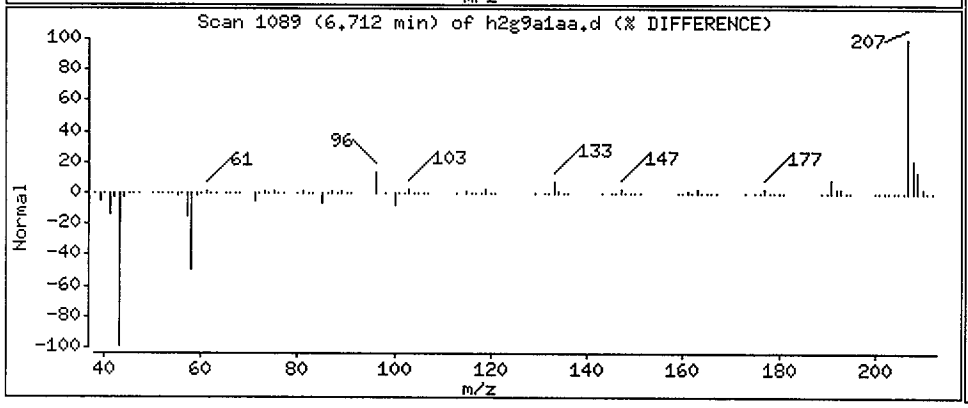
59 2-Hexanone

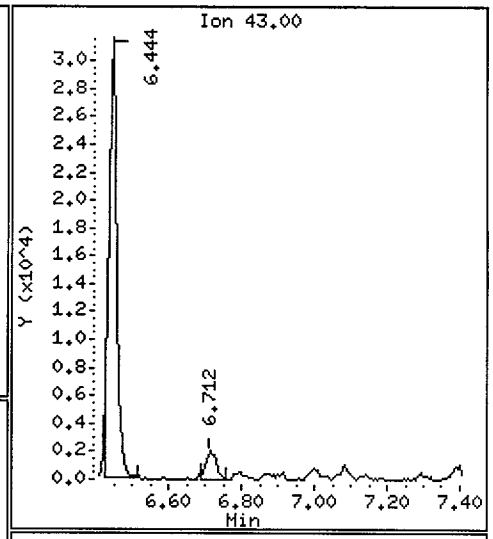
Concentration: 0.021934 ug

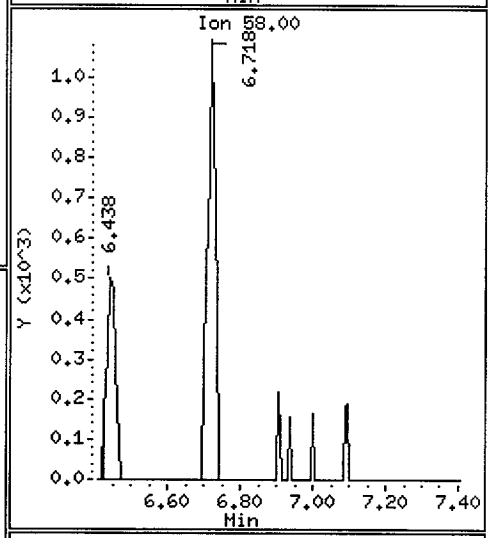


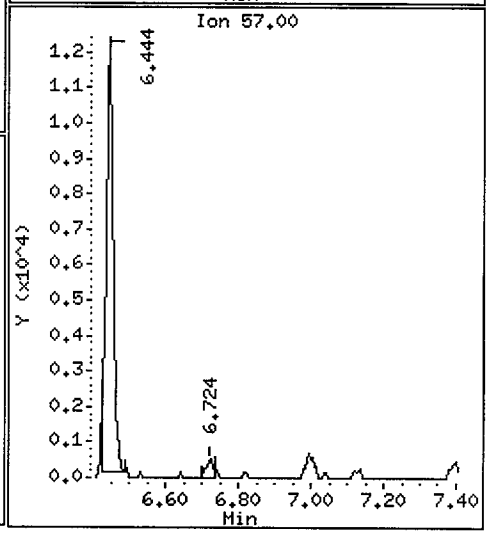












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

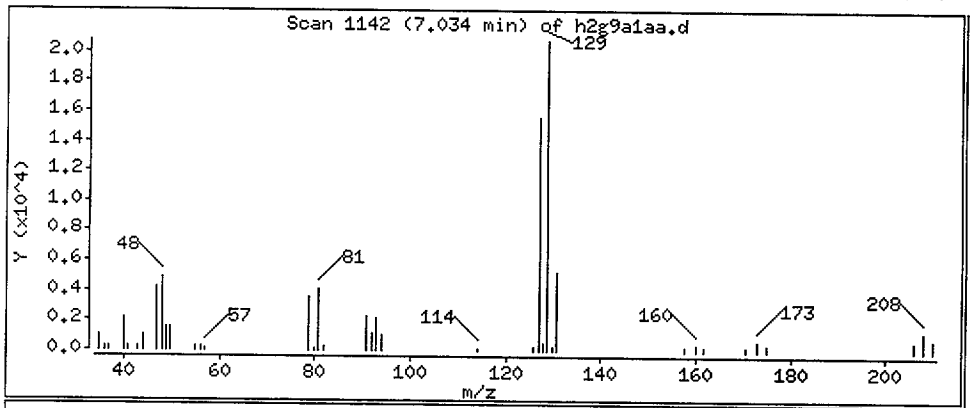
Operator: 22980

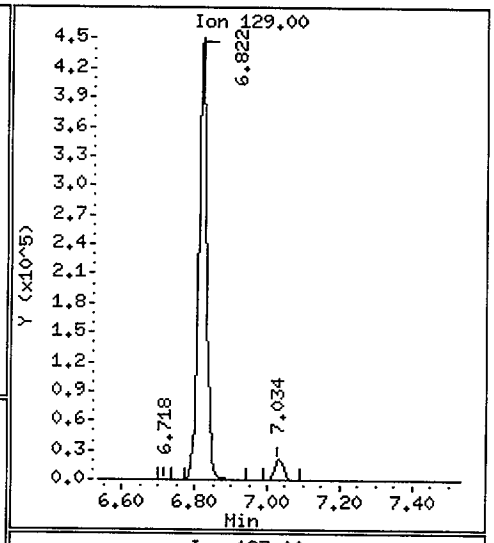
Column phase: J+W 624

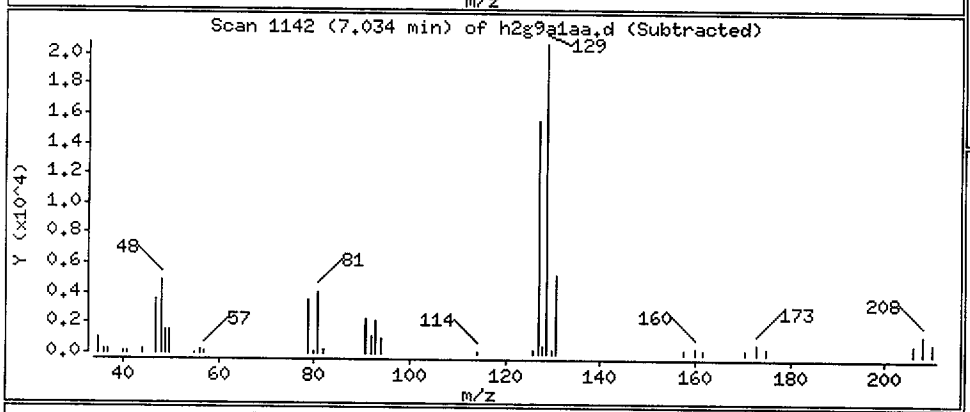
Column diameter: 0.18

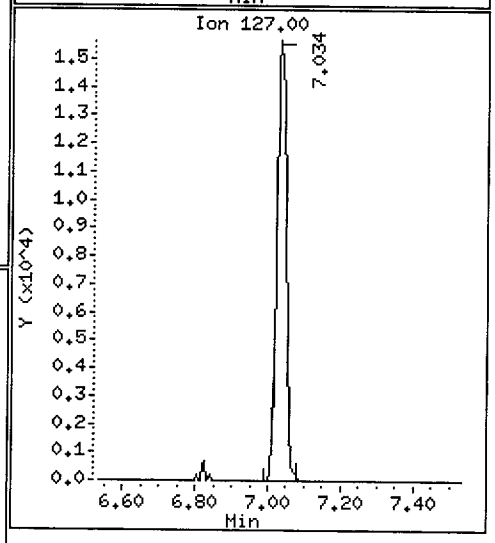
60 Chlorodibromomethane

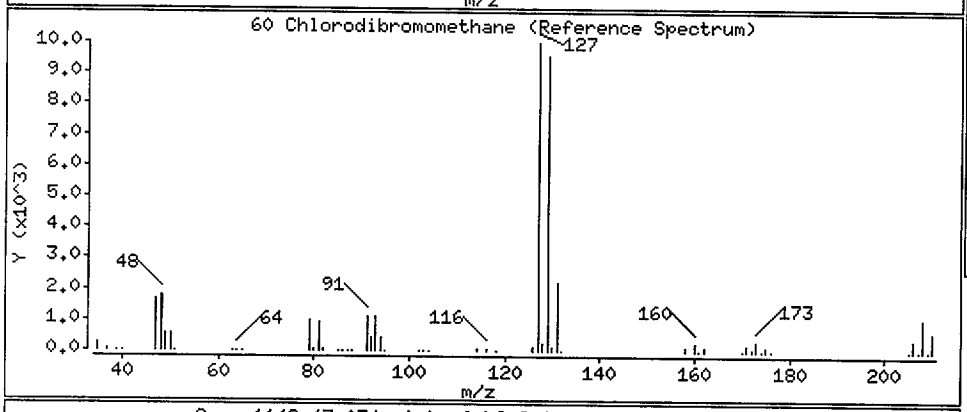
Concentration: 0.063094 ug

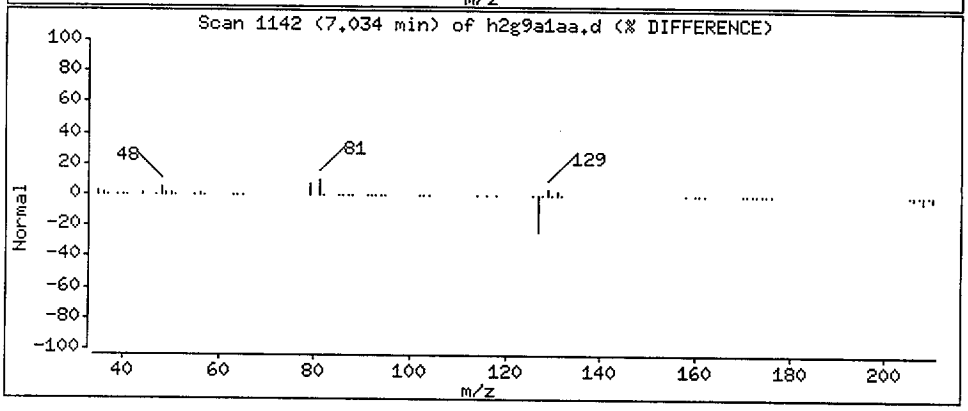












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

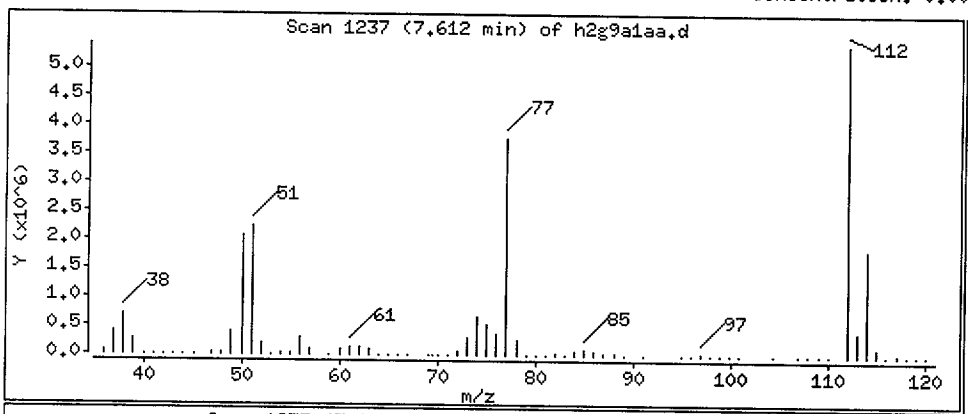
Operator: 22980

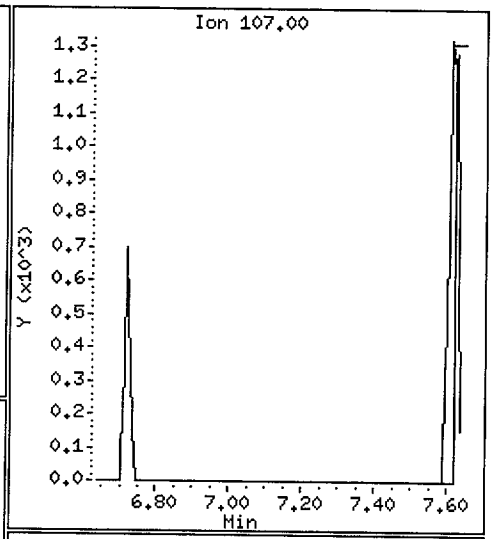
Column phase: J+W 624

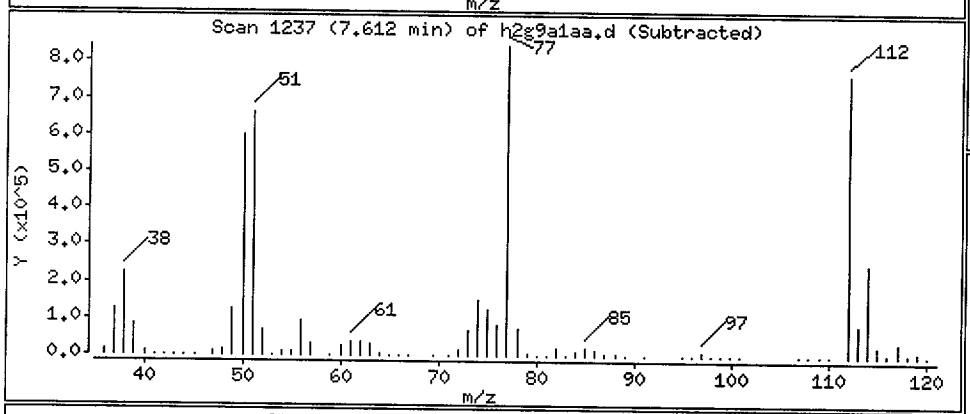
Column diameter: 0.18

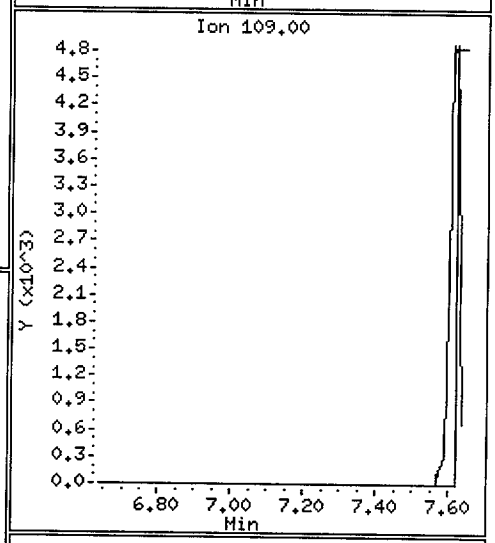
61 1,2-Dibromoethane

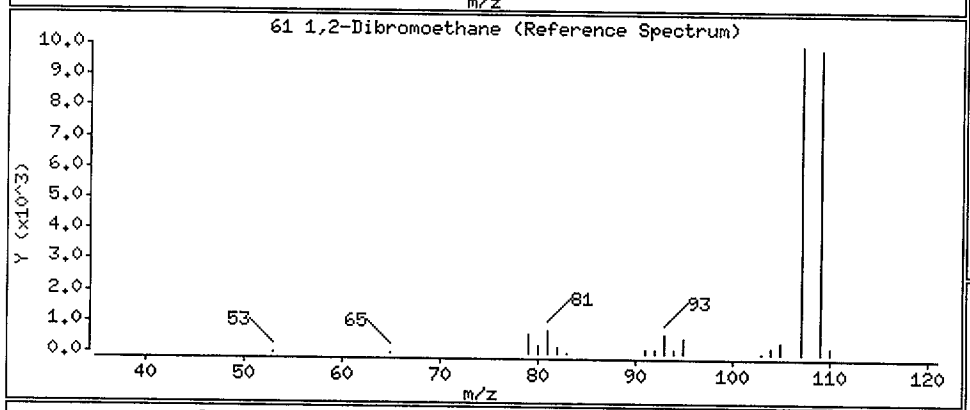
Concentration: 0.0036523 ug

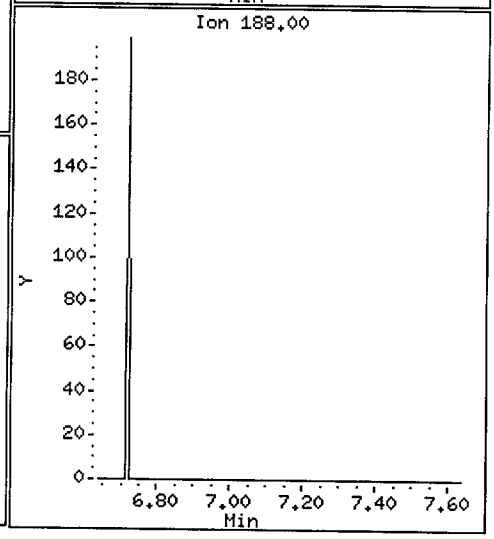


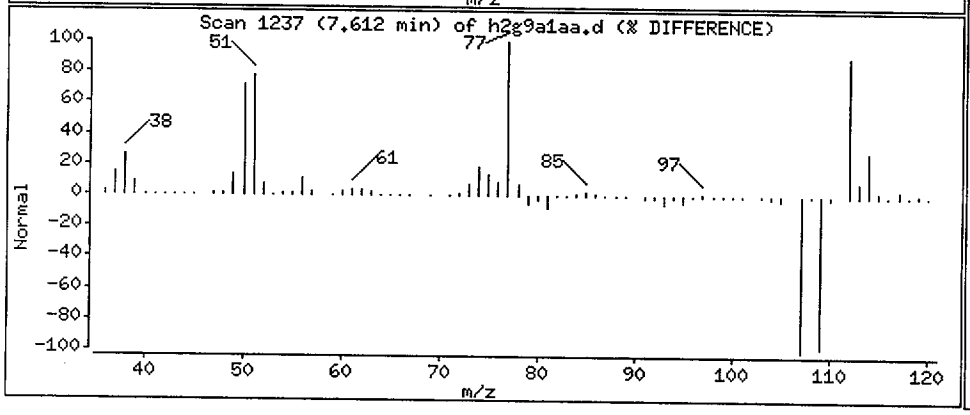












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

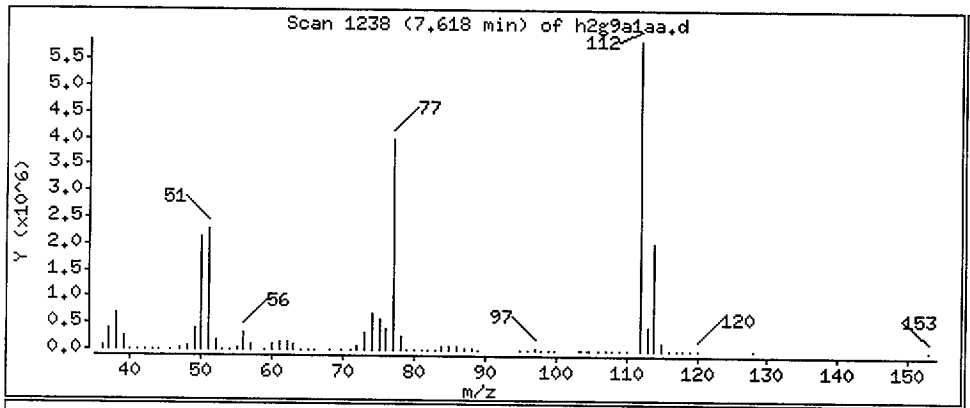
Operator: 22980

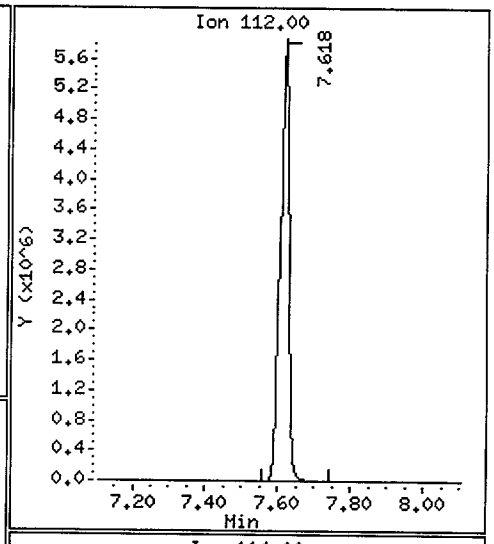
Column phase: J+W 624

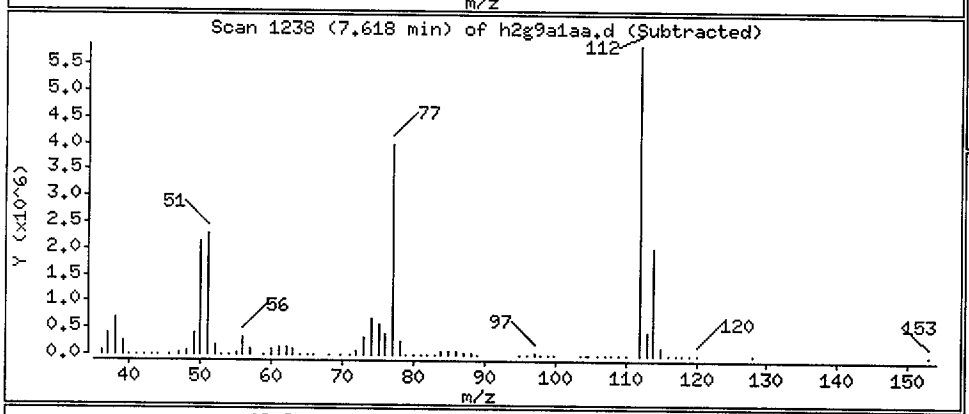
Column diameter: 0.18

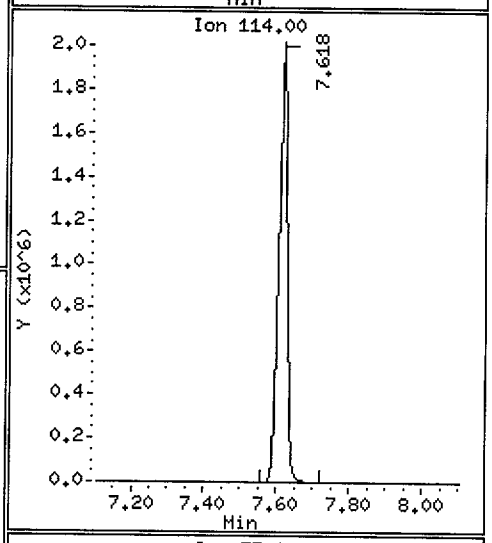
62 Chlorobenzene (spcc)

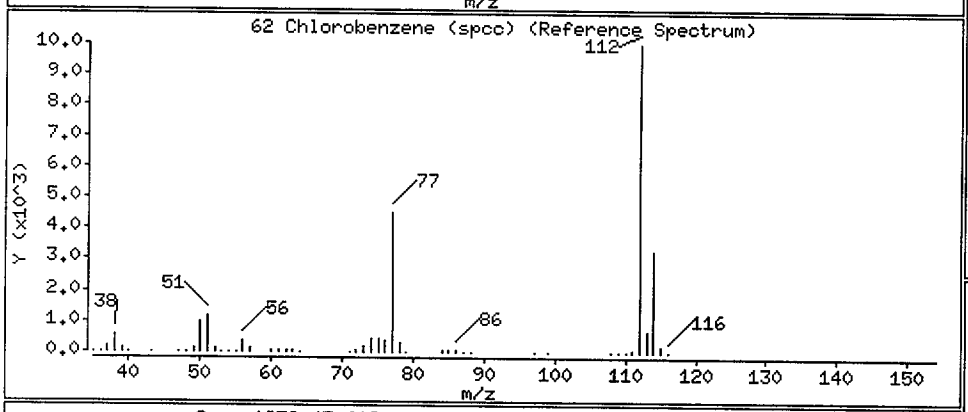
Concentration: 3.4766 ug

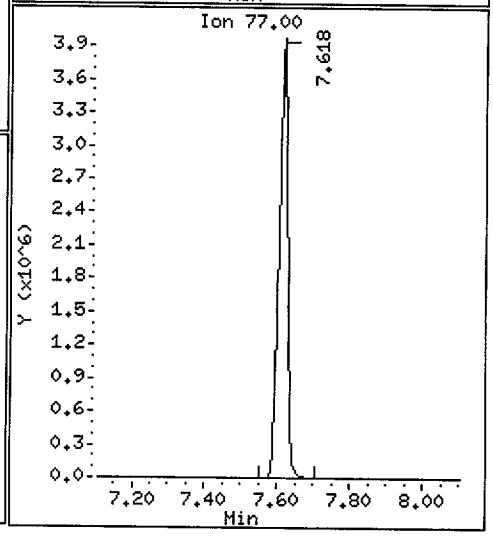


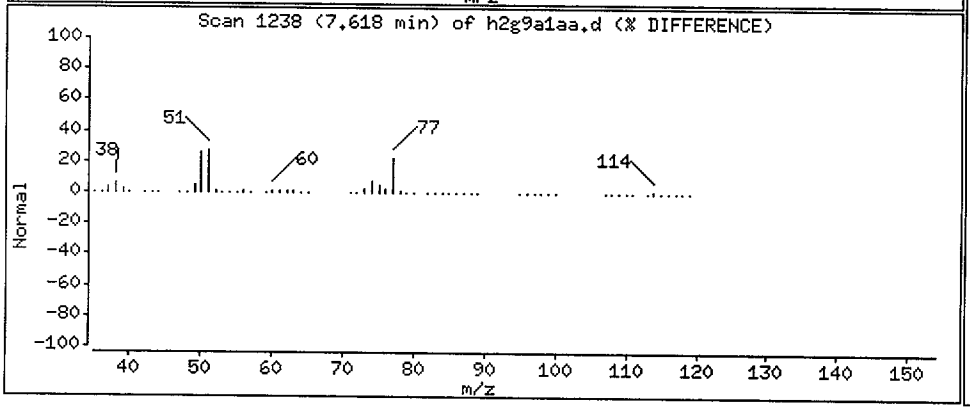












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

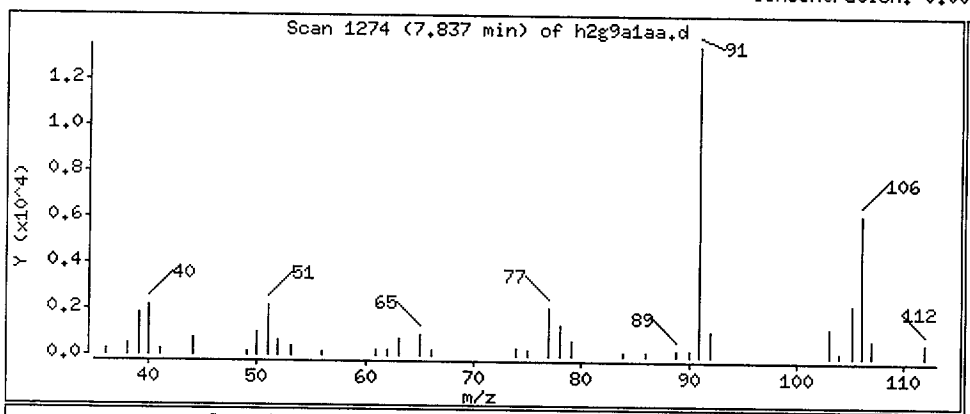
Operator: 22980

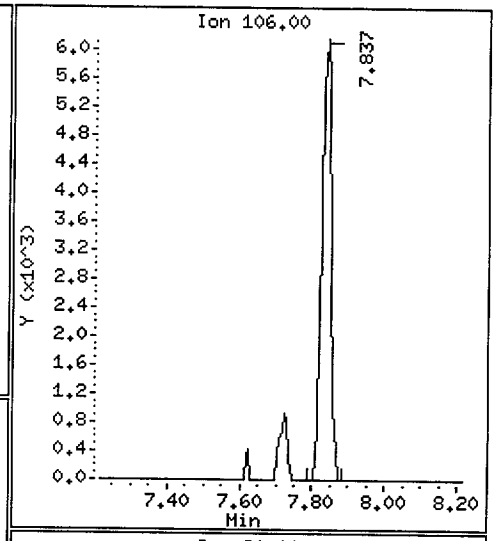
Column phase: J+W 624

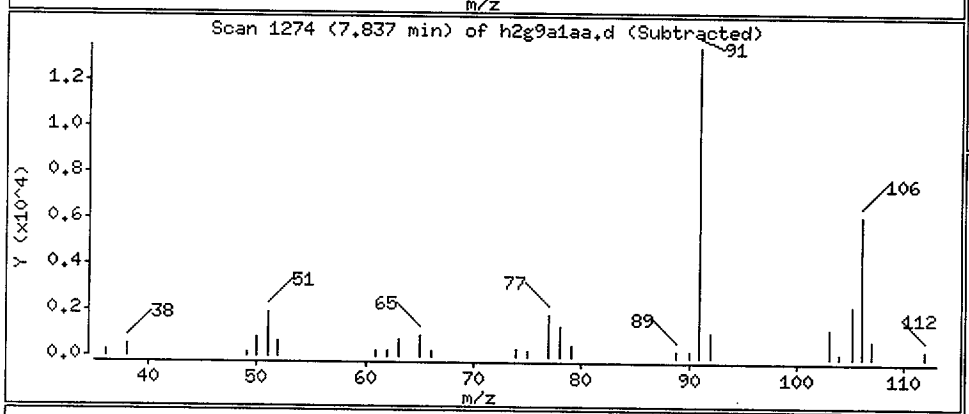
Column diameter: 0.18

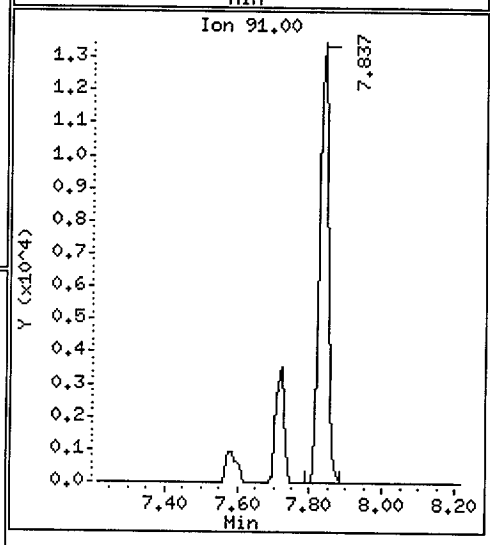
64 Ethylbenzene (ccc)

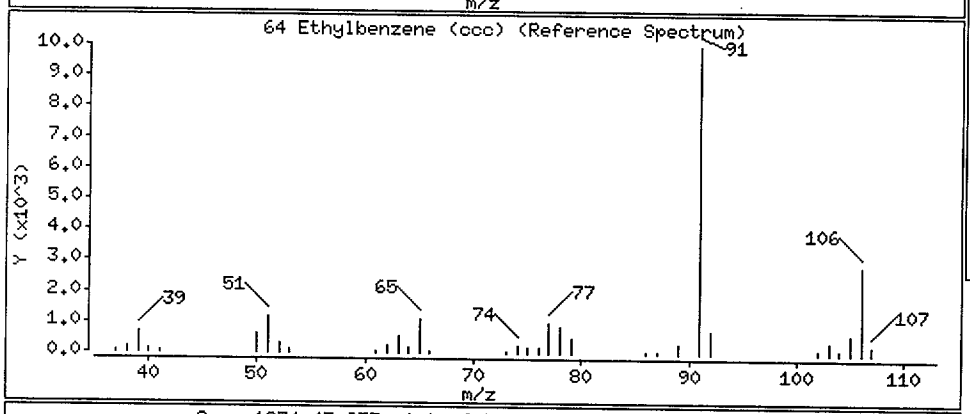
Concentration: 0.0053397 ug

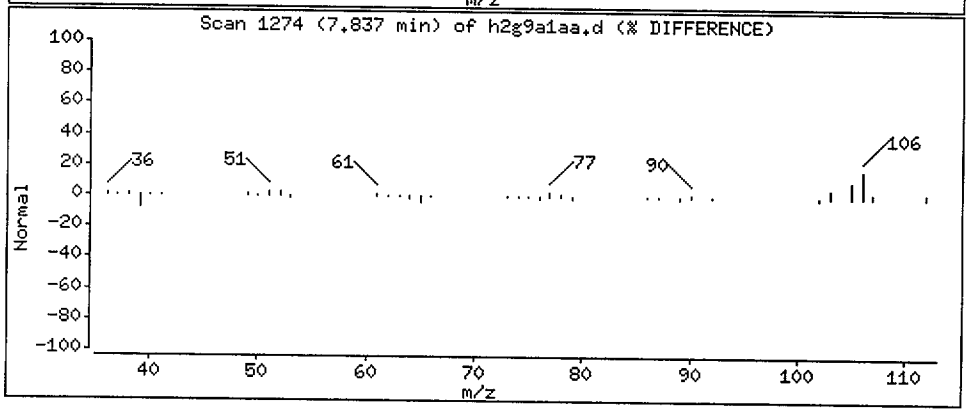












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

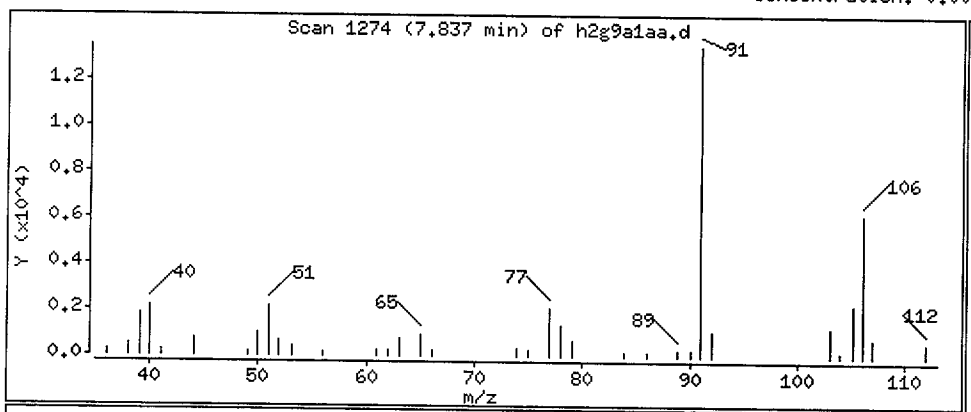
Operator: 22980

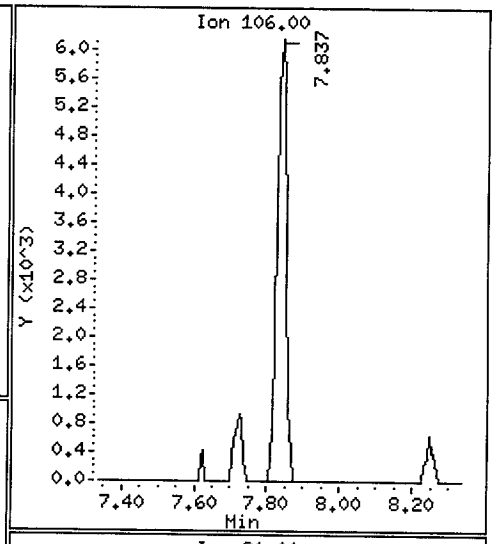
Column phase: J+W 624

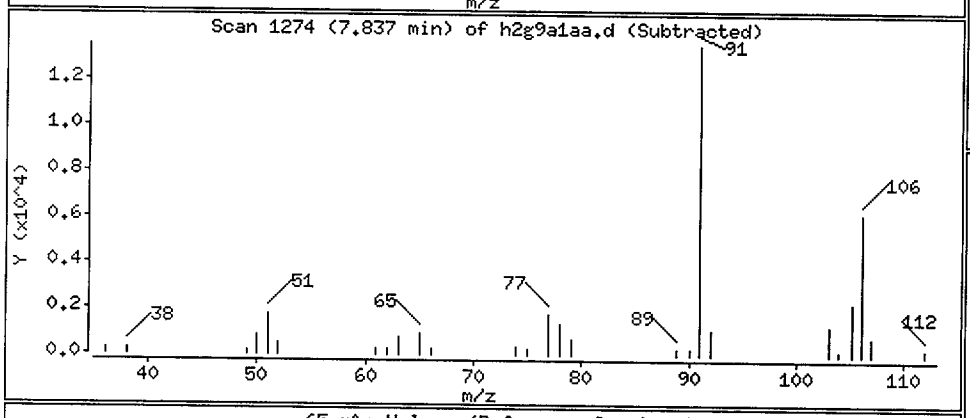
Column diameter: 0.18

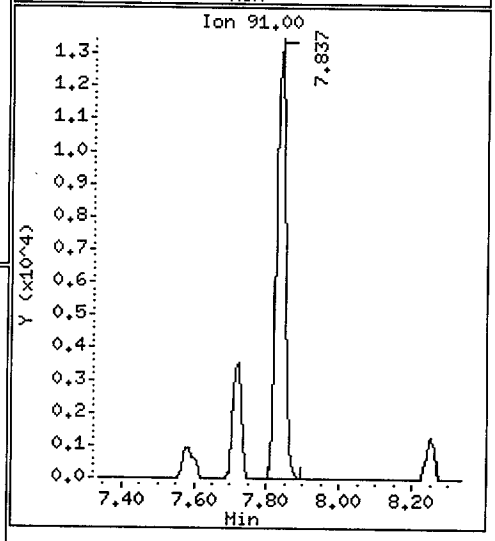
65 m&p-Xylene

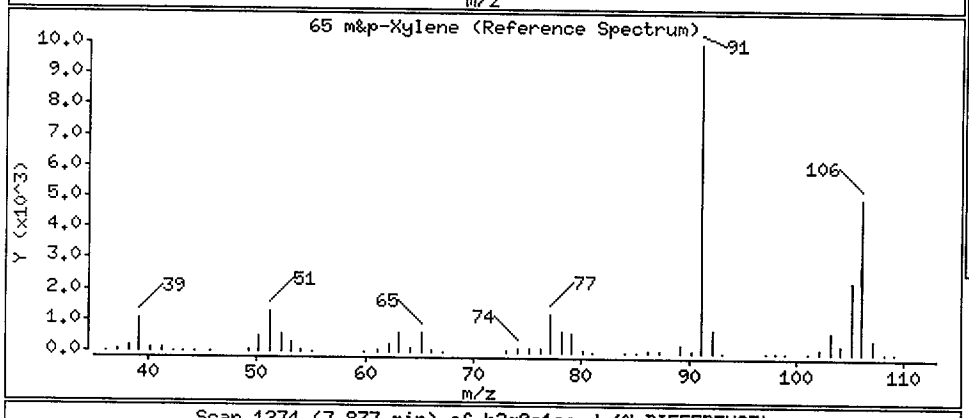
Concentration: 0.0045562 ug

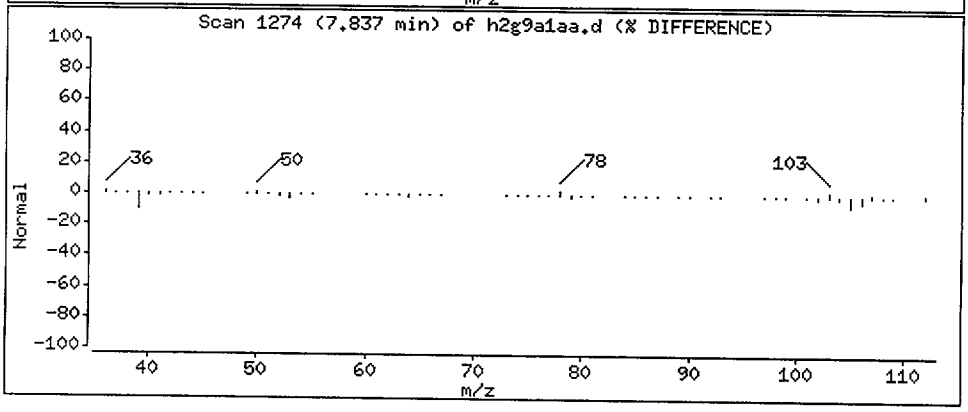












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

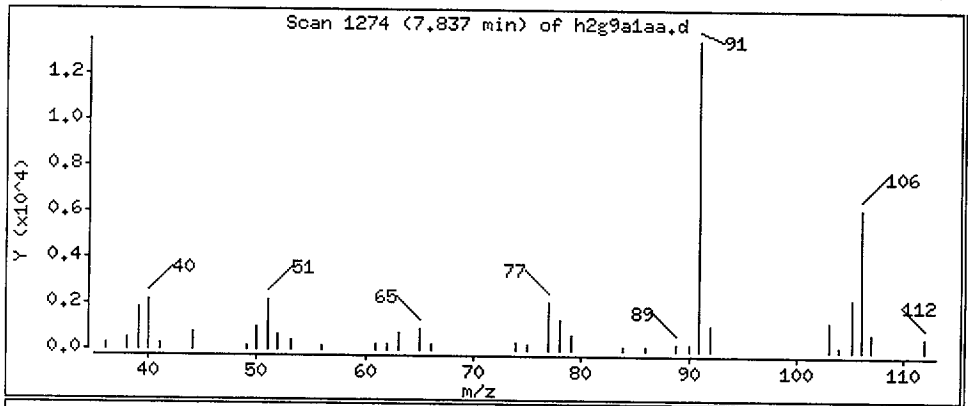
Operator: 22980

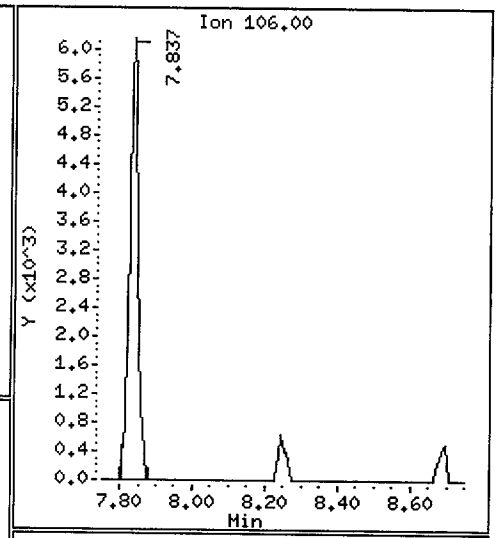
Column phase: J+W 624

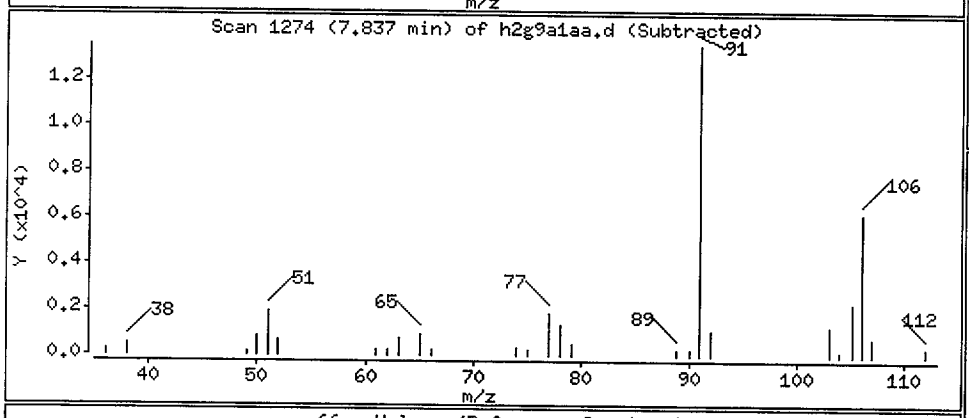
Column diameter: 0.18

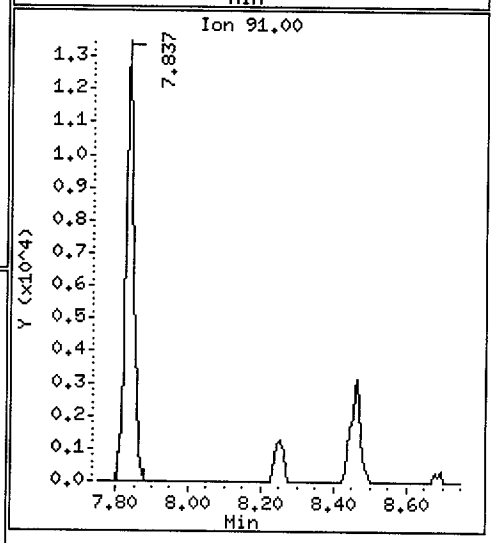
66 o-Xylene

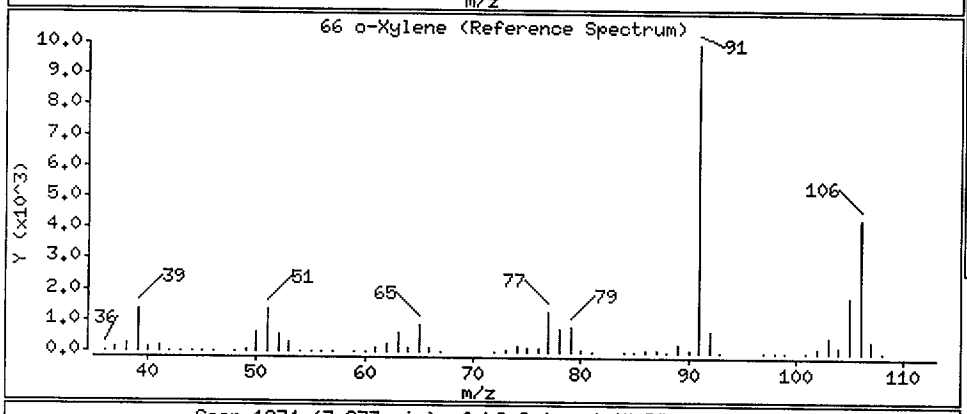
Concentration: 0.0053147 ug

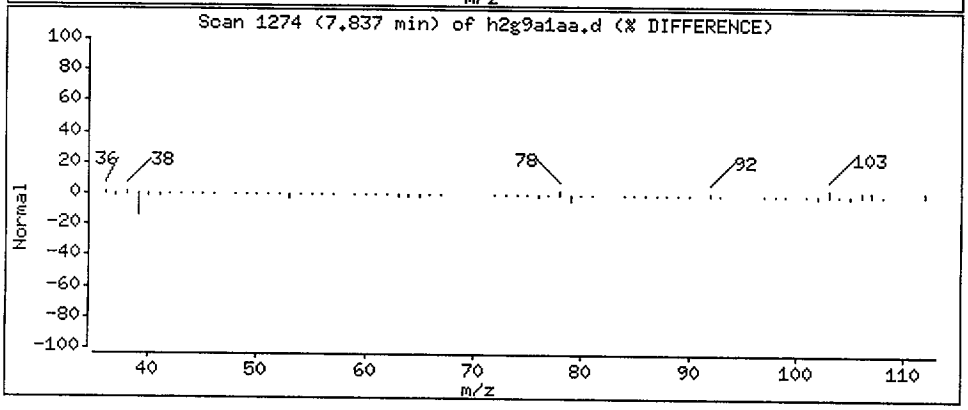












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

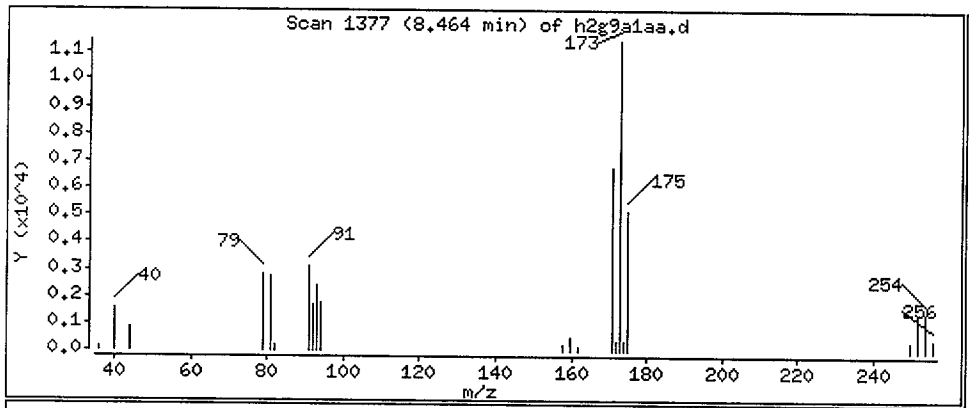
Operator: 22980

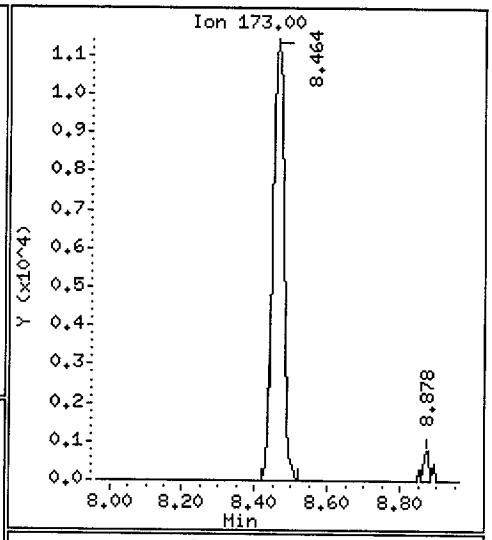
Column phase: J+W 624

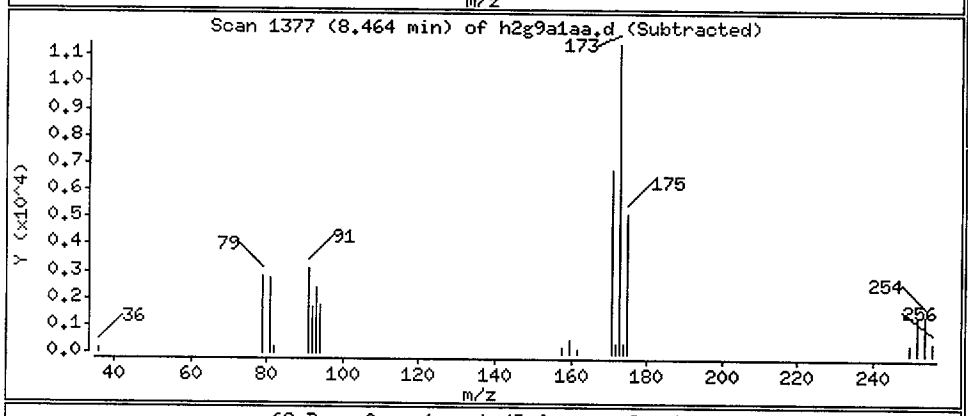
Column diameter: 0.18

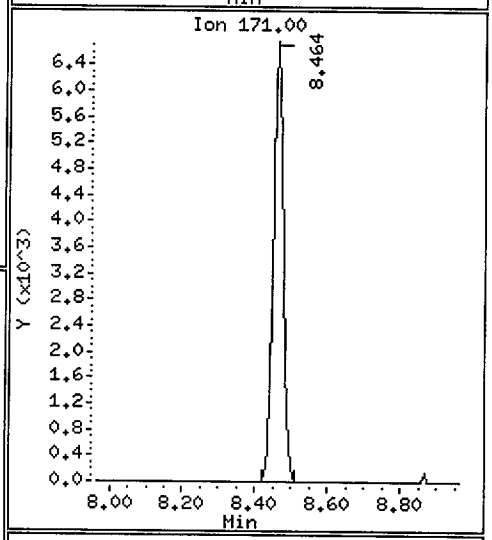
68 Bromoform (spcc)

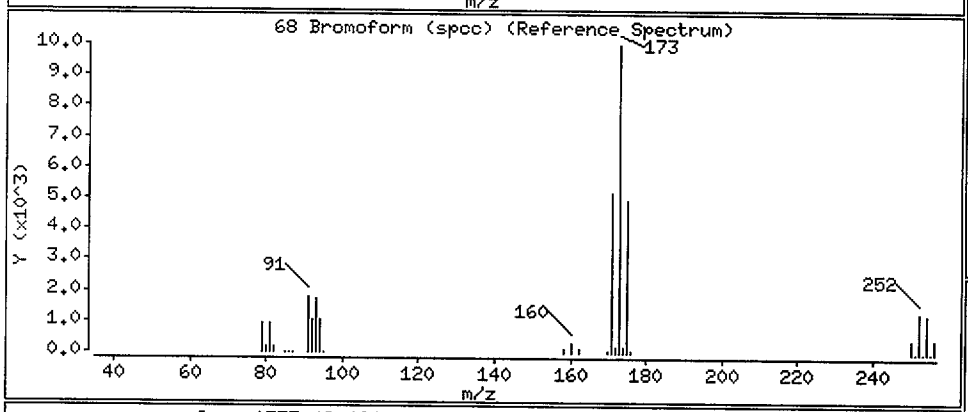
Concentration: 0.090963 ug

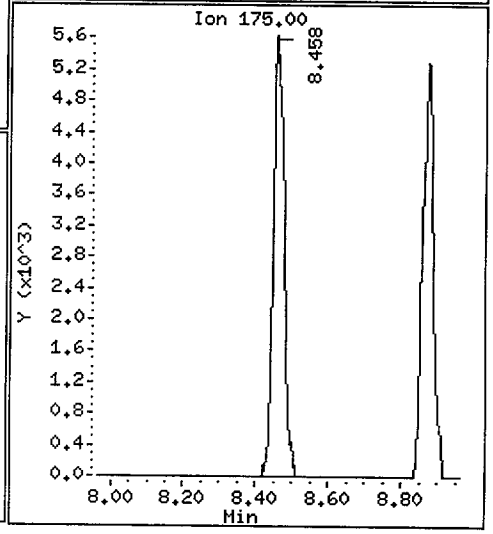


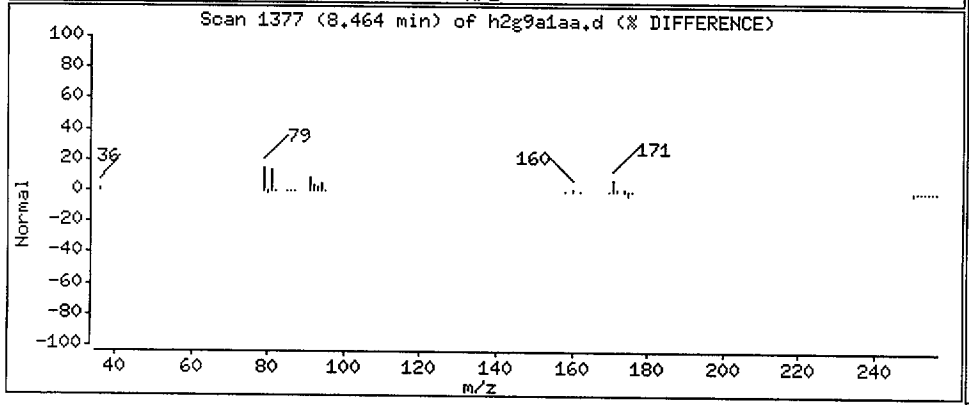












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

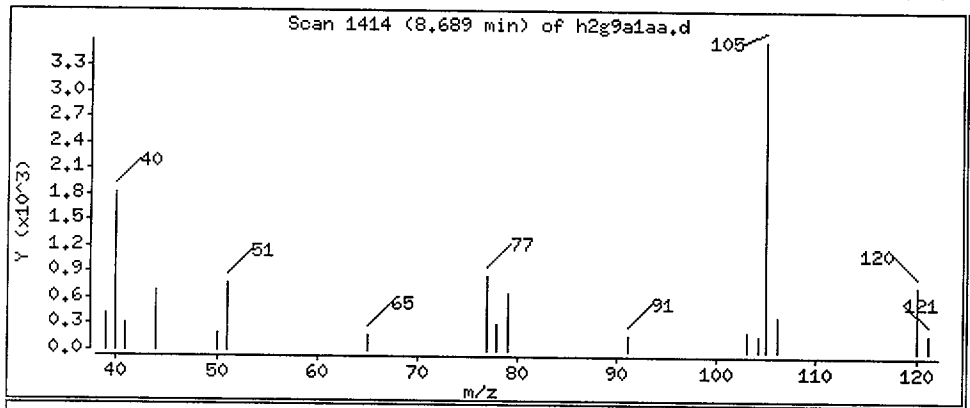
Operator: 22980

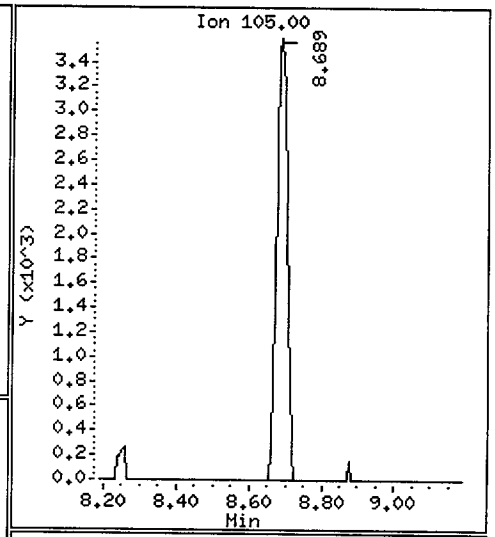
Column phase: J+W 624

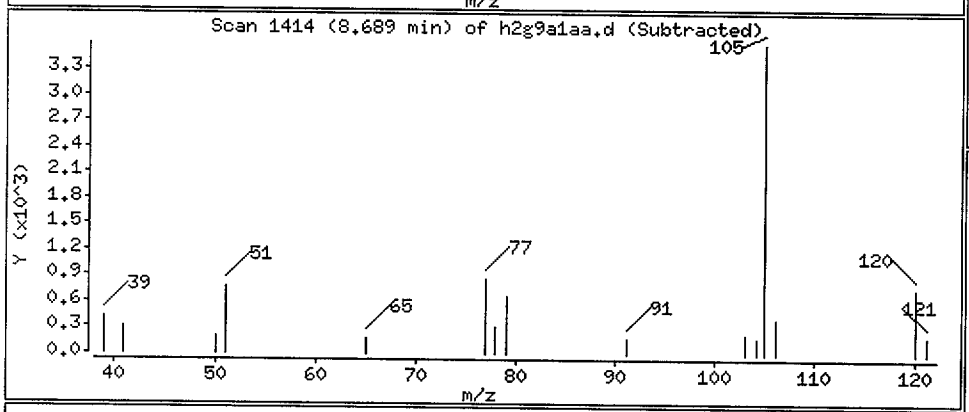
Column diameter: 0.18

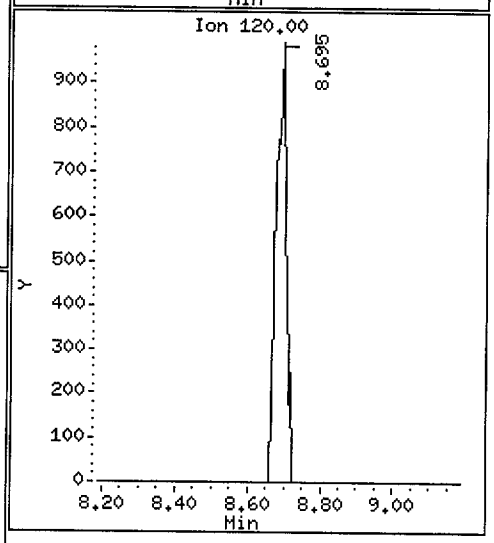
69 Isopropylbenzene

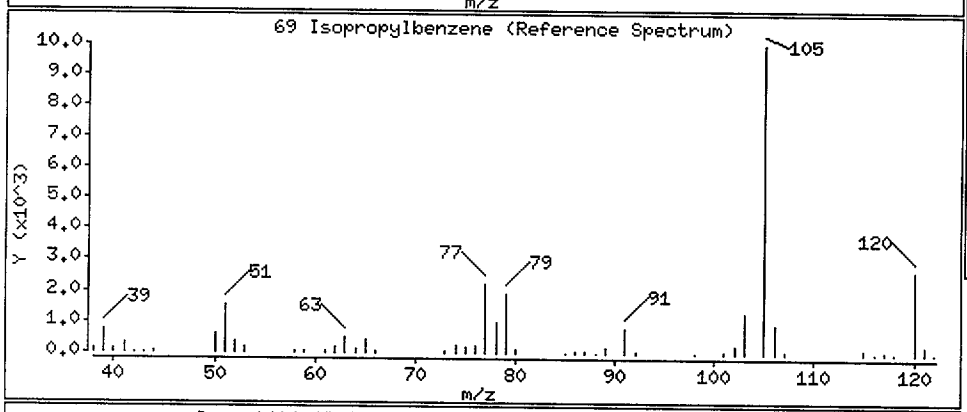
Concentration: 0.0011381 ug

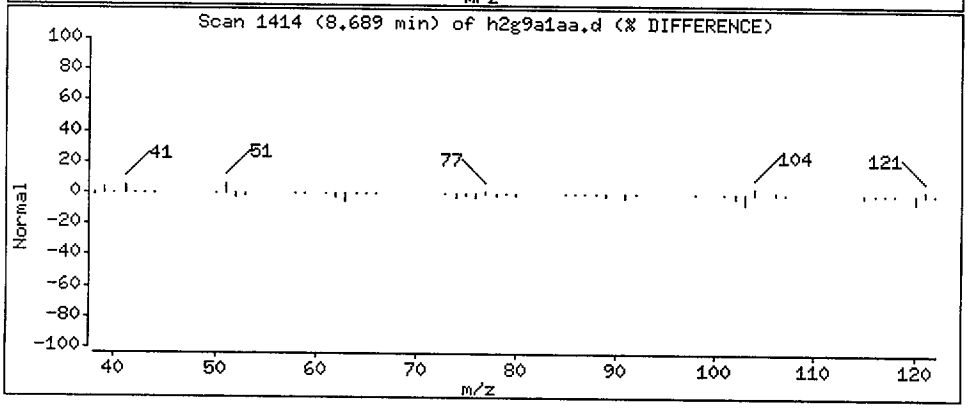












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

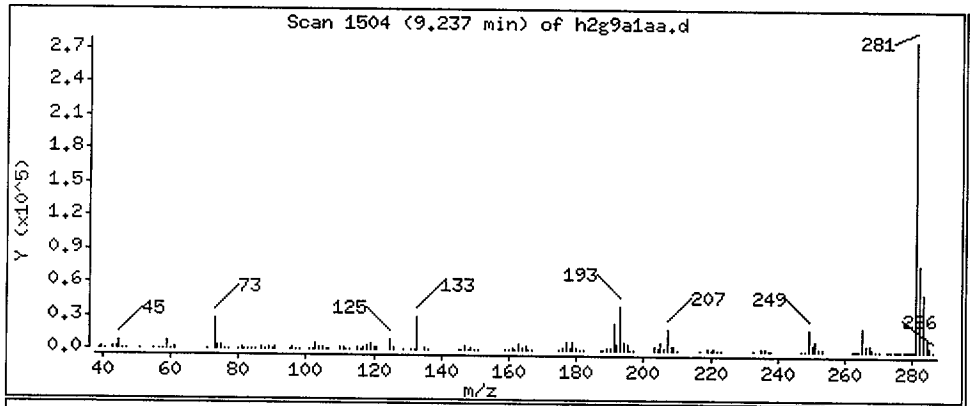
Operator: 22980

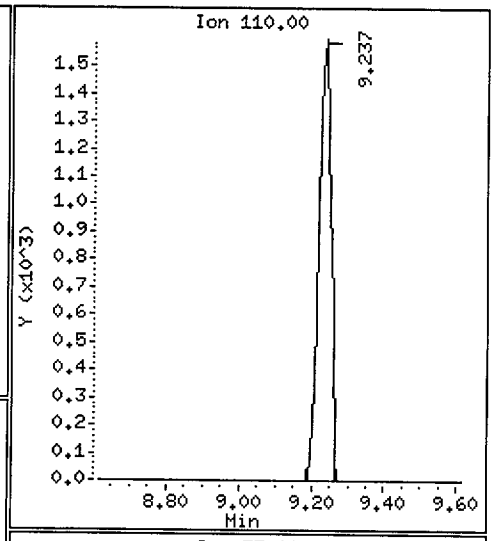
Column phase: J+W 624

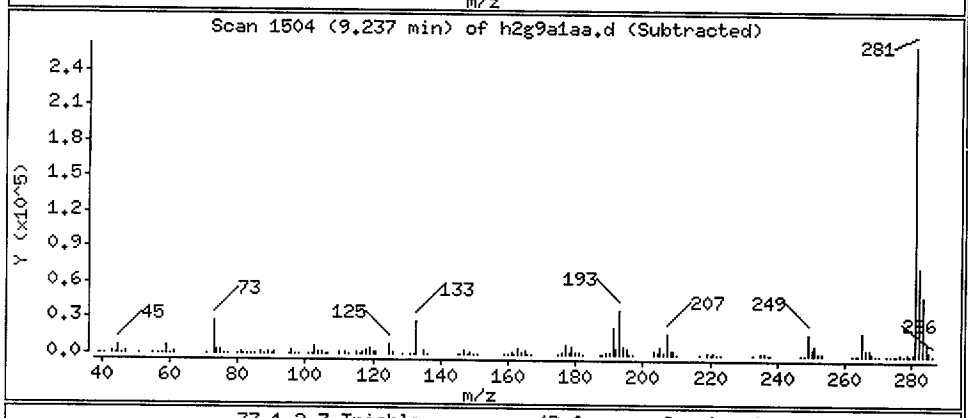
Column diameter: 0.18

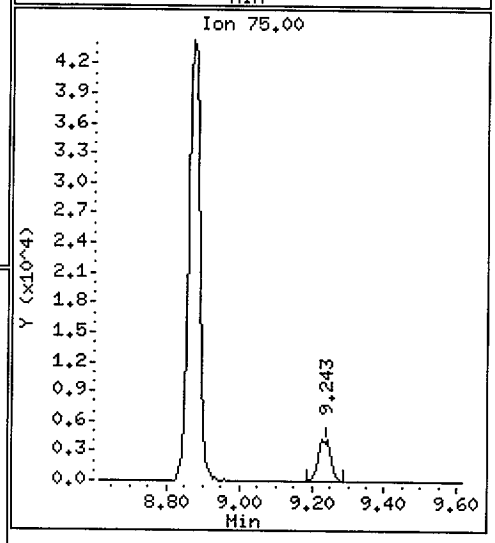
73 1,2,3-Trichloropropane

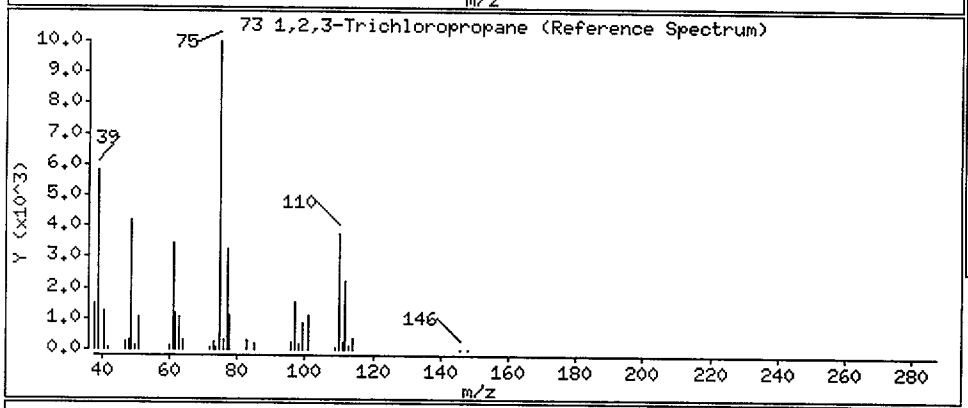
Concentration: 0.038489 ug

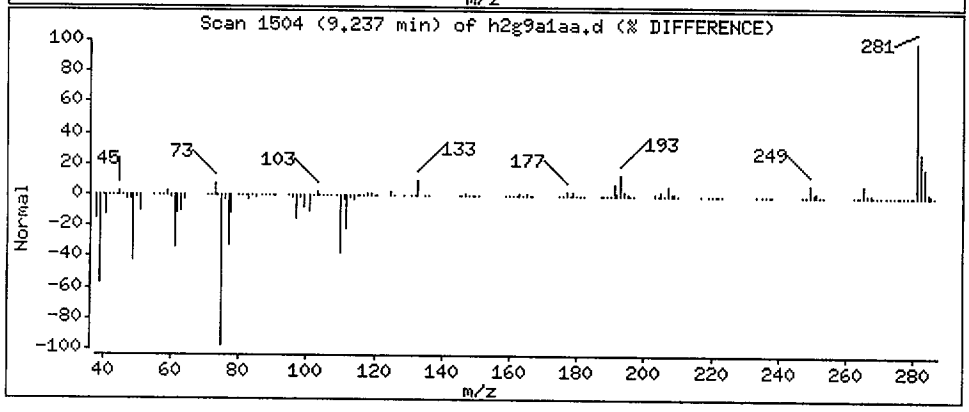












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

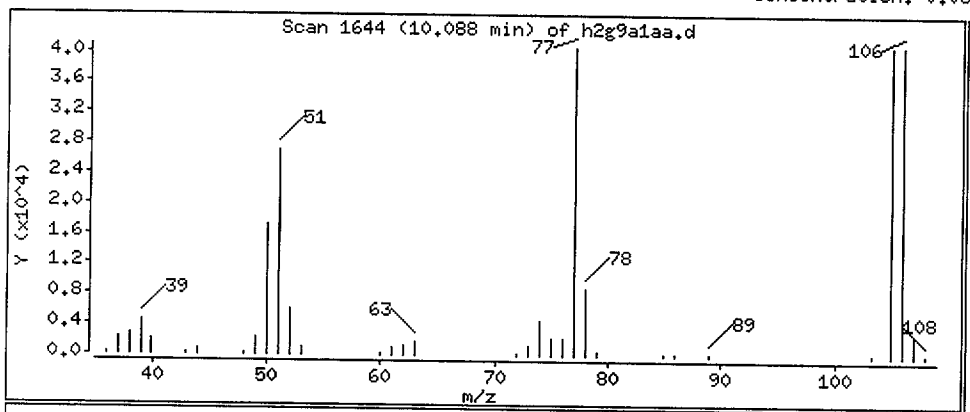
Operator: 22980

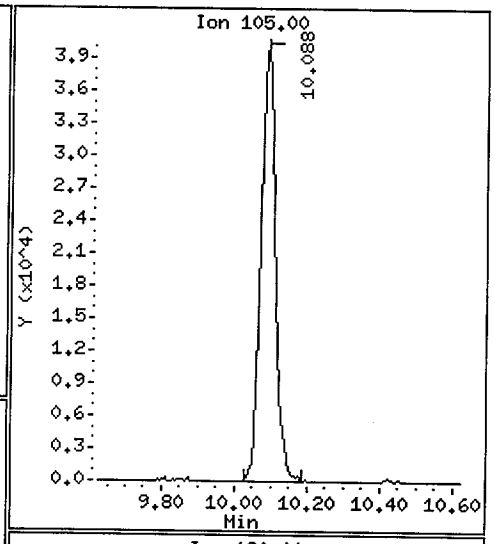
Column phase: J+W 624

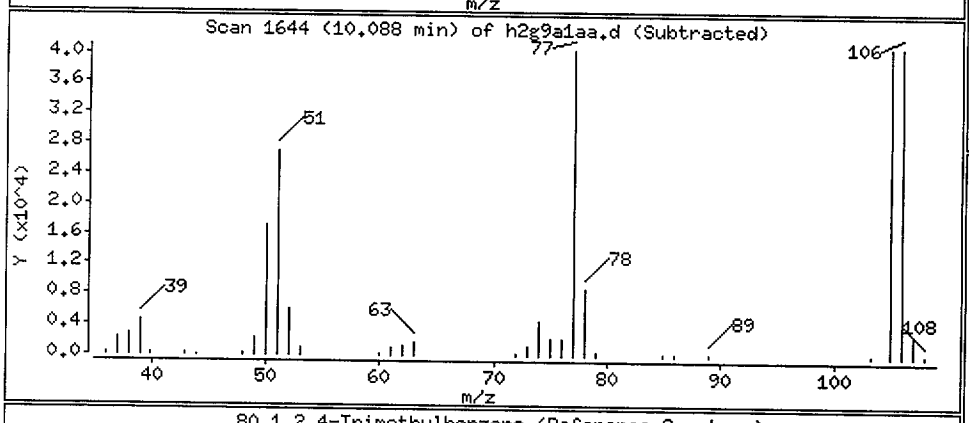
Column diameter: 0.18

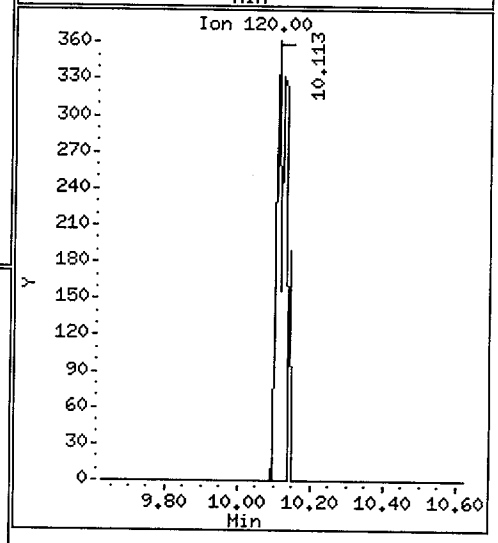
80 1,2,4-Trimethylbenzene

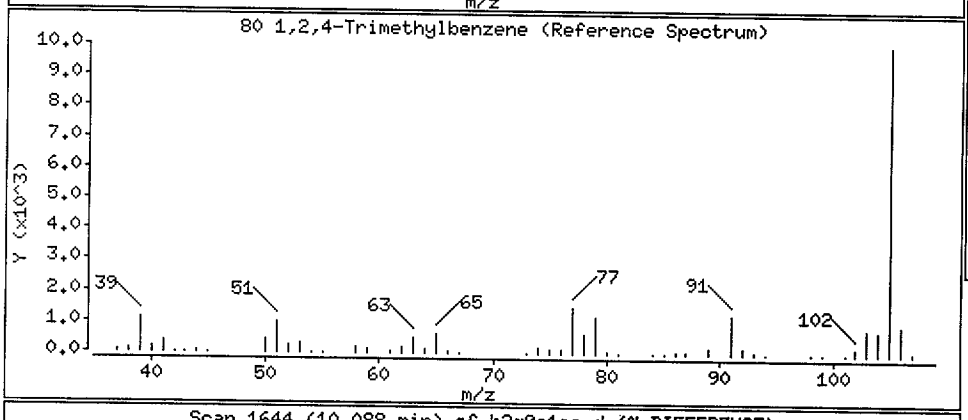
Concentration: 0.033865 ug

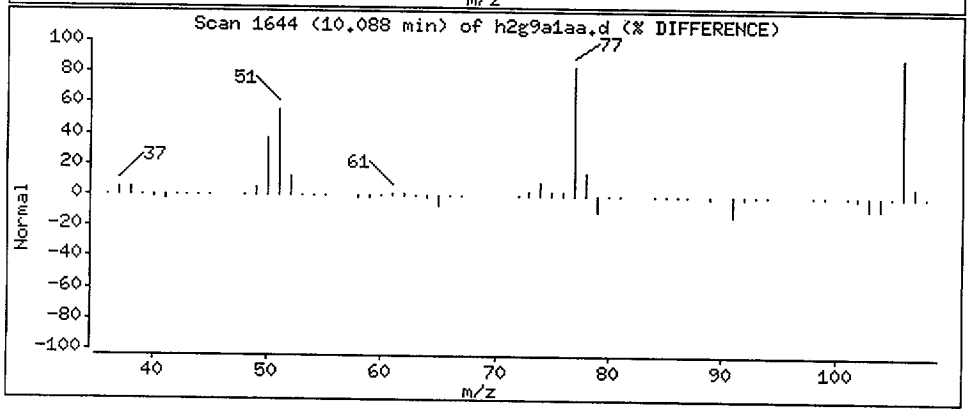












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

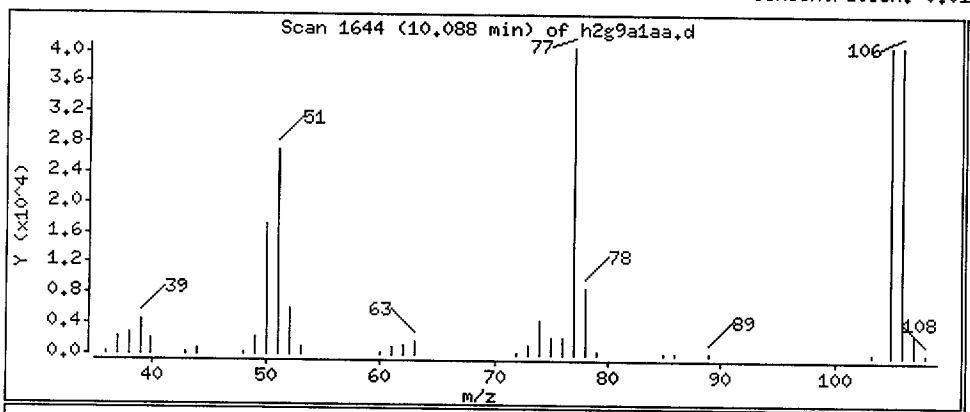
Operator: 22980

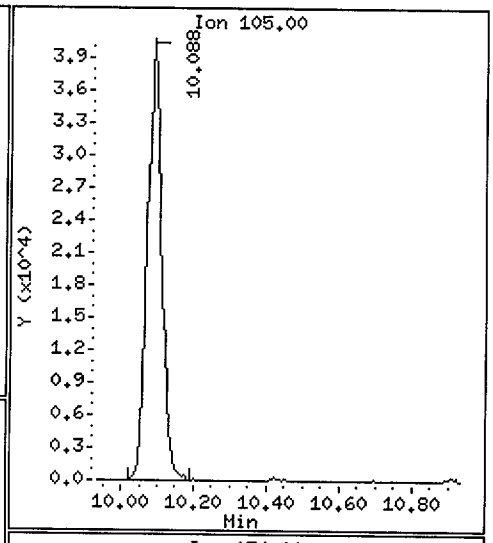
Column phase: J+W 624

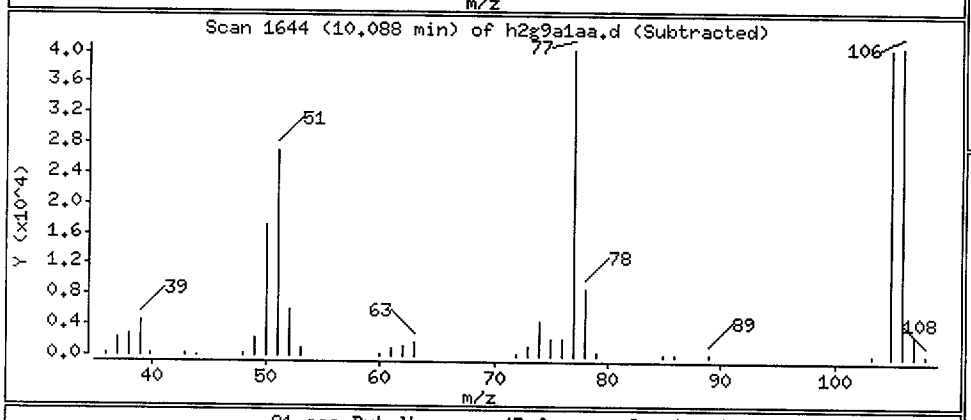
Column diameter: 0.18

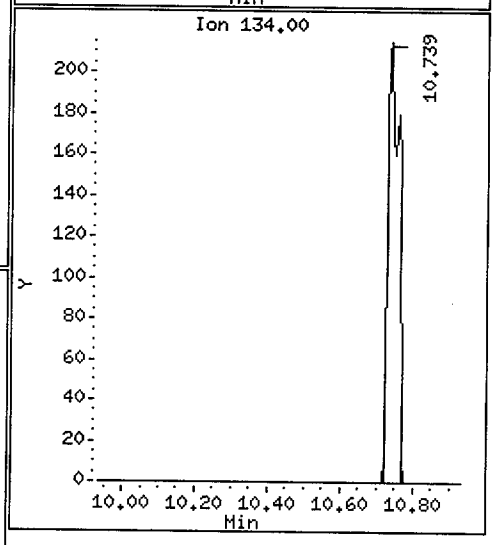
81 sec-Butylbenzene

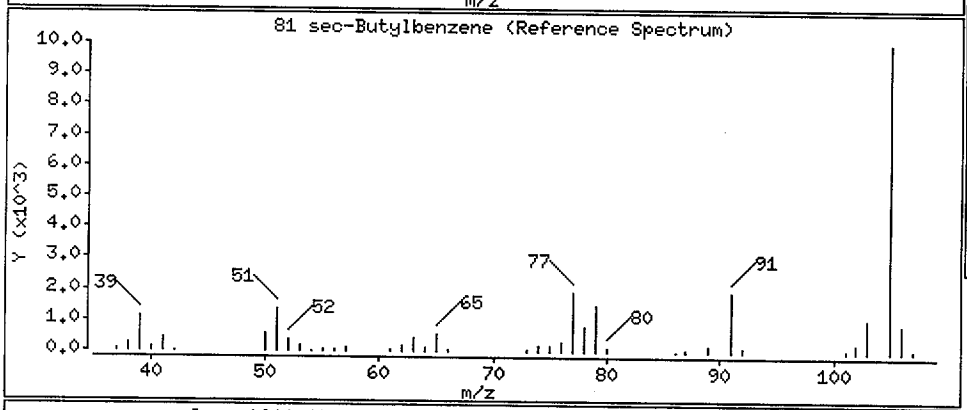
Concentration: 0.019170 ug

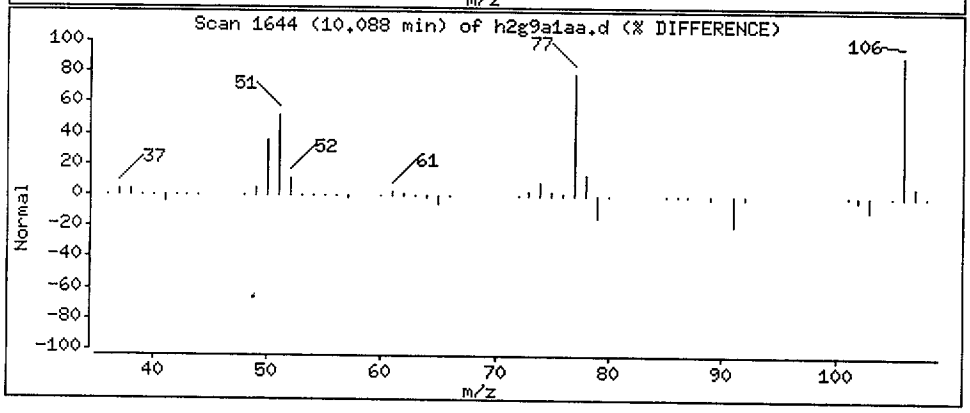












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

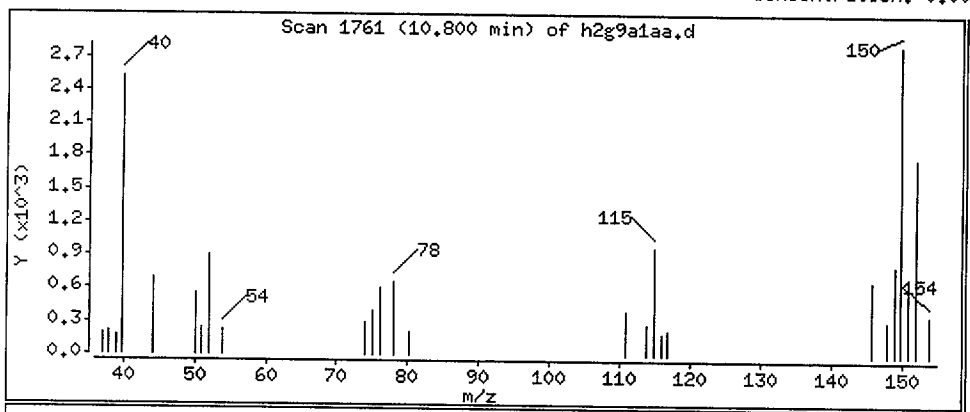
Operator: 22980

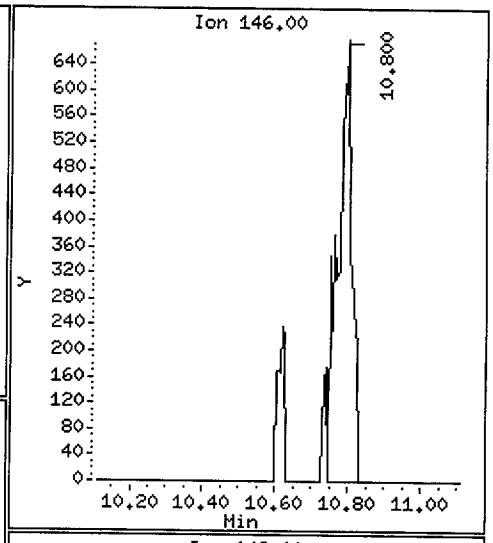
Column phase: J+W 624

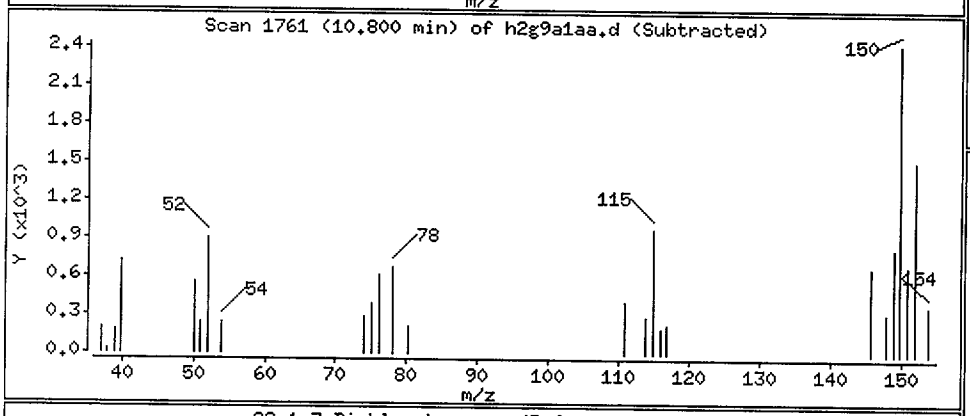
Column diameter: 0.18

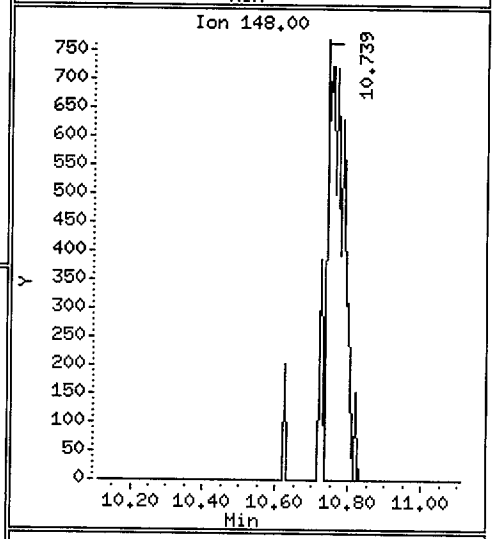
82 1,3-Dichlorobenzene

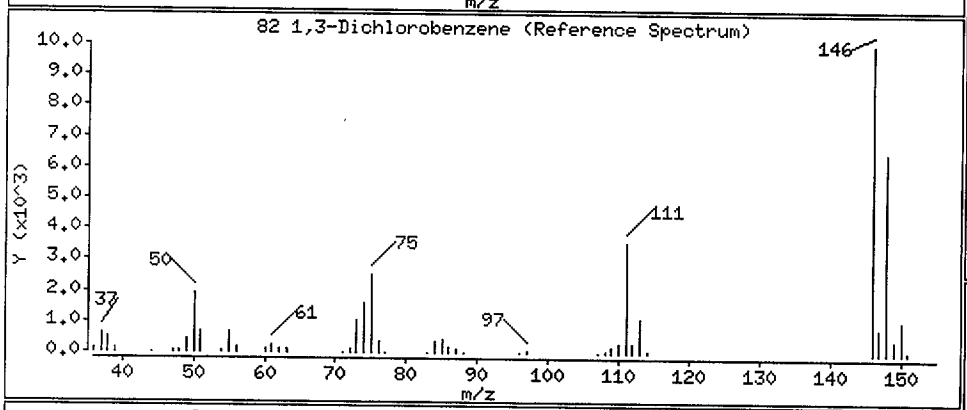
Concentration: 0.0010644 ug

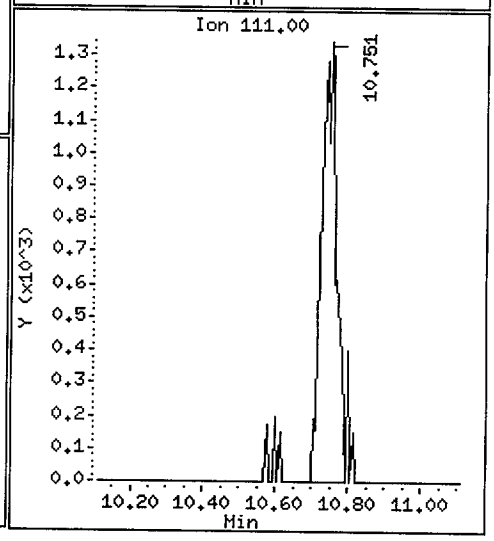


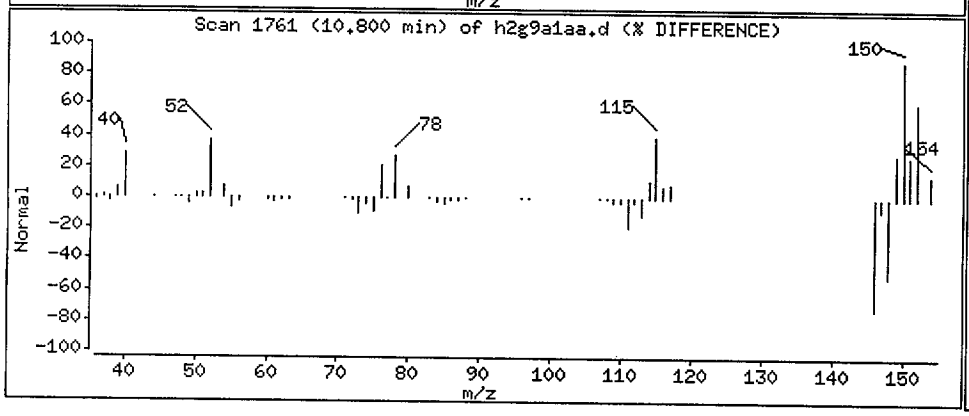












Data File: /chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

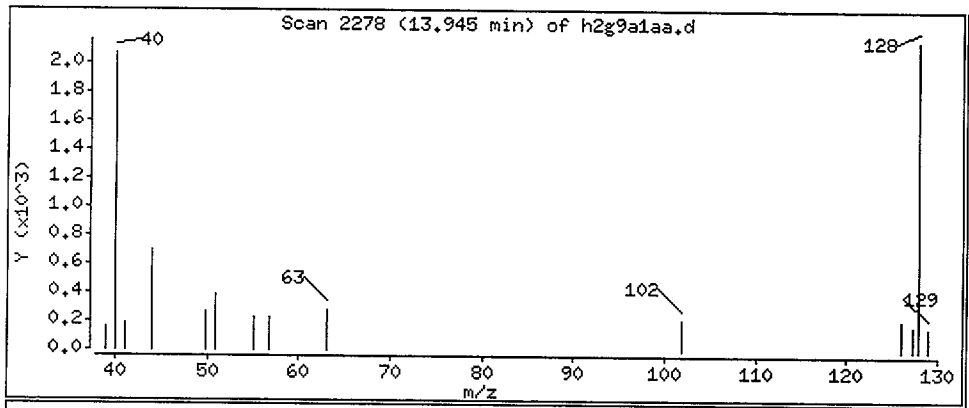
Operator: 22980

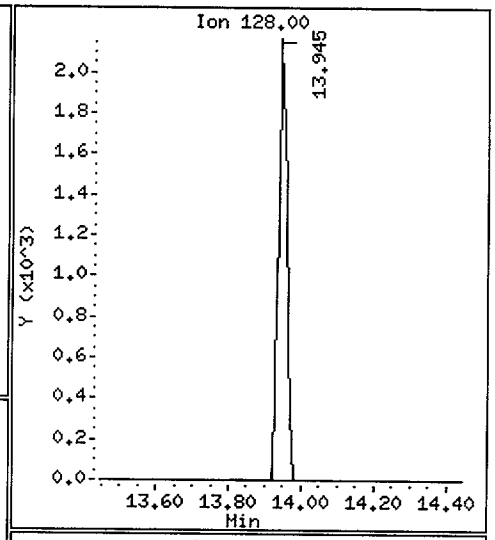
Column phase: J+W 624

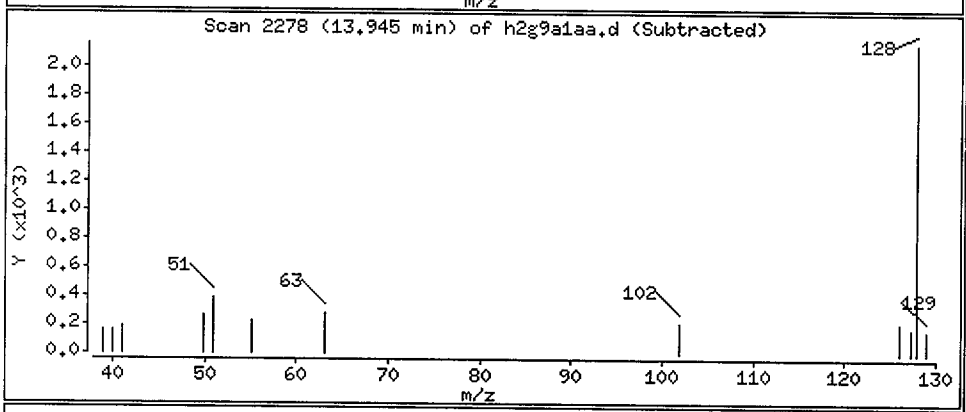
Column diameter: 0.18

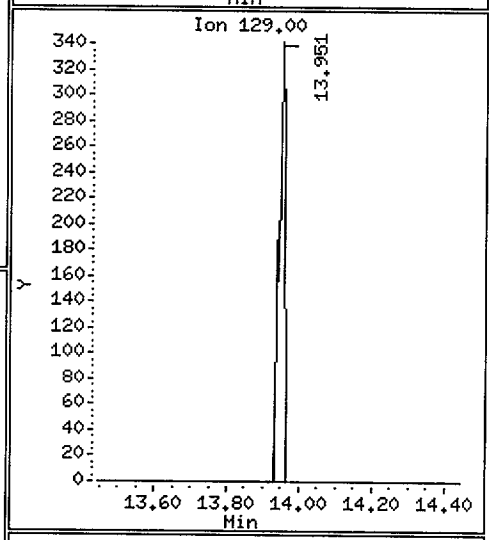
90 Napthalene

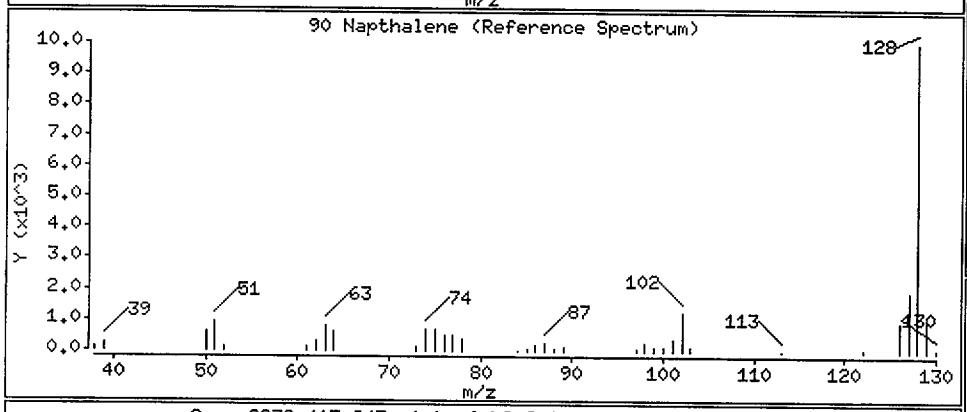
Concentration: 0.0074543 ug

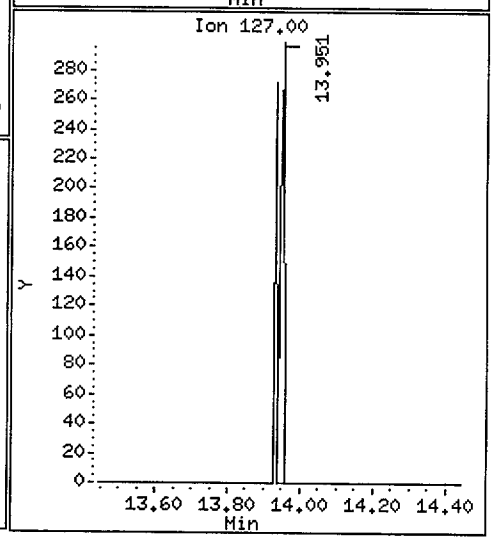


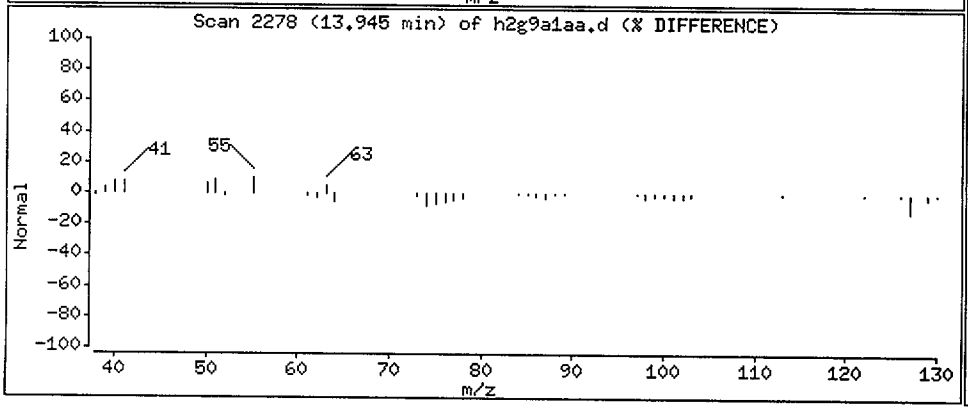












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Report Date: 18-Apr-2006 14:55

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g9a1aa.d
Lab Smp Id: H2G9A1AA
Client Smp ID: G-2912-R1-VOST PAIR
Inj Date : 07-APR-2006 12:32
Operator : 22980
Inst ID: mx.i
Smp Info : H2G9A1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.745	614535	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl- Si				CAS #: 556-67-2			
9.237	810138	13.1829432	0.32957	86	NIST02.1	115615	3
Benzaldehyde				CAS #: 100-52-7			
10.088	214832	3.49584645	0.087396	96	NIST02.1	4943	3
Benzoic acid, 2-[(trimethylsilyl)oxy]-, Si				CAS #: 3789-85-3			
12.443	174170	2.83417543	0.070854	40	NIST02.1	107110	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

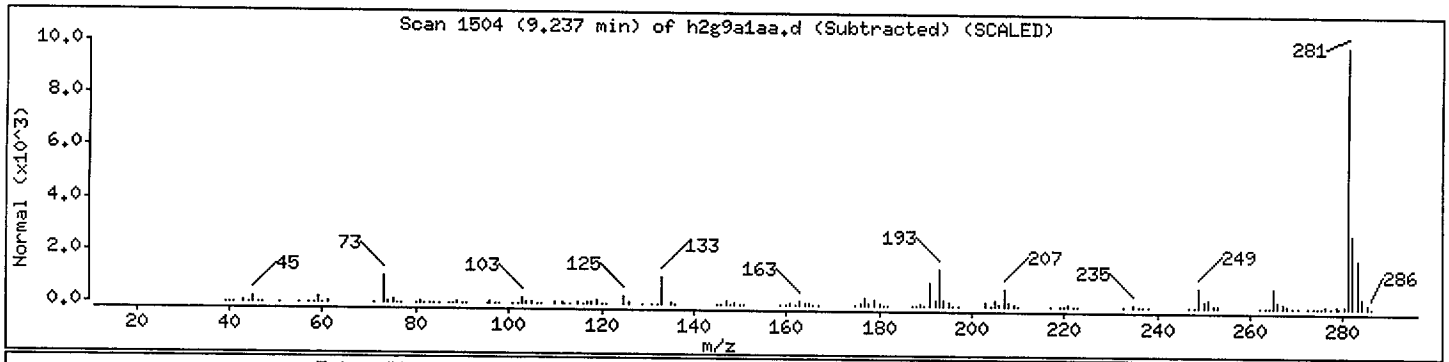
Sample Info: H2G9A1AA,1,0,,,

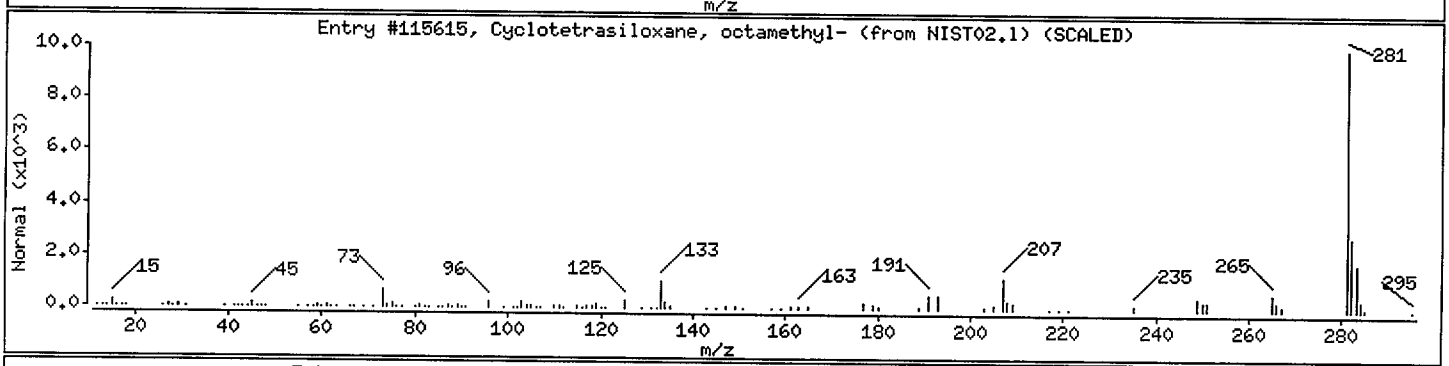
Operator: 22980

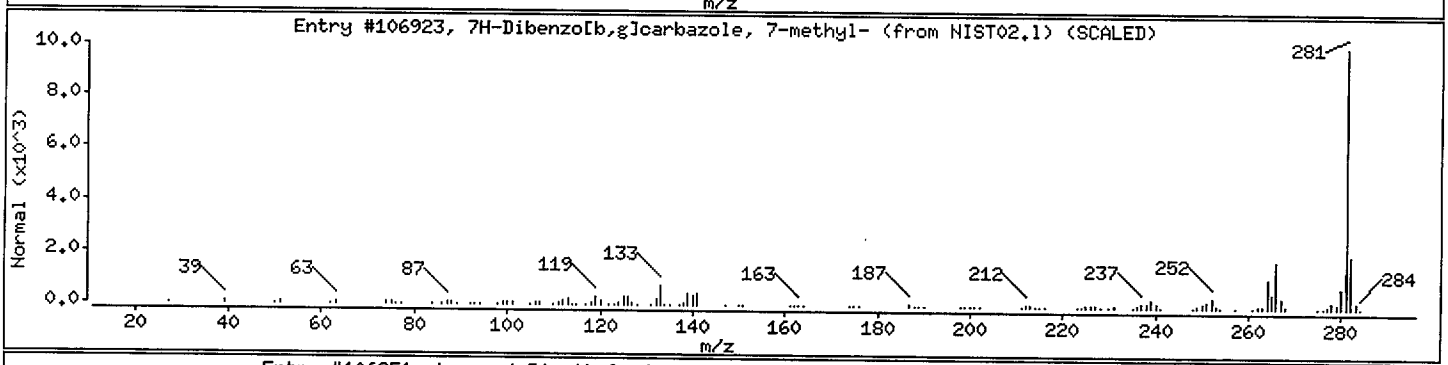
Column phase: J+W 624

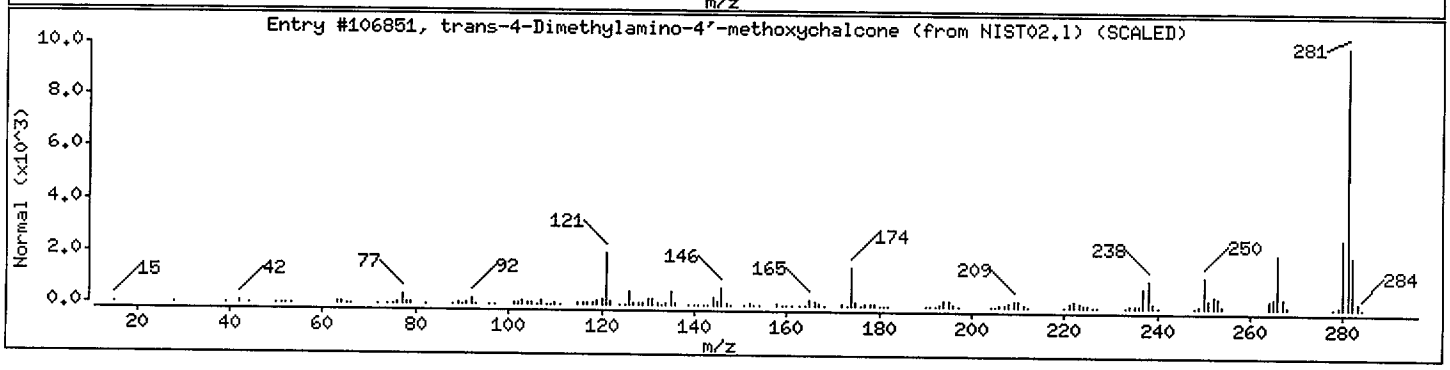
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115615	86	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	59	C21H15N	281
trans-4-Dimethylamino-4'-methoxychalcone	52119-37-6	NIST02.1	106851	50	C18H19NO2	281









Data File: /var/chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

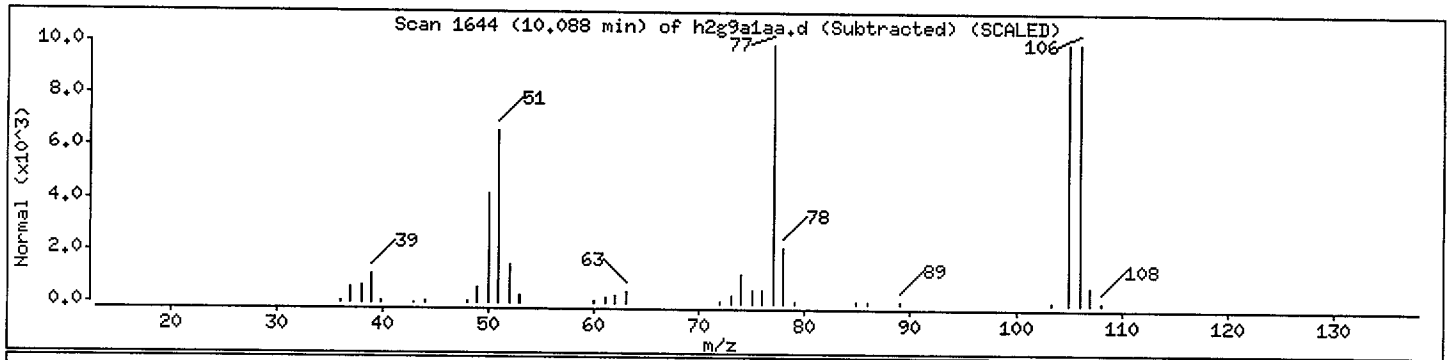
Sample Info: H2G9A1AA,1,0,,,

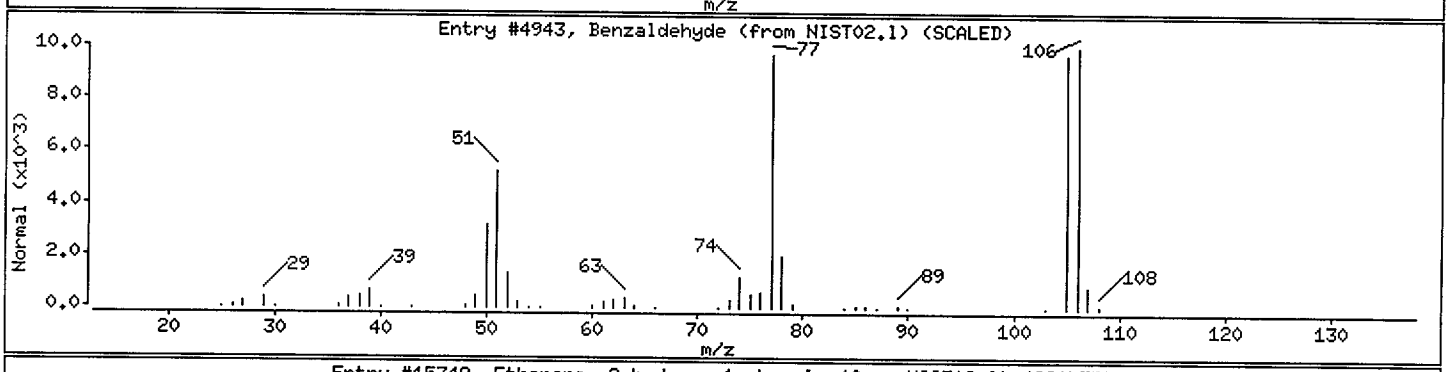
Operator: 22980

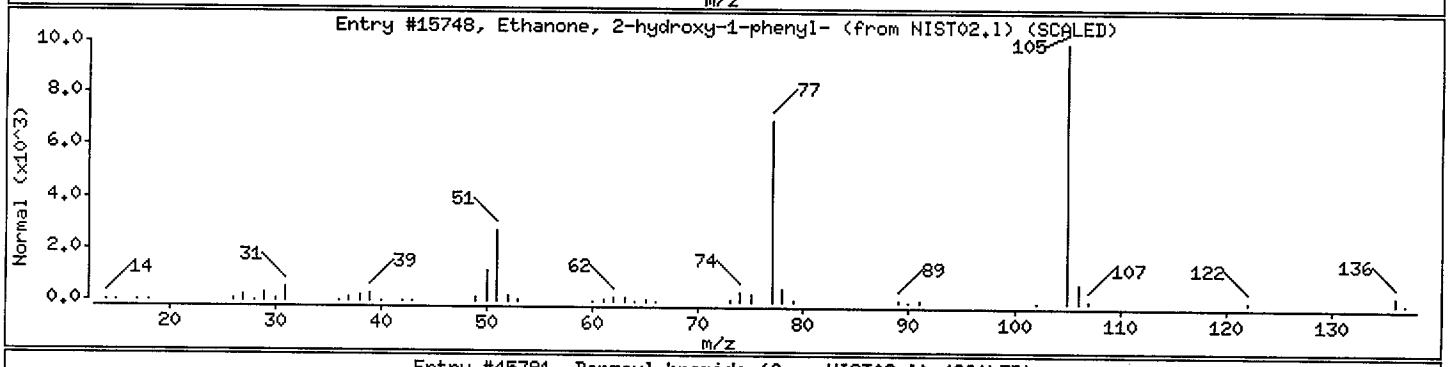
Column phase: J+W 624

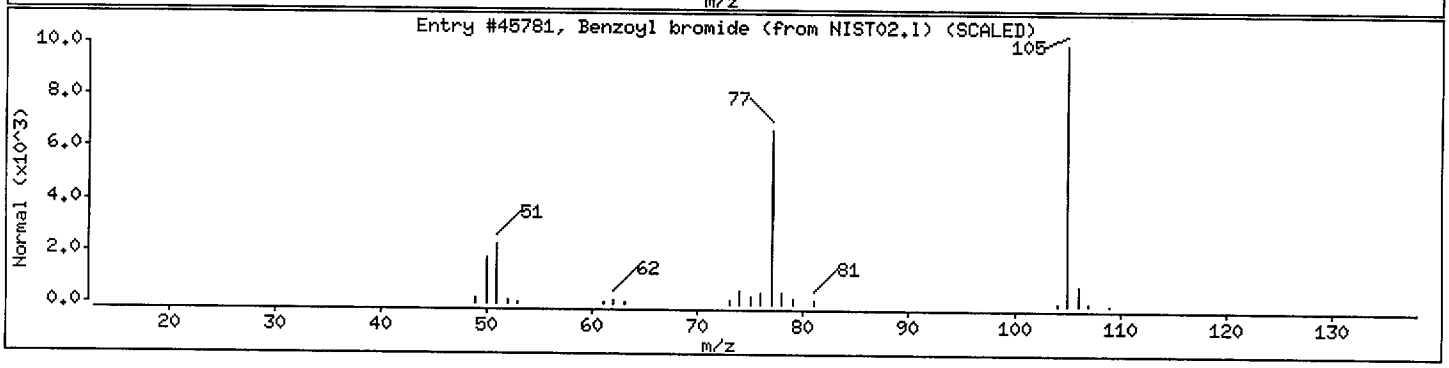
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.1	4943	96	C7H6O	106
Ethanone, 2-hydroxy-1-phenyl-	582-24-1	NIST02.1	15748	59	C8H8O2	136
Benzoyl bromide	618-32-6	NIST02.1	45781	59	C7H5BrO	184









Data File: /var/chem/gcms/mx.i/X040706.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

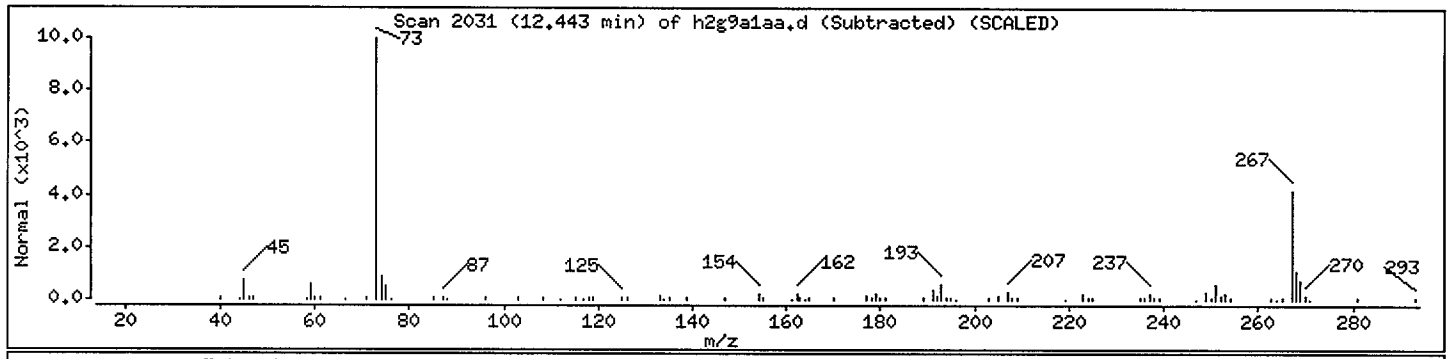
Sample Info: H2G9A1AA,1,0,,,

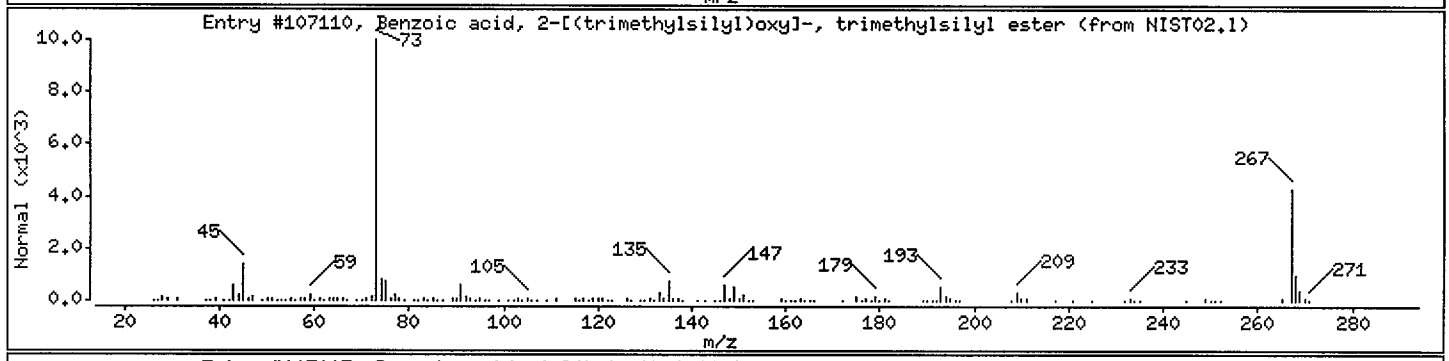
Operator: 22980

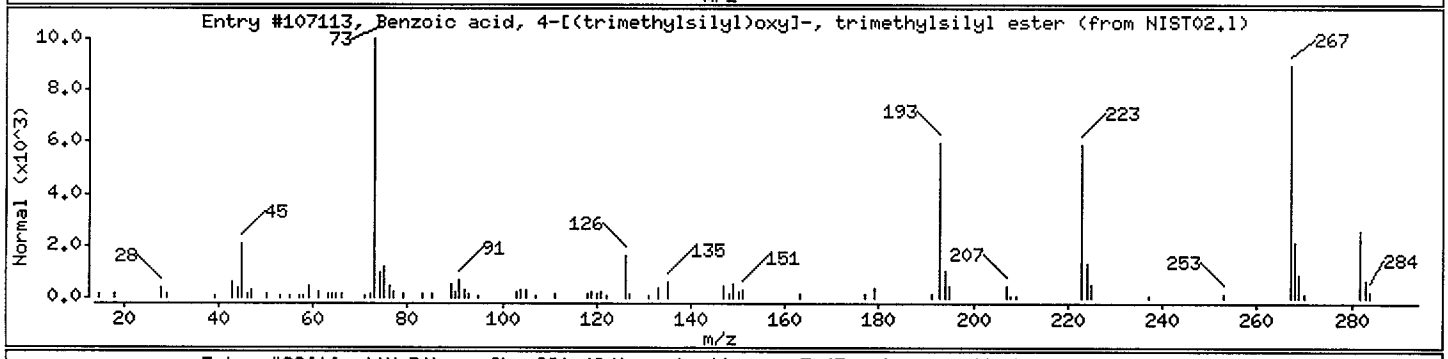
Column phase: J+W 624

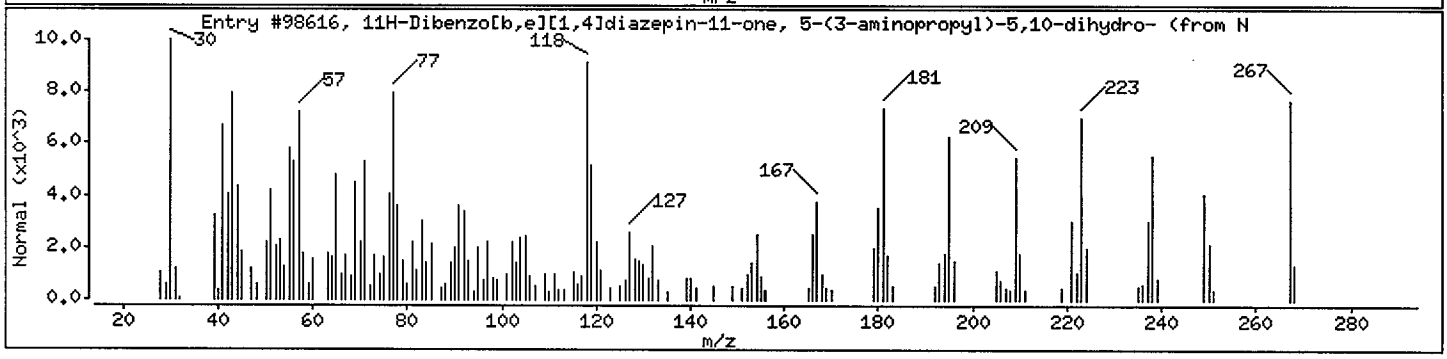
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.1	107110	40	C13H22O3Si2	282
Benzoic acid, 4-[(trimethylsilyl)oxy]-,	2078-13-9	NIST02.1	107113	38	C13H22O3Si2	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.1	98616	32	C16H17N3O	267









STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A2AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**3.2**	**0.010**	**ug**	**0.0013**

Data File: /var/chem/gcms/mx.i/X050306.b/h2g9a1aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2g9a1aa.d
Lab Smp Id: H2G9A1AA Client Smp ID: G-2912-R1-VOST PAIR
Inj Date : 07-APR-2006 12:32
Operator : 22980 Inst ID: mx.i
Smp Info : H2G9A1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

05/10/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.850	4.851	(1.000)	1228077	10.0000	
* 2 Chlorobenzene-d5	119	7.588	7.582	(1.000)	240036	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.745	10.746	(1.000)	257667	10.0000	
57 Tetrachloroethene	164	6.822	6.816	(0.899)	822855	24.3023	0.60756
62 Chlorobenzene (spcc)	112	7.618	7.607	(1.004)	10037287	126.402	3.1600(A)

TPW 5-10-06

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/h2g9a1aa.d
Report Date: 10-May-2006 12:35

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g9a1aa.d
Lab Smp Id: H2G9A1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-2912-R1-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1228077	6.86
2 Chlorobenzene-d5	214194	107097	428388	240036	12.06
3 1,4 Dichlorobenze	242601	121300	485202	257667	6.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	-0.01
2 Chlorobenzene-d5	7.58	7.08	8.08	7.59	0.08
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.00

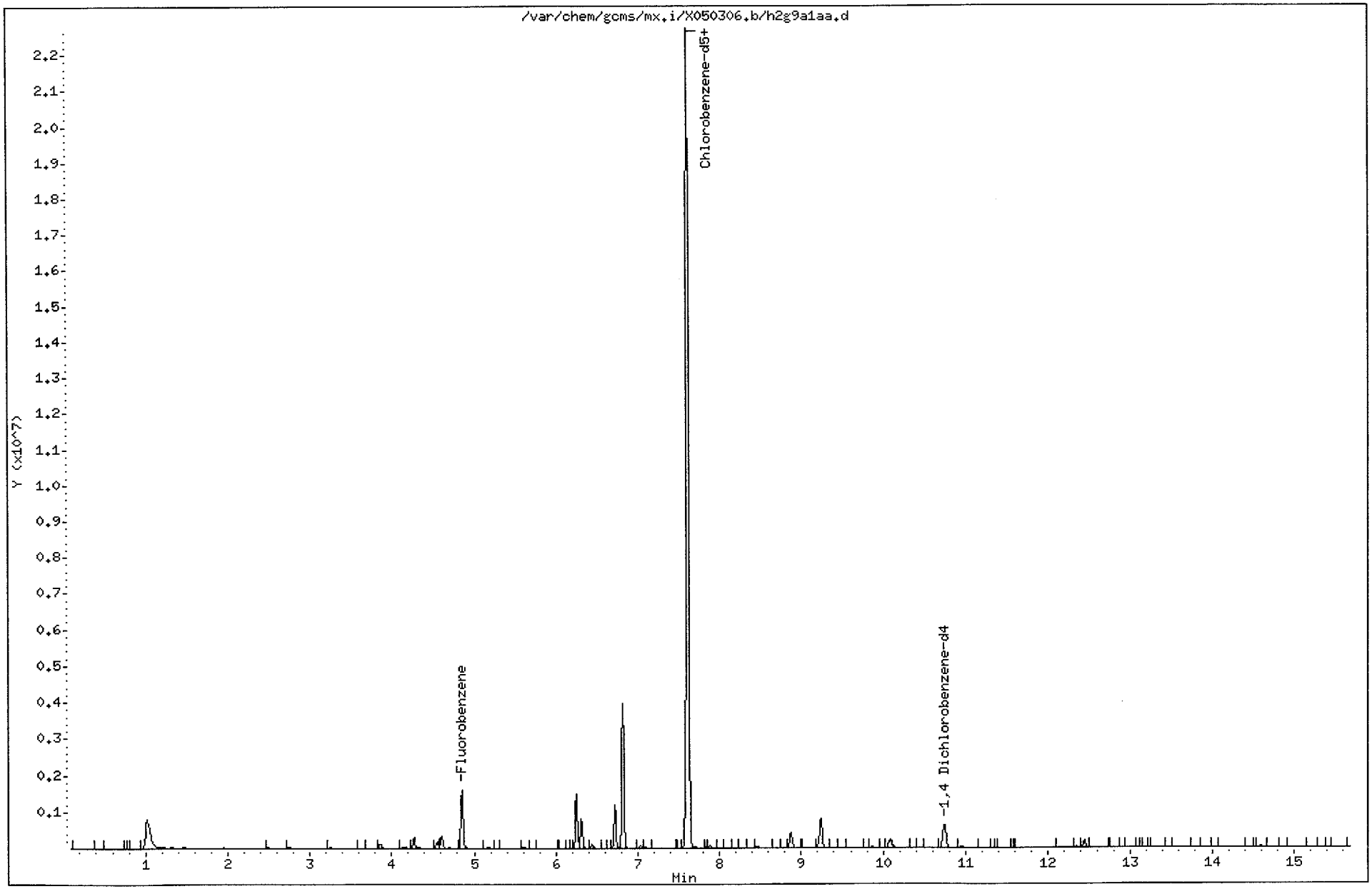
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/h2g9a1aa.d
Date : 07-APR-2006 12:32
Client ID: G-2912-R1-VOST PAIR
Sample Info: H2G9A1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

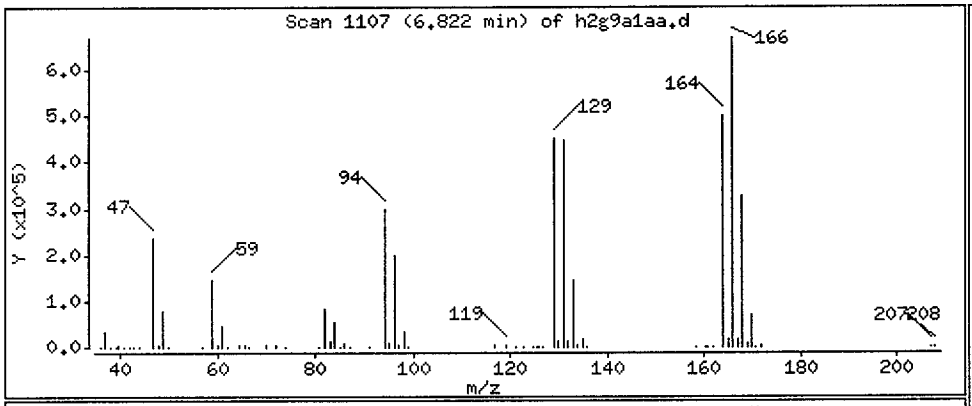
Operator: 22980

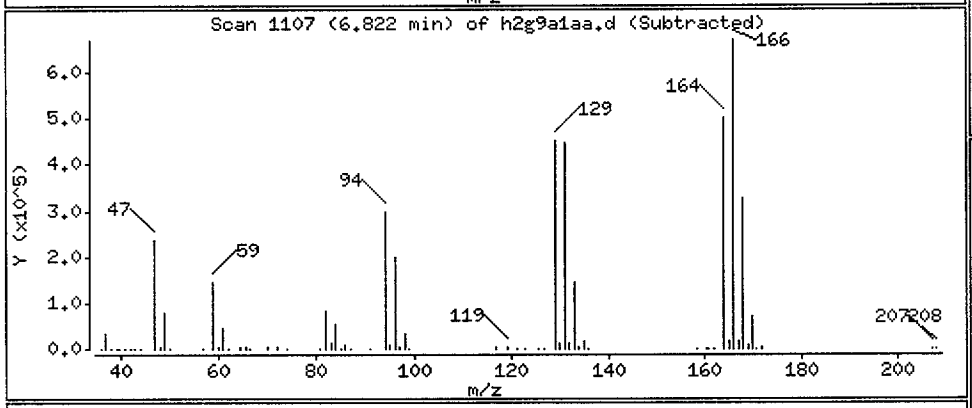
Column phase: J+W 624

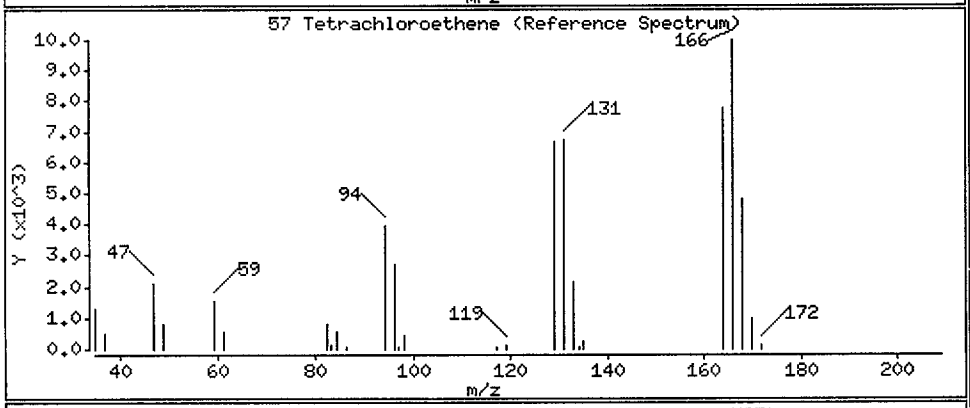
Column diameter: 0.18

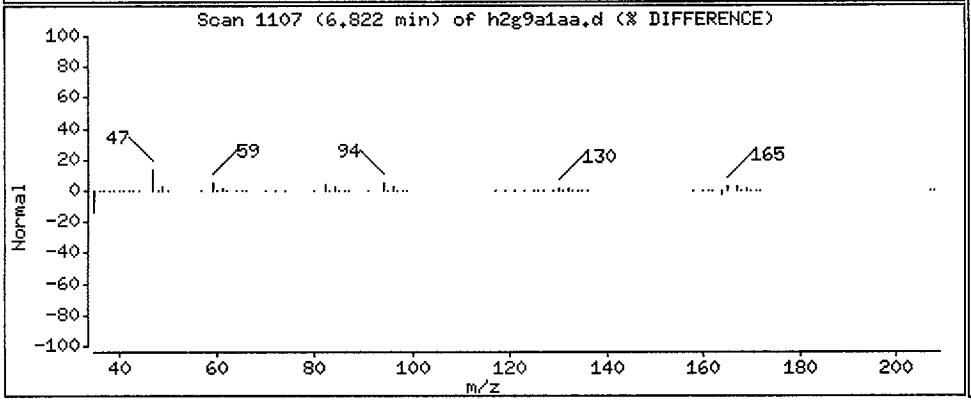
57 Tetrachloroethene

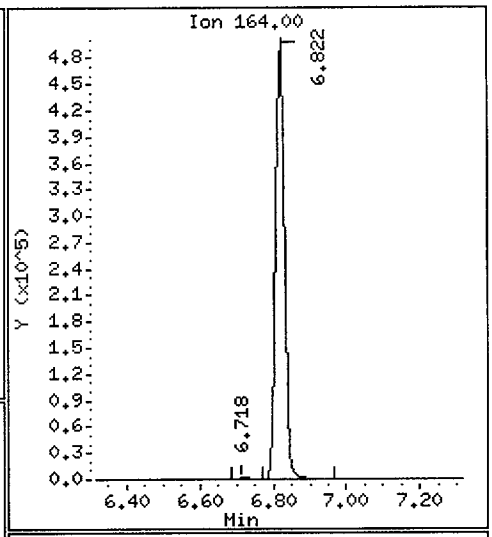
Concentration: 0.60756 ug

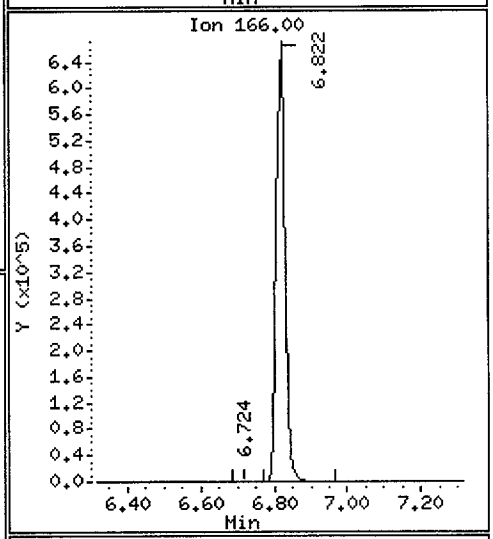


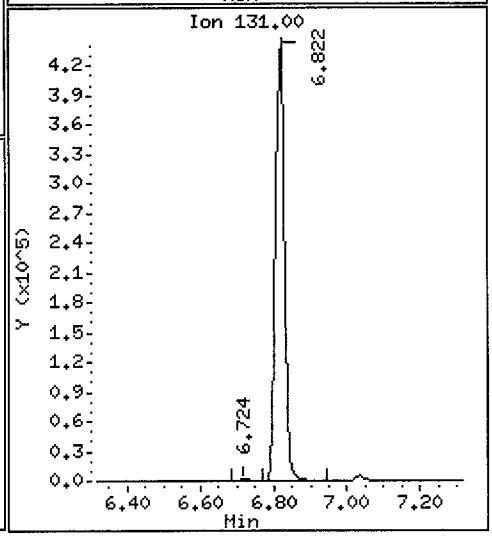












Data File: /var/chem/gcms/mx.i/X050306.b/h2g9a1aa.d

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

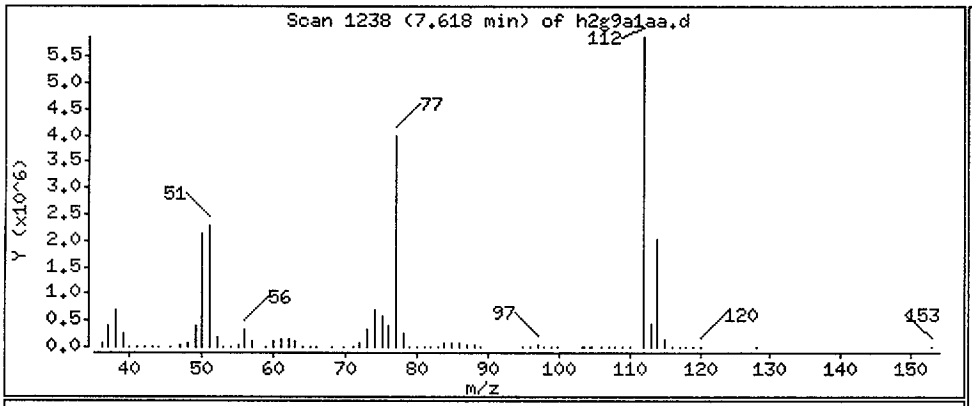
Operator: 22980

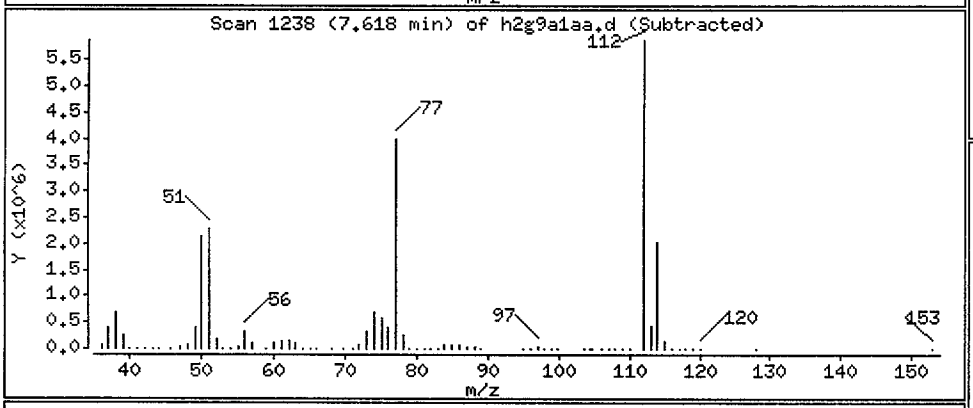
Column phase: J+W 624

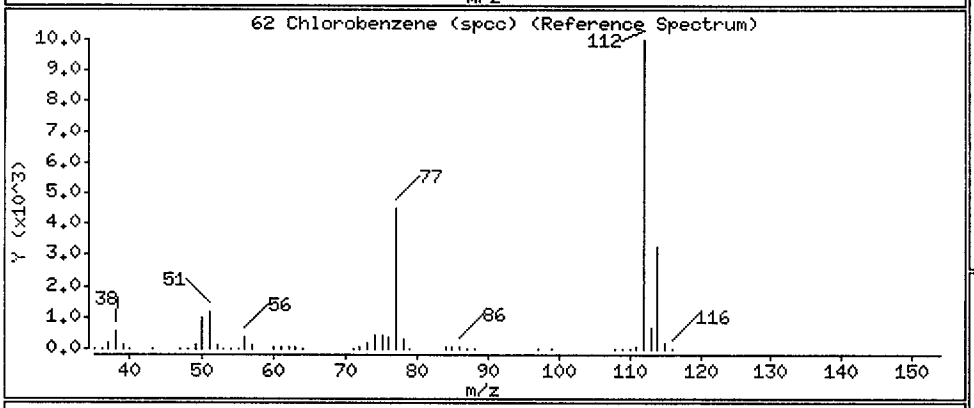
Column diameter: 0.18

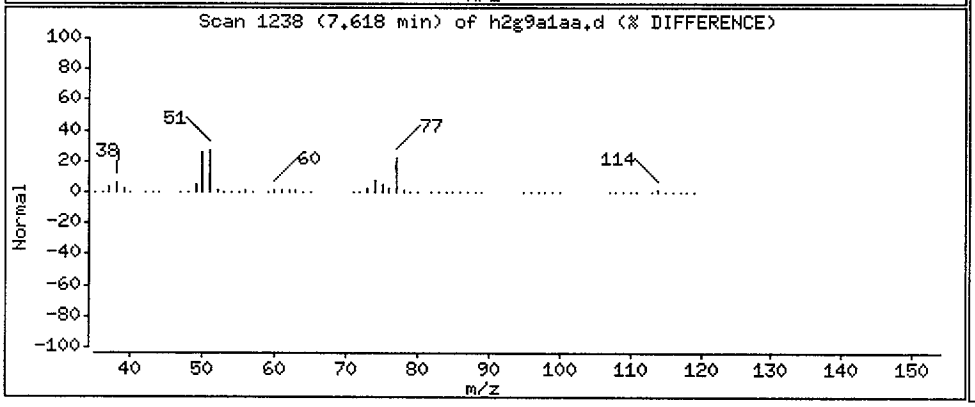
62 Chlorobenzene (spcc)

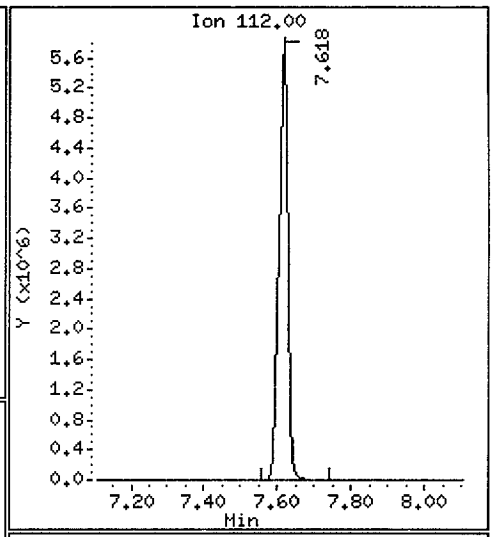
Concentration: 3.1600 ug

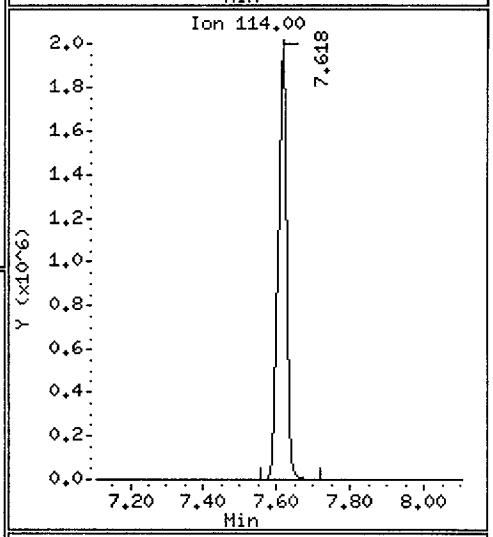


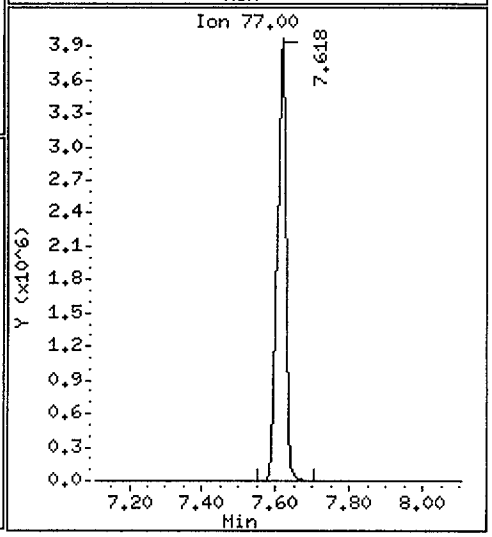












STL Knoxville - ACS

Client Sample ID: G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-006
Date Sampled...: 03/28/06
Prep Date.....: 04/06/06
Prep Batch #...: 6096033
Dilution Factor: 1

Work Order #...: H2G9D1AA
Date Received..: 04/02/06
Analysis Date..: 04/07/06

Matrix.....: AIR

Method.....: SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0062 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.024 J**	**0.025**	**ug**	**0.0066**
Bromomethane	**0.043 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.056**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0023 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.51**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.010 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-006 **Work Order #...:** H2G9D1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.016**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0056 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.012**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	118	(50 - 134)
1,2-Dichloroethane-d4	113	(50 - 134)
Toluene-d8	106	(57 - 127)
Bromofluorobenzene	97	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-006 **Work Order #:** H2G9D1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Unknown		0.051 NJ M	9.3163	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Report Date: 07-Apr-2006 17:48

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Lab Smp Id: H2G9D1AA Client Smp ID: G-2913-R1-VOST PAIR
Inj Date : 07-APR-2006 17:31
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9D1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.678	5.676	(1.000)	566278	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	151001	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	212492	10.0000	
$ 4 Dibromofluoromethane	113	4.833	4.831	(0.851)	107440	11.8407	0.29602
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.923)	88534	11.2832	0.28208
$ 6 Toluene-d8	98	7.467	7.465	(0.835)	702483	10.5879	0.26470
$ 7 4-Bromofluorobenzene	95	10.131	10.129	(0.881)	207928	9.70273	0.24257
10 Dichlorodifluoromethane	85	1.018	1.016	(0.179)	5537	0.40063	0.010016
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	664730	20.3995	0.50999
15 Bromomethane	94	1.414	1.418	(0.249)	5443	1.73538	0.043384
16 Chloroethane	64	1.566	1.485	(0.276)	4377	0.41447	~~0.010362~~
22 Acetone	43	2.120	2.123	(0.373)	1616	3.72120	0.093030
23 *Iodomethane	142	2.199	2.184	(0.387)	1228	0.60550	0.015137
27 Methylene Chloride	84	2.521	2.513	(0.444)	4590	0.48476	0.012119
40 Chloroform (ccc)	83	4.632	4.618	(0.816)	1876	0.09170	0.0022924
44 Benzene	78	5.307	5.305	(0.935)	13932	0.24949	0.0062372

JW 4/4/06
See Reprint for (M)

Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Report Date: 07-Apr-2006 17:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
45 1,2-Dichloroethane	62	5.672	5.335	(0.999)	9312	0.78748	0.019687
46 Trichloroethene	130	6.116	6.114	(1.077)	7311	0.46542	0.011636
53 4-Methyl-2-pentanone	43	7.461	7.386	(1.314)	5769	1.16663	0.029166
54 Toluene (ccc)	91	7.534	7.532	(0.843)	19375	0.22547	0.0056366
55 trans-1,3-Dichloropropene	75	8.124	7.793	(0.909)	266	0.64471	0.016118
58 Tetrachloroethene	164	8.100	8.097	(0.906)	11362	0.63744	0.015936
61 Chlorodibromomethane	129	8.100	8.353	(0.906)	9676	1.98796	0.049699
63 Chlorobenzene (spcc)	112	8.963	8.961	(1.003)	107910	2.24981	0.056245
65 Ethylbenzene (ccc)	106	9.231	9.101	(1.033)	2105	0.06812	0.0017030
67 o-Xylene	106	9.231	9.612	(1.033)	2179	0.06604	0.0016509
68 Styrene	104	9.633	9.630	(1.078)	2902	0.06264	0.0015659
69 Bromoform (spcc)	173	9.791	9.782	(1.095)	336	0.94074	0.023518
83 1,3-Dichlorobenzene	146	11.531	11.395	(1.003)	3624	0.09743	0.0024358
85 1,4-Dichlorobenzene	146	11.531	11.528	(1.003)	3624	0.10475	0.0026186

4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Report Date: 14-Apr-2006 15:36

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Lab Smp Id: H2G9D1AA Client Smp ID: G-2913-R1-VOST PAIR
Inj Date : 07-APR-2006 17:31
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9D1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:02 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.678	5.676	(1.000)	566278	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	151001	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	212492	10.0000	
$ 4 Dibromofluoromethane	113	4.833	4.831	(0.851)	107440	11.8406	0.29602
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.923)	88534	11.2832	0.28208
$ 6 Toluene-d8	98	7.467	7.465	(0.835)	702483	10.5880	0.26470
$ 7 4-Bromofluorobenzene	95	10.131	10.129	(0.881)	207928	9.70271	0.24257
10 Dichlorodifluoromethane	85	1.018	1.016	(0.179)	5537	0.40057	0.010014
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	664730	20.3995	0.50999
15 Bromomethane	94	1.414	1.418	(0.249)	5443	1.73528	0.043382
22 Acetone	43	2.138	2.123	(0.376)	3058	4.16442	0.10411(M)
23 *Iodomethane	142	2.199	2.184	(0.387)	1228	0.60546	0.015136
27 Methylene Chloride	84	2.521	2.513	(0.444)	4590	0.48465	0.012116
40 Chloroform (ccc)	83	4.632	4.618	(0.816)	1876	0.09169	0.0022922
44 Benzene	78	5.307	5.305	(0.935)	13932	0.24948	0.0062370
46 Trichloroethene	130	6.116	6.114	(1.077)	7311	0.46541	0.011635

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Report Date: 14-Apr-2006 15:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
54 Toluene (ccc)	91	7.534	7.532	(0.843)	19375	0.22546	0.0056365
58 Tetrachloroethene	164	8.100	8.097	(0.906)	11362	0.63744	0.015936
63 Chlorobenzene (spcc)	112	8.963	8.961	(1.003)	107910	2.24981	0.056245
68 Styrene	104	9.633	9.630	(1.078)	2902	0.06263	0.0015659
69 Bromoform (spcc)	173	9.791	9.782	(1.095)	336	0.94067	0.023517
85 1,4-Dichlorobenzene	146	11.531	11.528	(1.003)	3624	0.10474	0.0026186

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Report Date: 07-Apr-2006 17:48

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g9d1aa.d
Lab Smp Id: H2G9D1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-2913-R1-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	566278	-40.55
2 Chlorobenzene-d5	164101	82050	328202	151001	-7.98
3 1,4 Dichlorobenze	204390	102195	408780	212492	3.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.68	0.04
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.03
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Report Date: 07-Apr-2006 17:48

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G9D1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2913-R1-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

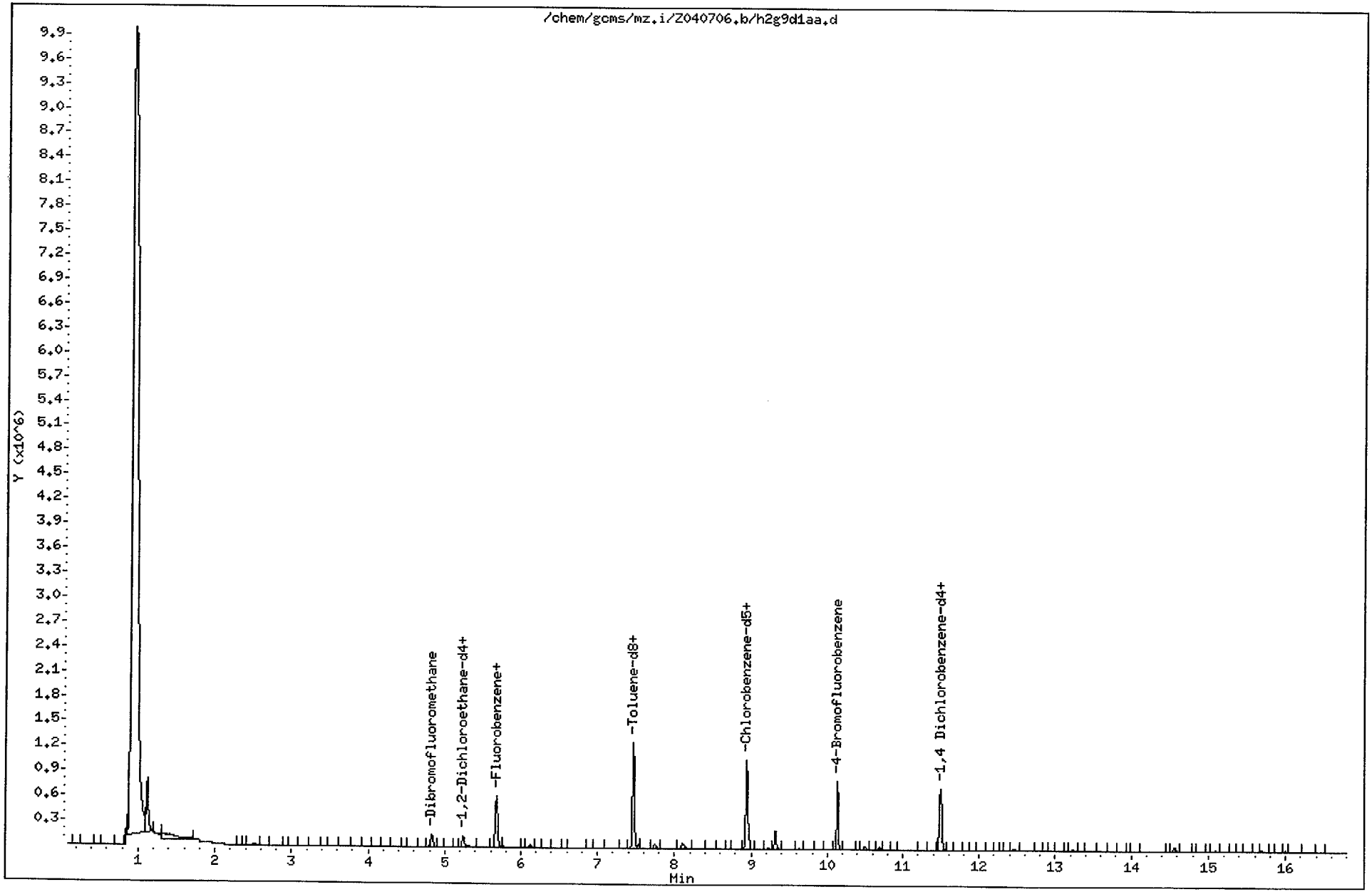
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.29602	118.41	50-150
$ 5 1,2-Dichloroethane	0.25000	0.28208	112.83	50-150
$ 6 Toluene-d8	0.25000	0.26470	105.88	50-150
$ 7 4-Bromofluorobenze	0.25000	0.24257	97.03	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Date : 07-APR-2006 17:31
Client ID: G-2913-R1-VOST PAIR
Sample Info: H2G9D1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

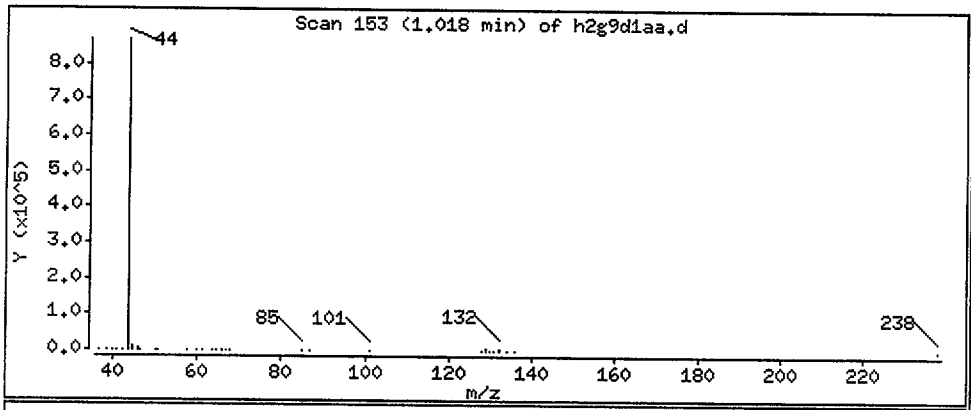
Operator: 22980

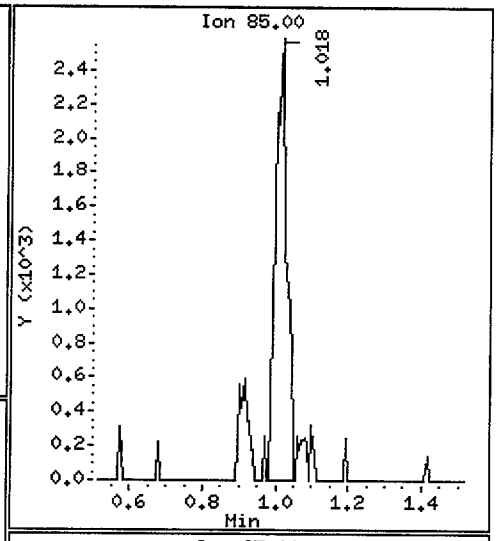
Column phase: J+W 624

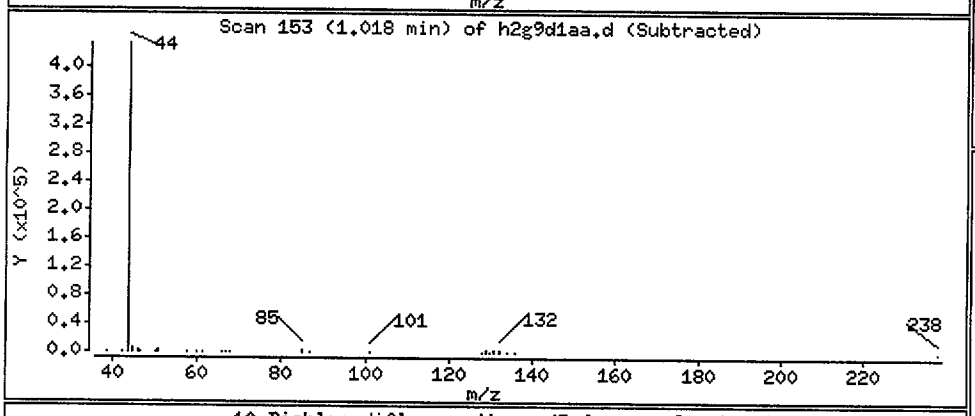
Column diameter: 0.18

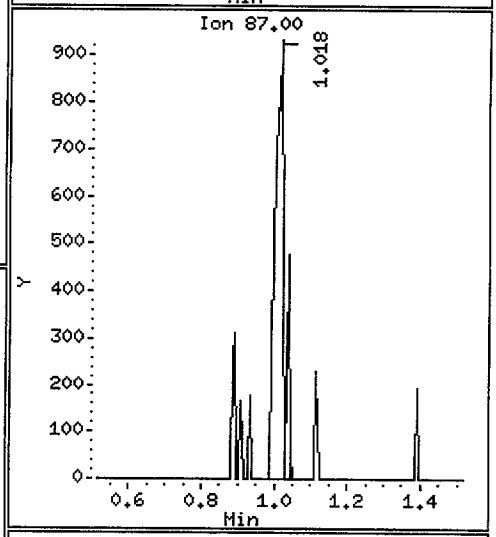
10 Dichlorodifluoromethane

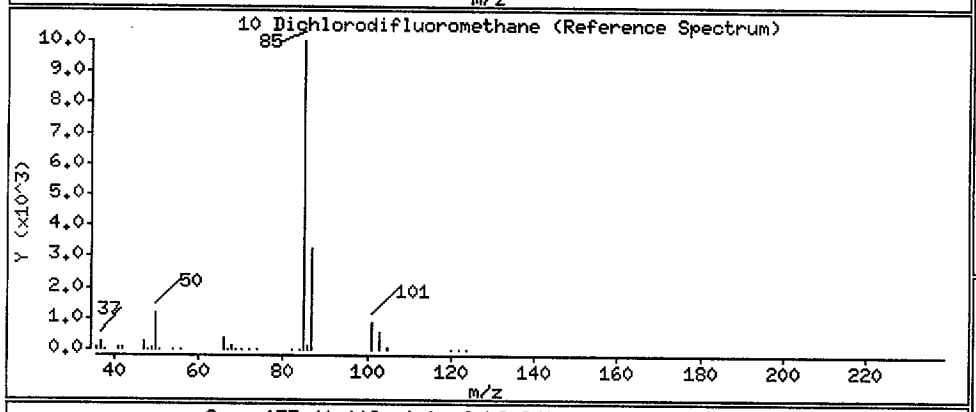
Concentration: 0.010016 ug

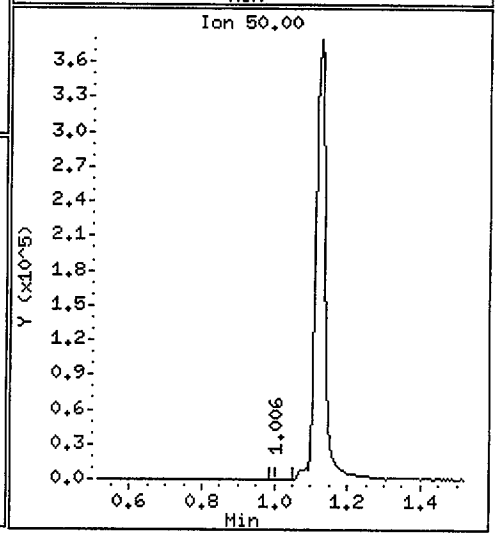


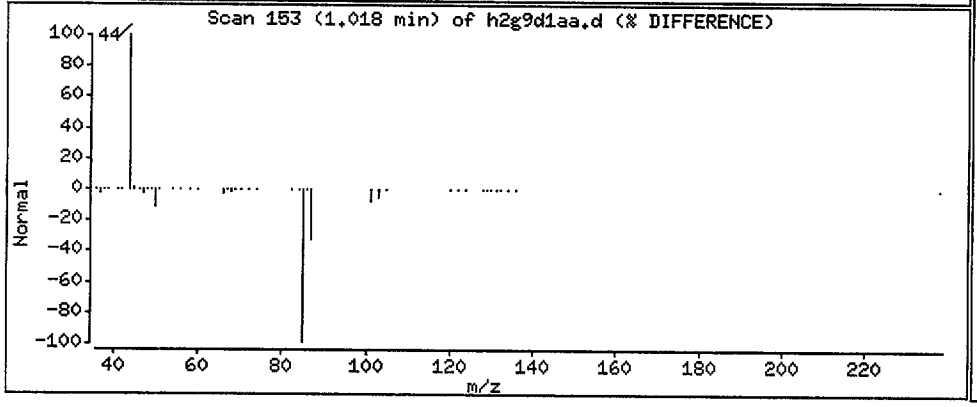












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

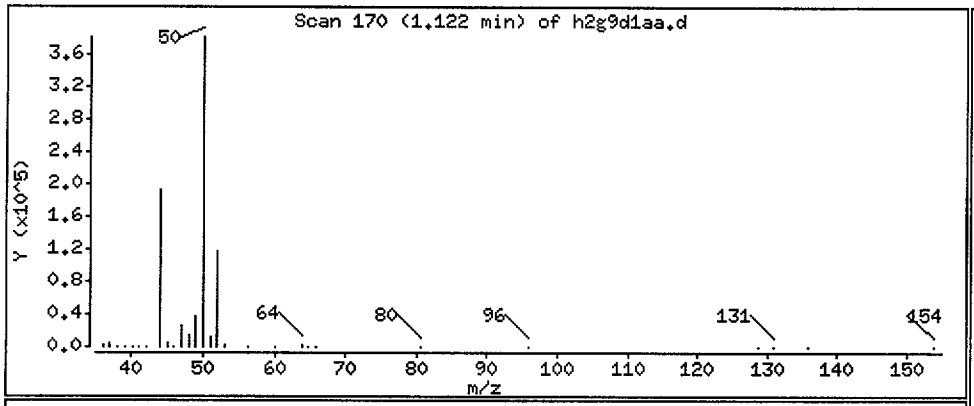
Operator: 22980

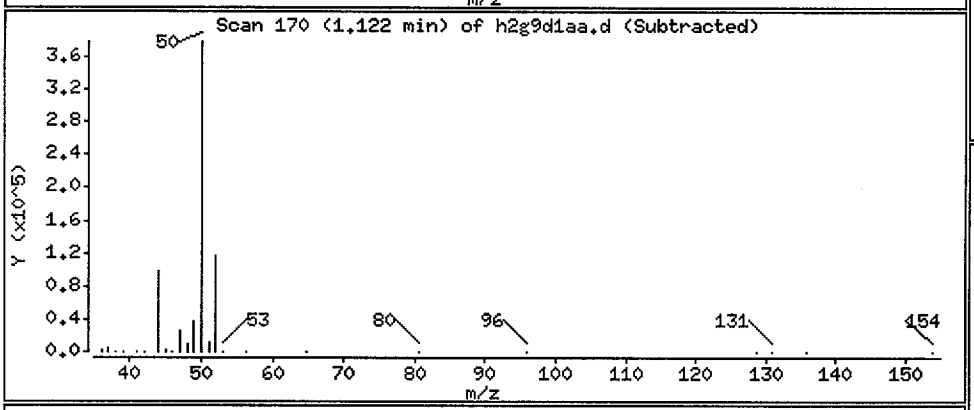
Column phase: J+W 624

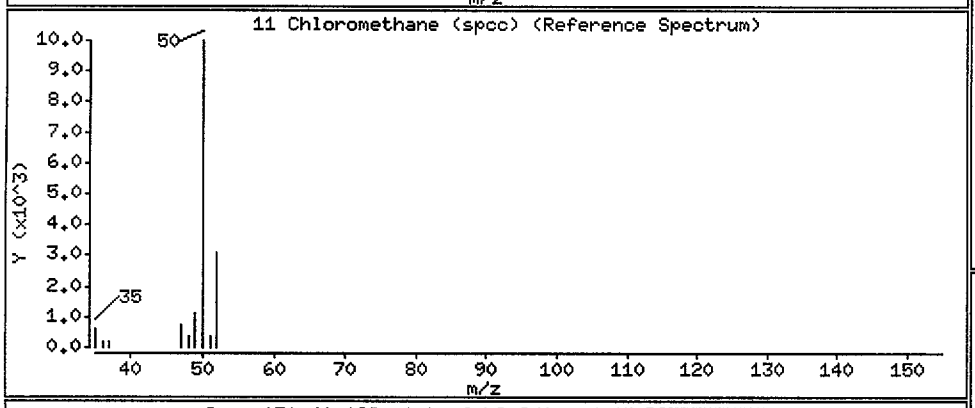
Column diameter: 0.18

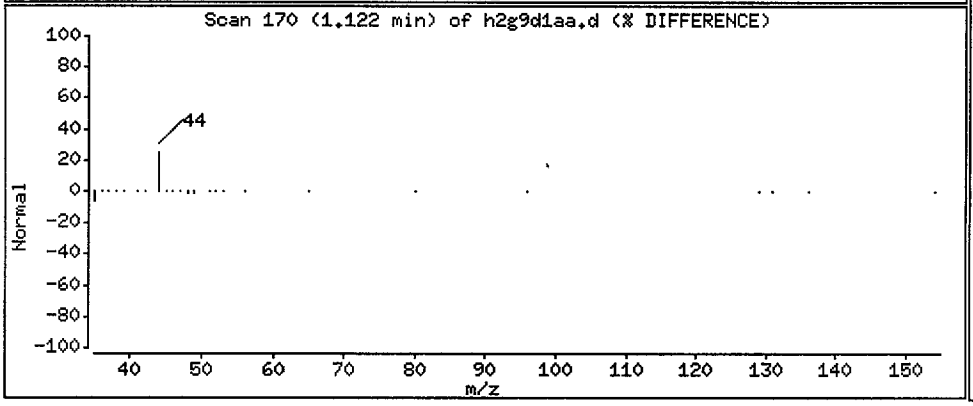
11 Chloromethane (spcc)

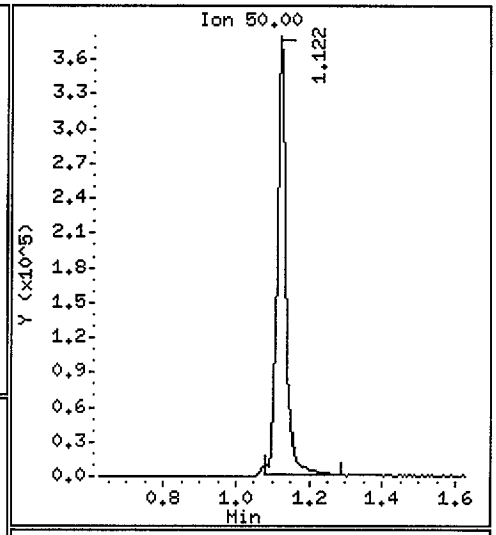
Concentration: 0.50999 ug

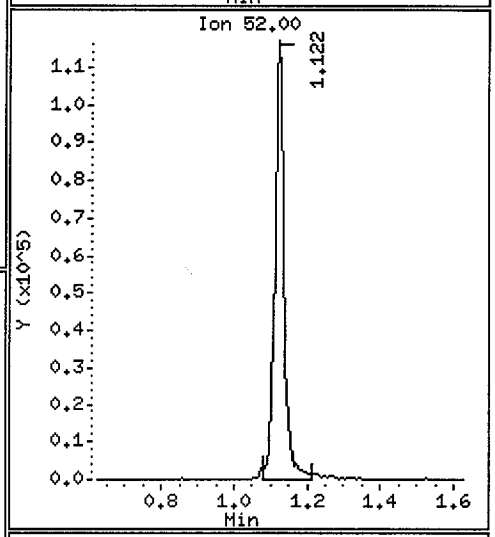


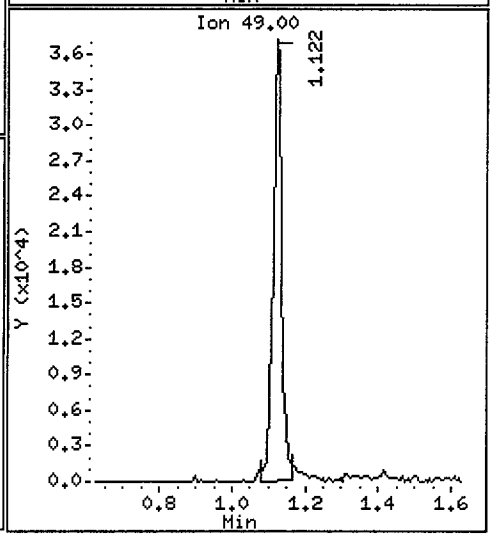












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

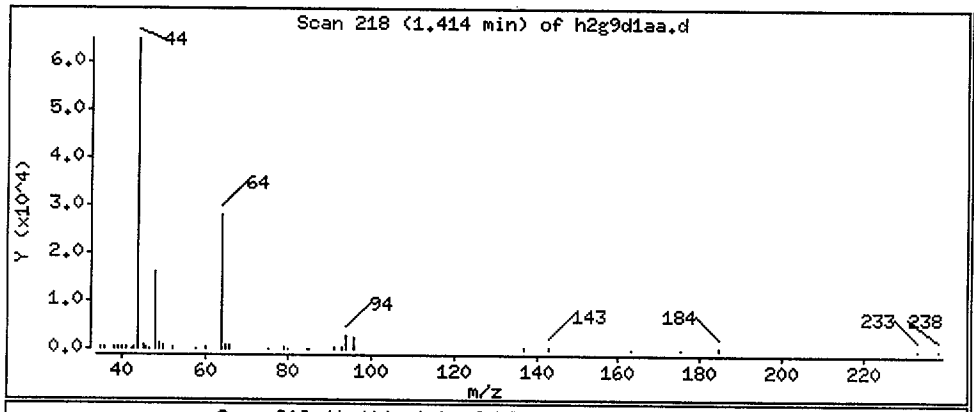
Operator: 22980

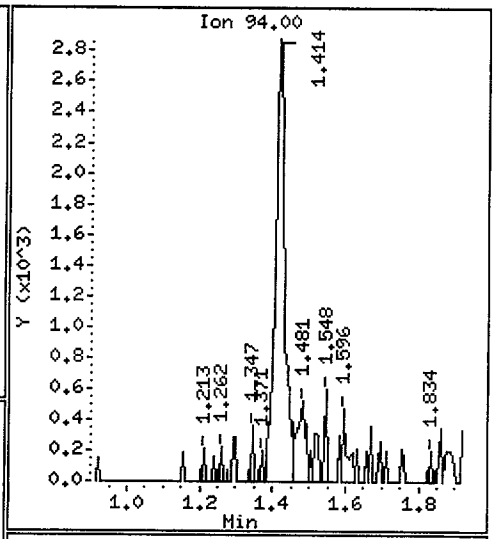
Column phase: J+W 624

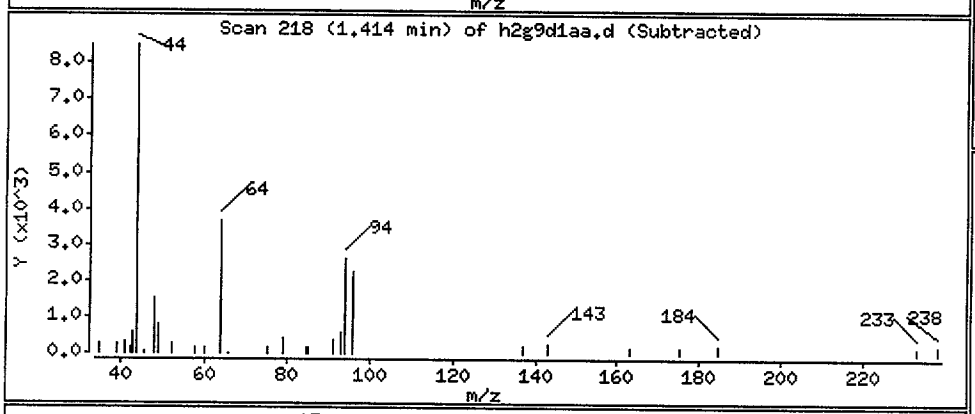
Column diameter: 0.18

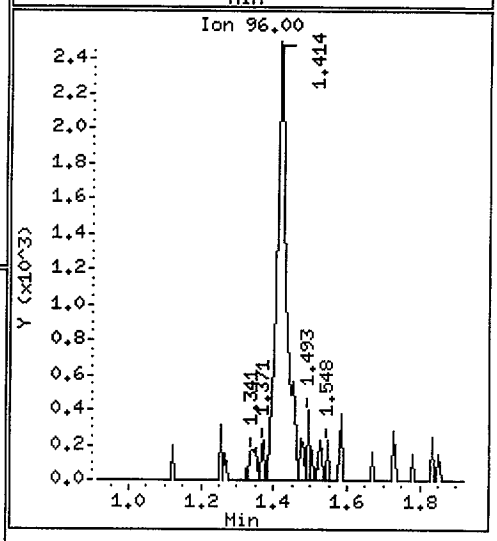
15 Bromomethane

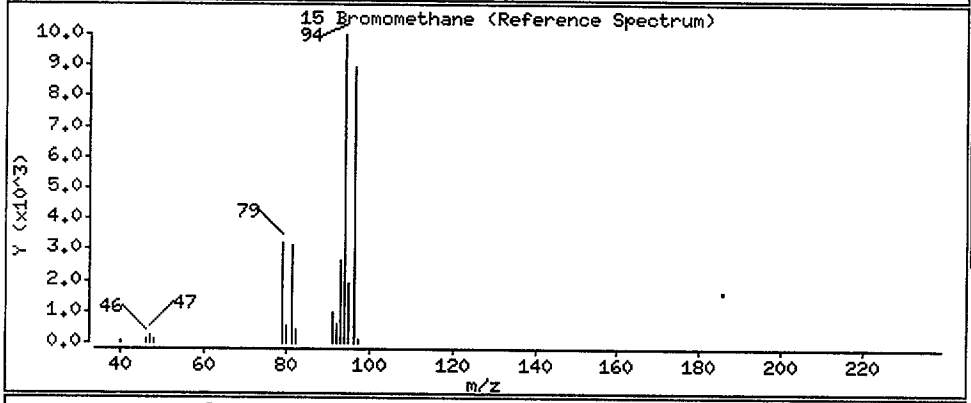
Concentration: 0.043384 ug

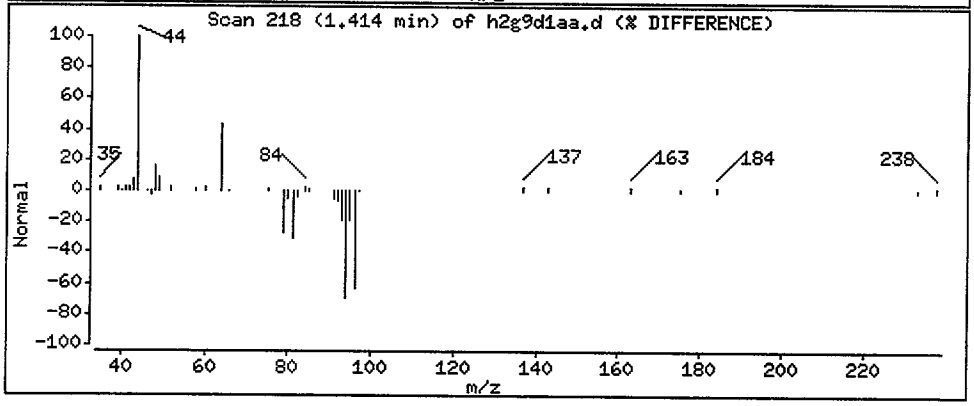












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

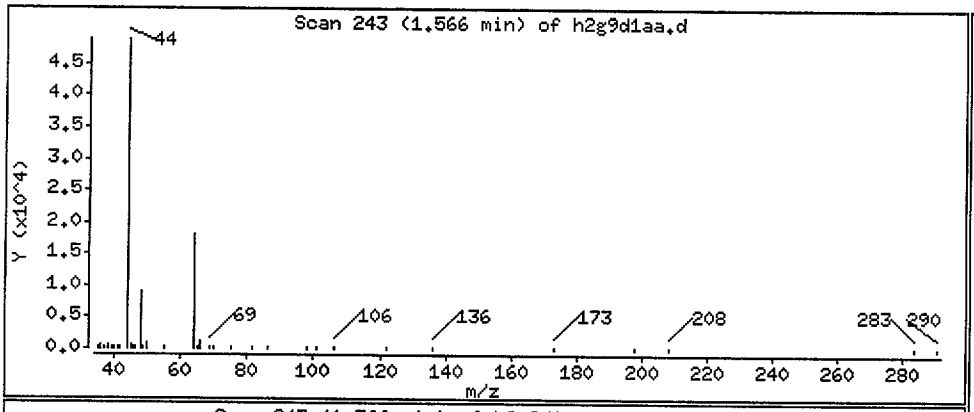
Operator: 22980

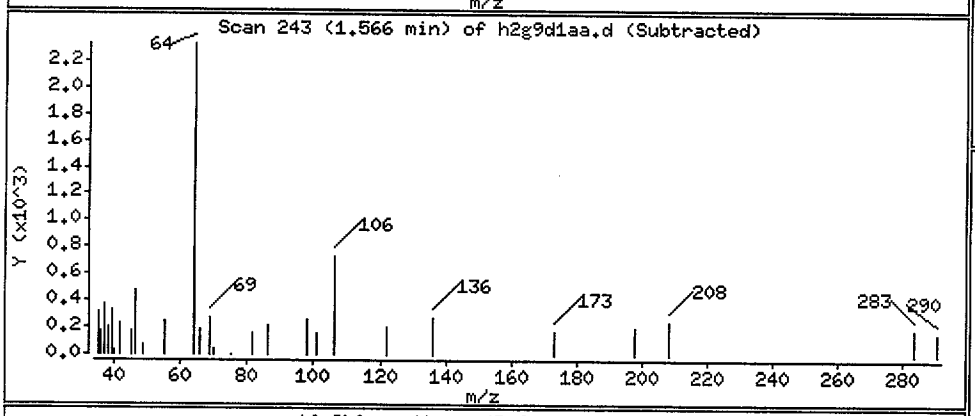
Column phase: J+W 624

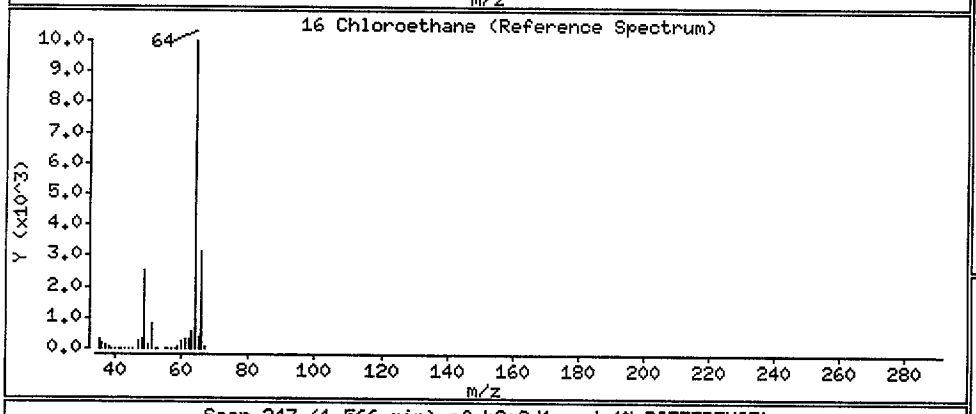
Column diameter: 0.18

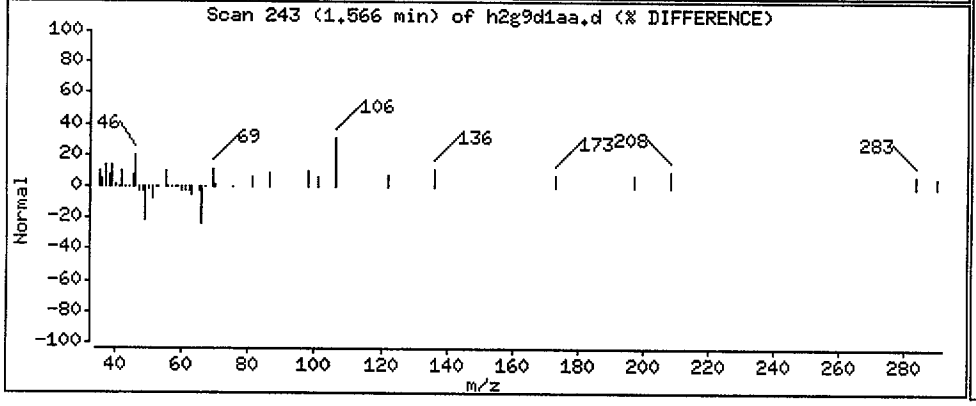
16 Chloroethane

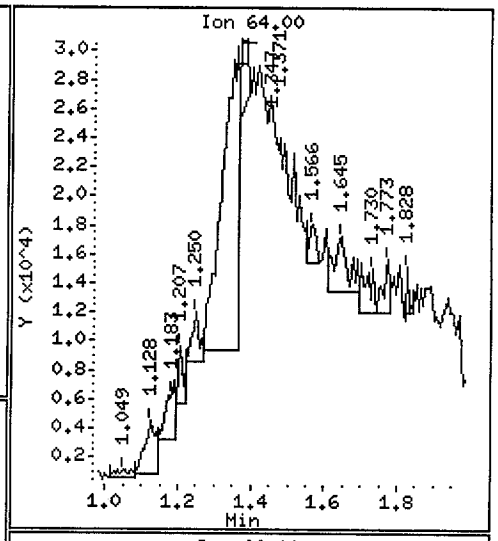
Concentration: 0.010362 ug

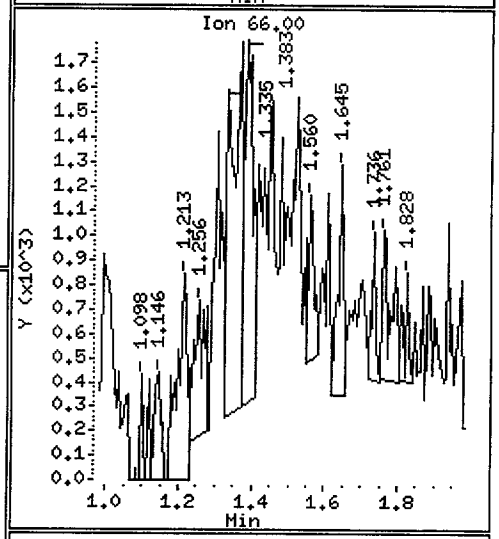


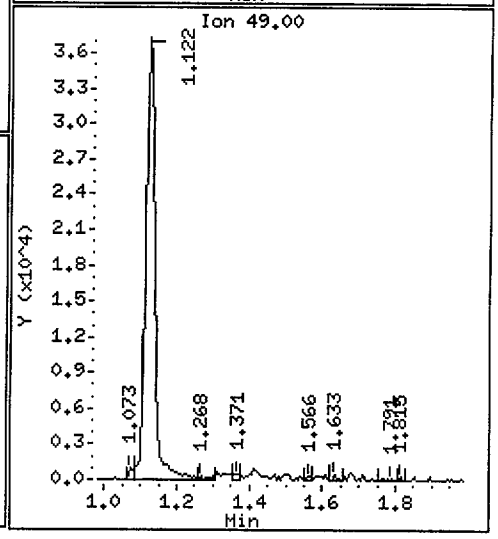












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

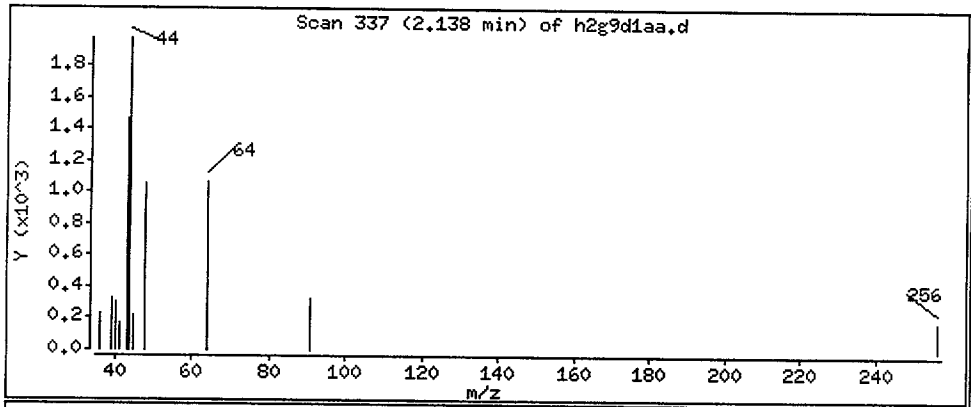
Operator: 22980

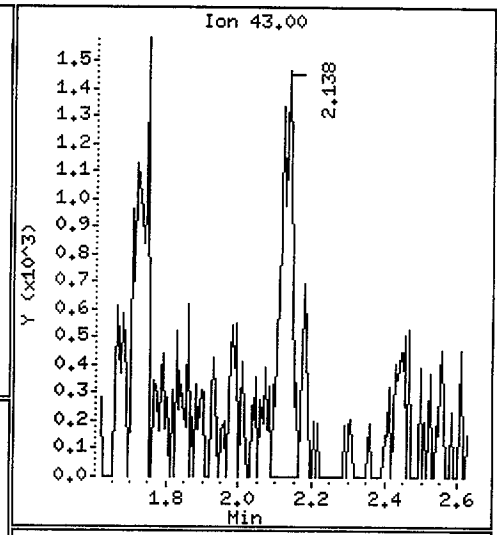
Column phase: J+W 624

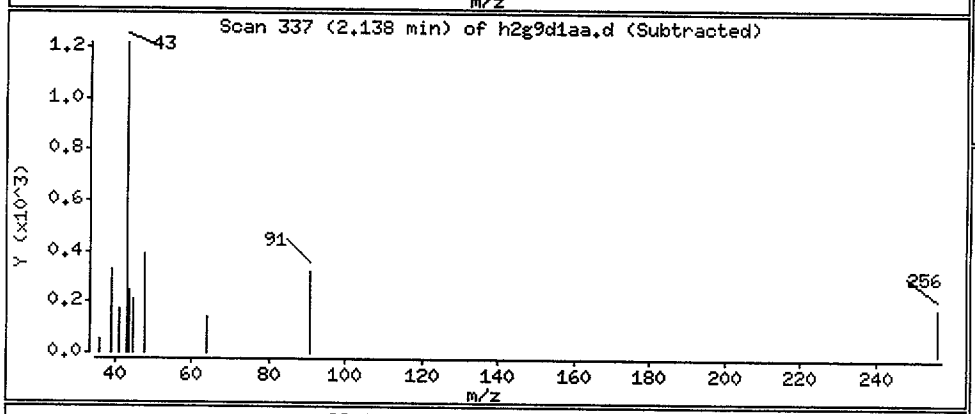
Column diameter: 0.18

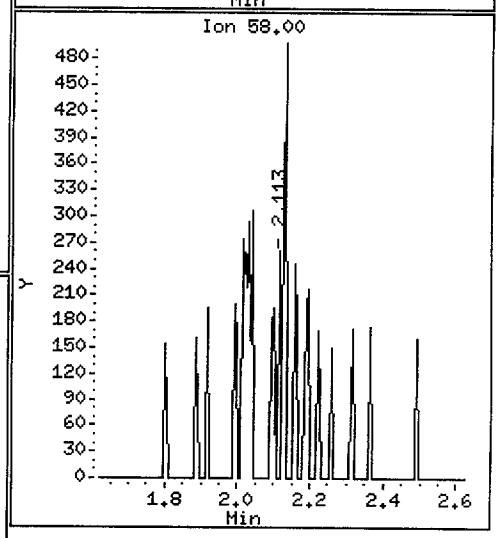
22 Acetone

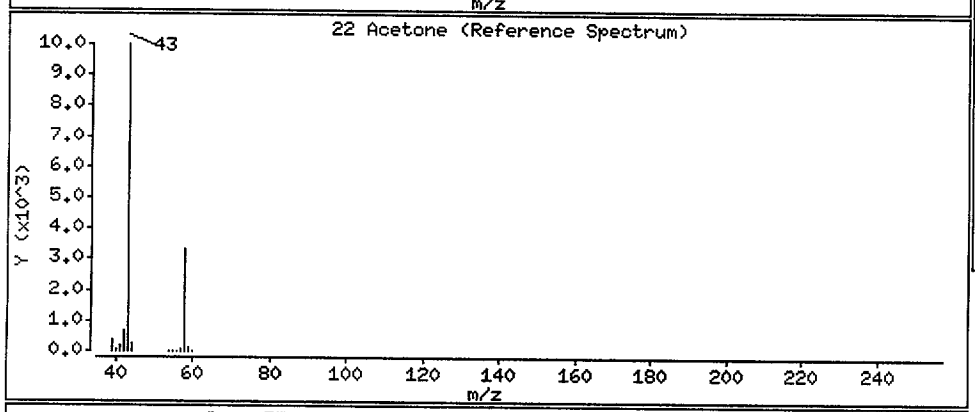
Concentration: 0.10411 ug

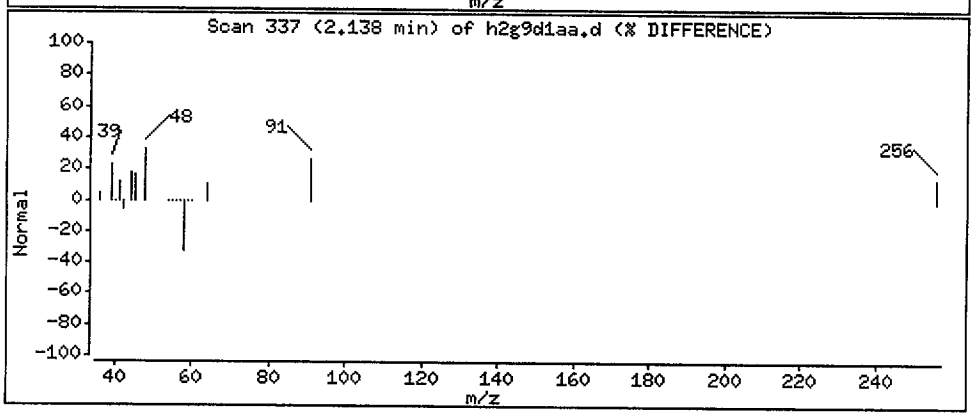












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

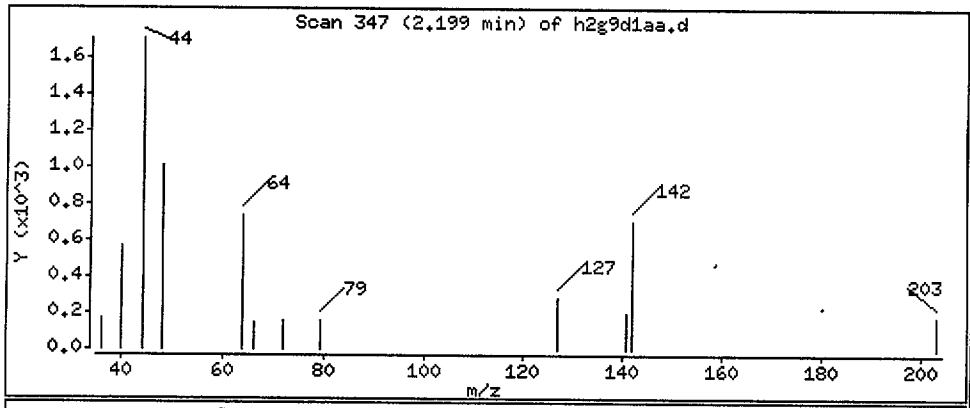
Operator: 22980

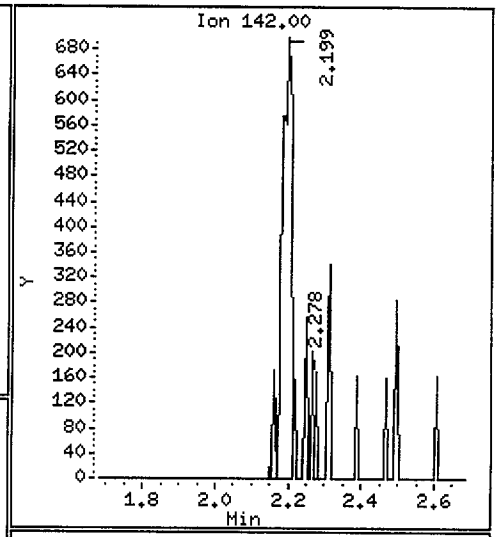
Column phase: J+W 624

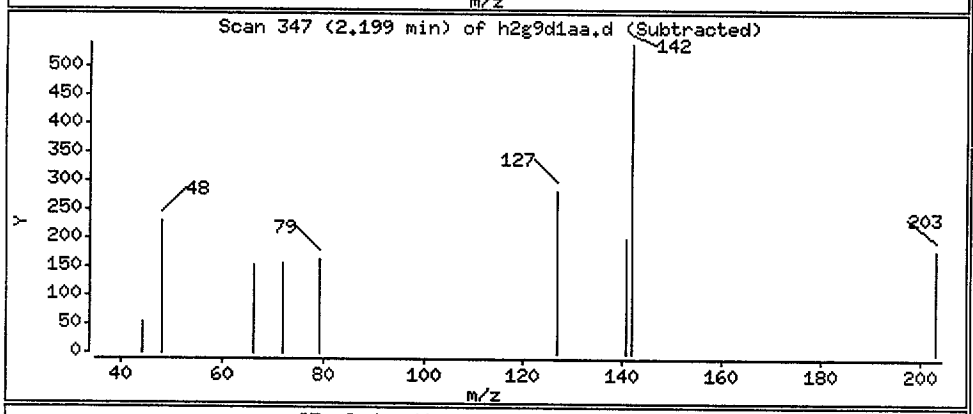
Column diameter: 0.18

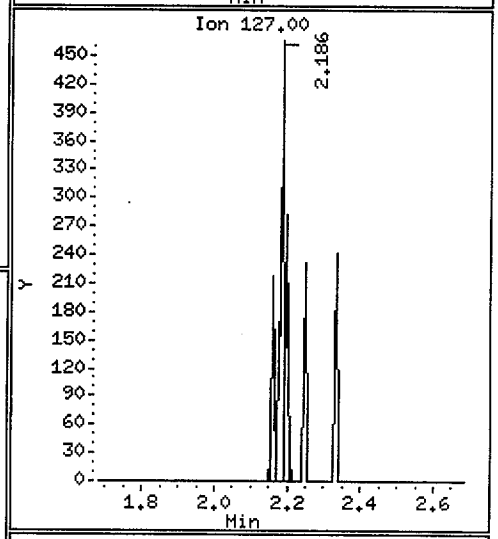
23 *Iodomethane

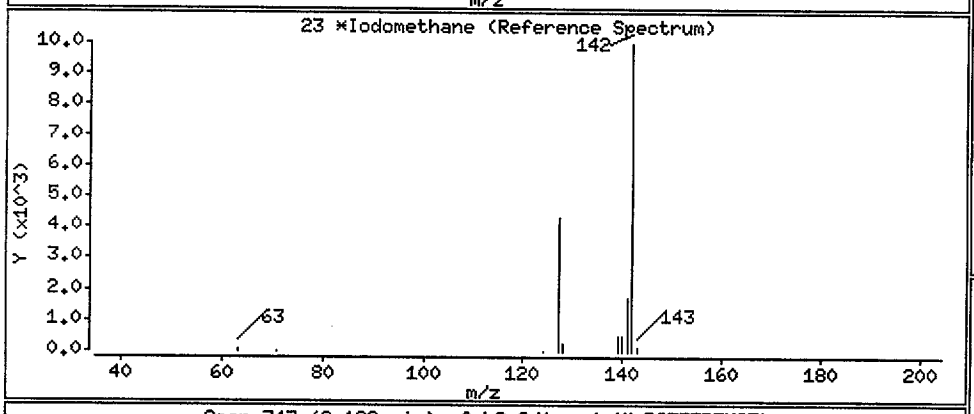
Concentration: 0.015137 ug

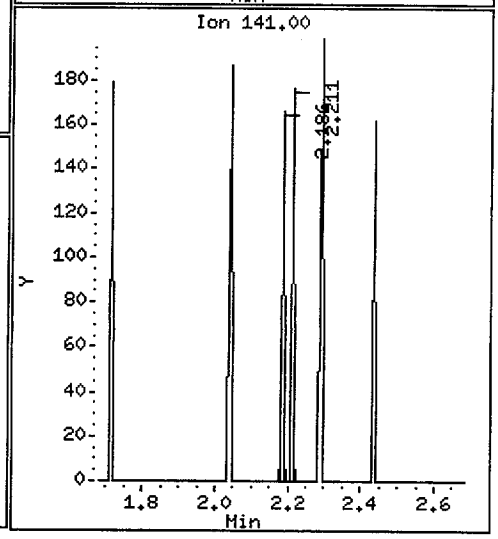


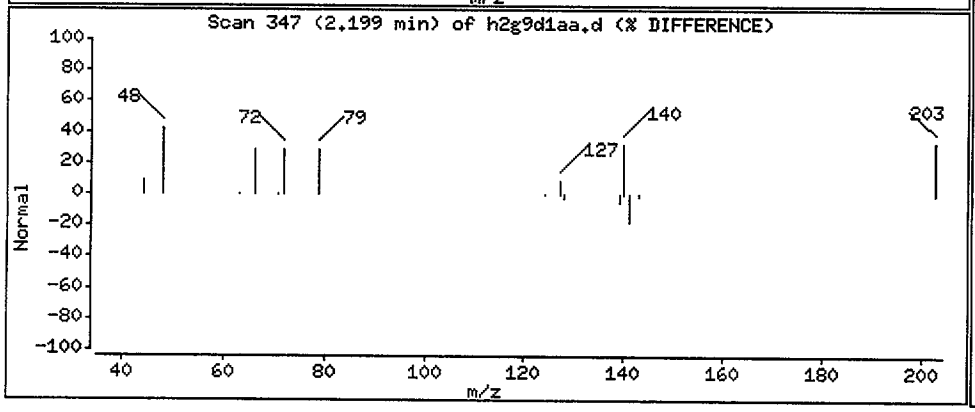












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

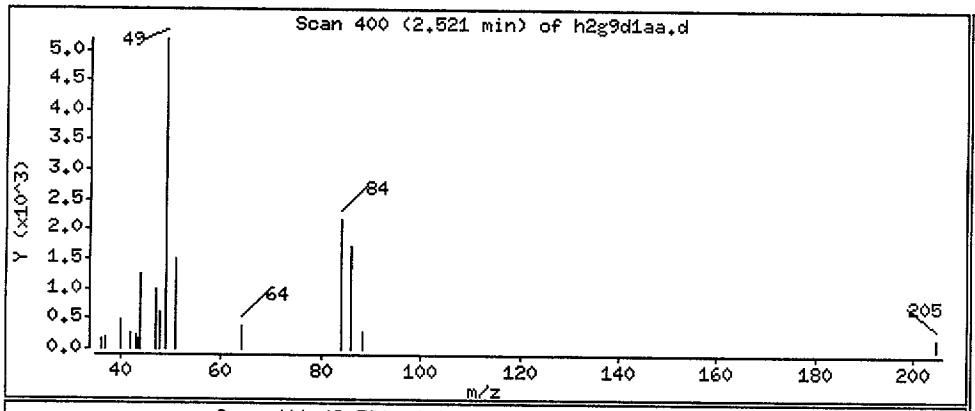
Operator: 22980

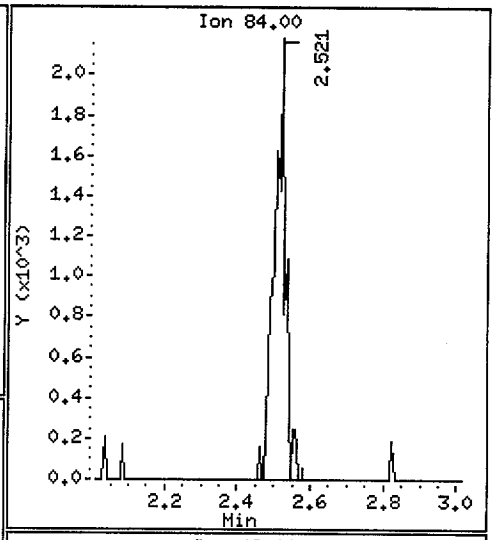
Column phase: J+W 624

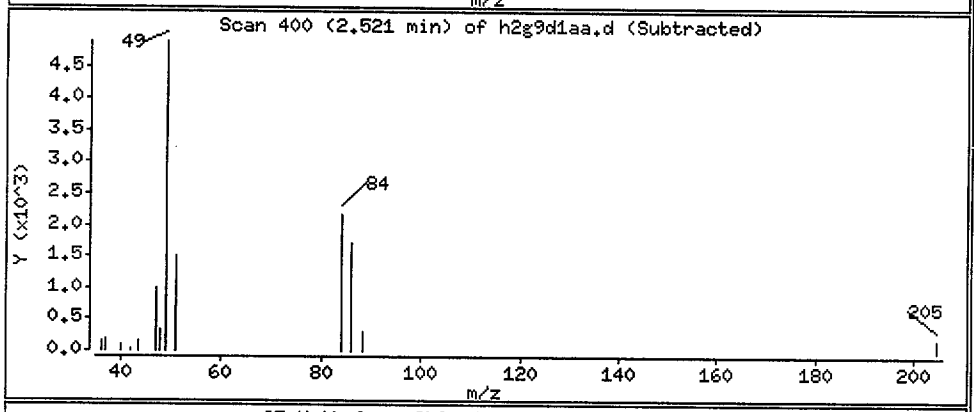
Column diameter: 0.18

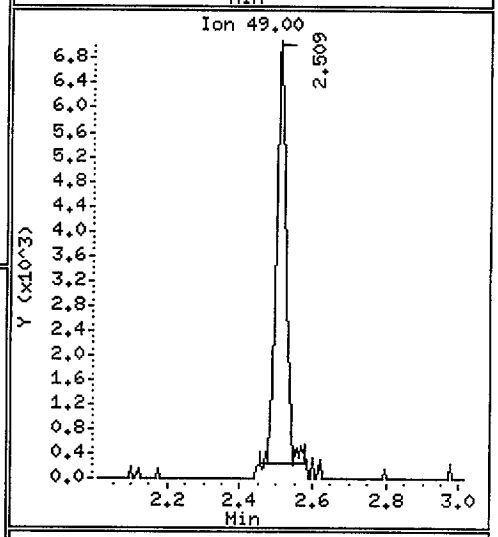
27 Methylene Chloride

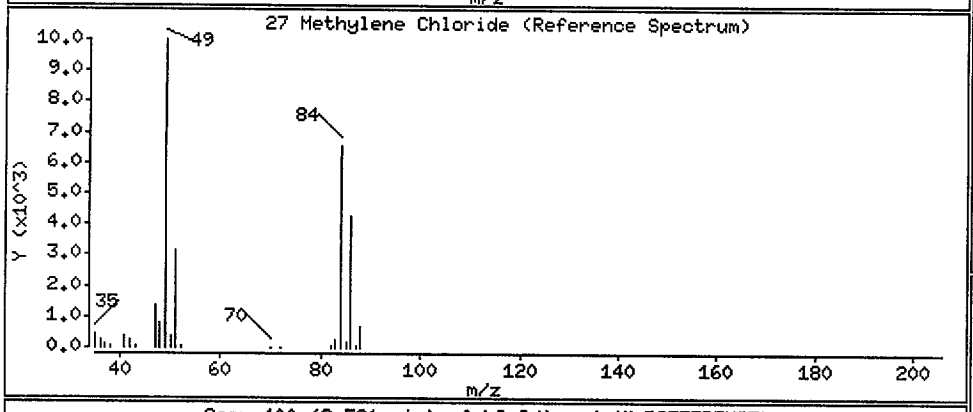
Concentration: 0.012119 ug

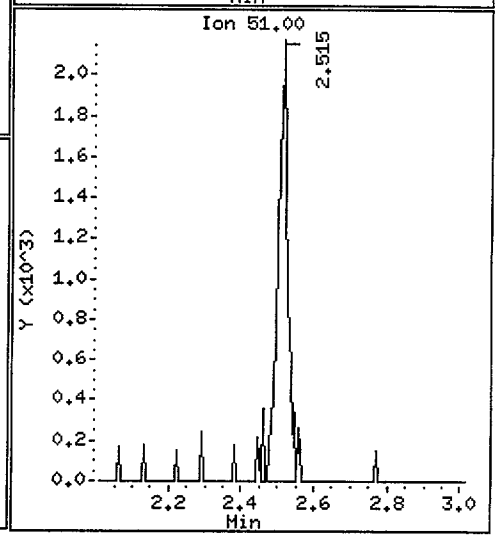


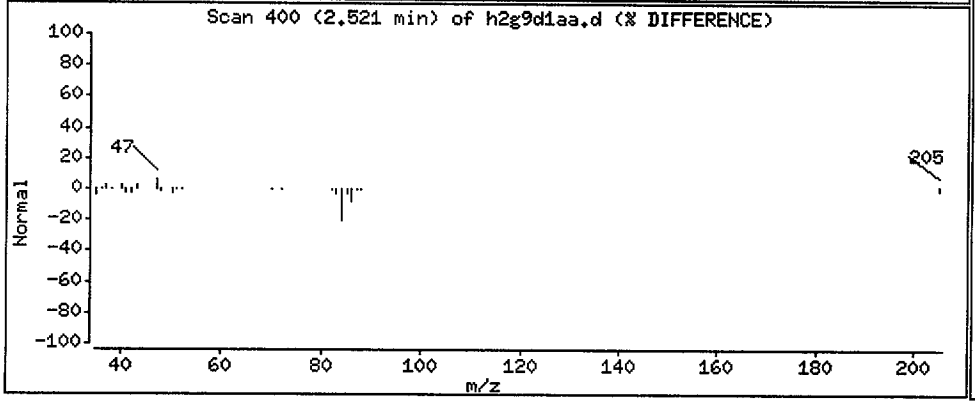












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

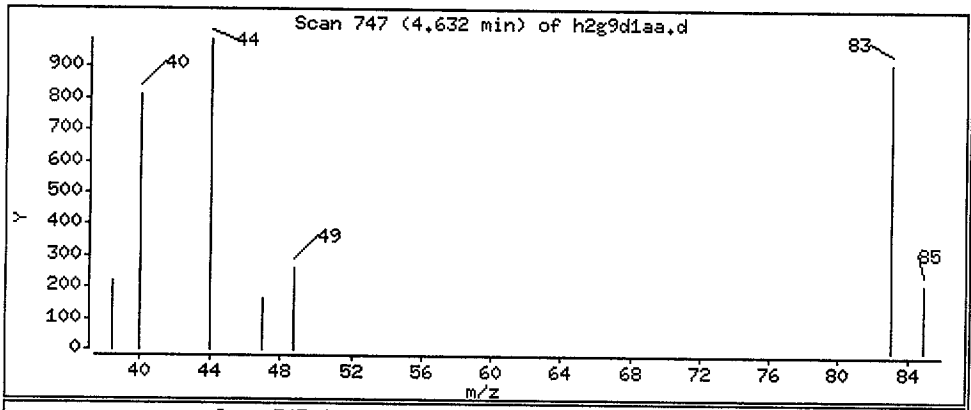
Operator: 22980

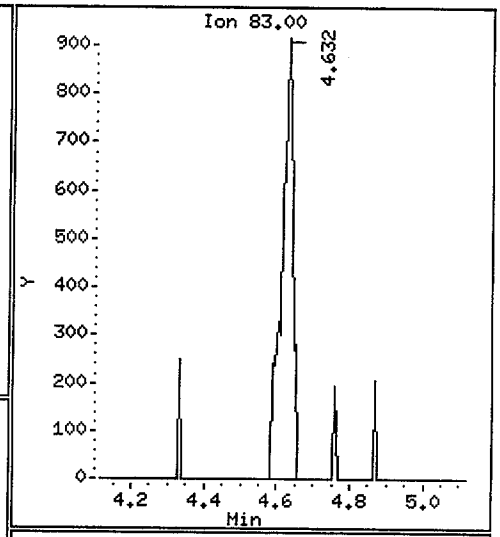
Column phase: J+W 624

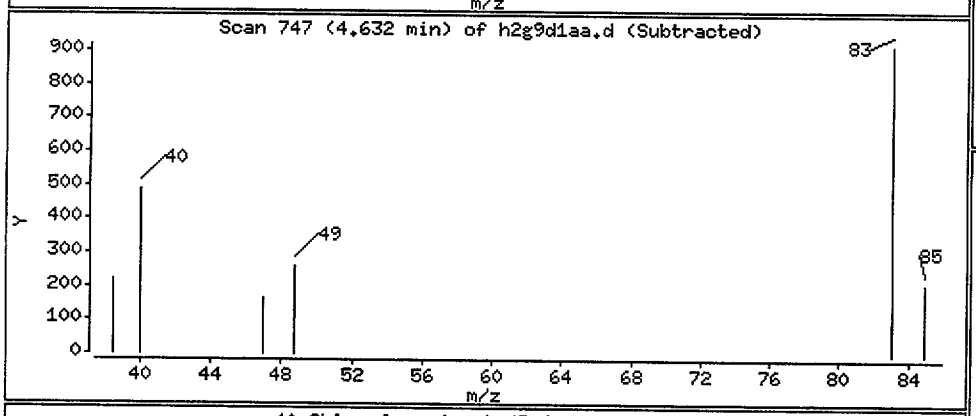
Column diameter: 0.18

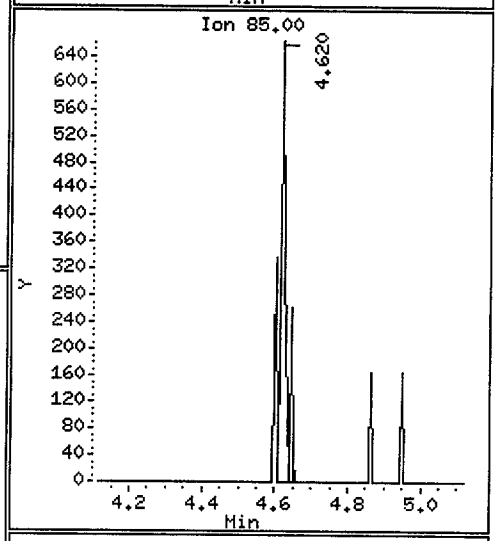
40 Chloroform (ccc)

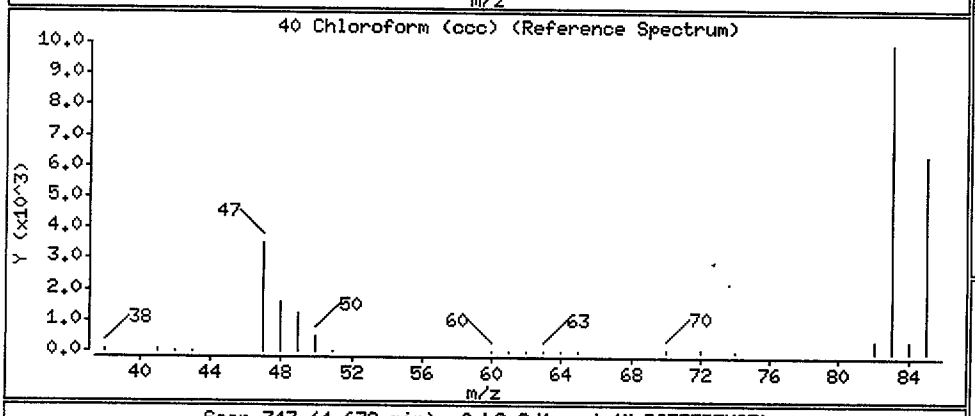
Concentration: 0.0022924 ug

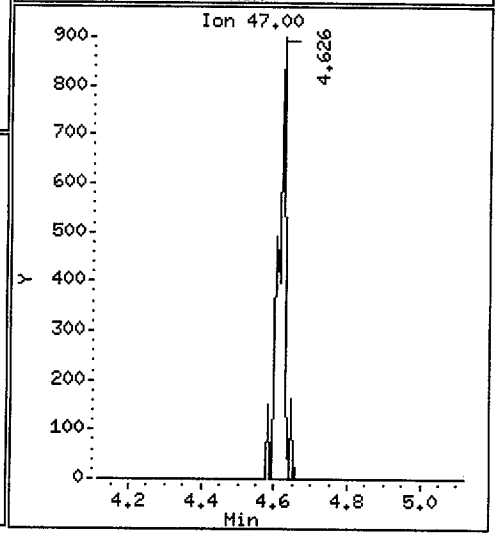


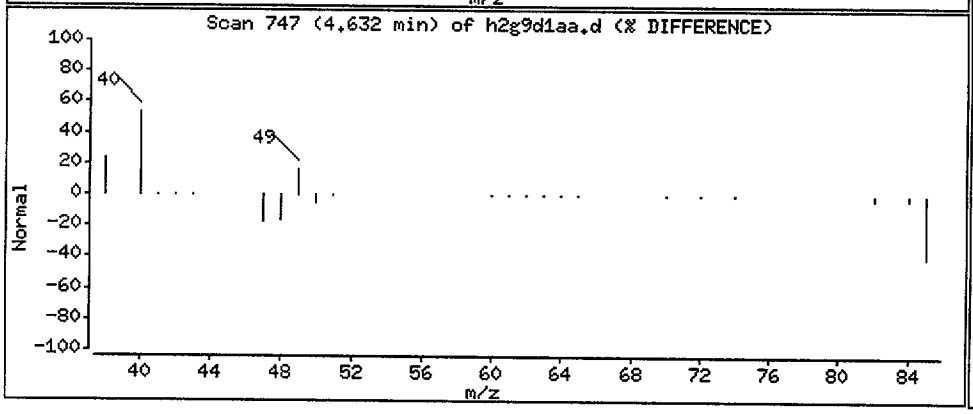












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

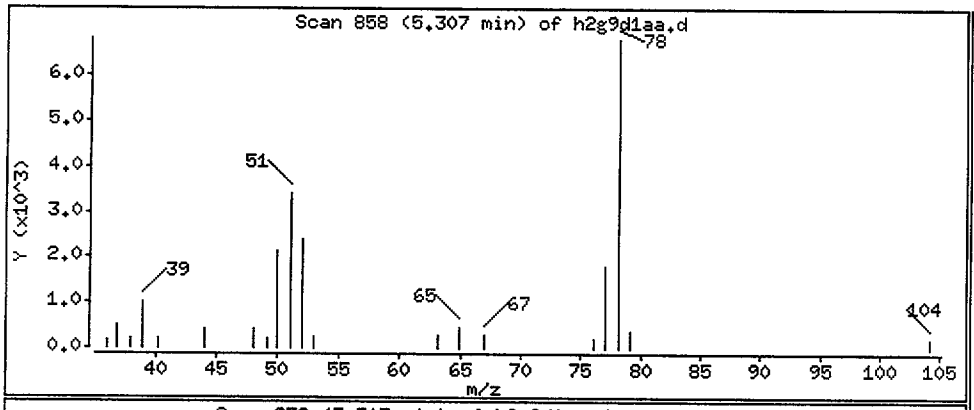
Operator: 22980

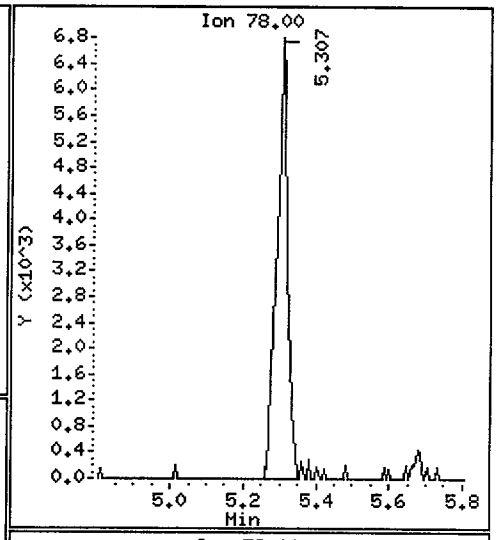
Column phase: J+W 624

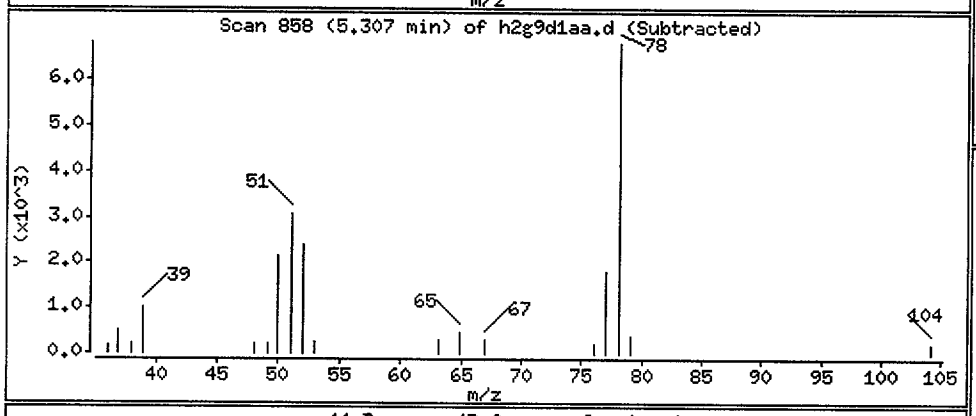
Column diameter: 0.18

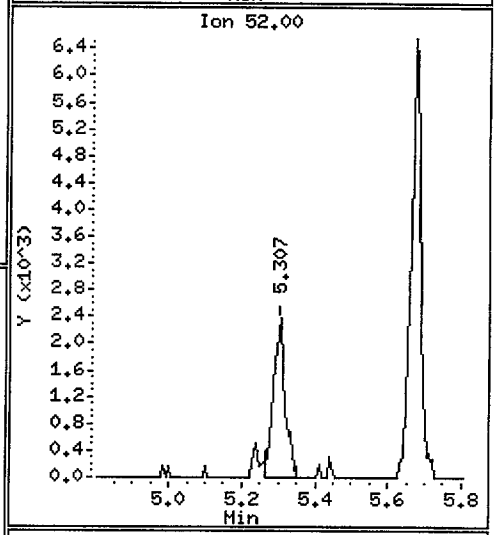
44 Benzene

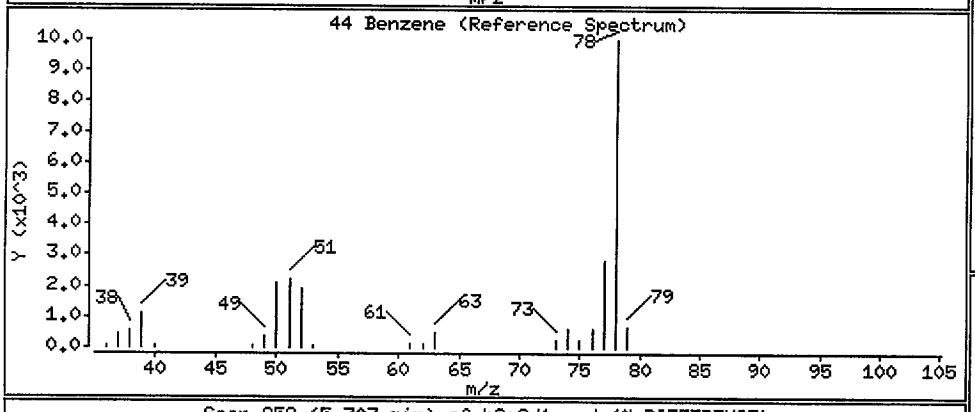
Concentration: 0.0062372 ug

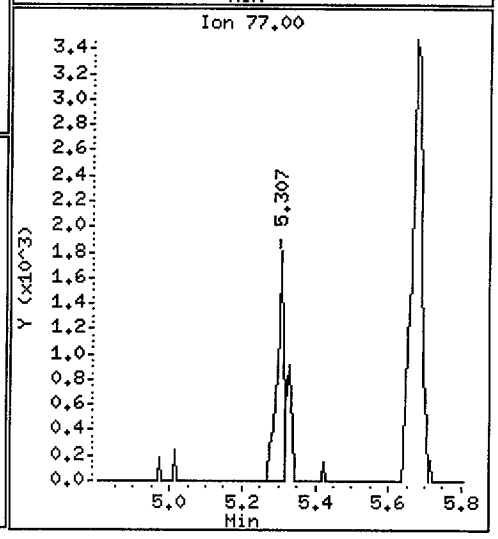


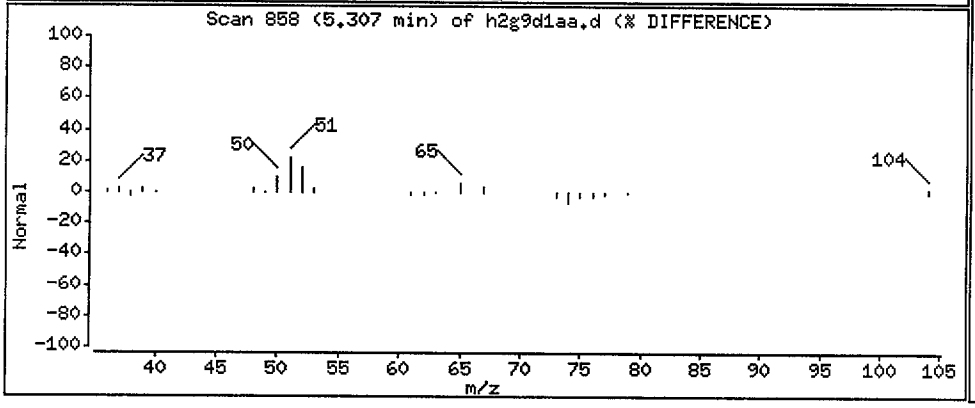












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1.0,,

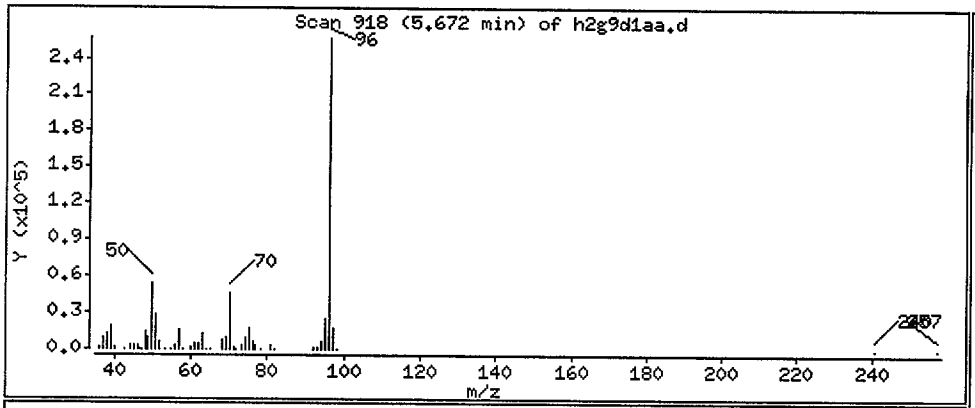
Operator: 22980

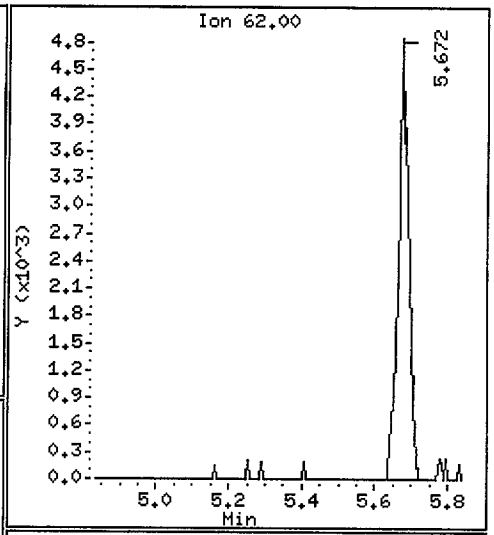
Column phase: J+W 624

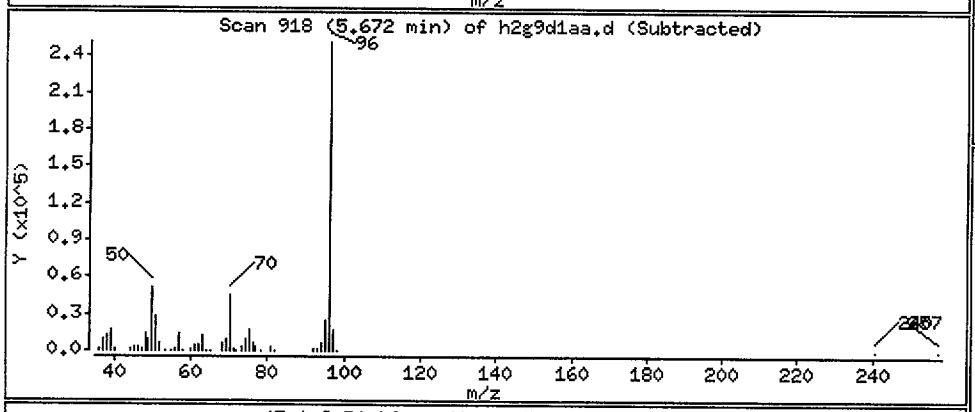
Column diameter: 0.18

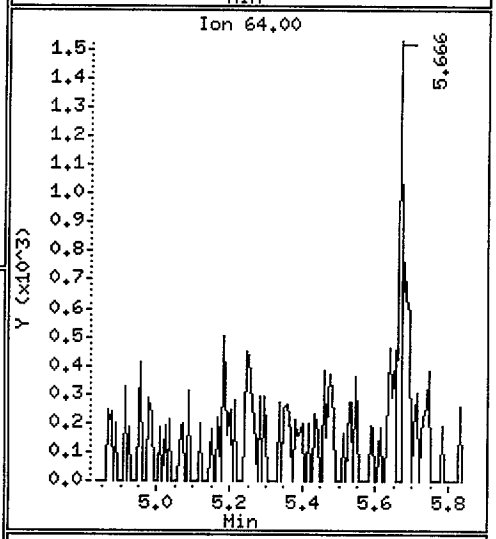
45 1,2-Dichloroethane

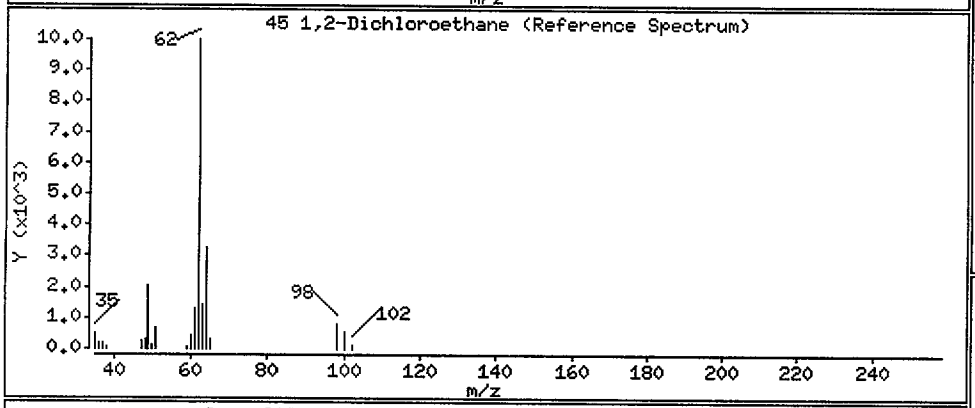
Concentration: 0.019687 ug

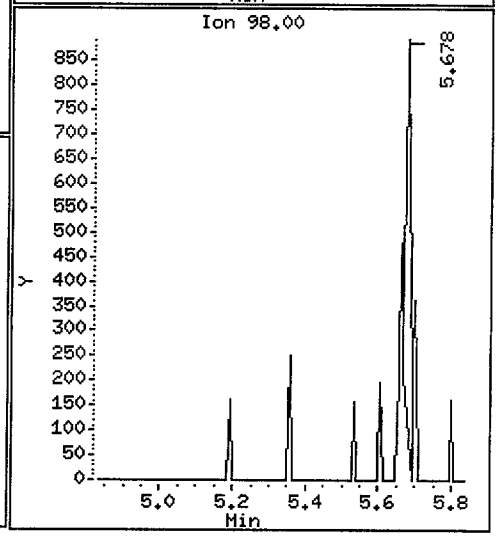


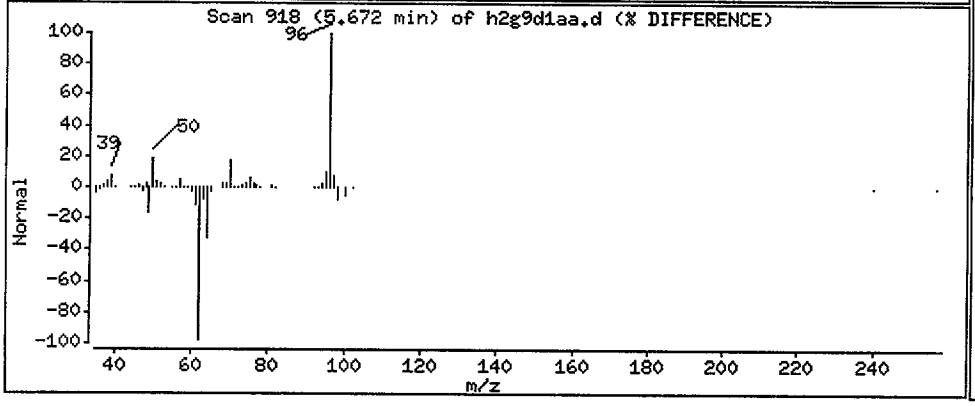












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

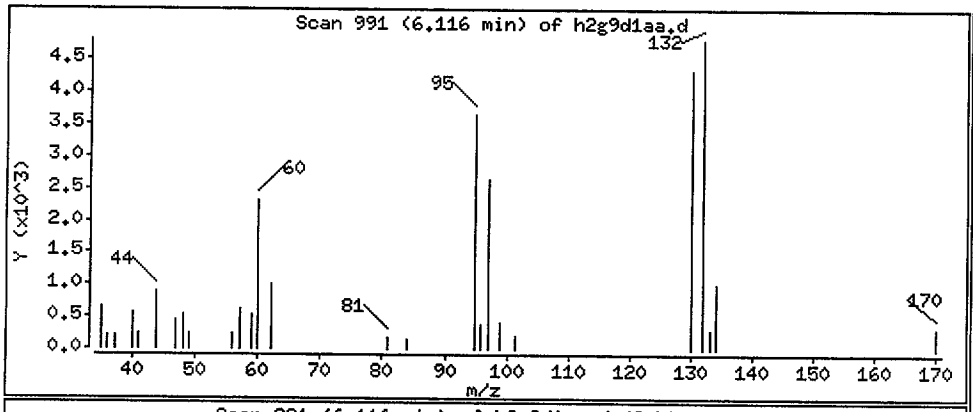
Operator: 22980

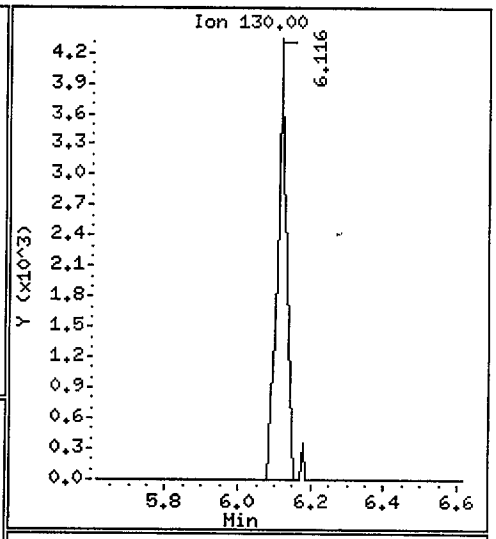
Column phase: J+W 624

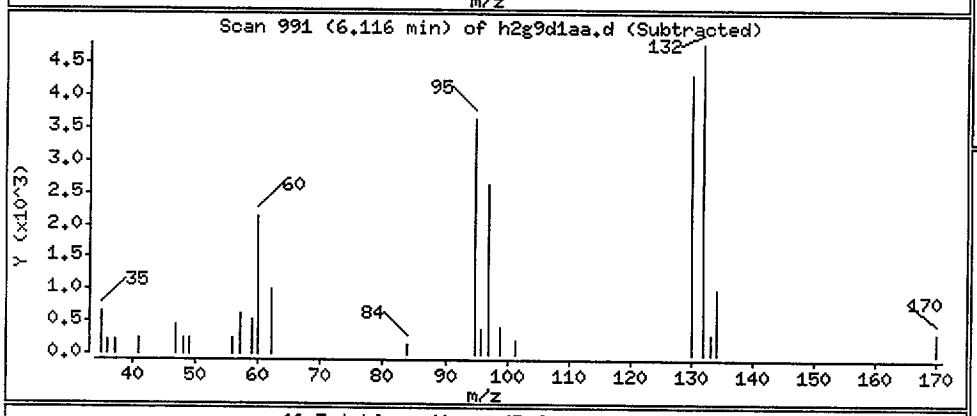
Column diameter: 0.18

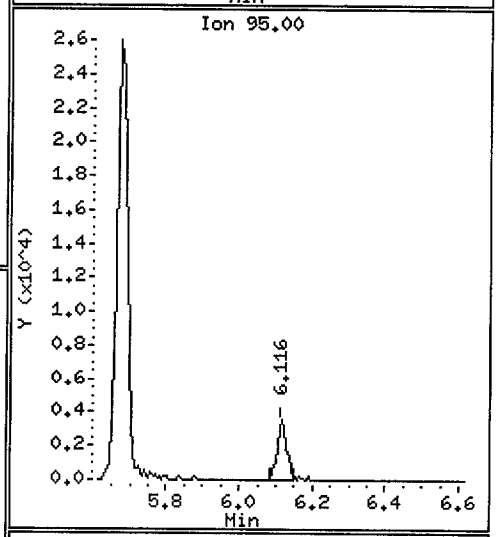
46 Trichloroethene

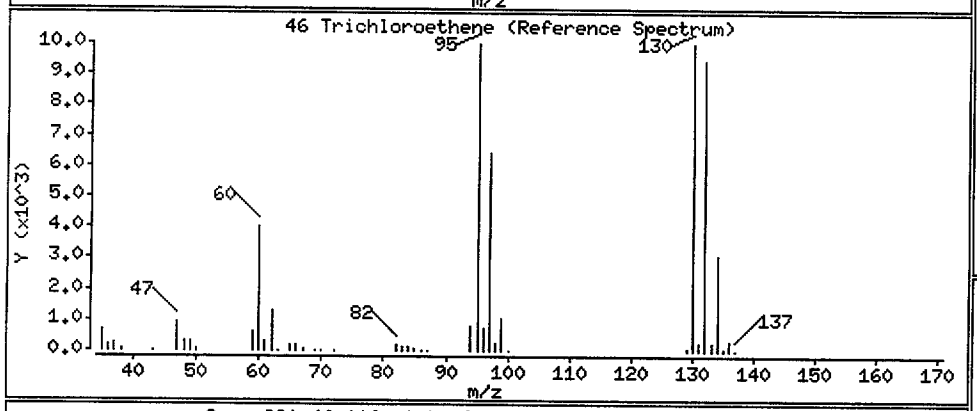
Concentration: 0.011636 ug

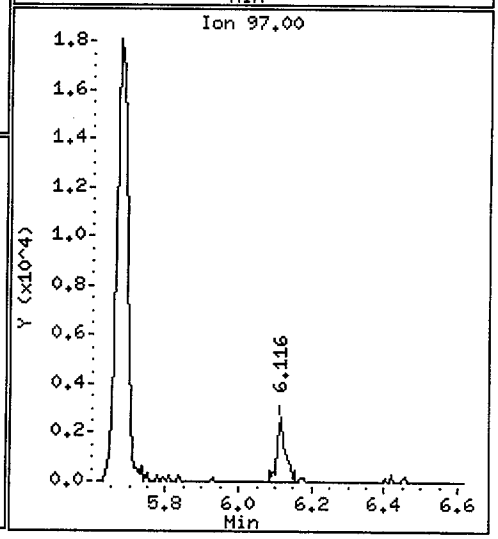


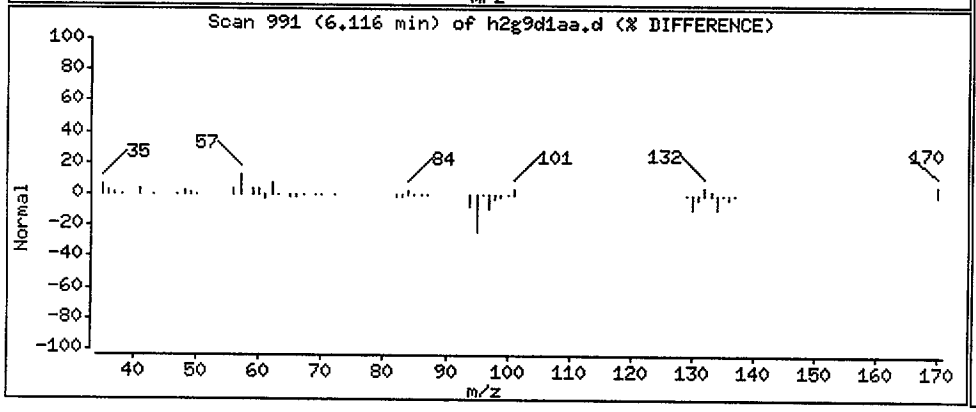












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

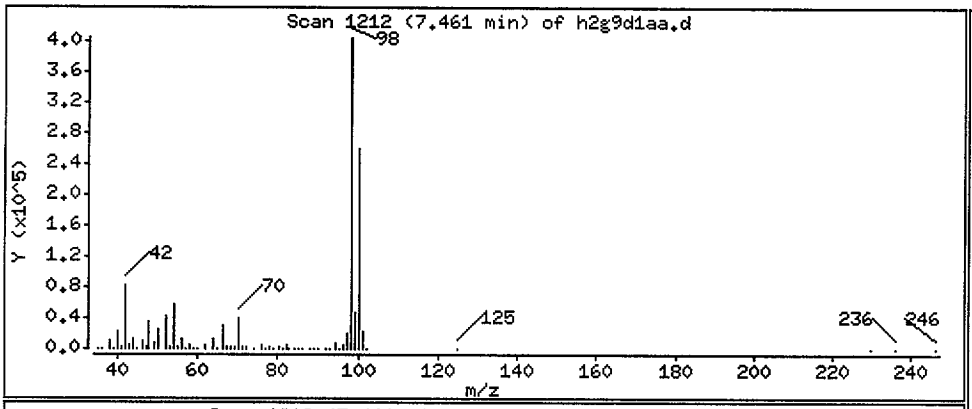
Operator: 22980

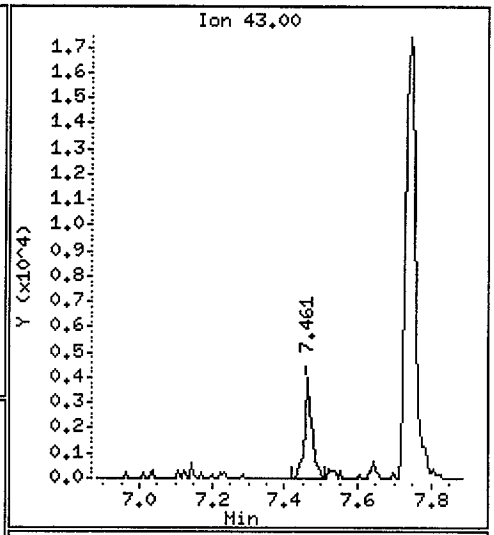
Column phase: J+W 624

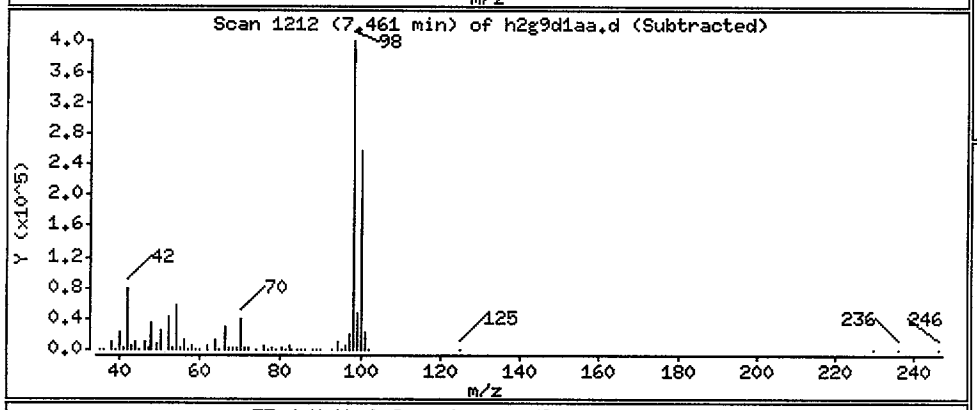
Column diameter: 0.18

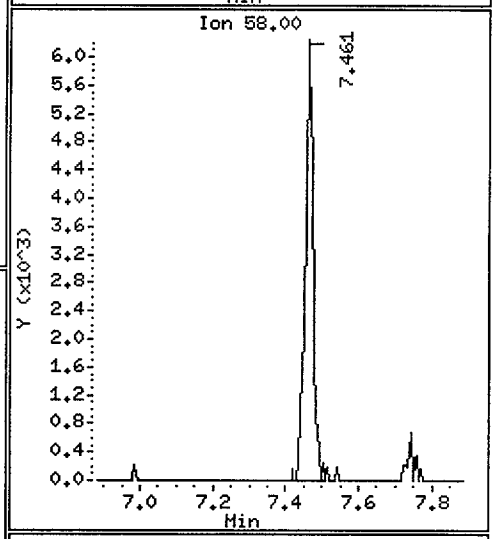
53 4-Methyl-2-pentanone

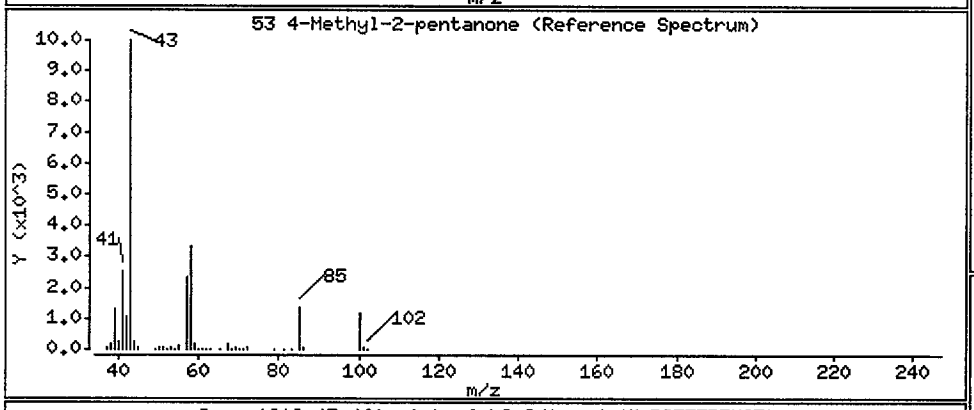
Concentration: 0.029166 ug

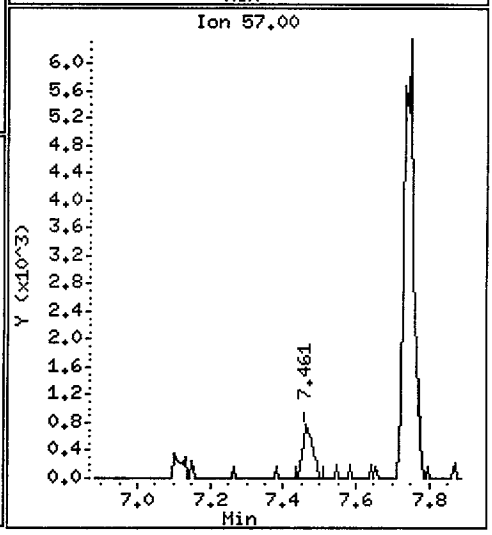


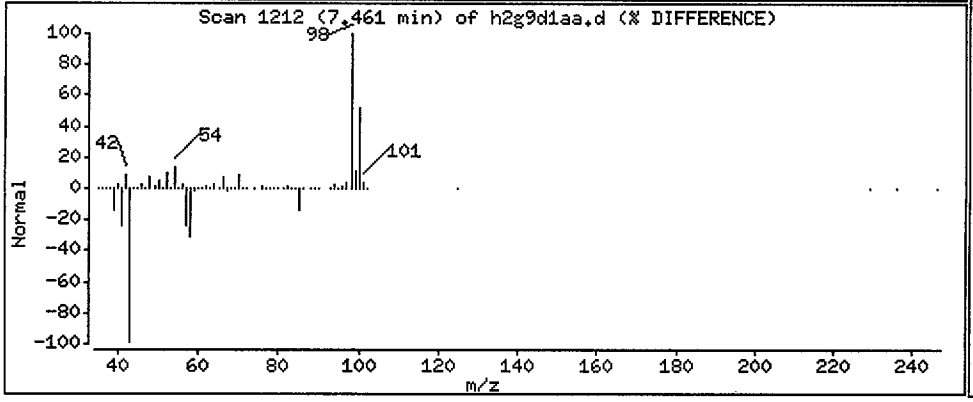












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

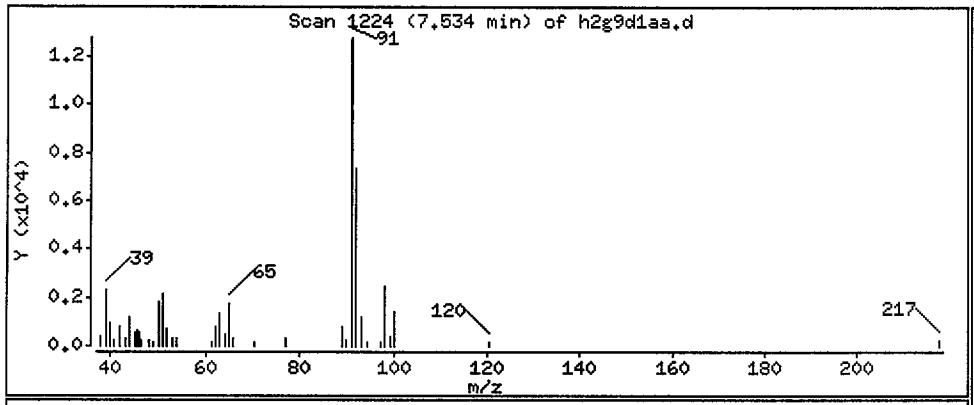
Operator: 22980

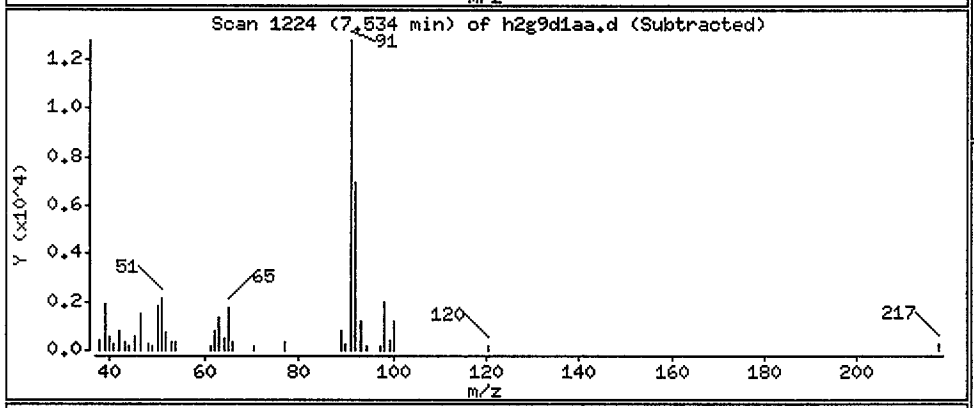
Column phase: J+W 624

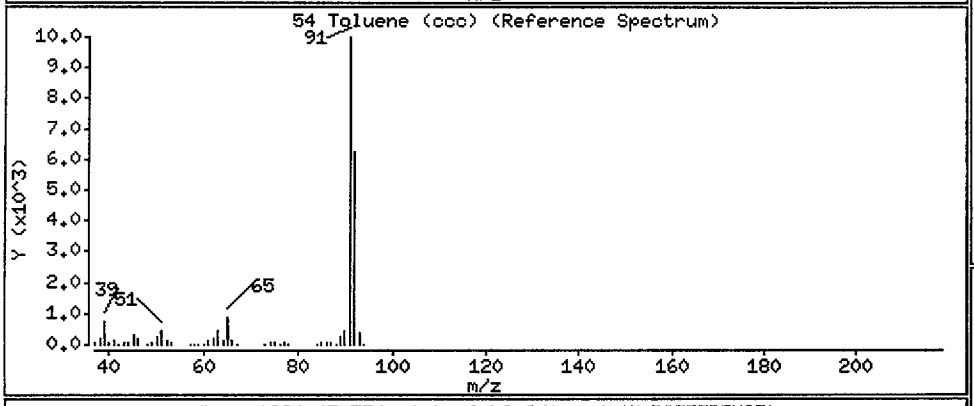
Column diameter: 0.18

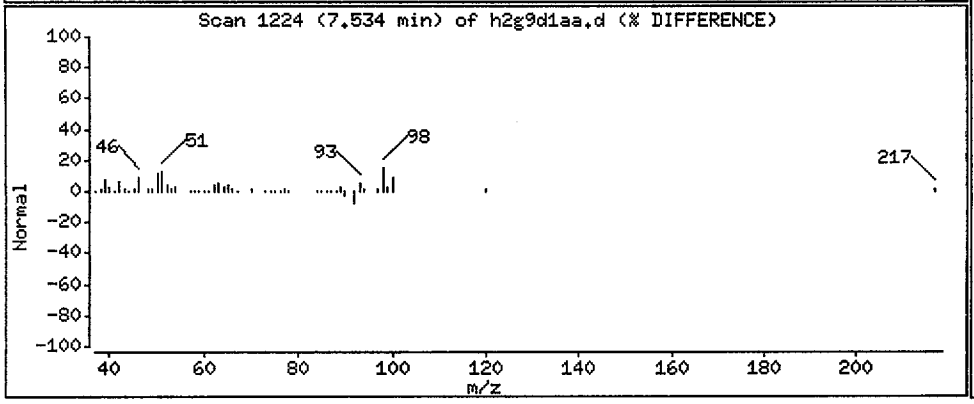
54 Toluene (ccc)

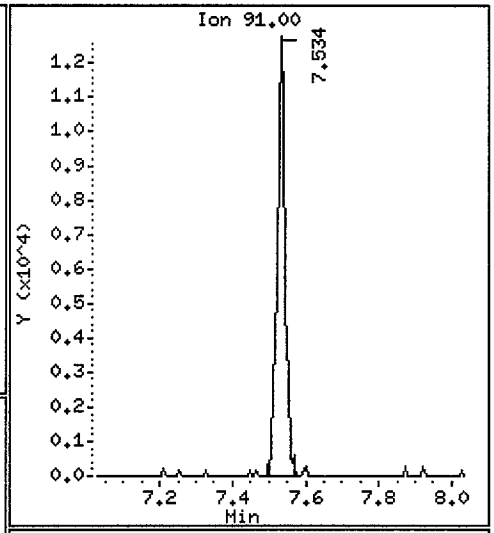
Concentration: 0.0056366 ug

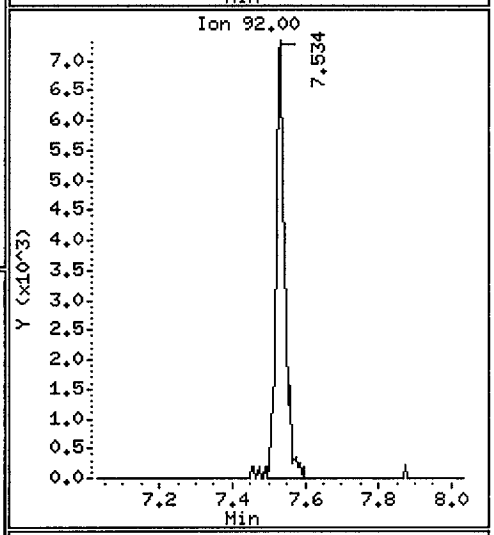


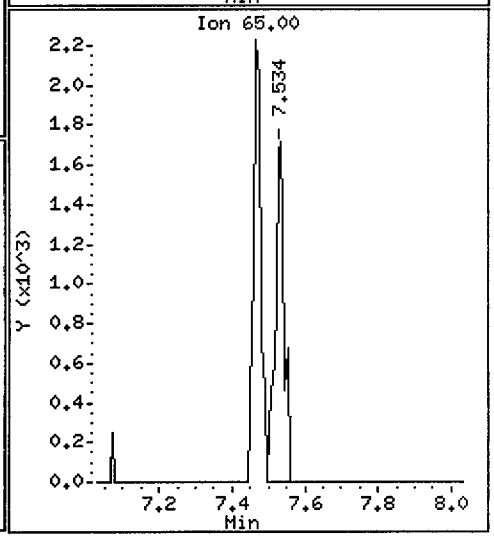












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

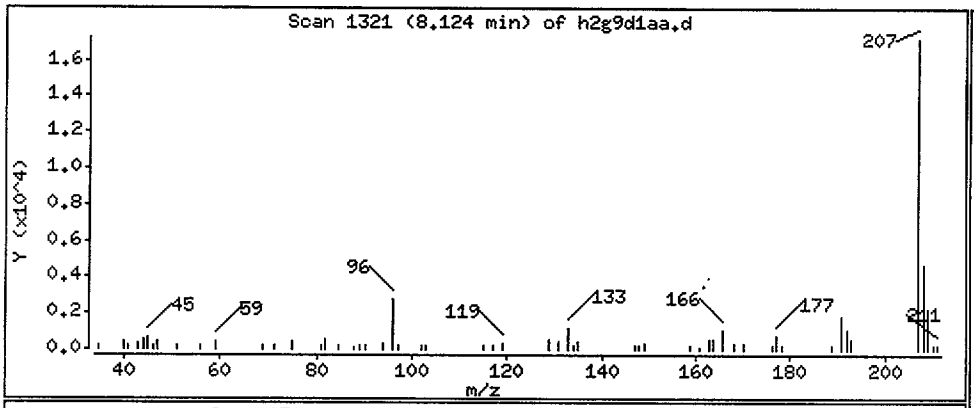
Operator: 22980

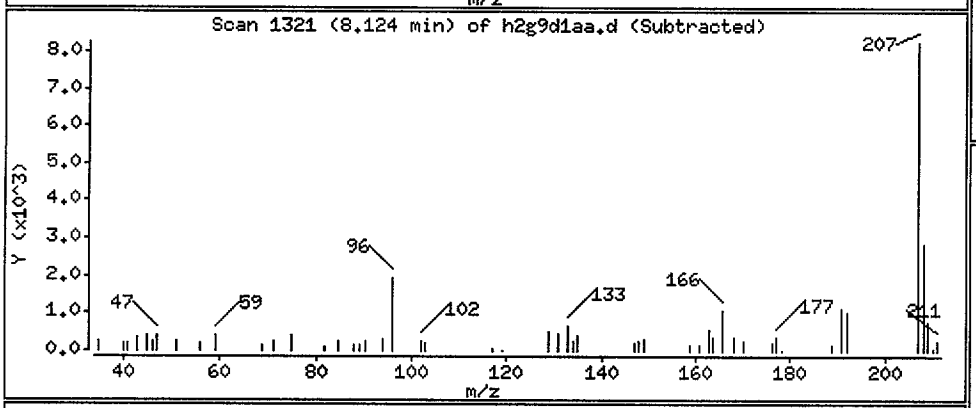
Column phase: J+W 624

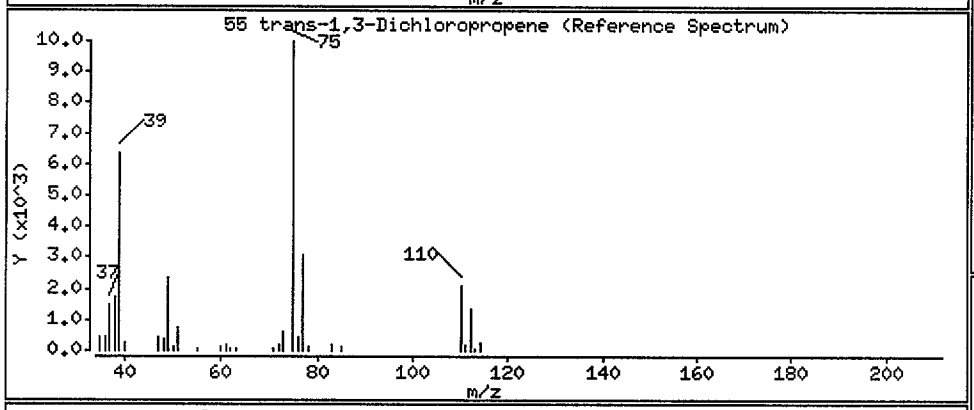
Column diameter: 0.18

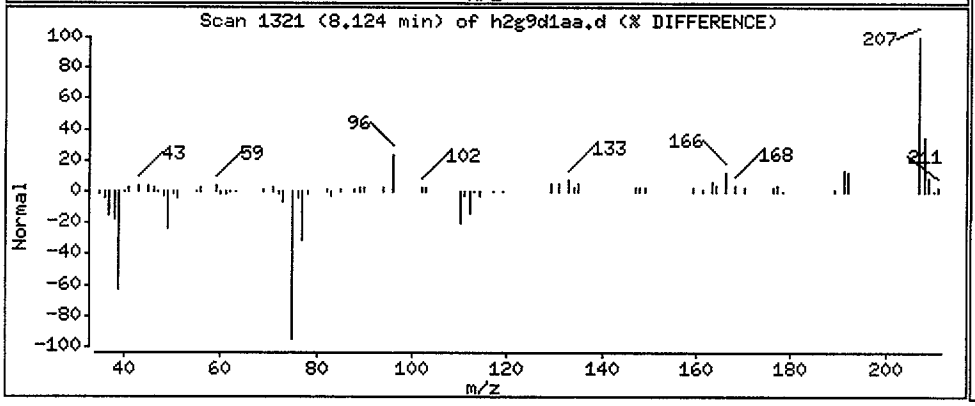
55 trans-1,3-Dichloropropene

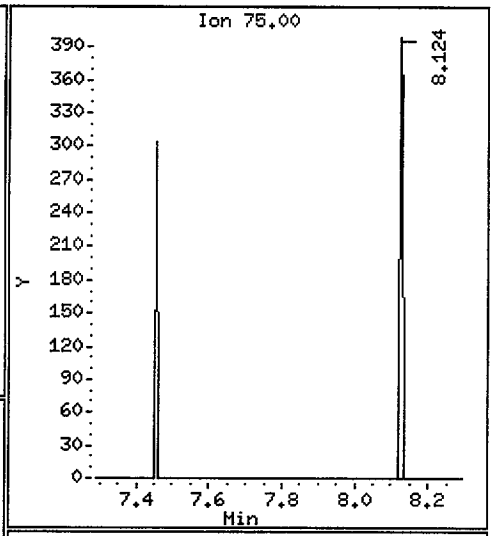
Concentration: 0.016118 ug

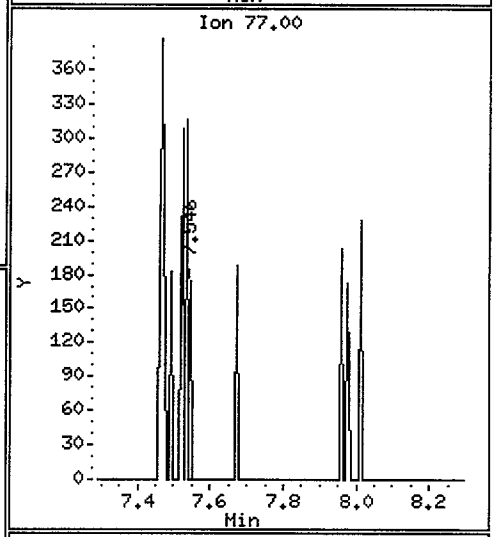


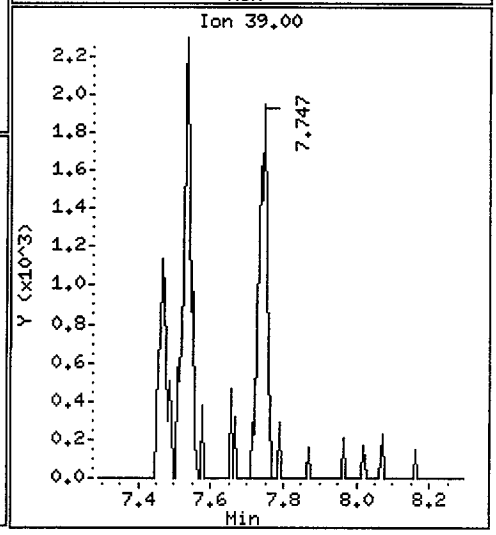












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

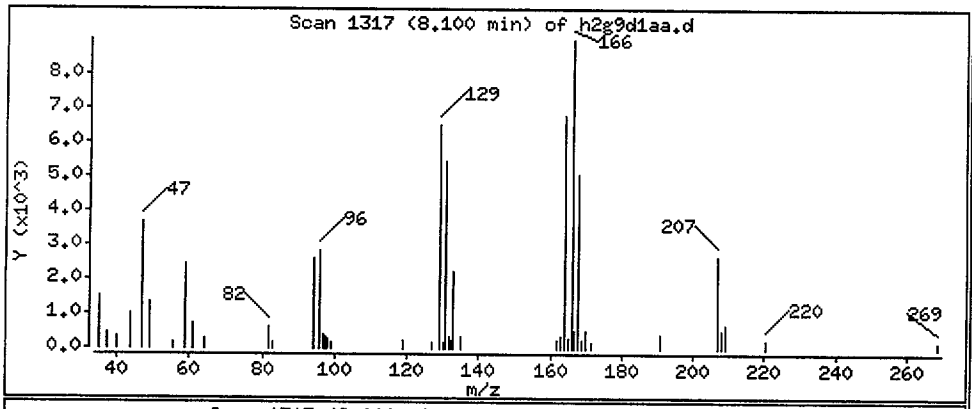
Operator: 22980

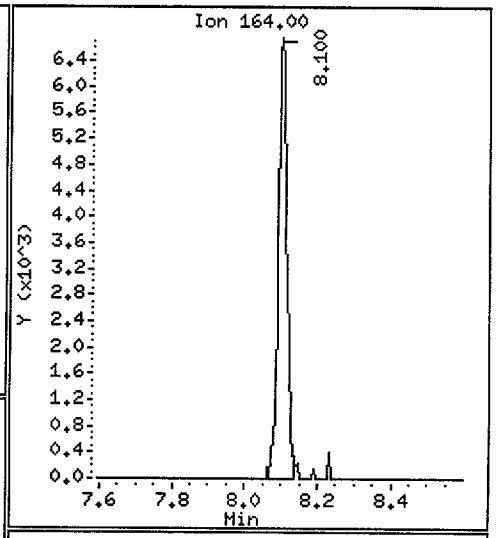
Column phase: J+W 624

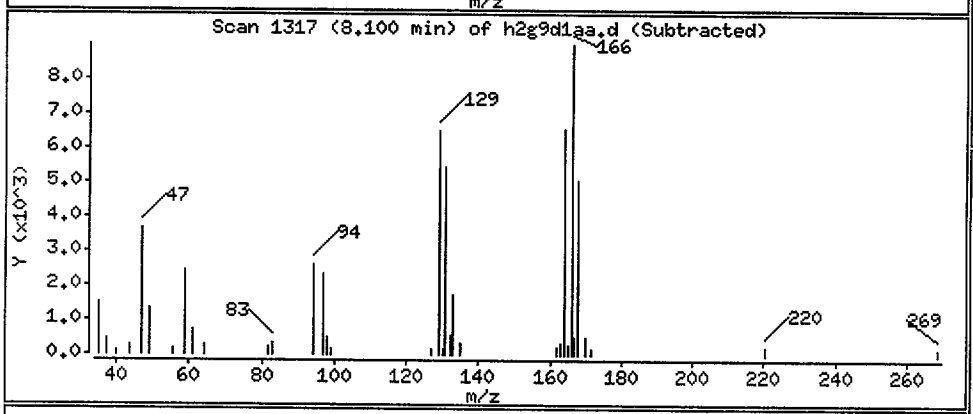
Column diameter: 0.18

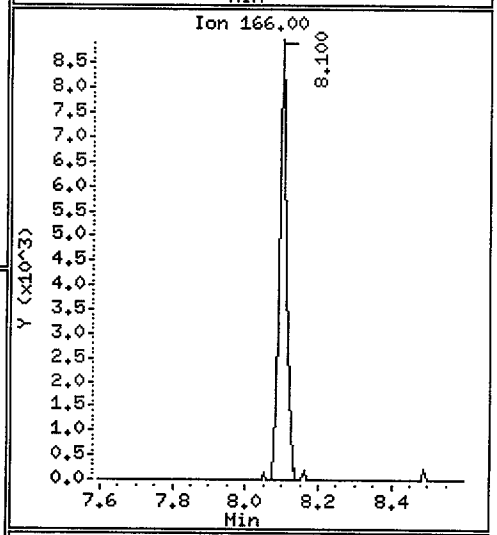
58 Tetrachloroethene

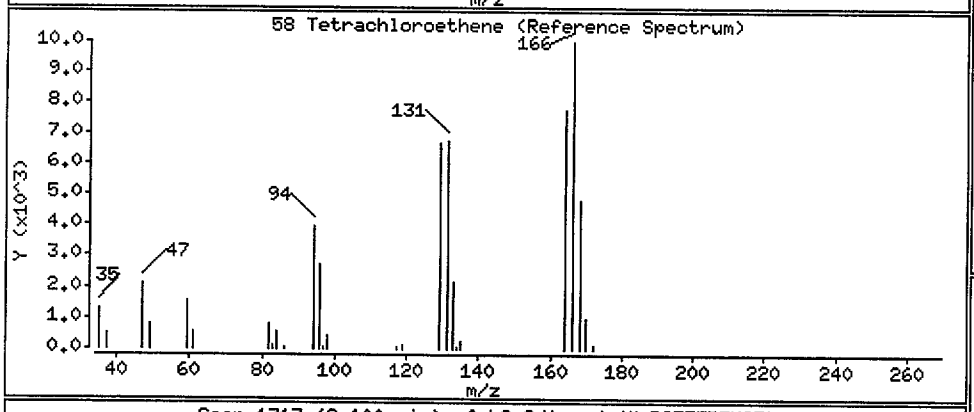
Concentration: 0.015936 ug

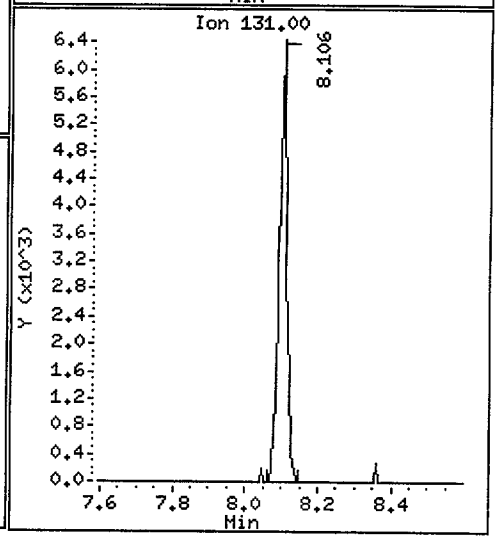


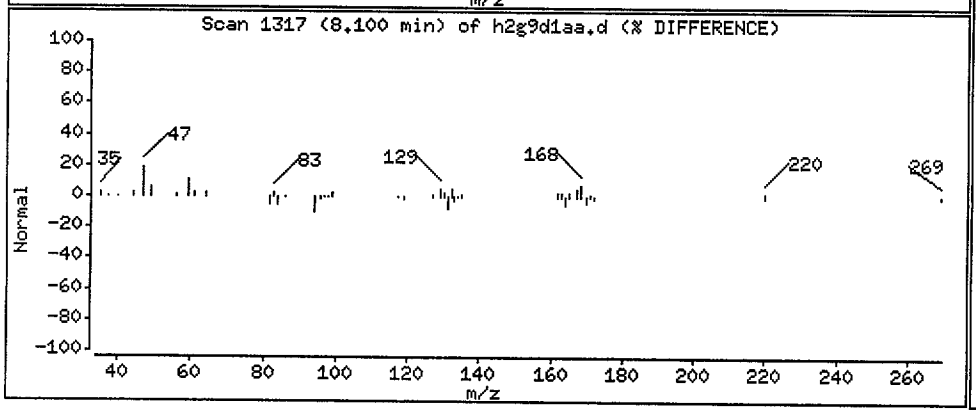












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

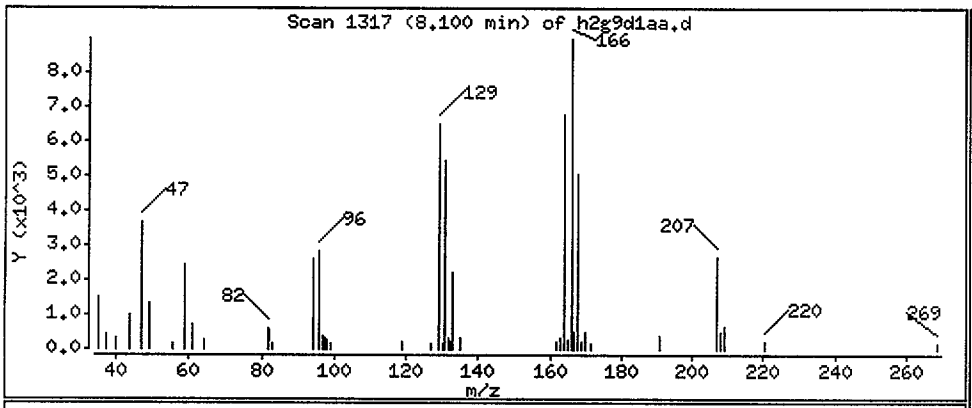
Operator: 22980

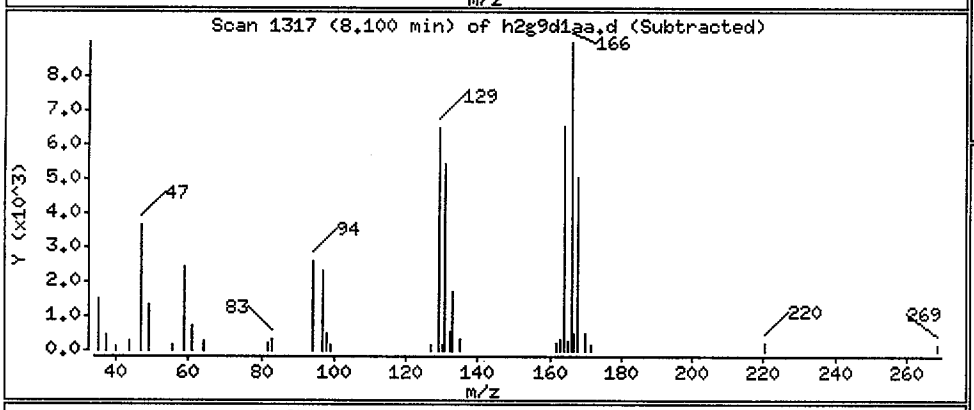
Column phase: J+W 624

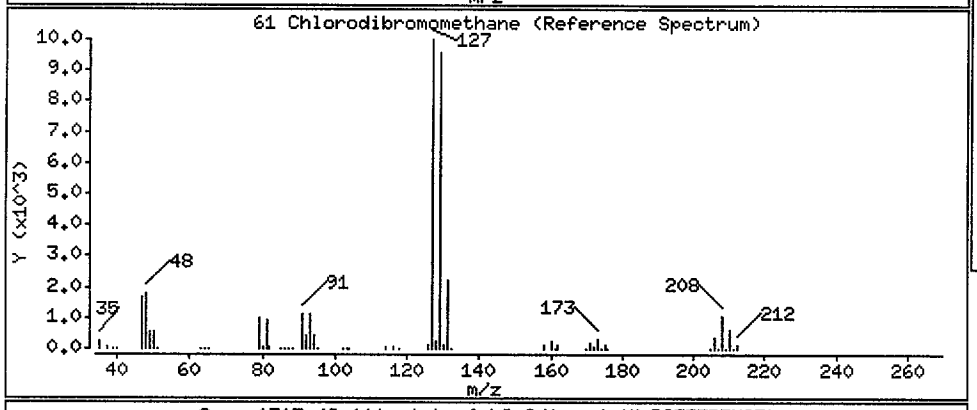
Column diameter: 0.18

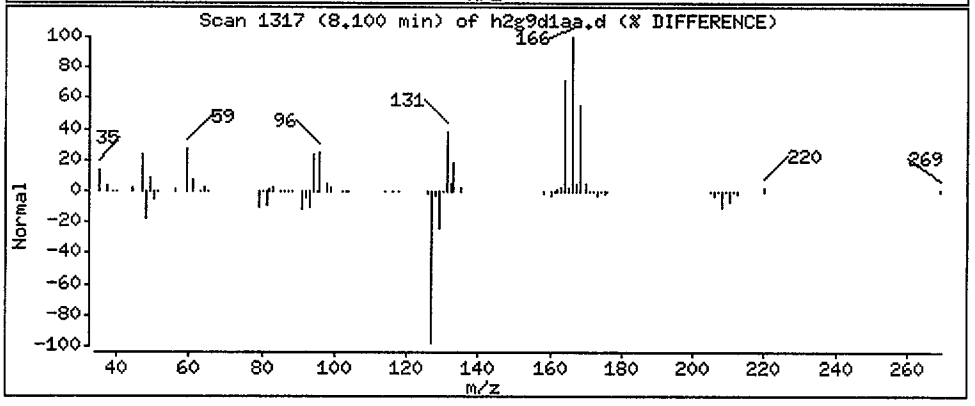
61 Chlorodibromomethane

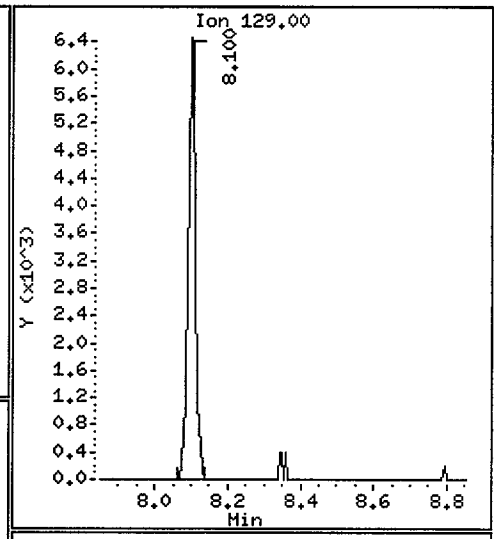
Concentration: 0.049699 ug

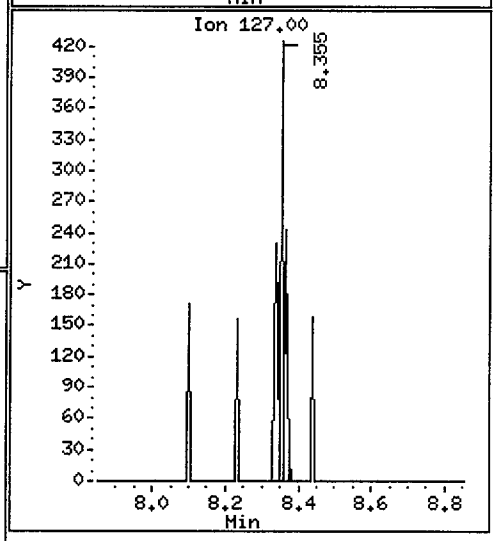












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

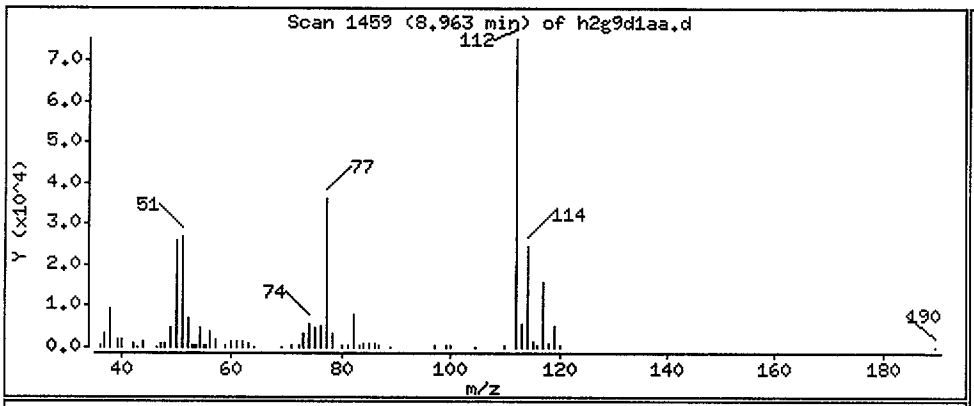
Operator: 22980

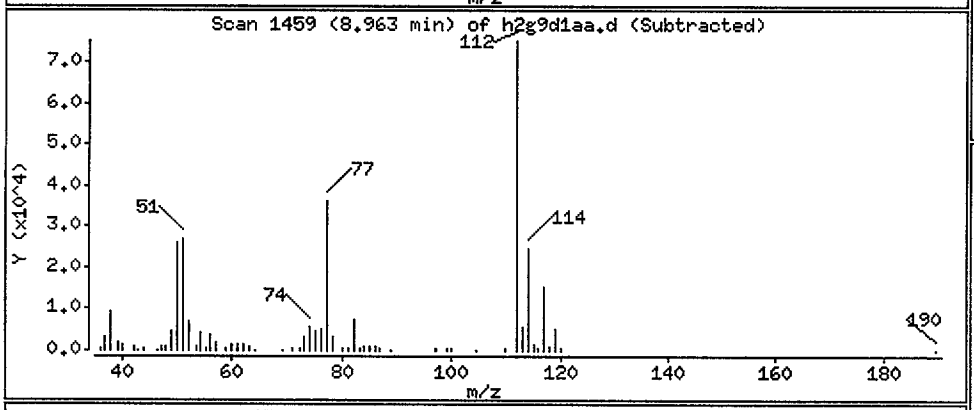
Column phase: J+W 624

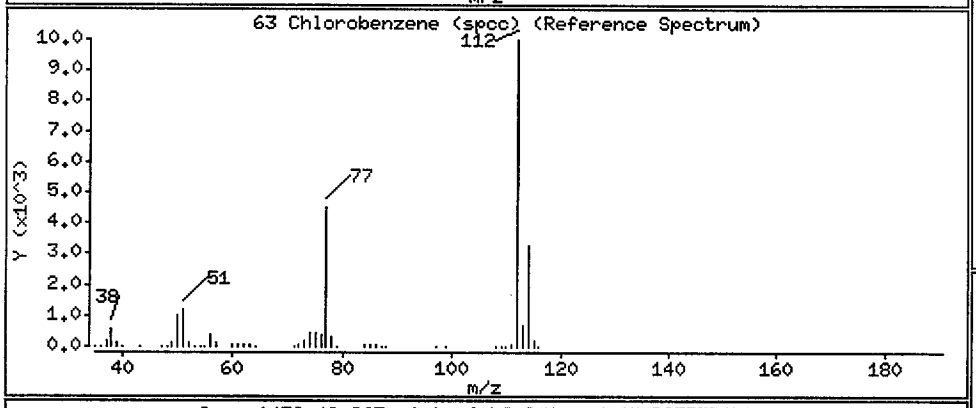
Column diameter: 0.18

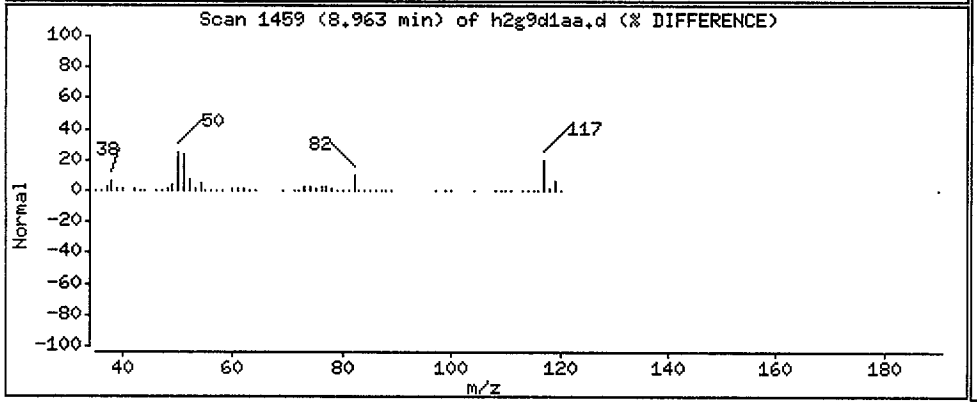
63 Chlorobenzene (spcc)

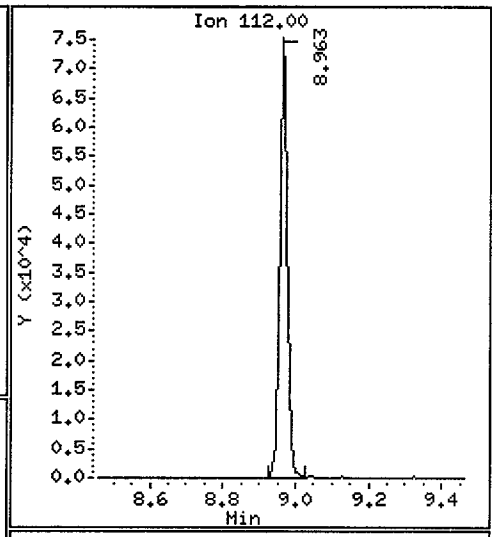
Concentration: 0.056245 ug

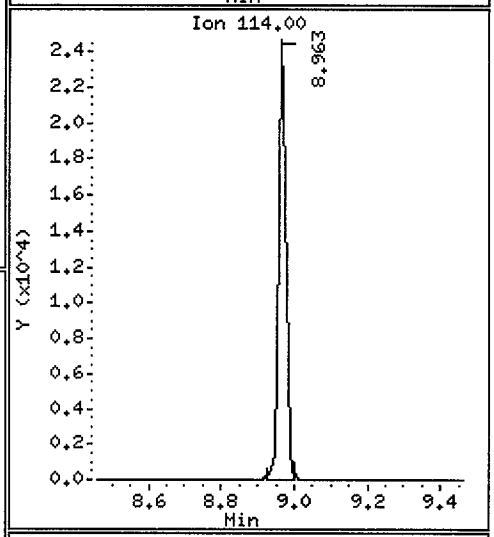


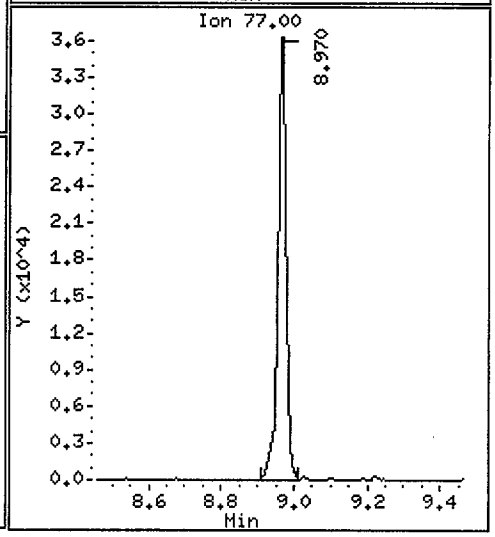












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

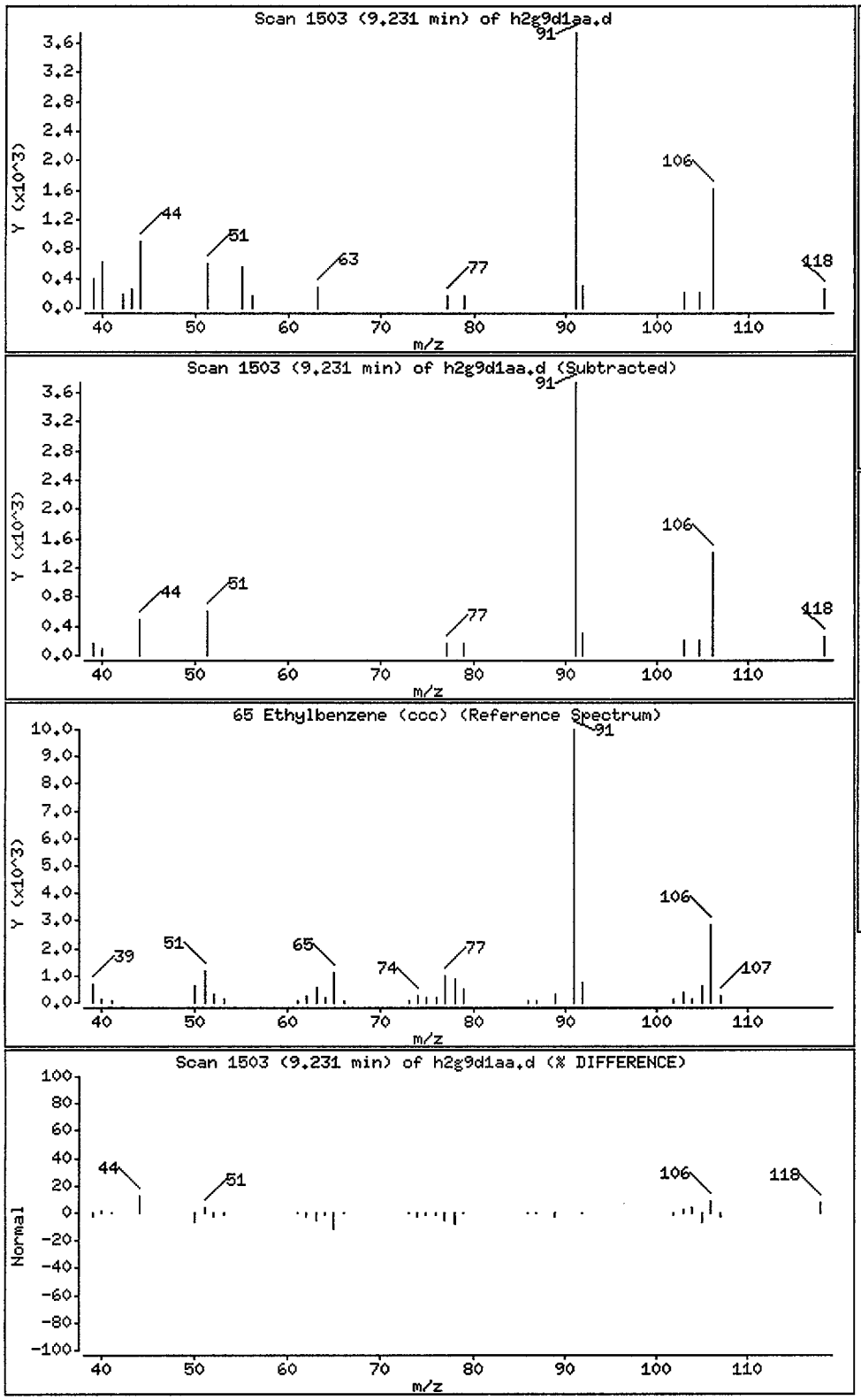
Operator: 22980

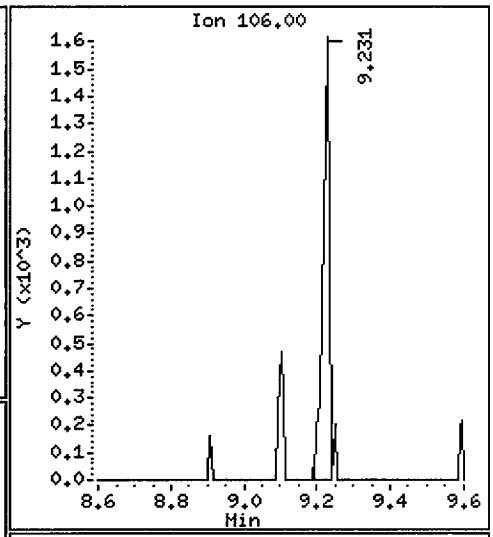
Column phase: J+W 624

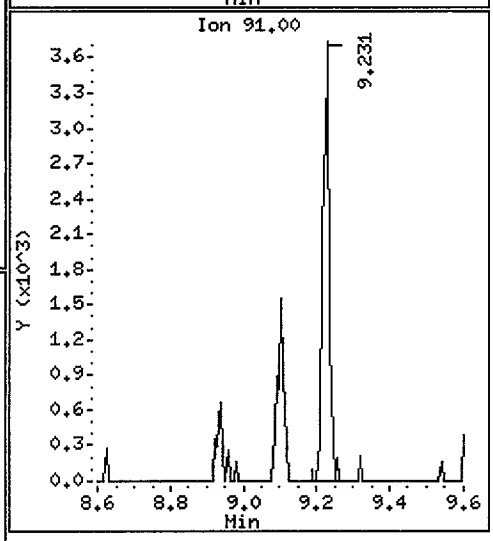
Column diameter: 0.18

65 Ethylbenzene (ccc)

Concentration: 0.0017030 ug







Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

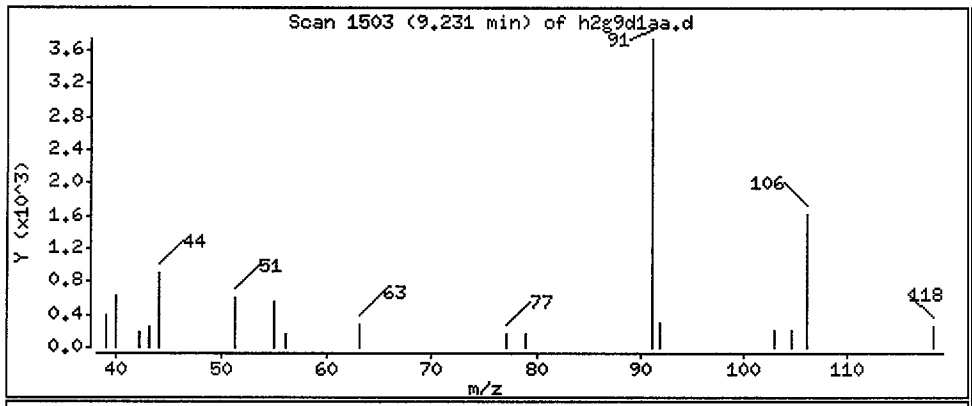
Operator: 22980

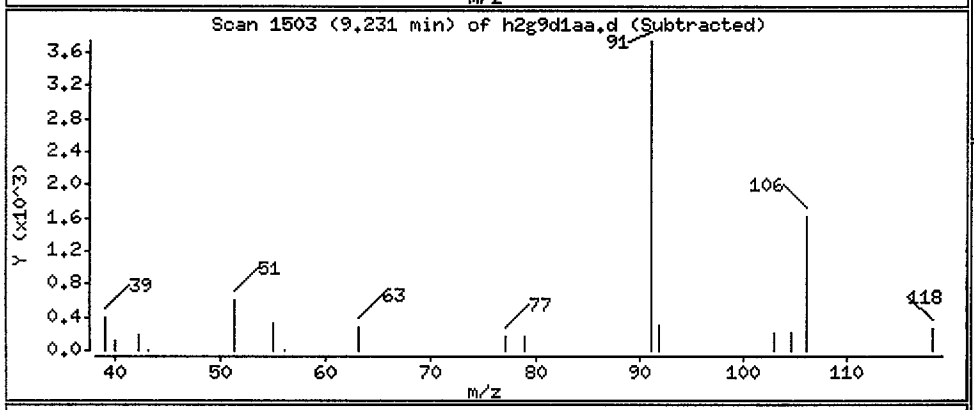
Column phase: J+W 624

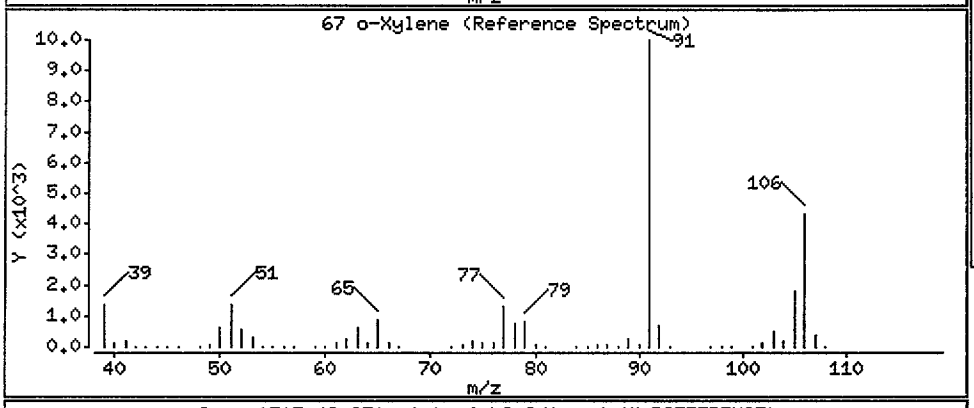
Column diameter: 0.18

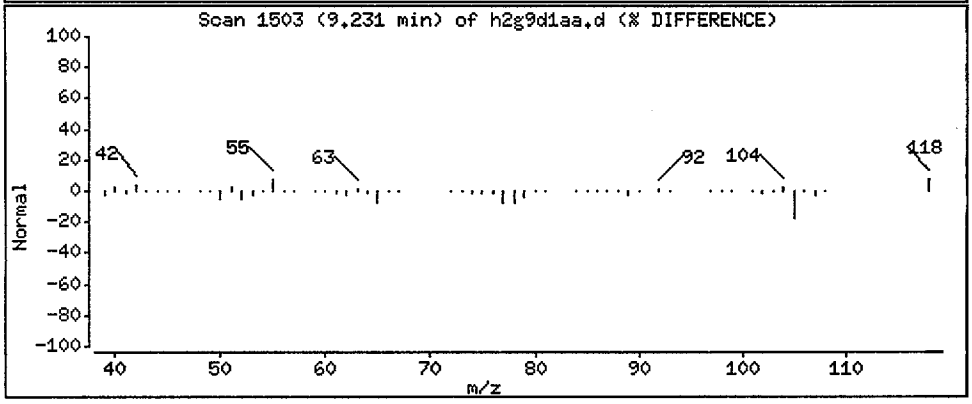
67 o-Xylene

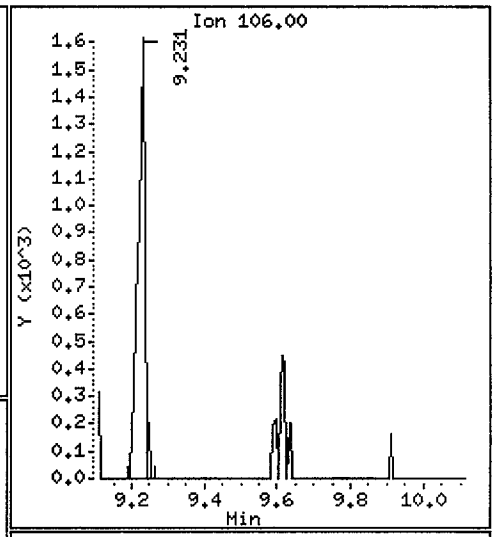
Concentration: 0.0016509 ug

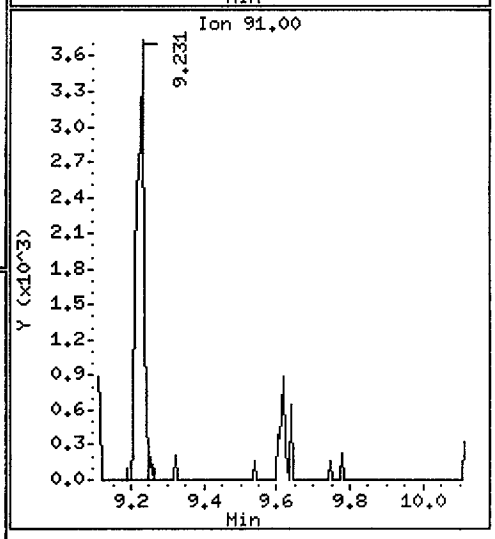












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

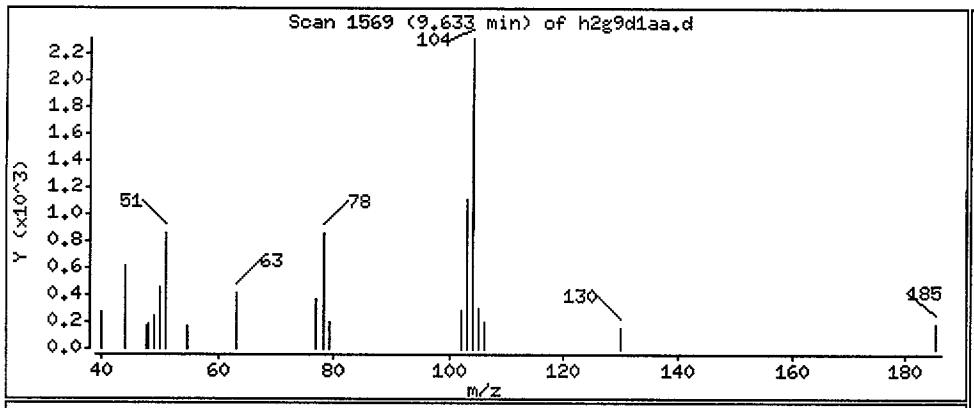
Operator: 22980

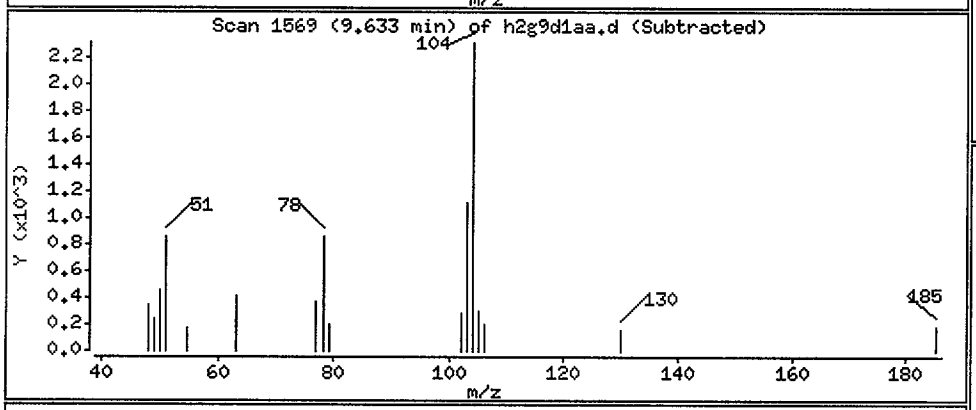
Column phase: J+W 624

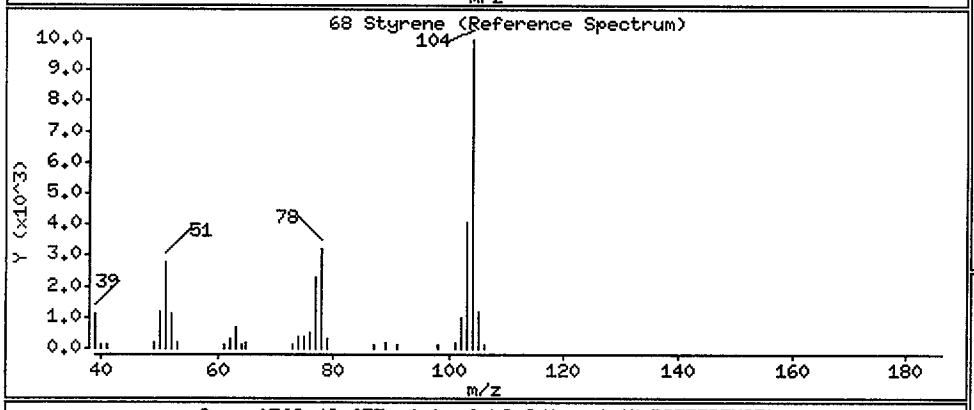
Column diameter: 0.18

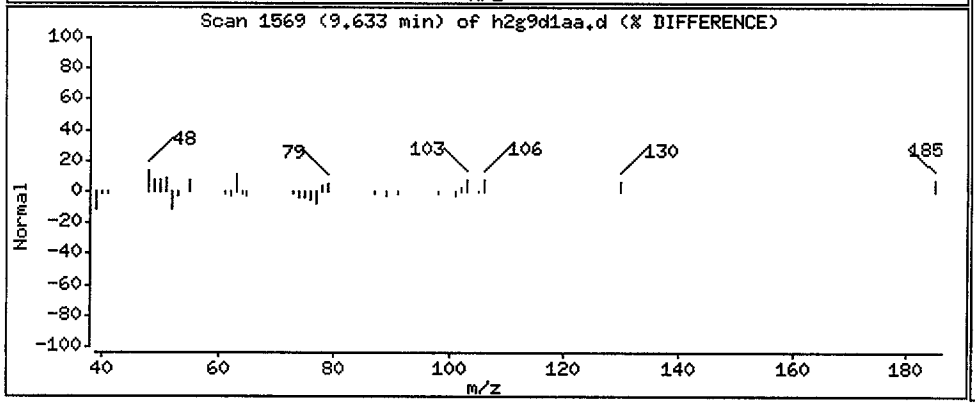
68 Styrene

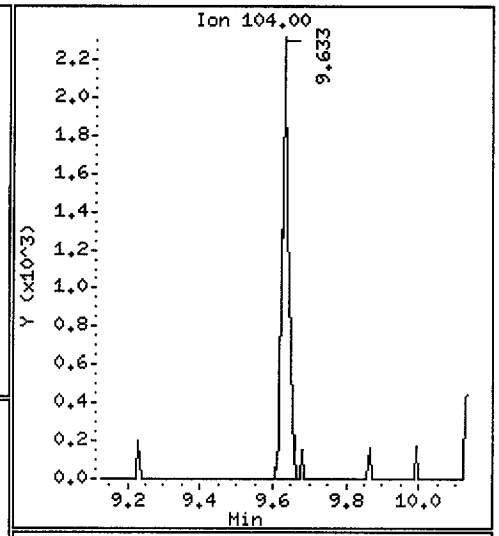
Concentration: 0.0015659 ug

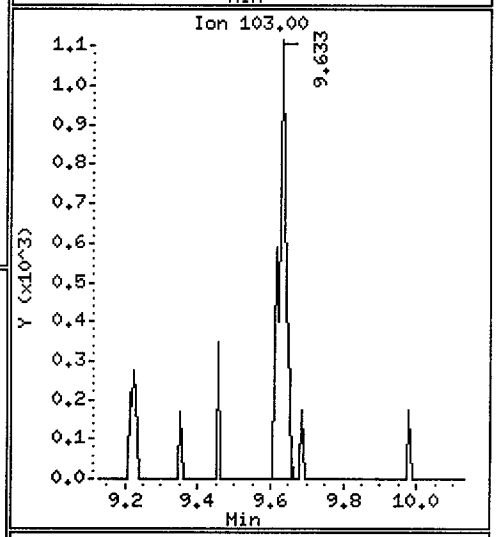


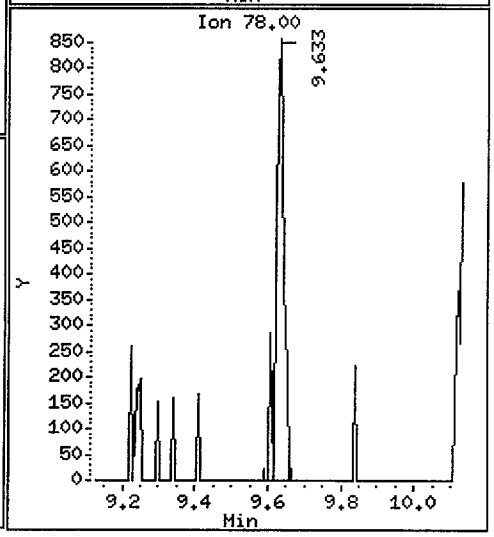












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

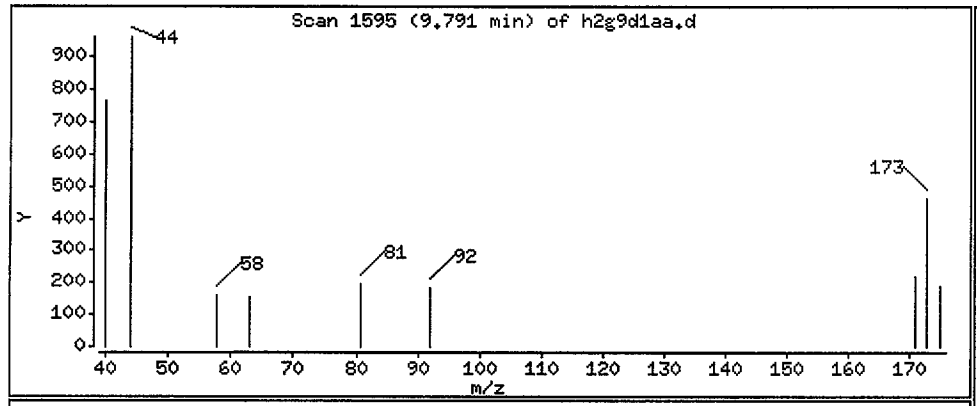
Operator: 22980

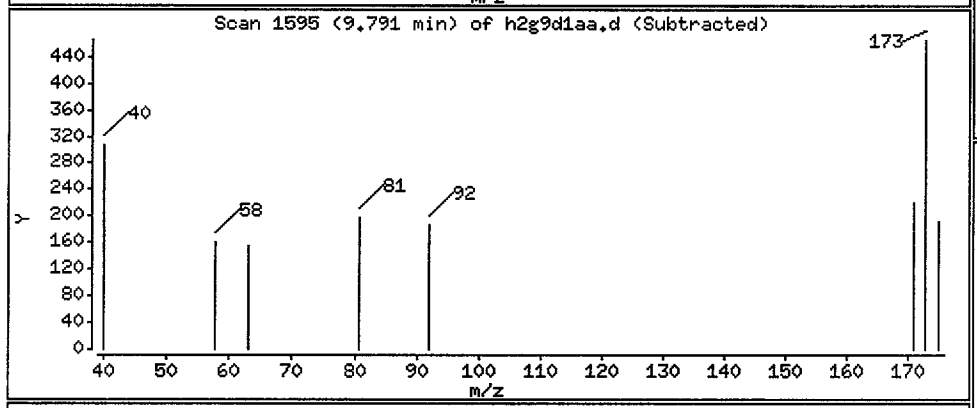
Column phase: J+W 624

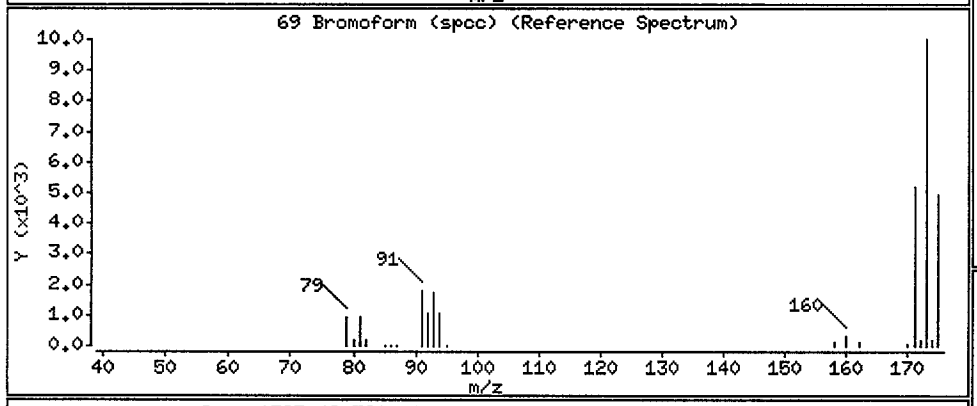
Column diameter: 0.18

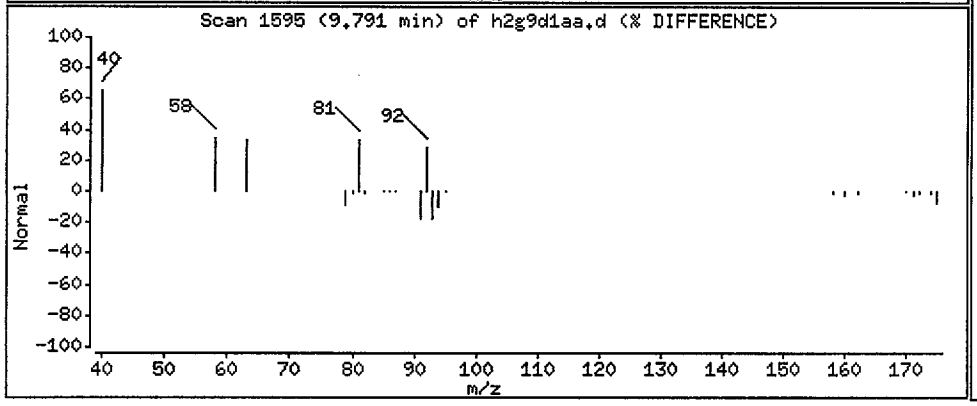
69 Bromoform (spcc)

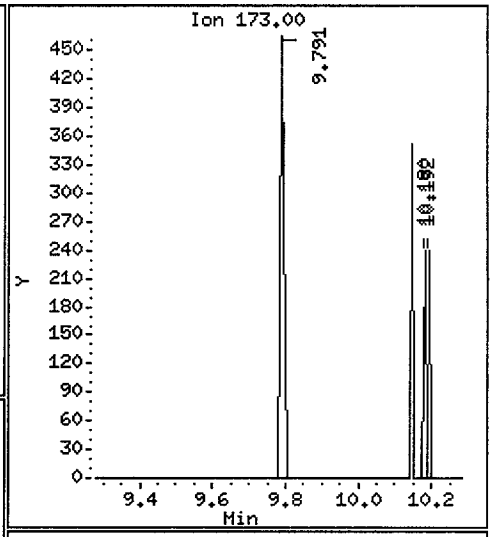
Concentration: 0.023518 ug

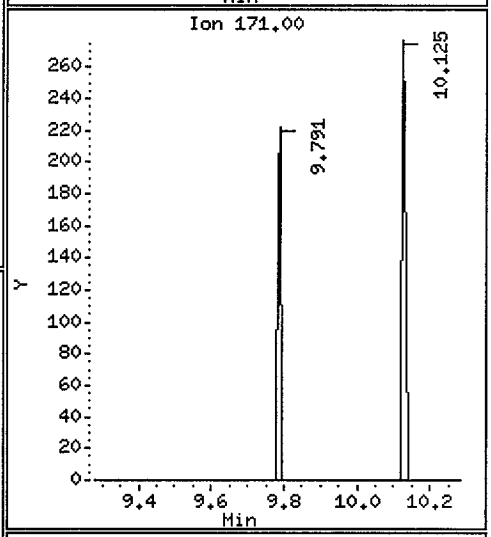


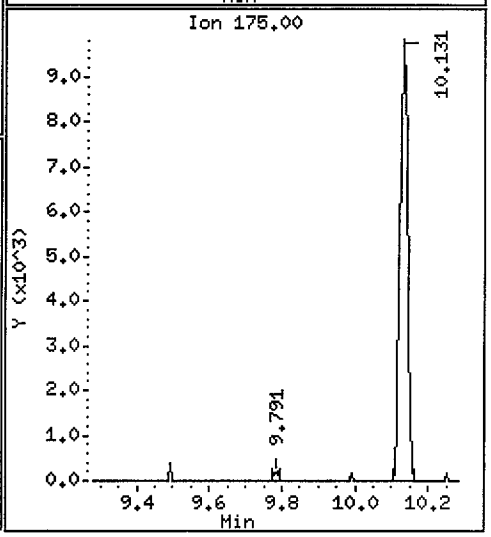












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

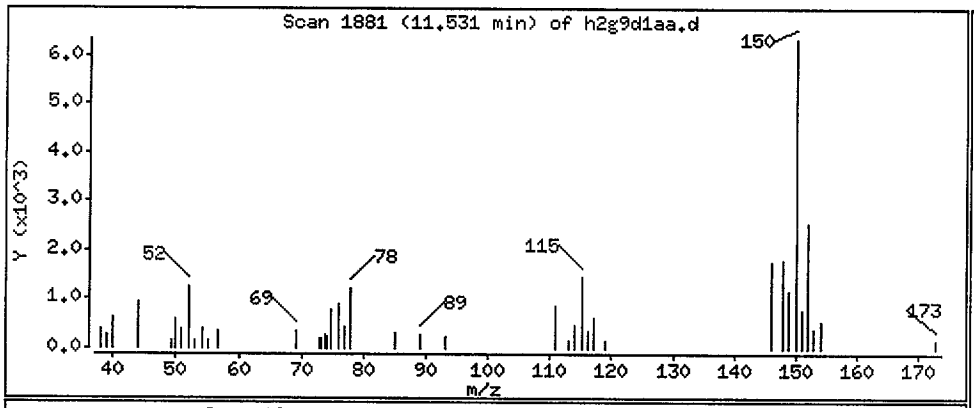
Operator: 22980

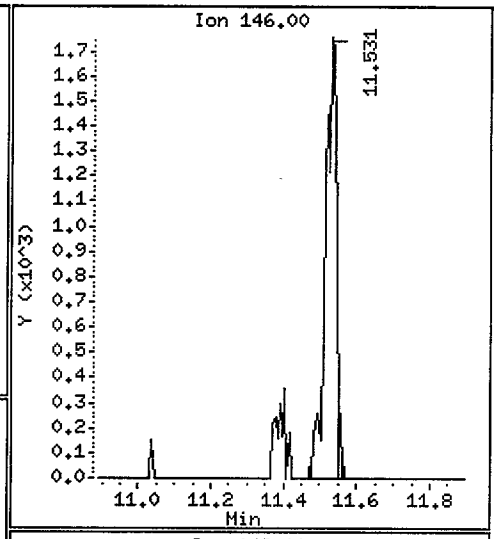
Column phase: J+W 624

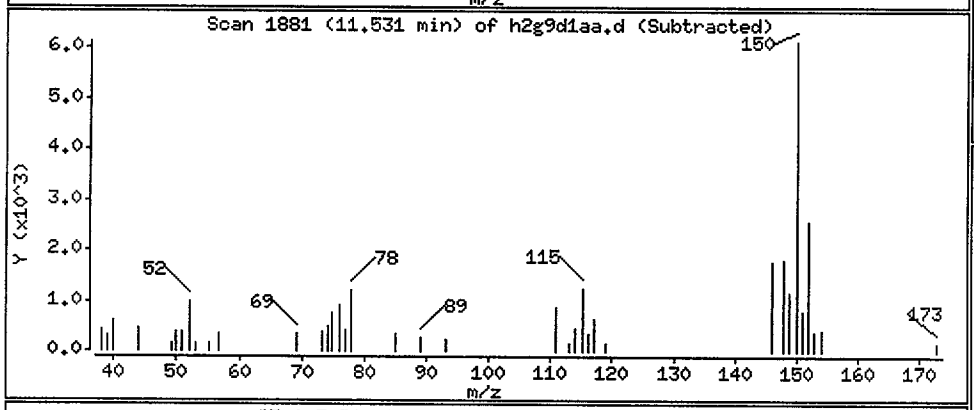
Column diameter: 0.18

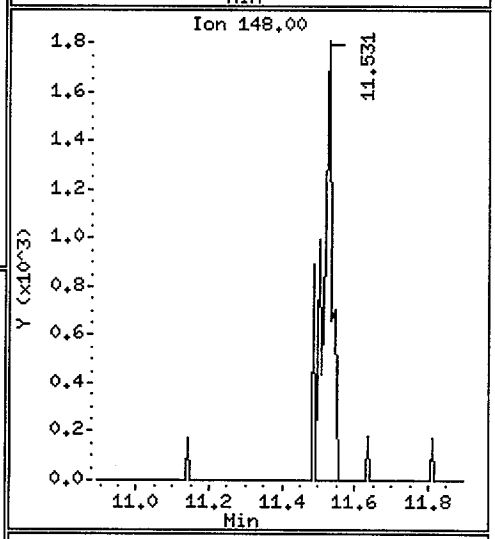
83 1,3-Dichlorobenzene

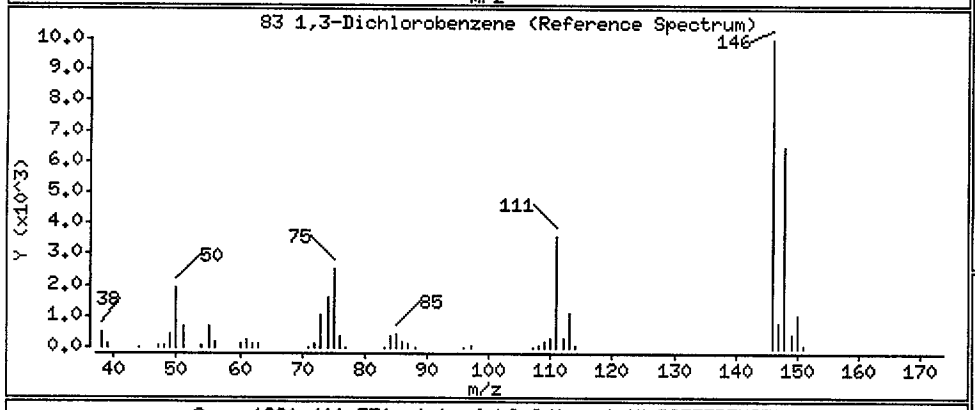
Concentration: 0.0024358 ug

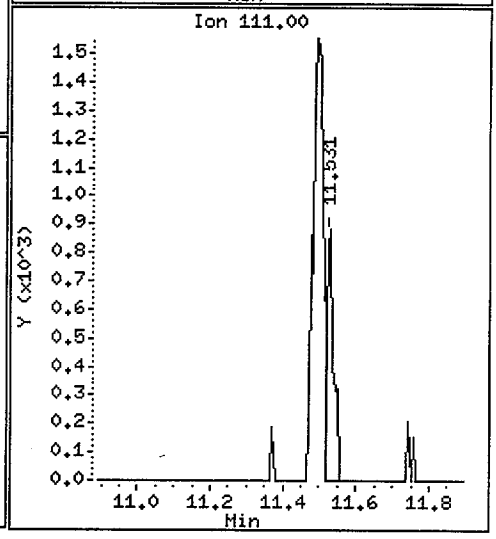


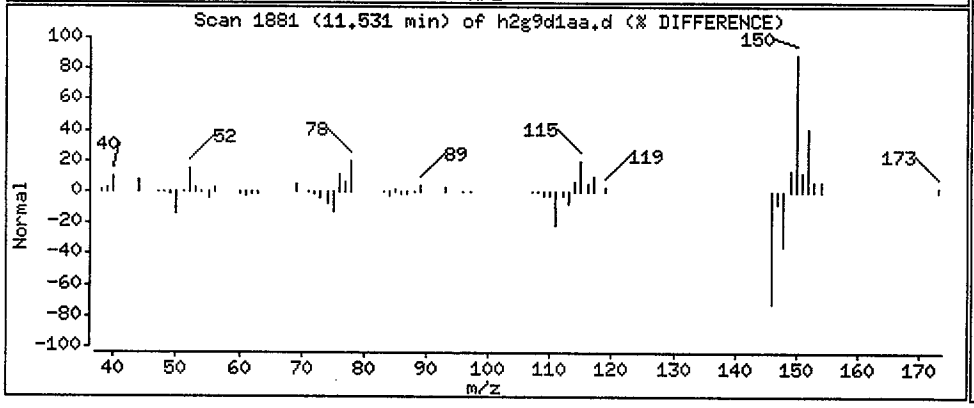












Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9D1AA,1,0,,

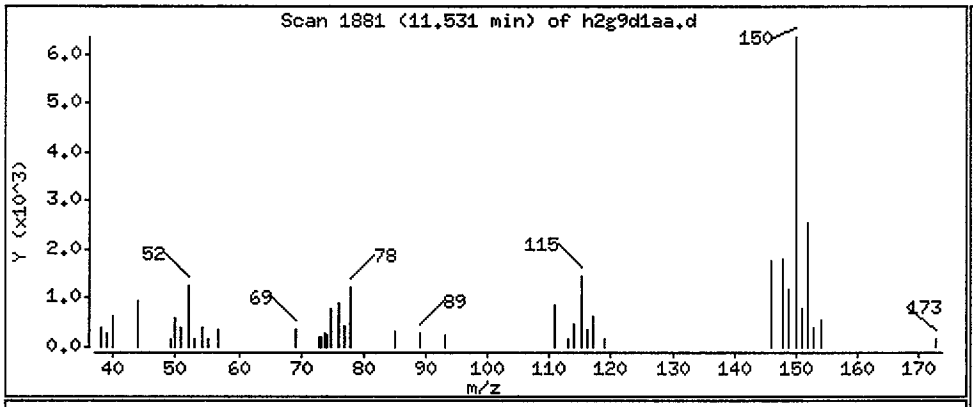
Operator: 22980

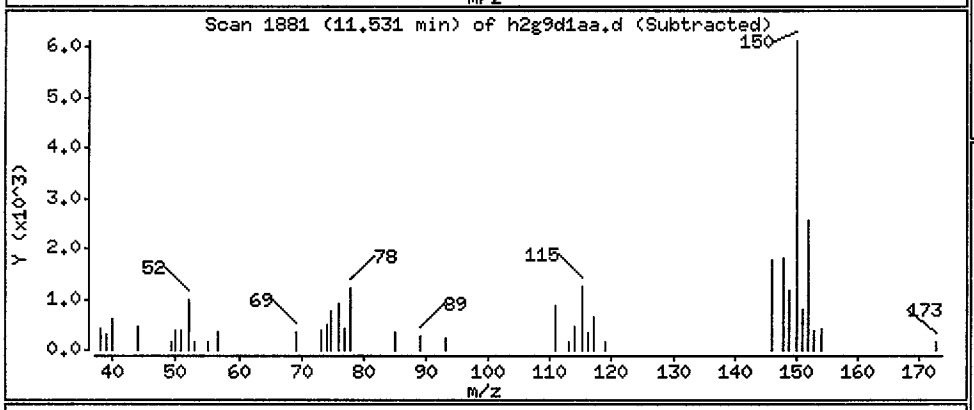
Column phase: J+W 624

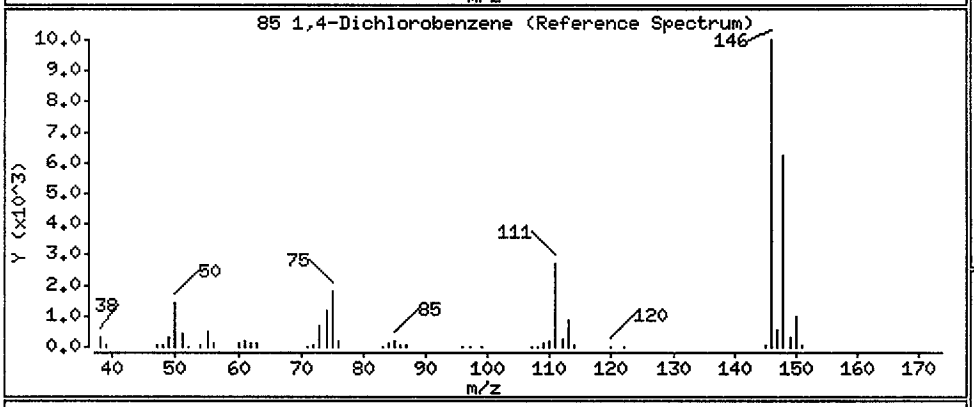
Column diameter: 0.18

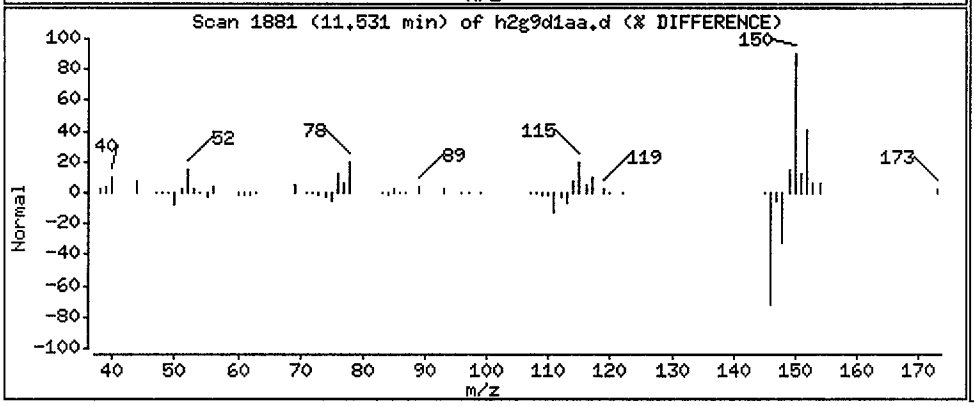
85 1,4-Dichlorobenzene

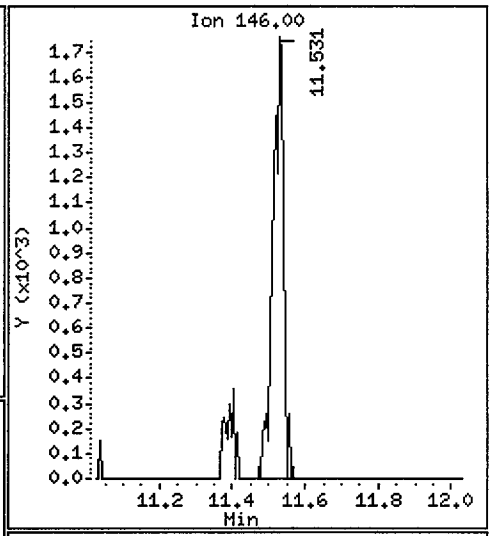
Concentration: 0.0026186 ug

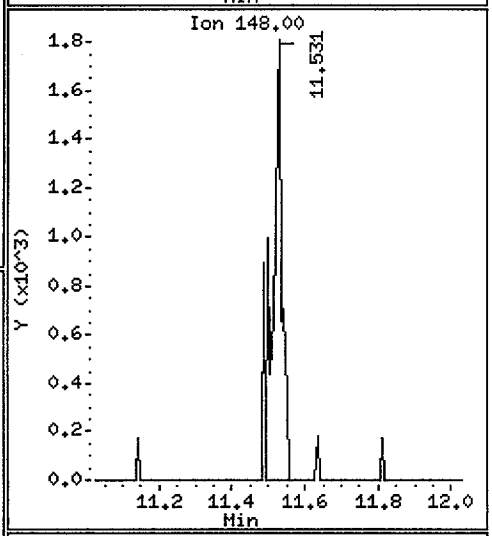


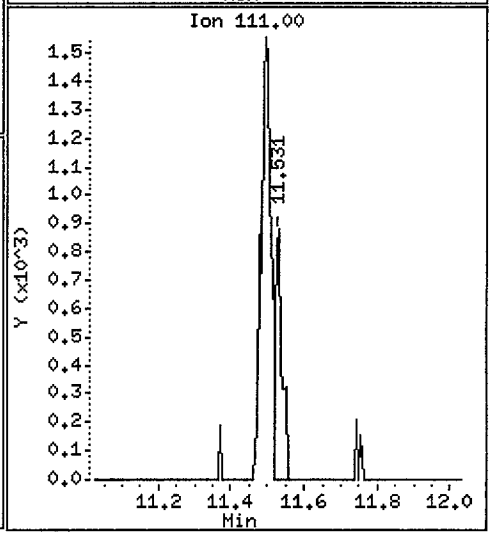












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Report Date: 14-Apr-2006 16:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
Lab Smp Id: H2G9D1AA Client Smp ID: G-2913-R1-VOST PAIR
Inj Date : 07-APR-2006 17:31
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9D1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.678	624347	10.000
* 2 Chlorobenzene-d5	8.939	1075422	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Ethylene oxide					CAS #: 75-21-8		
0.915	9852294	157.801575	3.9450	5	NIST05.l	74	1
Propane, 1-isocyanato-2-methyl-					CAS #: 1873-29-6		
9.316	220979	2.05481197	0.051370	62	NIST05.l	3441	2

A.R/CO2

UNK

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

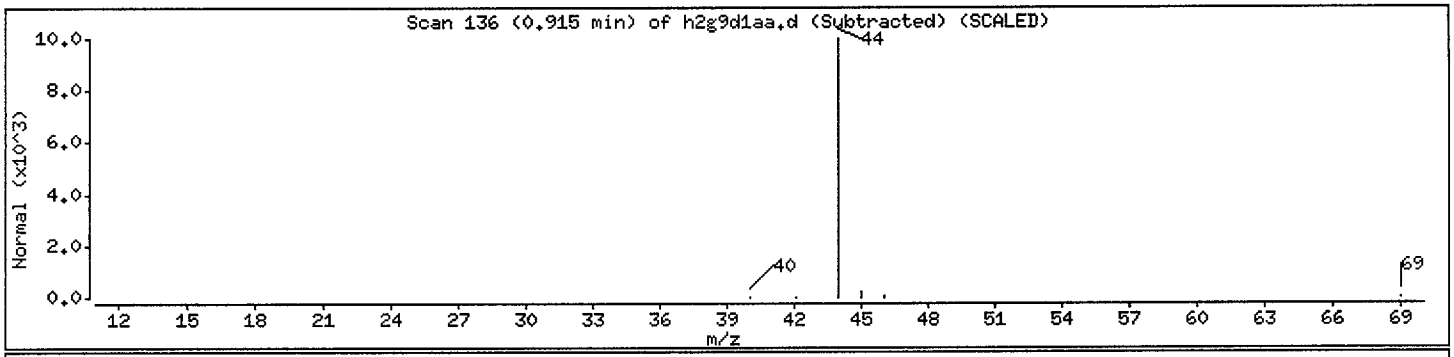
Sample Info: H2G9D1AA,1,0,,

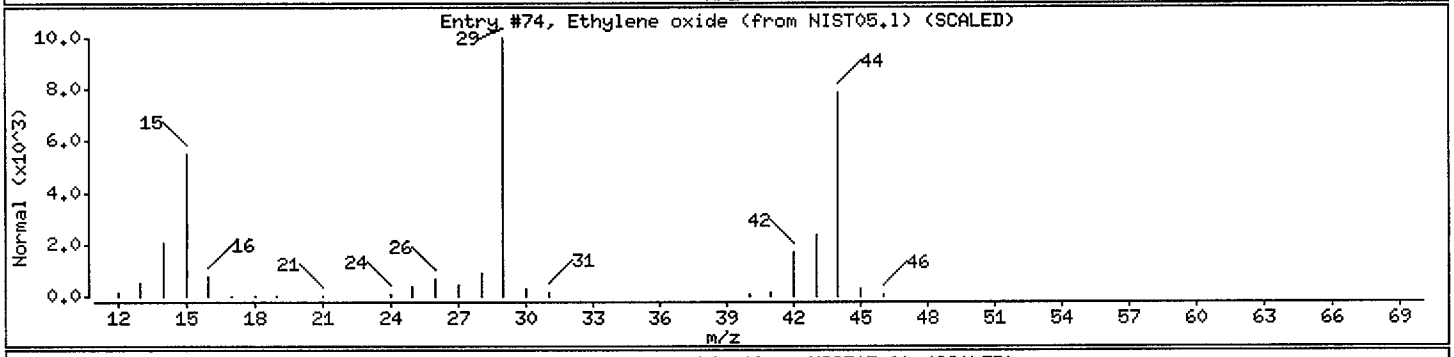
Operator: 22980

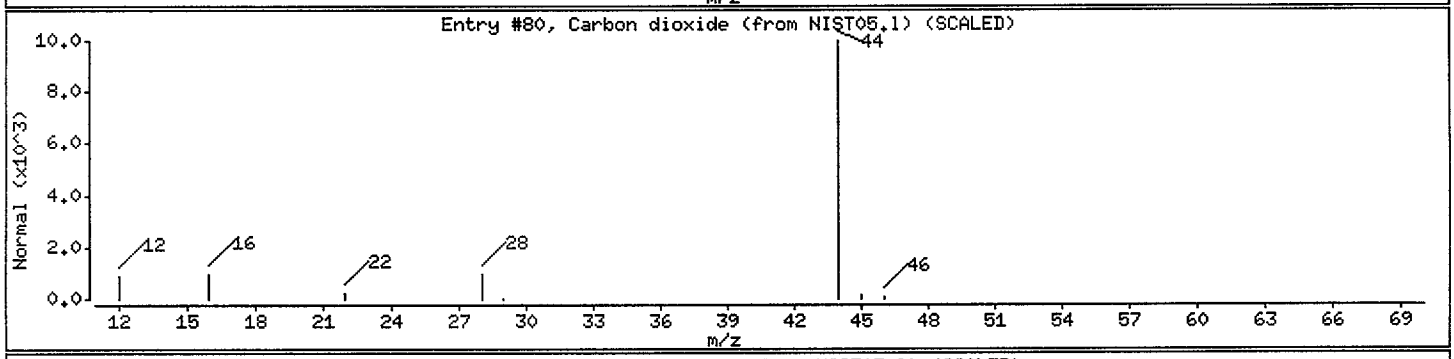
Column phase: J+W 624

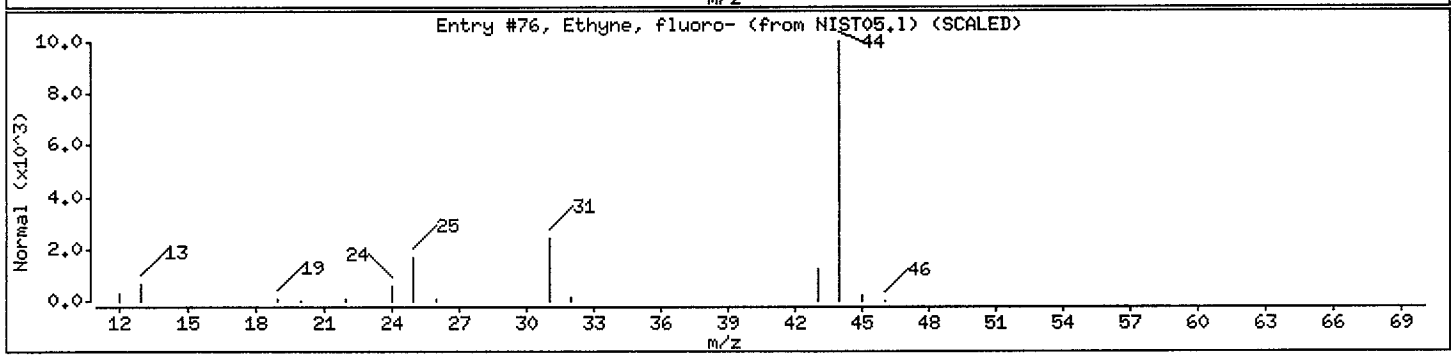
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethylene oxide	75-21-8	NIST05.1	74	5	C2H4O	44
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethyne, fluoro-	2713-09-9	NIST05.1	76	3	C2HF	44









Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

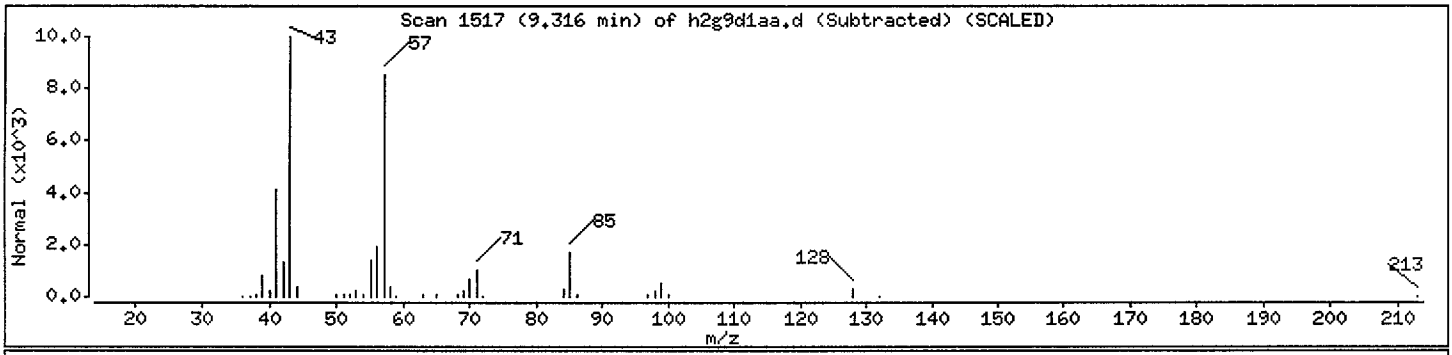
Sample Info: H2G9D1AA,1,0,,

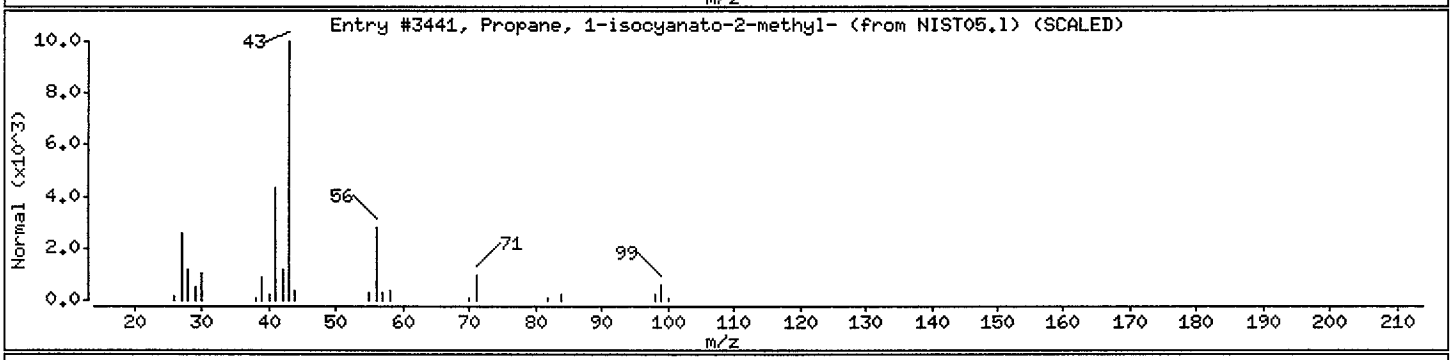
Operator: 22980

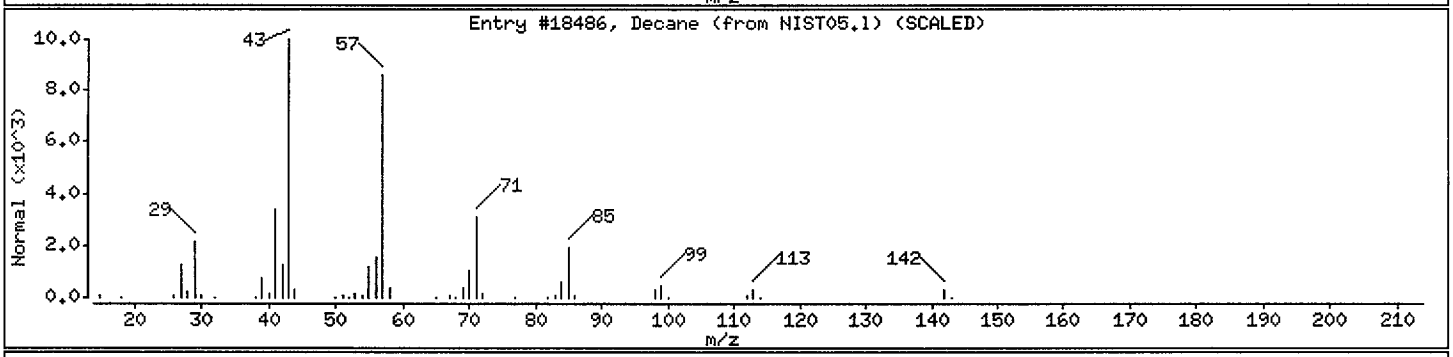
Column phase: J+W 624

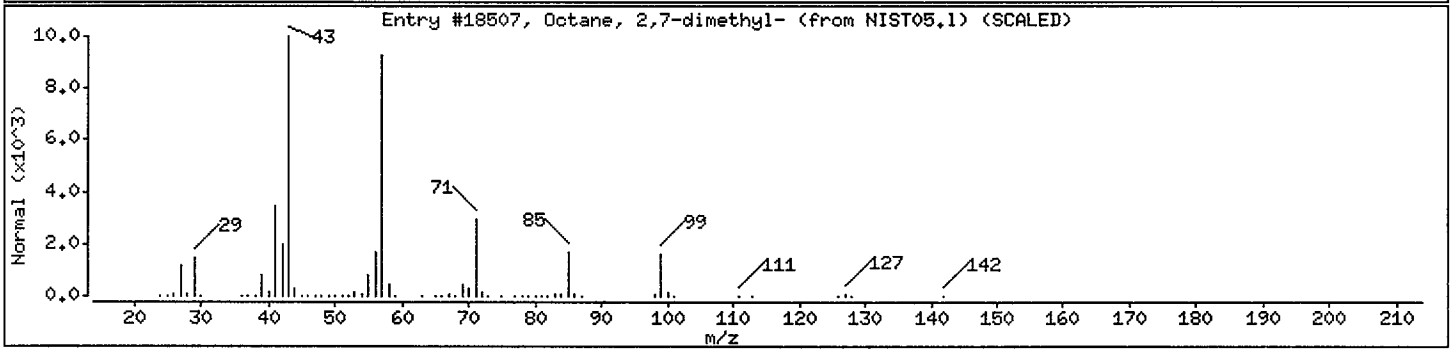
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1-isocyanato-2-methyl-	1873-29-6	NIST05.1	3441	62	C5H9NO	99
Decane	124-18-5	NIST05.1	18486	56	C10H22	142
Octane, 2,7-dimethyl-	1072-16-8	NIST05.1	18507	53	C10H22	142









STL Knoxville - ACS

Client Sample ID: G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-007 **Work Order #...:** H2G9F1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.0079 J**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0017 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.031**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.050**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	**0.0029 J**	**0.010**	**ug**	**0.0025**
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-007 **Work Order #...:** H2G9F1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	**0.0049 J**	**0.010**	**ug**	**0.0013**
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.11**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.011 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0059 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.028**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.032**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	**0.031 J**	**0.050**	**ug**	**0.0049**
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.015 J**	**0.020**	**ug**	**0.0034**
o-Xylene	**0.0036 J**	**0.010**	**ug**	**0.0017**
Xylenes (total)	**0.019 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	75	(57 - 127)
Bromofluorobenzene	65	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-007 **Work Order #:** H2G9F1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.078 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Report Date: 18-Apr-2006 11:13

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Lab Smp Id: H2G9F1AA
Inj Date : 07-APR-2006 12:59
Operator : 22980
Smp Info : H2G9F1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 11:12 tajh
Cal Date : 15-FEB-2006 14:58
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: qmidhp01

Client Smp ID: G-2914-R1-VOST PAIR
Inst ID: mx.i
Quant Type: ISTD
Cal File: icxb151.d
Compound Sublist: focus.sub

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1182720	10.0000	
* 2 Chlorobenzene-d5	119	7.584	7.582	(1.000)	235521	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.747	10.746	(1.000)	255608	10.0000	
$ 4 Dibromofluoromethane	113	4.268	4.273	(0.880)	148817	7.40062	0.18502
$ 5 1,2-Dichloroethane-d4	65	4.554	4.553	(0.939)	120520	7.68895	0.19222
$ 6 Toluene-d8	98	6.251	6.250	(0.824)	867682	7.52468	0.18812
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	197117	6.50412	0.16260
M 8 1,2-Dichloroethene (total)	96				3175	0.11725	0.0029313
M 9 Xylene (total)	106				41875	0.75391	0.018848
10 Dichlorodifluoromethane	85	1.123	1.128	(0.231)	6394	0.17078	0.0042695
17 Trichlorofluoromethane	101	1.883	1.888	(0.388)	58628	1.24641	0.031160
21 Acetone	43	2.382	2.381	(0.491)	31075	18.5507	0.46377
23 Carbon Disulfide	76	2.498	2.497	(0.515)	6188	0.06865	0.0017163
26 Methylene Chloride	84	2.747	2.746	(0.566)	83914	4.58905	0.11473
33 *Vinyl Acetate	86	3.252	3.421	(0.670)	863	0.64145	~~0.016036~~
34 2,2-Dichloropropane	77	3.860	3.853	(0.796)	6495	0.12511	~~0.0031277~~
35 cis 1,2-Dichloroethene	96	3.860	3.859	(0.796)	3175	0.11725	0.0029313
36 2-Butanone	43	3.867	3.871	(0.797)	17613	6.74077	~~0.16852~~
38 *THF	42	4.104	4.109	(0.846)	1839	1.14853	0.028713
39 Chloroform (ccc)	83	4.134	4.139	(0.852)	89753	1.99663	0.049916

040706

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Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Report Date: 18-Apr-2006 11:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
42 1,1-Dichloropropene	75	4.852	4.437	(1.000)	91309	1.94993	~~0.048748~~
43 Benzene	78	4.609	4.607	(0.950)	6817	0.05691	0.0014228
44 1,2-Dichloroethane	62	4.852	4.620	(1.000)	20889	1.03633	~~0.025908~~
45 Trichloroethene	130	5.175	5.173	(1.066)	40879	1.27189	0.031797
51 cis-1,3-Dichloropropene	75	6.312	6.007	(1.301)	1272	0.04328	~~0.0010820~~
52 4-Methyl-2-pentanone	43	6.251	6.147	(1.288)	6665	1.06509	~~0.026627~~
53 Toluene (ccc)	91	6.312	6.311	(0.832)	151926	1.10124	0.027531
54 trans-1,3-Dichloropropene	75	6.312	6.506	(0.832)	1272	0.05261	~~0.0013152~~
56 1,1,2-Trichloroethane	97	6.714	6.670	(0.885)	2361	0.21665	~~0.0054163~~
57 Tetrachloroethene	164	6.817	6.816	(0.899)	7008	0.23642	0.0059104
59 2-Hexanone	43	7.079	6.907	(0.933)	2331	0.50563	~~0.012641~~
62 Chlorobenzene (spcc)	112	7.608	7.607	(1.003)	88381	1.24798	0.031199
64 Ethylbenzene (ccc)	106	7.717	7.716	(1.018)	9521	0.19548	0.0048869
65 m&p-Xylene	106	7.833	7.838	(1.033)	34910	0.61158	0.015290
66 o-Xylene	106	8.247	8.251	(1.087)	6965	0.14233	0.0035583
68 Bromoform (spcc)	173	8.466	8.464	(1.116)	2053	0.31461	0.0078651
73 1,2,3-Trichloropropane	110	9.238	9.115	(0.860)	586	0.24558	~~0.0061394~~
77 1,3,5-Trimethylbenzene	105	9.372	9.511	(0.872)	3849	0.04051	~~0.0010128~~
80 1,2,4-Trimethylbenzene	105	10.090	10.125	(0.939)	99057	1.20115	~~0.030029~~
81 sec-Butylbenzene	105	10.090	10.435	(0.939)	98517	0.67621	~~0.016905~~
82 1,3-Dichlorobenzene	146	10.783	10.612	(1.003)	6612	0.15353	~~0.0038383~~
84 1,4-Dichlorobenzene	146	10.783	10.788	(1.003)	6612	0.16953	0.0042382
90 Napthalene	128	13.947	13.946	(1.298)	5008	0.45156	0.011289

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Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Report Date: 18-Apr-2006 11:13

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g9f1aa.d
Lab Smp Id: H2G9F1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-2914-R1-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1182720	2.92
2 Chlorobenzene-d5	214194	107097	428388	235521	9.96
3 1,4 Dichlorobenze	242601	121300	485202	255608	5.36

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.03
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.02
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

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.

Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Report Date: 18-Apr-2006 11:13

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G9F1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2914-R1-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

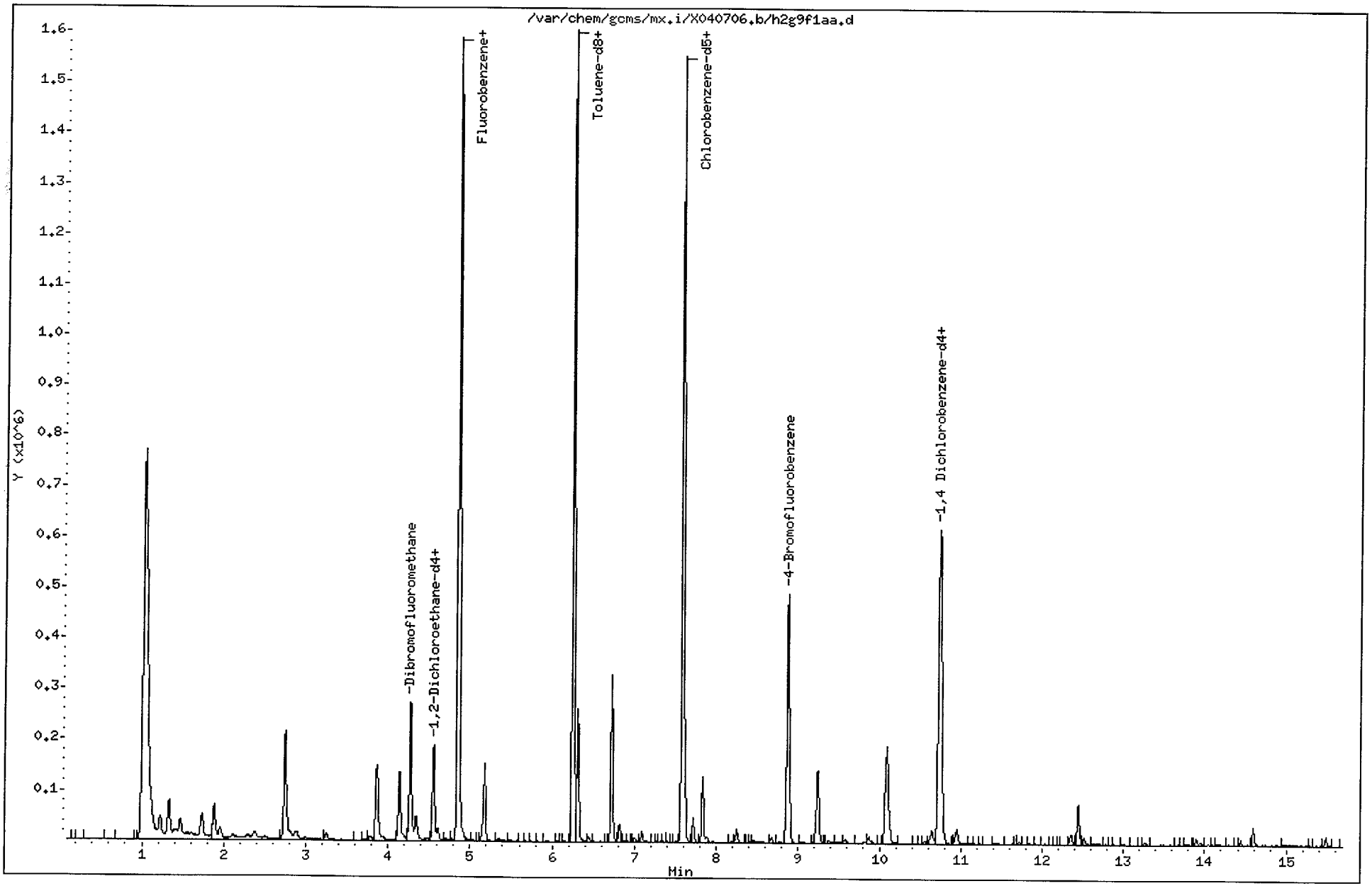
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18502	74.01	50-150
$ 5 1,2-Dichloroethane	0.25000	0.19222	76.89	50-150
$ 6 Toluene-d8	0.25000	0.18812	75.25	50-150
$ 7 4-Bromofluorobenze	0.25000	0.16260	65.04	50-150

Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Date : 07-APR-2006 12:59
Client ID: G-2914-R1-VOST PAIR
Sample Info: H2G9F1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

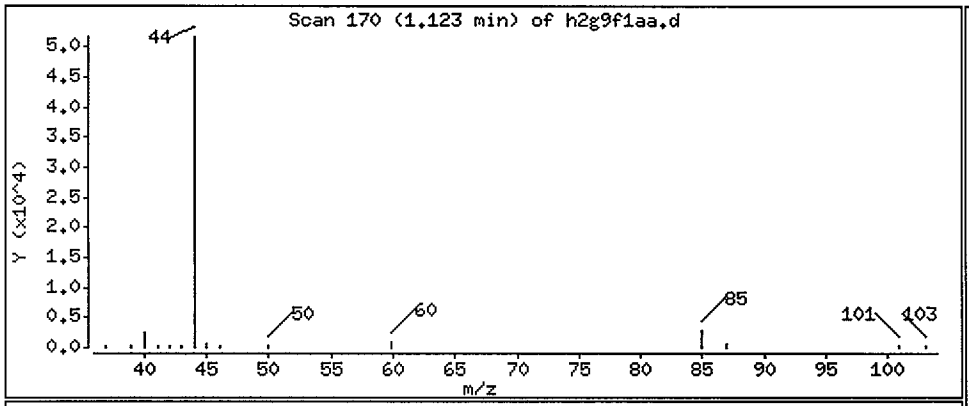
Operator: 22980

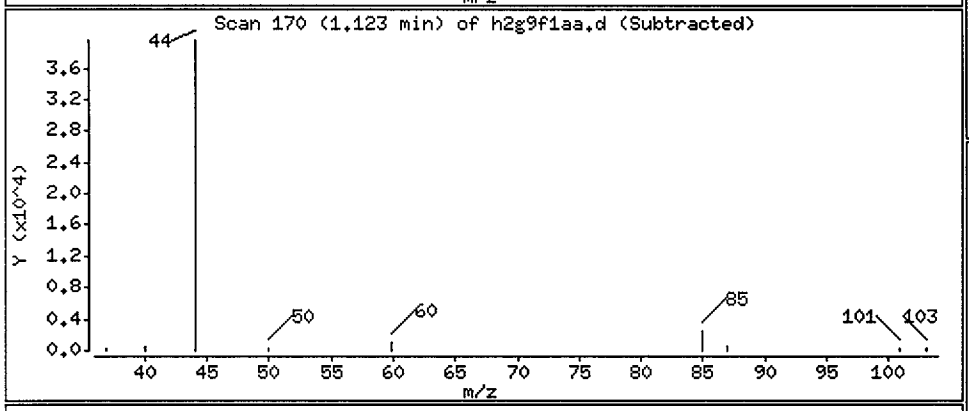
Column phase: J+W 624

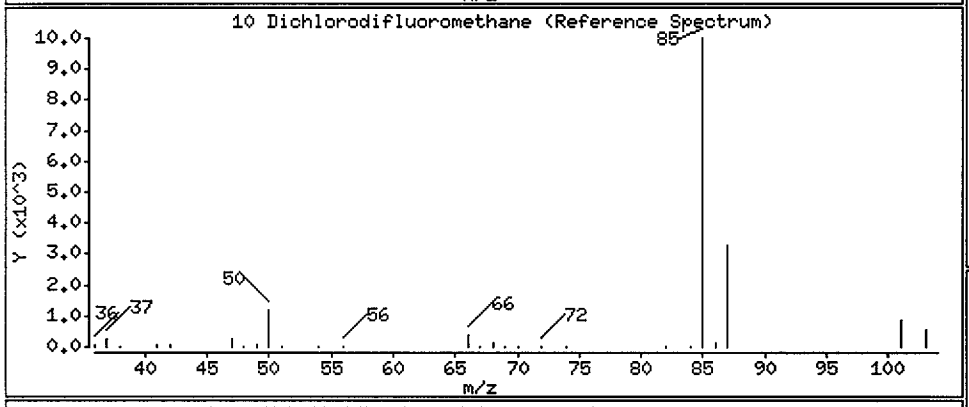
Column diameter: 0.18

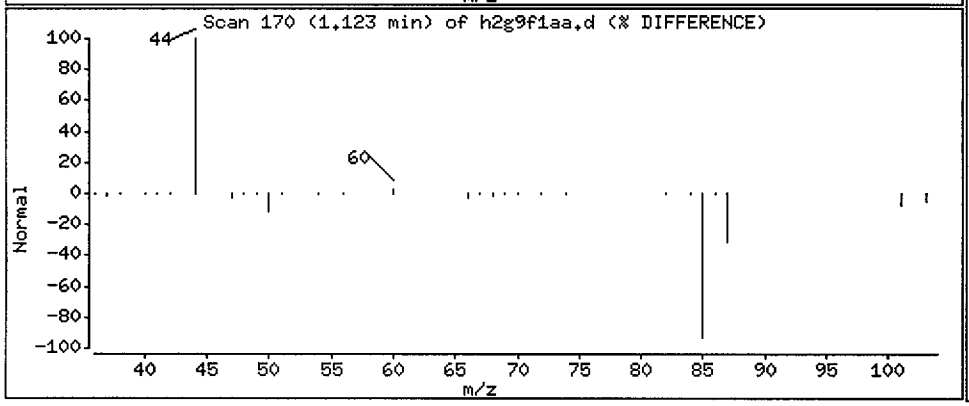
10 Dichlorodifluoromethane

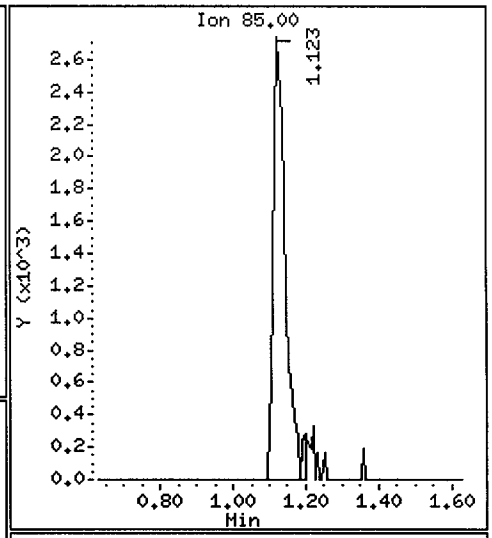
Concentration: 0.0042695 ug

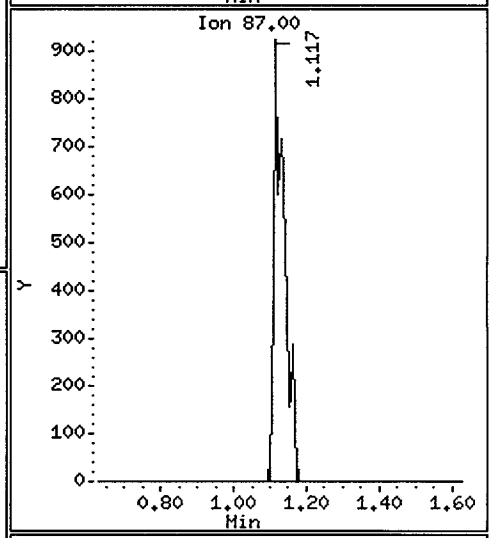


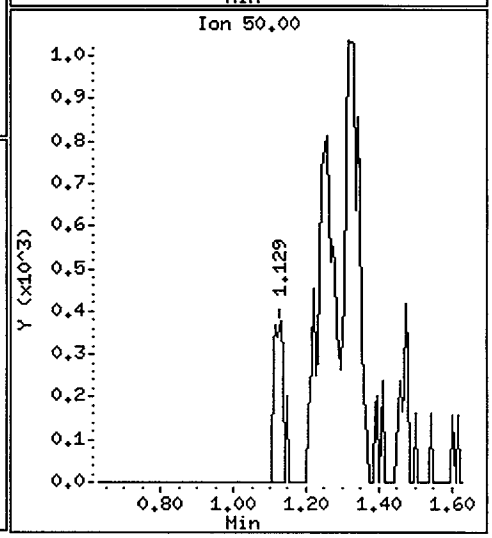












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

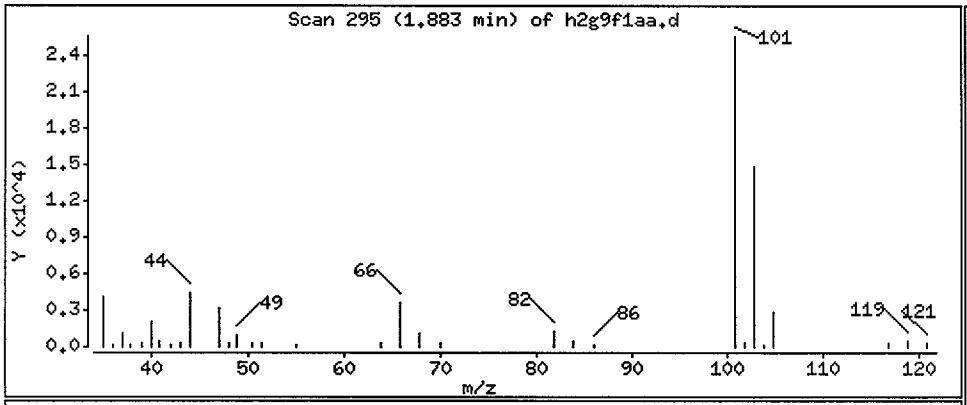
Operator: 22980

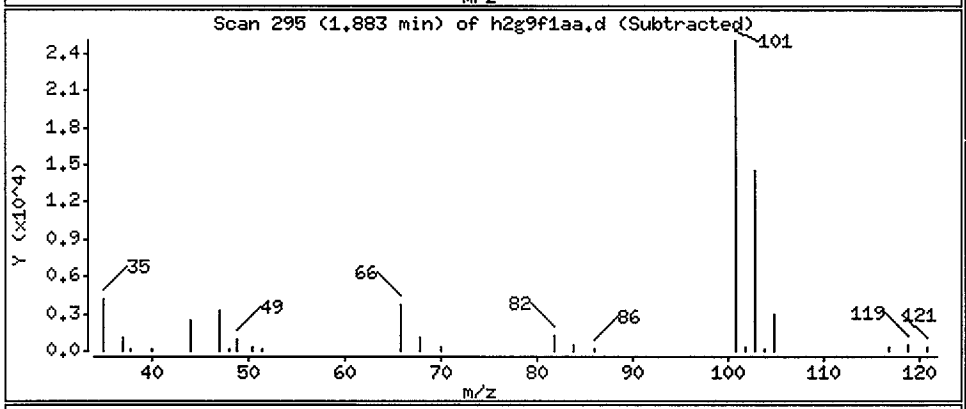
Column phase: J+W 624

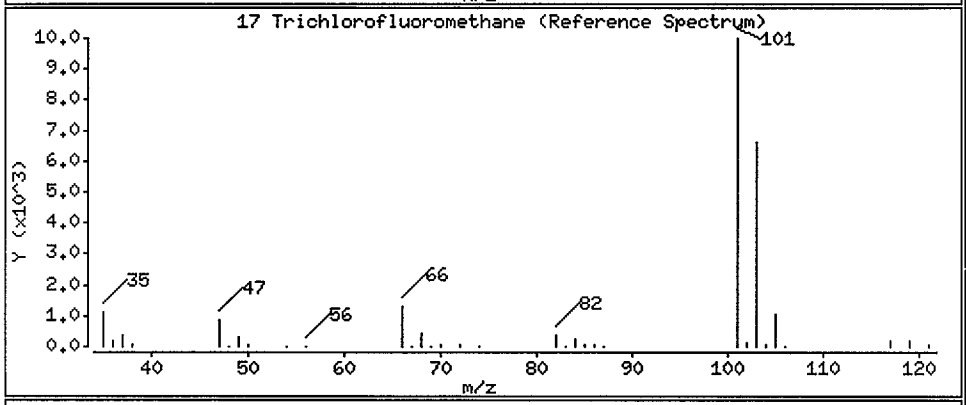
Column diameter: 0.18

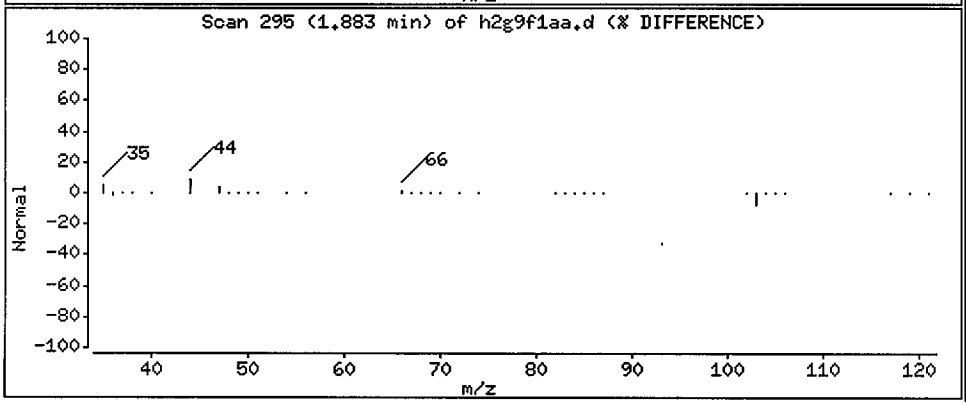
17 Trichlorofluoromethane

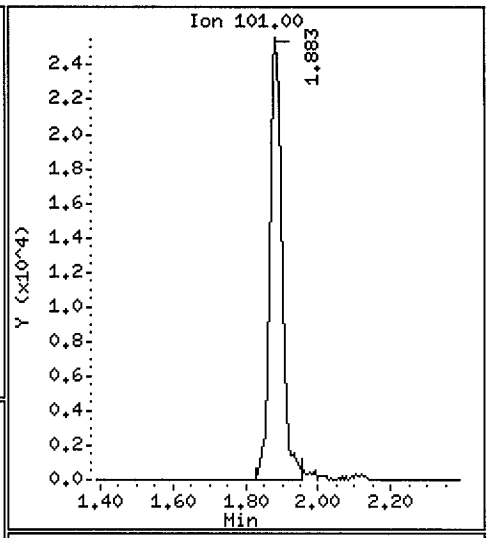
Concentration: 0.031160 ug

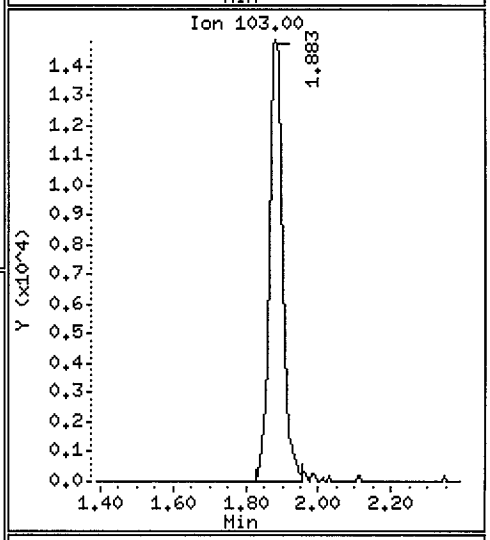


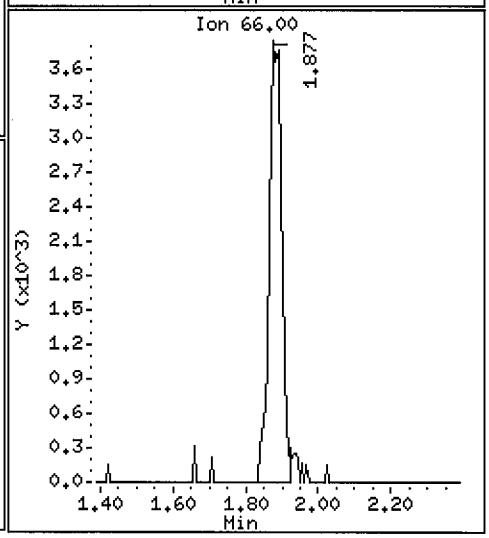












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

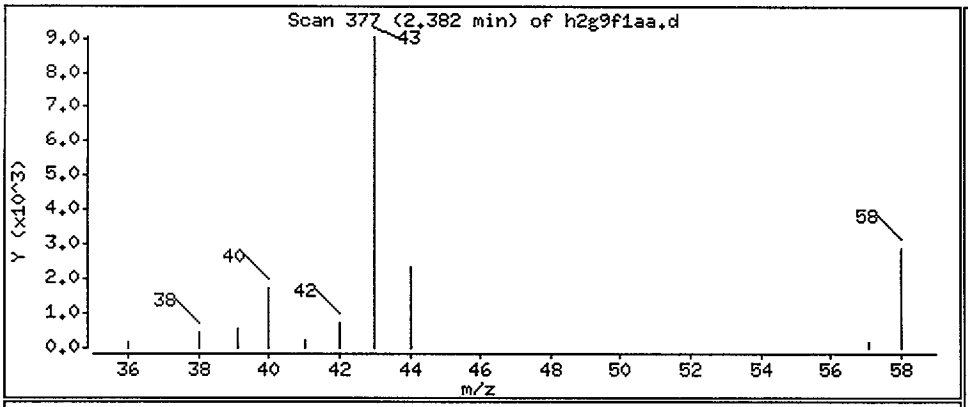
Operator: 22980

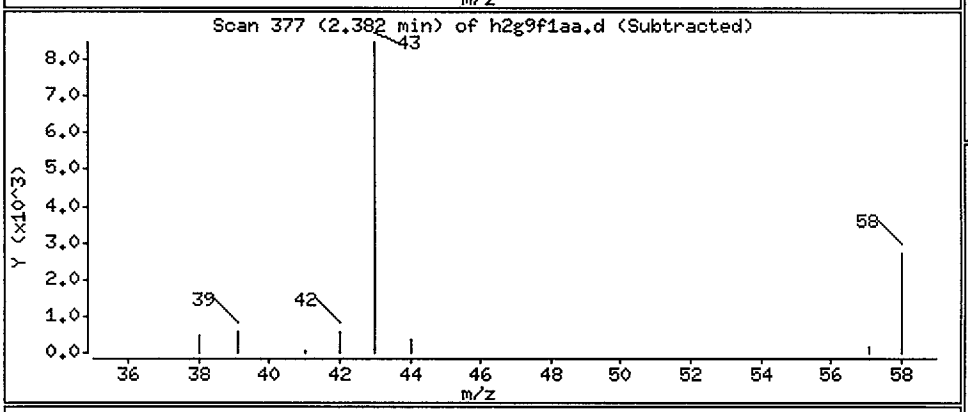
Column phase: J+W 624

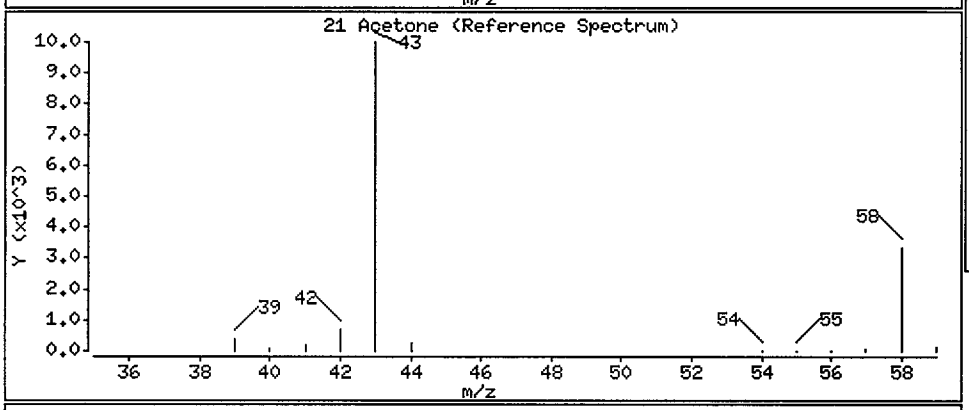
Column diameter: 0.18

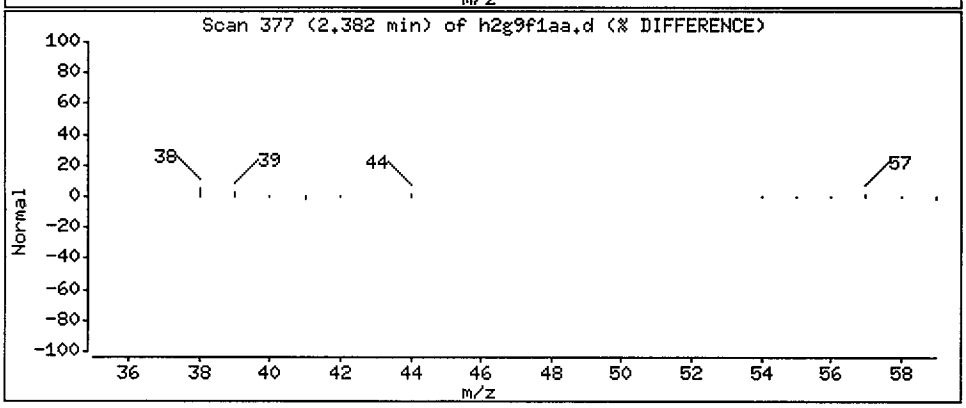
21 Acetone

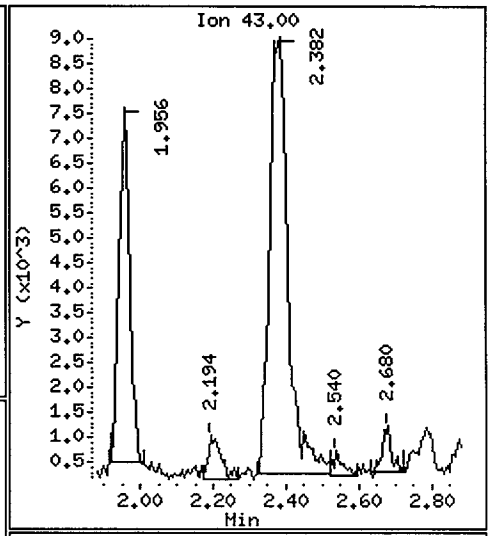
Concentration: 0.46377 ug

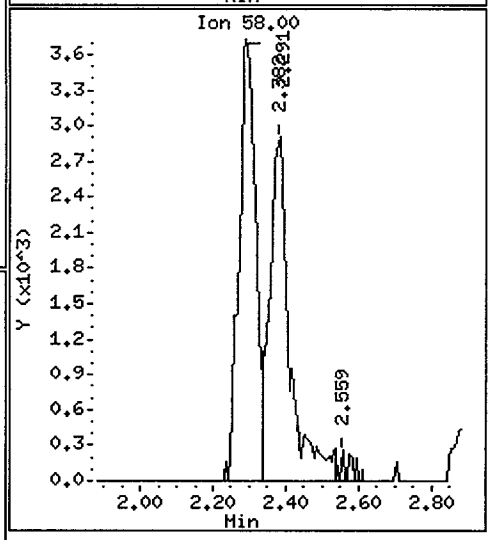












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

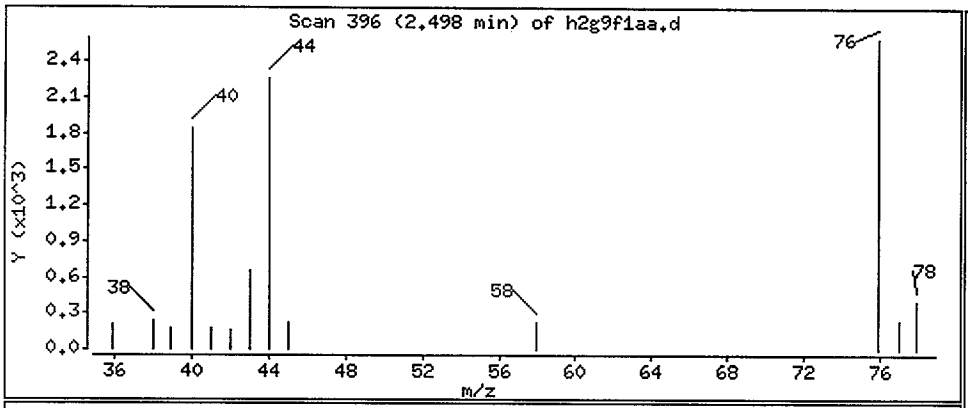
Operator: 22980

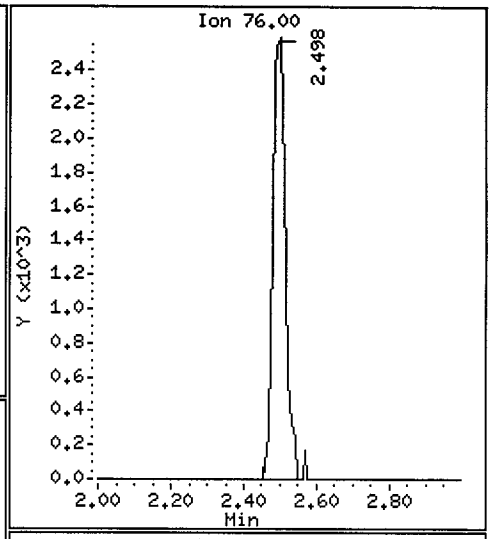
Column phase: J+W 624

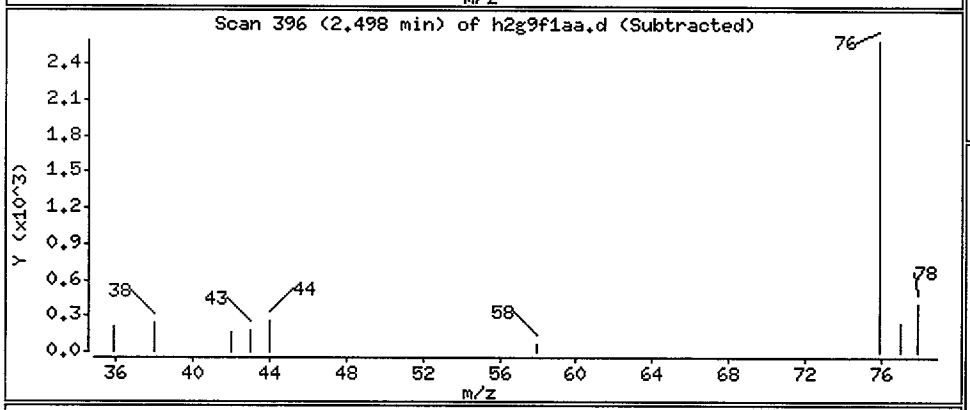
Column diameter: 0.18

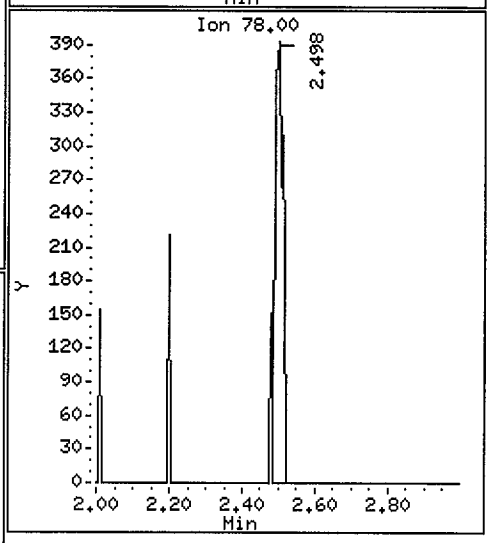
23 Carbon Disulfide

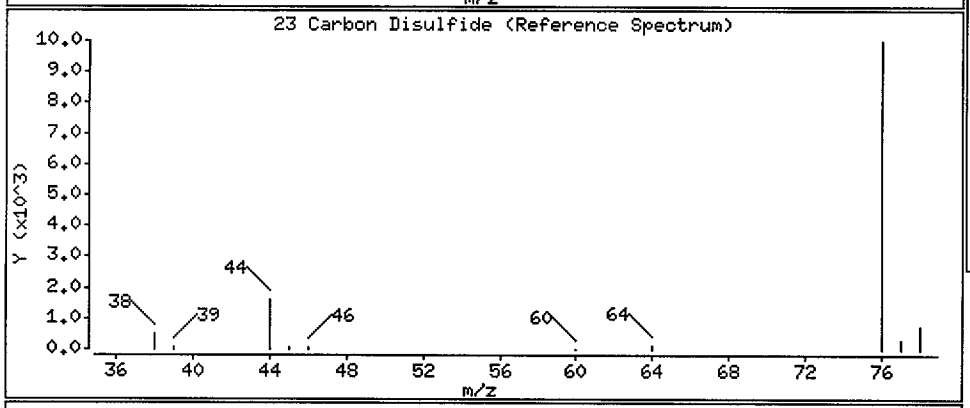
Concentration: 0.0017163 ug

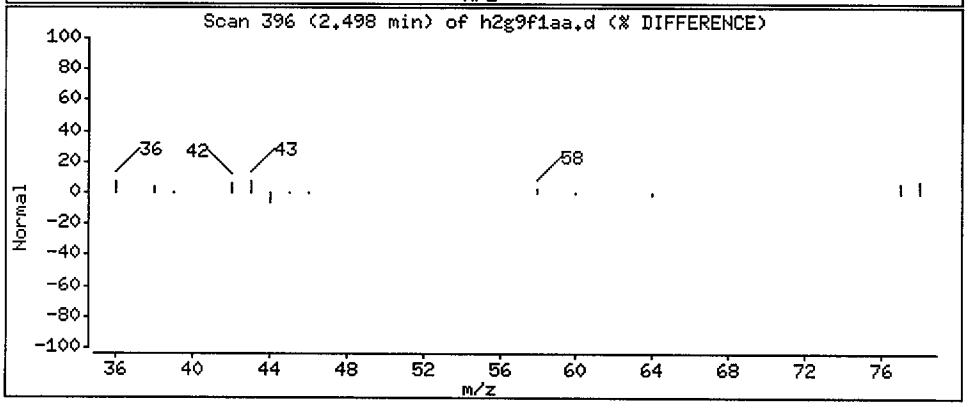












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

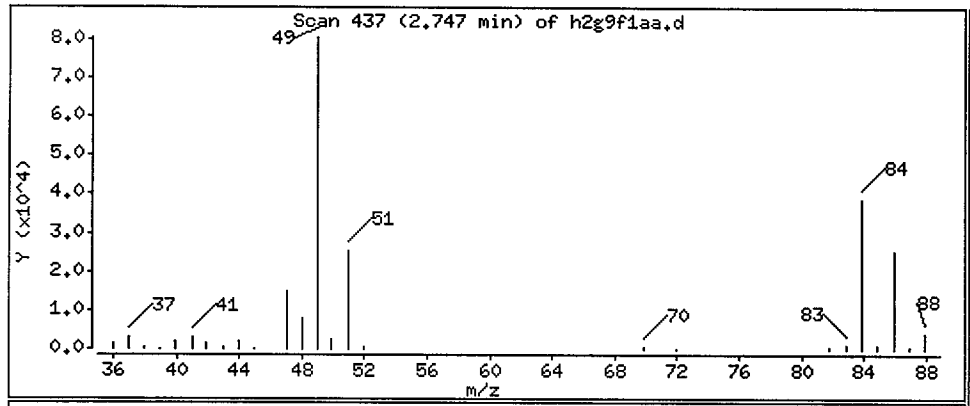
Operator: 22980

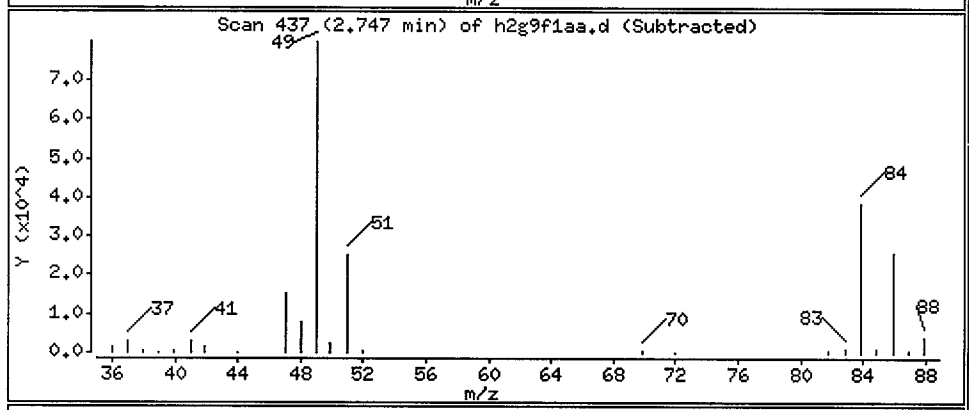
Column phase: J+W 624

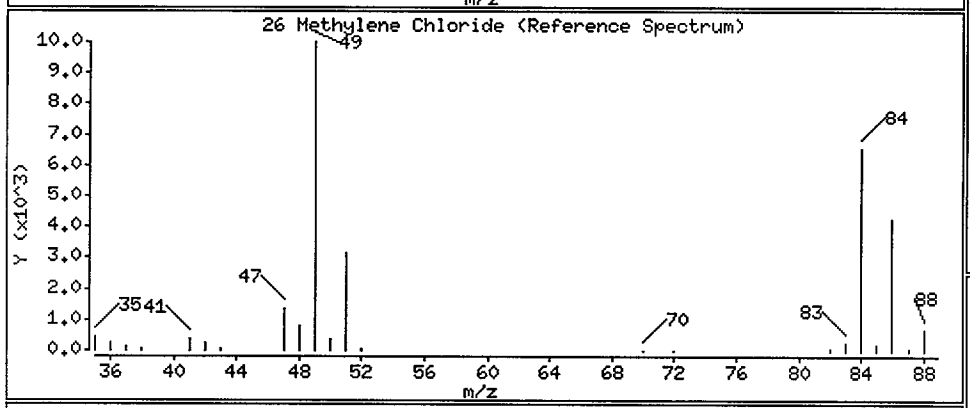
Column diameter: 0.18

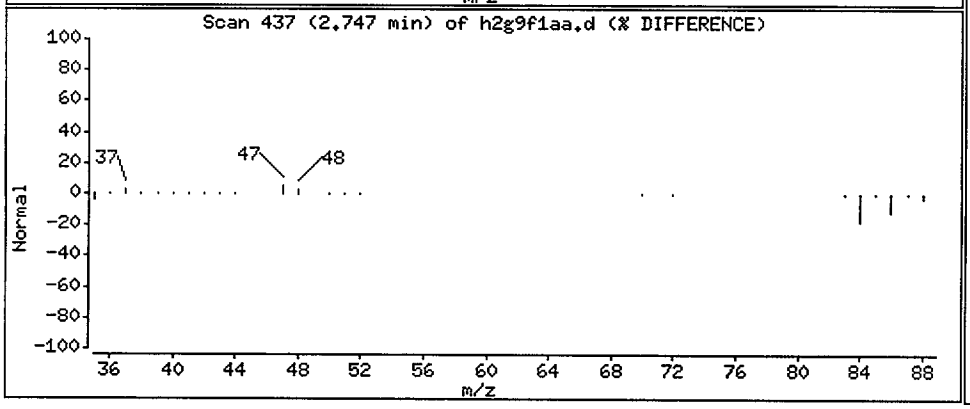
26 Methylene Chloride

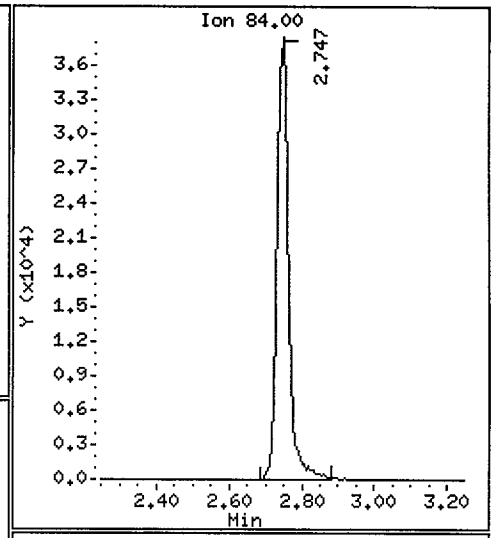
Concentration: 0.11473 ug

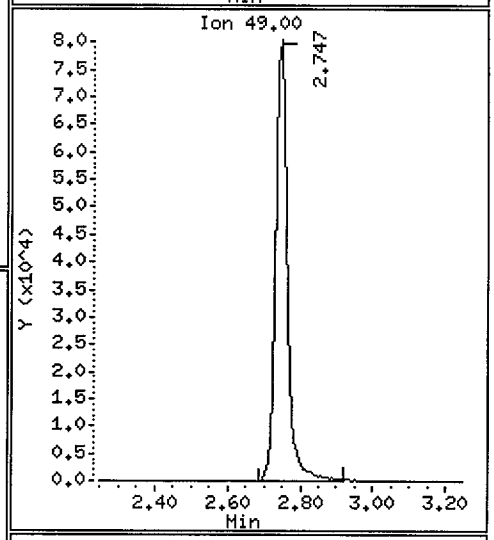


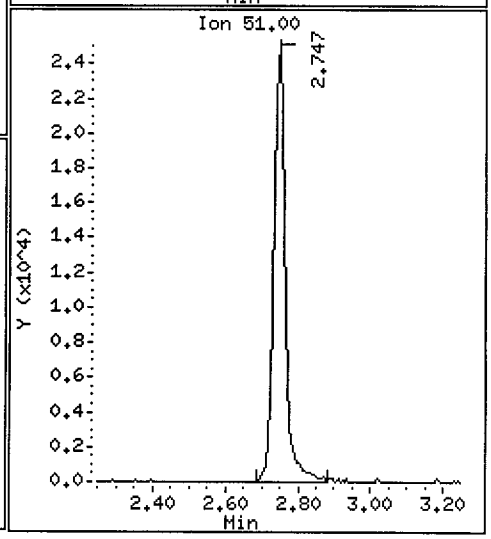












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

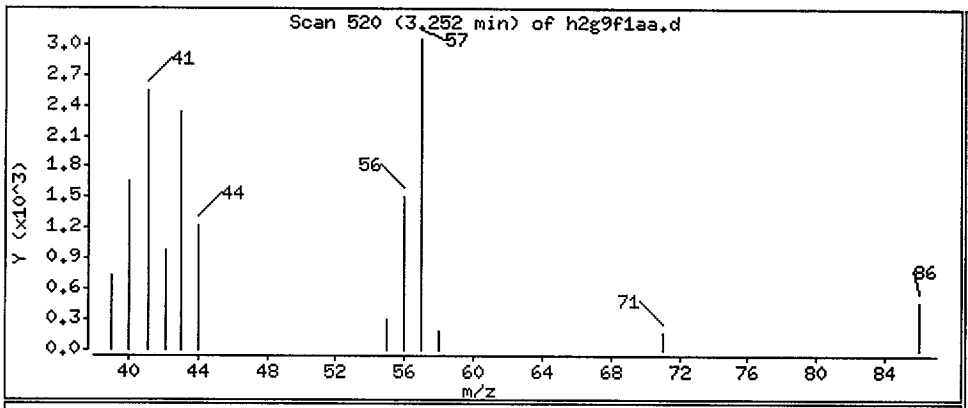
Operator: 22980

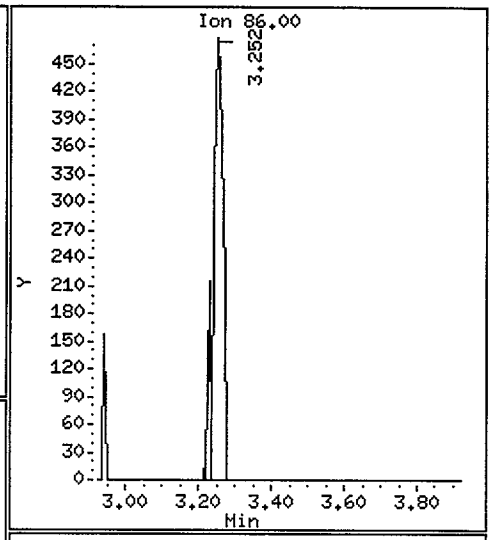
Column phase: J+W 624

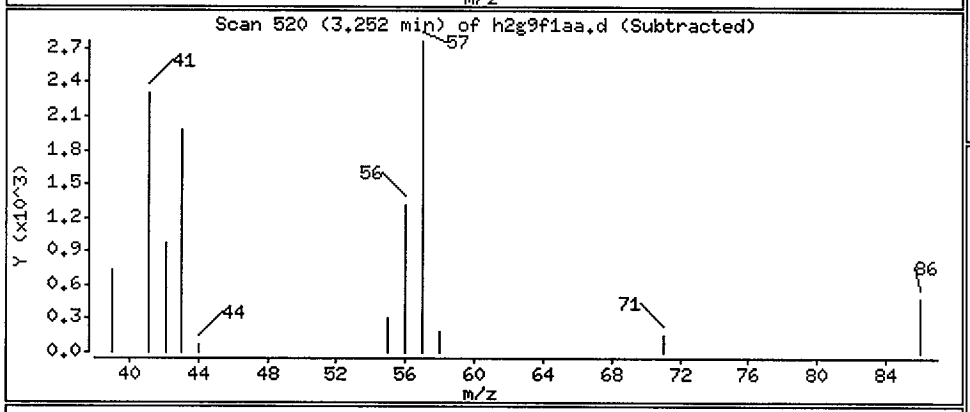
Column diameter: 0.18

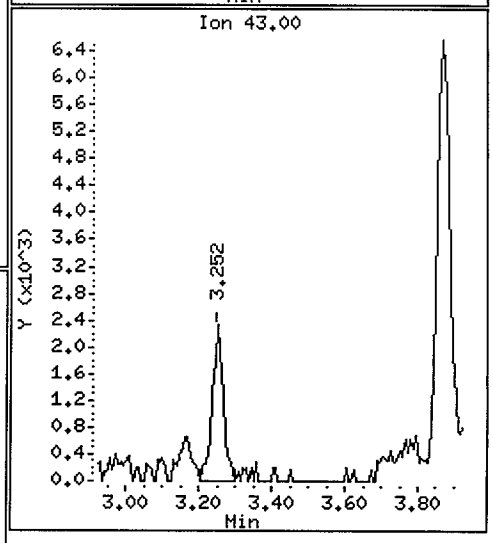
33 *Vinyl Acetate

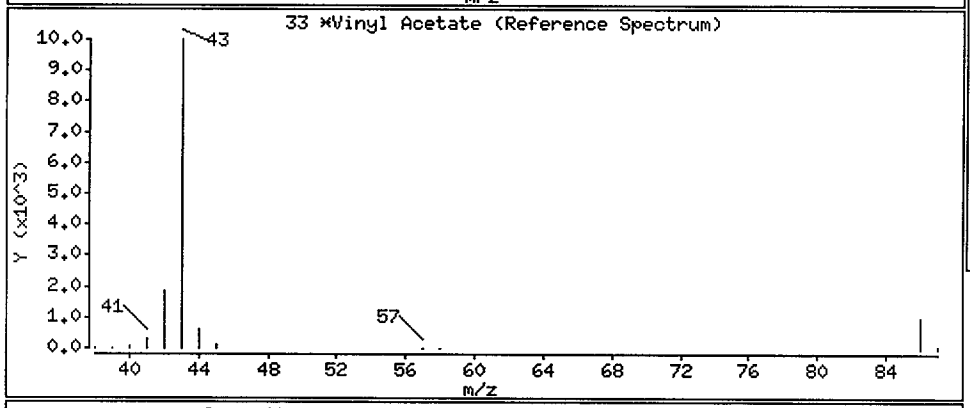
Concentration: 0.016036 ug

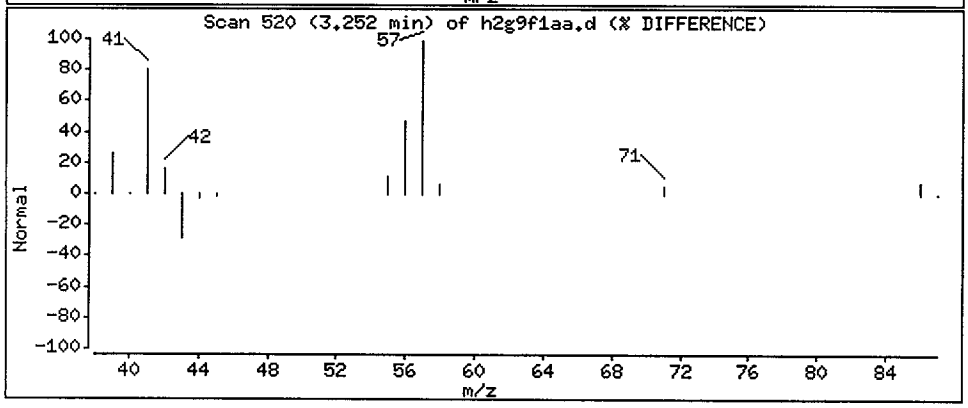












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

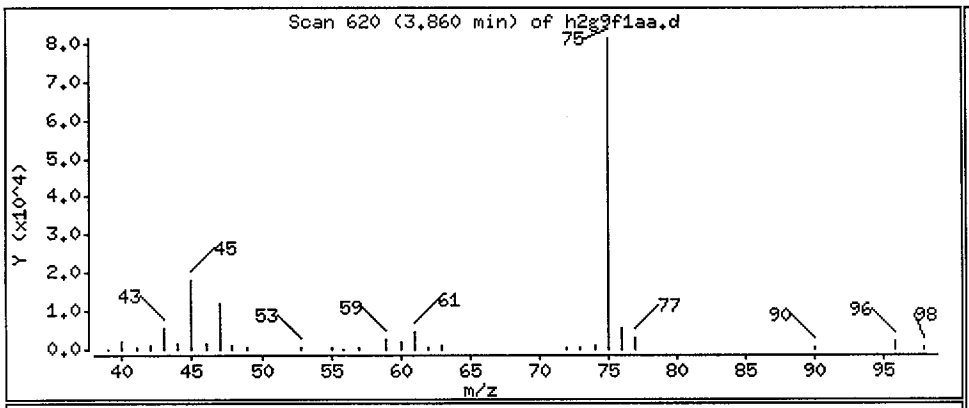
Operator: 22980

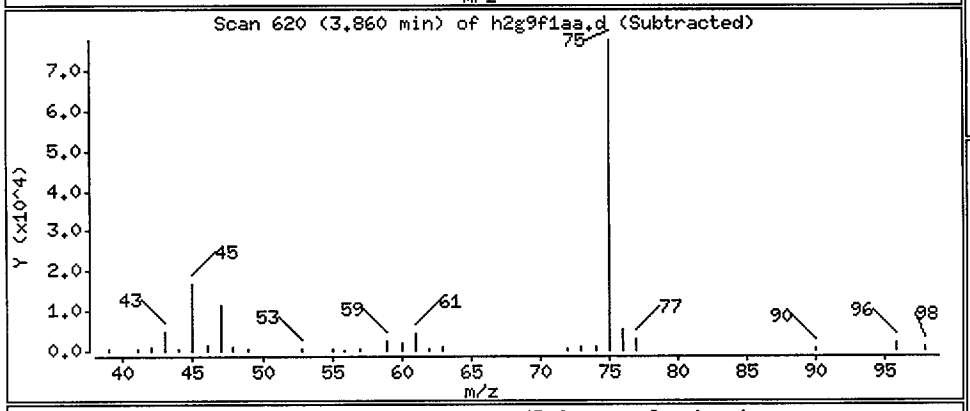
Column phase: J+W 624

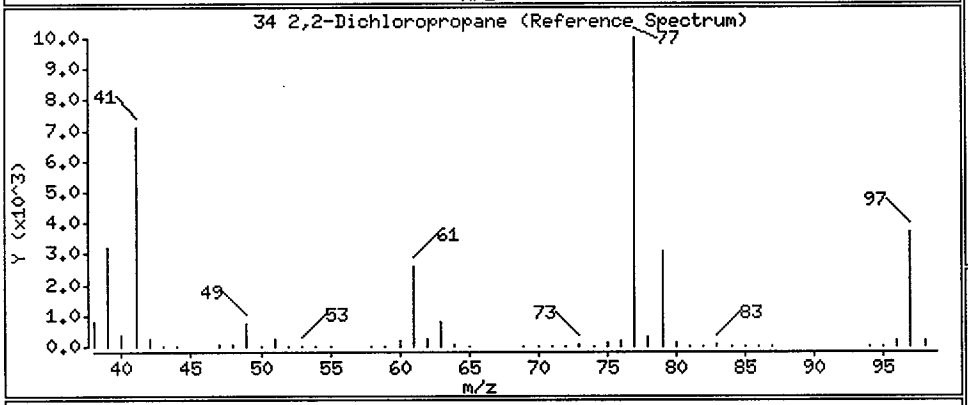
Column diameter: 0.18

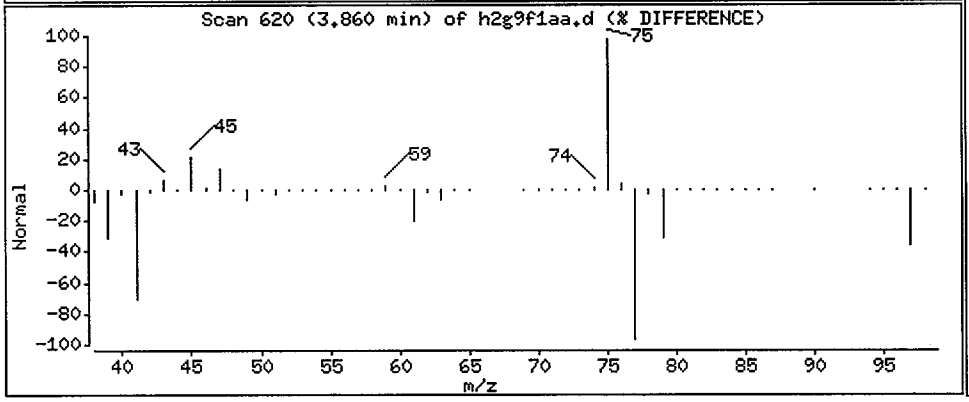
34 2,2-Dichloropropane

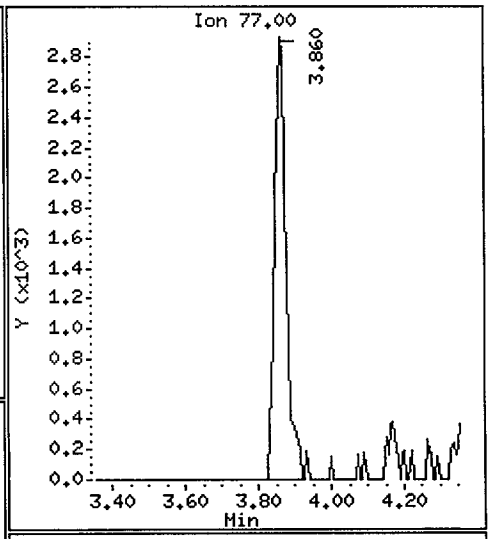
Concentration: 0.0031277 ug

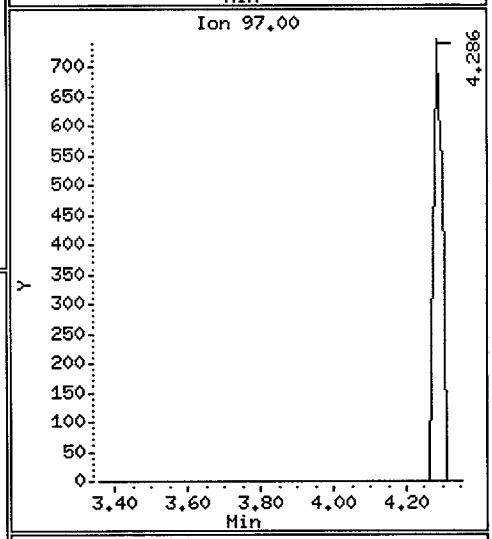


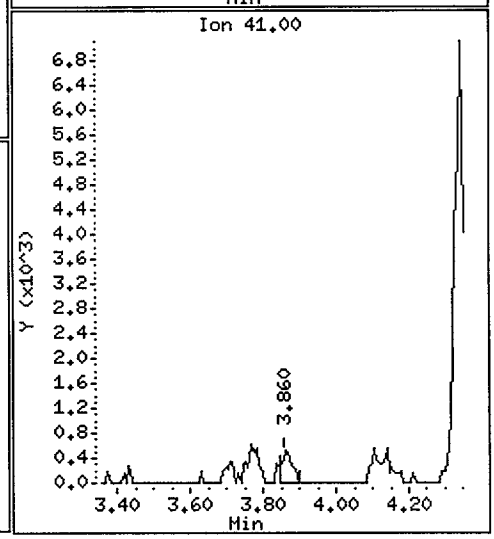












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

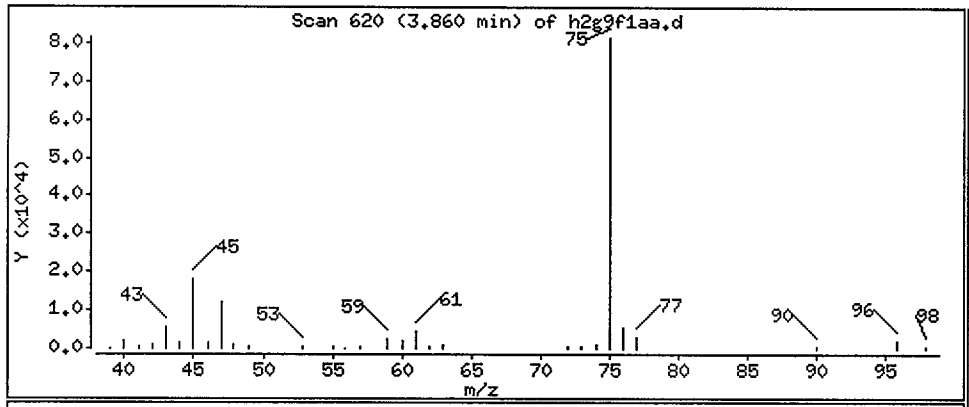
Operator: 22980

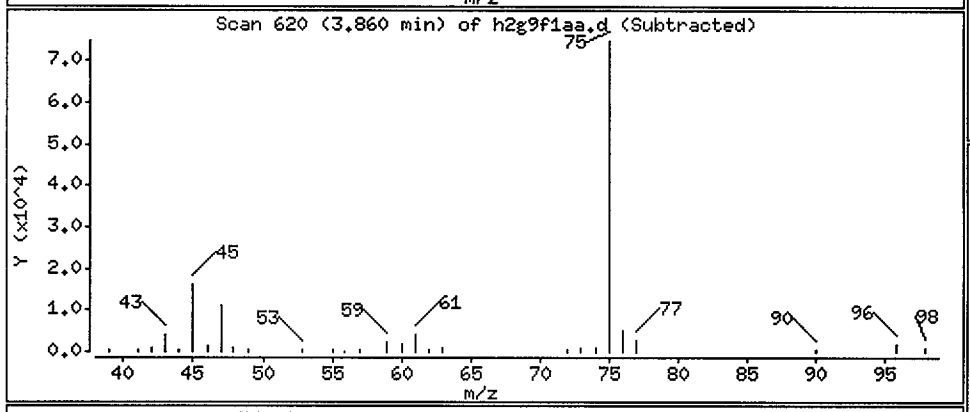
Column phase: J+W 624

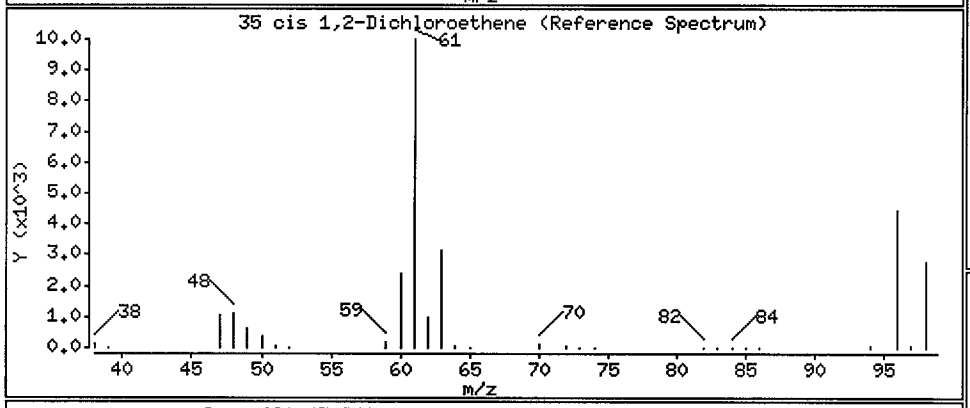
Column diameter: 0.18

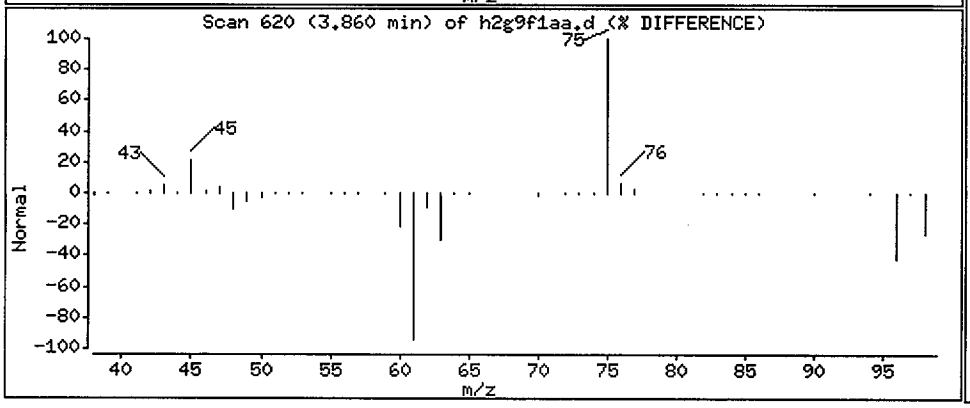
35 cis 1,2-Dichloroethene

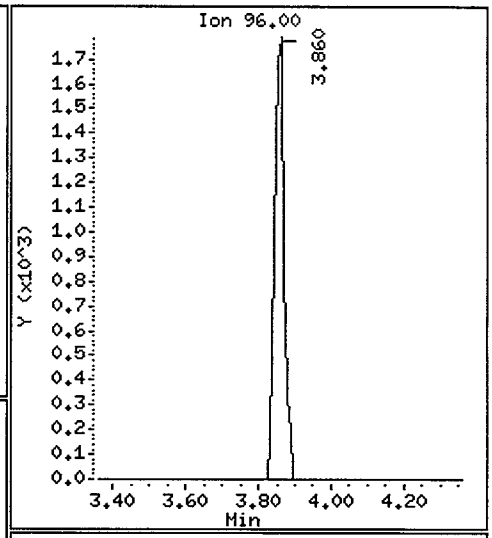
Concentration: 0.0029313 ug

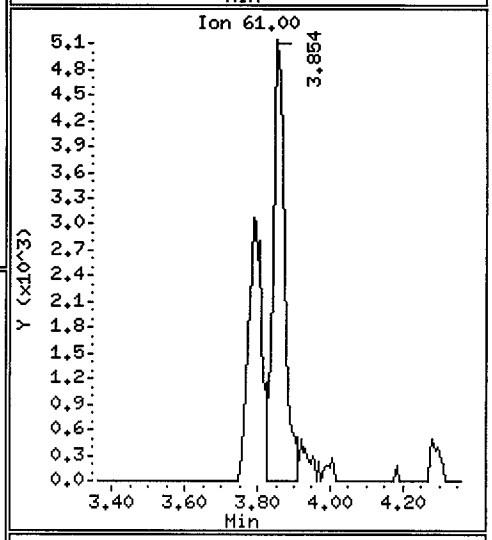


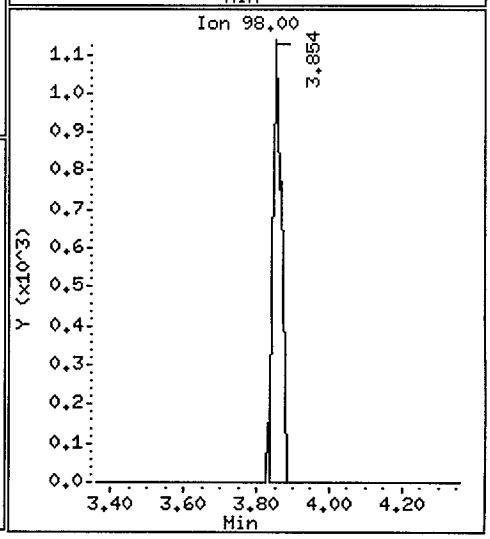












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

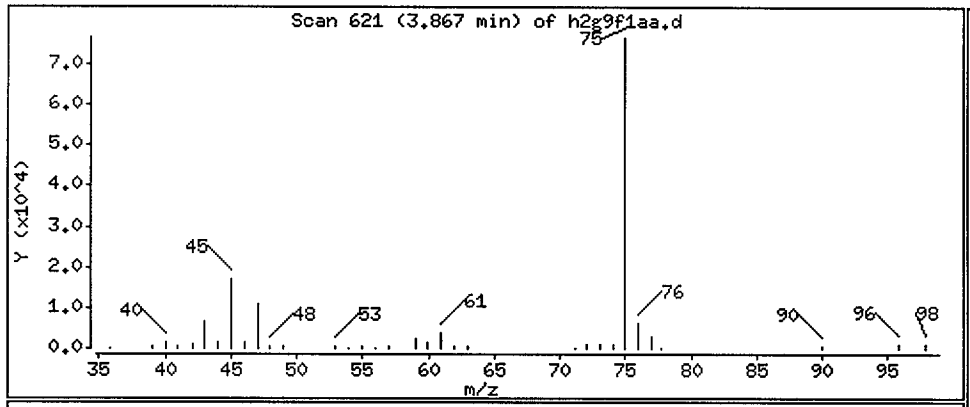
Operator: 22980

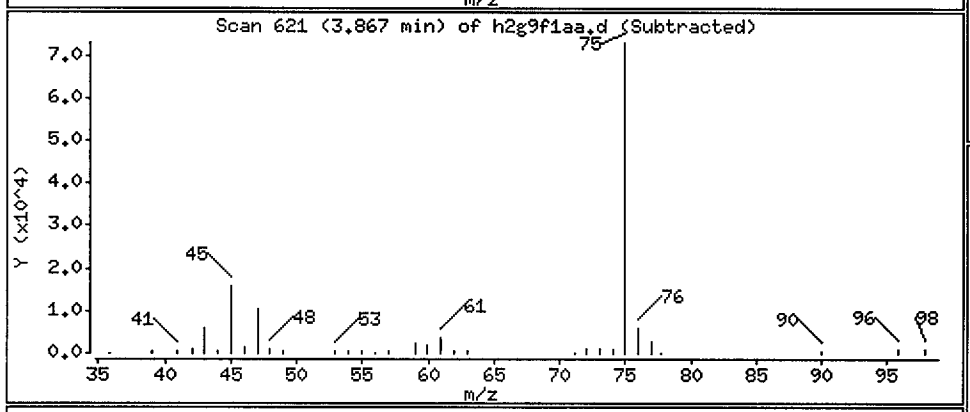
Column phase: J+W 624

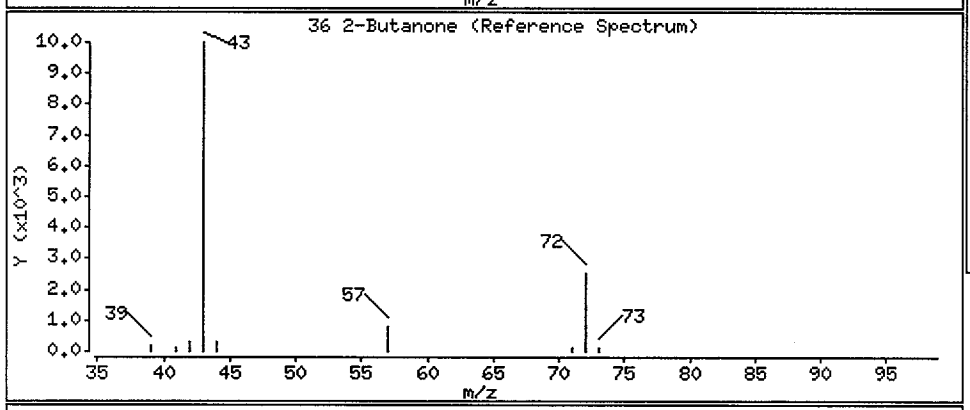
Column diameter: 0.18

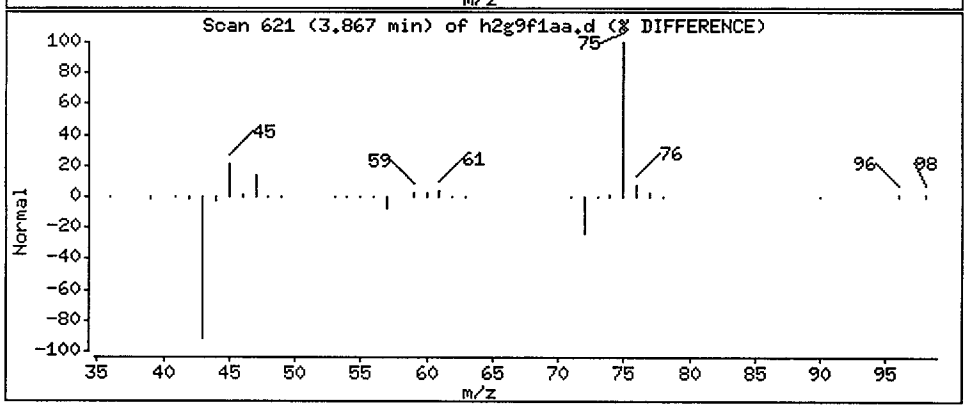
36 2-Butanone

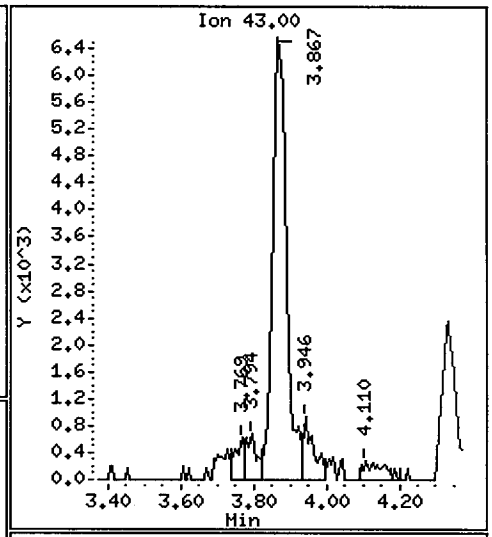
Concentration: 0.16852 ug

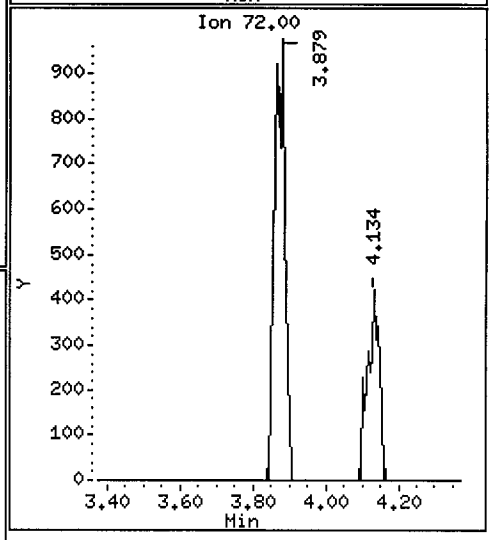












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

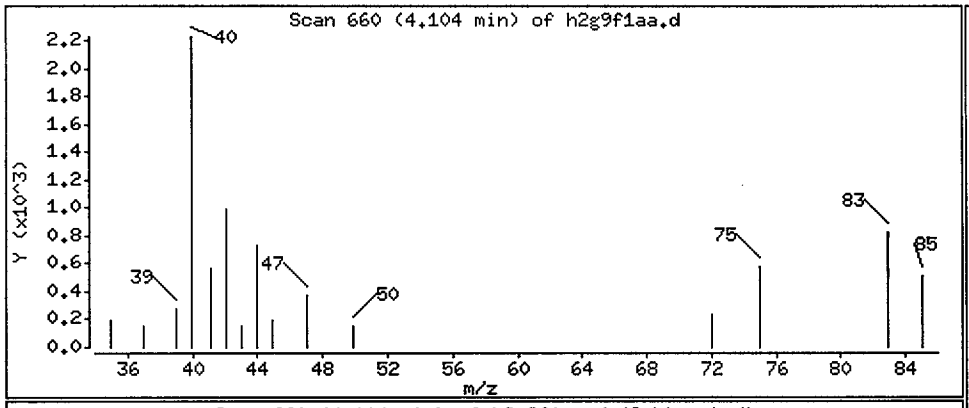
Operator: 22980

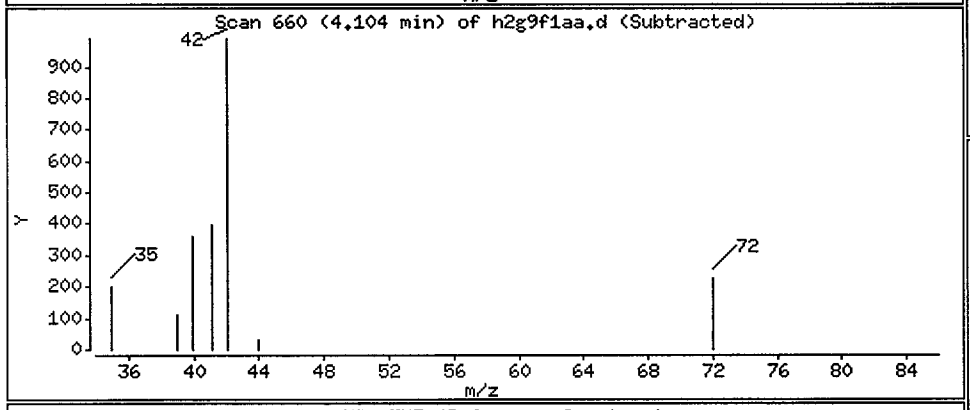
Column phase: J+W 624

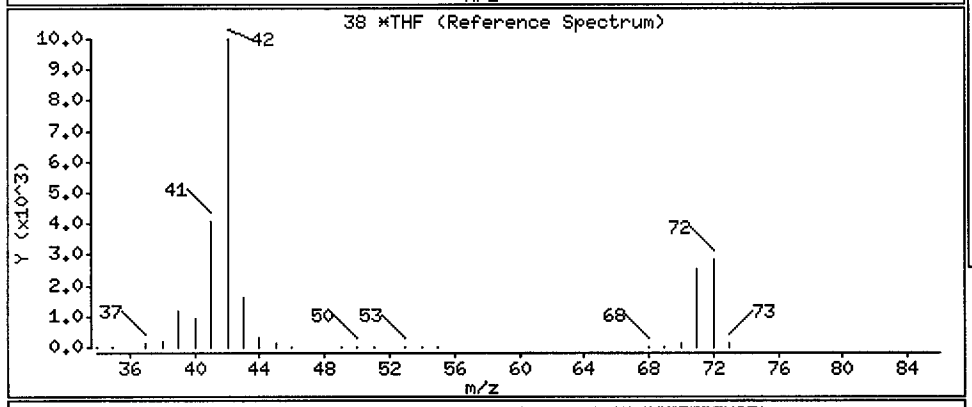
Column diameter: 0.18

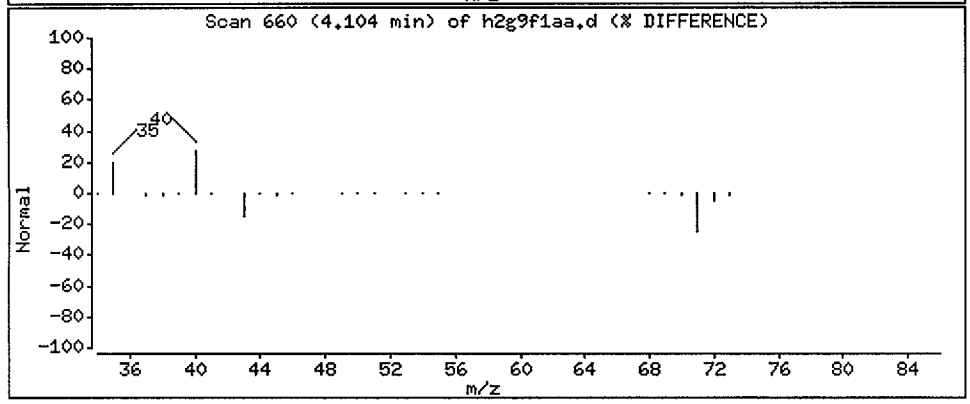
38 *THF

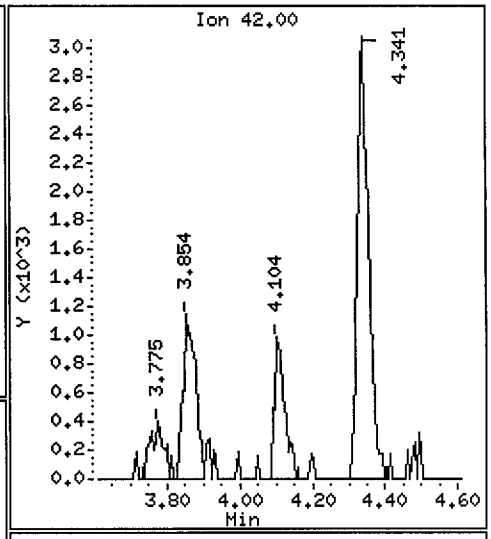
Concentration: 0.028713 ug

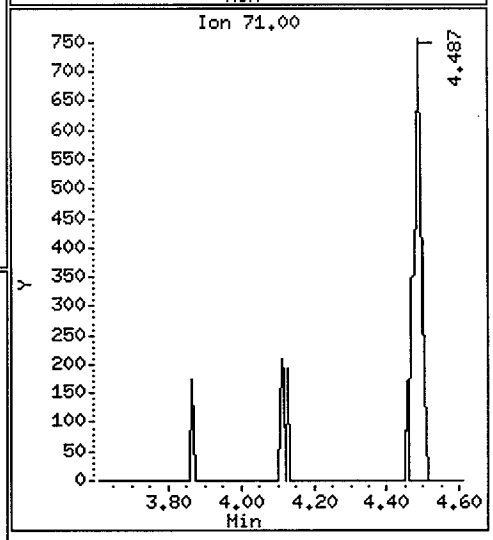












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

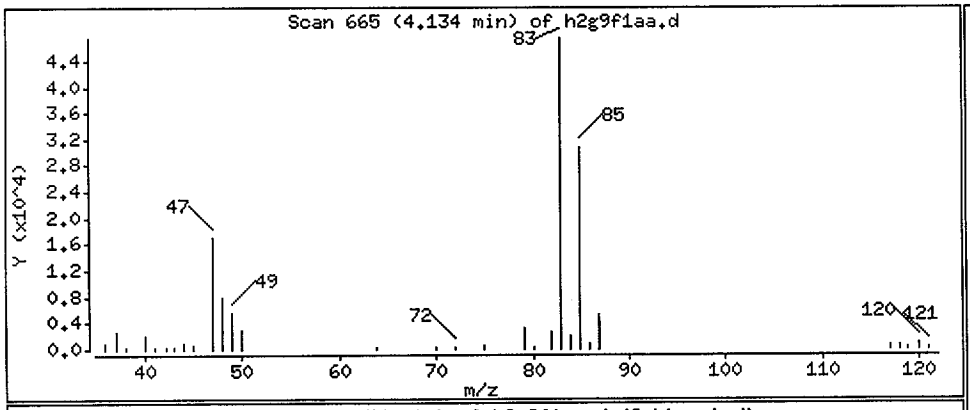
Operator: 22980

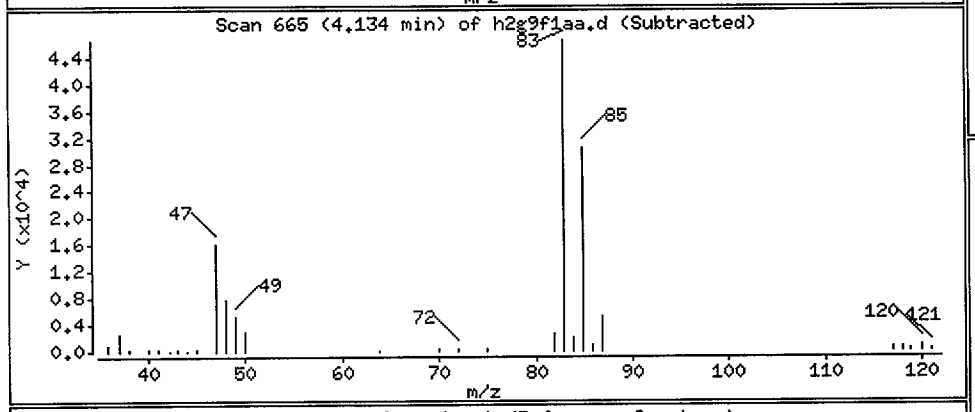
Column phase: J+W 624

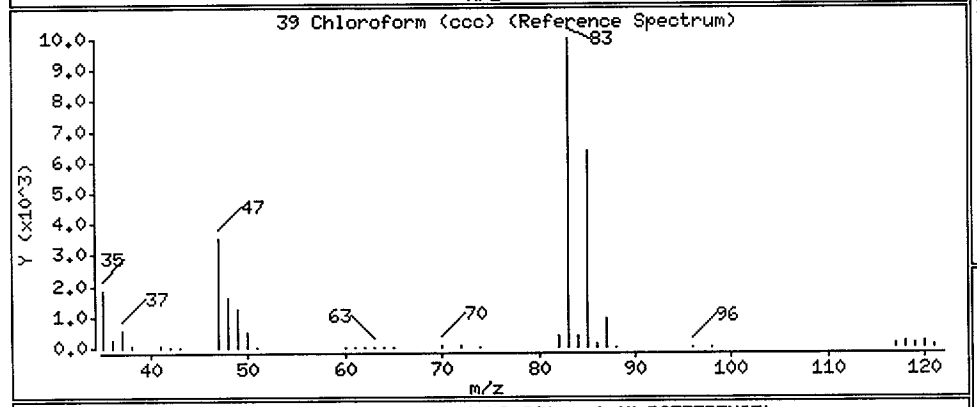
Column diameter: 0.18

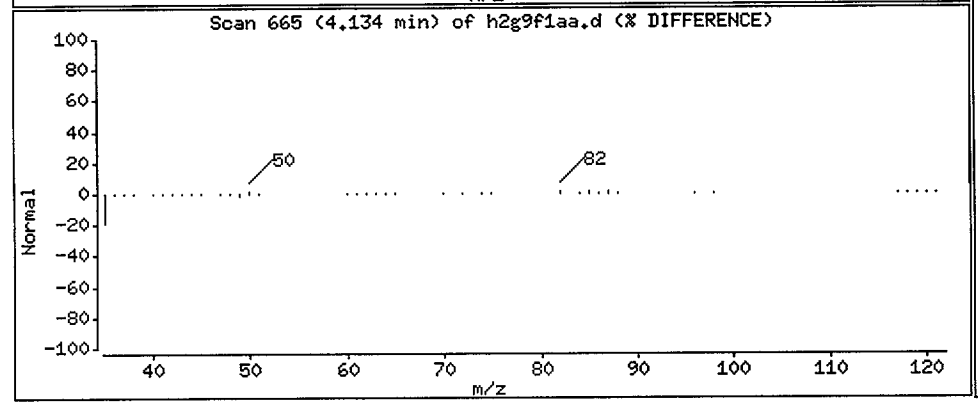
39 Chloroform (ccc)

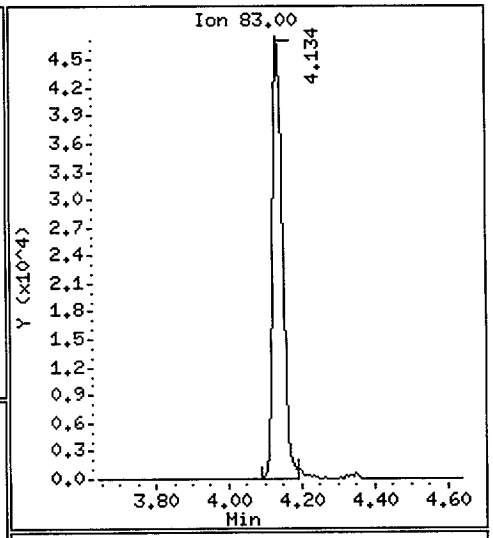
Concentration: 0.049916 ug

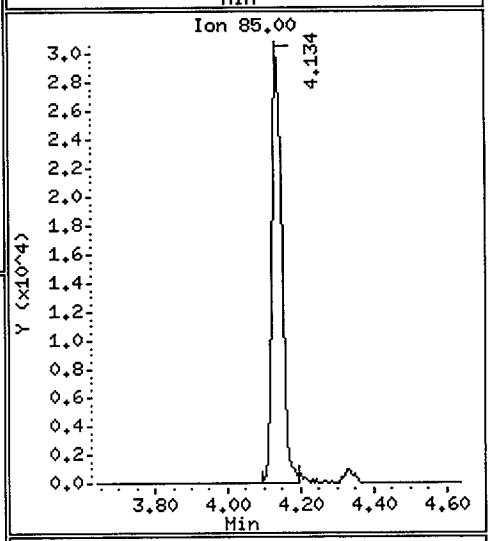


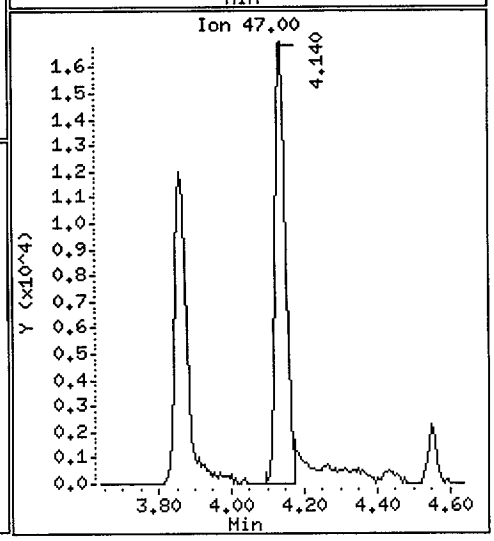












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

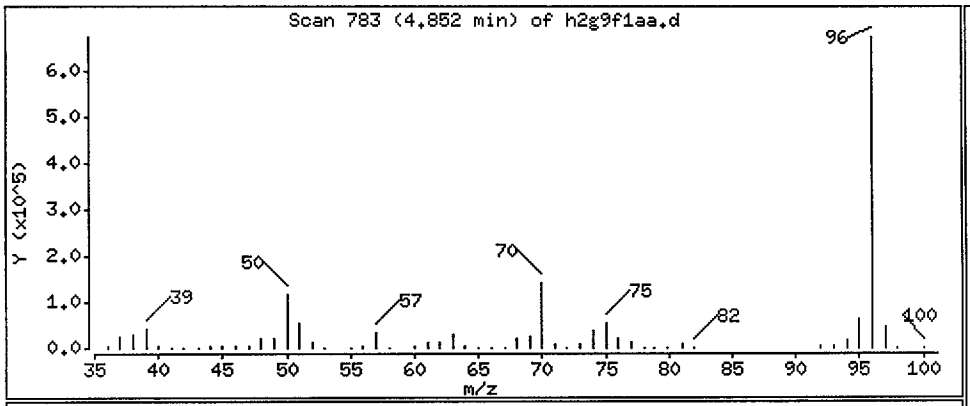
Operator: 22980

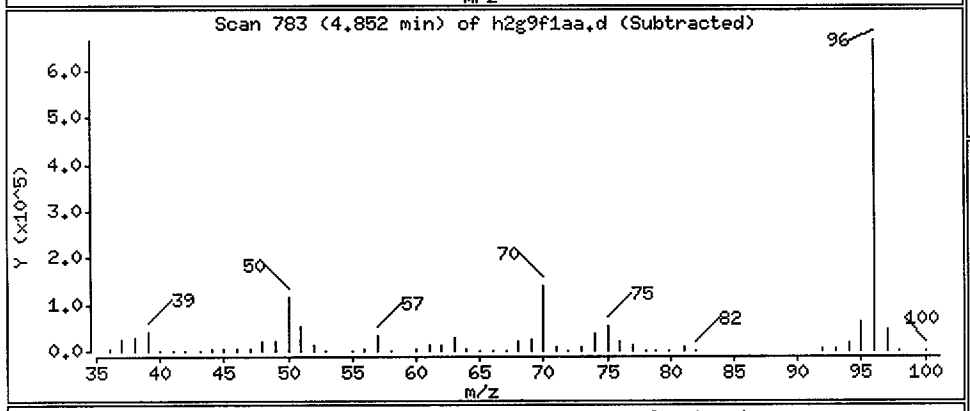
Column phase: J+W 624

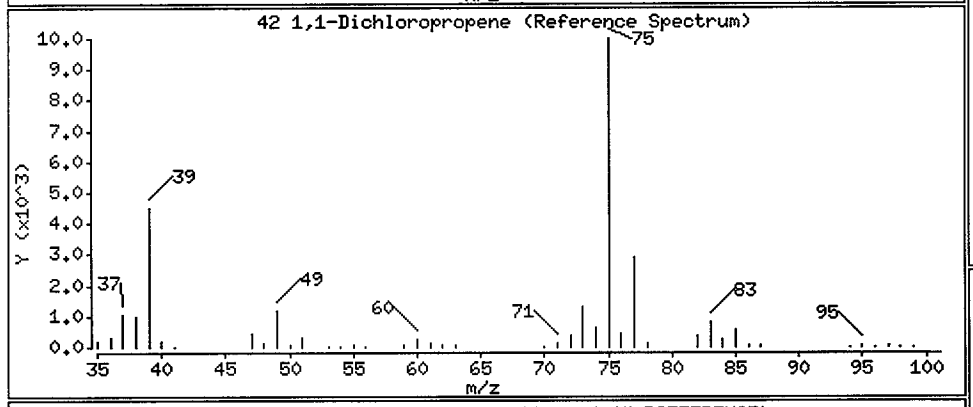
Column diameter: 0.18

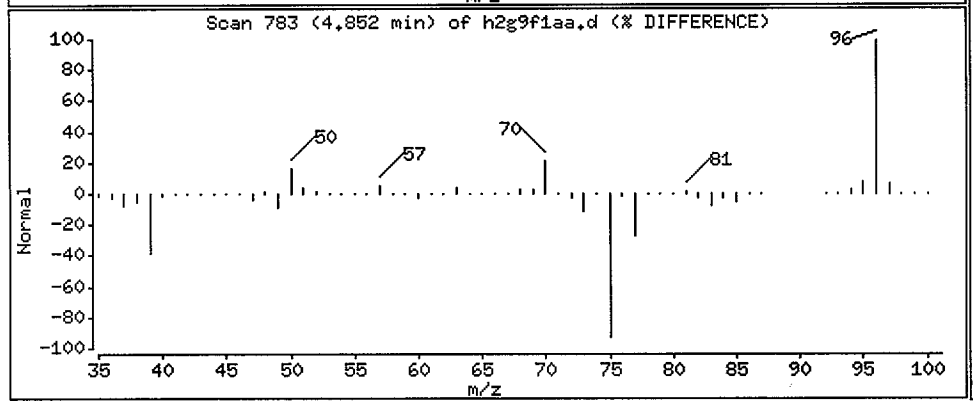
42 1,1-Dichloropropene

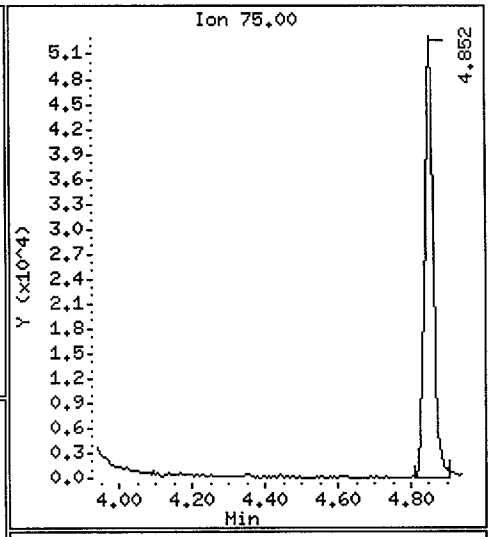
Concentration: 0.048748 ug

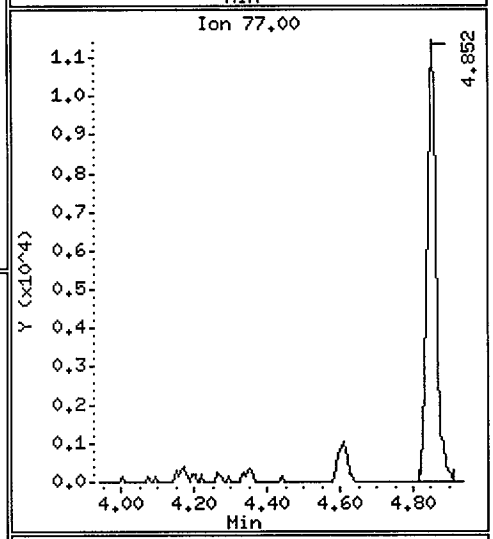


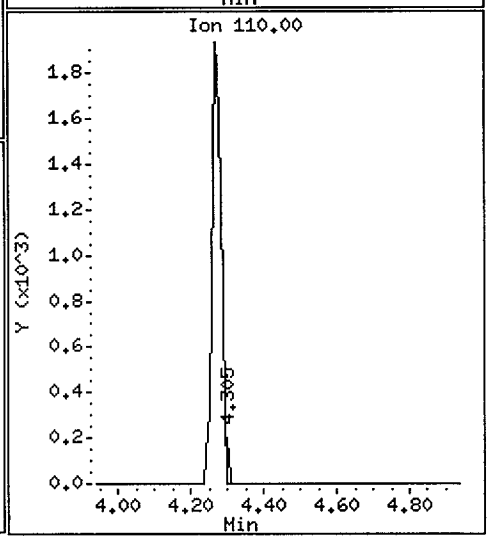












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

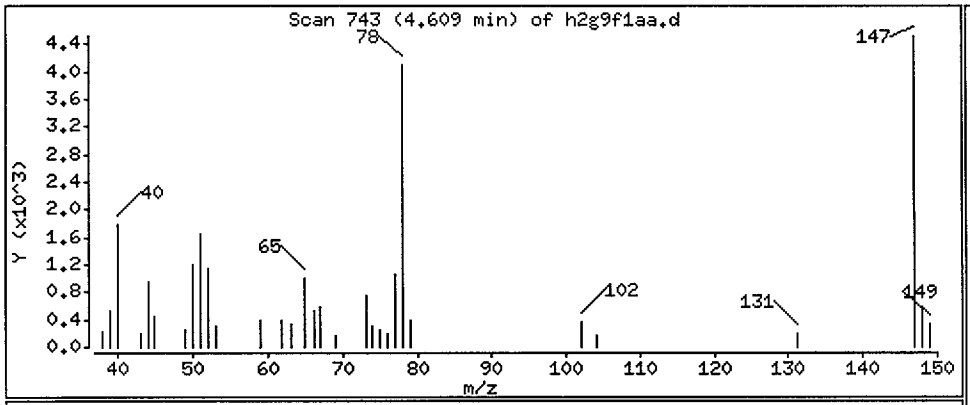
Operator: 22980

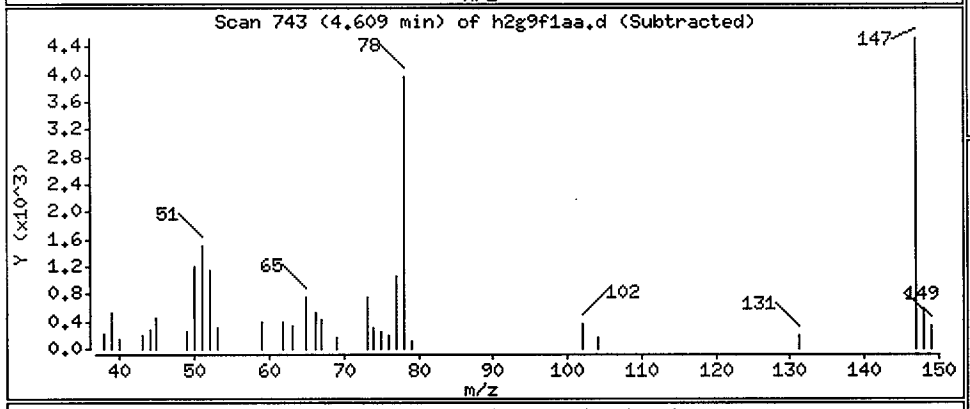
Column phase: J+W 624

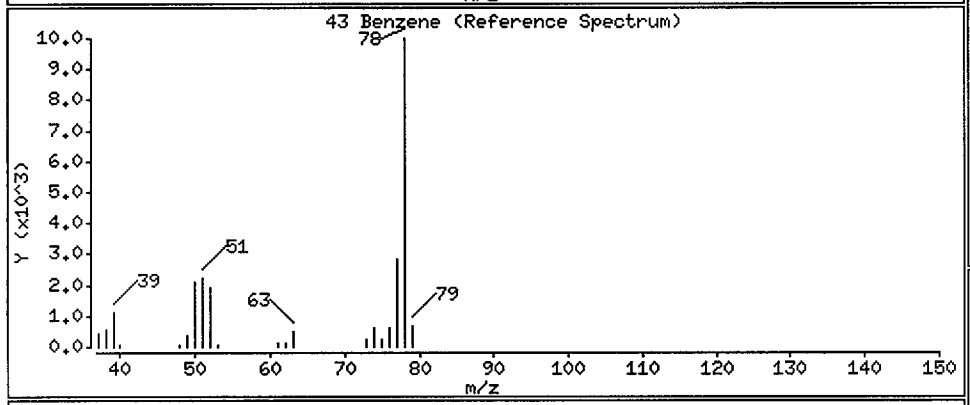
Column diameter: 0.18

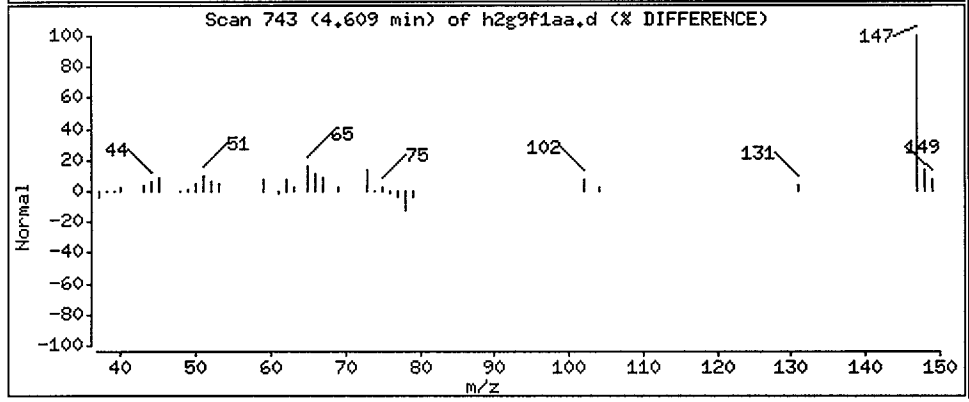
43 Benzene

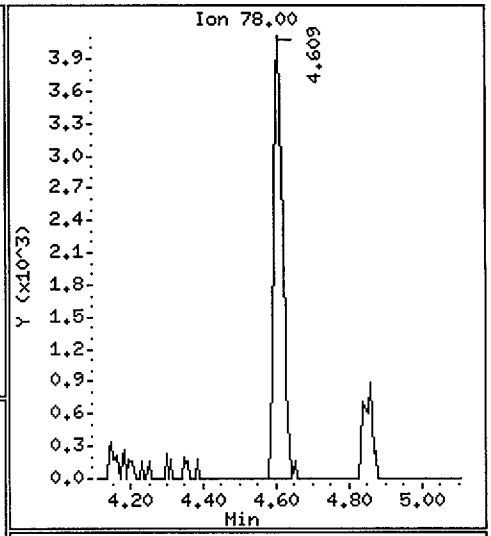
Concentration: 0.0014228 ug

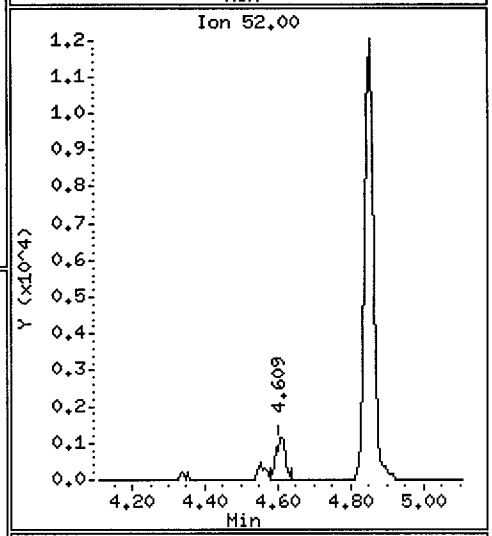


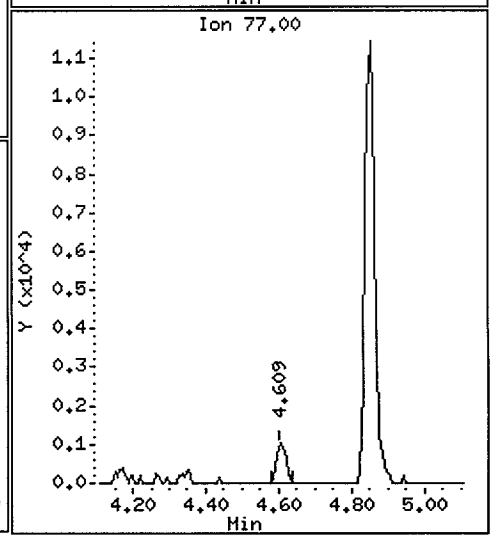












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

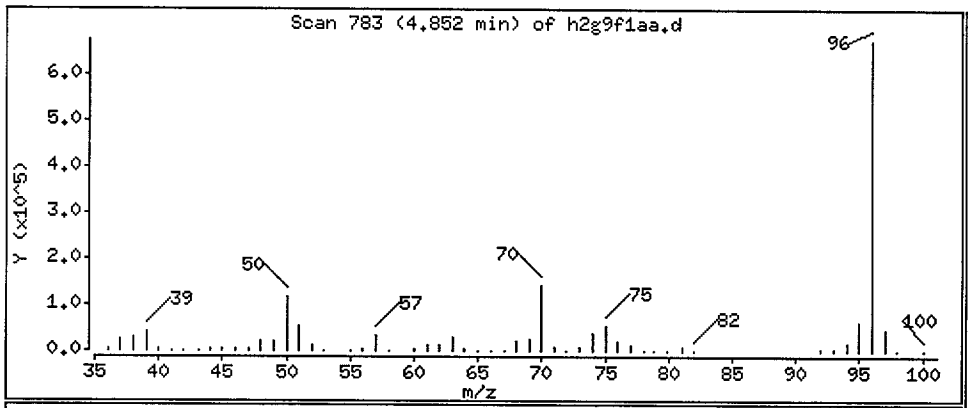
Operator: 22980

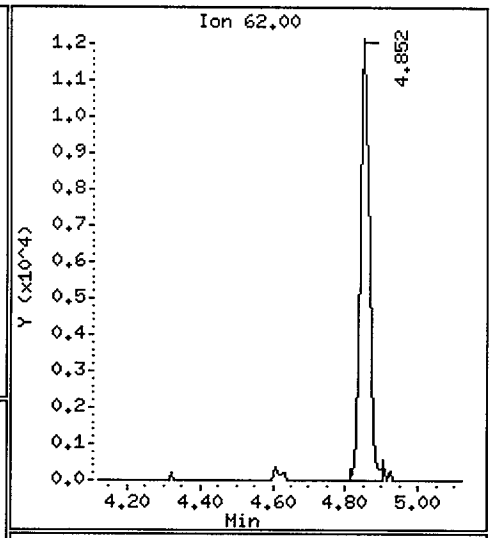
Column phase: J+W 624

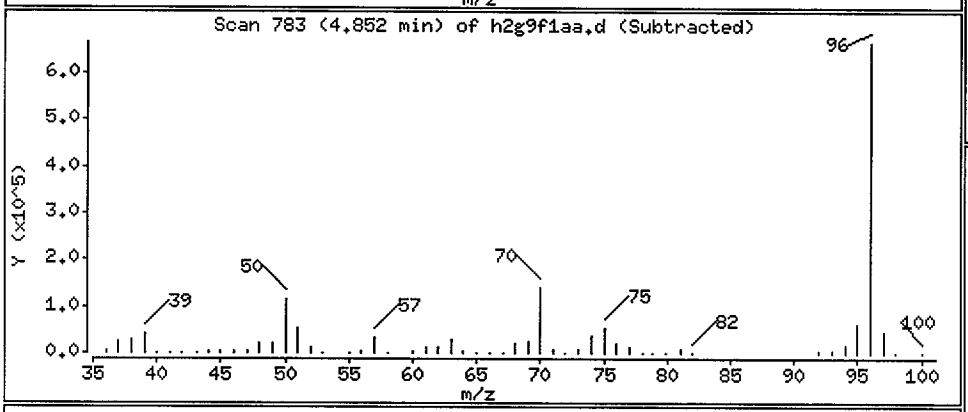
Column diameter: 0.18

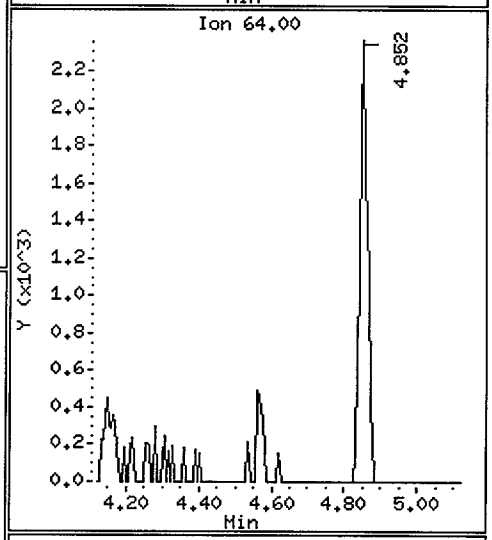
44 1,2-Dichloroethane

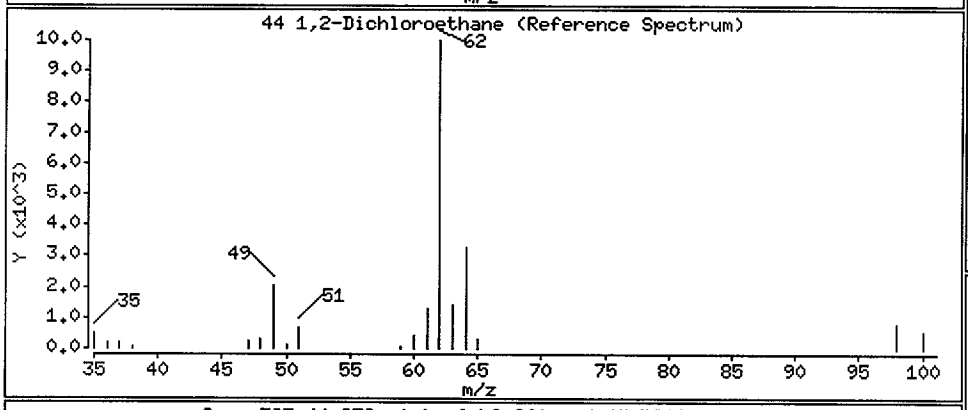
Concentration: 0.025908 ug

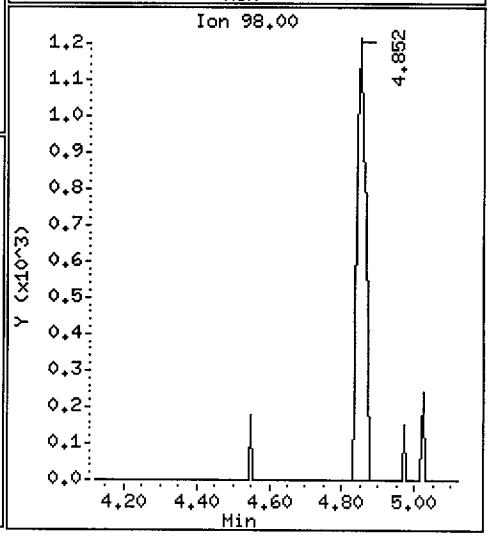


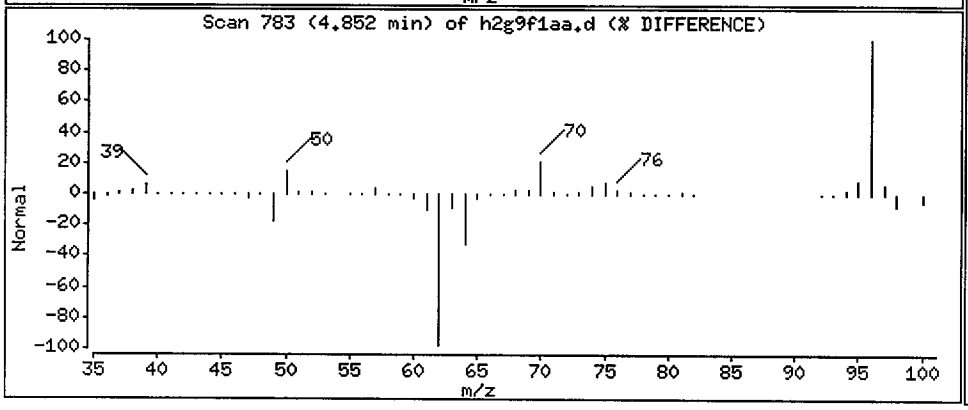












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

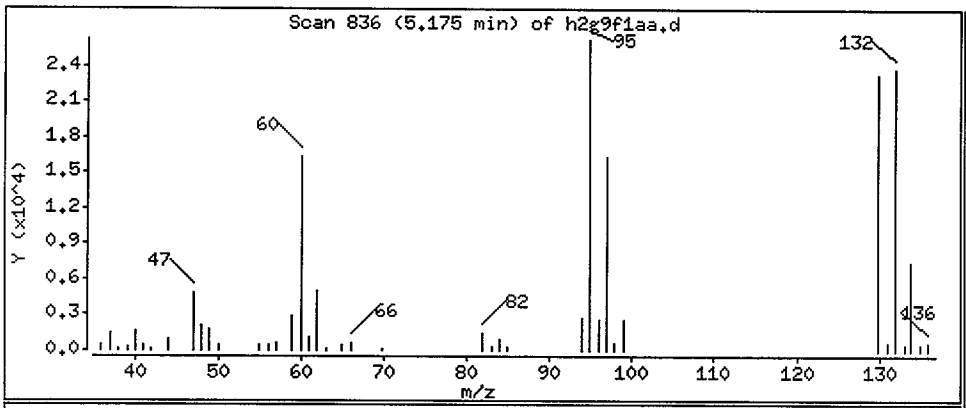
Operator: 22980

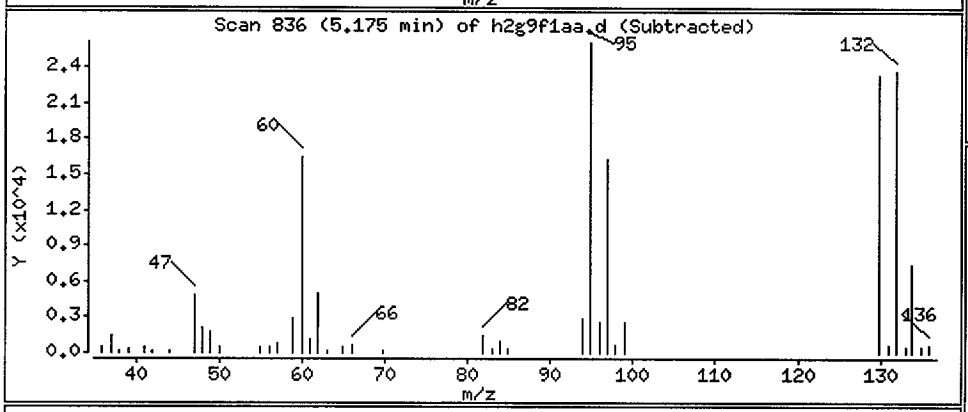
Column phase: J+W 624

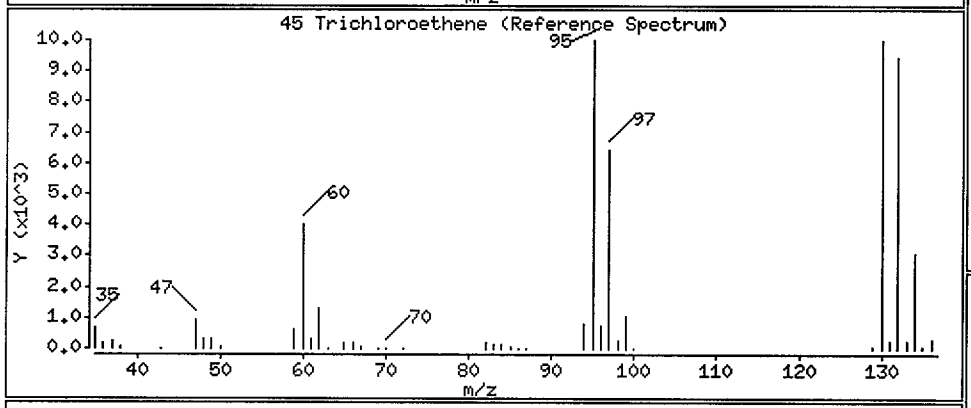
Column diameter: 0.18

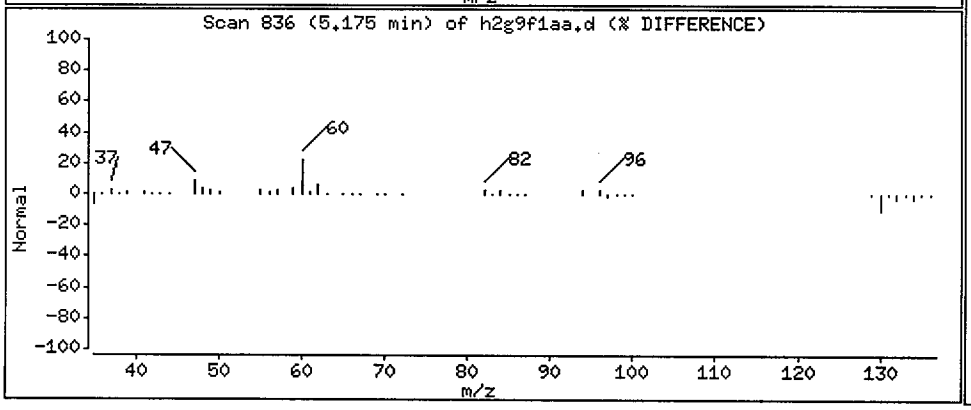
45 Trichloroethene

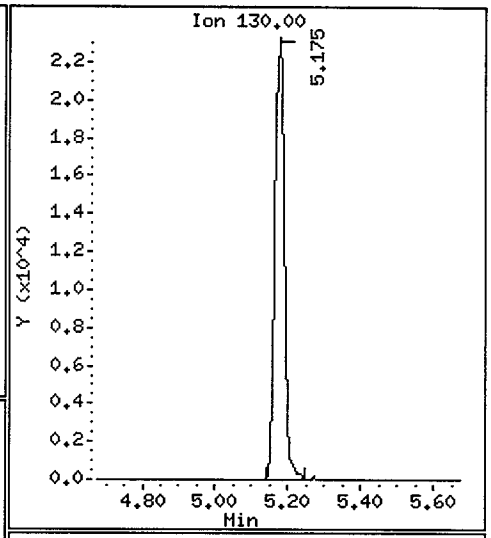
Concentration: 0.031797 ug

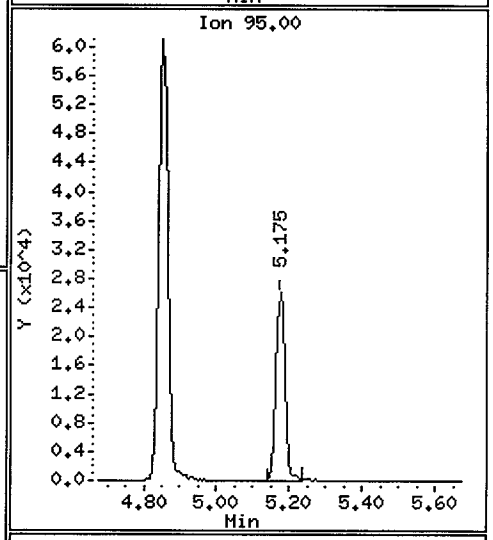


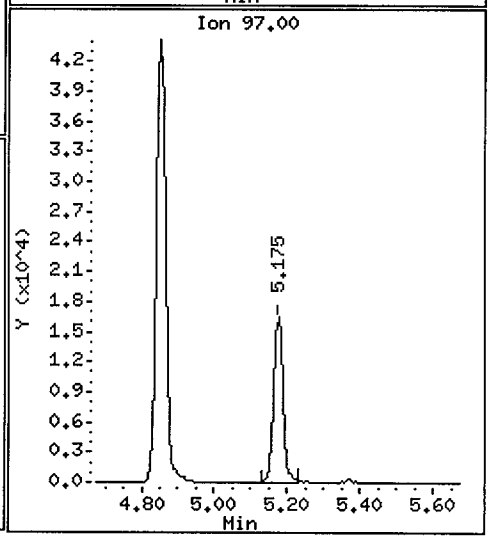












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

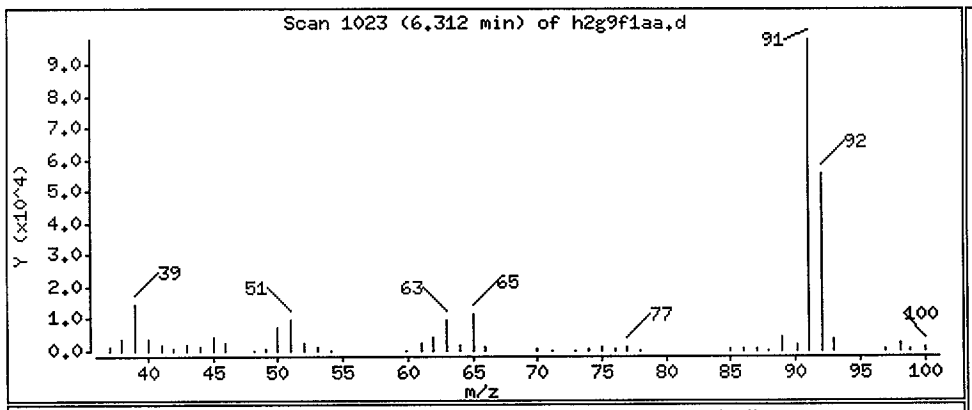
Operator: 22980

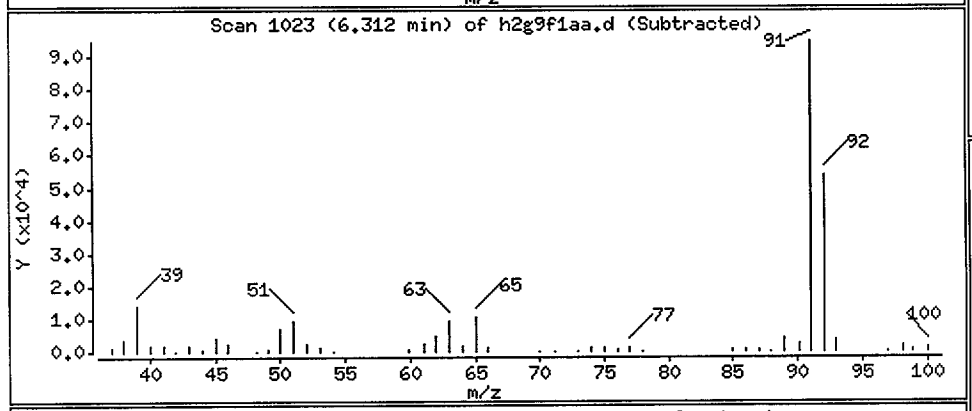
Column phase: J+W 624

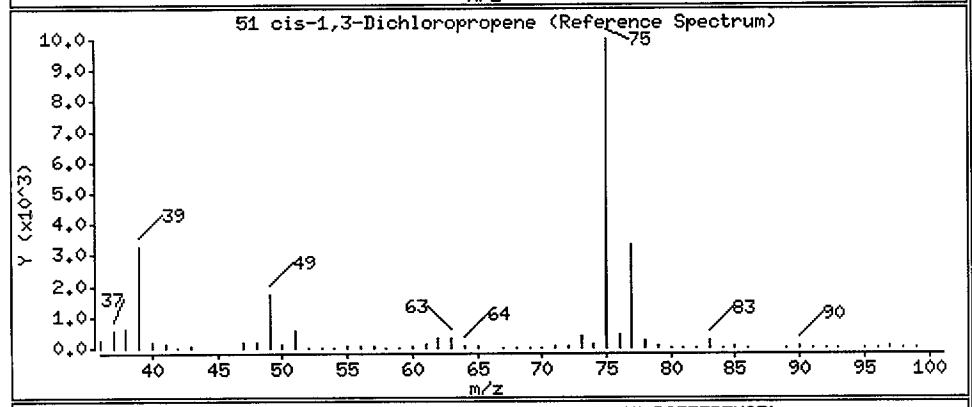
Column diameter: 0.18

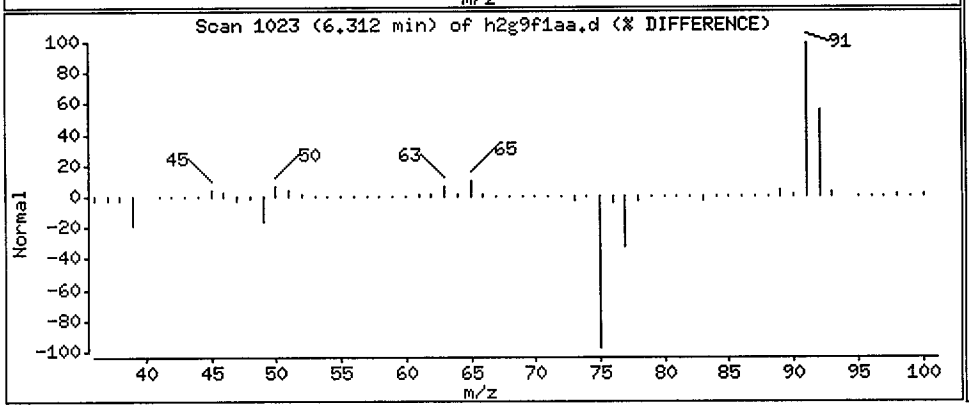
51 cis-1,3-Dichloropropene

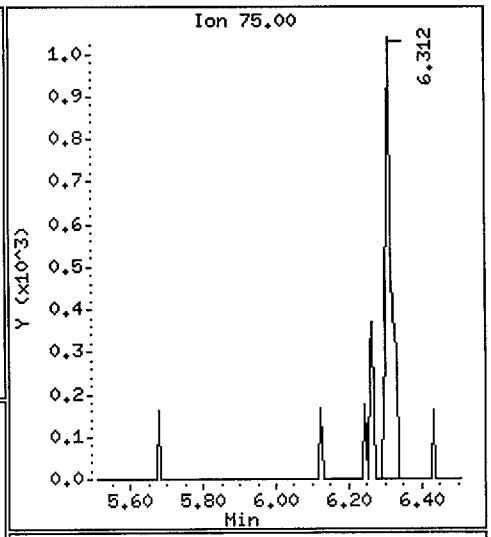
Concentration: 0.0010820 ug

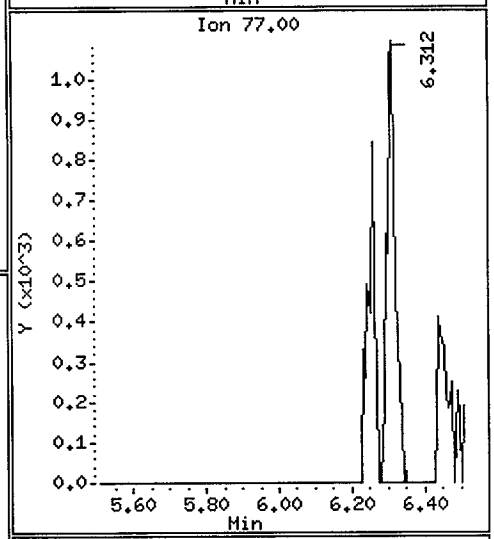


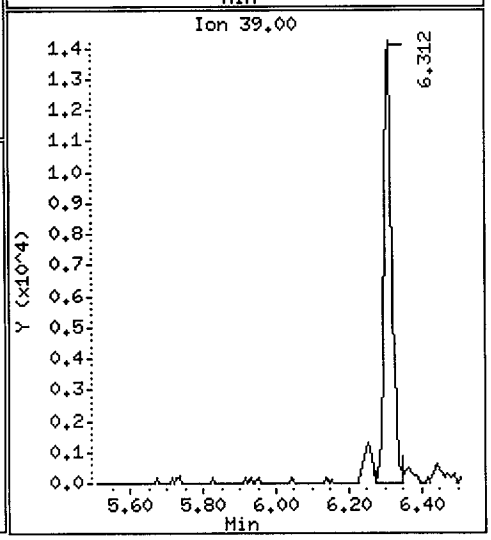












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

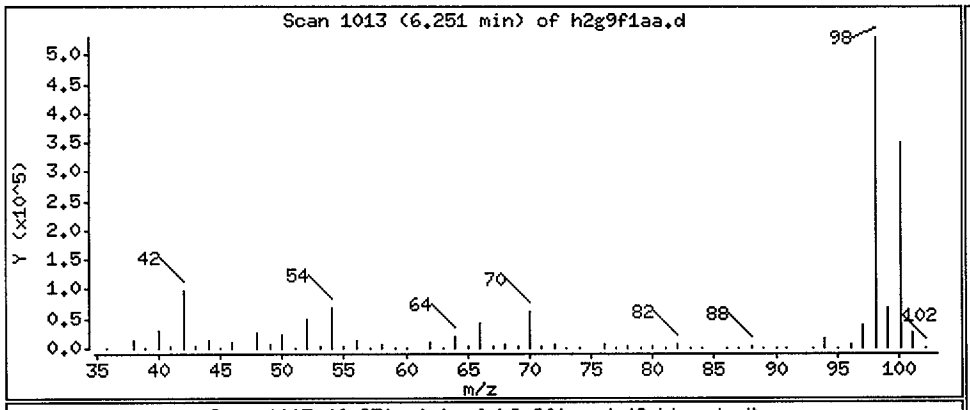
Operator: 22980

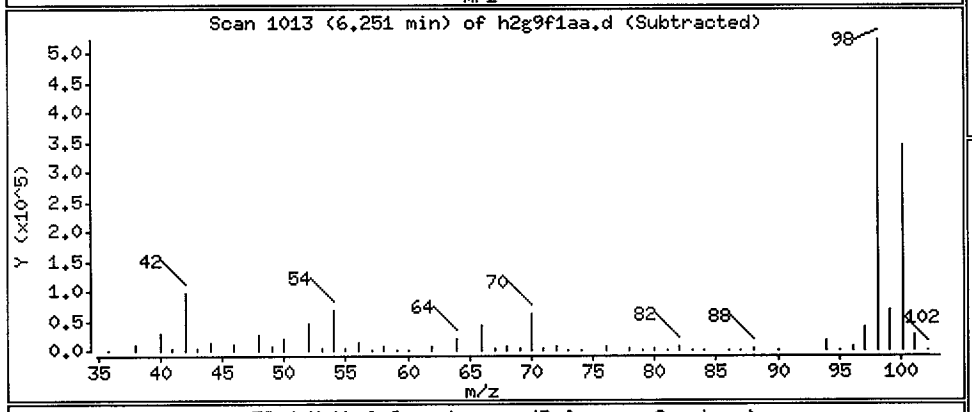
Column phase: J+W 624

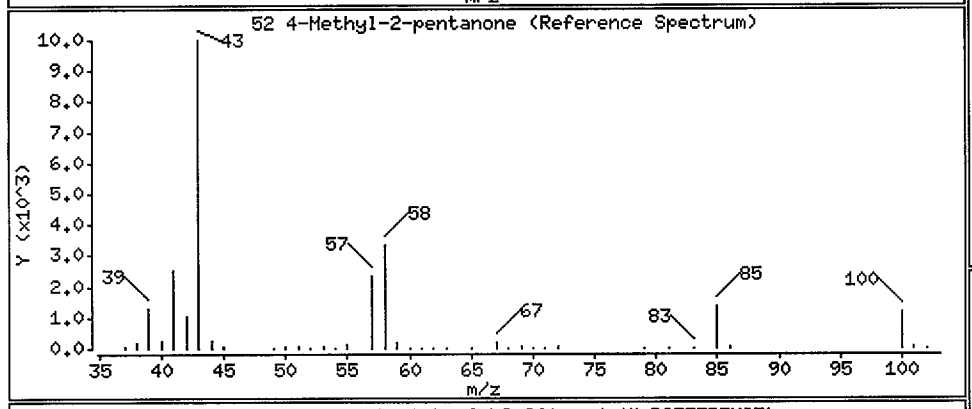
Column diameter: 0.18

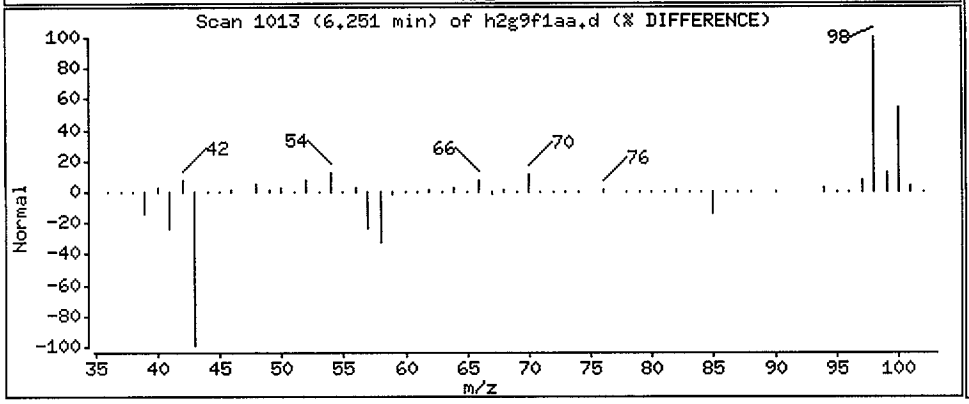
52 4-Methyl-2-pentanone

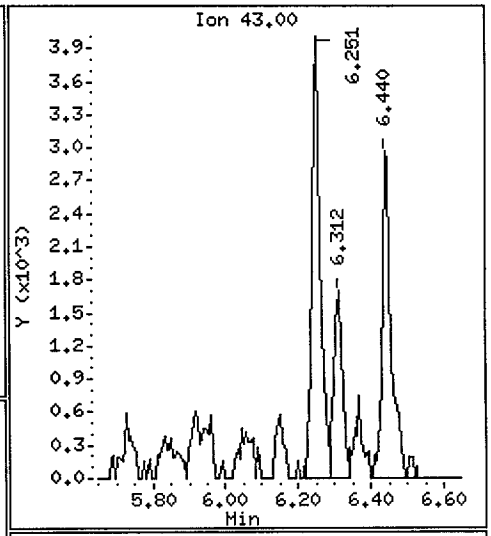
Concentration: 0.026627 ug

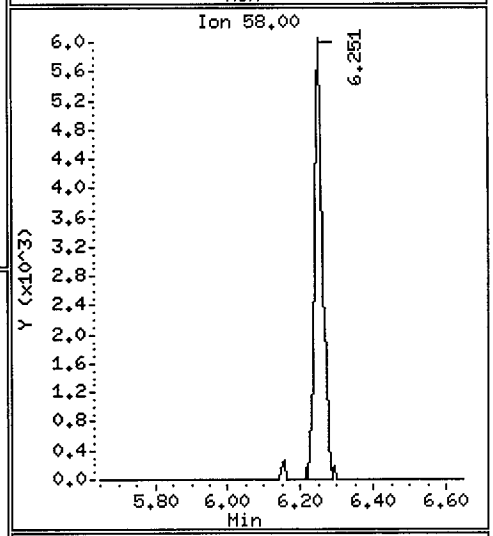


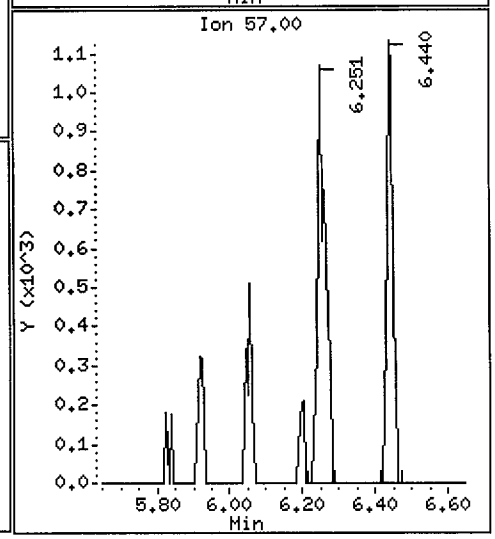












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

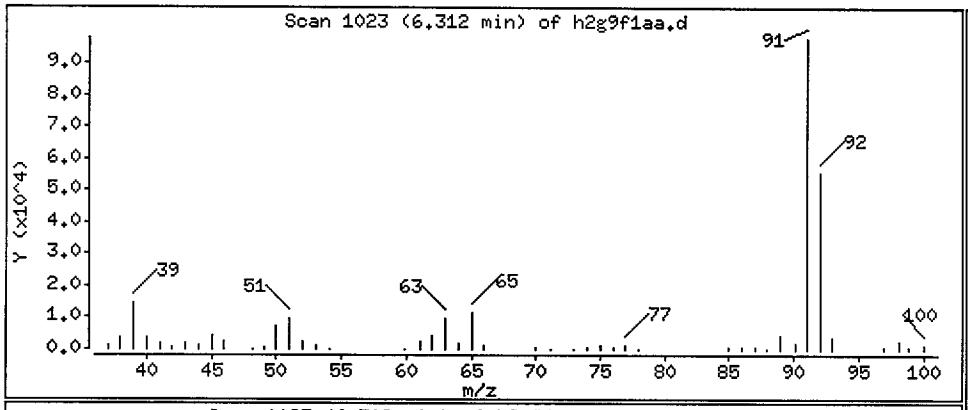
Operator: 22980

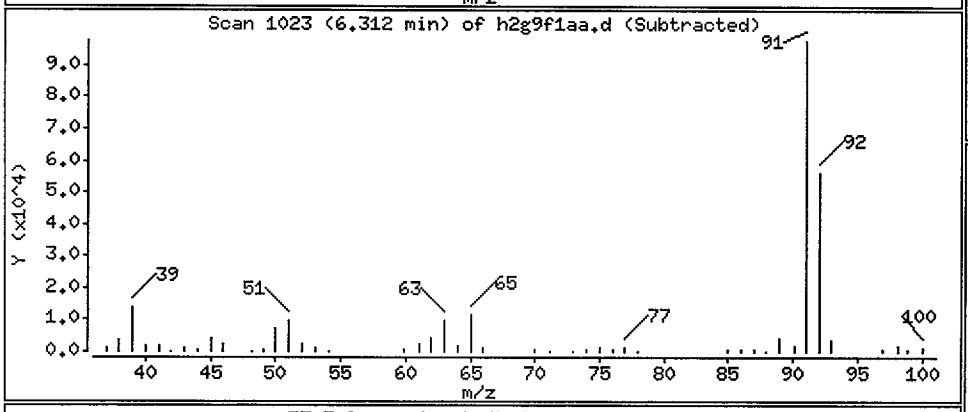
Column phase: J+W 624

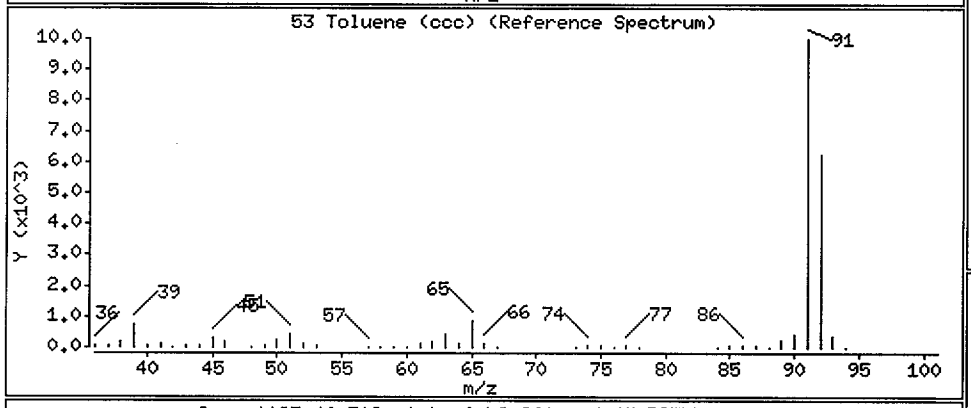
Column diameter: 0.18

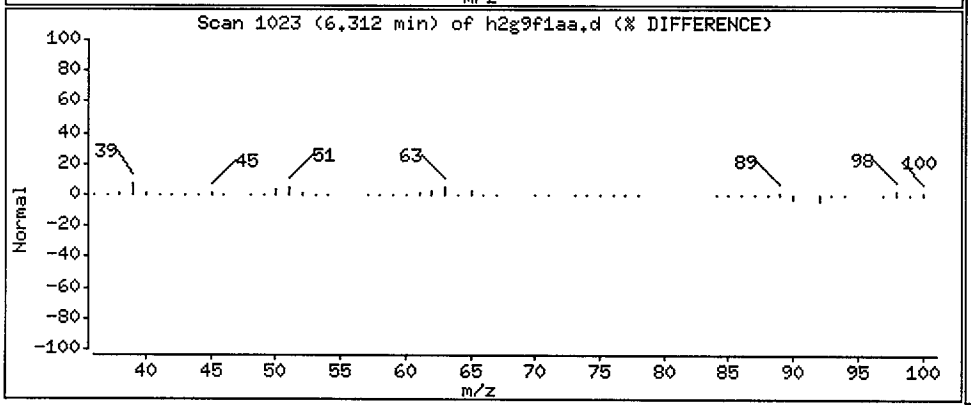
53 Toluene (ccc)

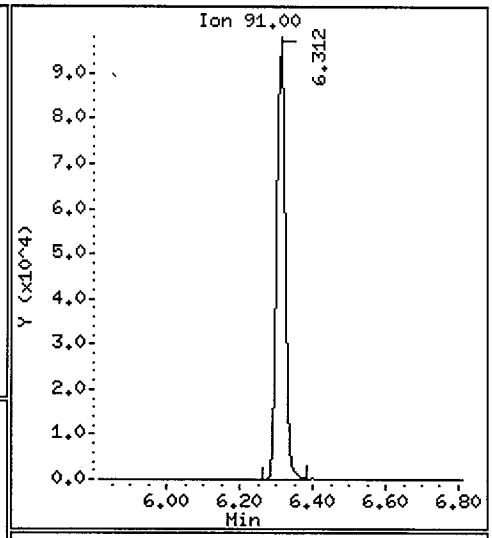
Concentration: 0.027531 ug

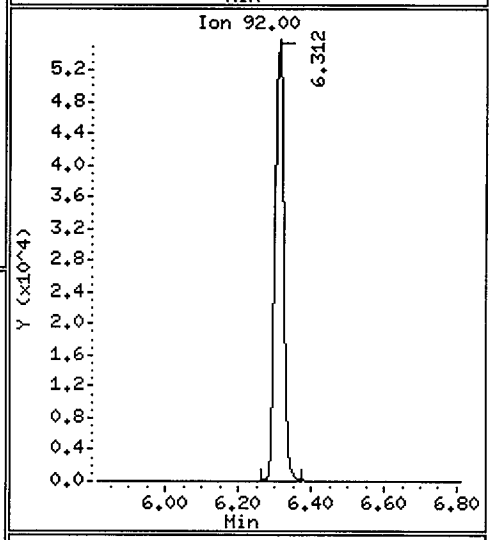


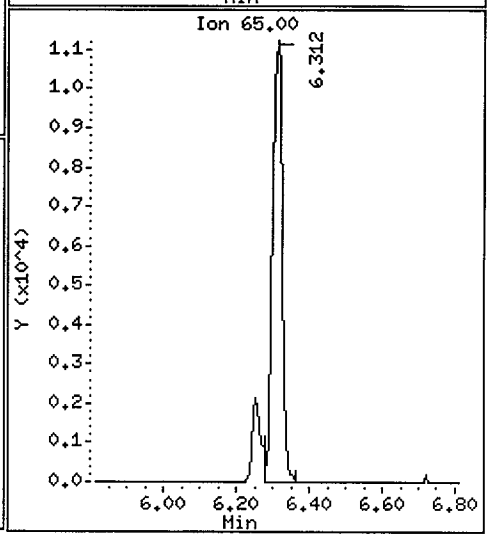












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

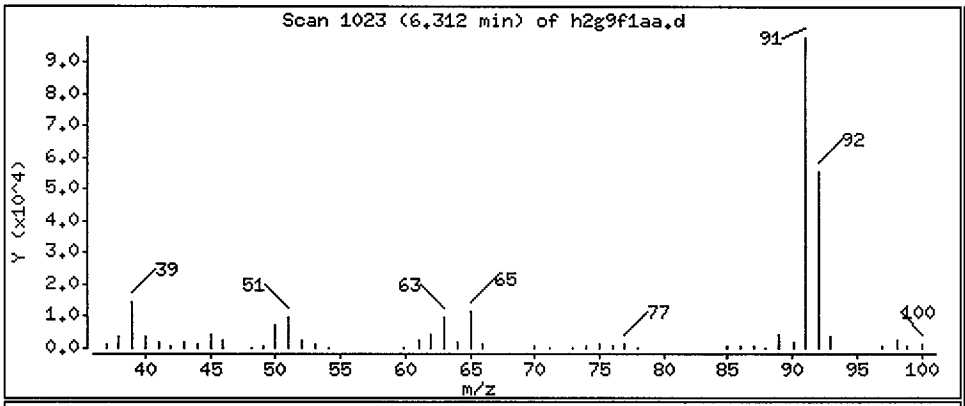
Operator: 22980

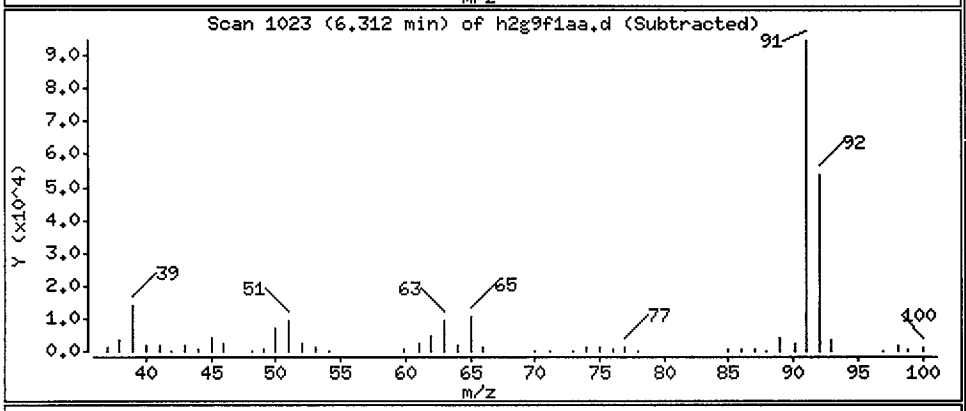
Column phase: J+W 624

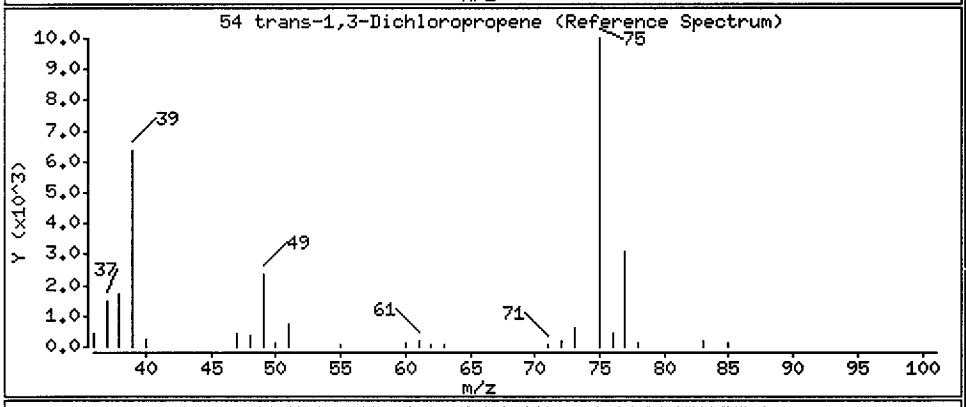
Column diameter: 0.18

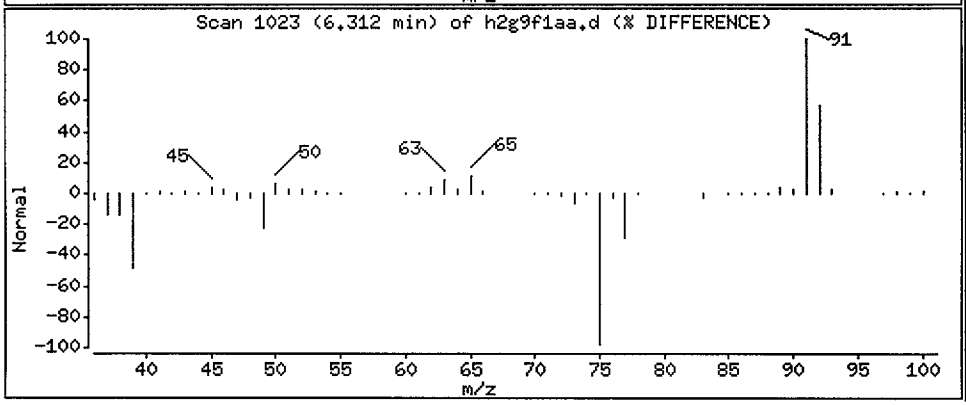
54 trans-1,3-Dichloropropene

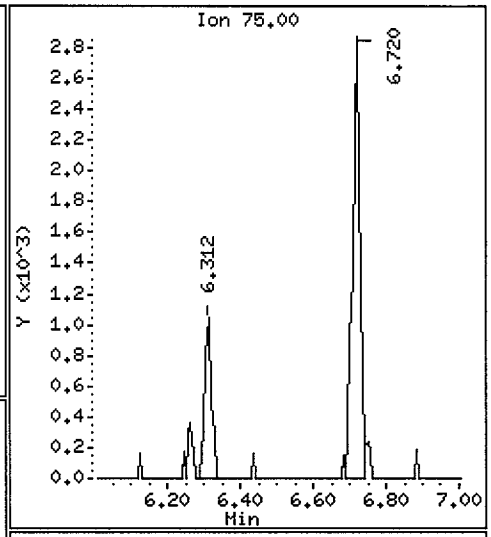
Concentration: 0.0013152 ug

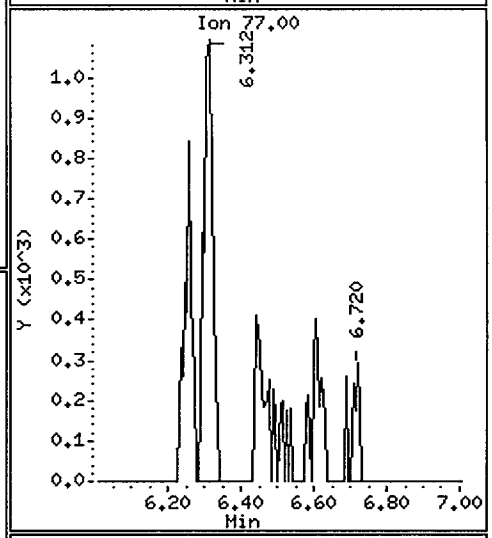


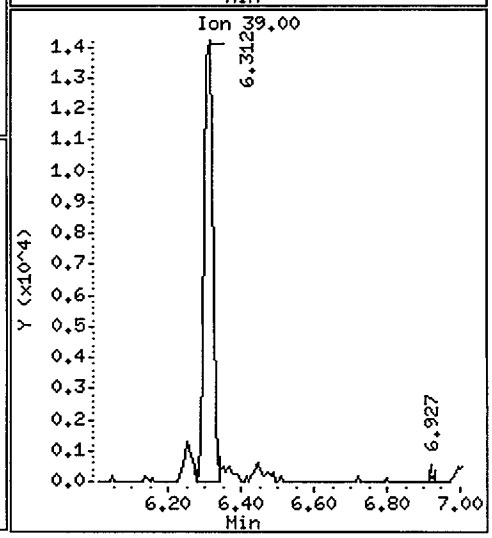












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

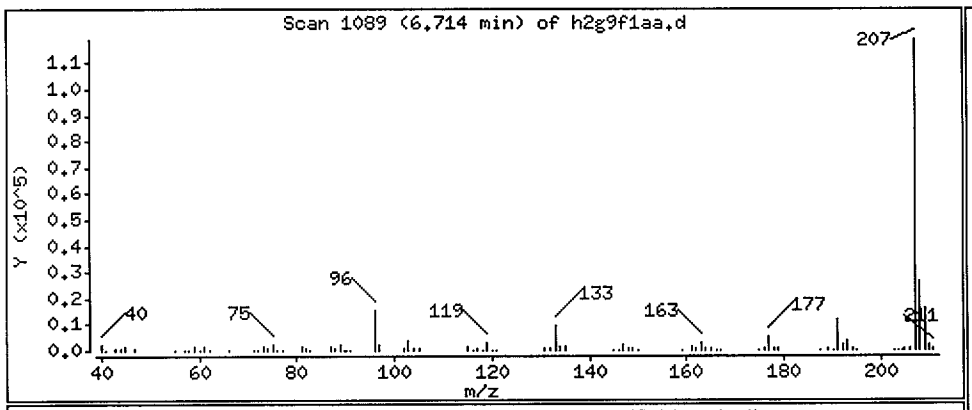
Operator: 22980

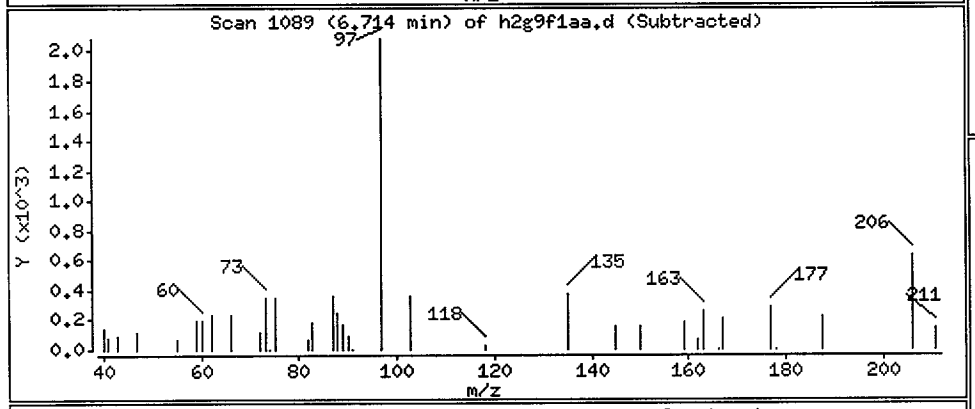
Column phase: J+W 624

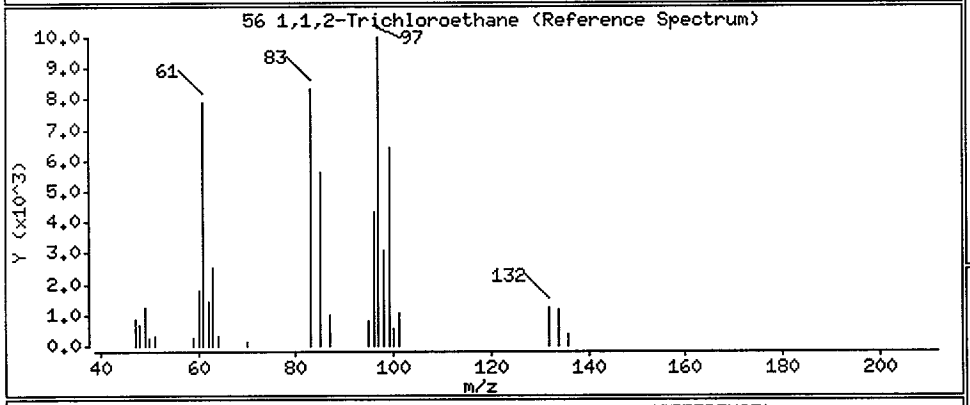
Column diameter: 0.18

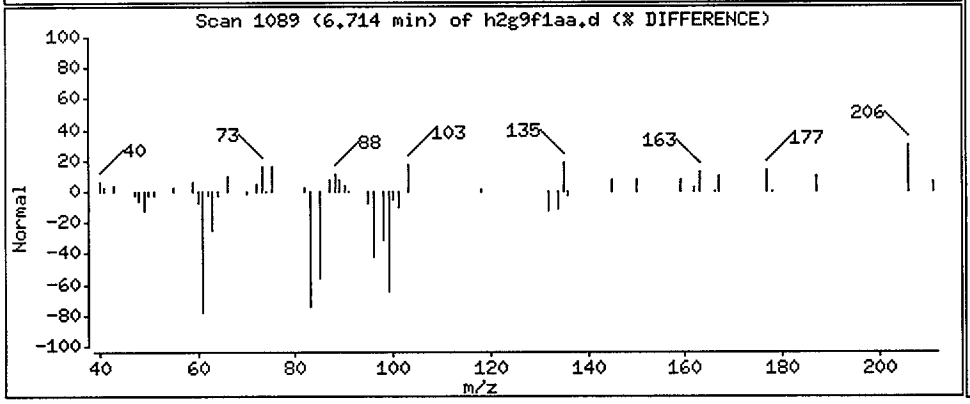
56 1,1,2-Trichloroethane

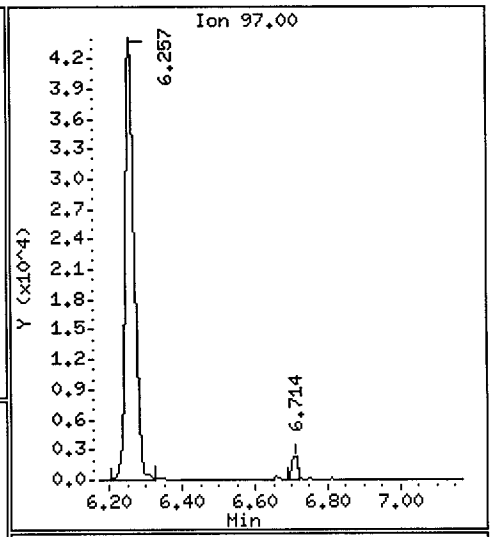
Concentration: 0.0054163 ug

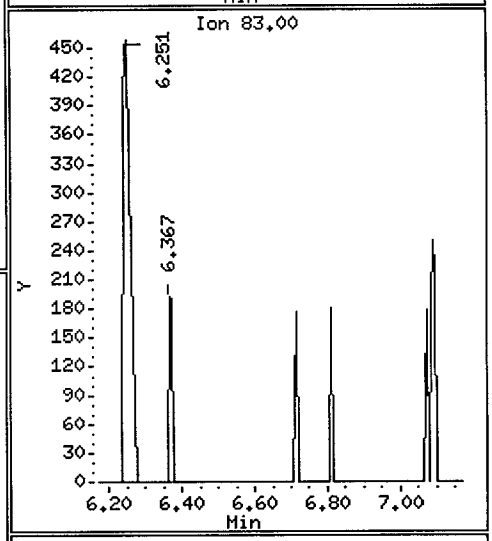


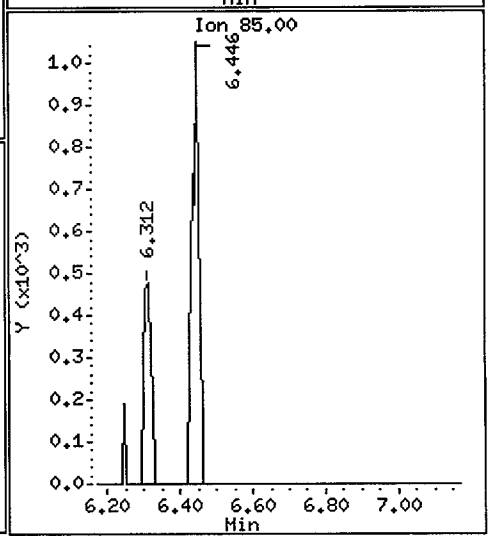












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

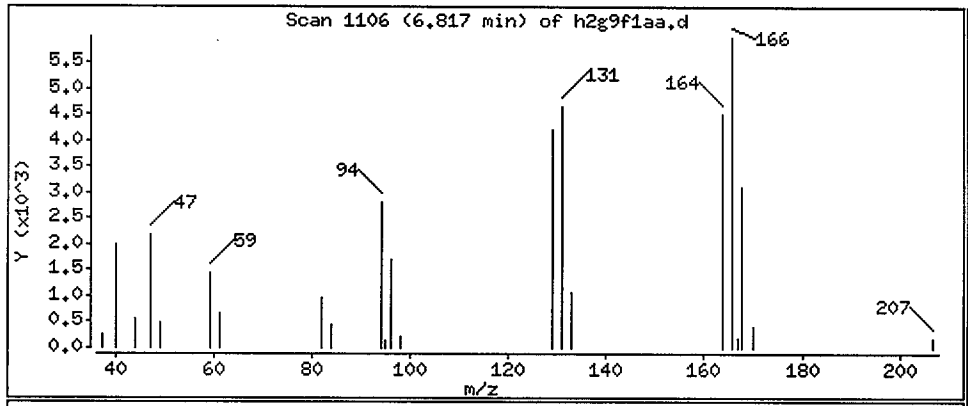
Operator: 22980

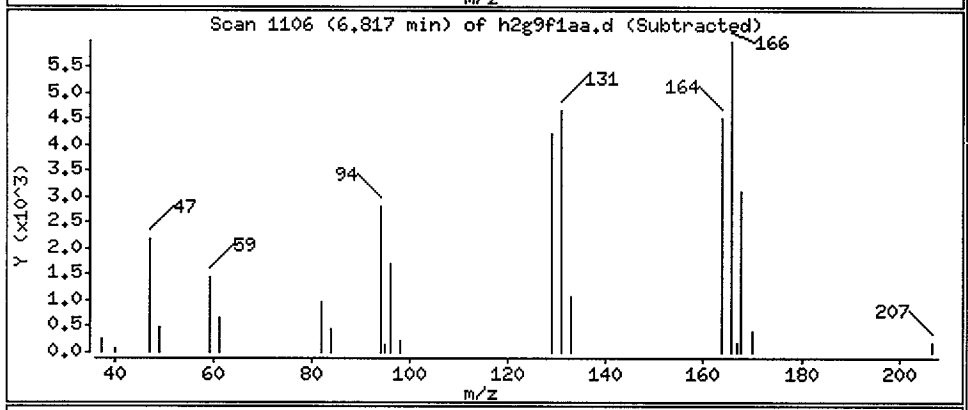
Column phase: J+W 624

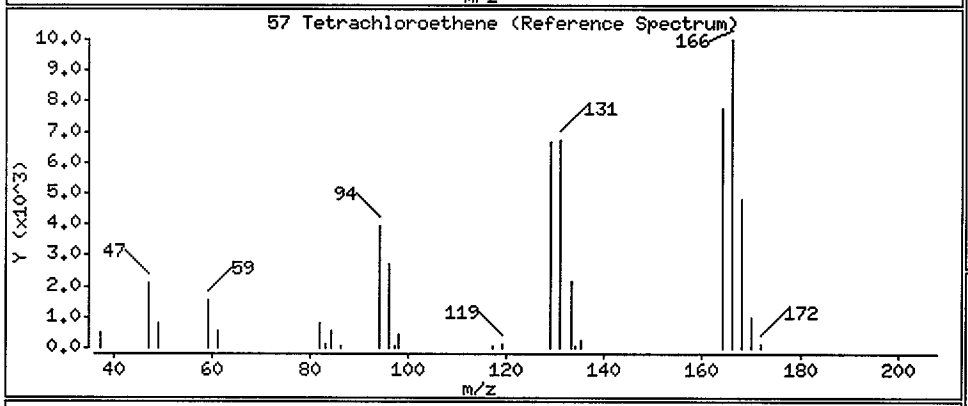
Column diameter: 0.18

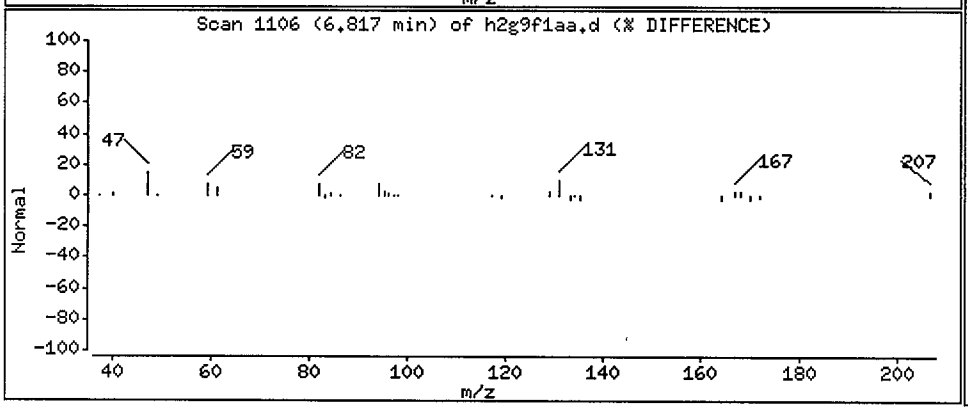
57 Tetrachloroethene

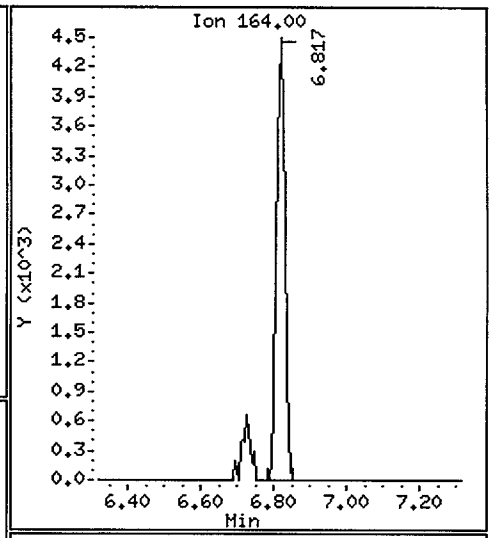
Concentration: 0.0059104 ug

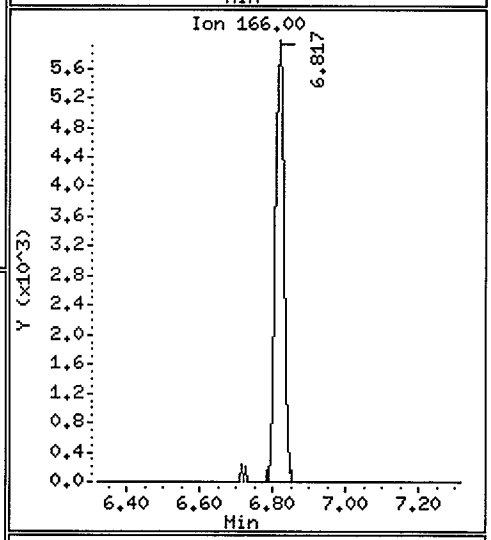


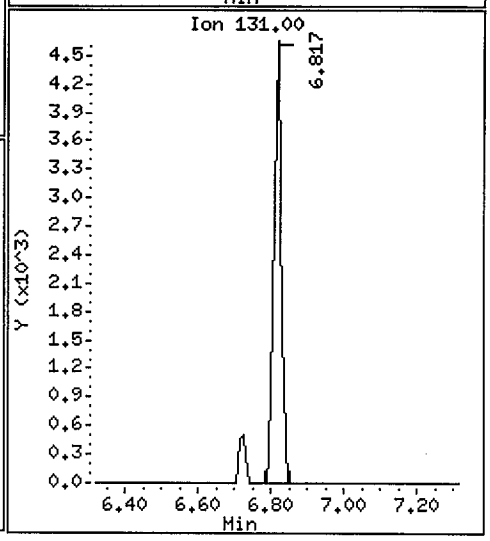












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

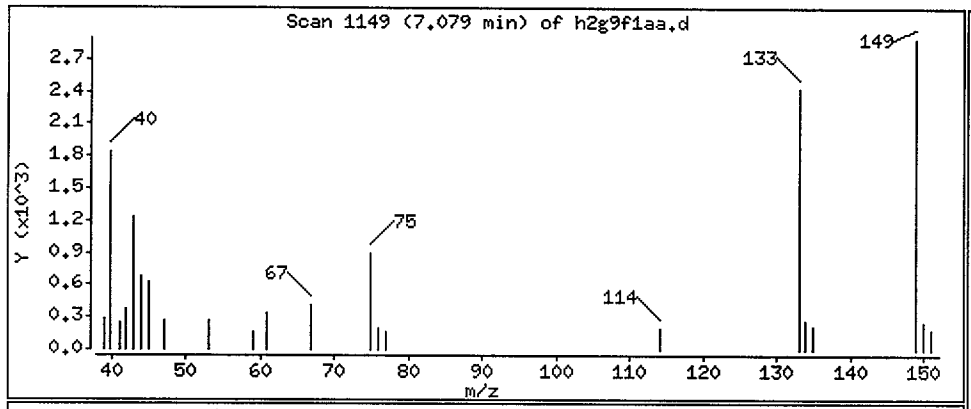
Operator: 22980

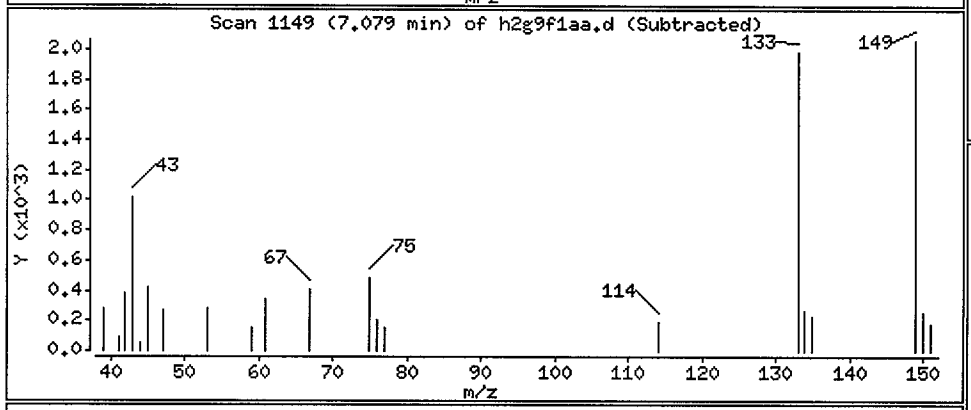
Column phase: J+W 624

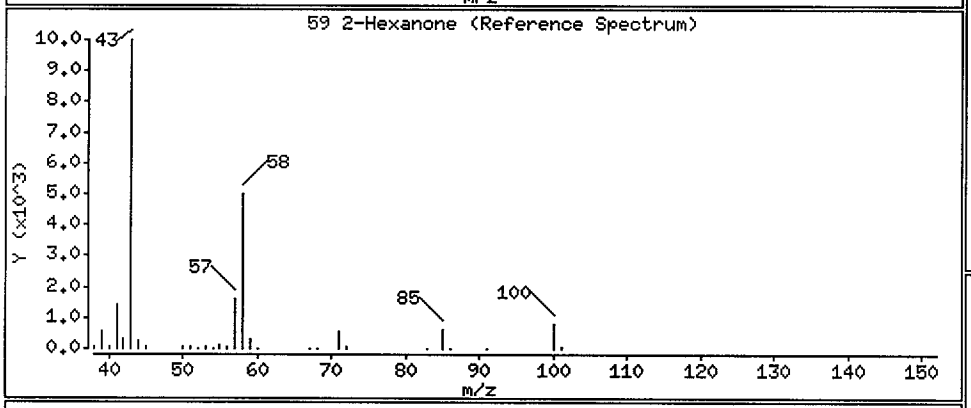
Column diameter: 0.18

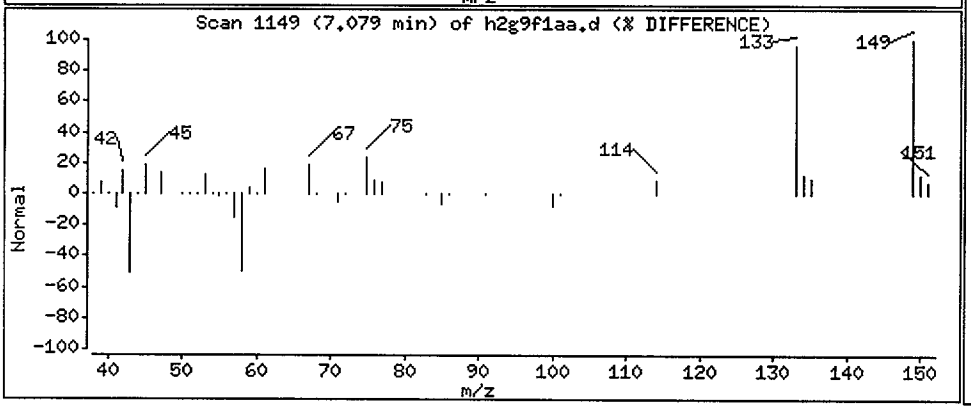
59 2-Hexanone

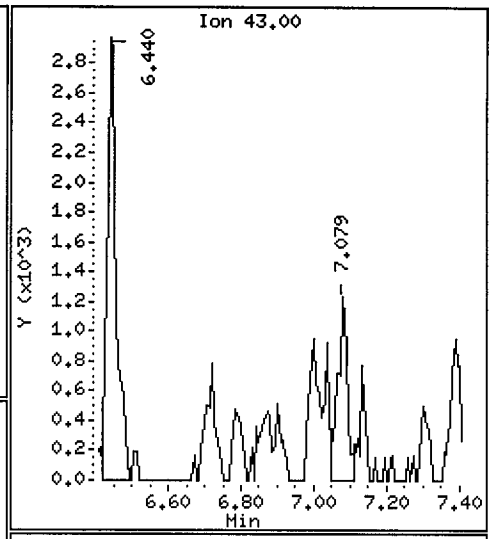
Concentration: 0.012641 ug

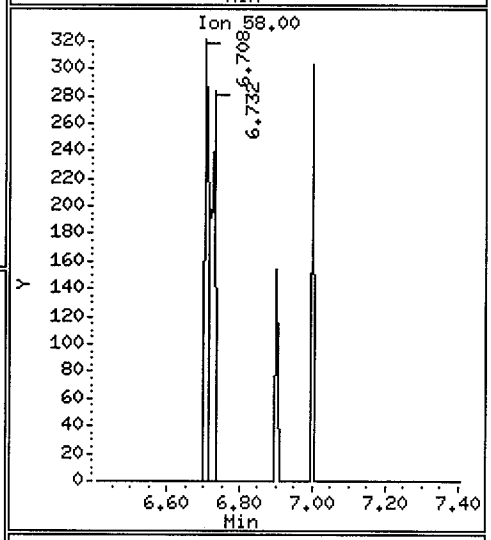


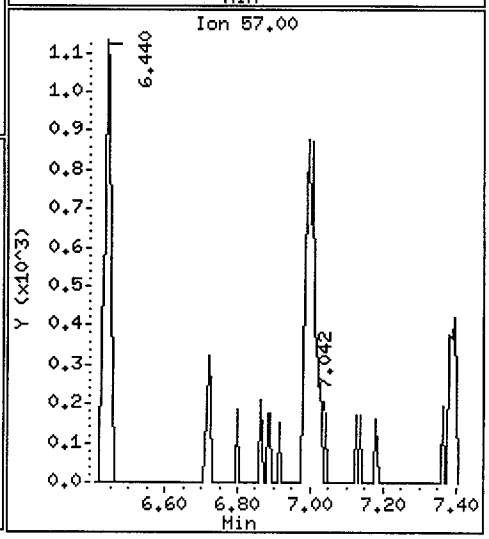












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

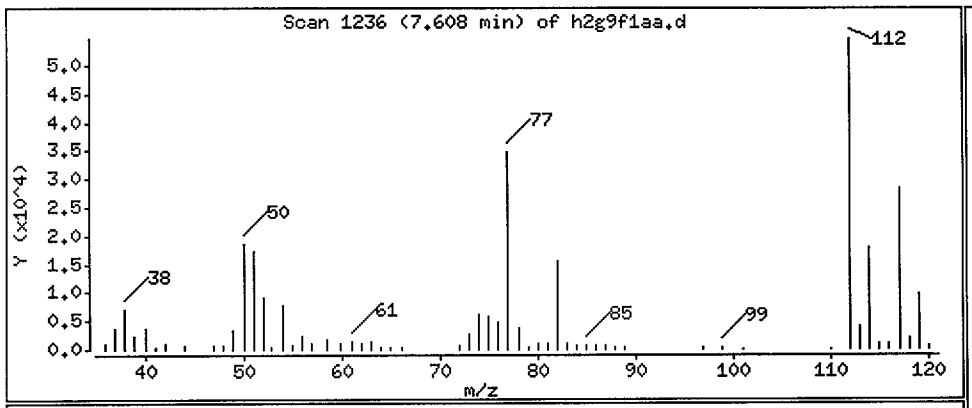
Operator: 22980

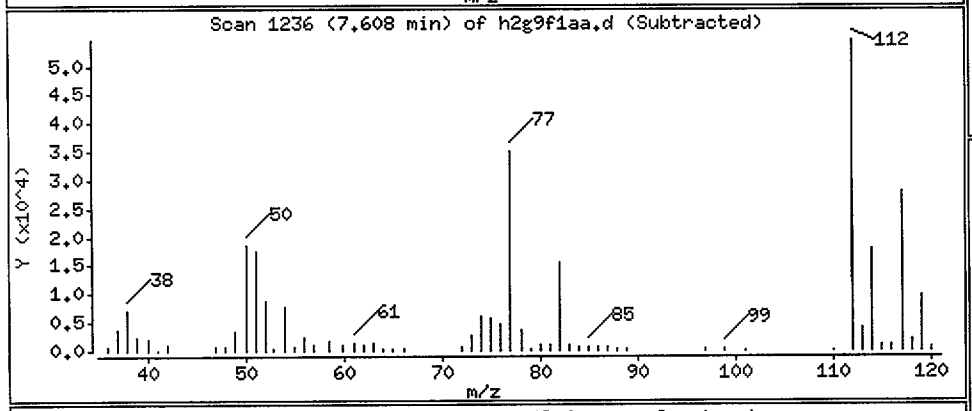
Column phase: J+W 624

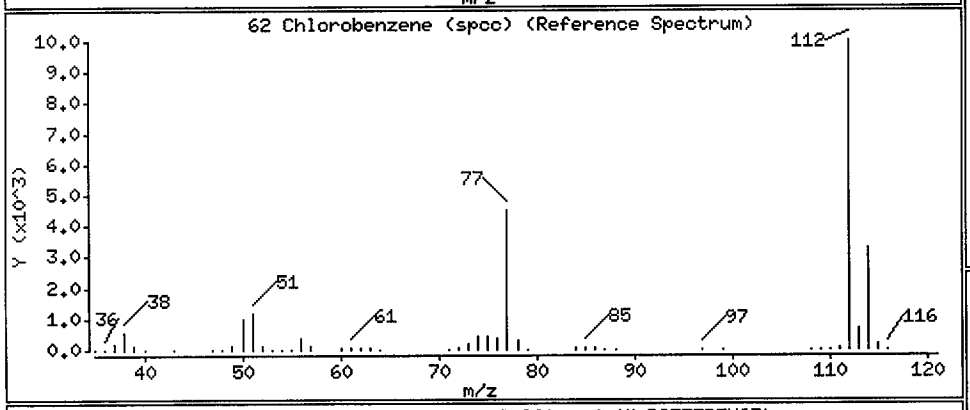
Column diameter: 0.18

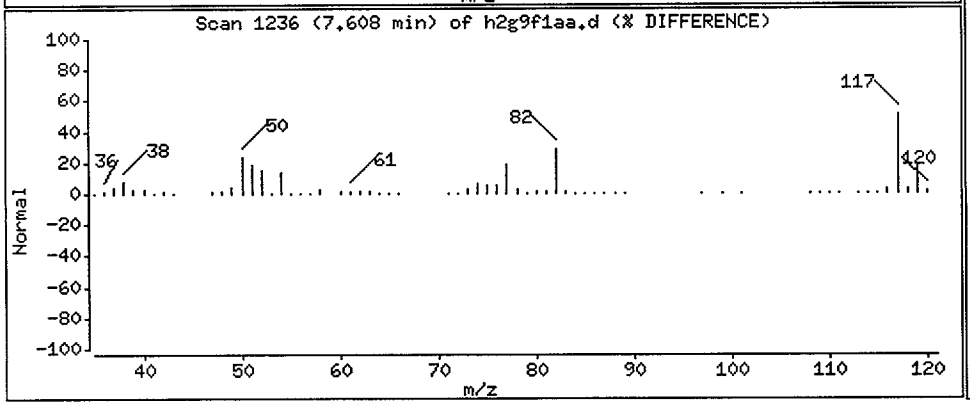
62 Chlorobenzene (spcc)

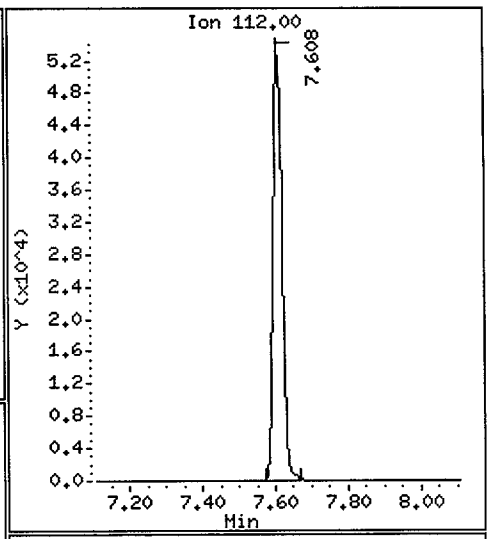
Concentration: 0.031199 ug

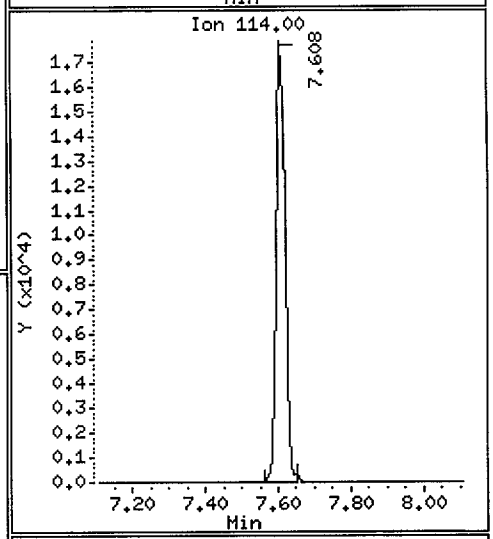


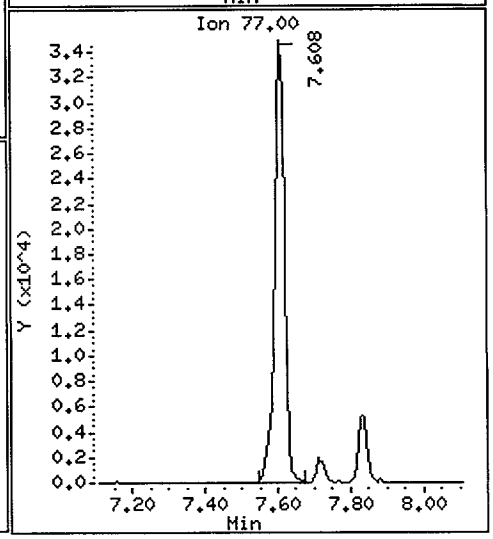












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

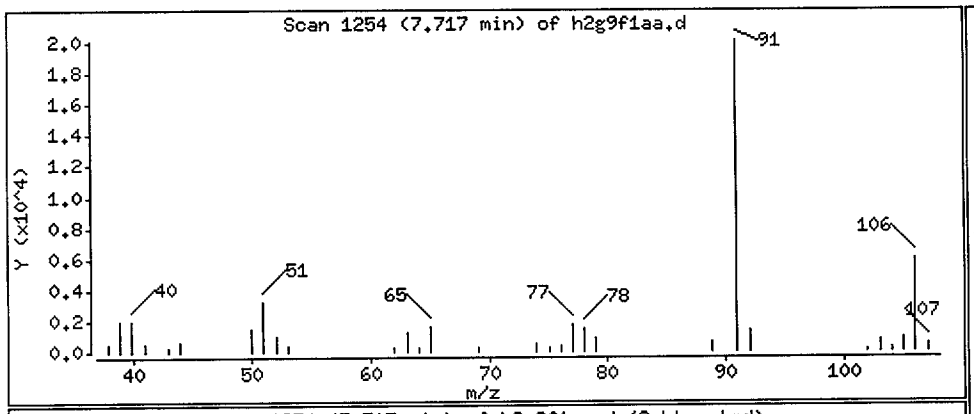
Operator: 22980

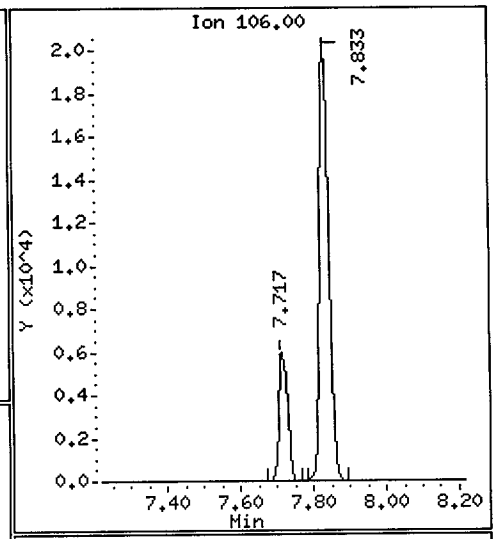
Column phase: J+W 624

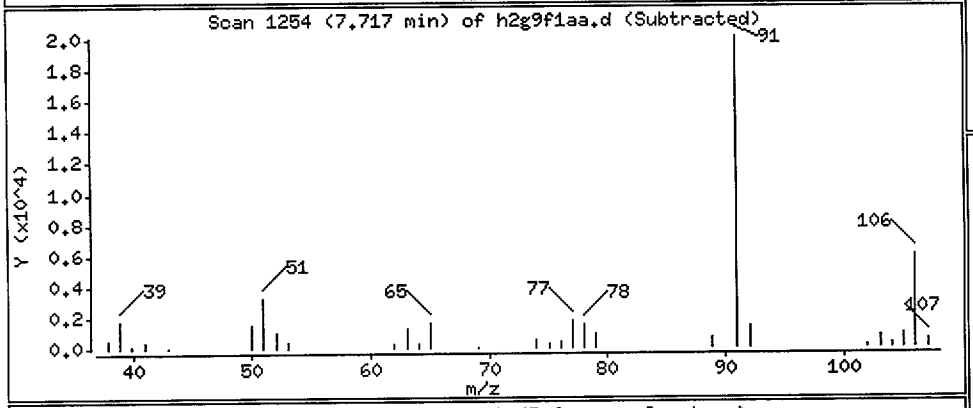
Column diameter: 0.18

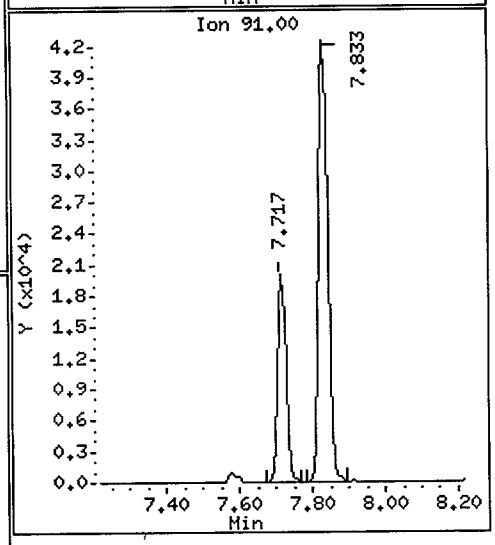
64 Ethylbenzene (ccc)

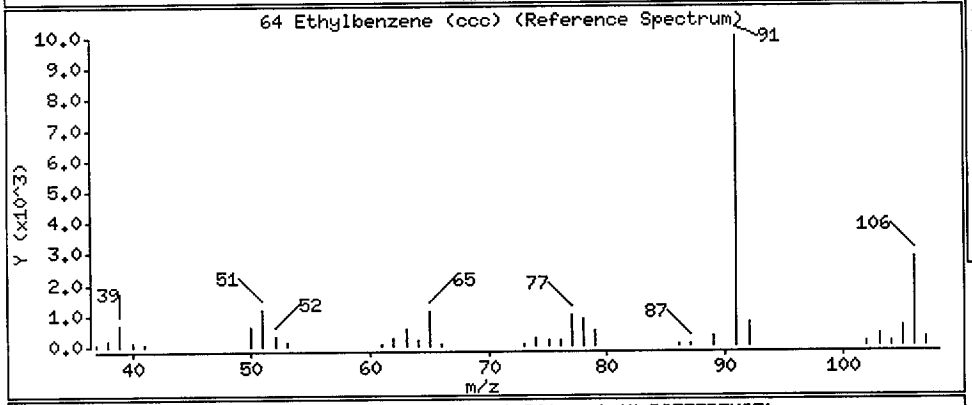
Concentration: 0.0048869 ug

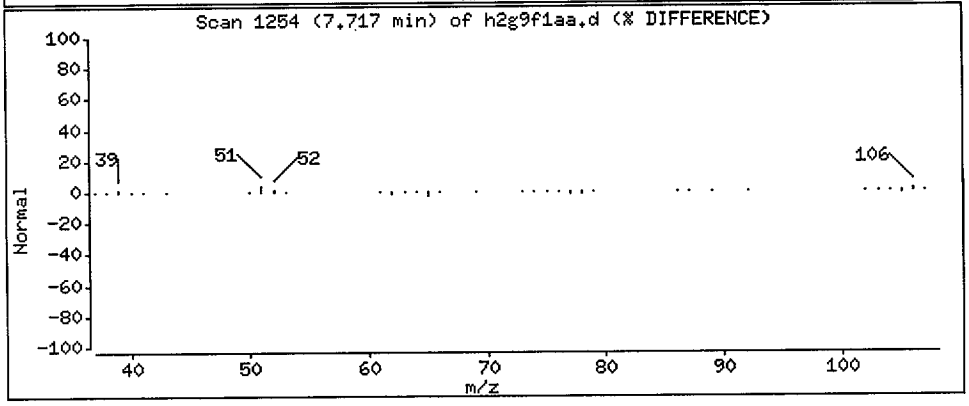












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

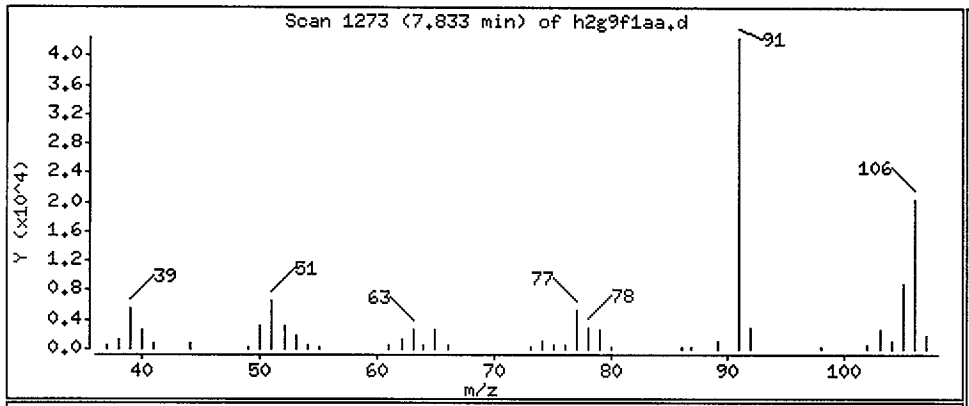
Operator: 22980

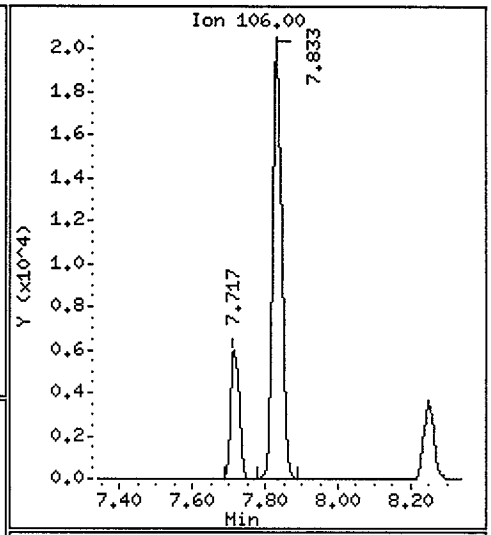
Column phase: J+W 624

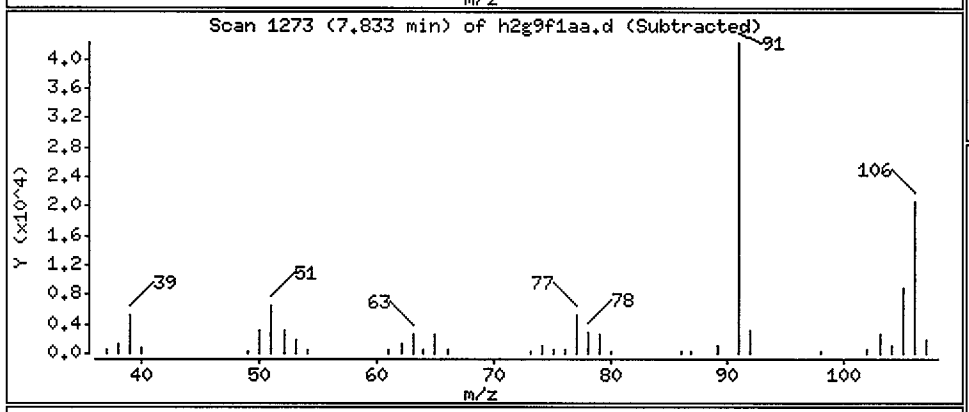
Column diameter: 0.18

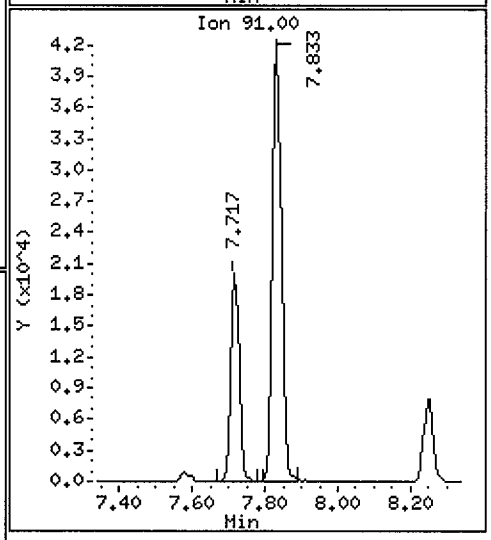
65 m&p-Xylene

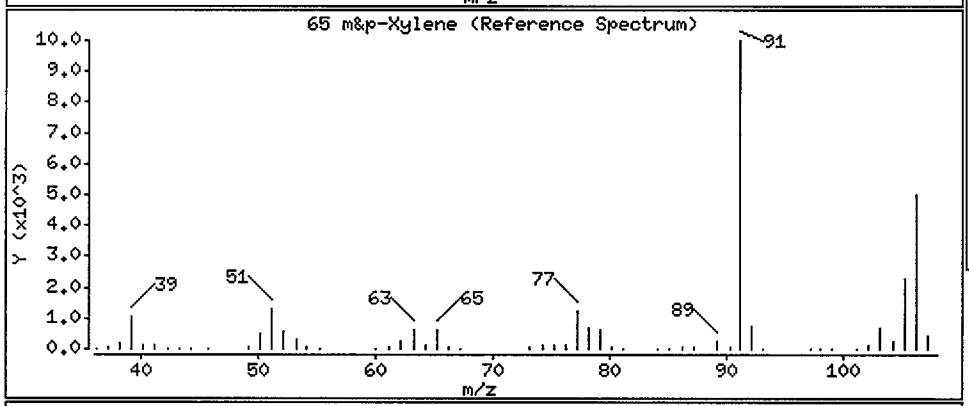
Concentration: 0.015290 ug

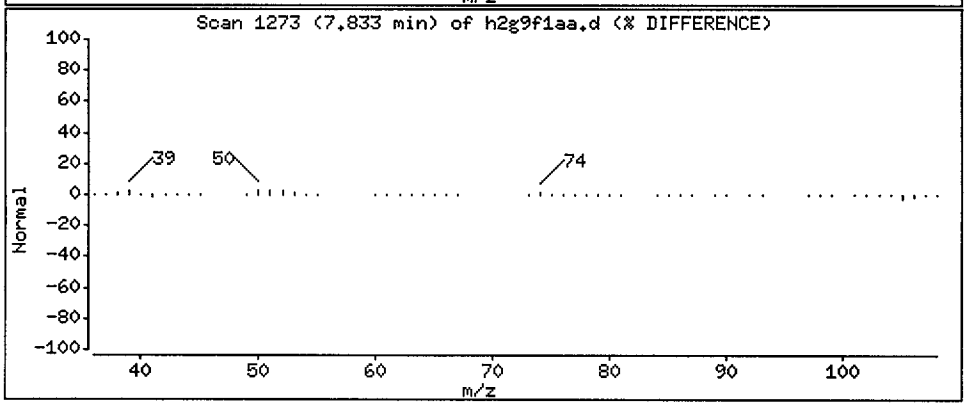












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

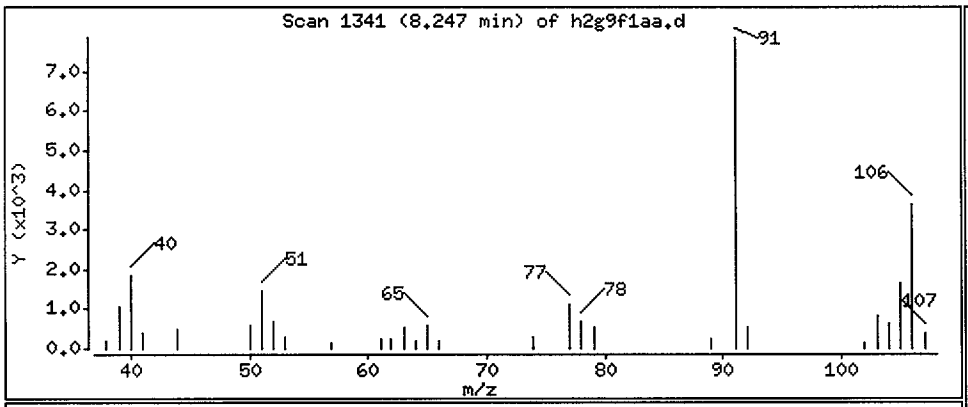
Operator: 22980

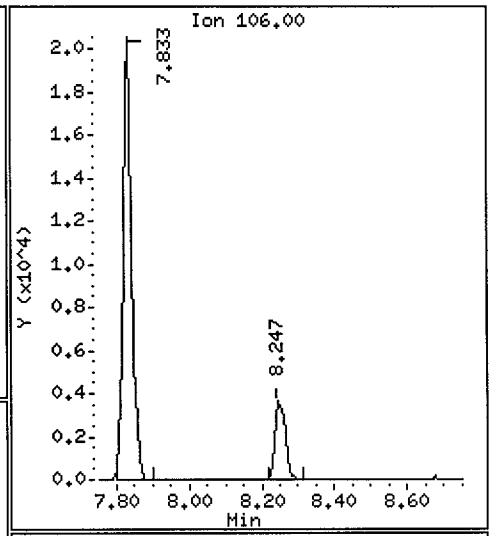
Column phase: J+W 624

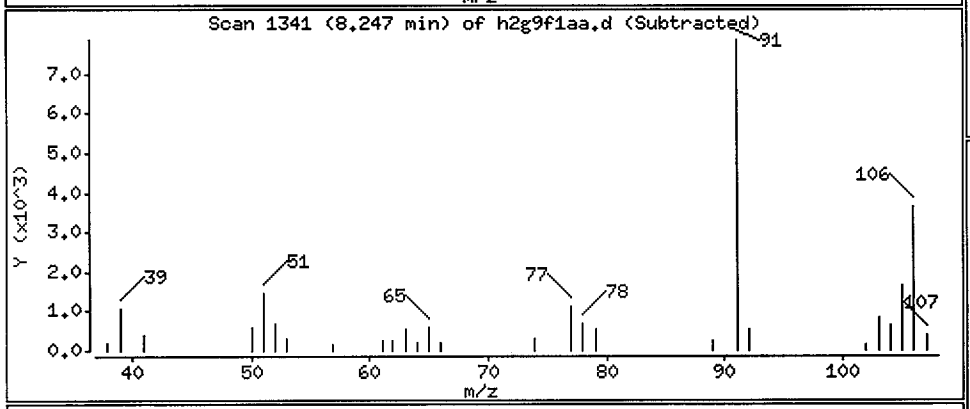
Column diameter: 0.18

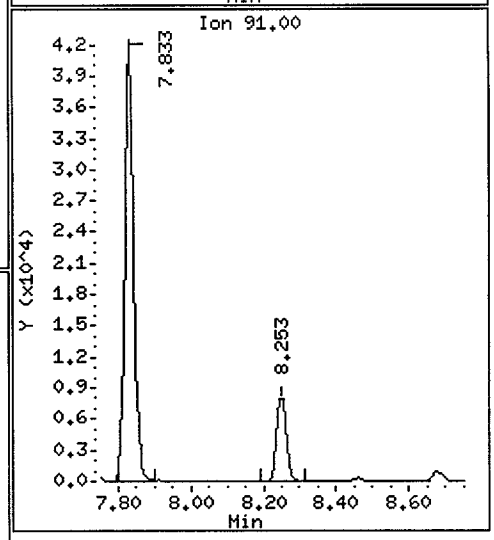
66 o-Xylene

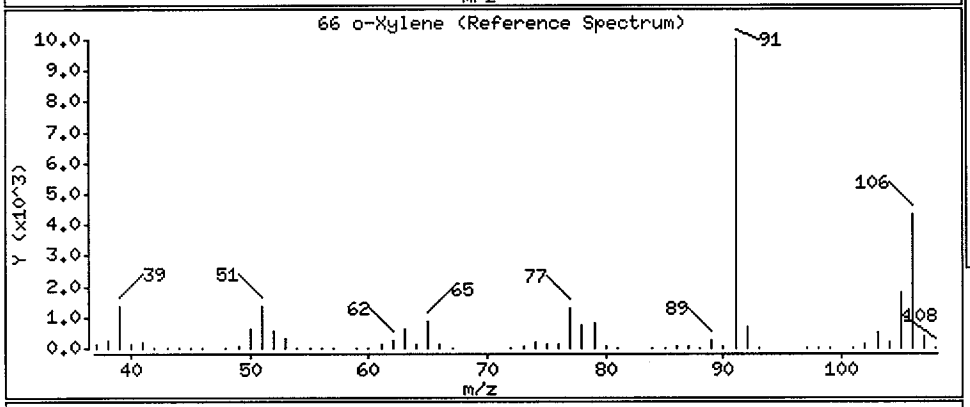
Concentration: 0.0035583 ug

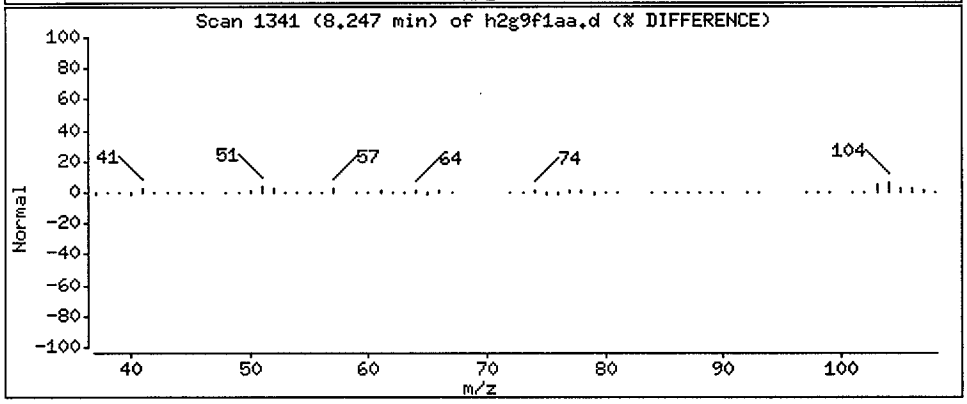












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

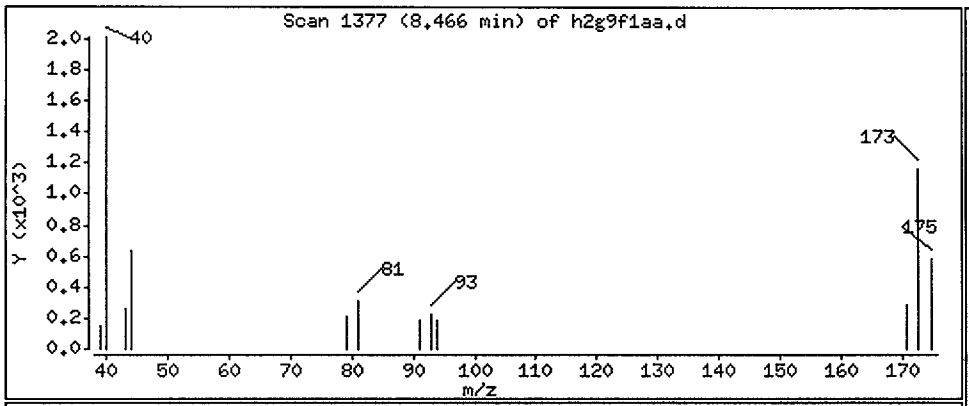
Operator: 22980

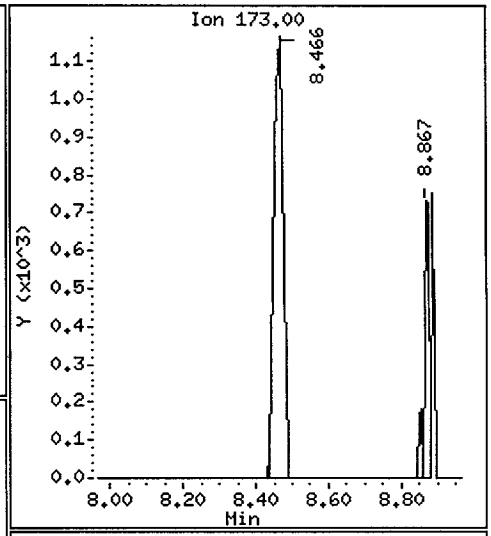
Column phase: J+W 624

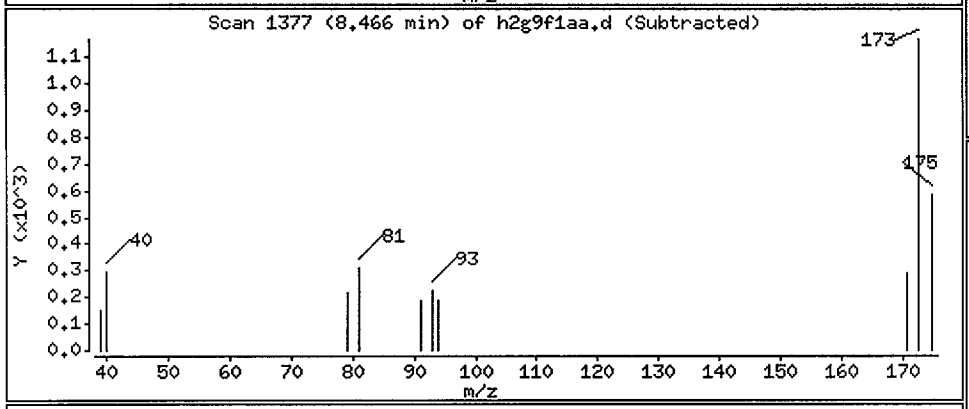
Column diameter: 0.18

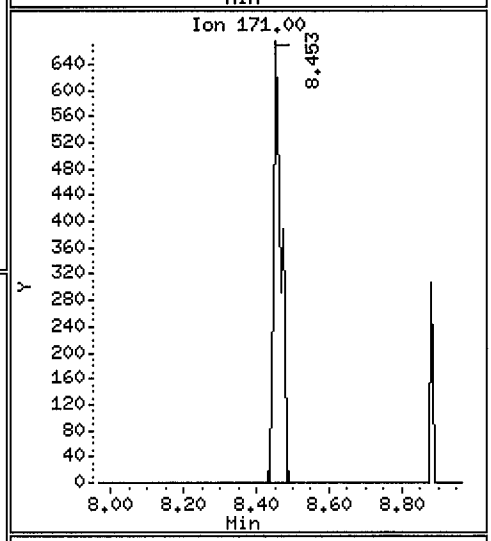
68 Bromoform (spcc)

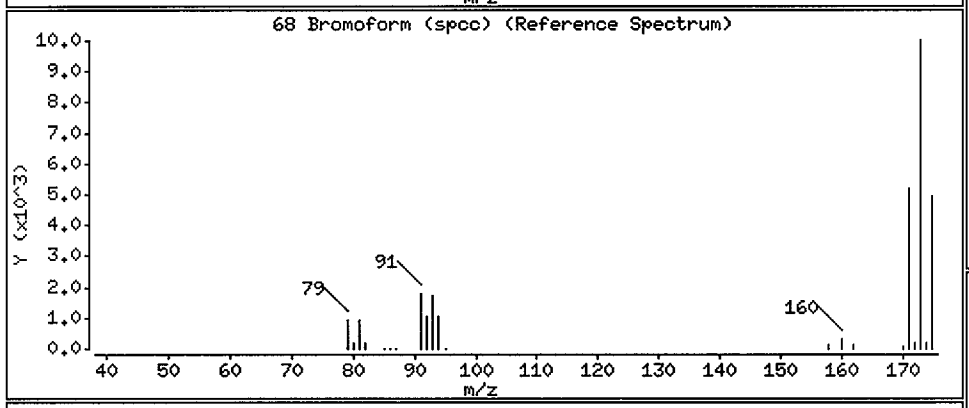
Concentration: 0.0078651 ug

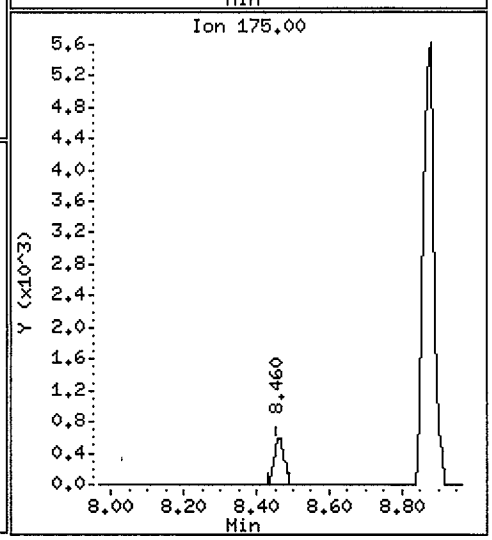


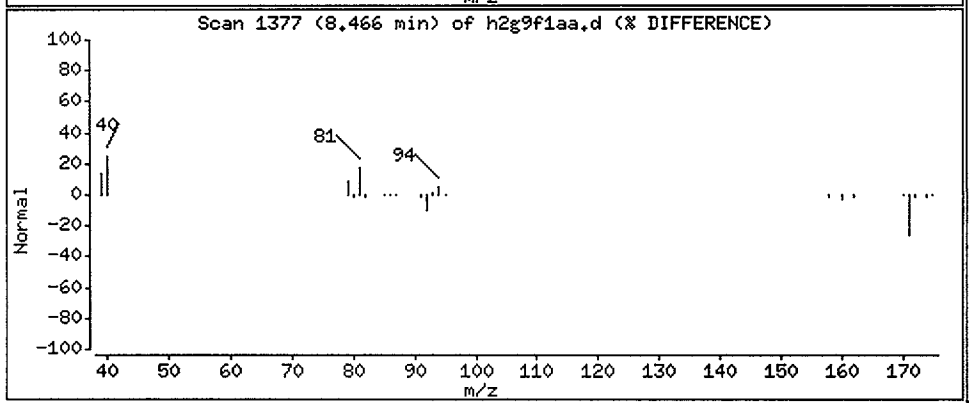












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

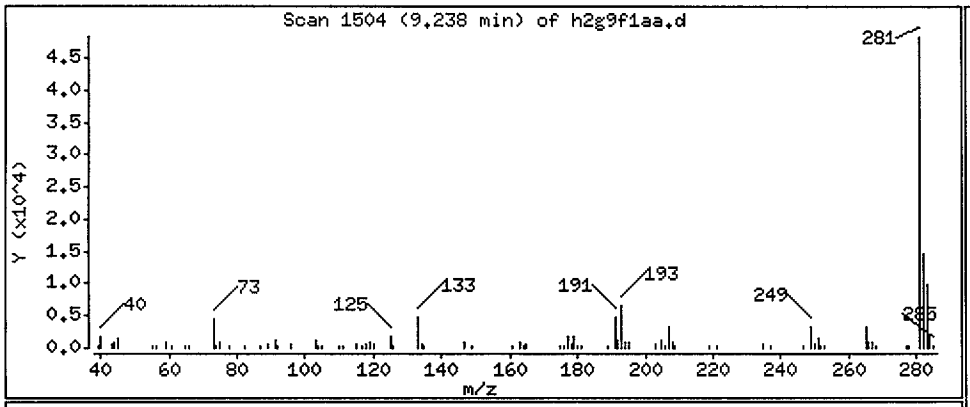
Operator: 22980

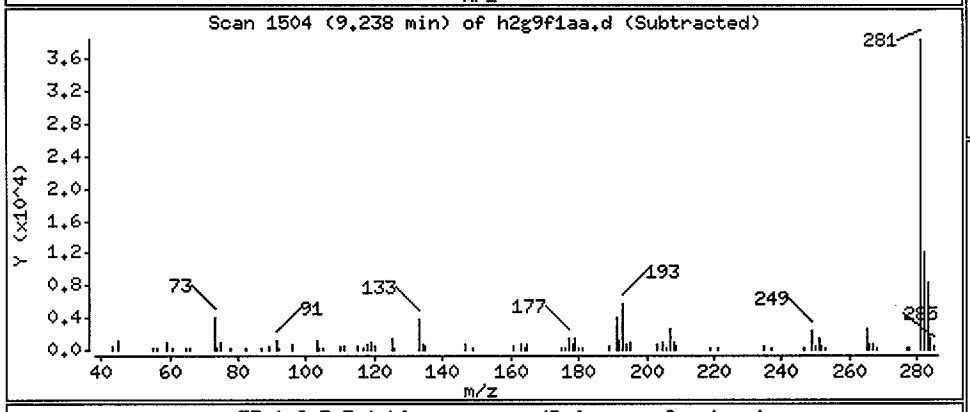
Column phase: J+W 624

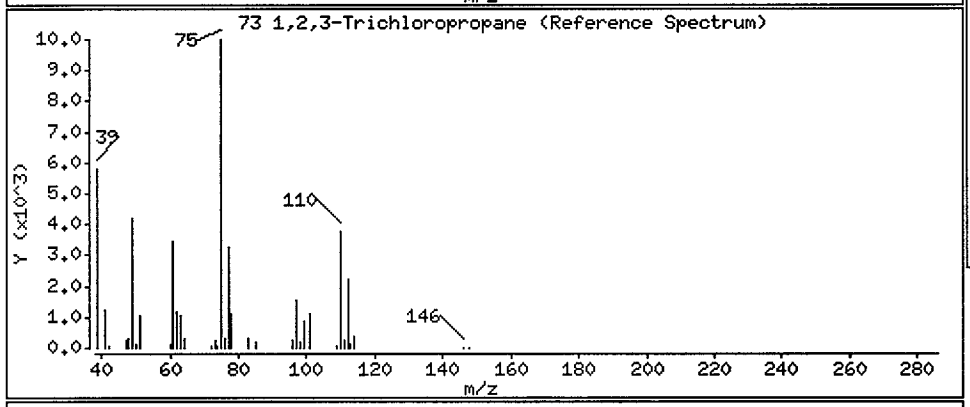
Column diameter: 0.18

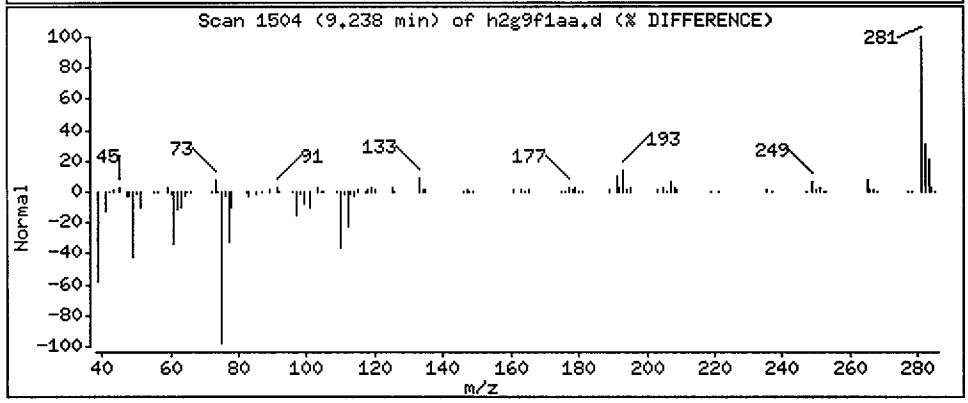
73 1,2,3-Trichloropropane

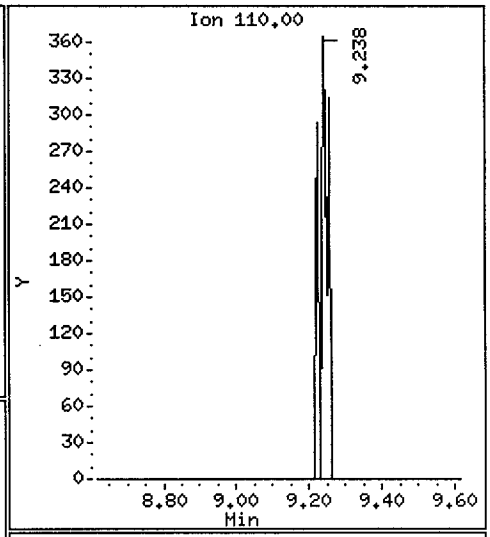
Concentration: 0.0061394 ug

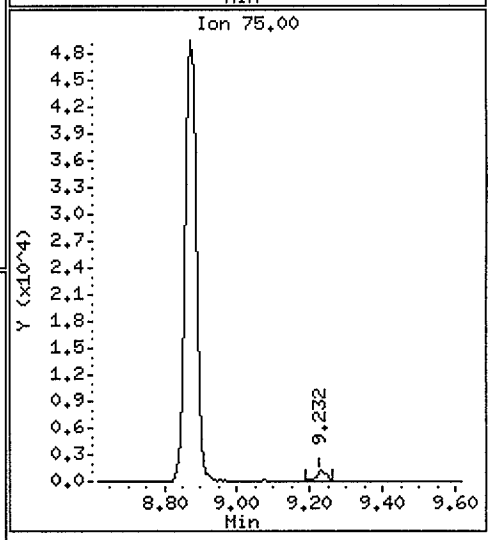












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

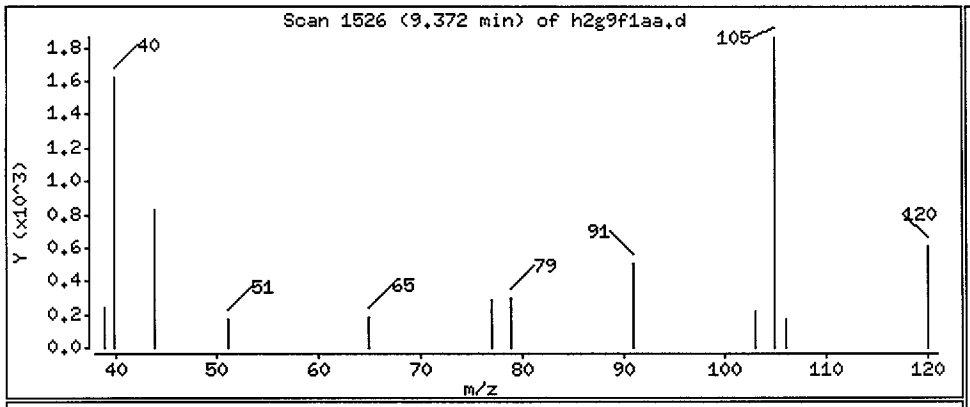
Operator: 22980

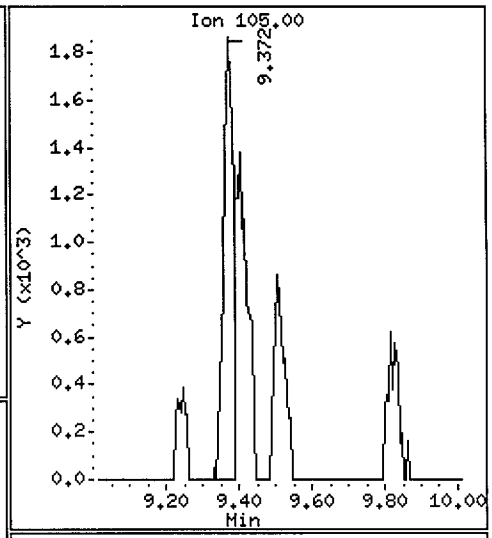
Column phase: J+W 624

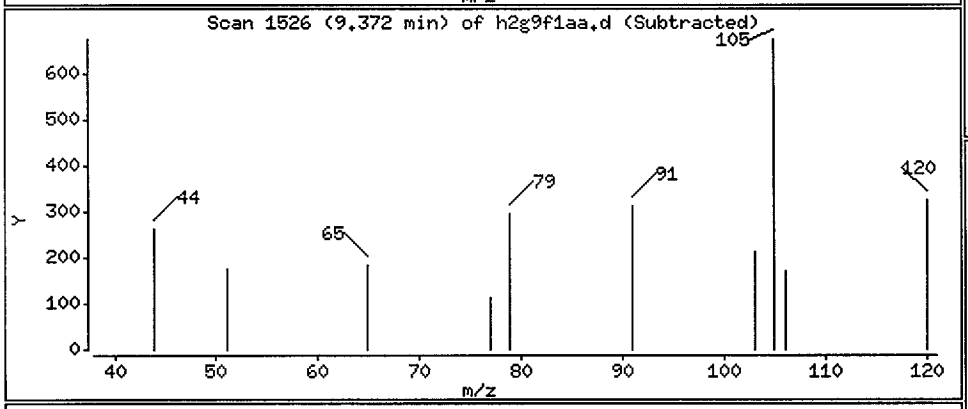
Column diameter: 0.18

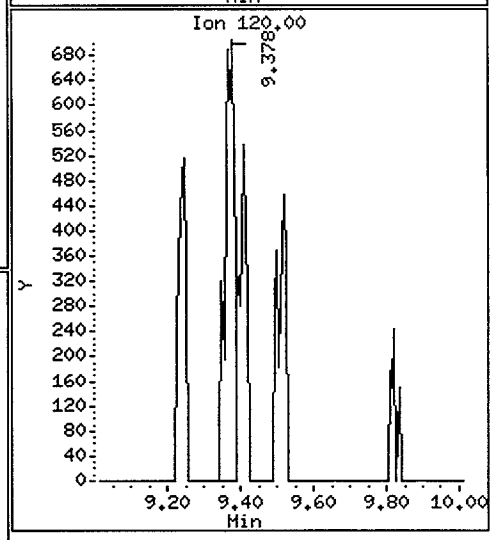
77 1,3,5-Trimethylbenzene

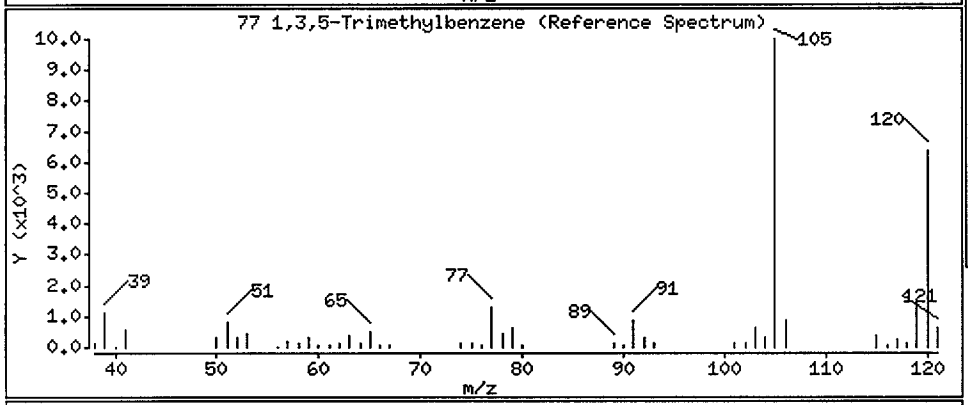
Concentration: 0.0010128 ug

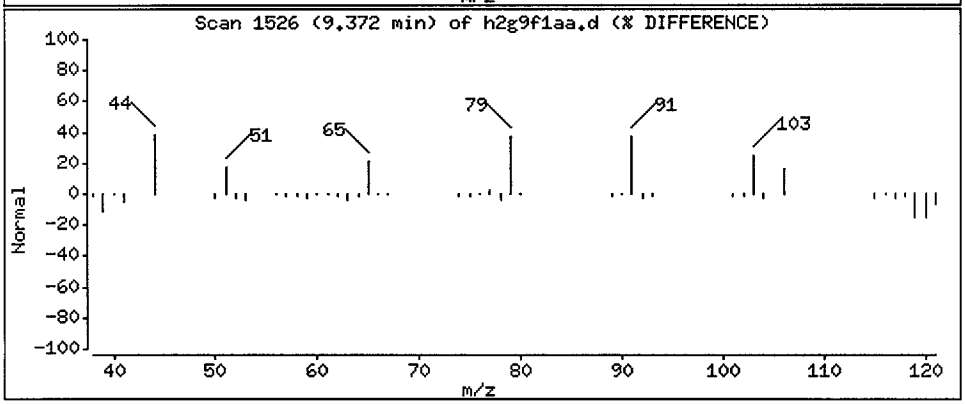












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

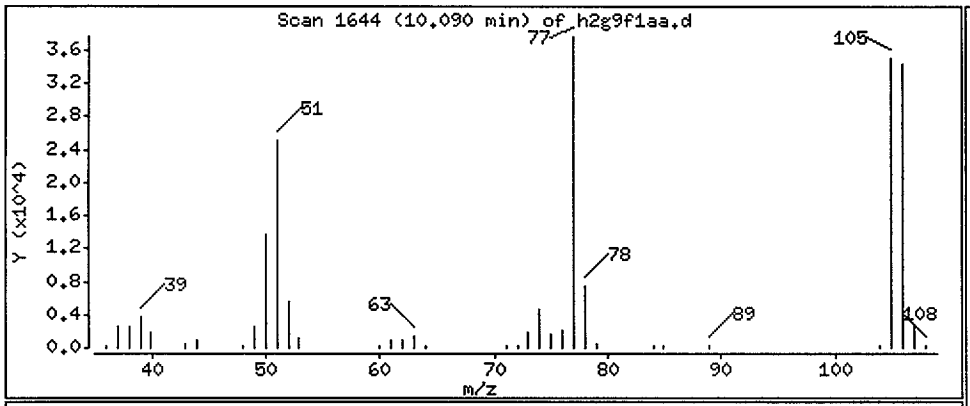
Operator: 22980

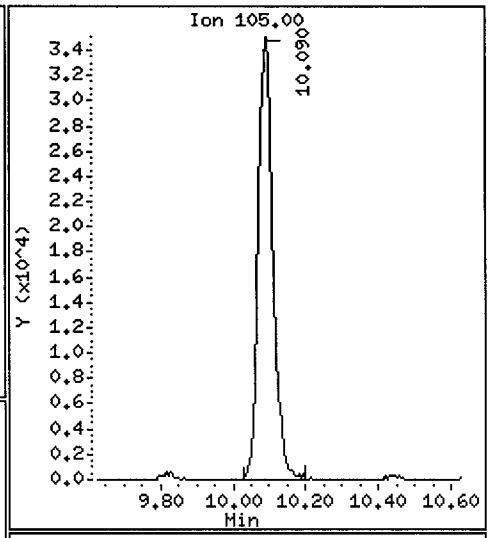
Column phase: J+W 624

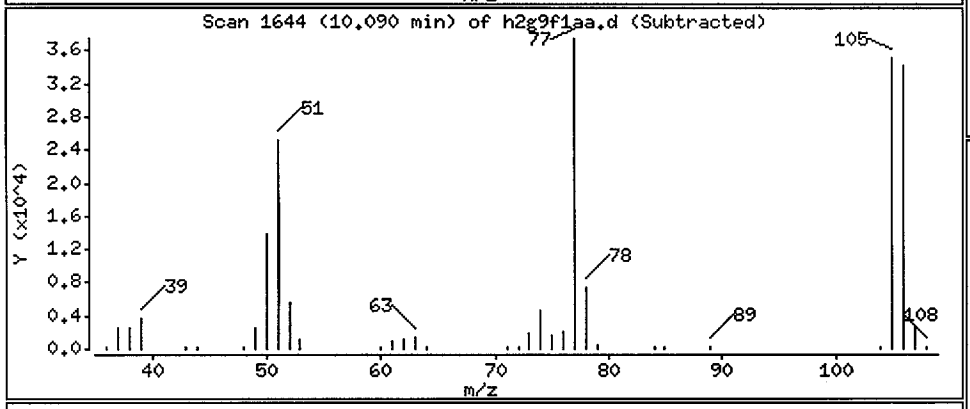
Column diameter: 0.18

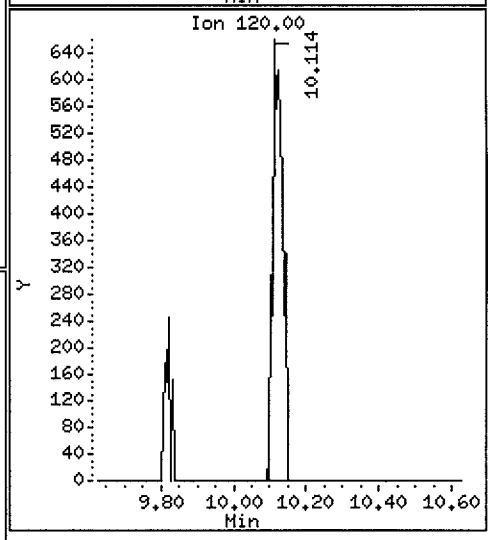
80 1,2,4-Trimethylbenzene

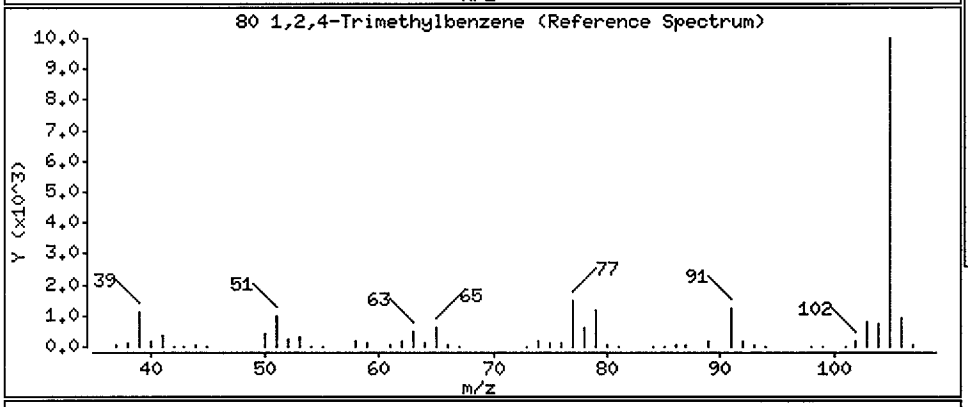
Concentration: 0.030029 ug

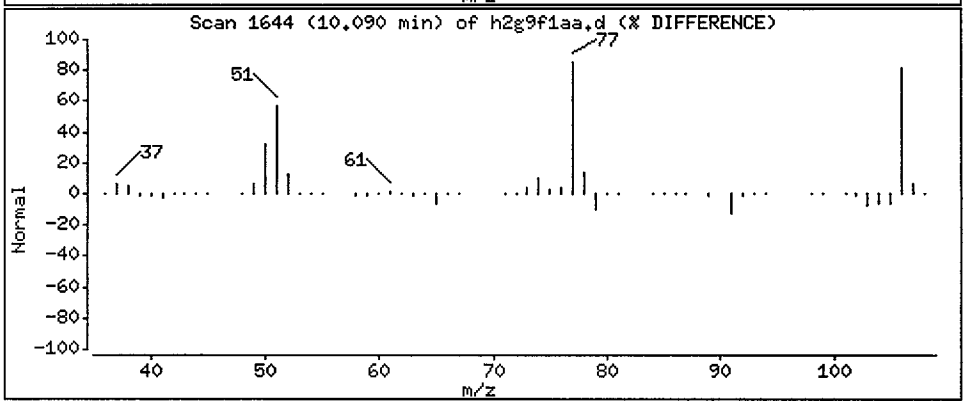












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

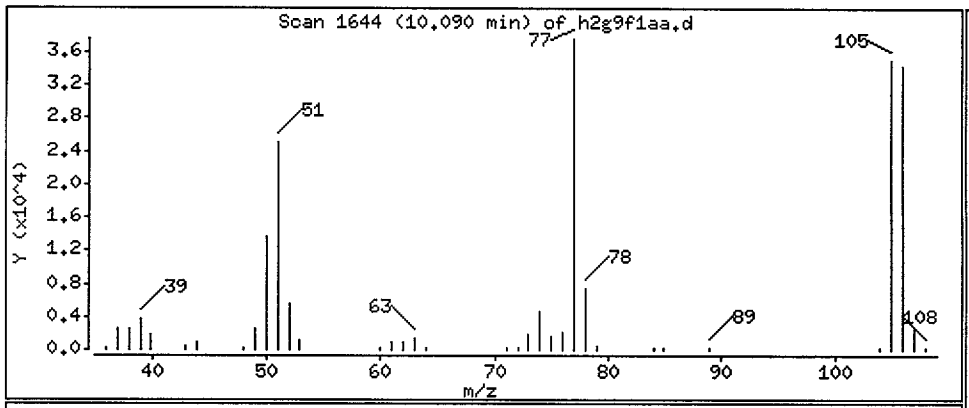
Operator: 22980

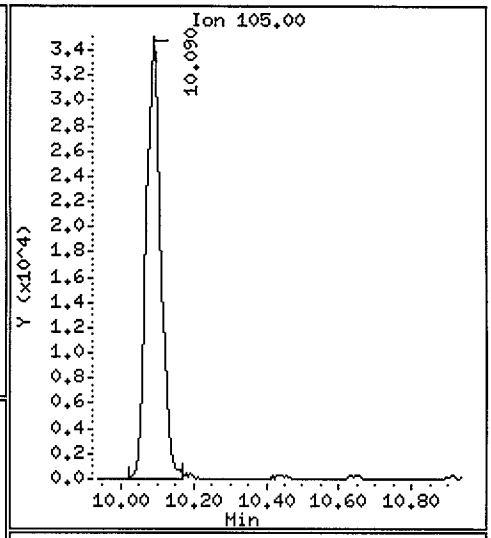
Column phase: J+W 624

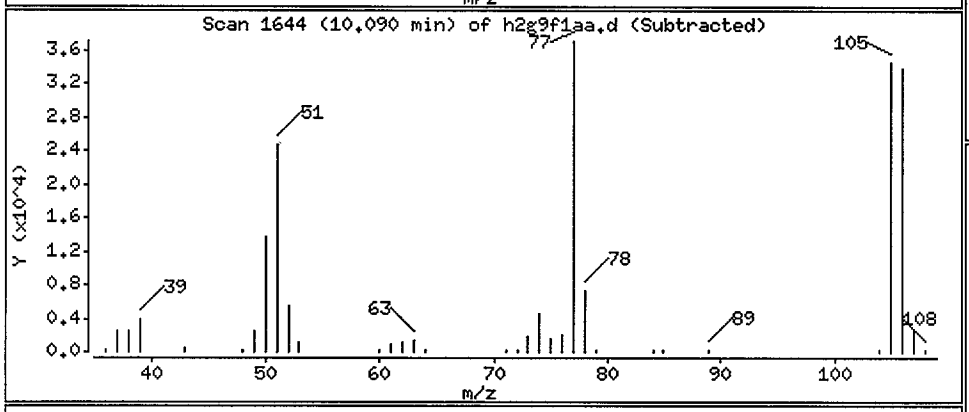
Column diameter: 0.18

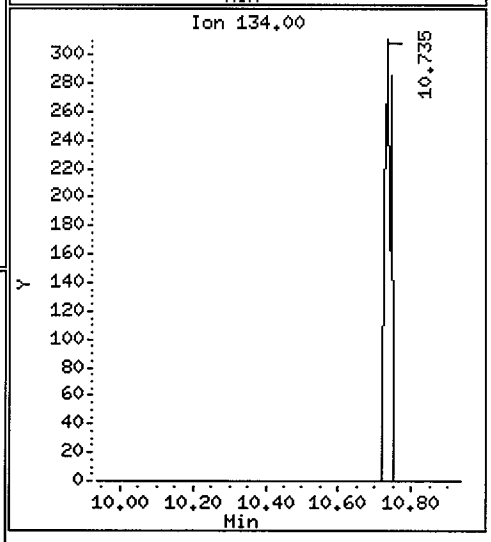
81 sec-Butylbenzene

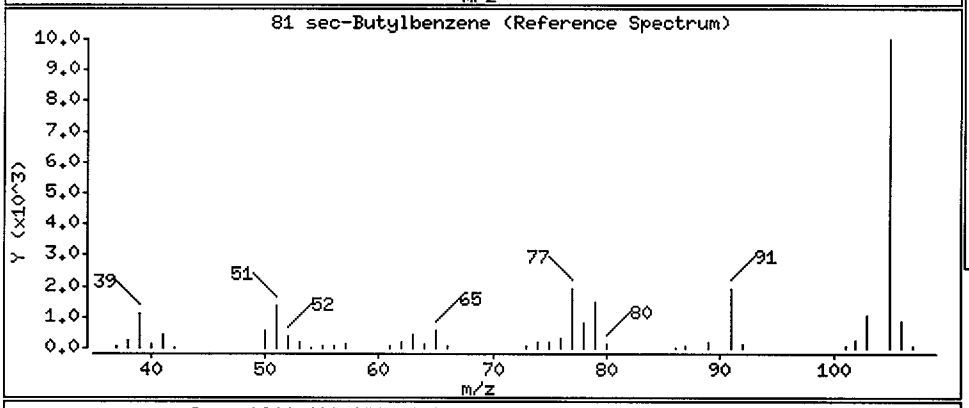
Concentration: 0.016905 ug

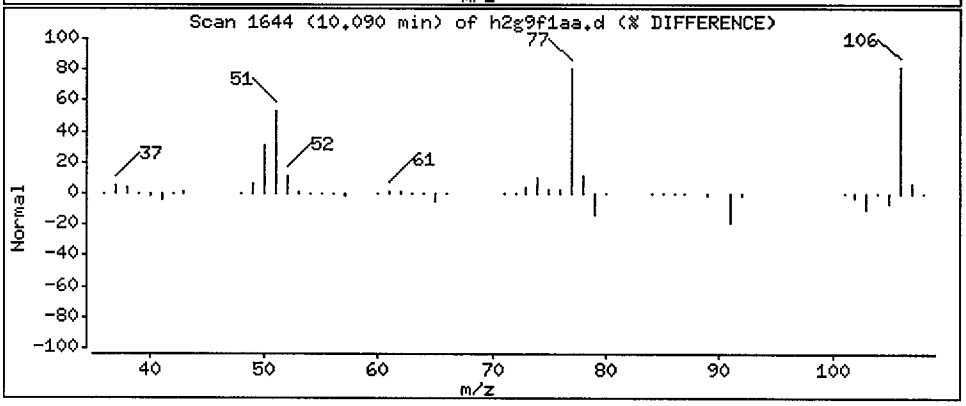












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

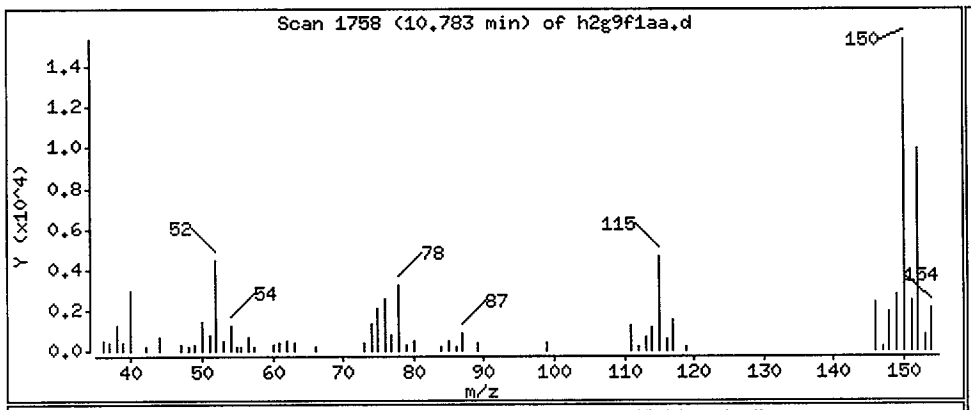
Operator: 22980

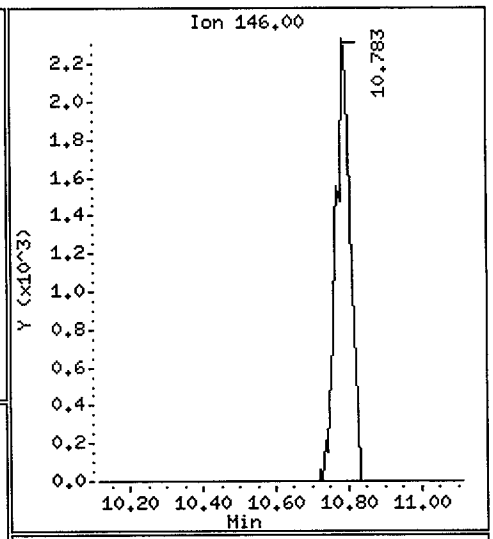
Column phase: J+W 624

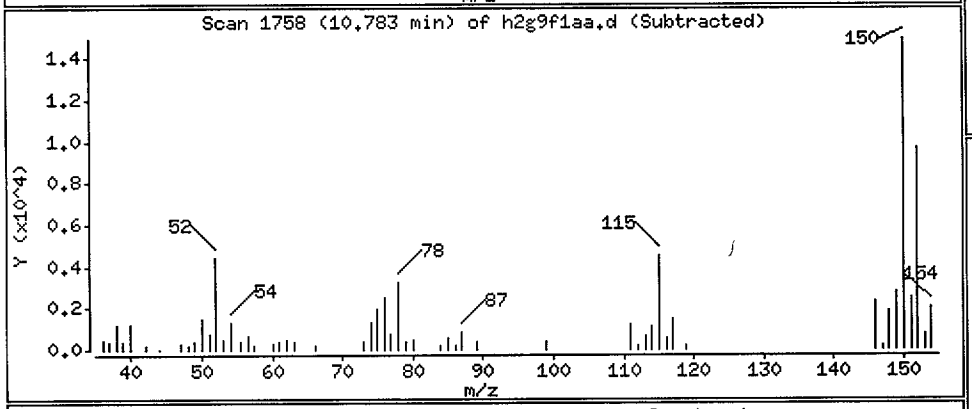
Column diameter: 0.18

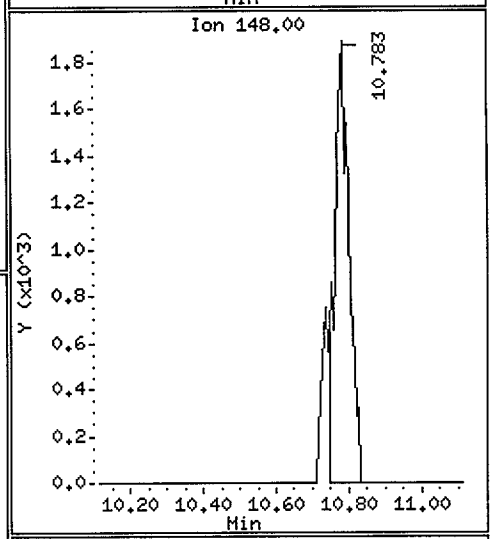
82 1,3-Dichlorobenzene

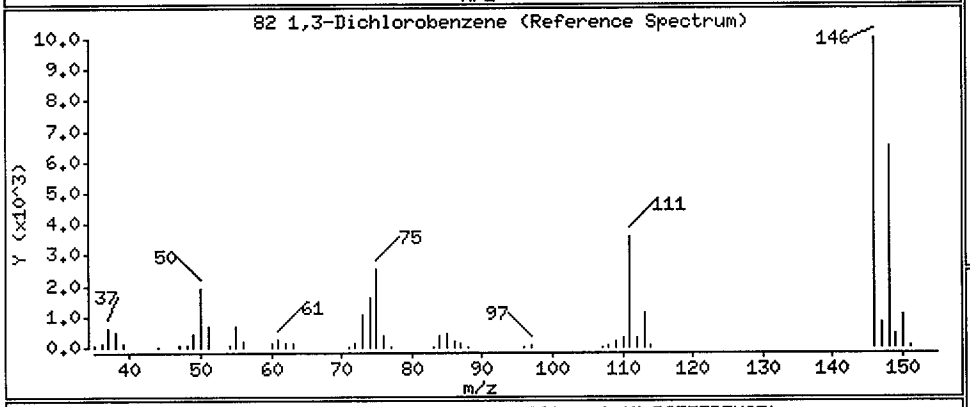
Concentration: 0.0038383 ug

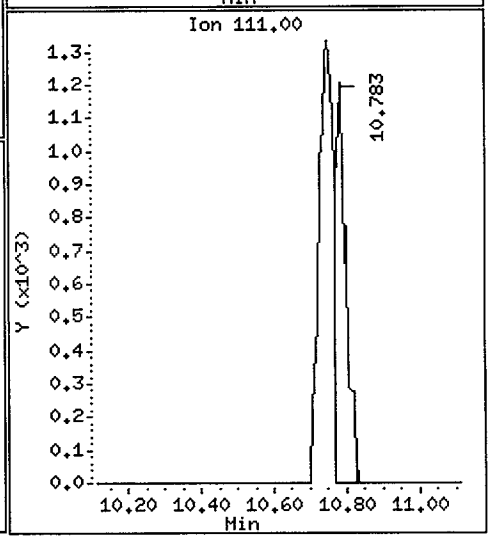


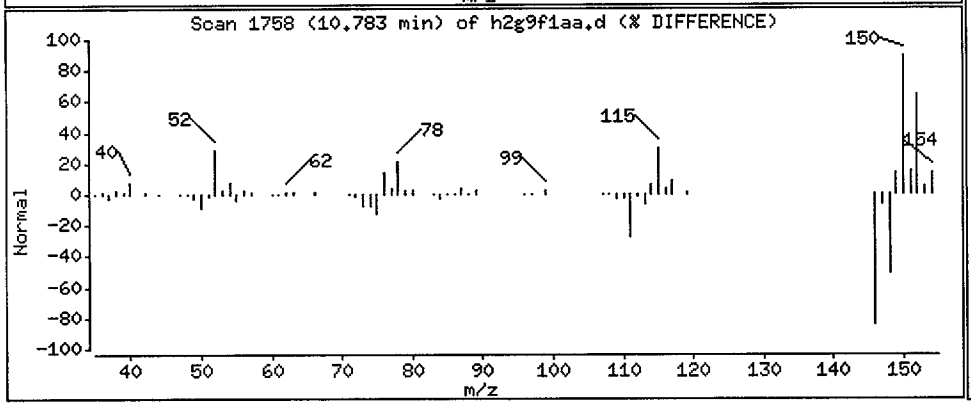












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

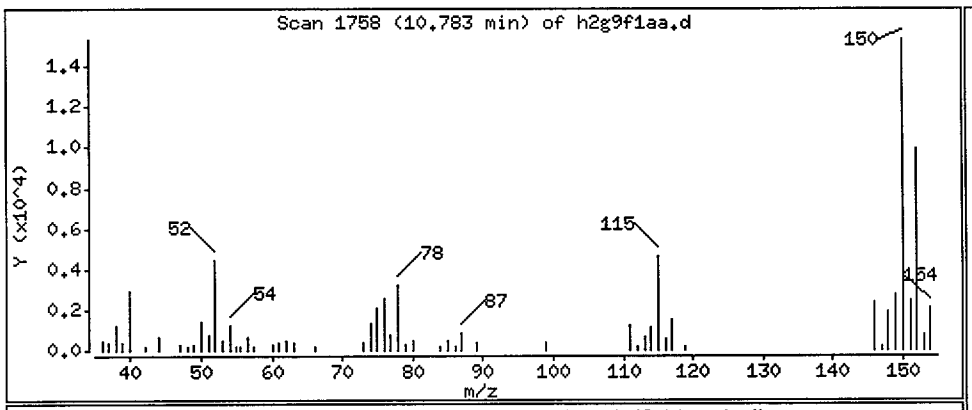
Operator: 22980

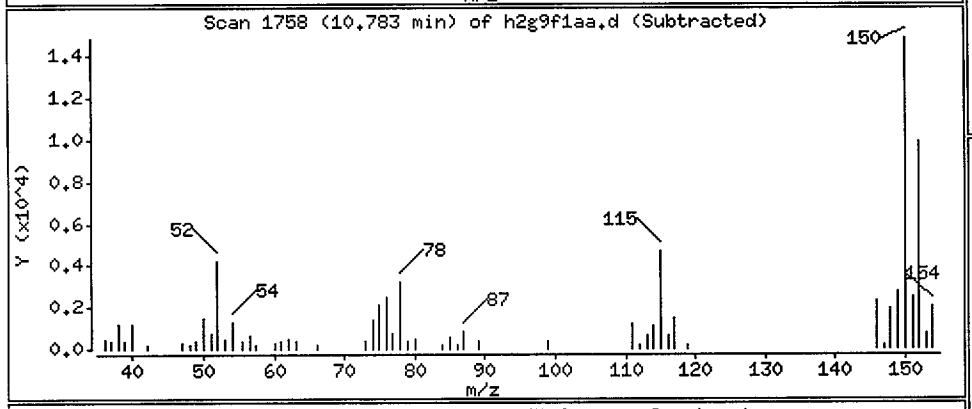
Column phase: J+W 624

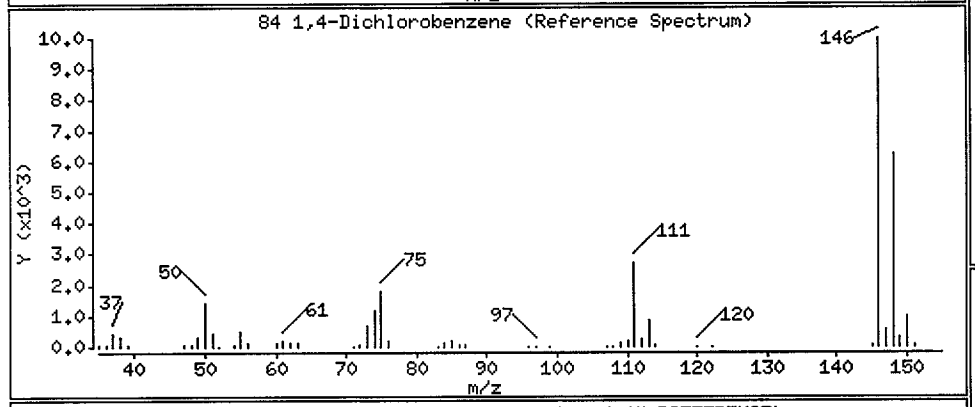
Column diameter: 0.18

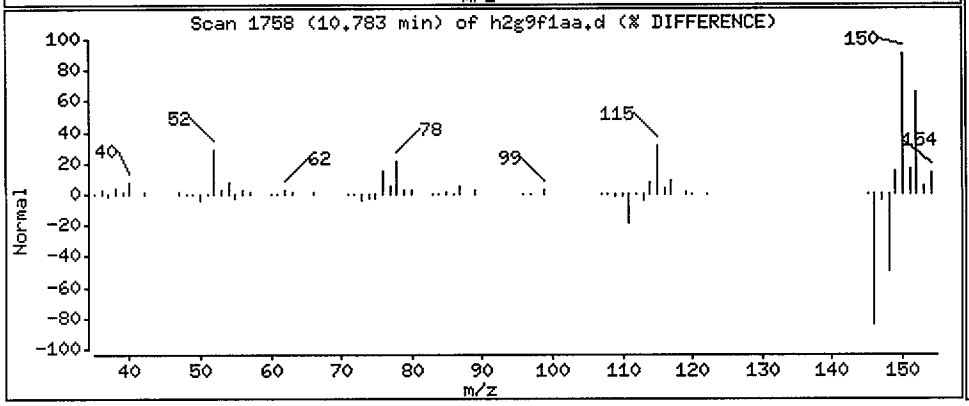
84 1,4-Dichlorobenzene

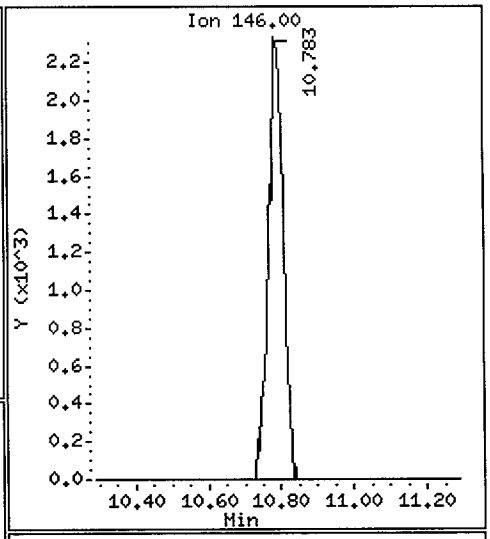
Concentration: 0.0042382 ug

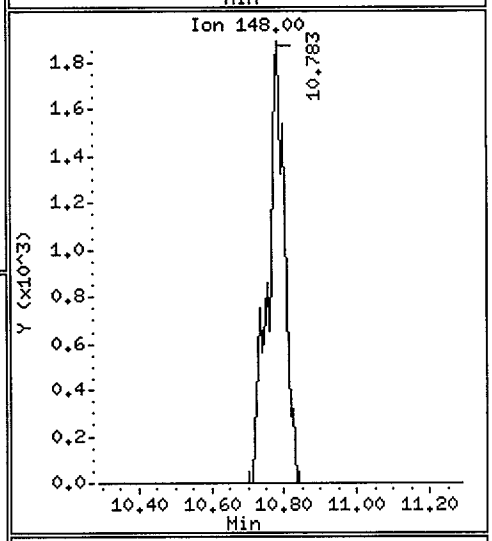


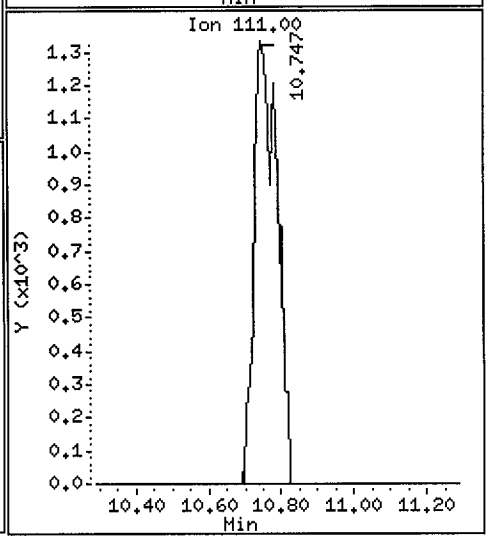












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

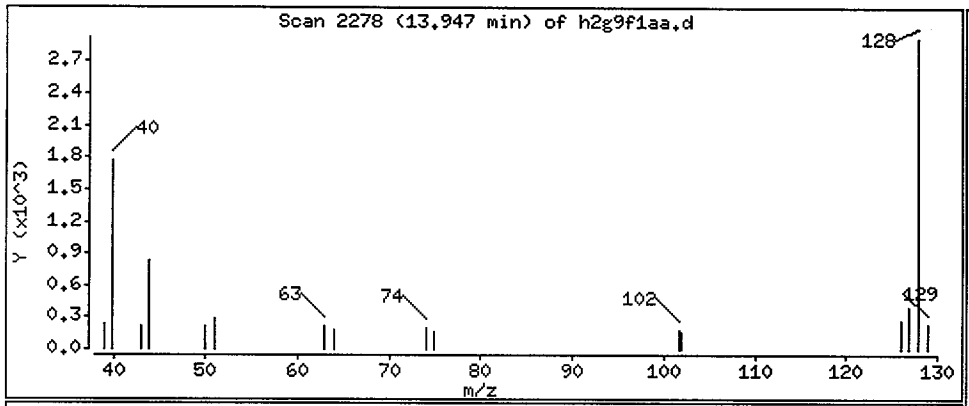
Operator: 22980

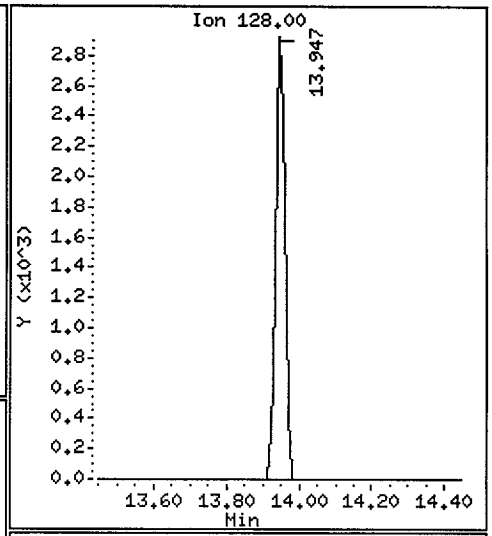
Column phase: J+W 624

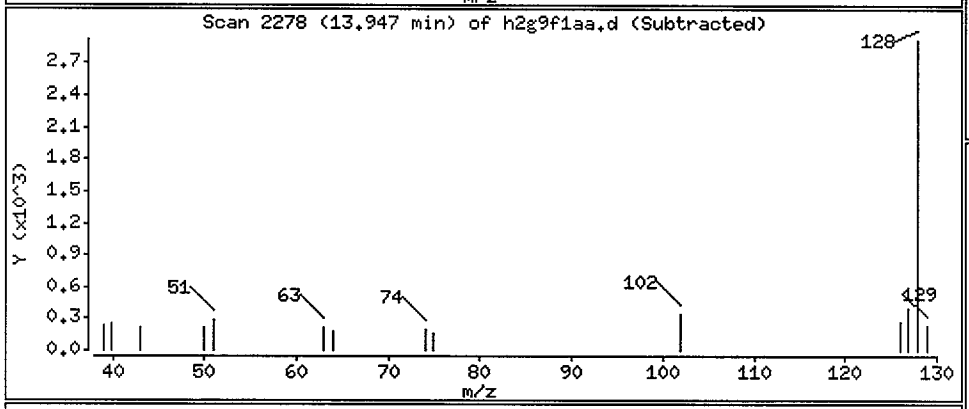
Column diameter: 0.18

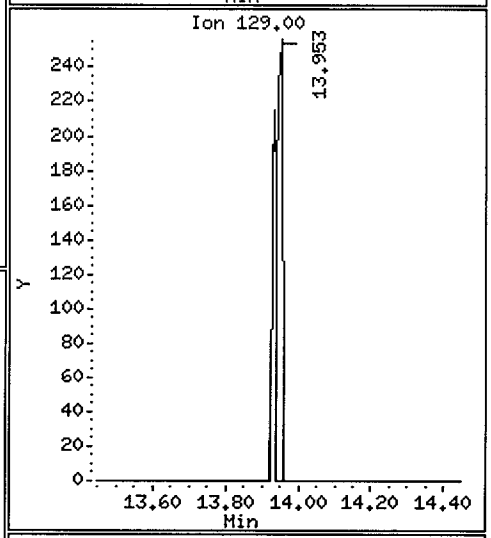
90 Napthalene

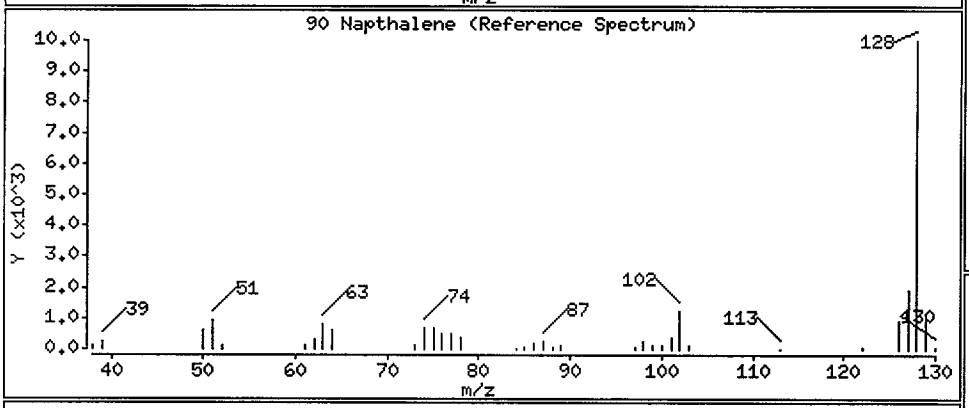
Concentration: 0.011289 ug

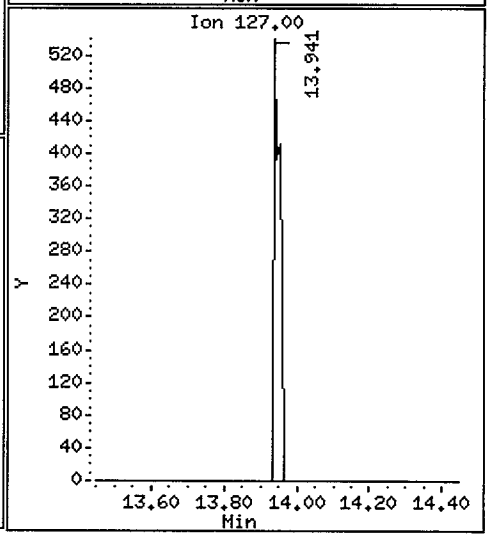


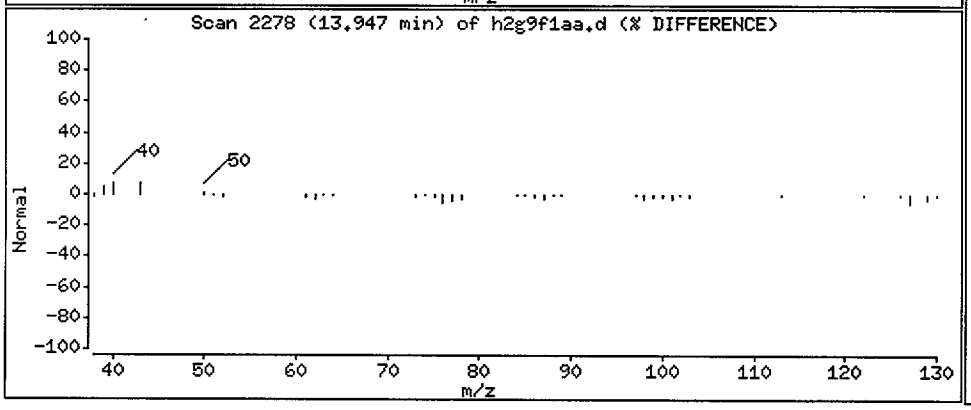












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Report Date: 18-Apr-2006 14:55

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
Lab Smp Id: H2G9F1AA Client Smp ID: G-2914-R1-VOST PAIR
Inj Date : 07-APR-2006 12:59
Operator : 22980 Inst ID: mx.i
Smp Info : H2G9F1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	7.584	1551938	10.000
* 3 1,4 Dichlorobenzene-d4	10.747	617229	10.000

	CONCENTRATIONS				QUANT			
	RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl- Si					CAS #: 541-05-9			
	6.720	327576	2.11075442	0.052769	91	NIST02.1	71175	2
Cyclotetrasiloxane, octamethyl- Si					CAS #: 556-67-2			
	9.238	143518	2.32519859	0.058130	86	NIST02.1	115616	3
Benzaldehyde					CAS #: 100-52-7			
	10.090	191365	3.10038900	0.077510	97	NIST02.1	4942	3
Benzoic acid, 2-[(trimethylsilyl)oxy] Si					CAS #: 3789-85-3			
	12.444	78454	1.27106795	0.031777	39	NIST02.1	107110	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

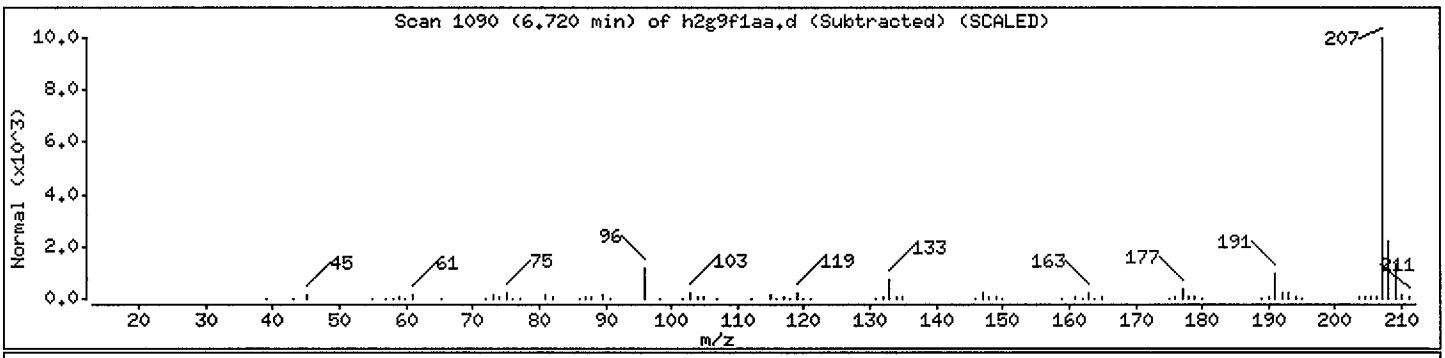
Client ID: G-2914-R1-VOST PAIR | Instrument: mx.i

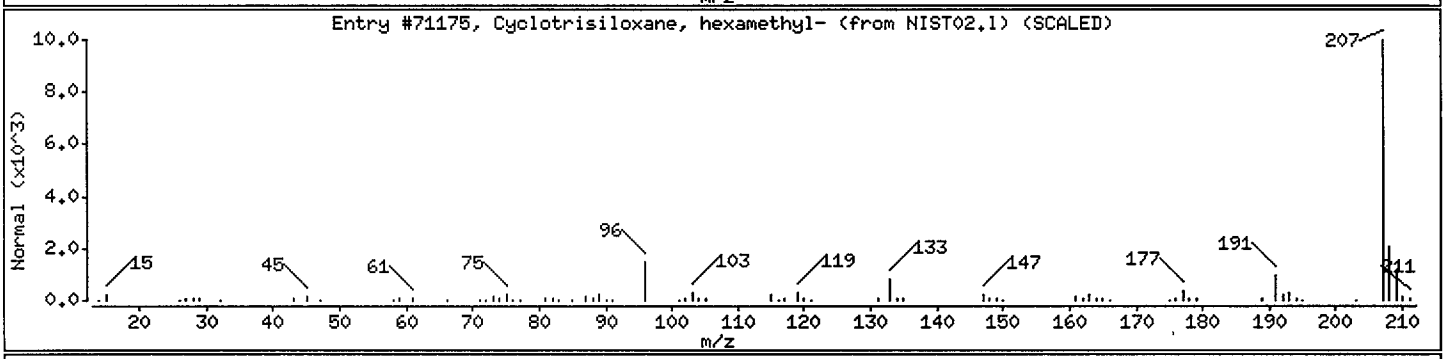
Sample Info: H2G9F1AA,1,0,,,

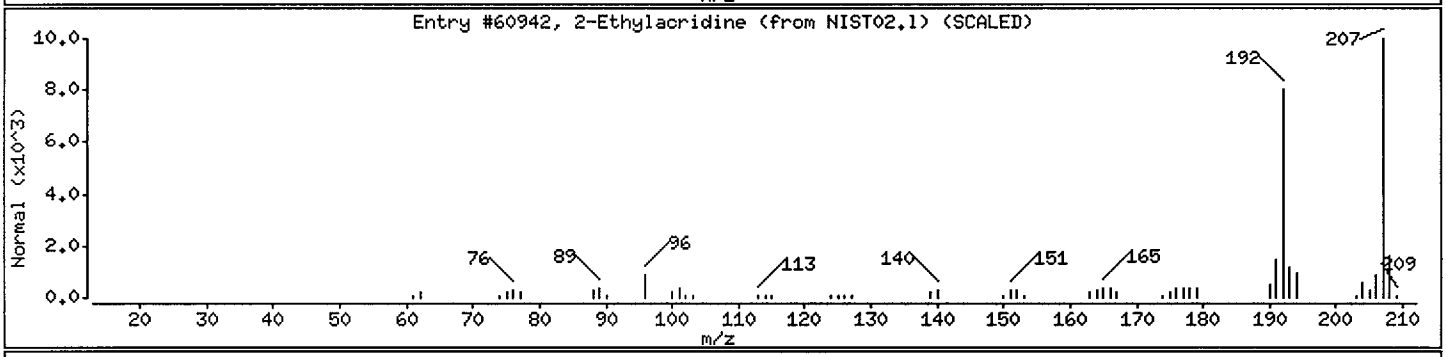
Operator: 22980

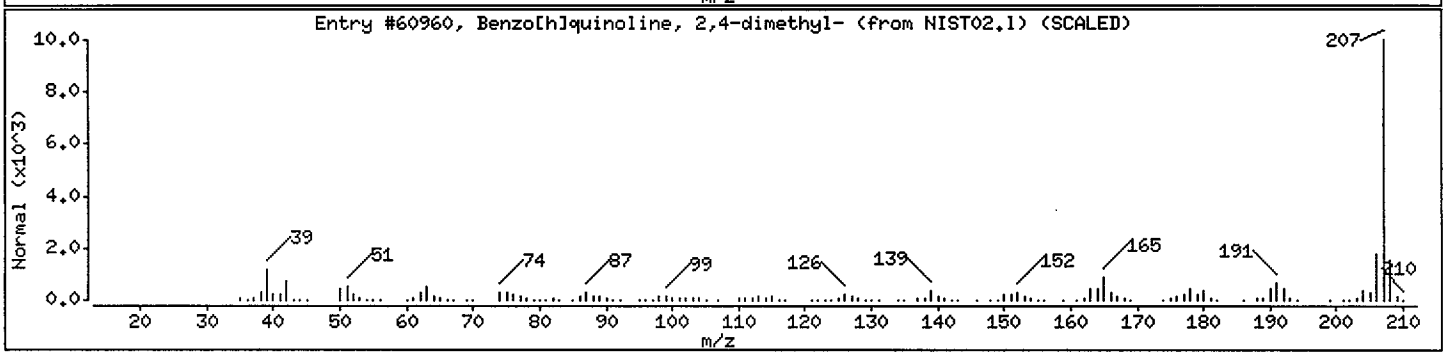
Column phase: J+W 624 | Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.1	71175	91	C6H18O3Si3	222
2-Ethylacridine	55751-83-2	NIST02.1	60942	45	C15H13N	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.1	60960	39	C15H13N	207









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Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

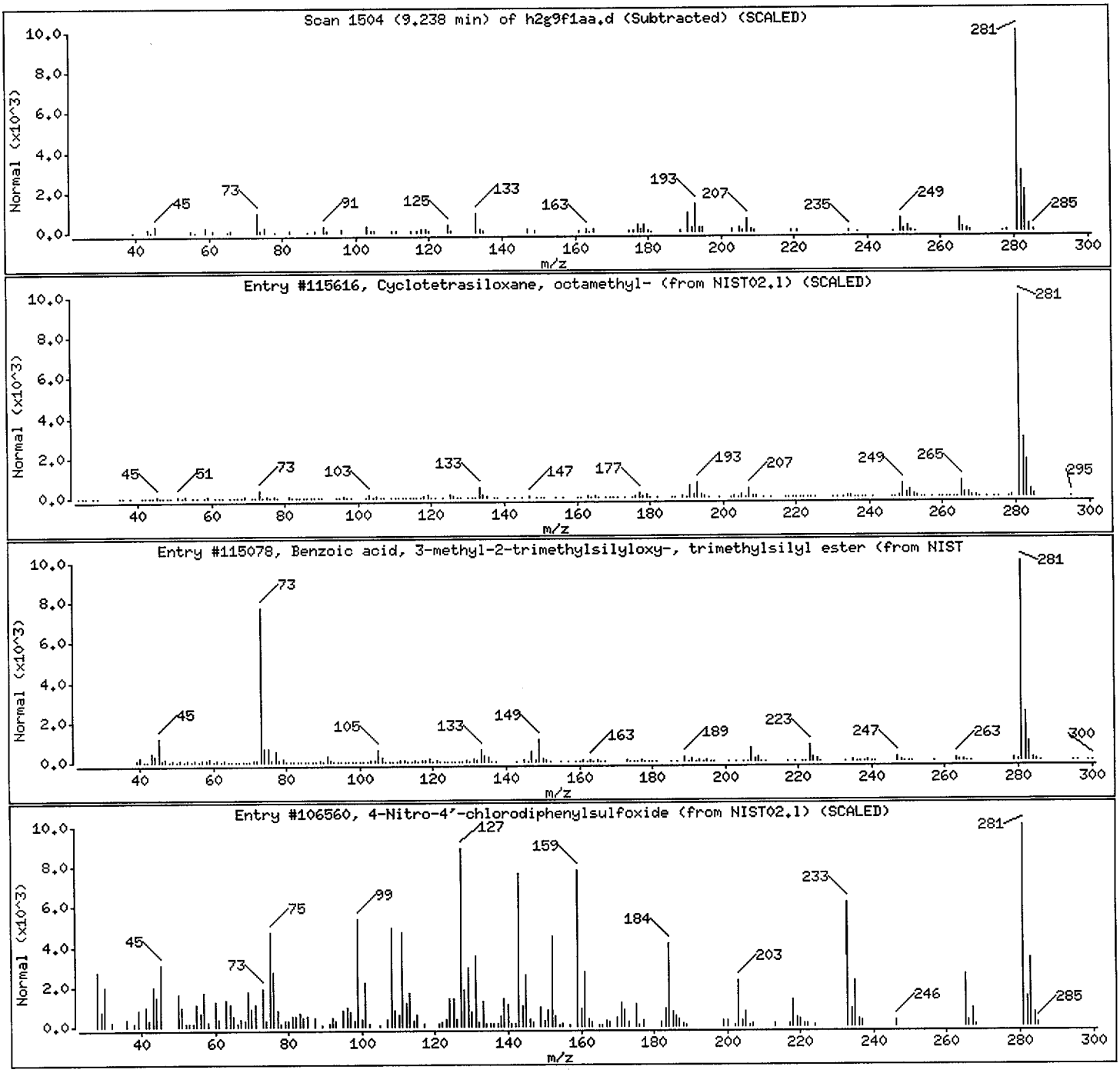
Sample Info: H2G9F1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115616	86	C8H24O4Si4	296
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST02.1	115078	50	C14H24O3Si2	296
4-Nitro-4'-chlorodiphenylsulfoxide	24535-53-3	NIST02.1	106560	49	C12H8ClNO3S	281



Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

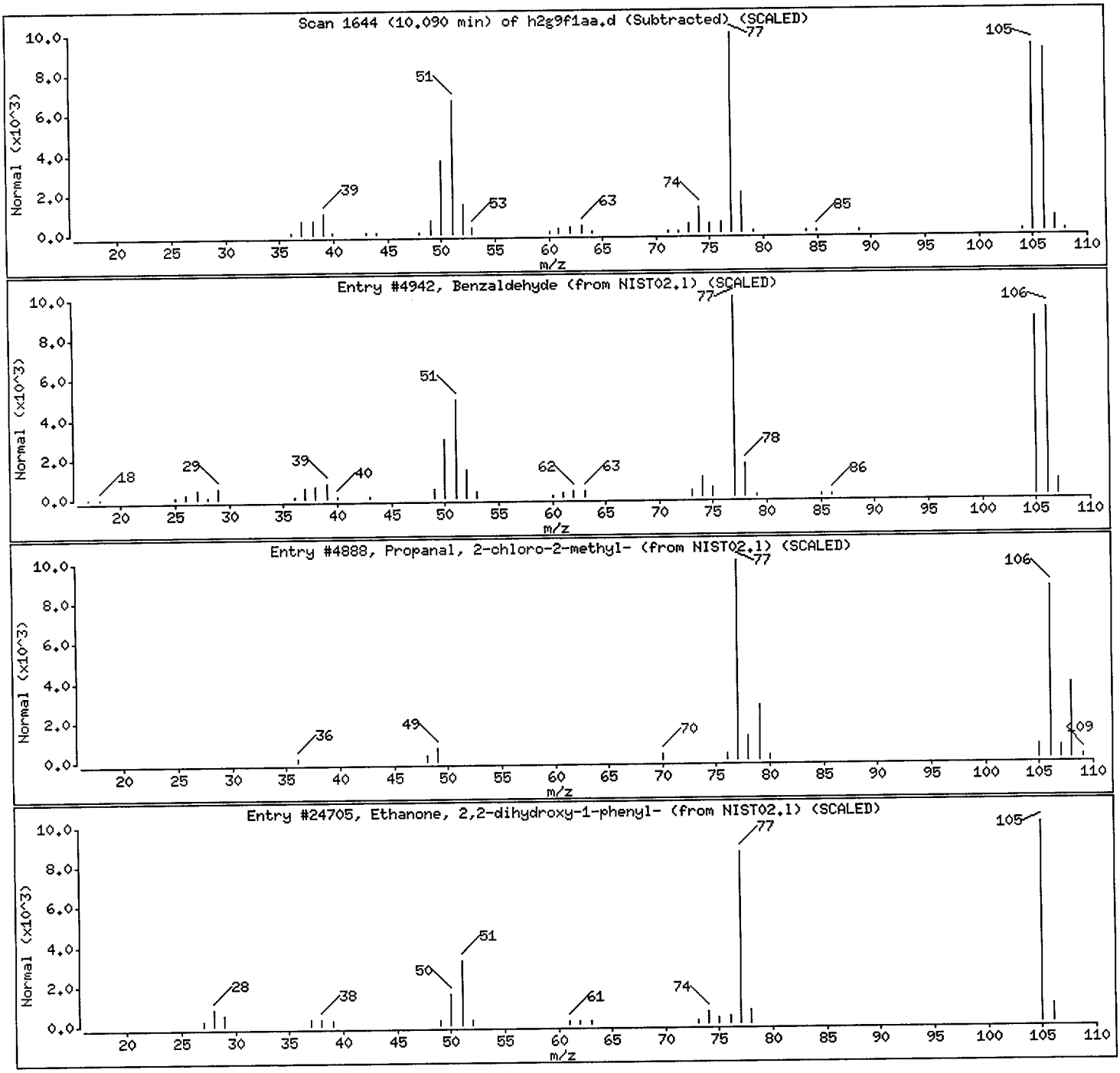
Sample Info: H2G9F1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.1	4942	97	C7H6O	106
Propanal, 2-chloro-2-methyl-	917-93-1	NIST02.1	4888	52	C4H7Cl0	106
Ethanone, 2,2-dihydroxy-1-phenyl-	1075-06-5	NIST02.1	24705	50	C8H8O3	152



Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: G-2914-R1-VOST PAIR

Instrument: mx.i

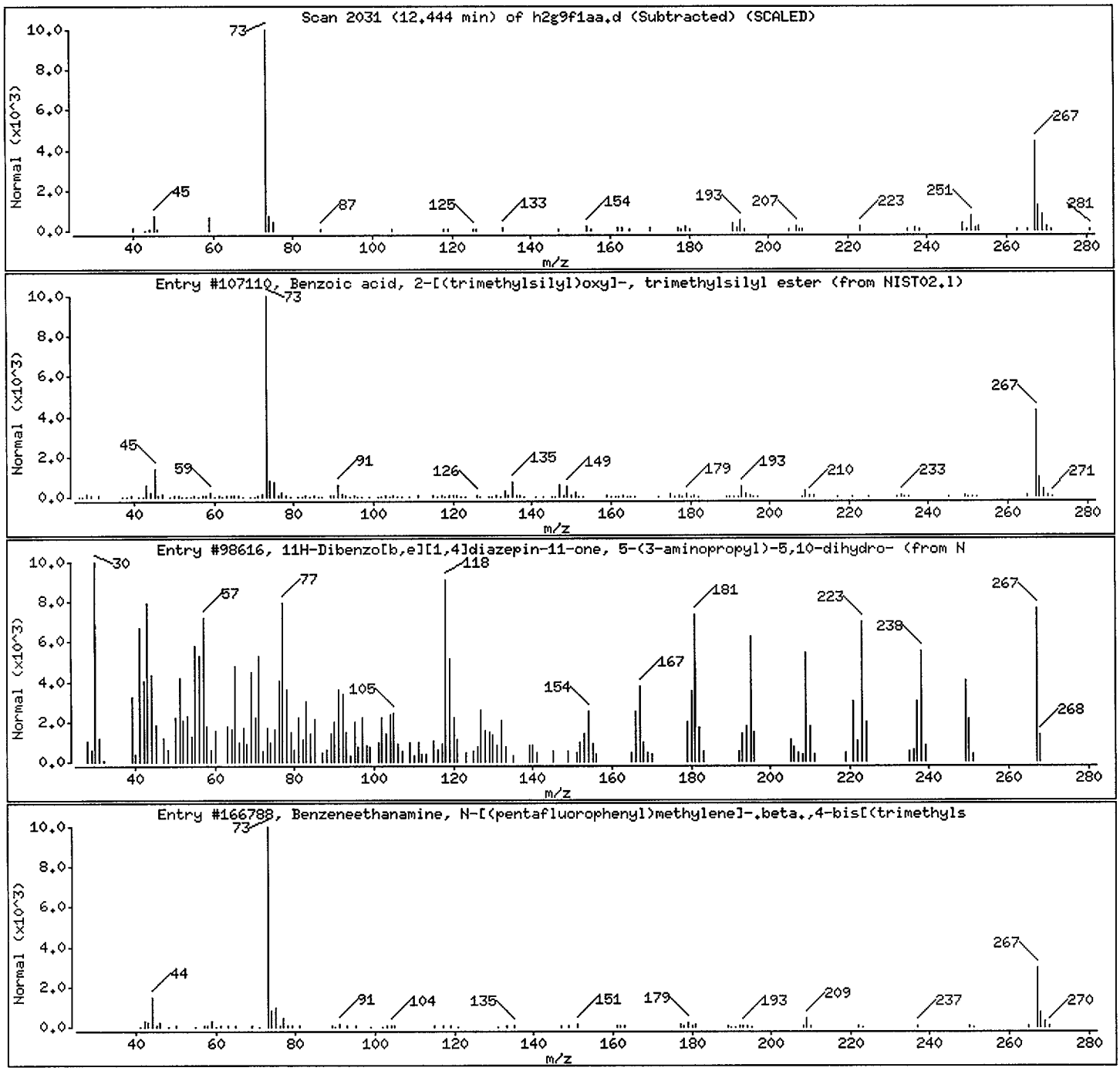
Sample Info: H2G9F1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.1	107110	39	C13H22O3Si2	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.1	98616	38	C16H17N3O	267
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.1	166788	32	C21H26F5NO2Si2	475



STL Knoxville - ACS

Client Sample ID: G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-008 **Work Order #...:** H2G9G1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0013 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0042 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.30**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.19**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-008 **Work Order #...:** H2G9G1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.036**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.011**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	**0.021 J**	**0.050**	**ug**	**0.0049**
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	**0.0065 J**	**0.010**	**ug**	**0.0032**
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(50 - 134)
1,2-Dichloroethane-d4	110	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	86	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-008 **Work Order #:** H2G9G1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Report Date: 07-Apr-2006 17:25

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Lab Smp Id: H2G9G1AA Client Smp ID: G-2915-R1-VOST PAIR
Inj Date : 07-APR-2006 17:08
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9G1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.678	5.676	(1.000)	754349	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	169200	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	231744	10.0000	
$ 4 Dibromofluoromethane	113	4.832	4.831	(0.851)	138304	11.4420	0.28605
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.923)	114860	10.9888	0.27472
$ 6 Toluene-d8	98	7.466	7.465	(0.835)	708851	9.53476	0.23837
$ 7 4-Bromofluorobenzene	95	10.131	10.129	(0.881)	201400	8.61736	0.21543
10 Dichlorodifluoromethane	85	1.012	1.016	(0.178)	140275	7.61808	0.19045
11 Chloromethane (spcc)	50	1.121	1.126	(0.197)	532119	12.0286	0.30071
12 Vinyl Chloride (ccc)	62	1.194	1.199	(0.210)	7687	0.25876	0.0064689
15 Bromomethane	94	1.419	1.418	(0.250)	2965	1.20280	0.030070
16 Chloroethane	64	1.474	1.485	(0.260)	4533	0.32223	~~0.0080557~~
18 Trichlorofluoromethane	101	1.675	1.673	(0.295)	19197	0.83262	0.020816
22 Acetone	43	2.131	2.123	(0.375)	2290	3.75175	0.093794
23 *Iodomethane	142	2.204	2.184	(0.388)	1318	0.58932	0.014733
27 Methylene Chloride	84	2.508	2.513	(0.442)	18250	1.44662	0.036166

MW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Report Date: 07-Apr-2006 17:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
39 *THF	42	4.546	4.532	(0.801)	1385	0.77392	0.019348
40 Chloroform (ccc)	83	4.625	4.618	(0.815)	4570	0.16770	0.0041926
45 1,2-Dichloroethane	62	5.672	5.335	(0.999)	11767	0.74702	~~0.018676~~
46 Trichloroethene	130	6.116	6.114	(1.077)	8907	0.42567	0.010642
53 4-Methyl-2-pentanone	43	7.466	7.386	(1.315)	6192	0.93999	~~0.023500~~
54 Toluene (ccc)	91	7.527	7.532	(0.842)	8256	0.08574	0.0021435
55 trans-1,3-Dichloropropene	75	7.466	7.793	(0.835)	209	0.63892	~~0.015973~~
63 Chlorobenzene (spcc)	112	8.969	8.961	(1.003)	2711	0.05046	0.0012615
65 Ethylbenzene (ccc)	106	9.225	9.101	(1.032)	1938	0.05598	~~0.0013994~~
67 o-Xylene	106	9.225	9.612	(1.032)	1938	0.05242	~~0.0013106~~
68 Styrene	104	9.626	9.630	(1.077)	2165	0.04171	0.0010428
69 Bromoform (spcc)	173	10.119	9.782	(1.132)	369	0.93798	~~0.023450~~
83 1,3-Dichlorobenzene	146	11.536	11.395	(1.004)	3045	0.07507	~~0.0018767~~
85 1,4-Dichlorobenzene	146	11.536	11.528	(1.004)	3045	0.08070	0.0020176

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Report Date: 07-Apr-2006 17:25

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g9g1aa.d
Lab Smp Id: H2G9G1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-2915-R1-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	754349	-20.81
2 Chlorobenzene-d5	164101	82050	328202	169200	3.11
3 1,4 Dichlorobenze	204390	102195	408780	231744	13.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.68	0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Report Date: 07-Apr-2006 17:25

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G9G1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2915-R1-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.28605	114.42	50-150
$ 5 1,2-Dichloroethane	0.25000	0.27472	109.89	50-150
$ 6 Toluene-d8	0.25000	0.23837	95.35	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21543	86.17	50-150

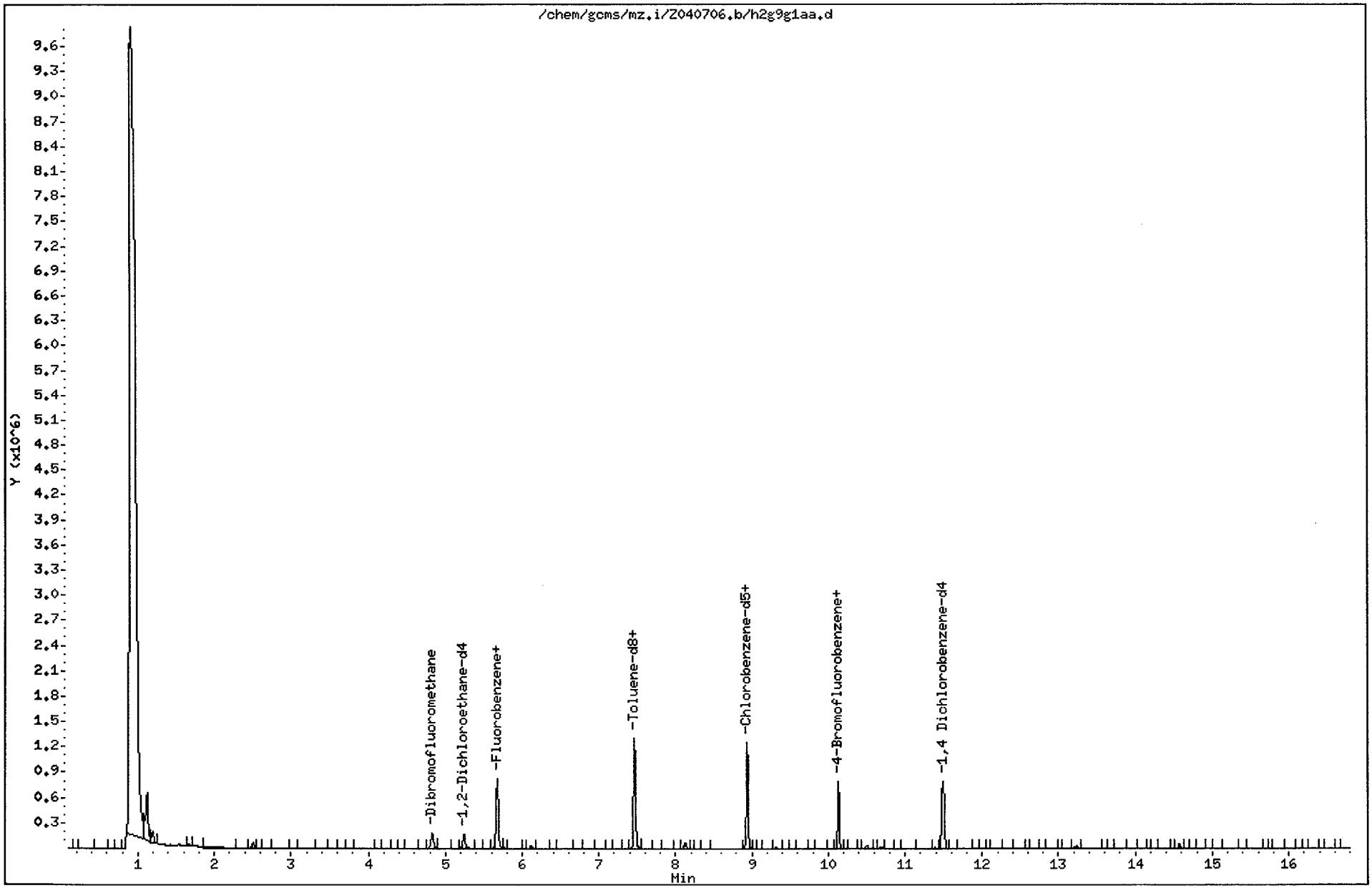
Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Date : 07-APR-2006 17:08
Client ID: G-2915-R1-VOST PAIR
Sample Info: H2G9G1AA,1,0,,

Instrument: mz.i

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

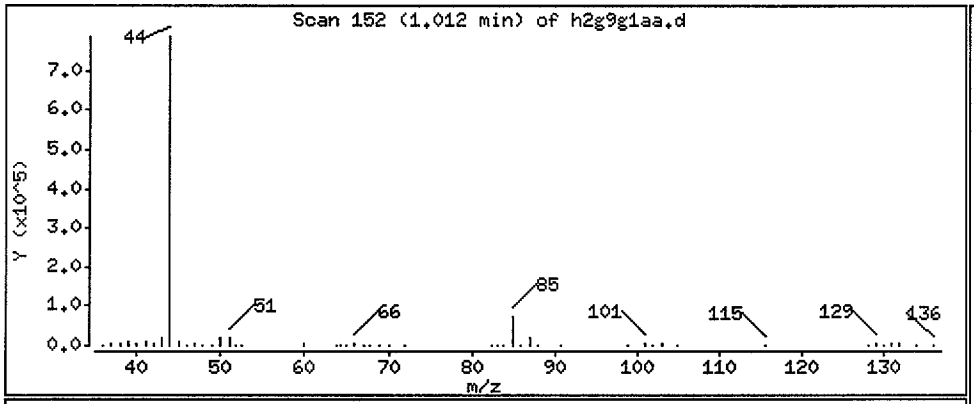
Operator: 22980

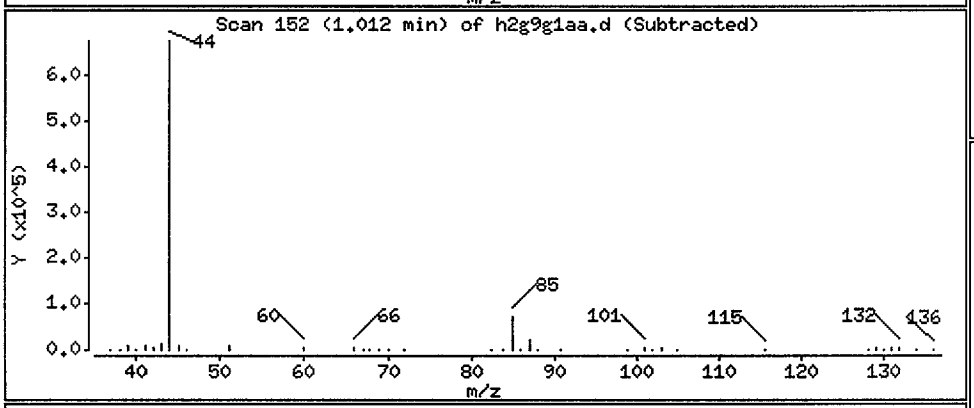
Column phase: J+W 624

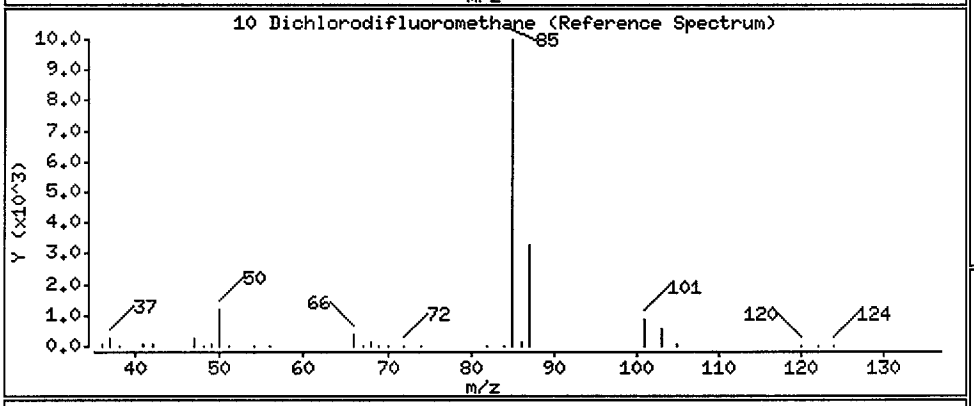
Column diameter: 0.18

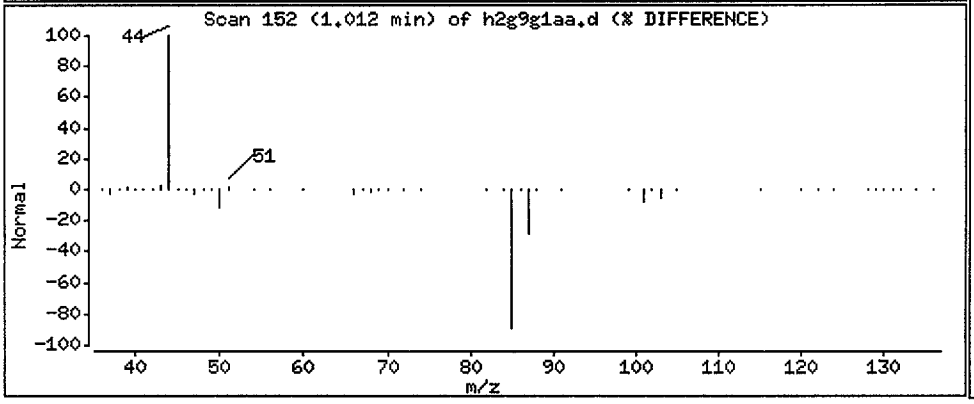
10 Dichlorodifluoromethane

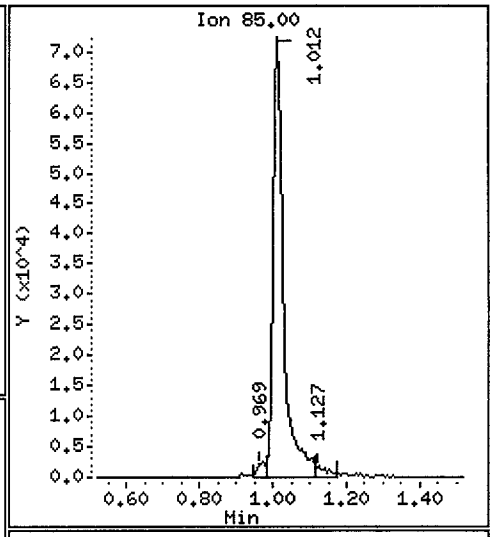
Concentration: 0.19045 ug

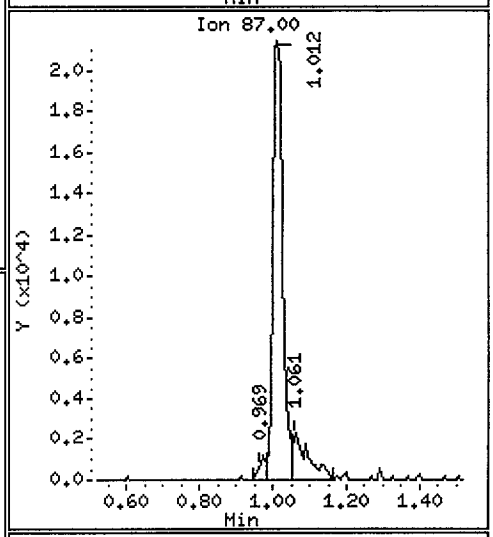


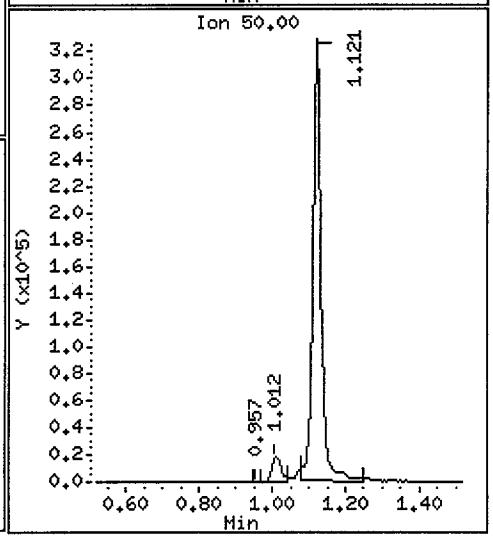












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

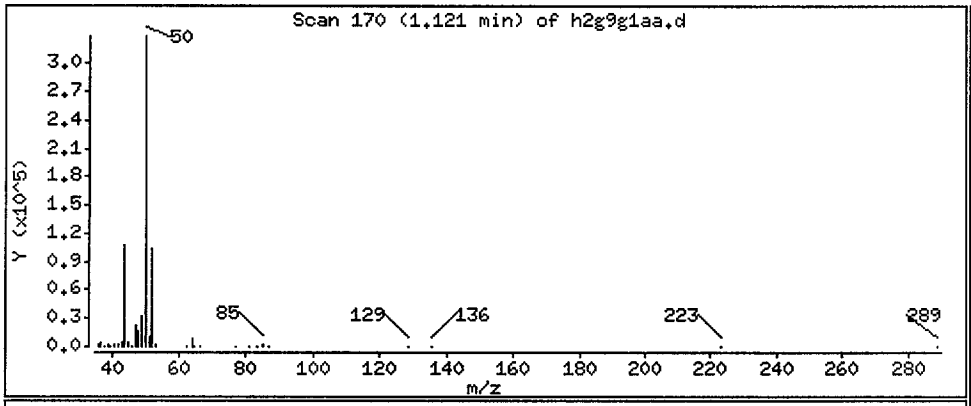
Operator: 22980

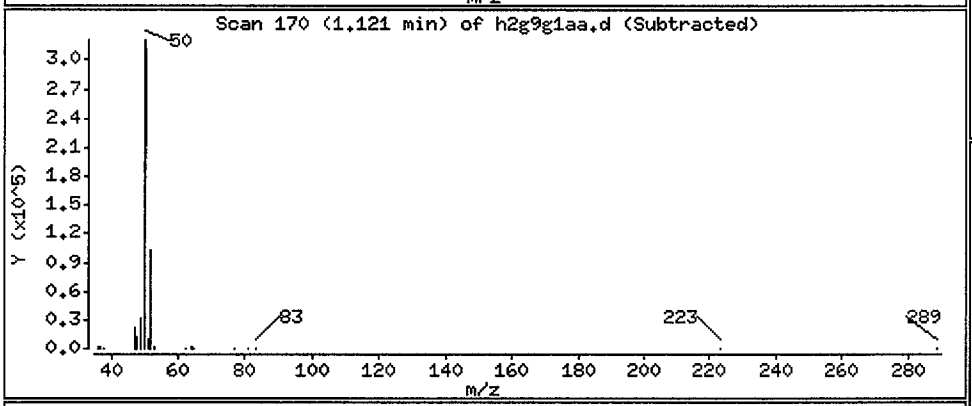
Column phase: J+W 624

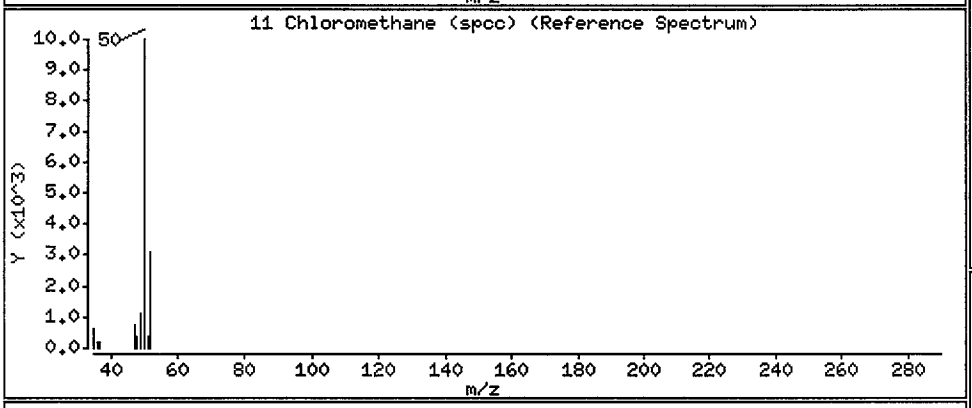
Column diameter: 0.18

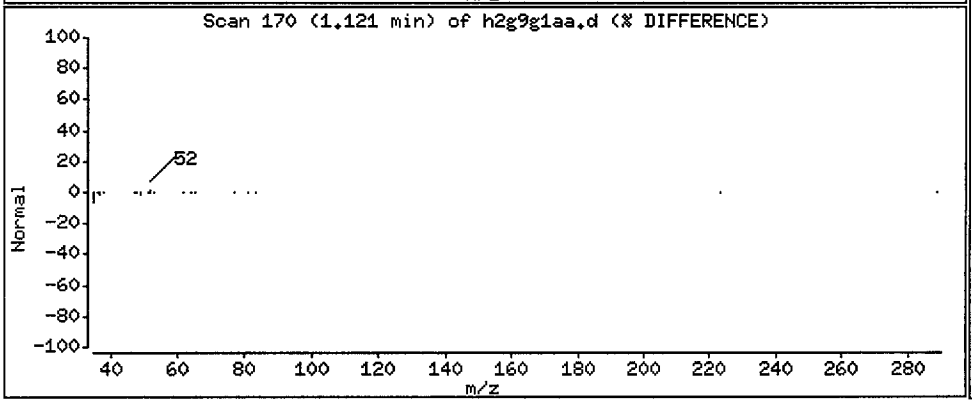
11 Chloromethane (spcc)

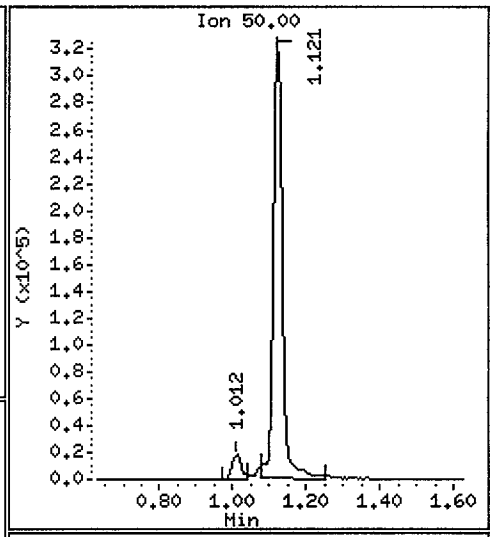
Concentration: 0.30071 ug

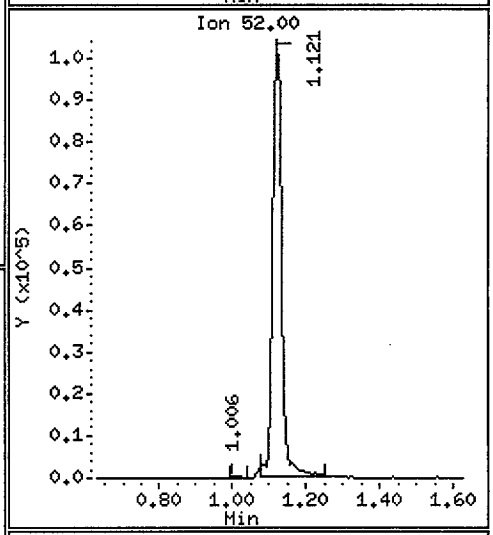


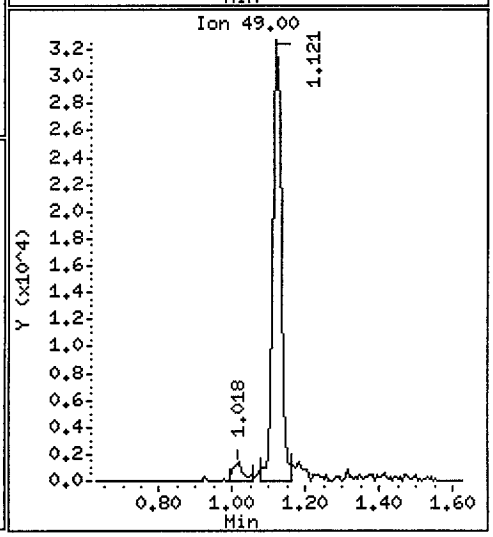












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

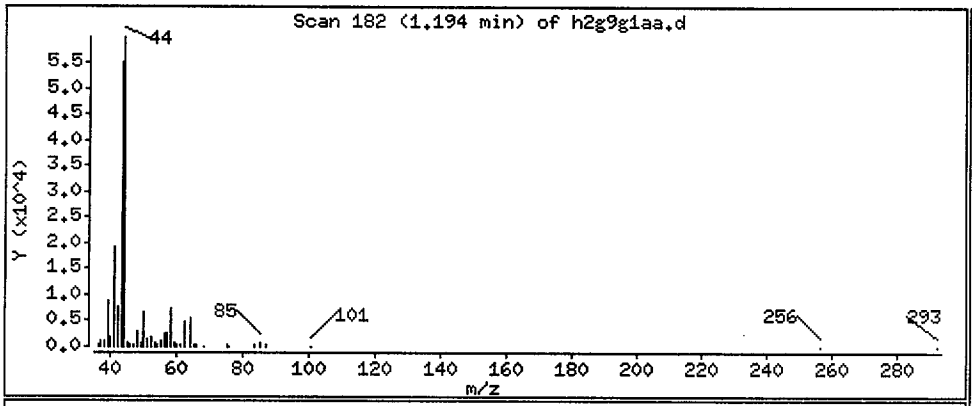
Operator: 22980

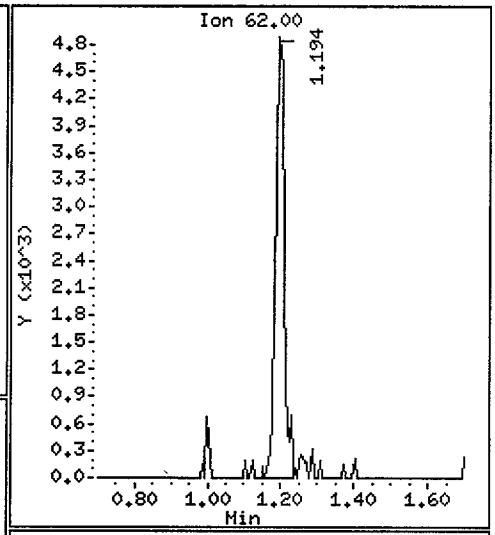
Column phase: J+W 624

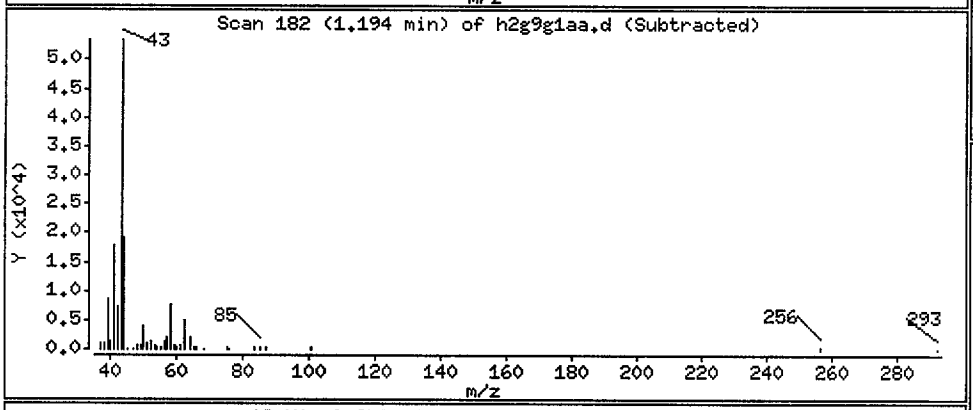
Column diameter: 0.18

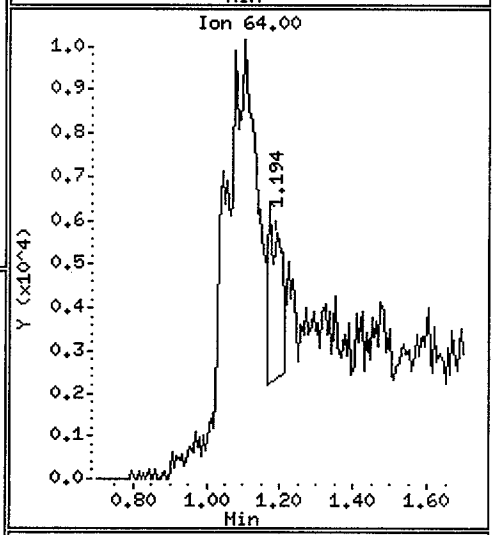
12 Vinyl Chloride (ccc)

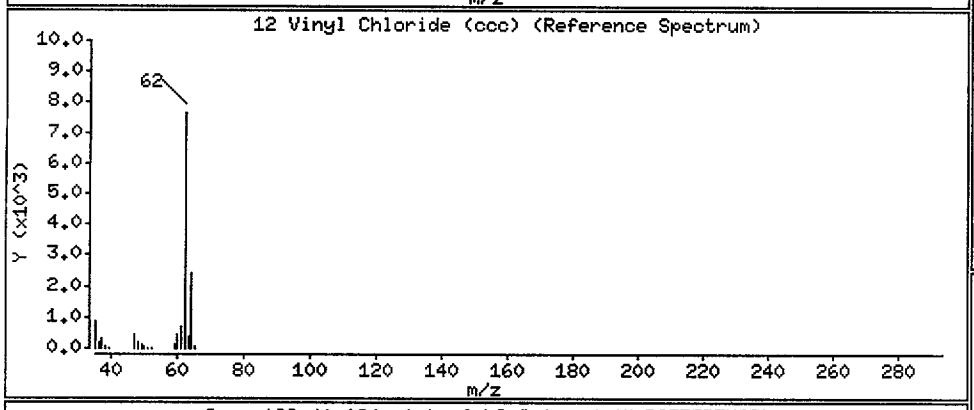
Concentration: 0.0064689 ug

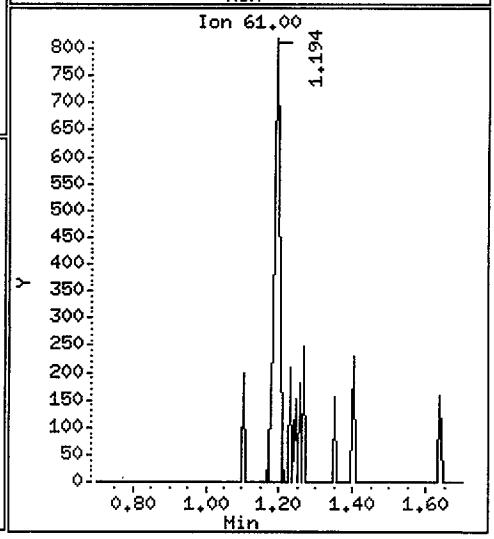


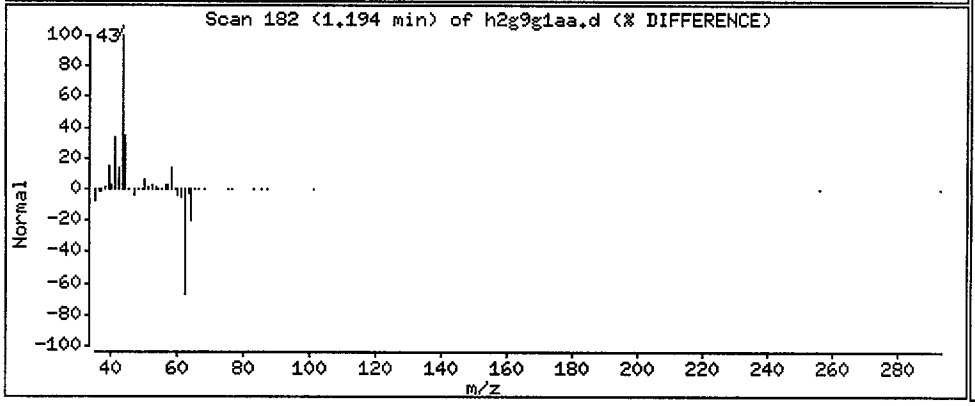












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

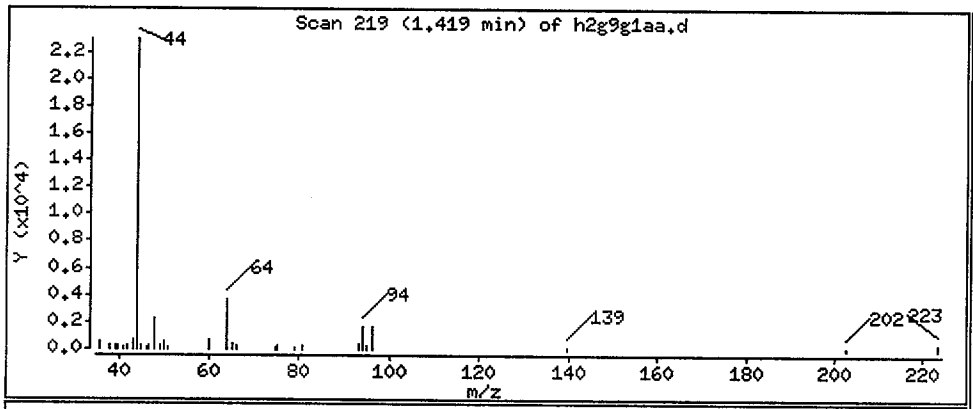
Operator: 22980

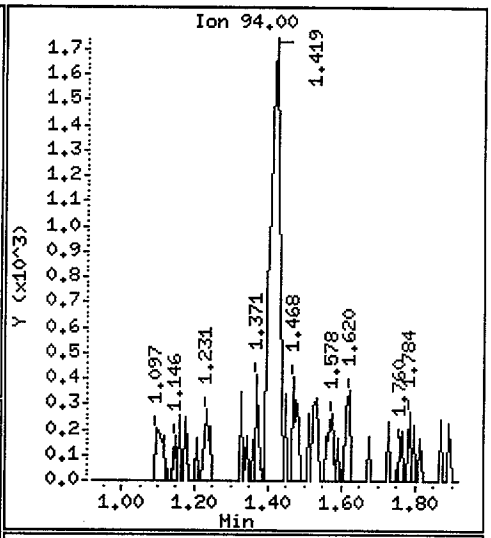
Column phase: J+W 624

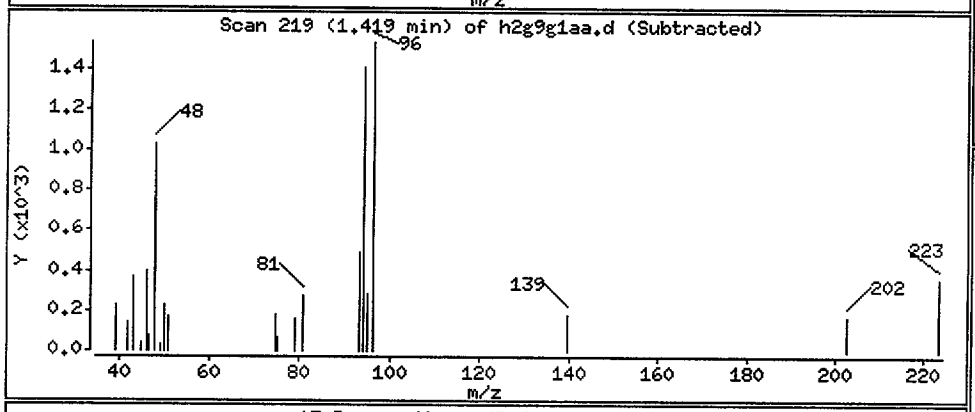
Column diameter: 0.18

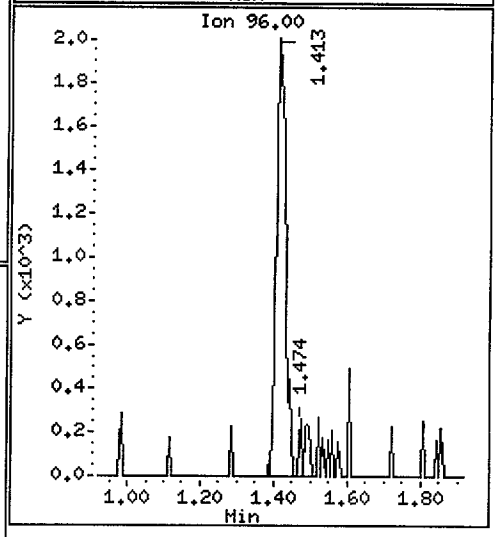
15 Bromomethane

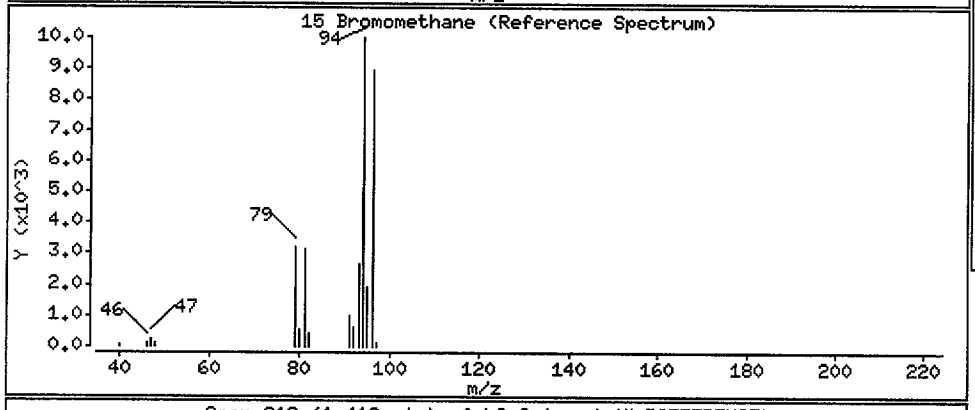
Concentration: 0.030070 ug

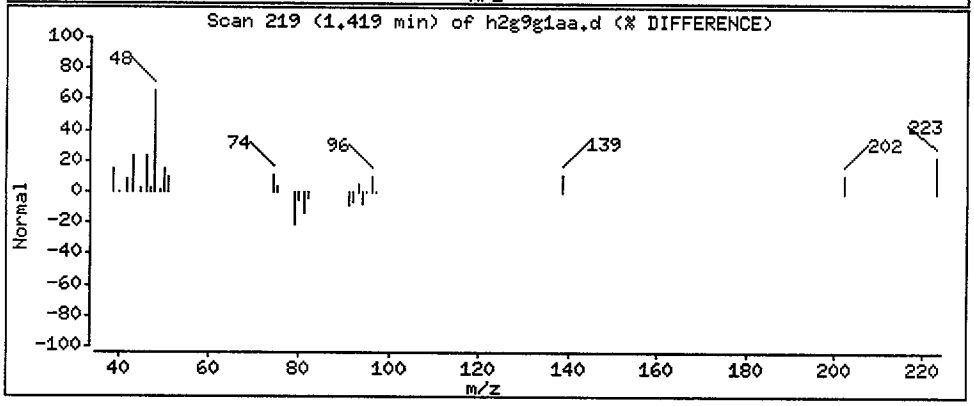












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

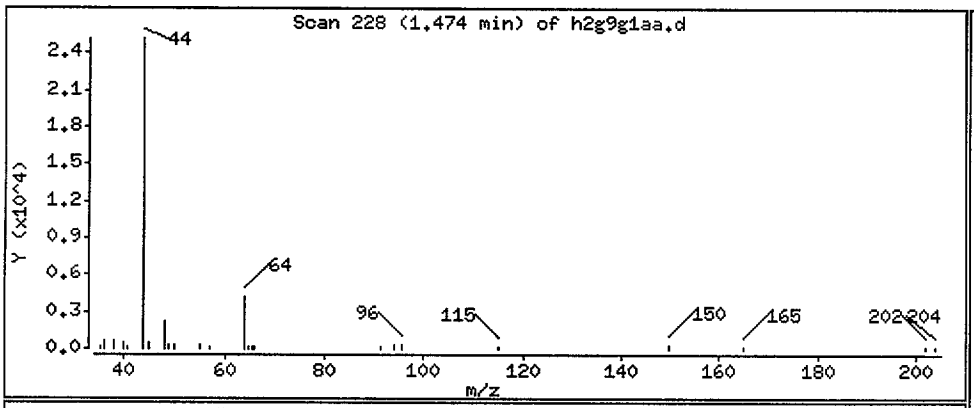
Operator: 22980

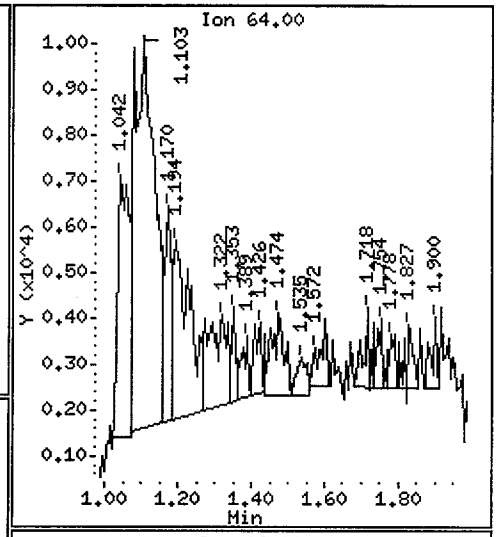
Column phase: J+W 624

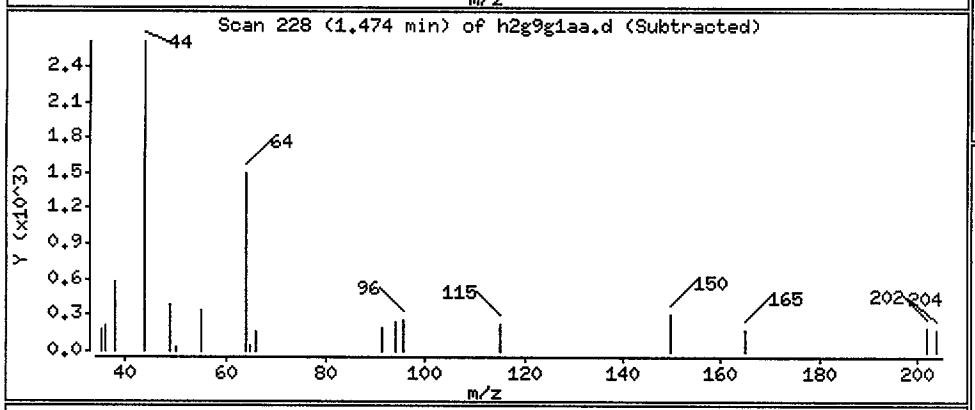
Column diameter: 0.18

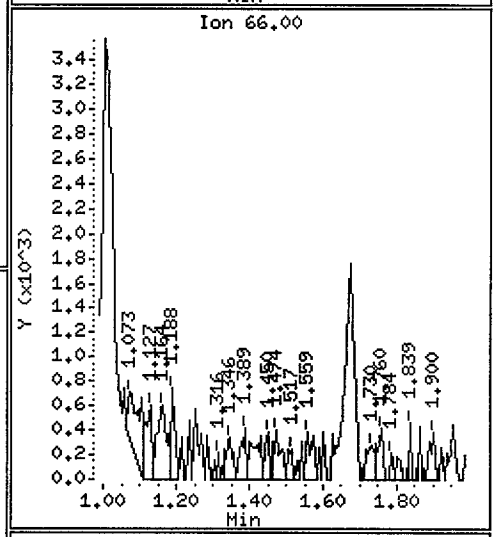
16 Chloroethane

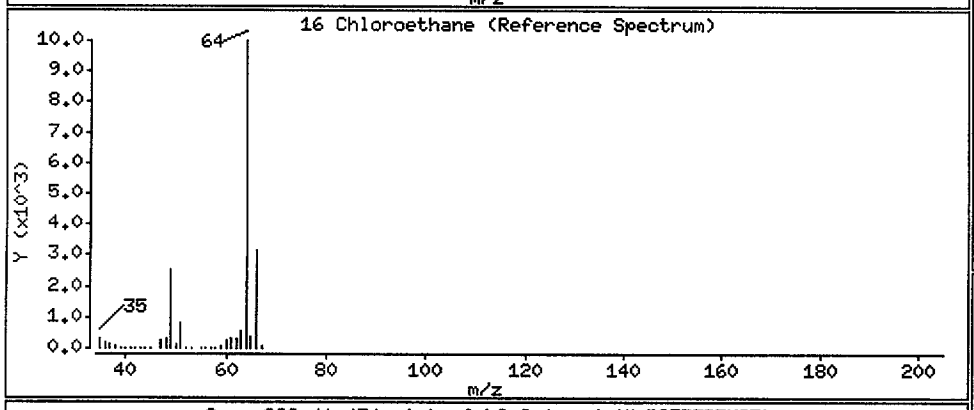
Concentration: 0.0080557 ug

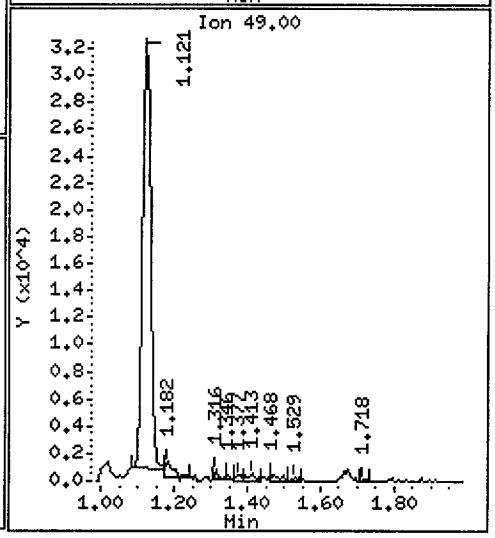


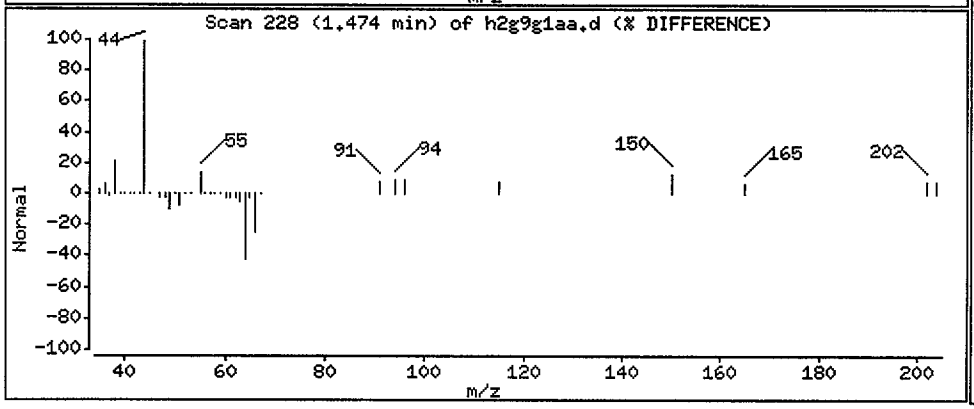












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

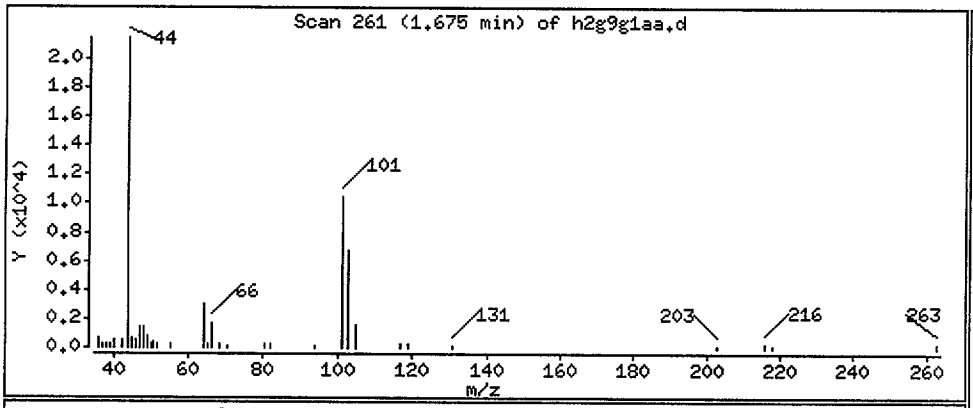
Operator: 22980

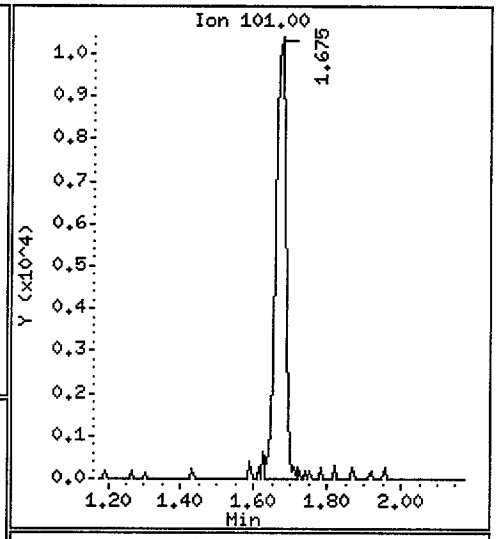
Column phase: J+W 624

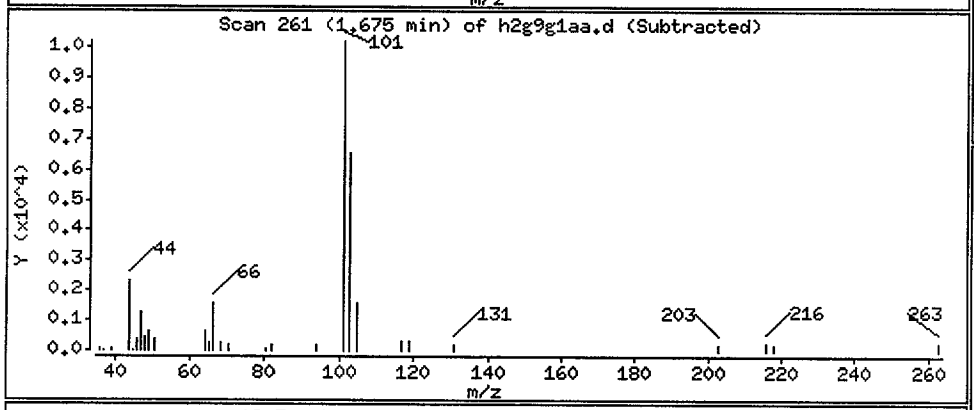
Column diameter: 0.18

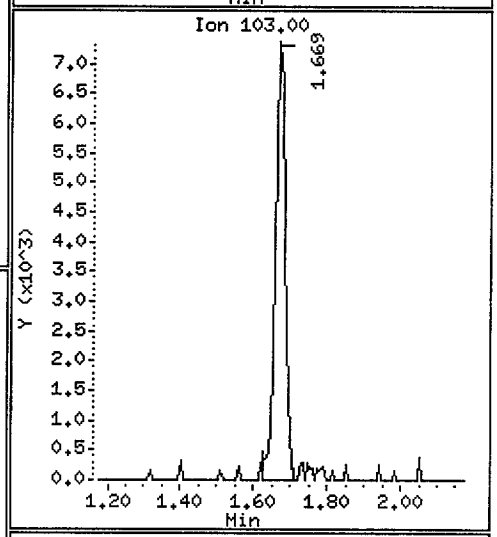
18 Trichlorofluoromethane

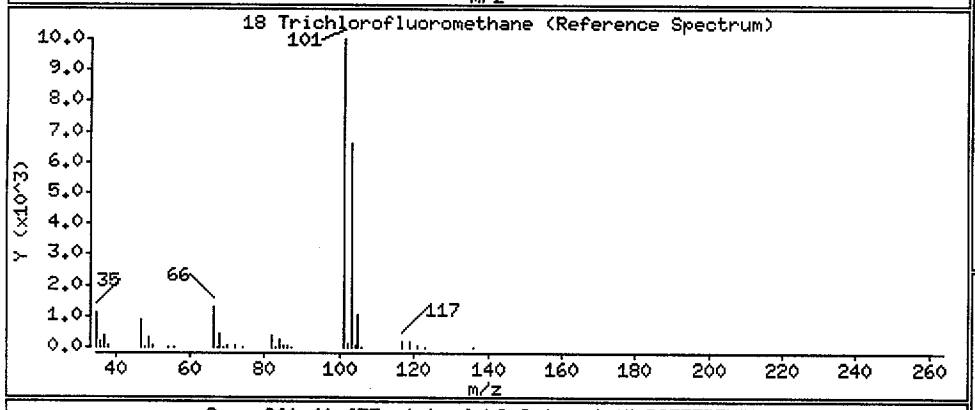
Concentration: 0.020816 ug

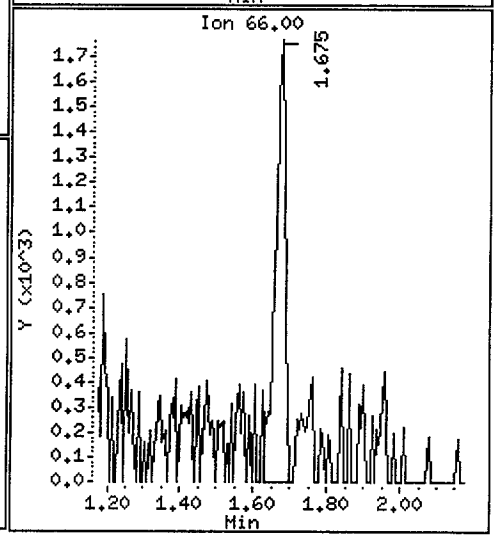


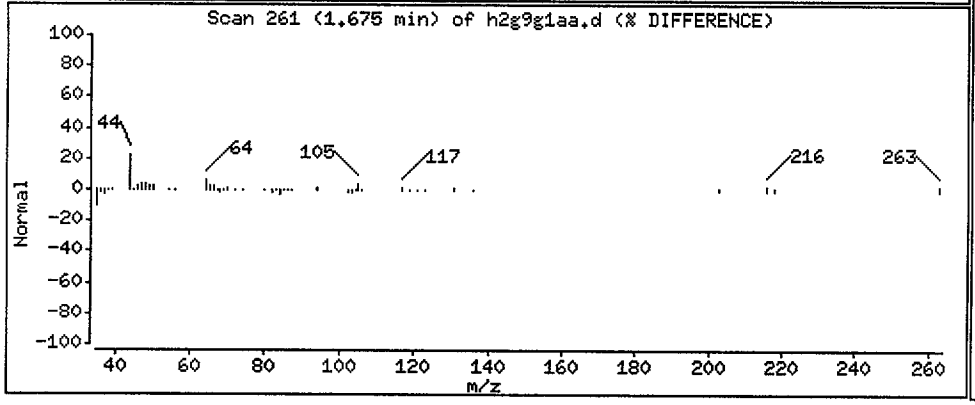












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

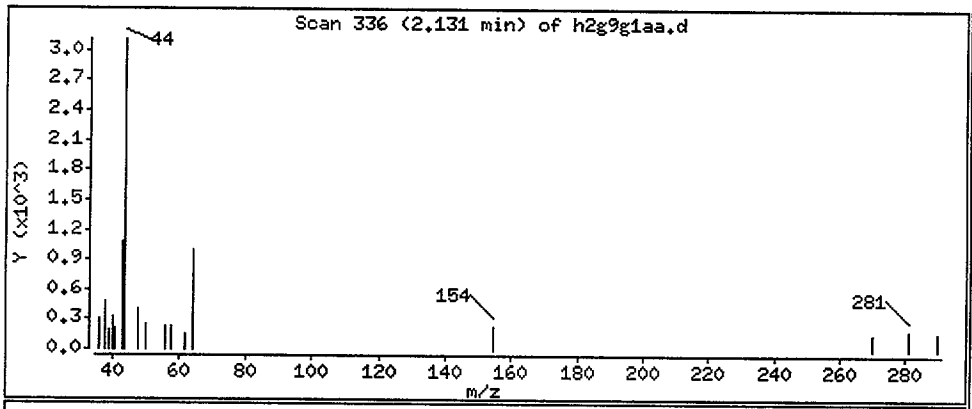
Operator: 22980

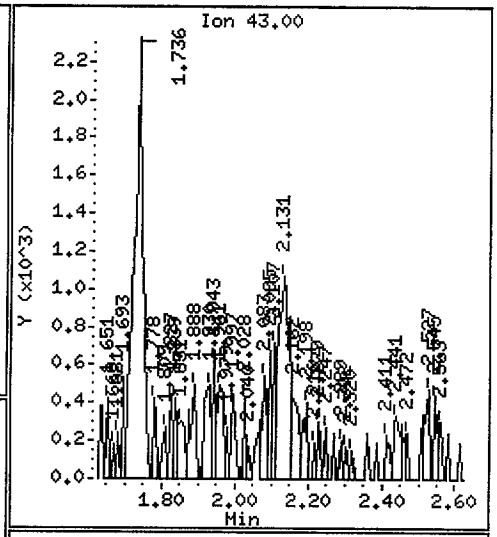
Column phase: J+W 624

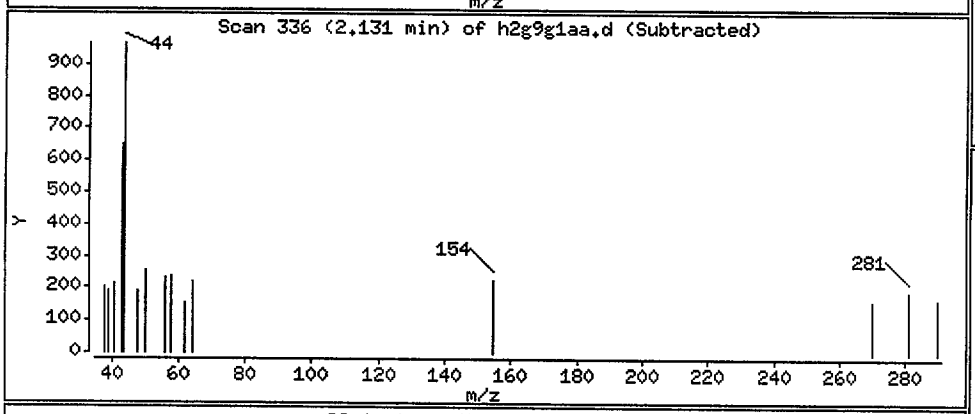
Column diameter: 0.18

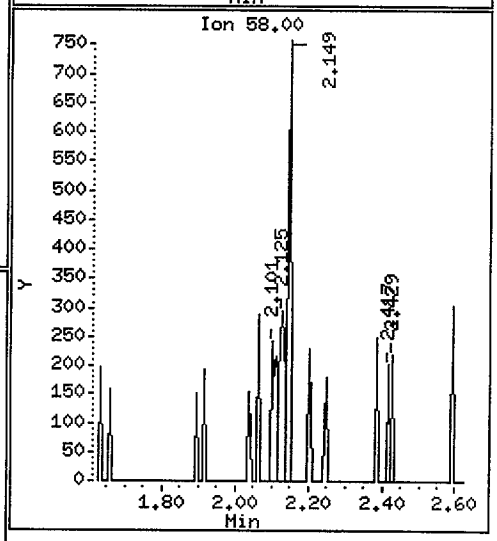
22 Acetone

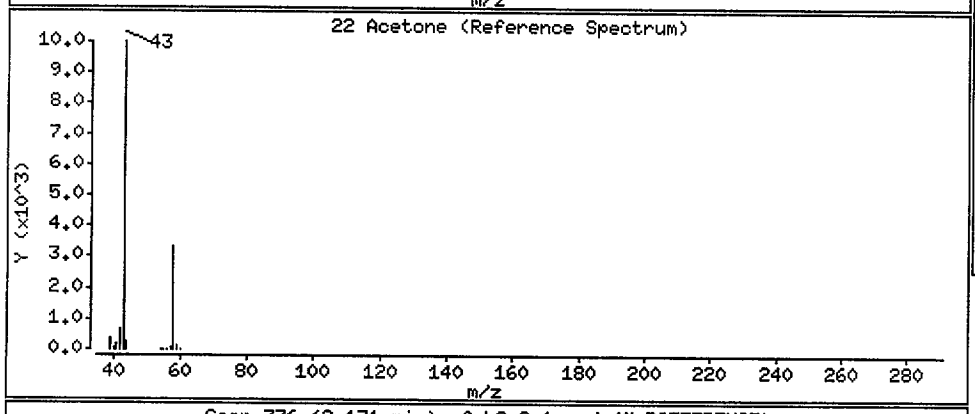
Concentration: 0.093794 ug

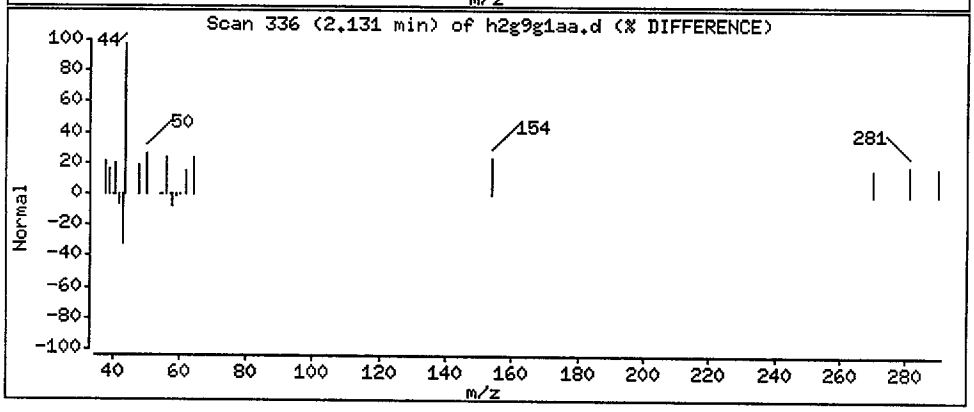












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

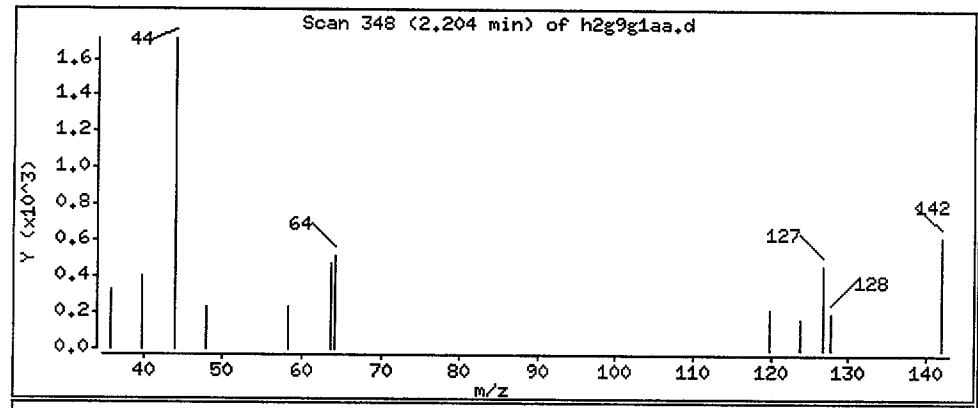
Operator: 22980

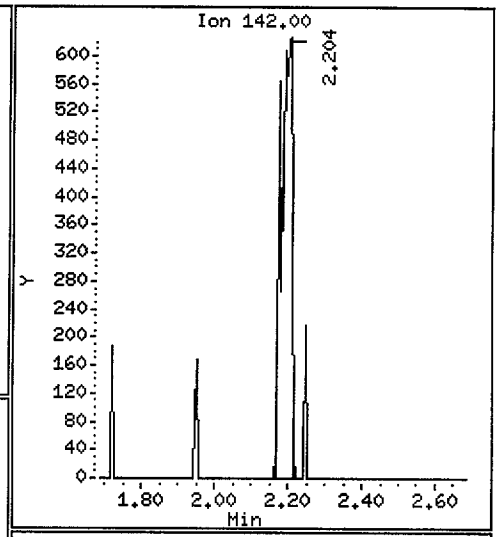
Column phase: J+W 624

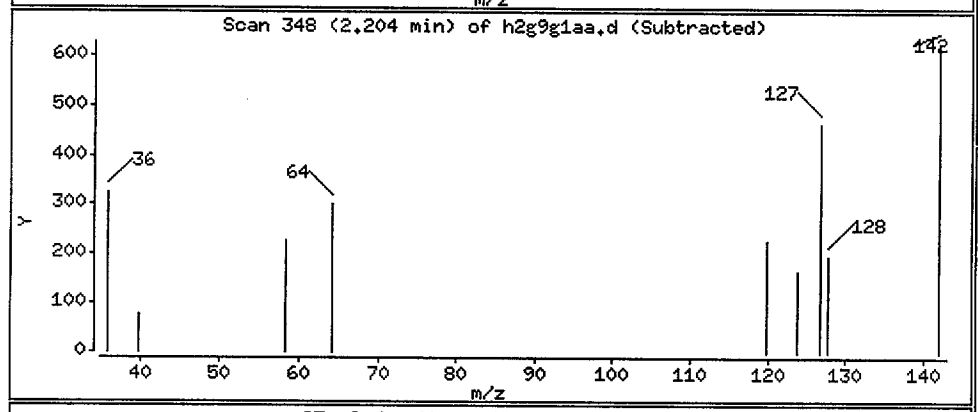
Column diameter: 0.18

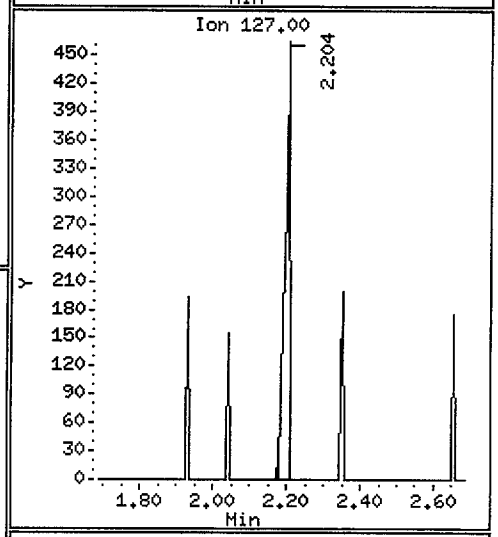
23 *Iodomethane

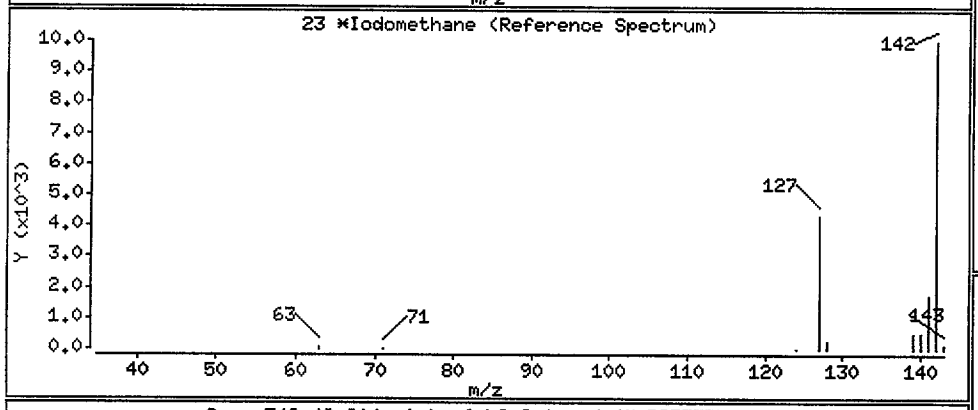
Concentration: 0.014733 ug

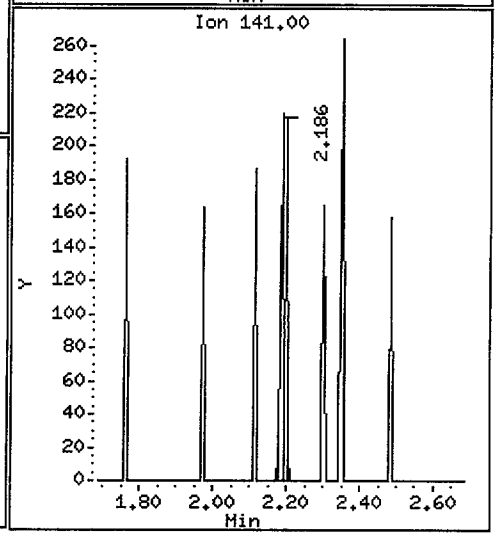


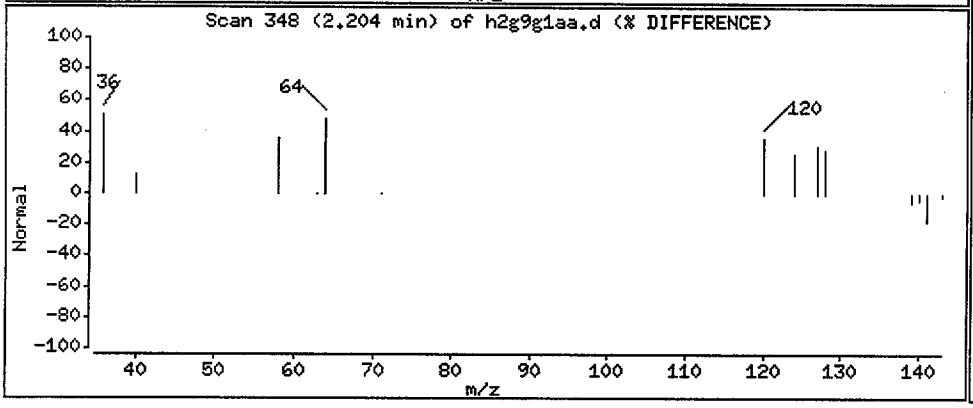












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

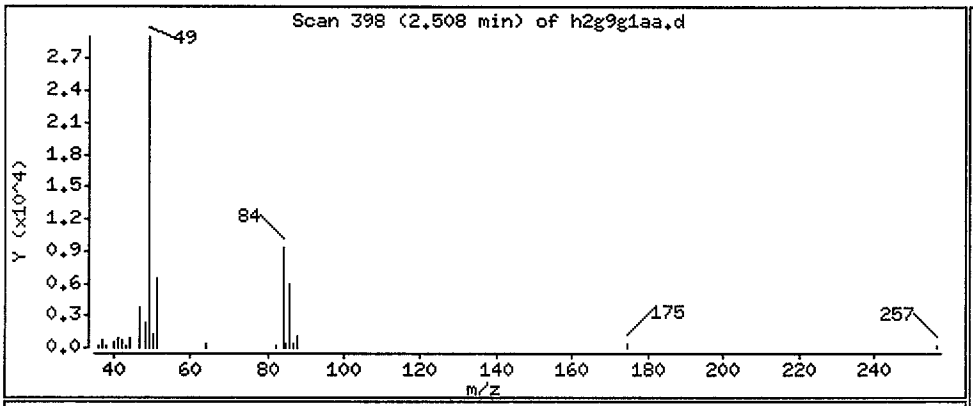
Operator: 22980

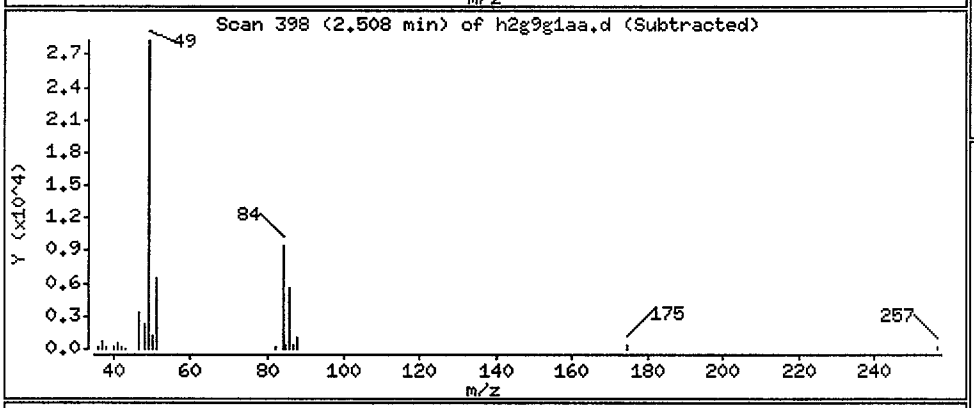
Column phase: J+W 624

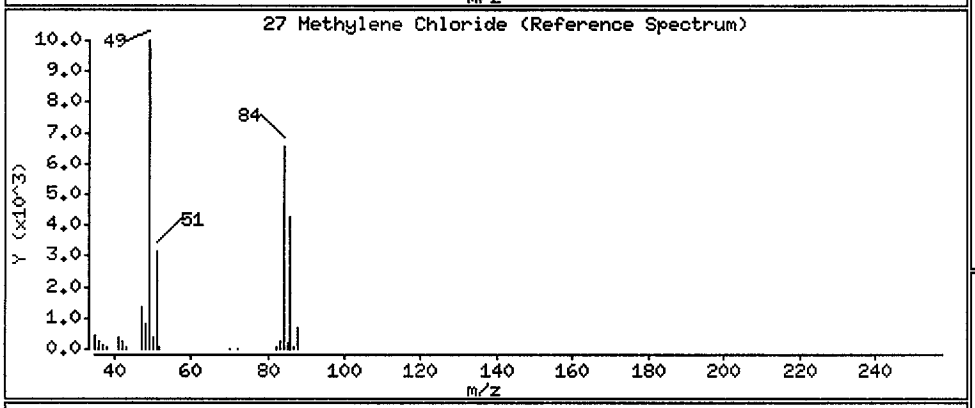
Column diameter: 0.18

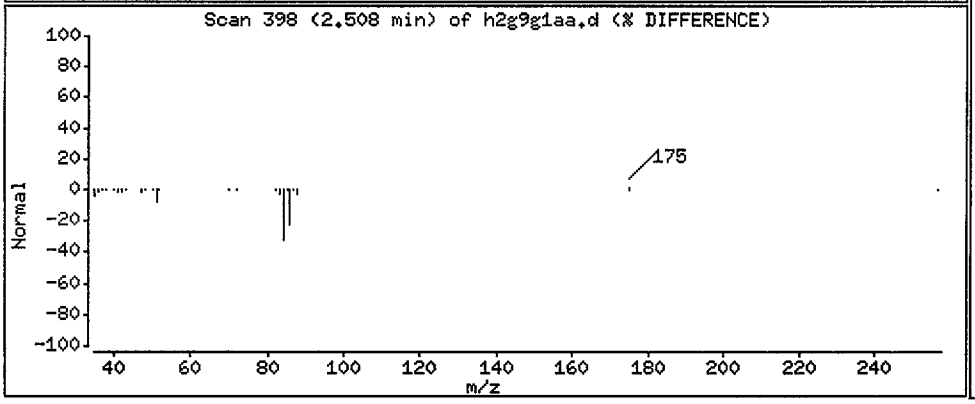
27 Methylene Chloride

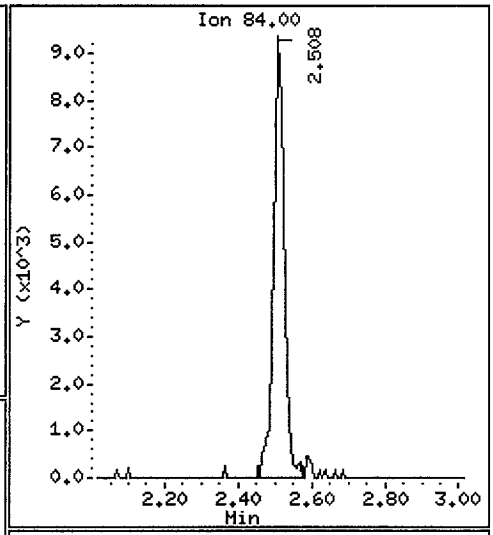
Concentration: 0.036166 ug

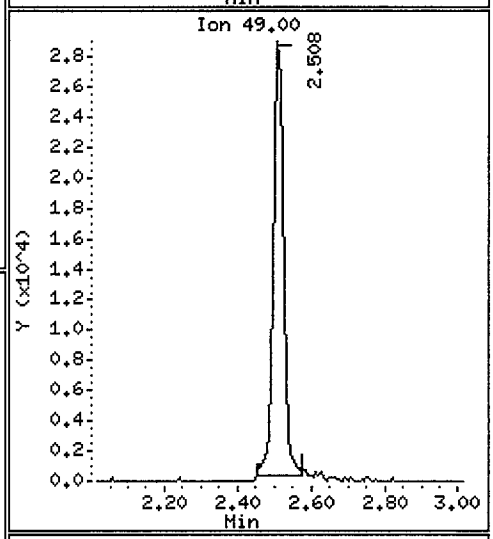


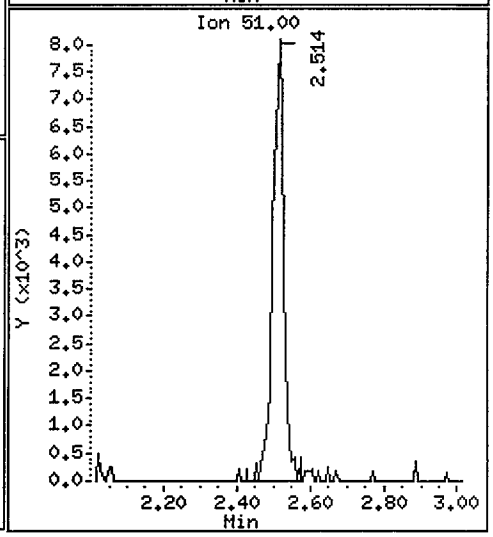












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

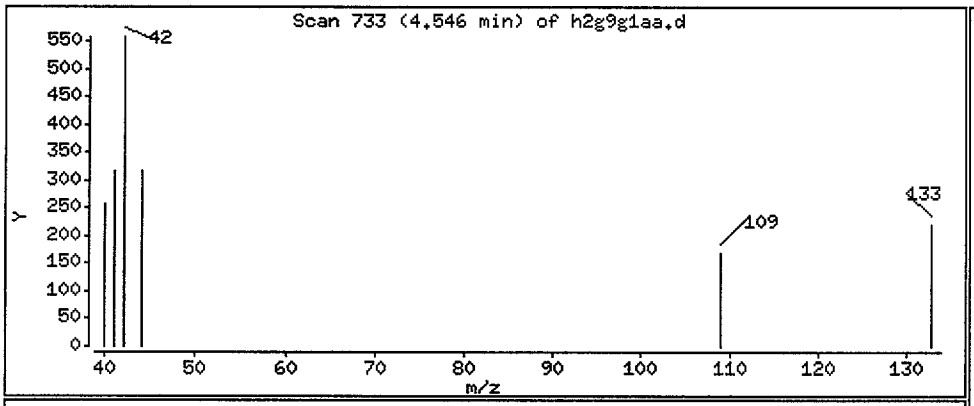
Operator: 22980

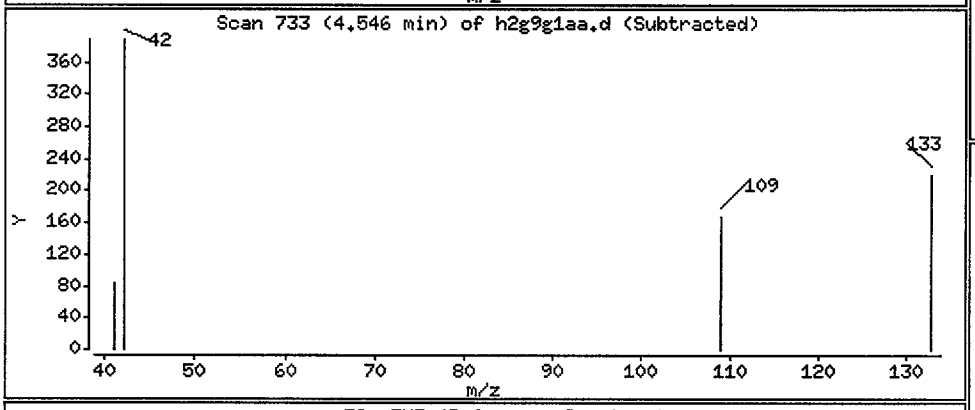
Column phase: J+W 624

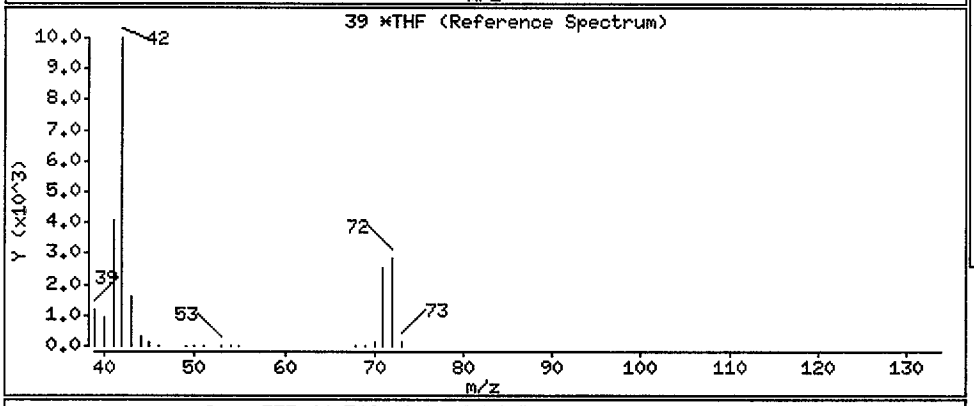
Column diameter: 0.18

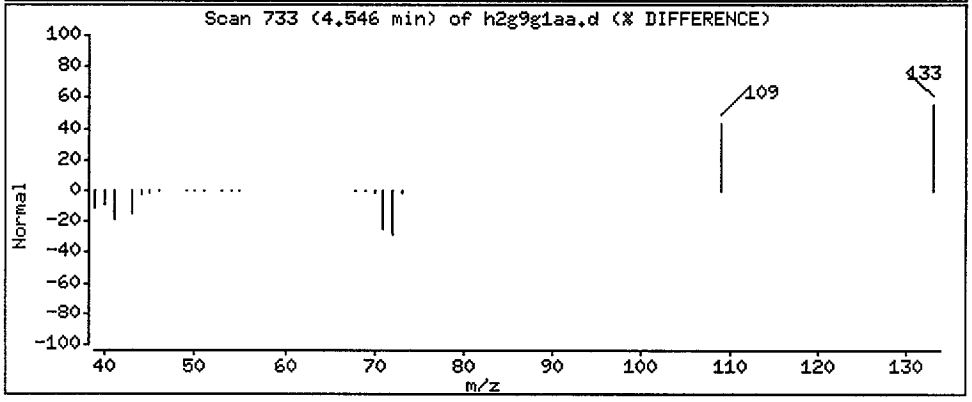
39 *THF

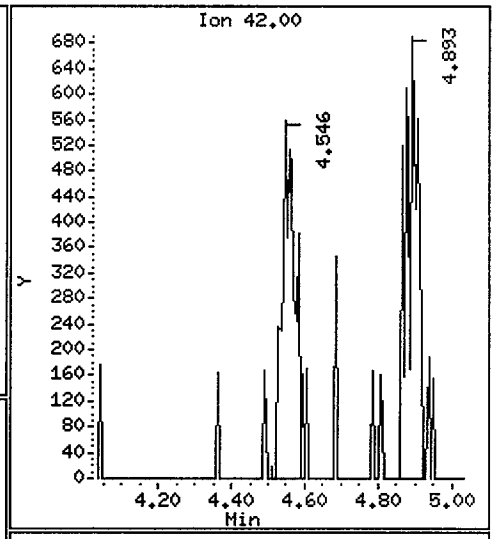
Concentration: 0.019348 ug

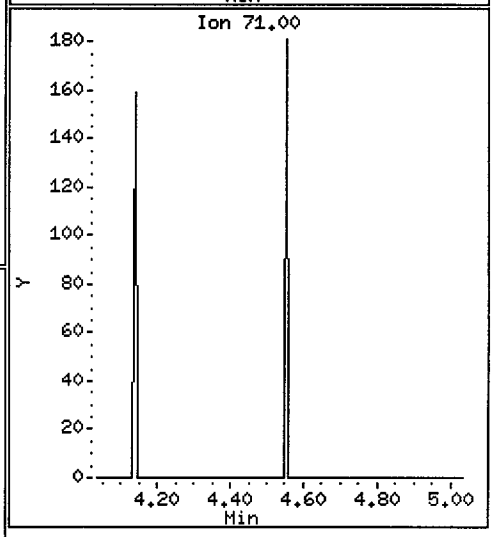












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

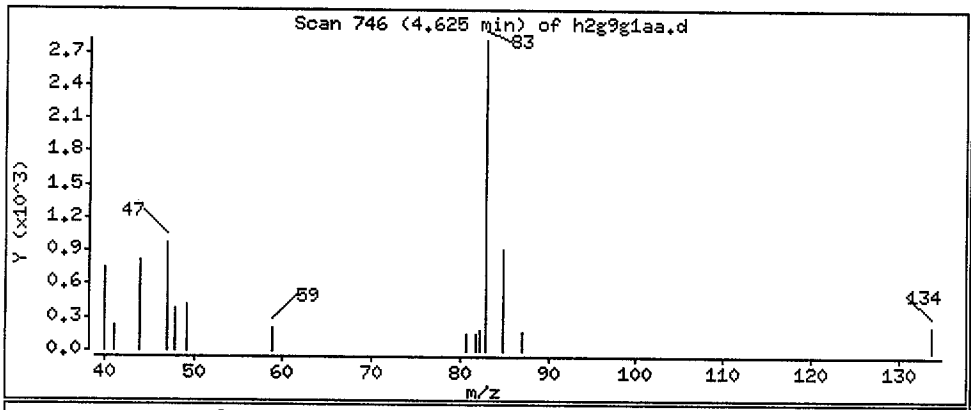
Operator: 22980

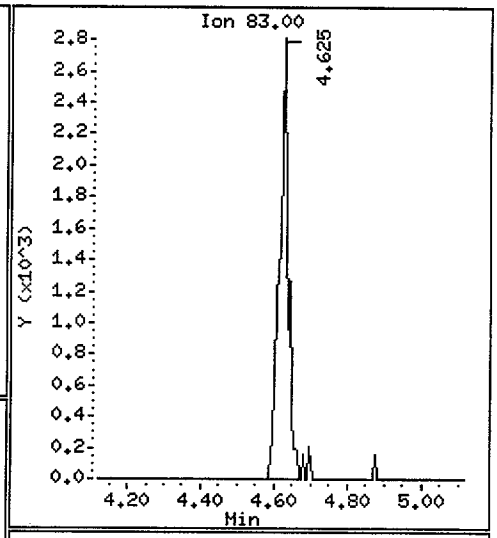
Column phase: J+W 624

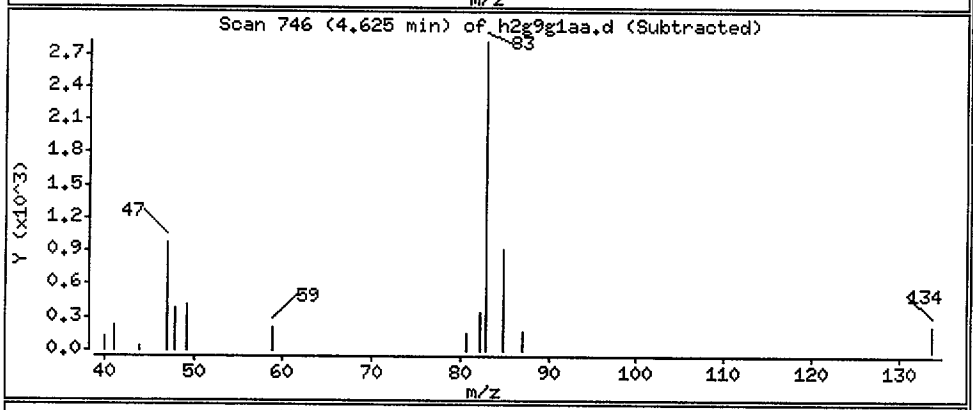
Column diameter: 0.18

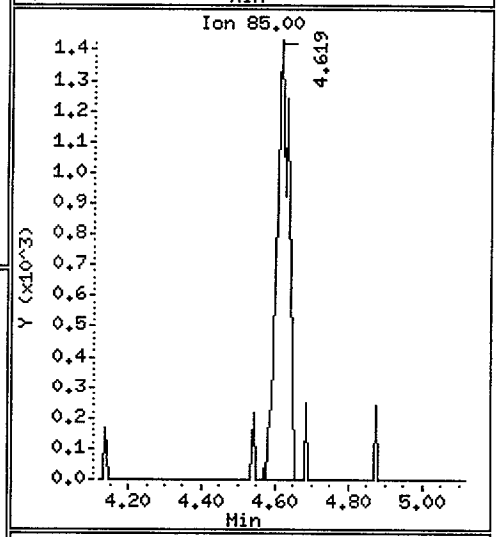
40 Chloroform (ccc)

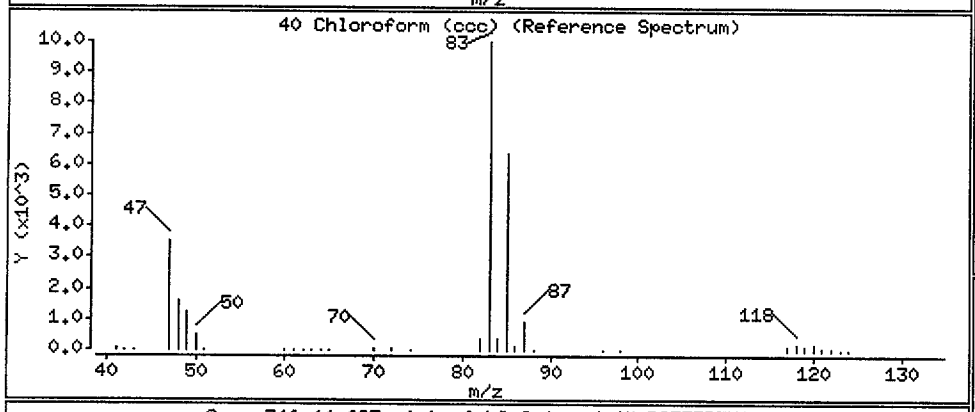
Concentration: 0.0041926 ug

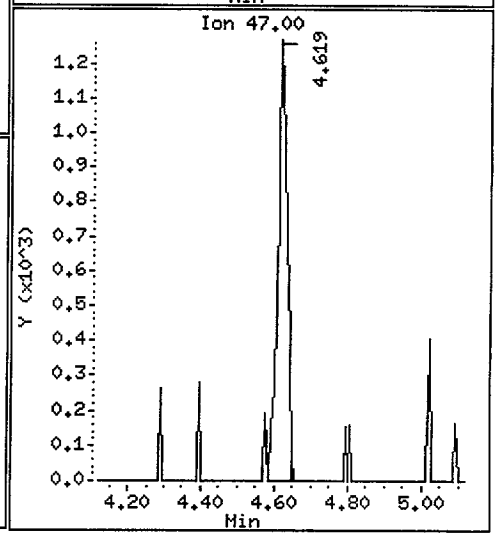


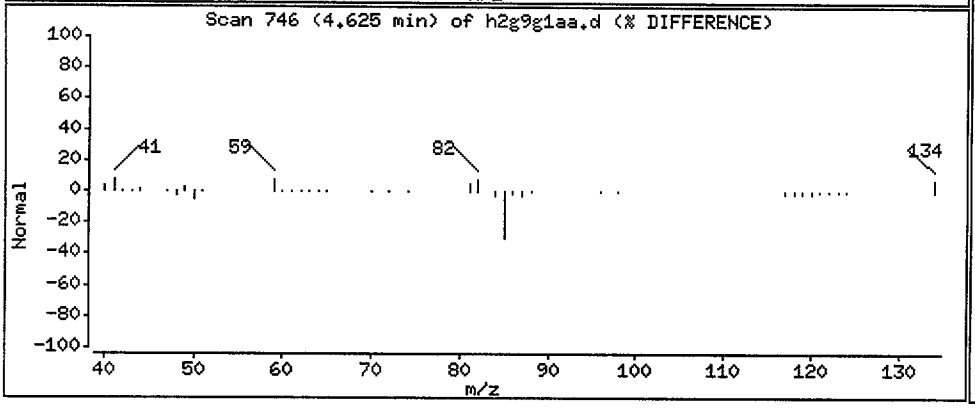












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

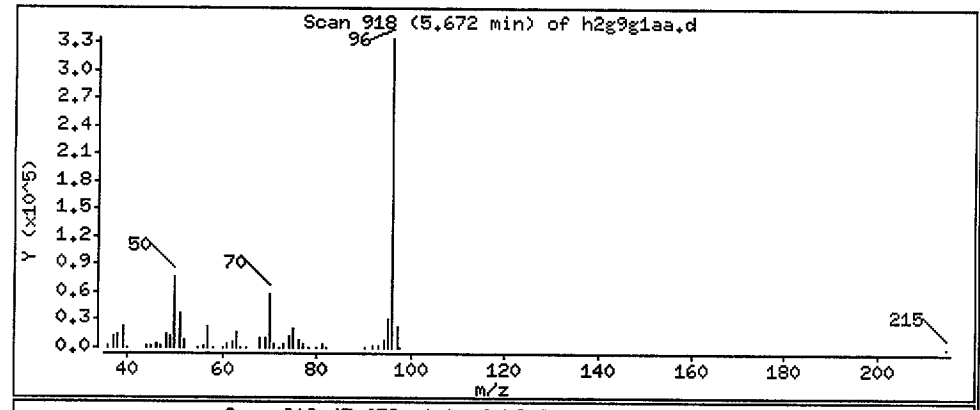
Operator: 22980

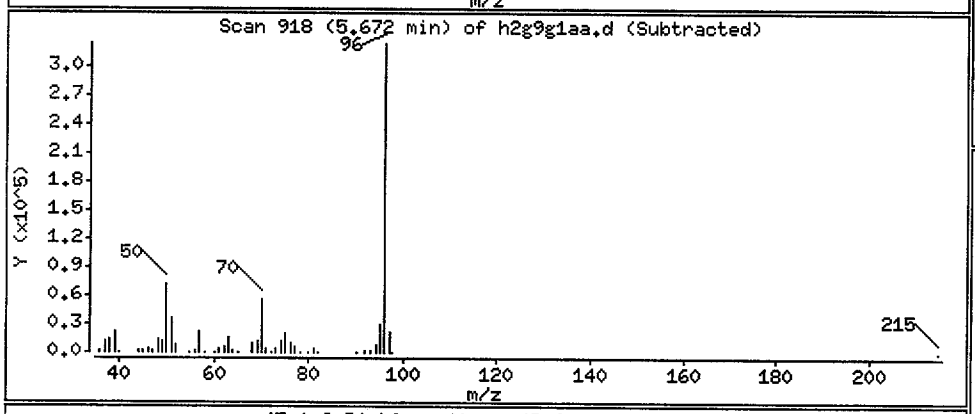
Column phase: J+W 624

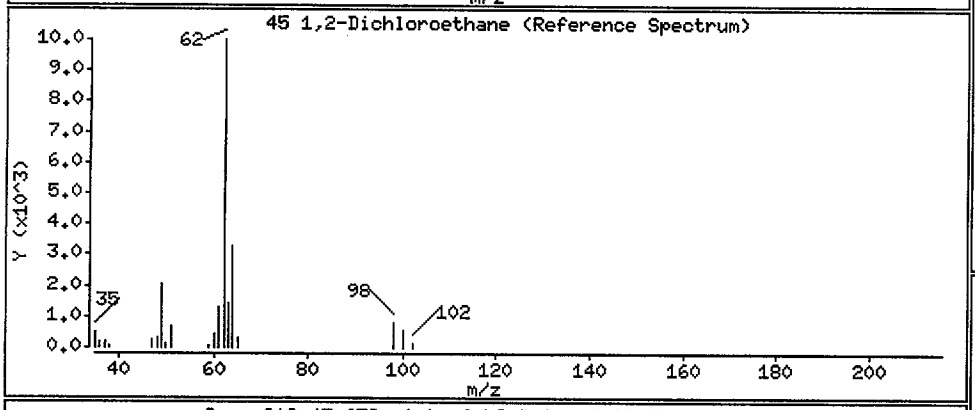
Column diameter: 0.18

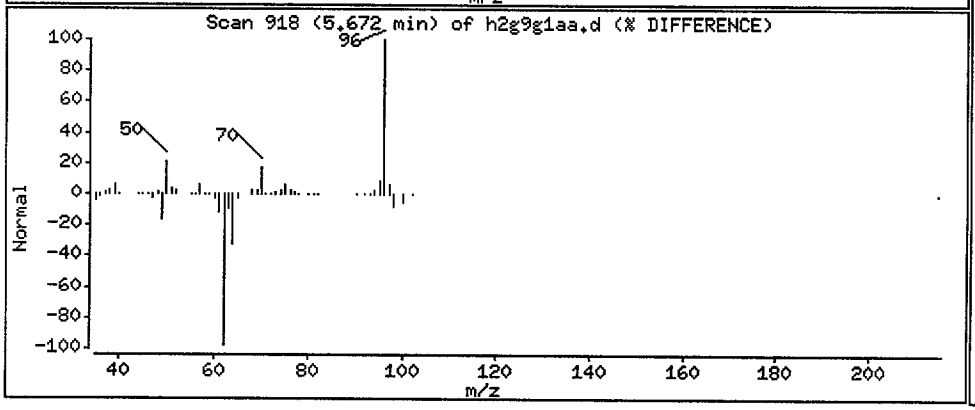
45 1,2-Dichloroethane

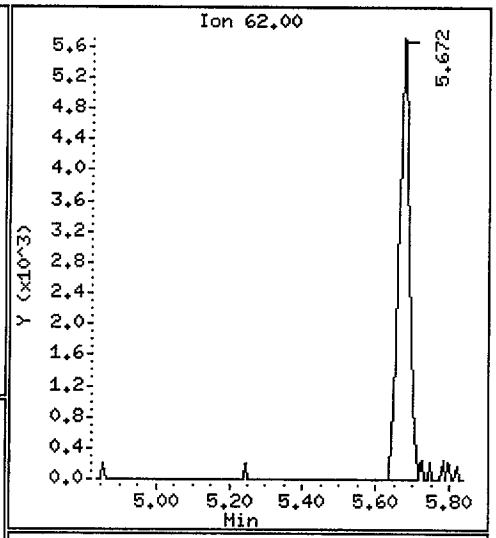
Concentration: 0.018676 ug

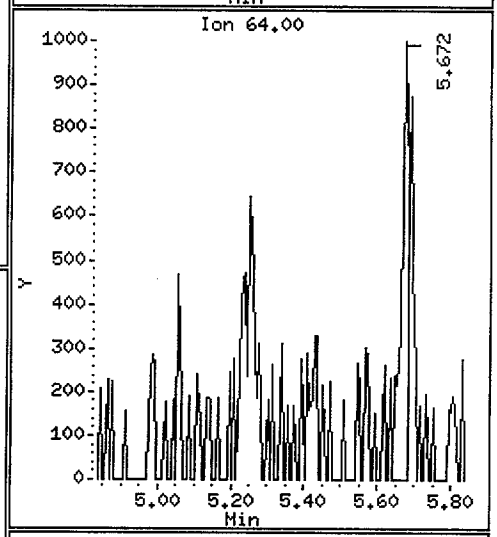


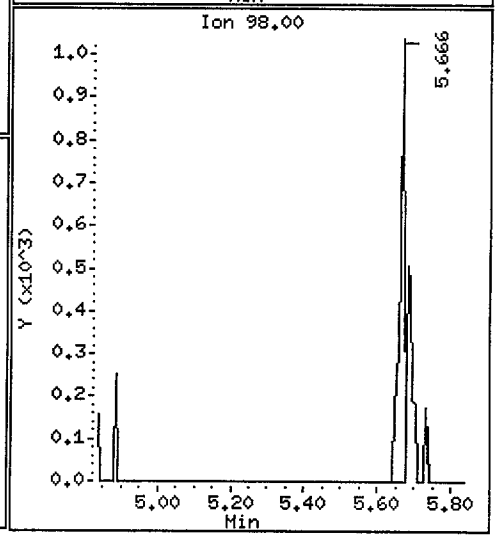












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

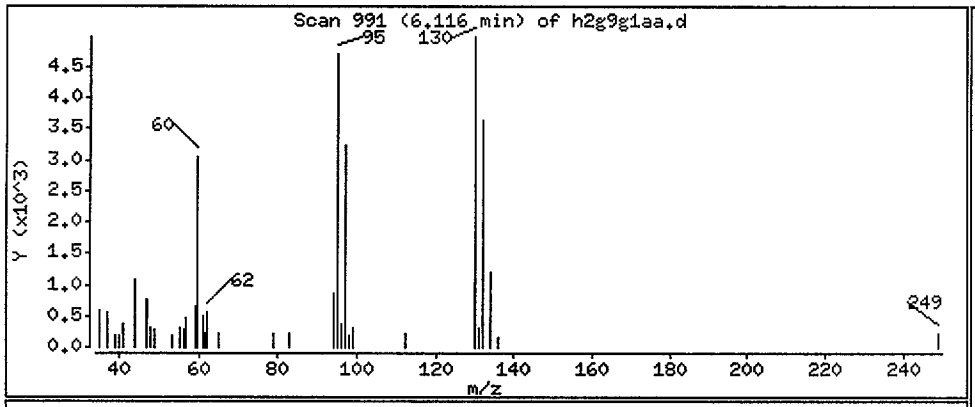
Operator: 22980

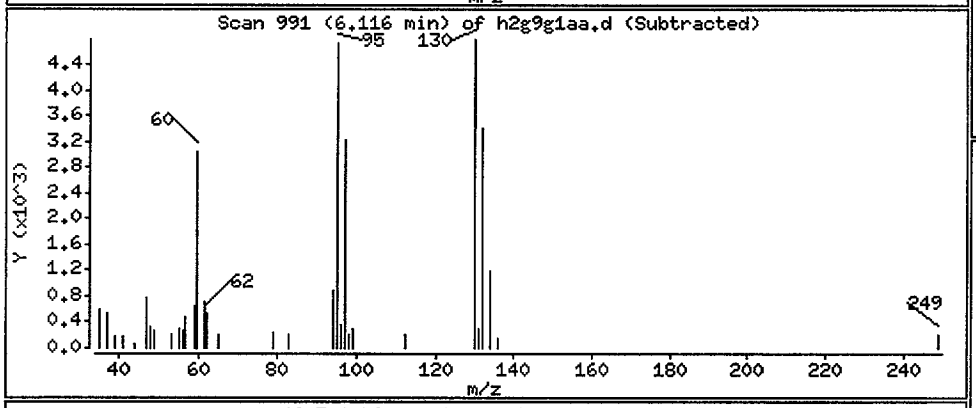
Column phase: J+W 624

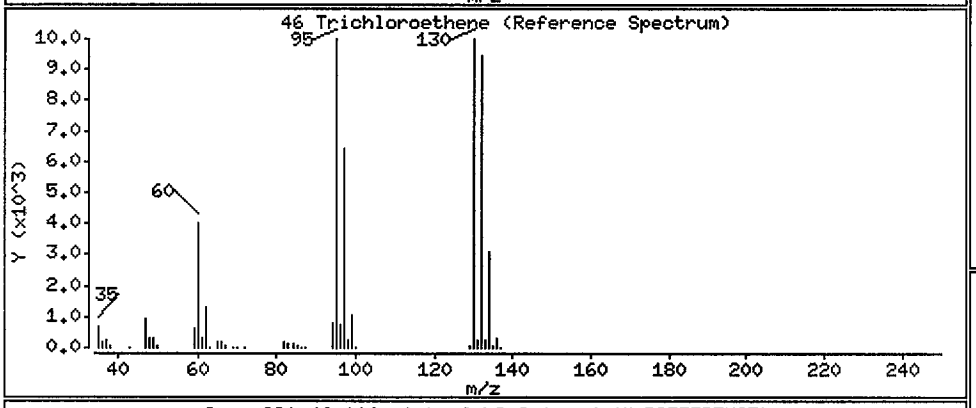
Column diameter: 0.18

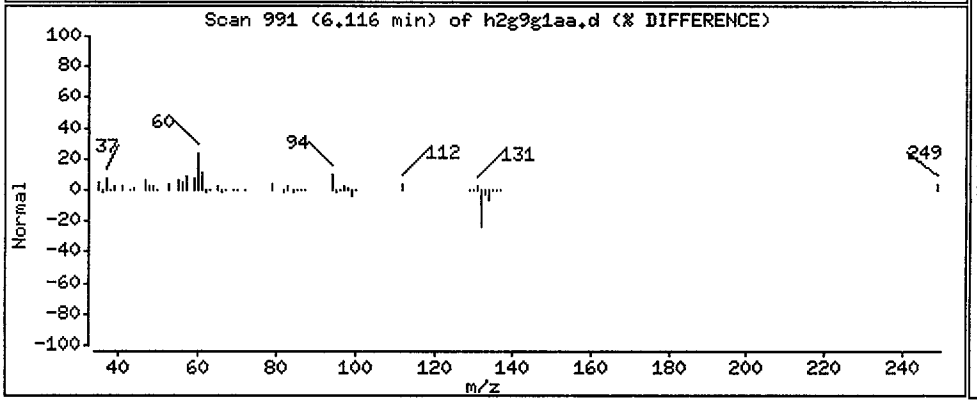
46 Trichloroethene

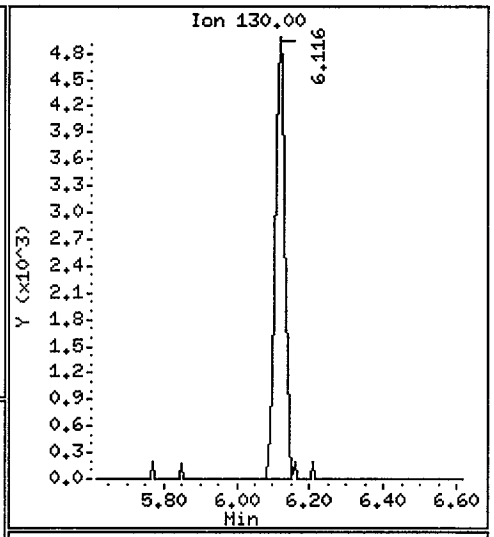
Concentration: 0.010642 ug

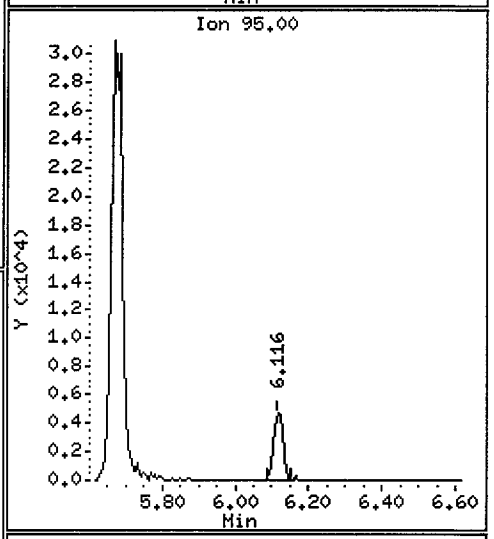


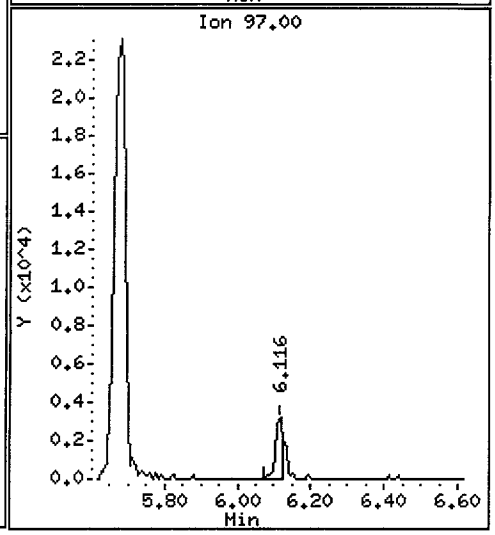












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

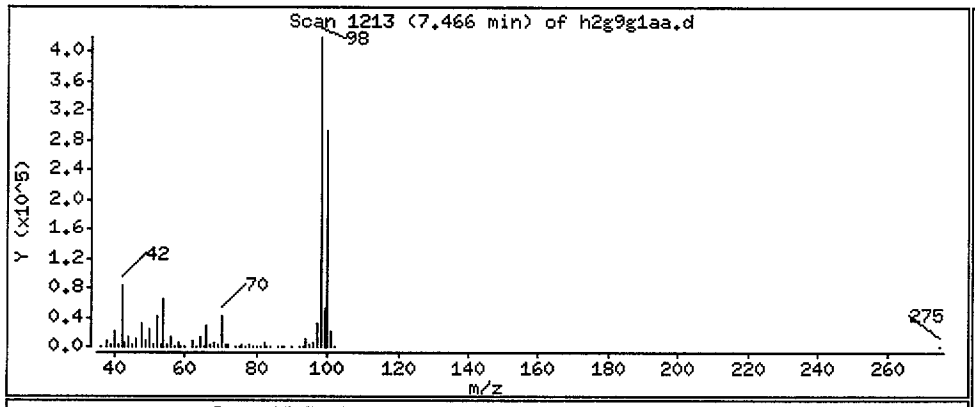
Operator: 22980

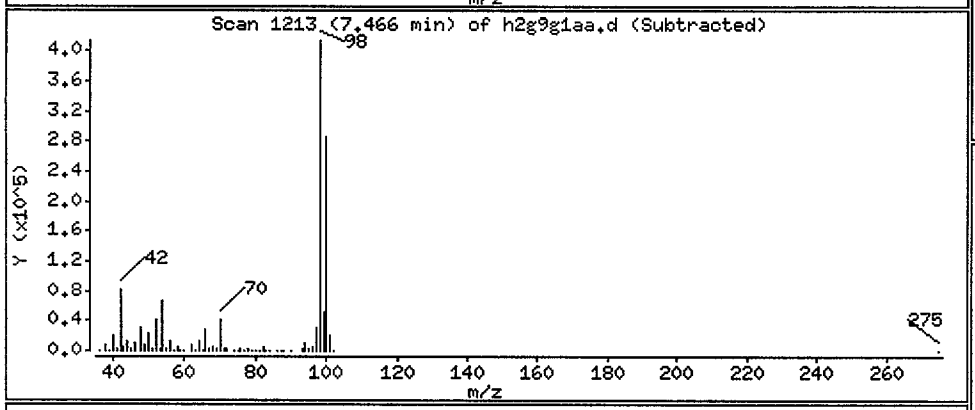
Column phase: J+W 624

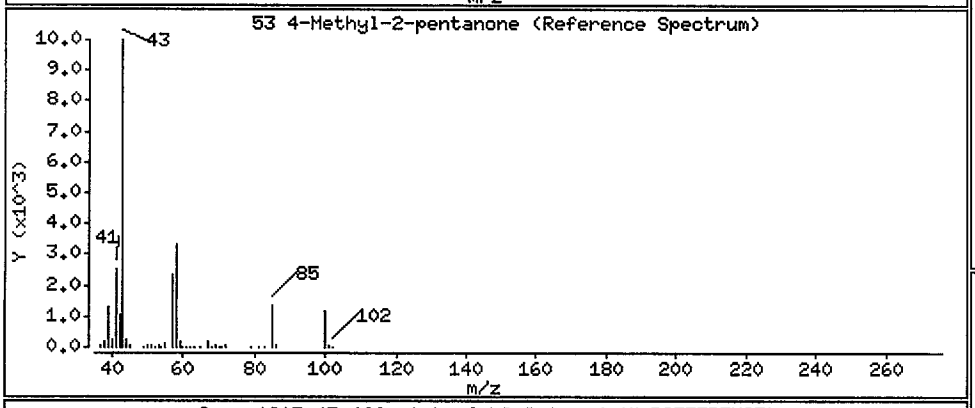
Column diameter: 0.18

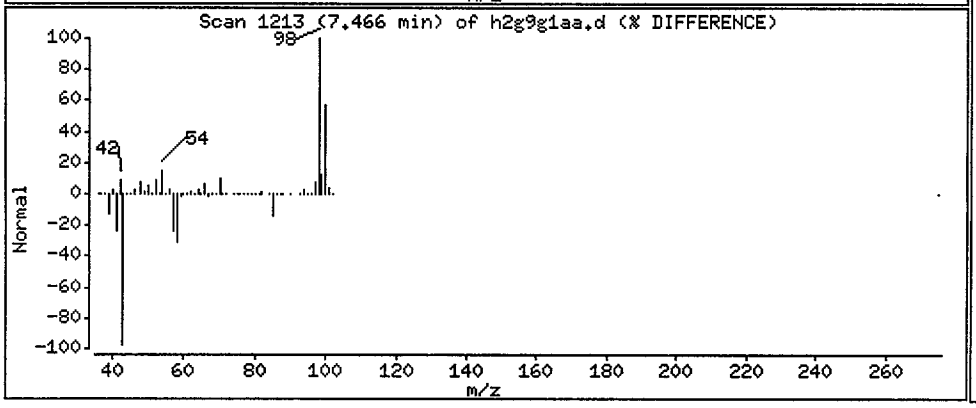
53 4-Methyl-2-pentanone

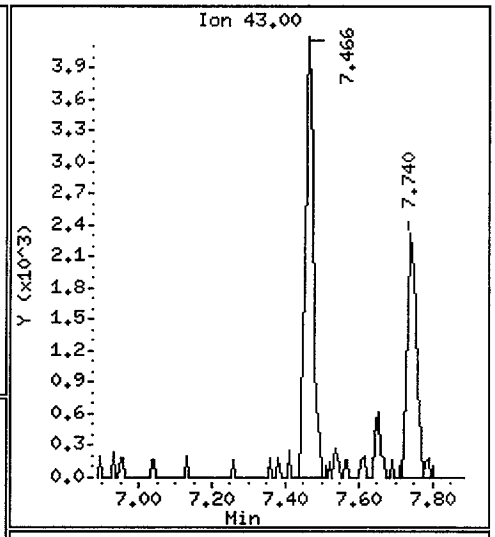
Concentration: 0.023500 ug

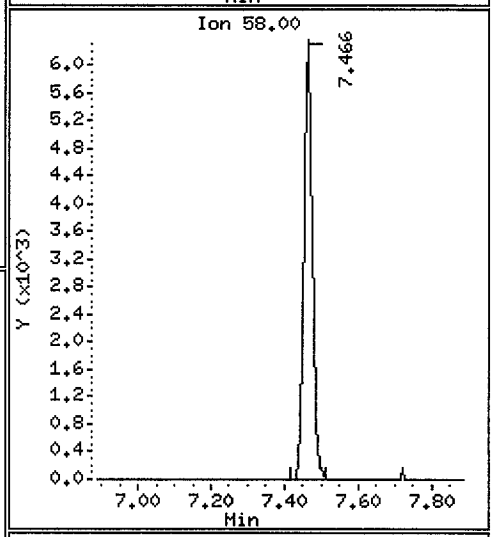


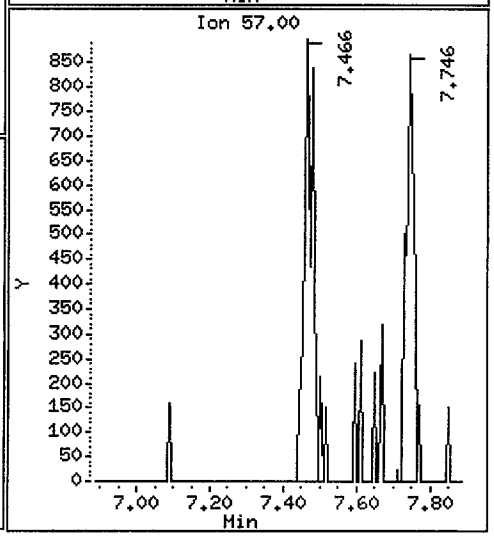












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

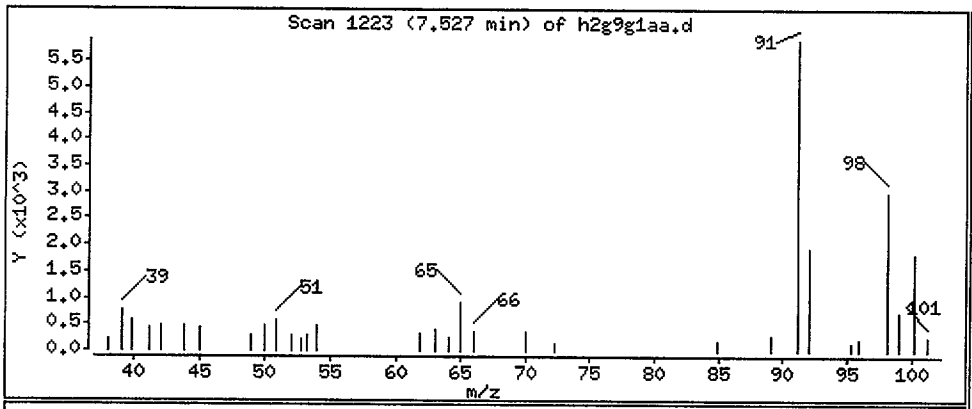
Operator: 22980

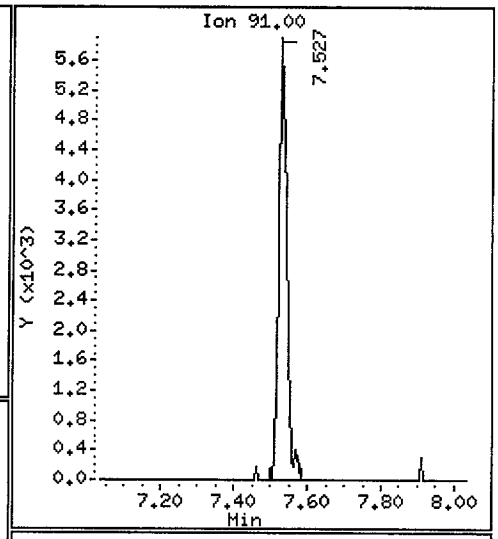
Column phase: J+W 624

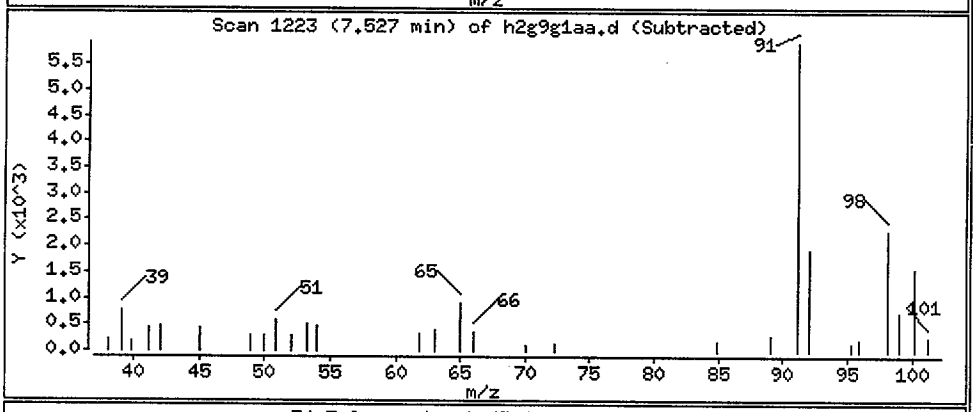
Column diameter: 0.18

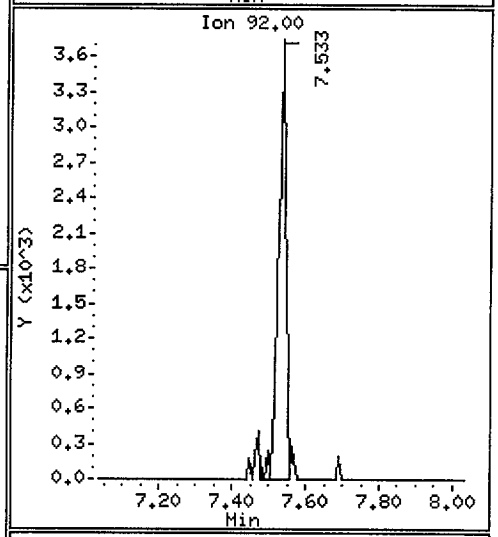
54 Toluene (ccc)

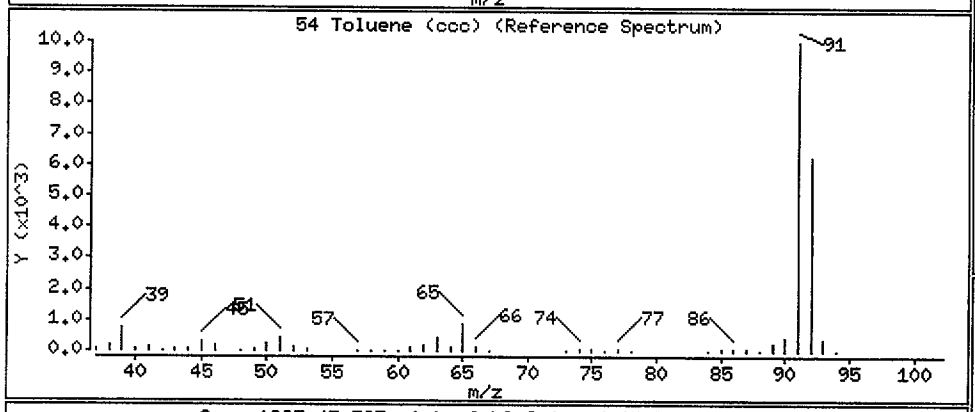
Concentration: 0.0021435 ug

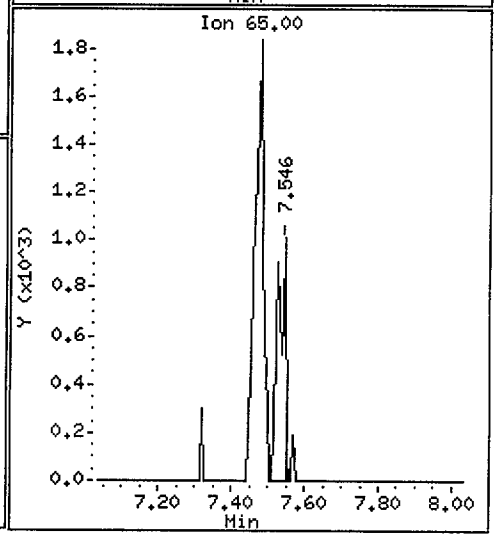


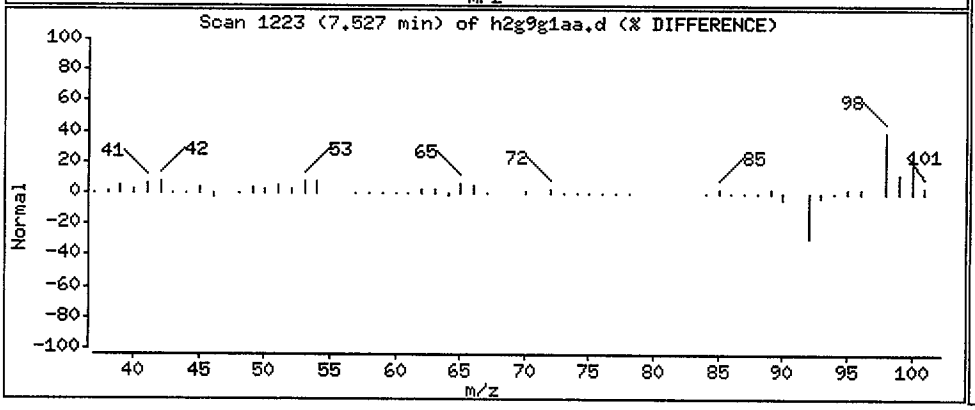












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

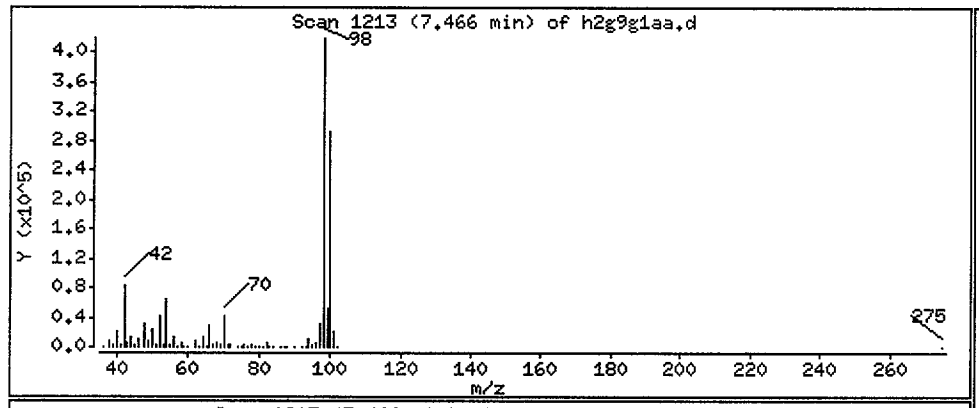
Operator: 22980

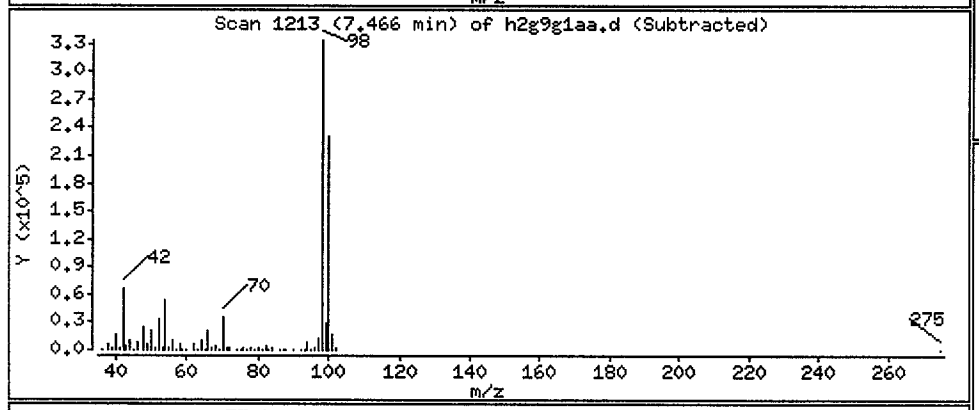
Column phase: J+W 624

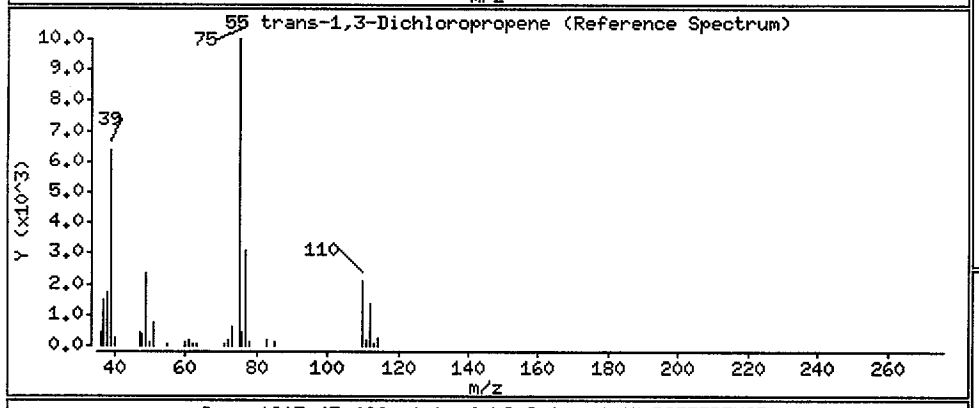
Column diameter: 0.18

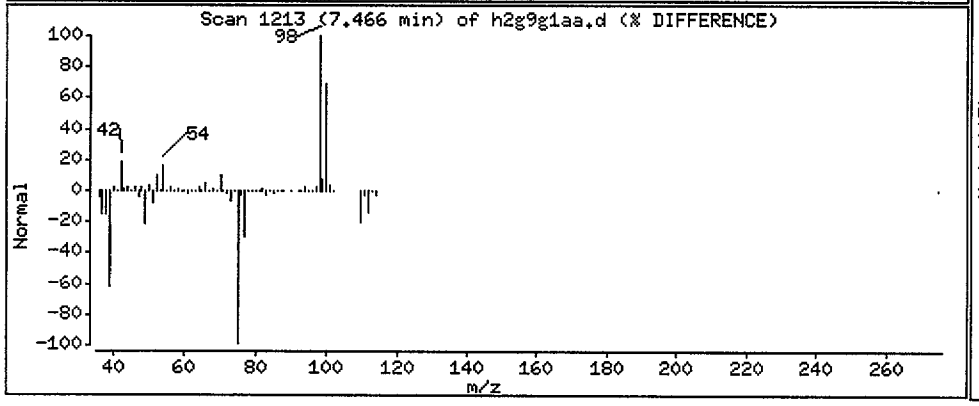
55 trans-1,3-Dichloropropene

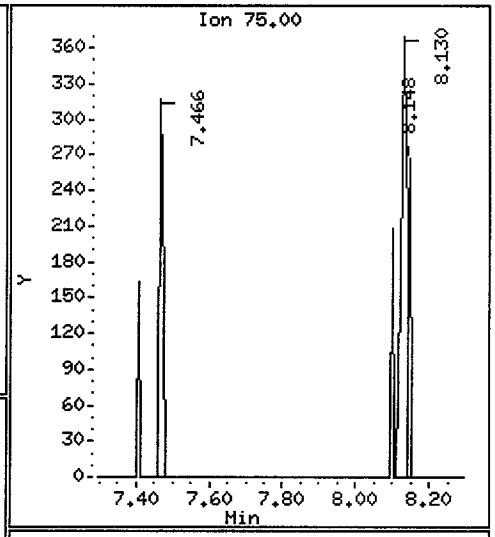
Concentration: 0.015973 ug

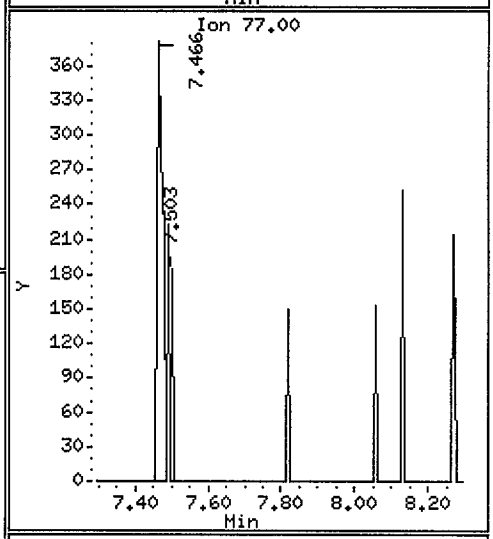


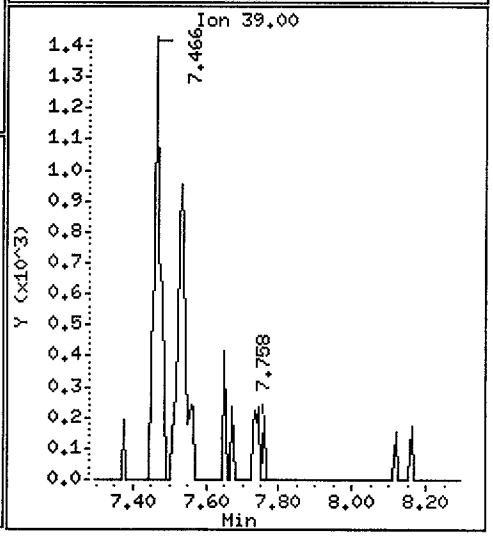












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

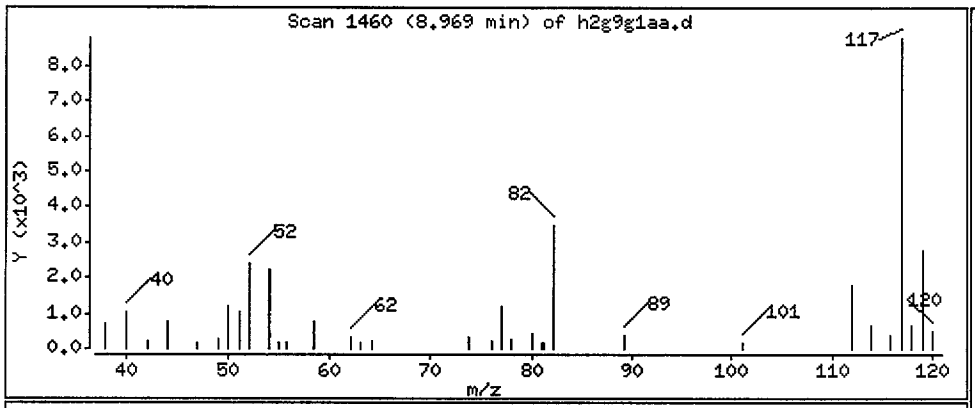
Operator: 22980

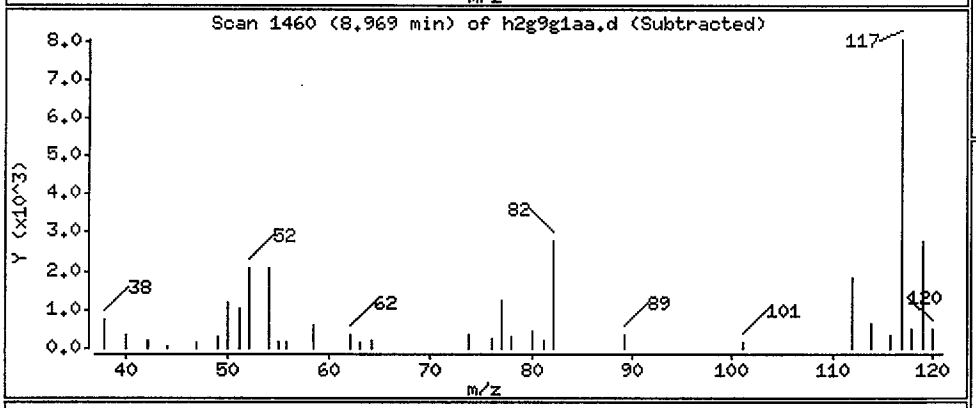
Column phase: J+W 624

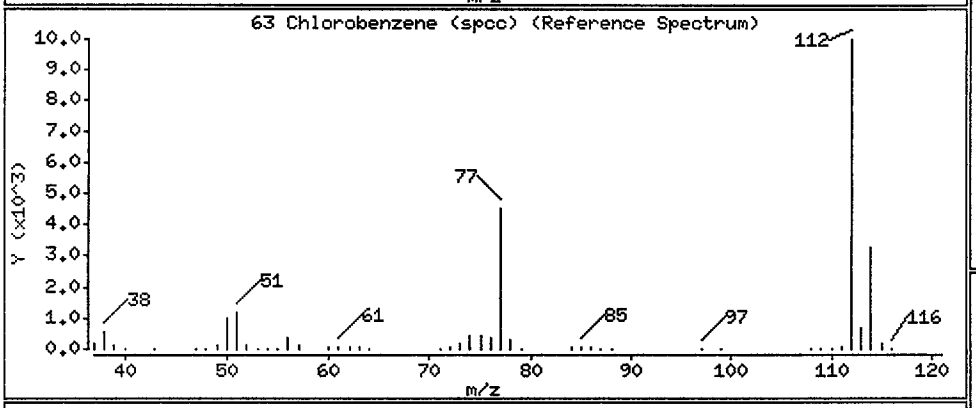
Column diameter: 0.18

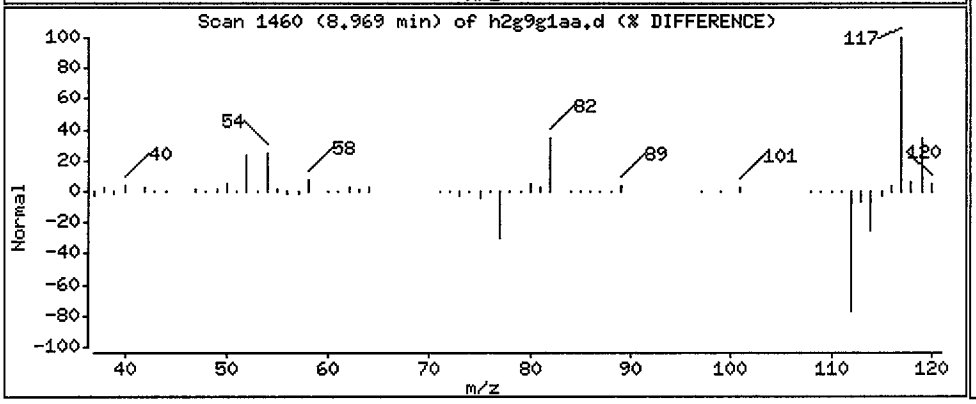
63 Chlorobenzene (spcc)

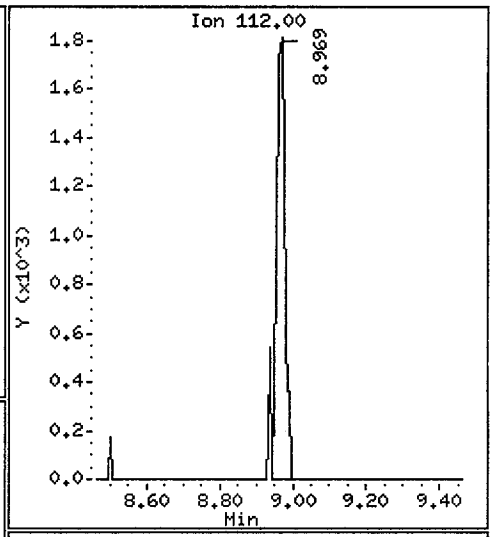
Concentration: 0.0012615 ug

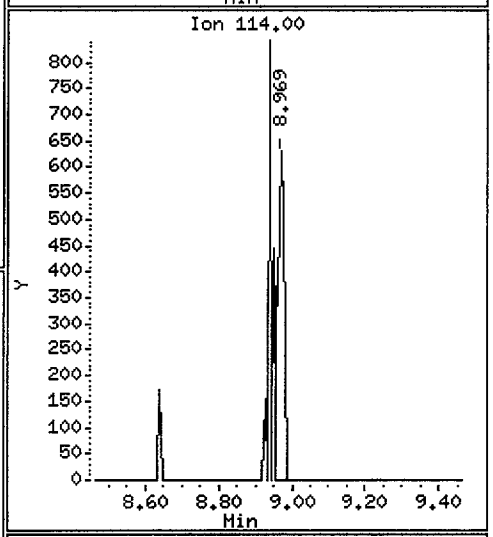


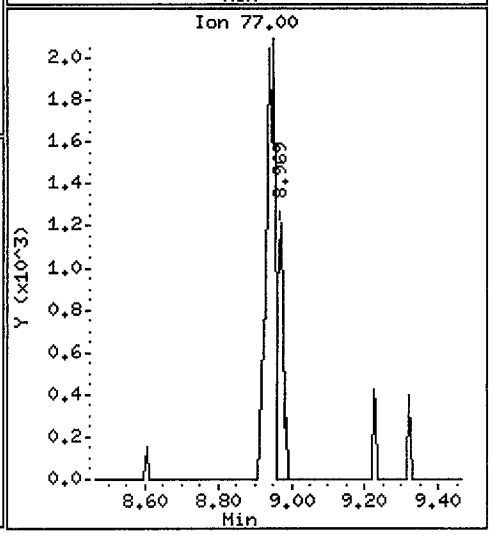












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

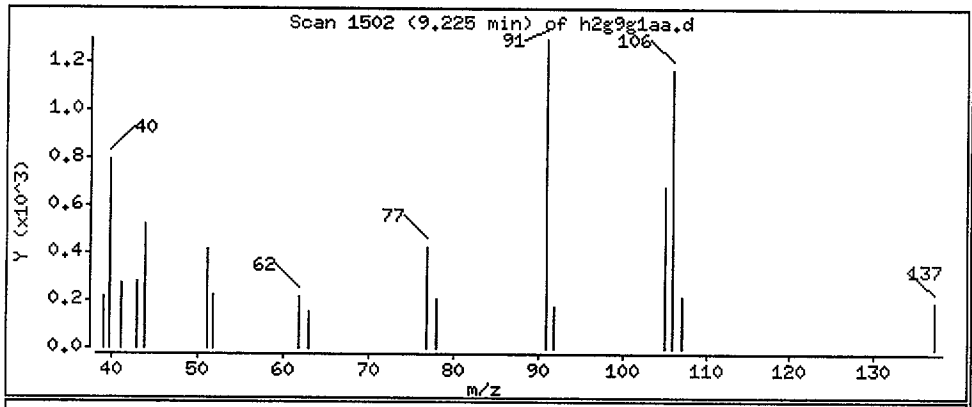
Operator: 22980

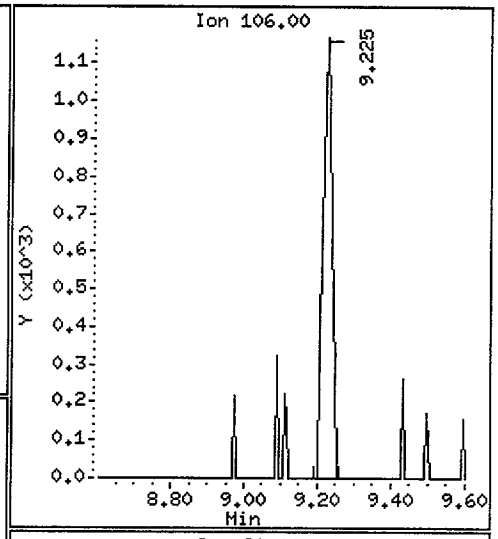
Column phase: J+W 624

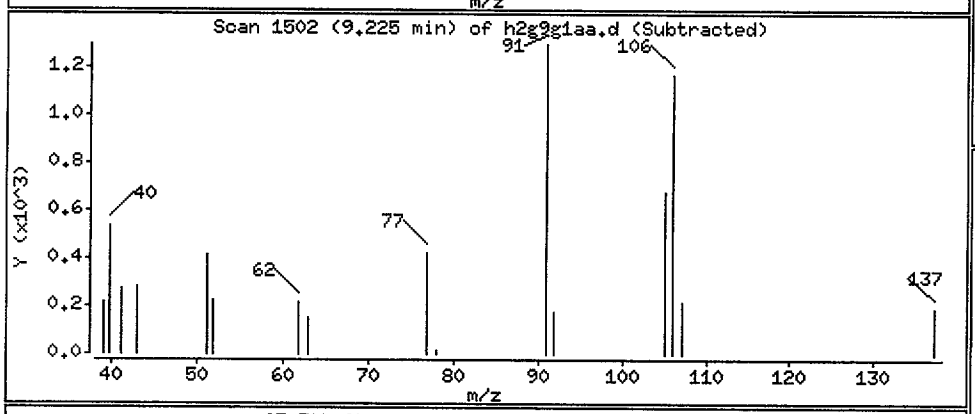
Column diameter: 0.18

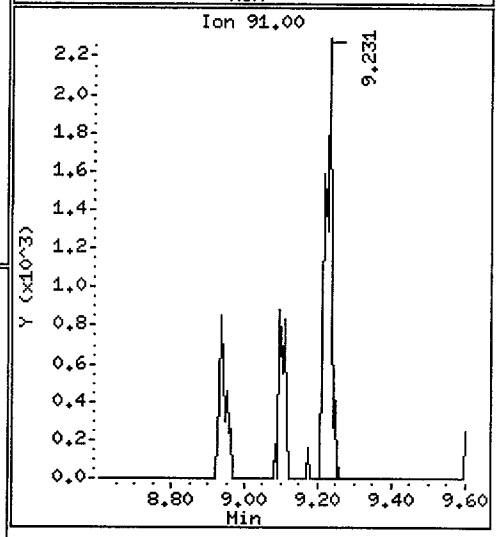
65 Ethylbenzene (ccc)

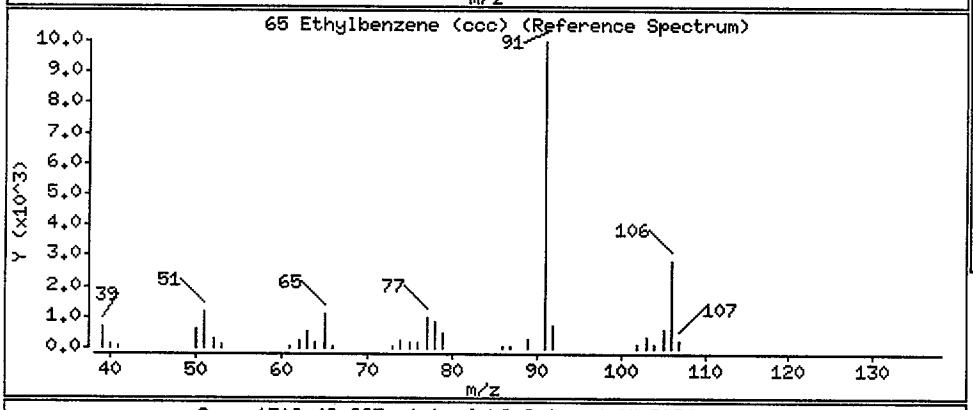
Concentration: 0.0013994 ug

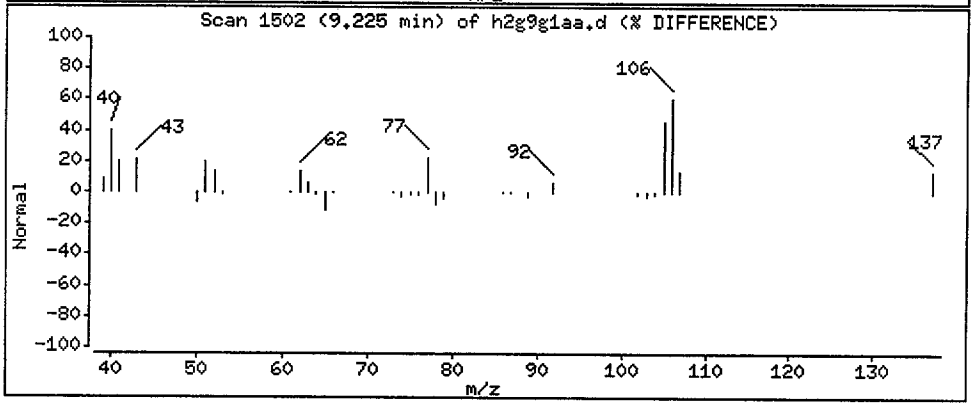












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

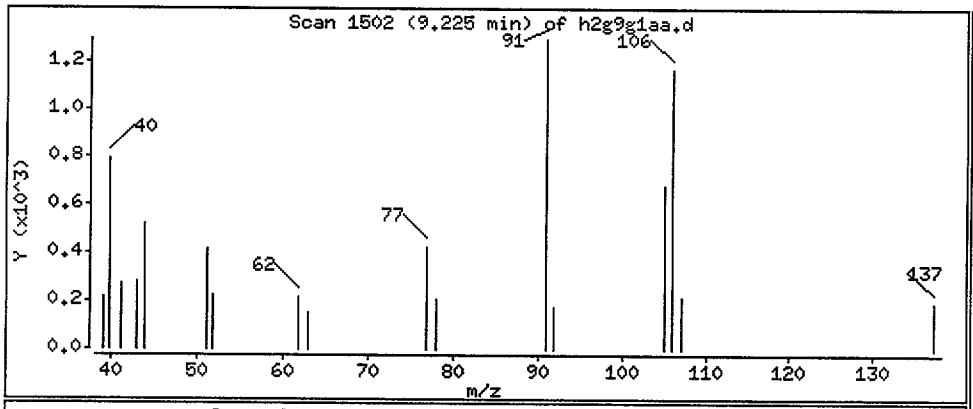
Operator: 22980

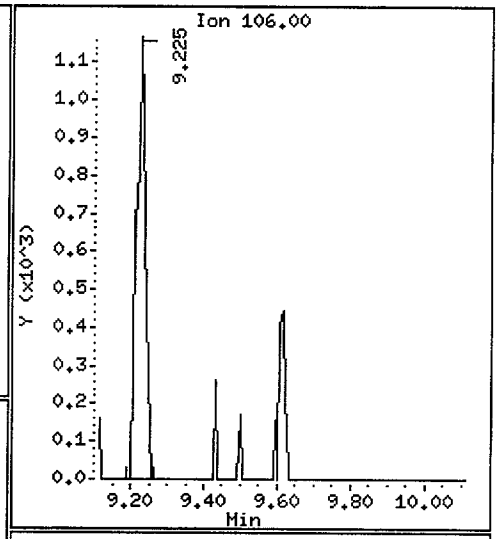
Column phase: J+W 624

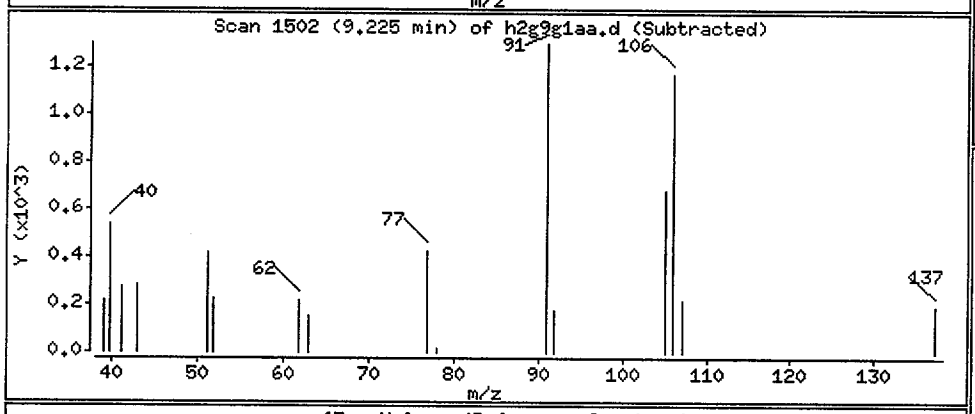
Column diameter: 0.18

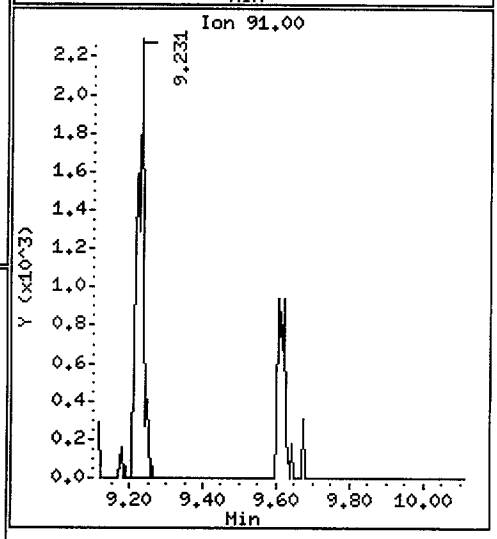
67 o-Xylene

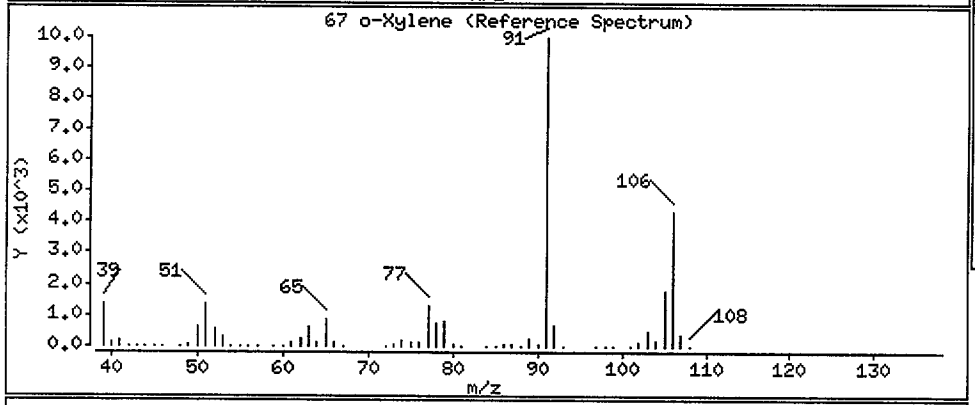
Concentration: 0.0013106 ug

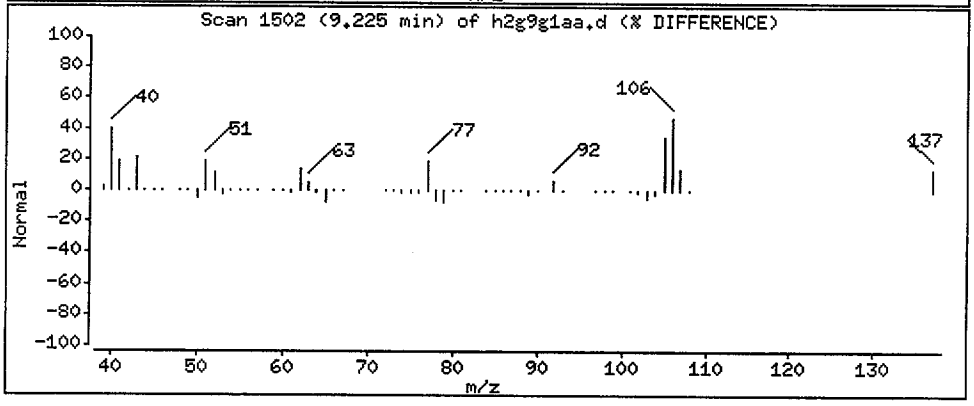












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

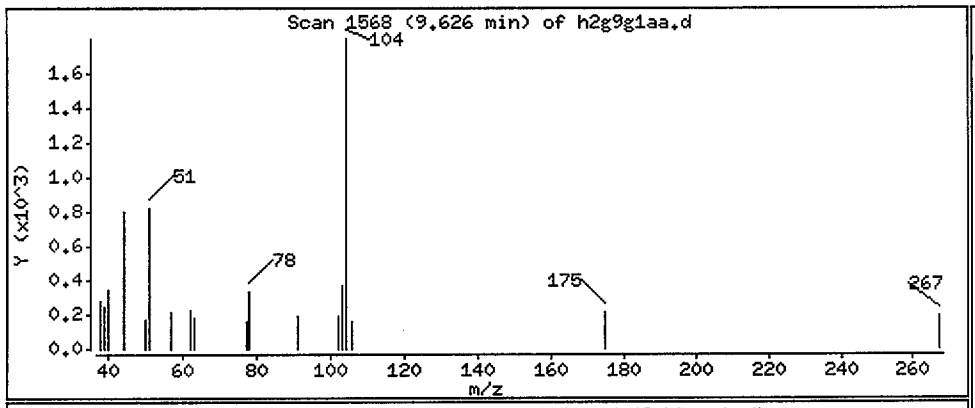
Operator: 22980

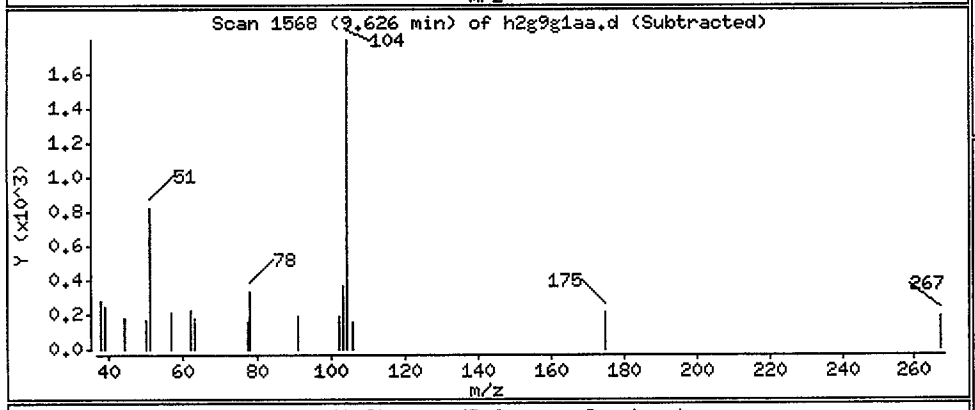
Column phase: J+W 624

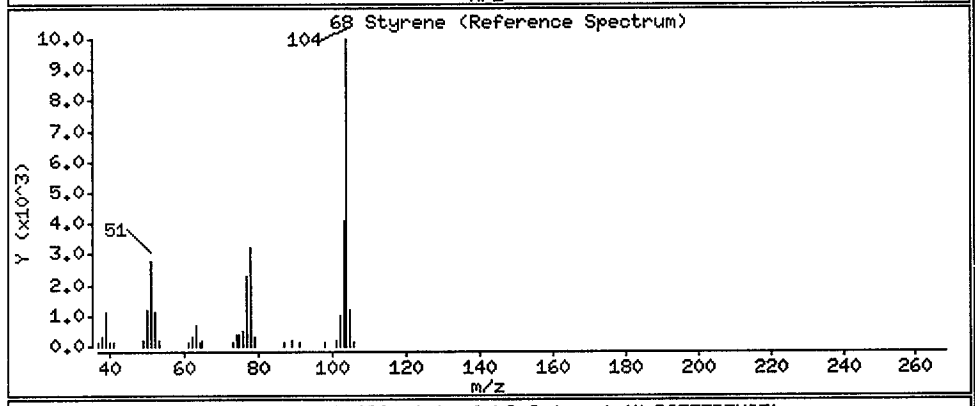
Column diameter: 0.18

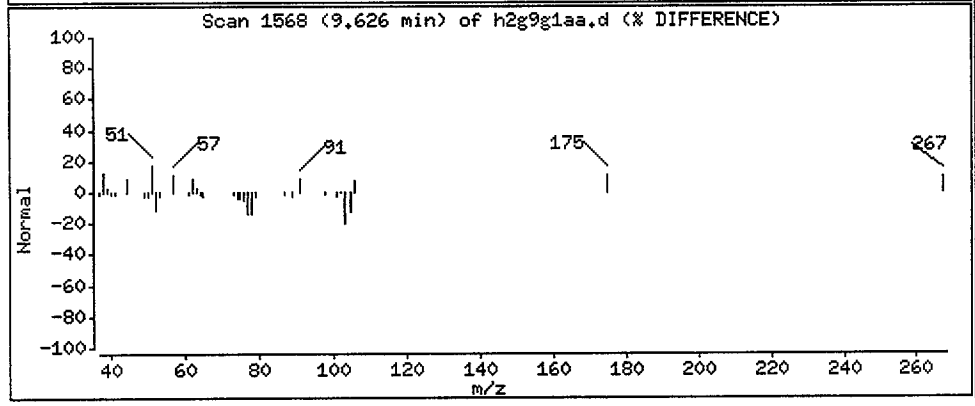
68 Styrene

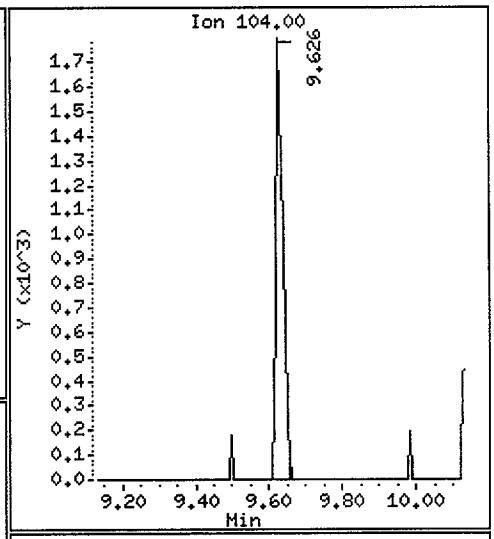
Concentration: 0.0010428 ug

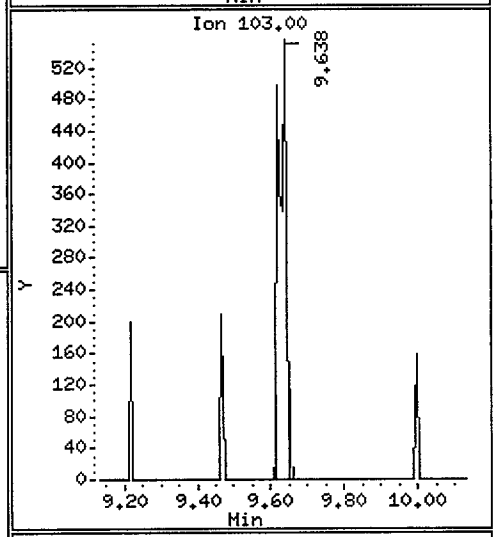


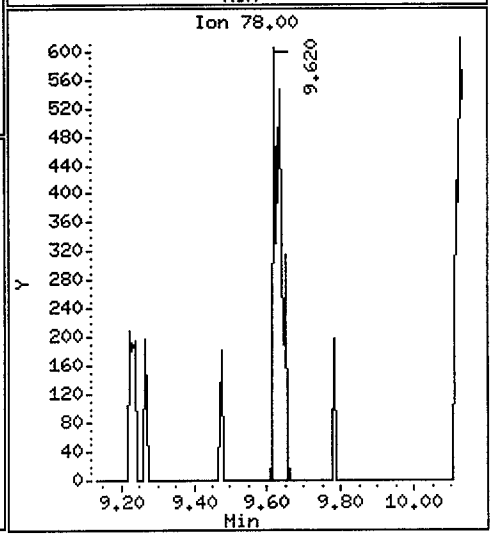












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

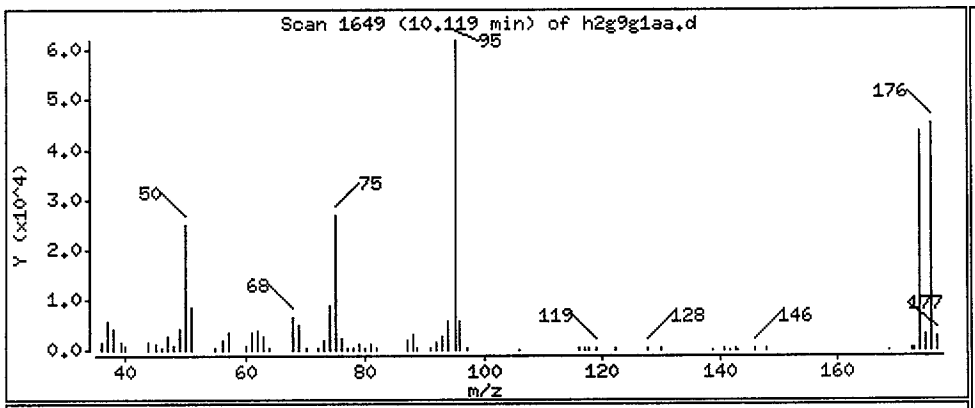
Operator: 22980

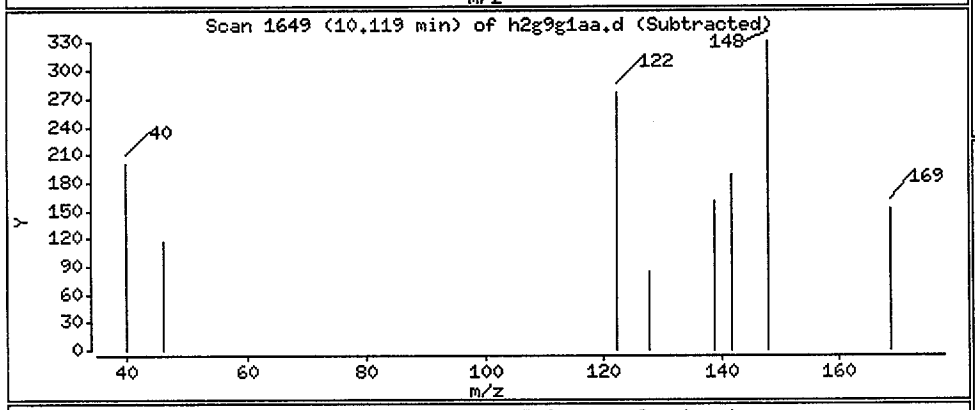
Column phase: J+W 624

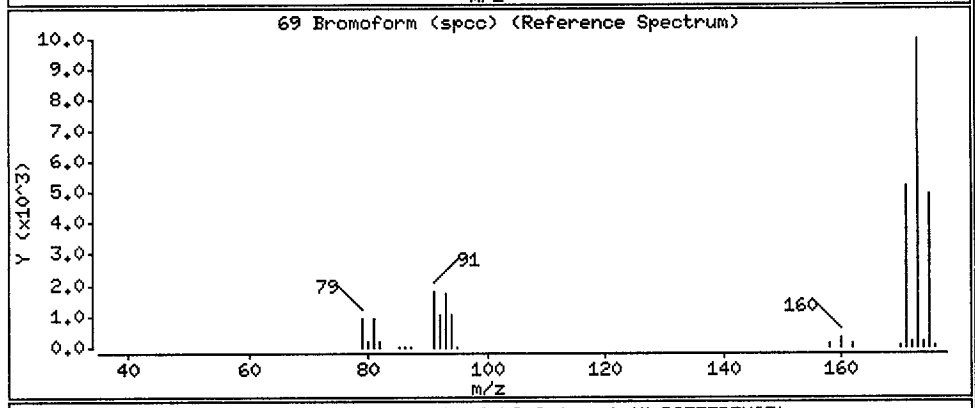
Column diameter: 0.18

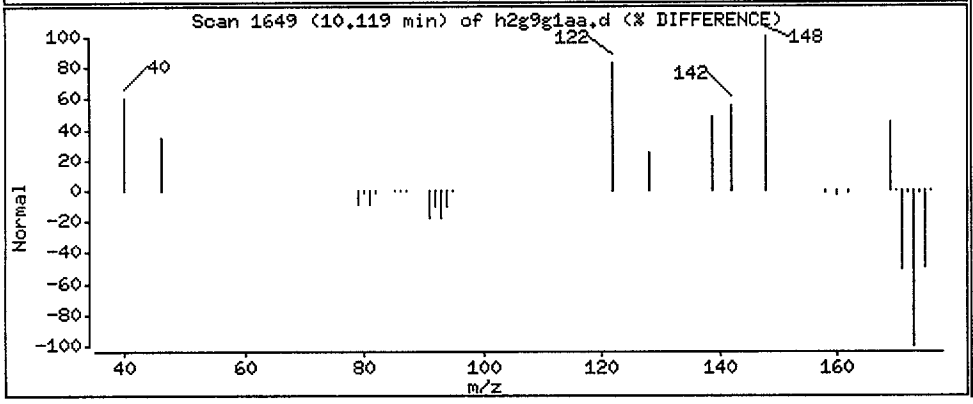
69 Bromoform (spcc)

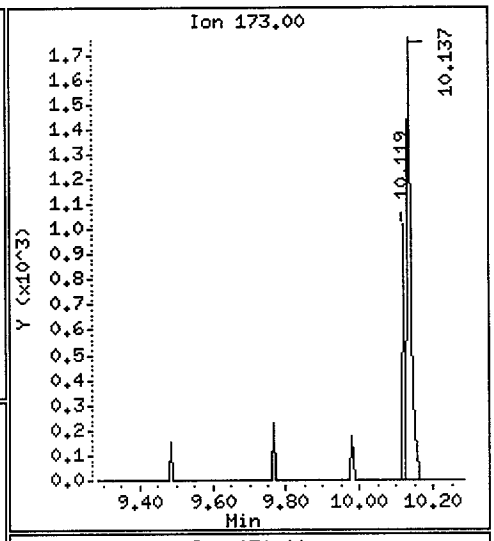
Concentration: 0.023450 ug

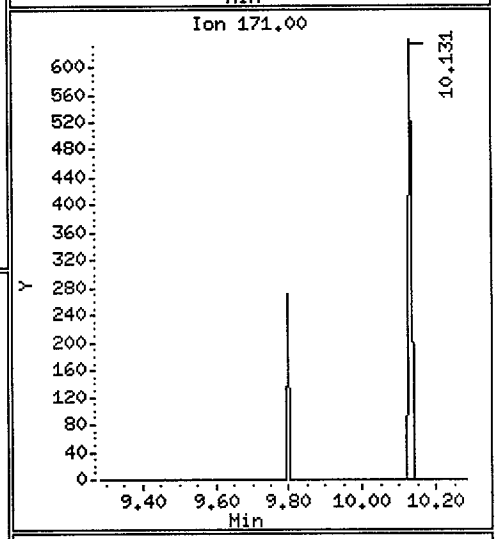


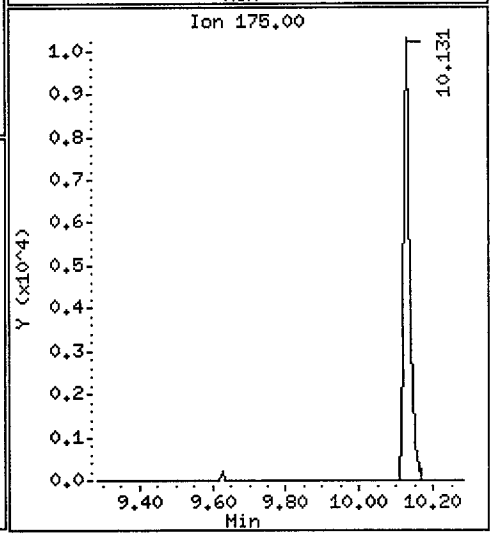












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

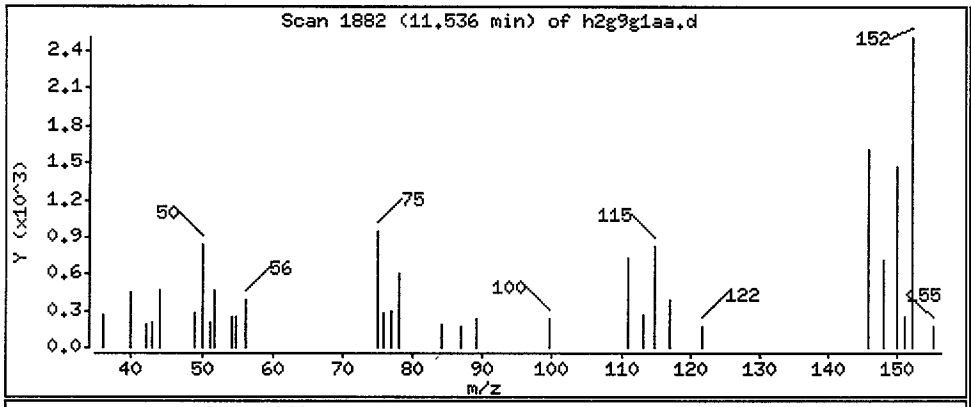
Operator: 22980

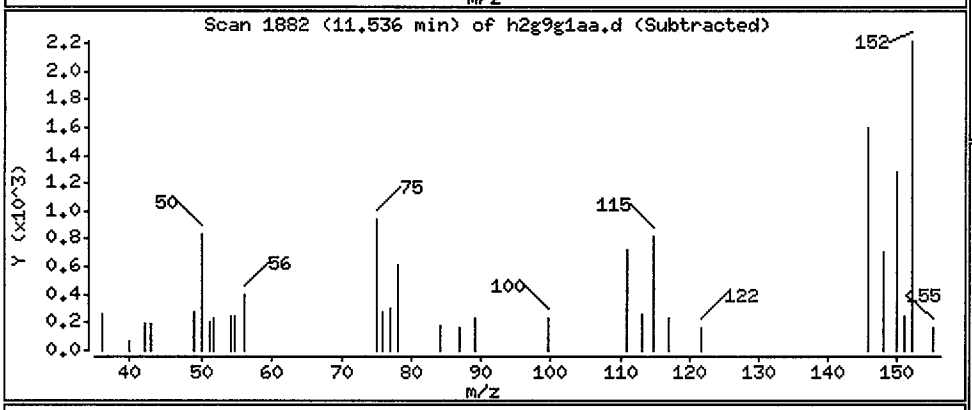
Column phase: J+W 624

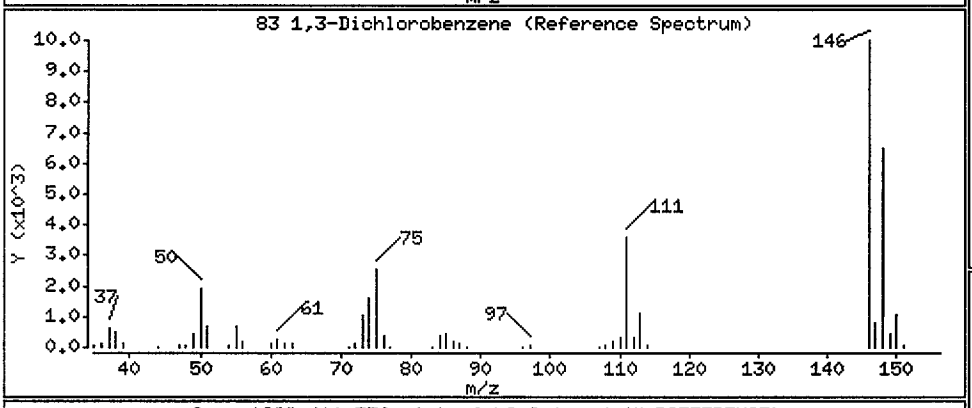
Column diameter: 0.18

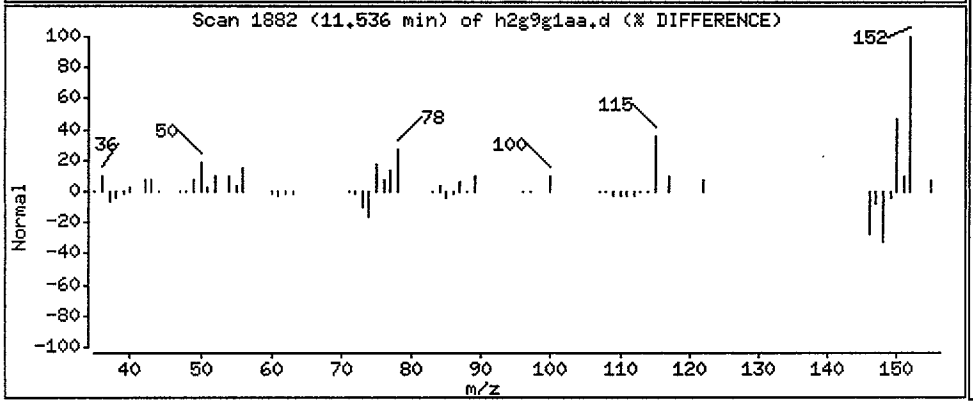
83 1,3-Dichlorobenzene

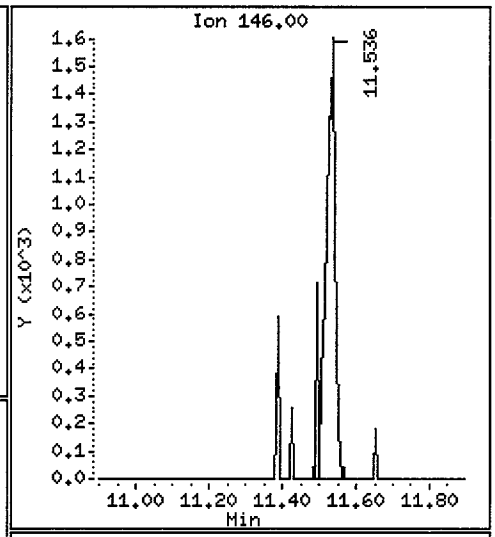
Concentration: 0.0018767 ug

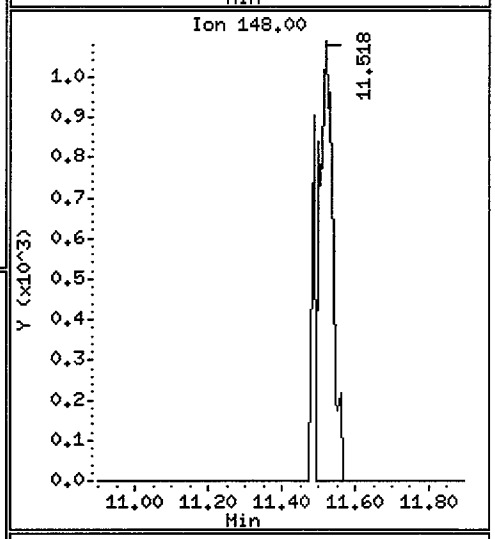


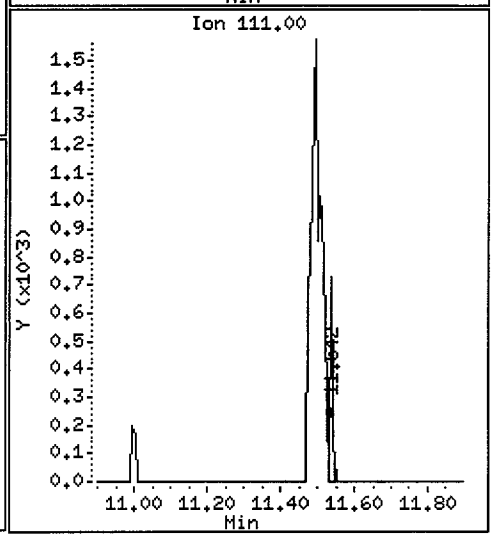












Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

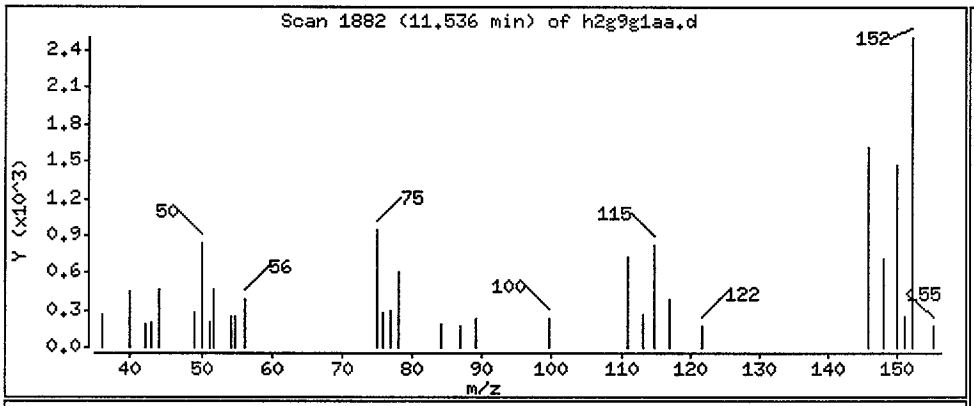
Operator: 22980

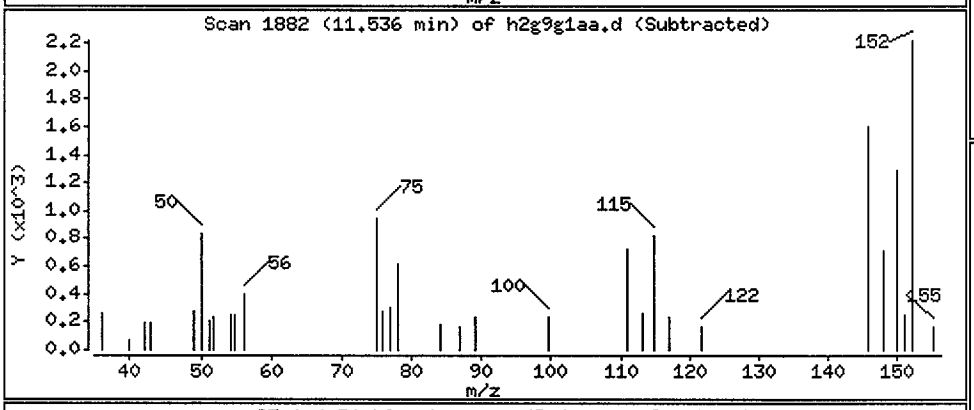
Column phase: J+W 624

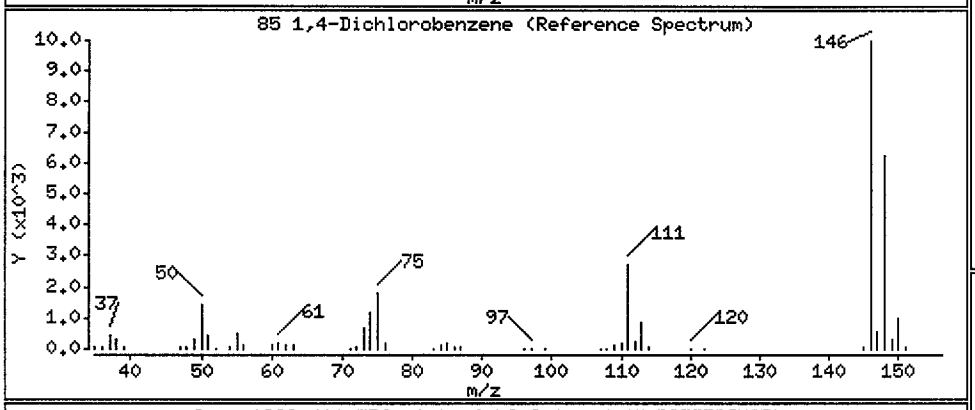
Column diameter: 0.18

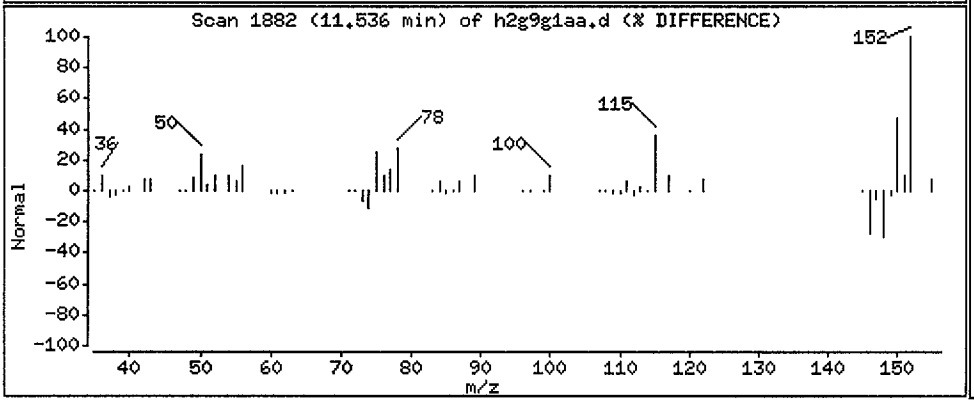
85 1,4-Dichlorobenzene

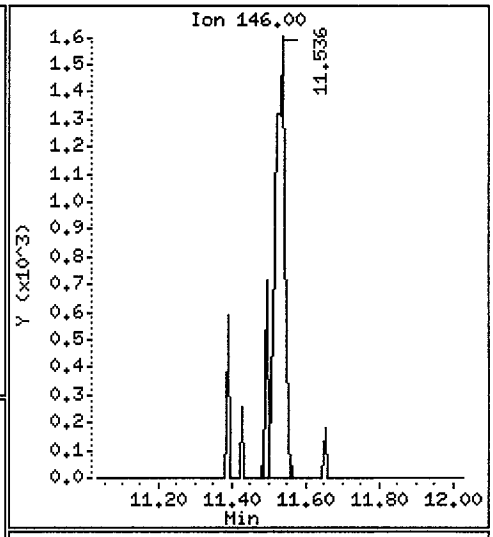
Concentration: 0.0020176 ug

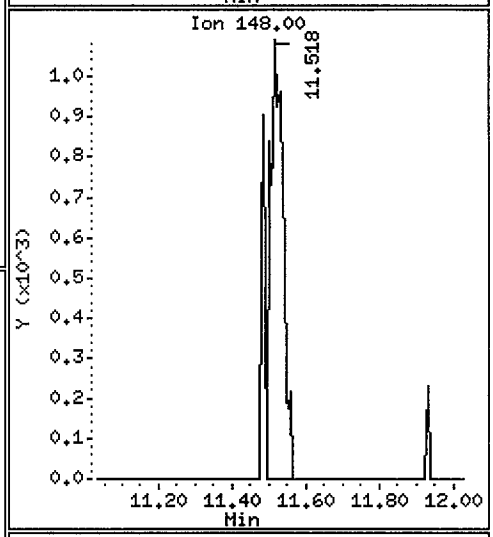


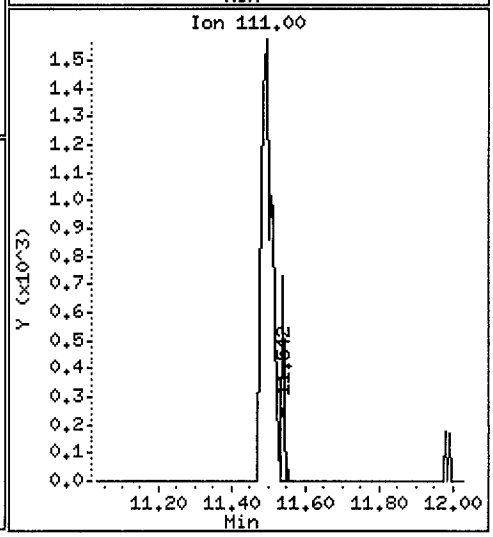












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Report Date: 14-Apr-2006 16:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g9g1aa.d
Lab Smp Id: H2G9G1AA Client Smp ID: G-2915-R1-VOST PAIR
Inj Date : 07-APR-2006 17:08
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9G1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.2**	**1.0**	**ug/L**	**0.10**
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.0**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**6.1**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.14 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.3**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.19 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.57 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	106	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-009 **Work Order #:** H2G9H1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Report Date: 05-Apr-2006 18:53

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Lab Smp Id: H2G9H1AA Client Smp ID: G-2916-R1-VOST COND
Inj Date : 05-APR-2006 18:36
Operator : 063605 Inst ID: mz.i
Smp Info : H2G9H1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

04/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	969304	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	173726	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	214200	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	141916	10.5663	10.566
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	166815	10.7403	10.740
$ 6 Toluene-d8	98	7.455	7.455	(0.834)	795479	10.4212	10.421
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	205396	9.50812	9.5081
22 Acetone	43	2.120	2.126	(0.374)	8673	4.83395	4.8339
23 *Iodomethane	142	2.180	2.181	(0.385)	159	~~0.52849~~	~~0.52849~~
27 Methylene Chloride	84	2.509	2.503	(0.443)	37604	2.31970	2.3197
39 *THF	42	4.632	4.529	(0.817)	1275	~~0.55452~~	~~0.55452~~
40 Chloroform (ccc)	83	4.614	4.608	(0.814)	214262	6.11785	6.1178
42 Carbon Tetrachloride	117	4.614	5.028	(0.814)	2521	0~~.43690~~	~~0.43690~~
45 1,2-Dichloroethane	62	5.325	5.326	(0.940)	2845	0.14060	0.14060

WT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Report Date: 05-Apr-2006 18:53

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
46 Trichloroethene	130	6.110	6.105	(1.078)	15329	0.57010	0.57010
50 Bromodichloromethane	83	6.682	6.683	(1.179)	27000	2.22299	2.2230
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	6496	~~0.76746~~	~~0.76746~~
54 Toluene (ccc)	91	7.528	7.522	(0.843)	18314	0.18524	0.18524
55 trans-1,3-Dichloropropene	75	7.467	7.784	(0.836)	135	~~0.63388~~	~~0.63388~~
61 Chlorodibromomethane	129	8.343	8.349	(0.934)	2244	1.01648	1.0165
69 Bromoform (spcc)	173	10.131	9.779	(1.134)	577	1.00931	1.0093

MT
4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Report Date: 05-Apr-2006 18:53

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g9h1aa.d
Lab Smp Id: H2G9H1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-2916-R1-VOST COND
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	969304	-10.14
2 Chlorobenzene-d5	188899	94450	377798	173726	-8.03
3 1,4 Dichlorobenze	220143	110072	440286	214200	-2.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	-0.01
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Report Date: 05-Apr-2006 18:53

STL Knoxville

RECOVERY REPORT

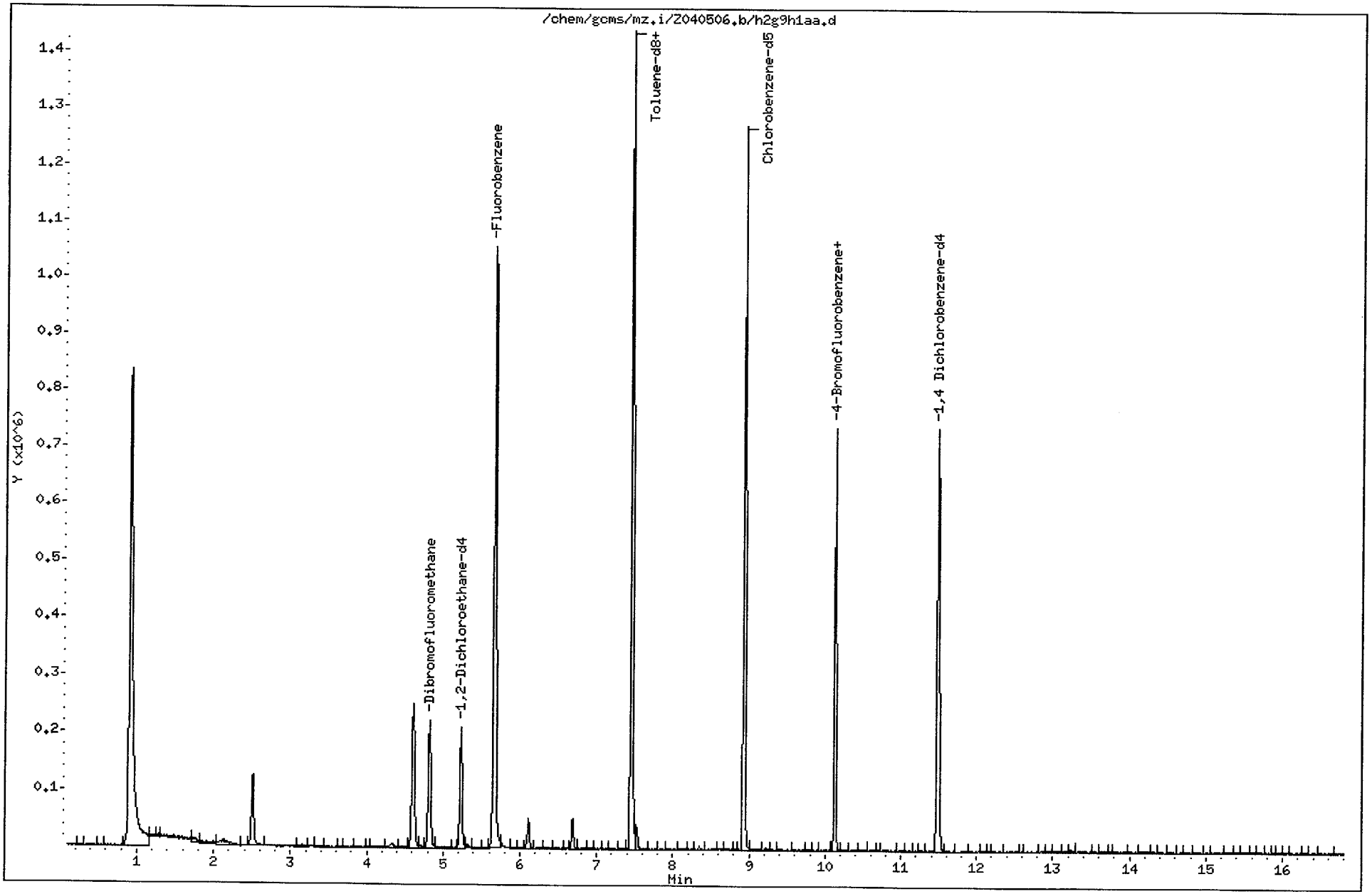
Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2G9H1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2916-R1-VOST COND
Operator: 063605
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.566	105.66	71-127
$ 4 Dibromofluorometha	10.000	10.740	107.40	79-120
$ 6 Toluene-d8	10.000	10.421	104.21	80-120
$ 7 4-Bromofluorobenze	10.000	9.5081	95.08	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Date : 05-APR-2006 18:36
Client ID: G-2916-R1-VOST COND
Sample Info: H2G9H1AA,1,0,,
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



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Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

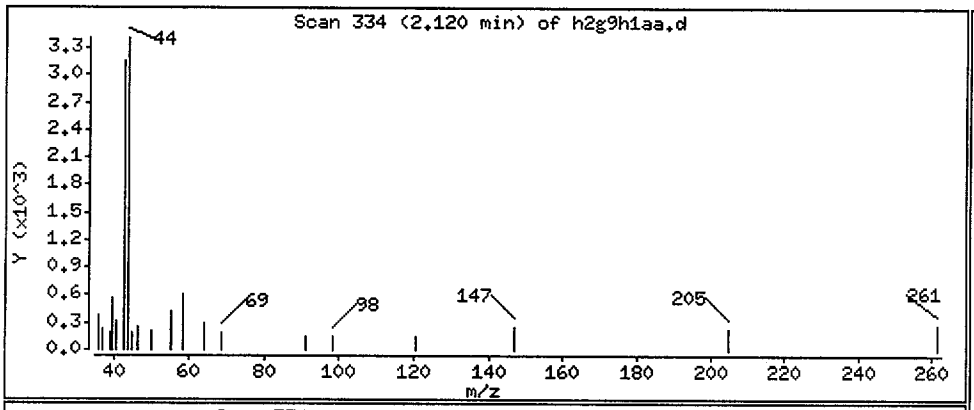
Operator: 063605

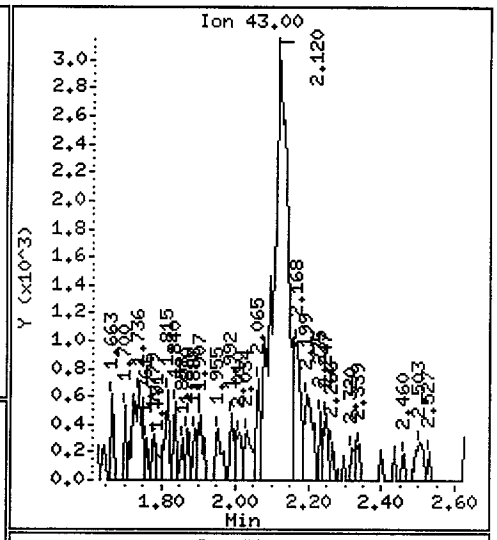
Column phase: J+W 624

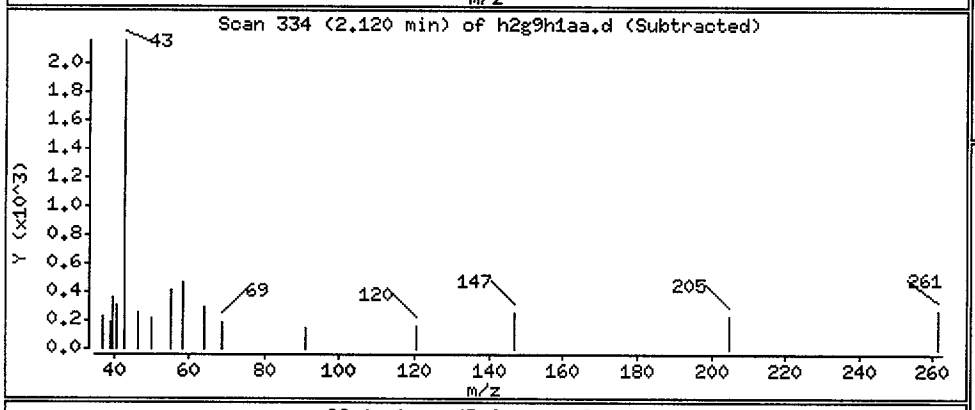
Column diameter: 0.18

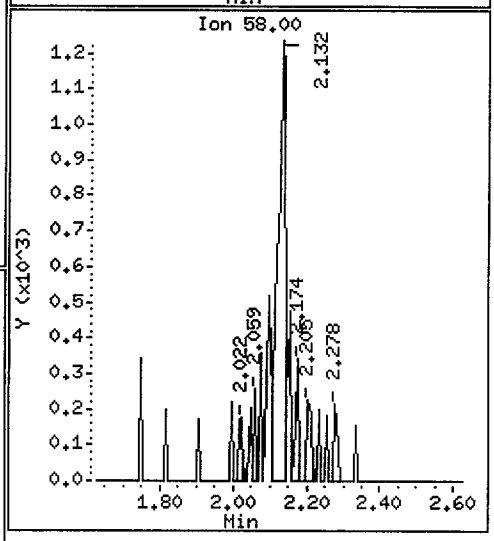
22 Acetone

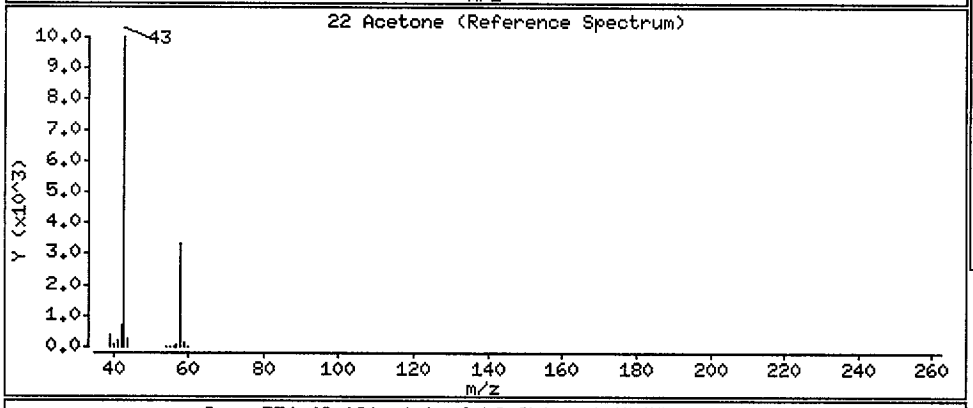
Concentration: 4.8339 ug/L

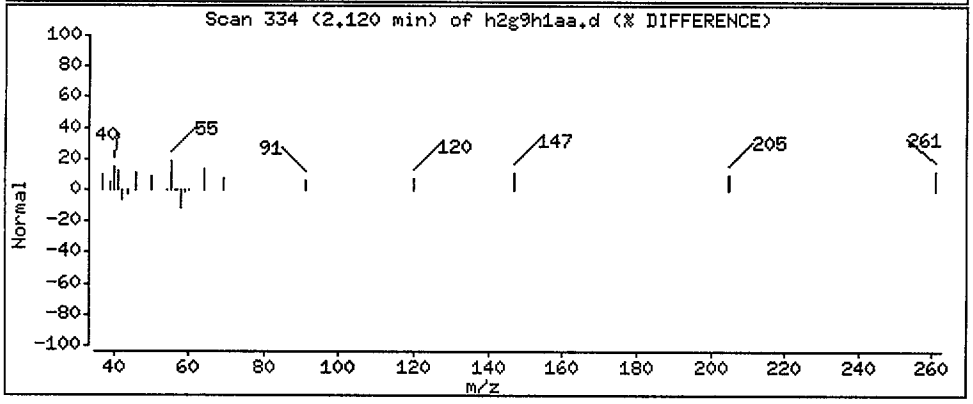












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

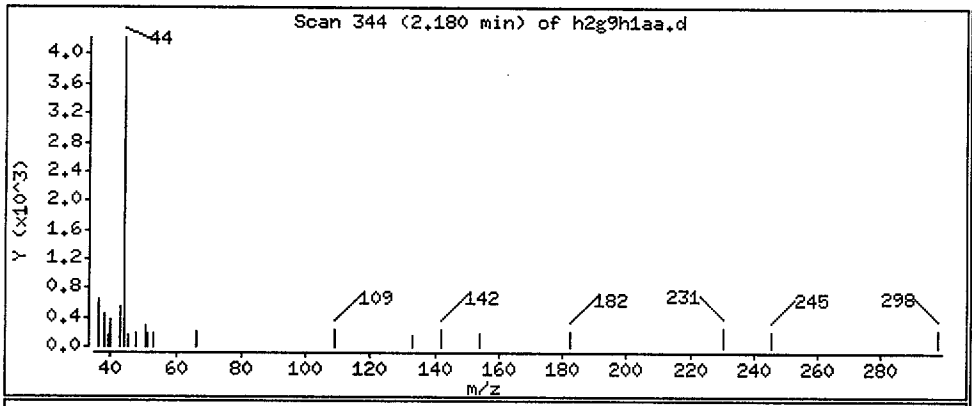
Operator: 063605

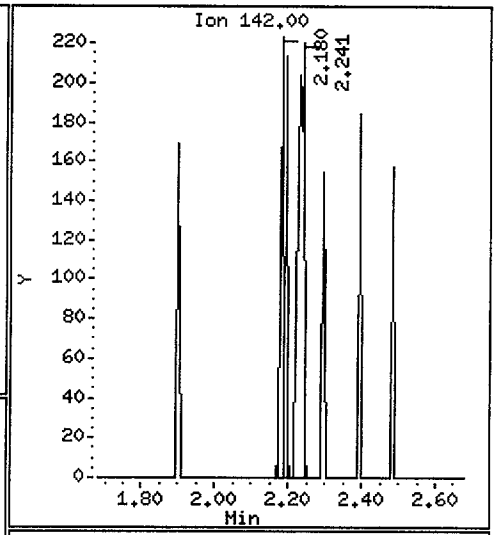
Column phase: J+W 624

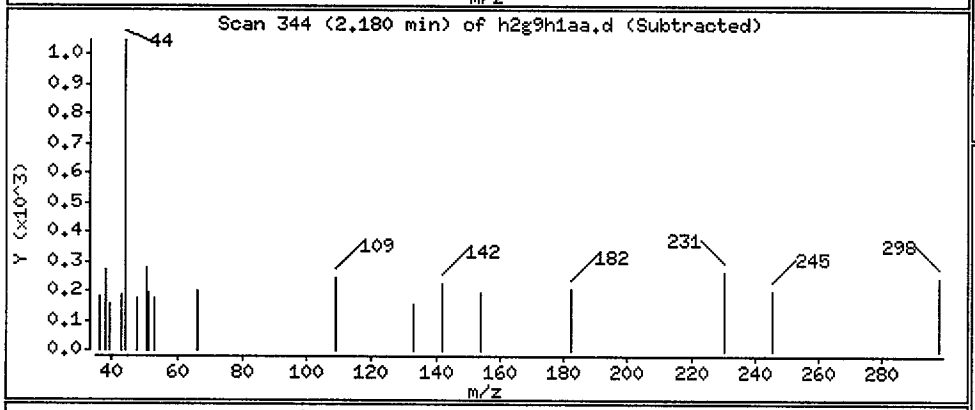
Column diameter: 0.18

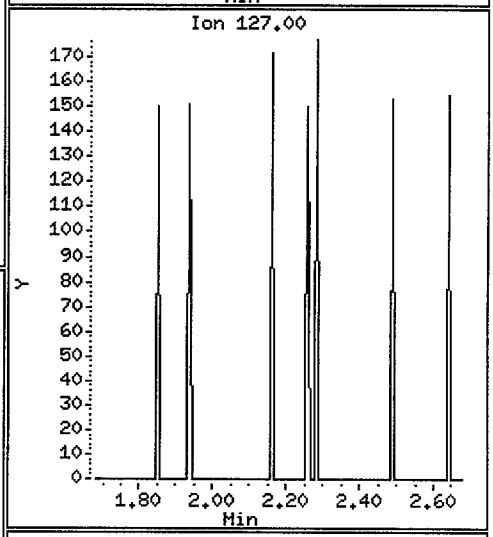
23 *Iodomethane

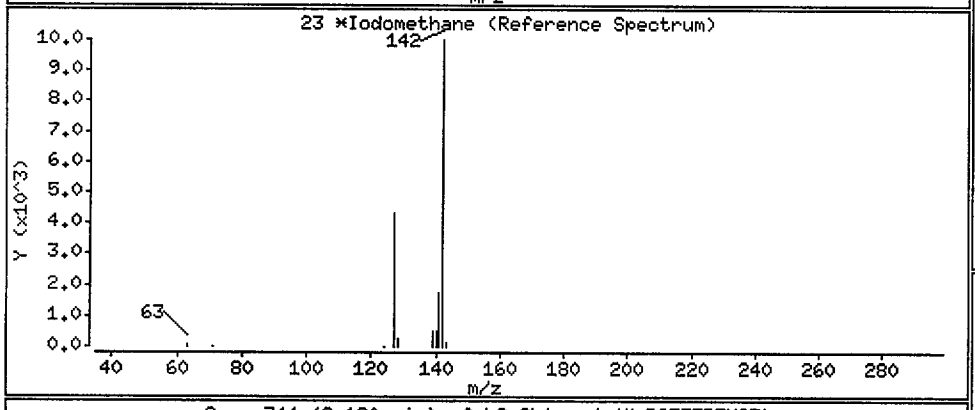
Concentration: 0.52849 ug/L

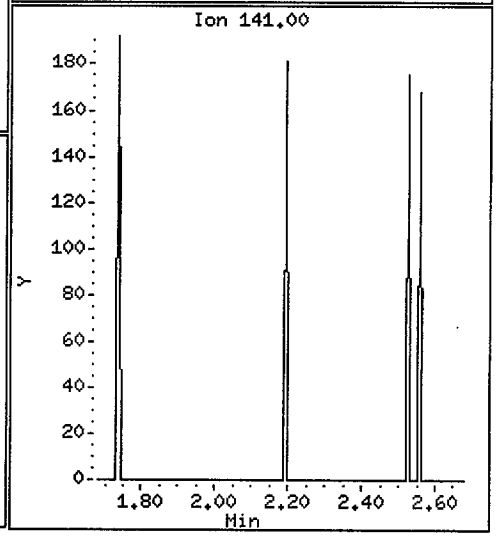


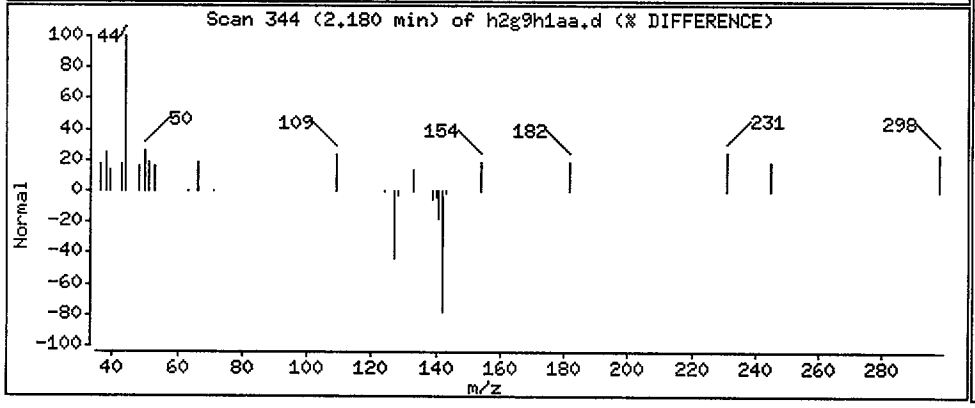












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

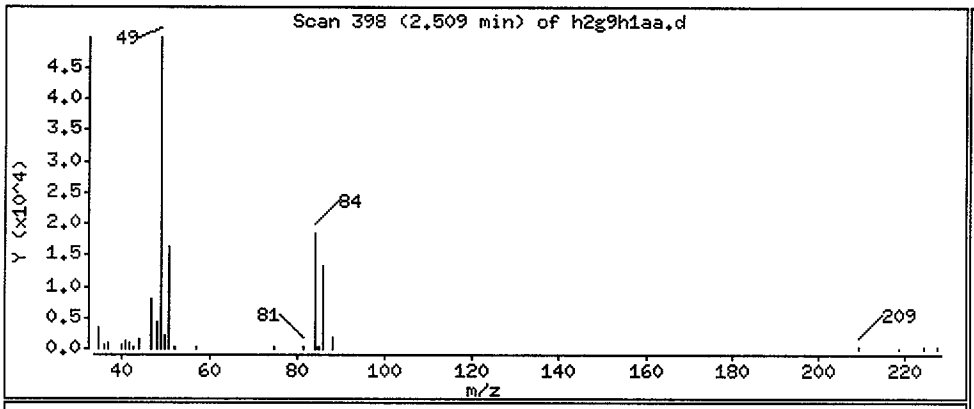
Operator: 063605

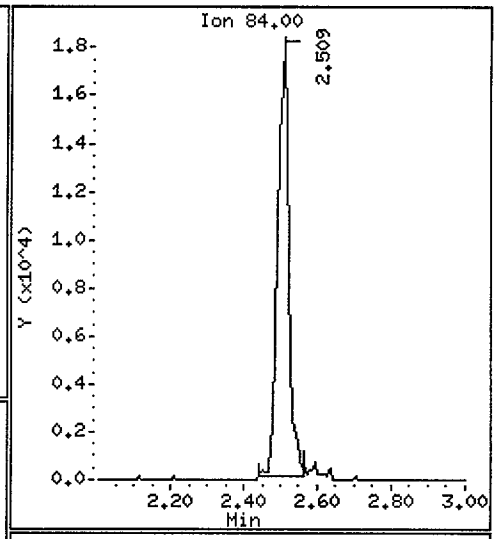
Column phase: J+W 624

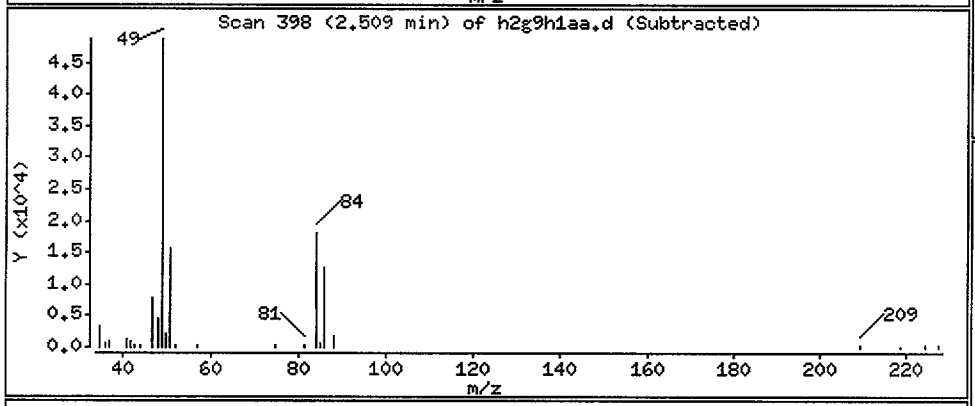
Column diameter: 0.18

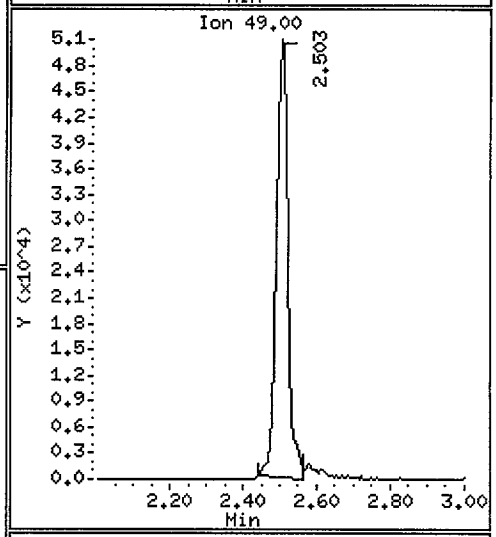
27 Methylene Chloride

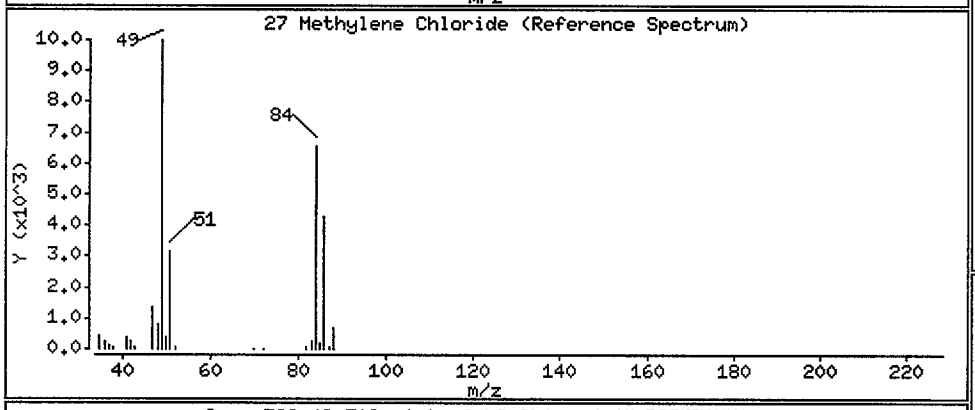
Concentration: 2.3197 ug/L

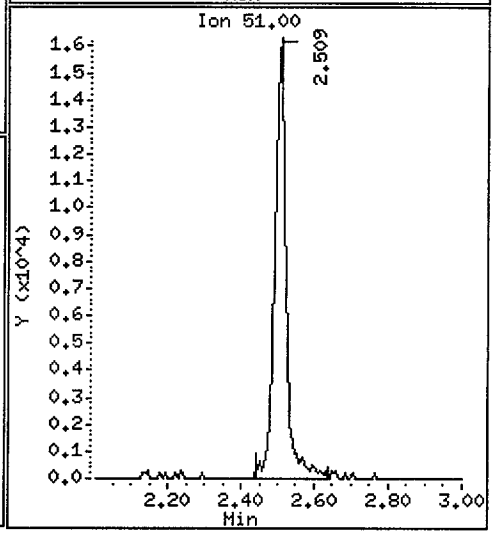


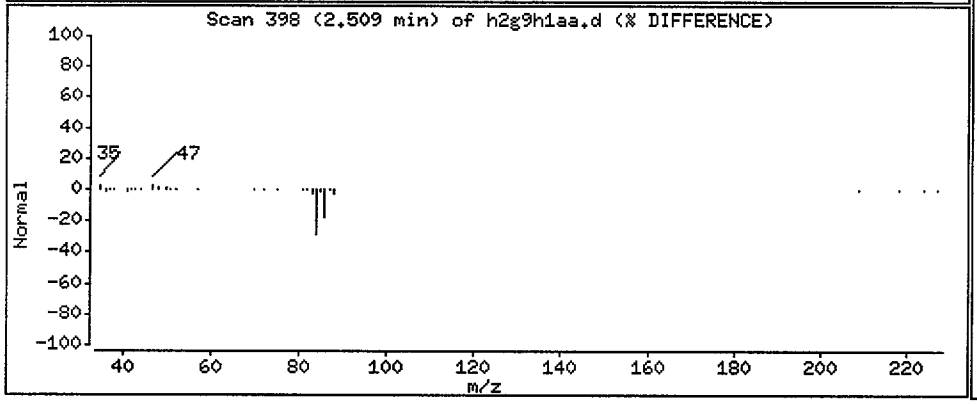












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

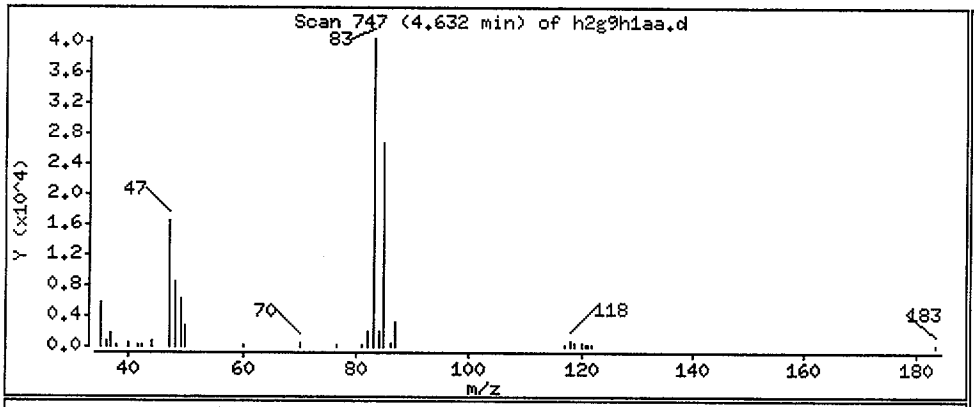
Operator: 063605

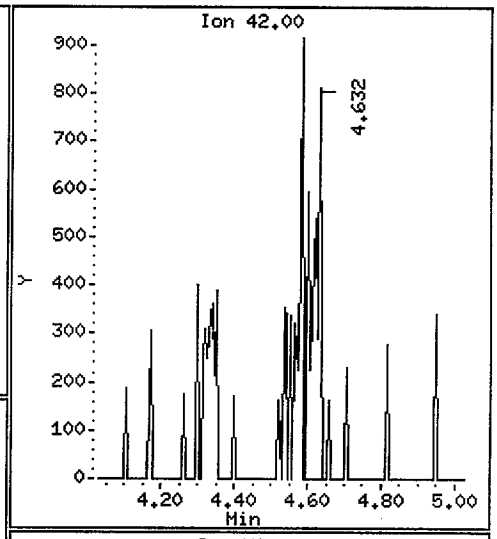
Column phase: J+W 624

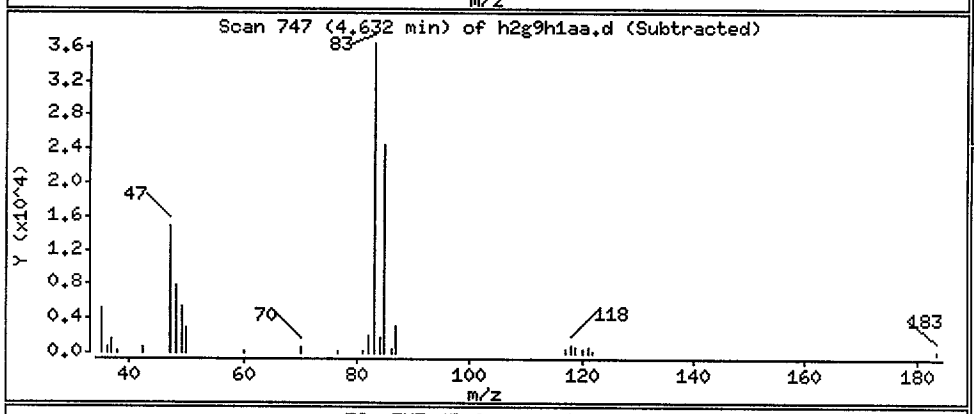
Column diameter: 0.18

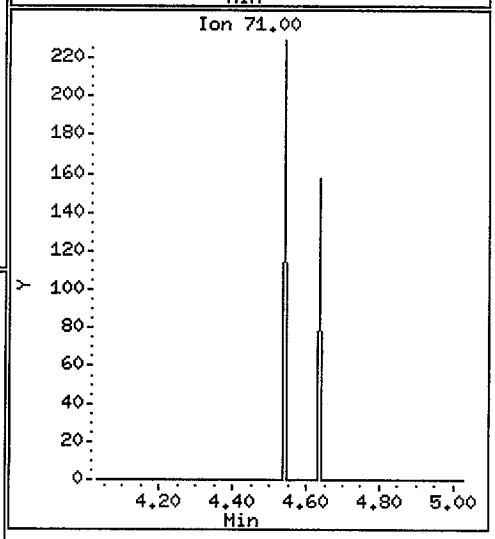
39 *THF

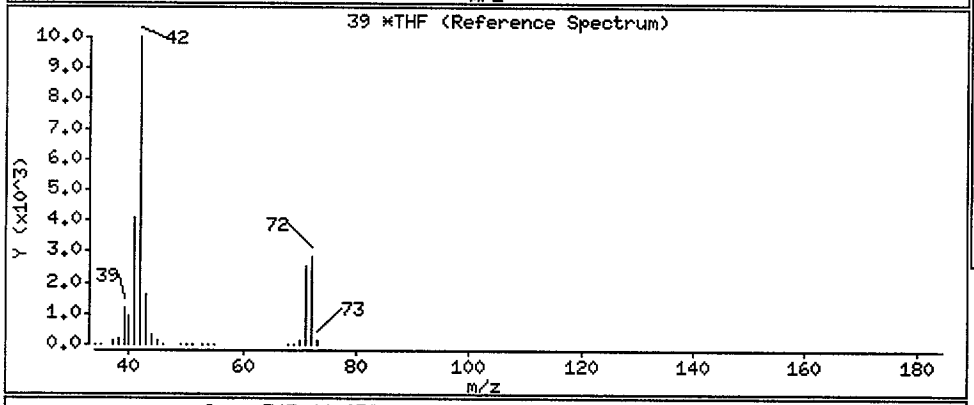
Concentration: 0.55452 ug/L

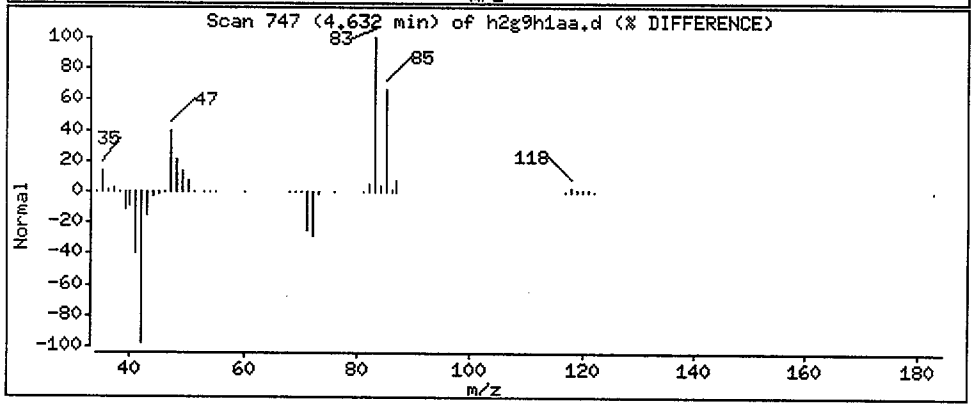












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

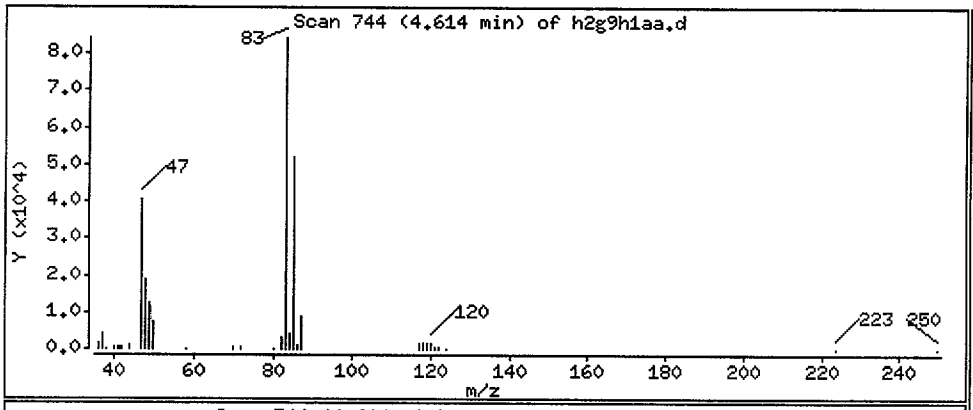
Operator: 063605

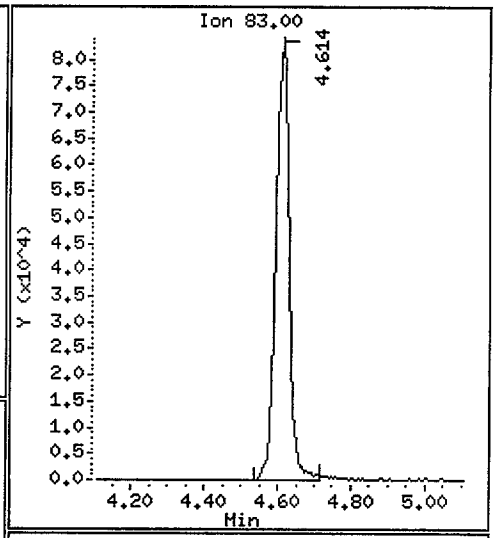
Column phase: J+W 624

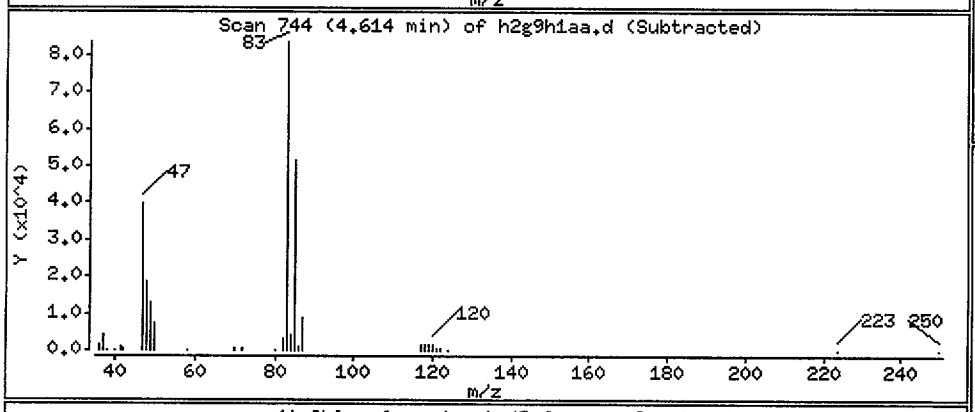
Column diameter: 0.18

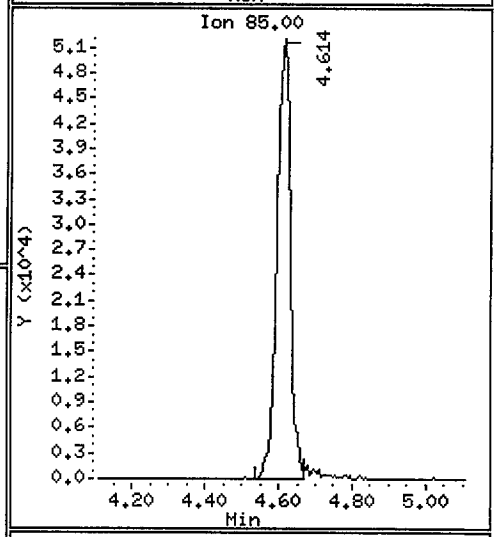
40 Chloroform (ccc)

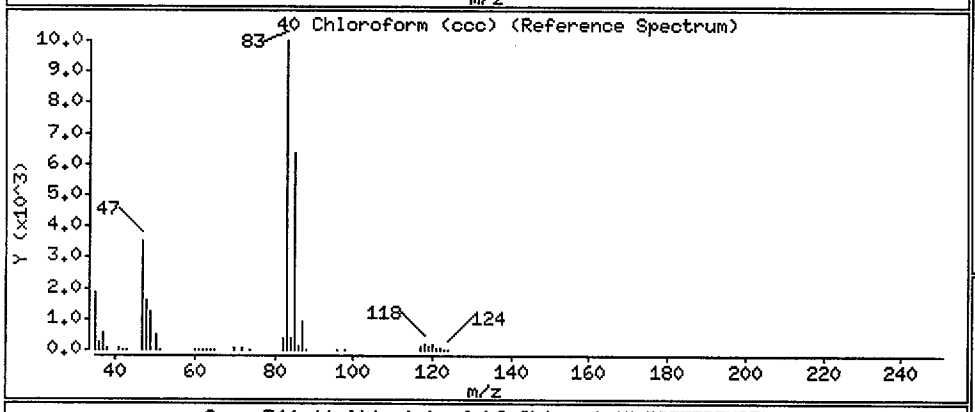
Concentration: 6.1178 ug/L

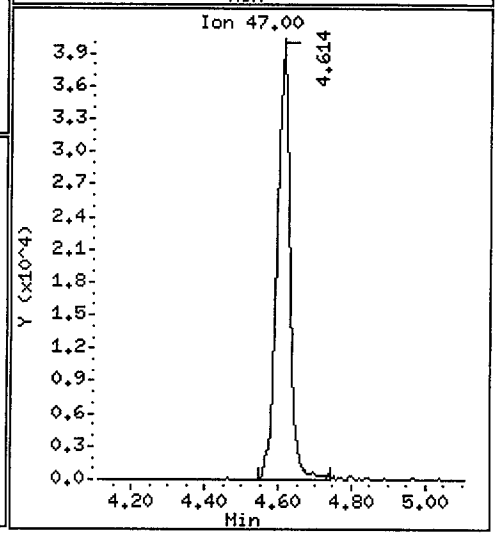


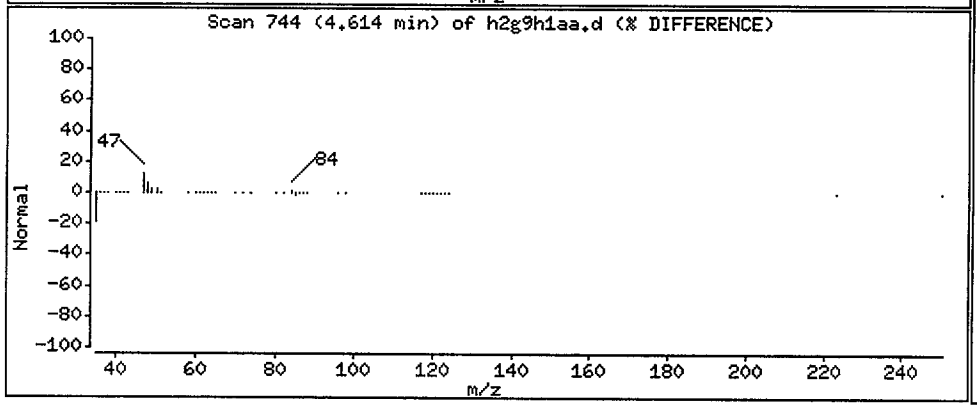












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

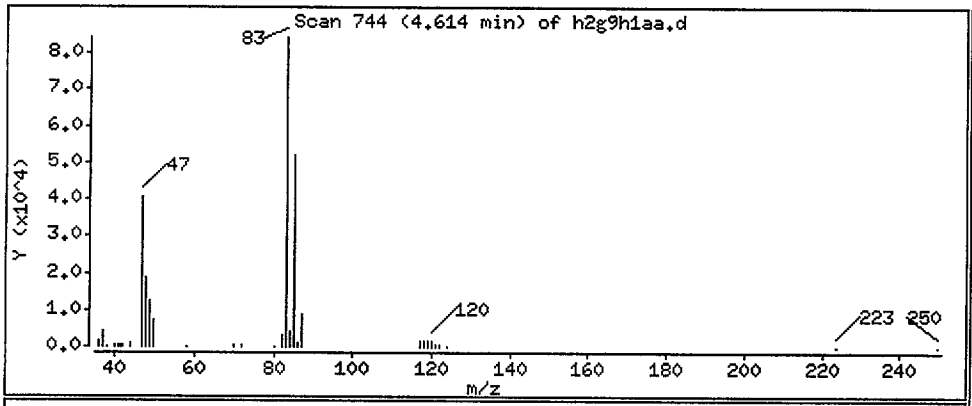
Operator: 063605

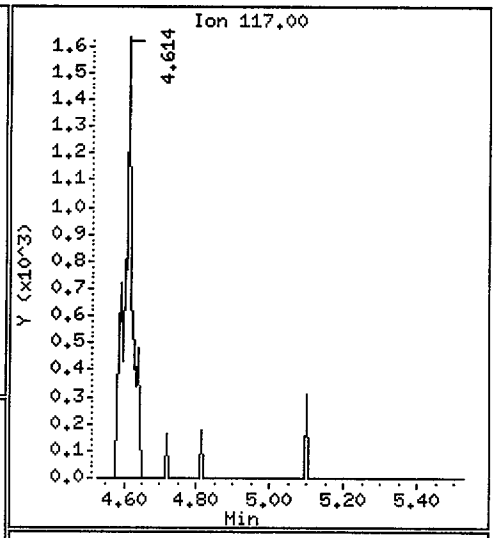
Column phase: J+W 624

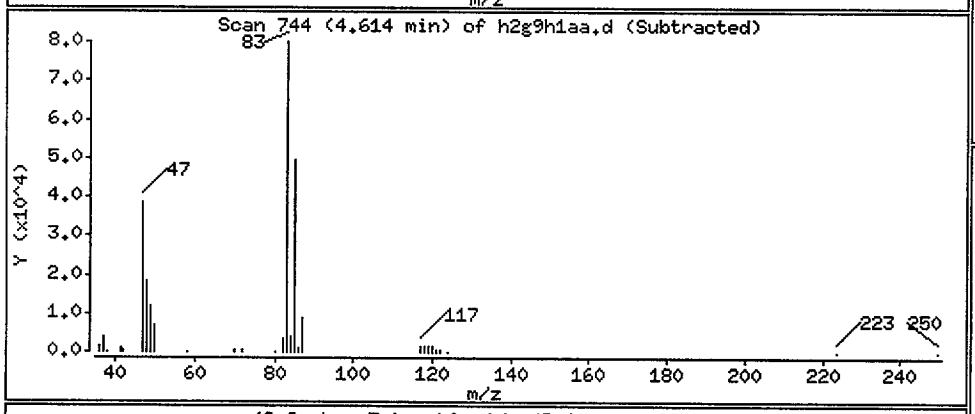
Column diameter: 0.18

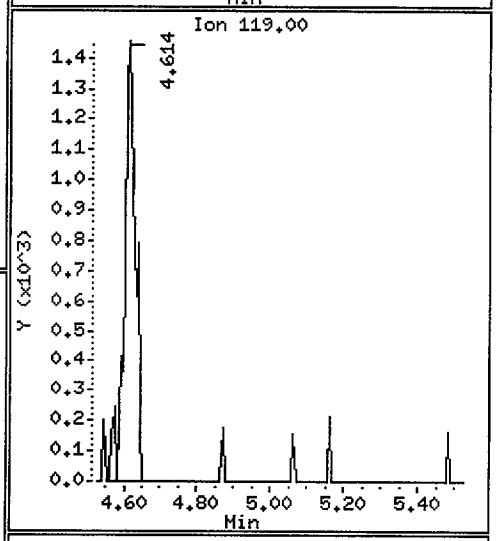
42 Carbon Tetrachloride

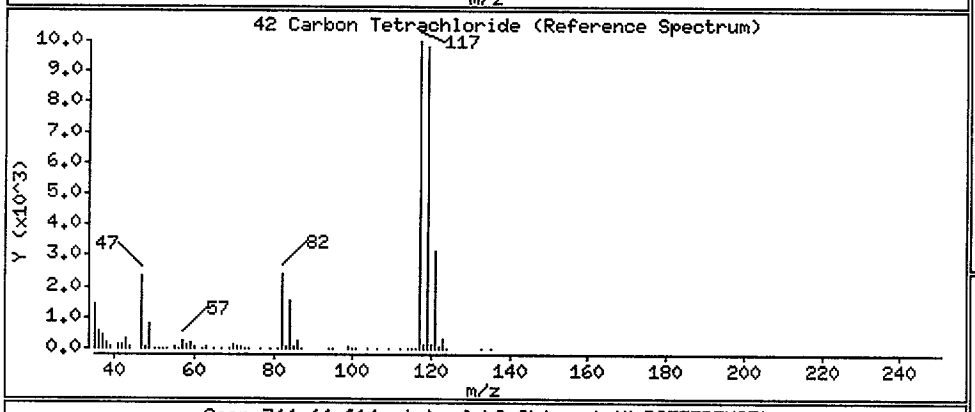
Concentration: 0.43690 ug/L

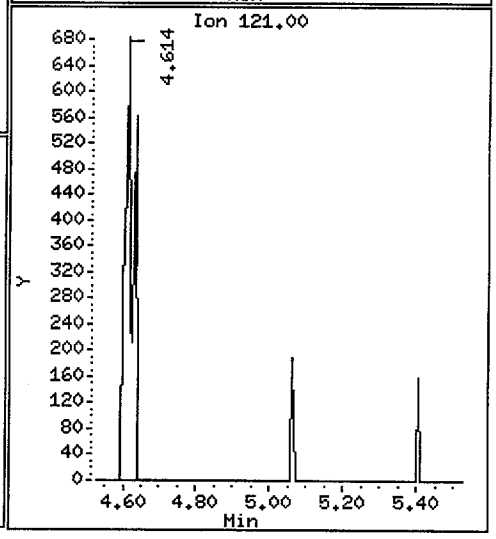


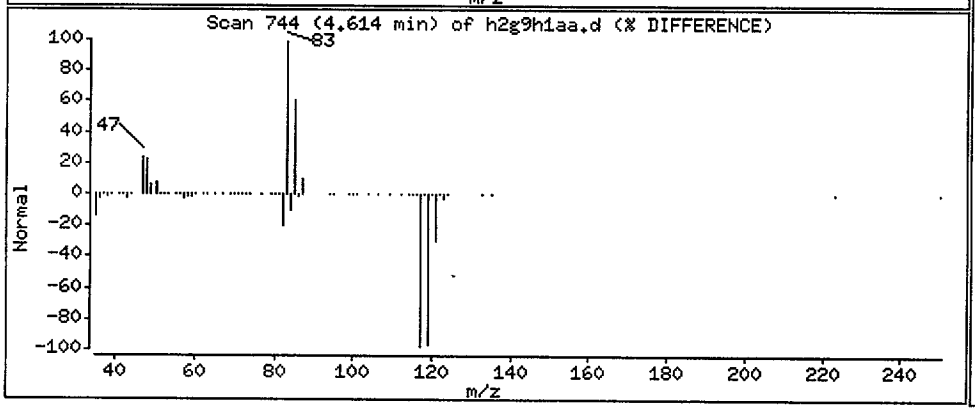












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

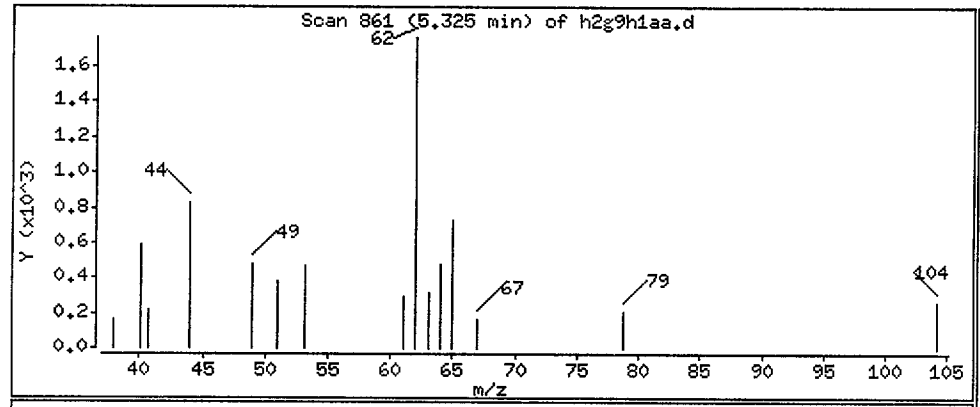
Operator: 063605

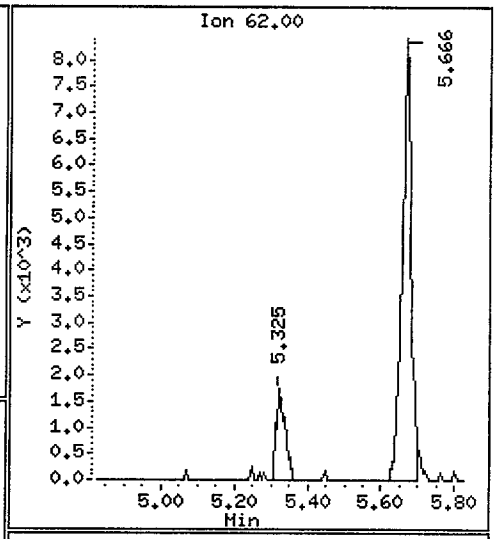
Column phase: J+W 624

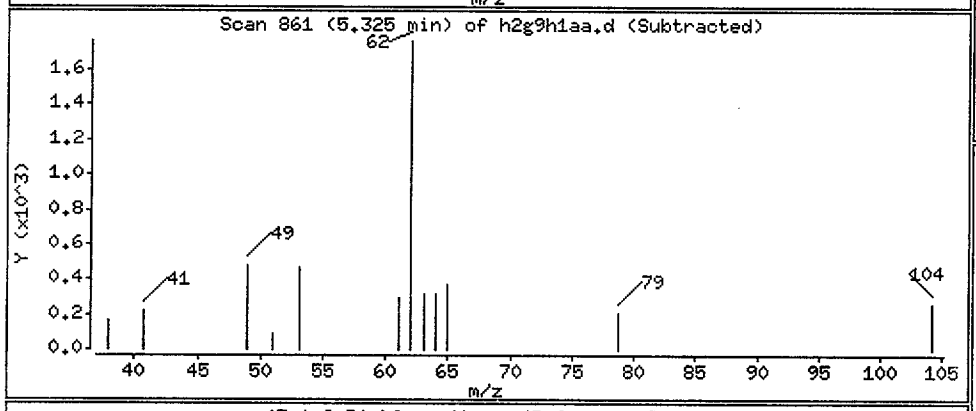
Column diameter: 0.18

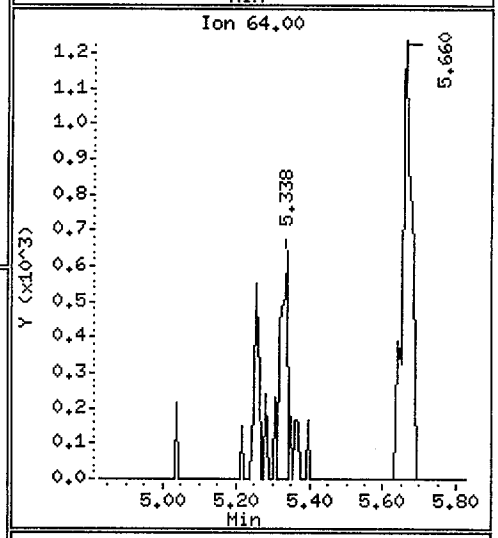
45 1,2-Dichloroethane

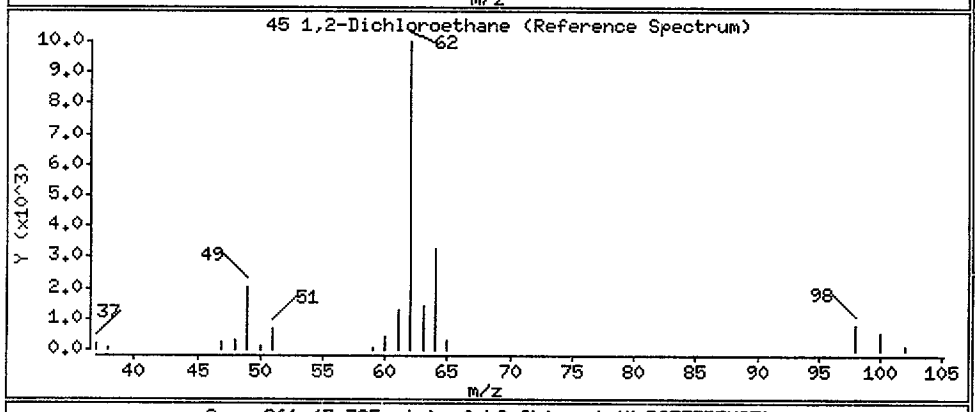
Concentration: 0.14060 ug/L

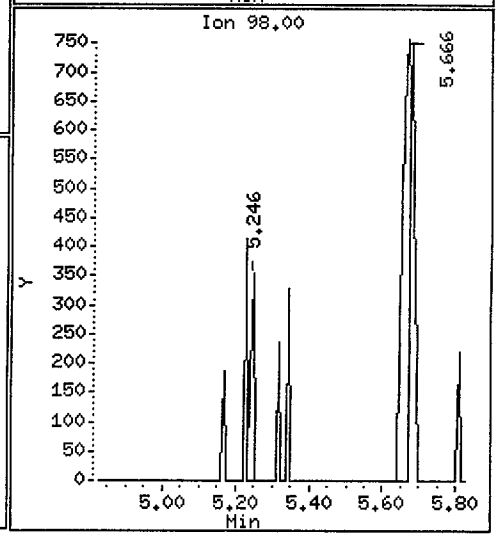


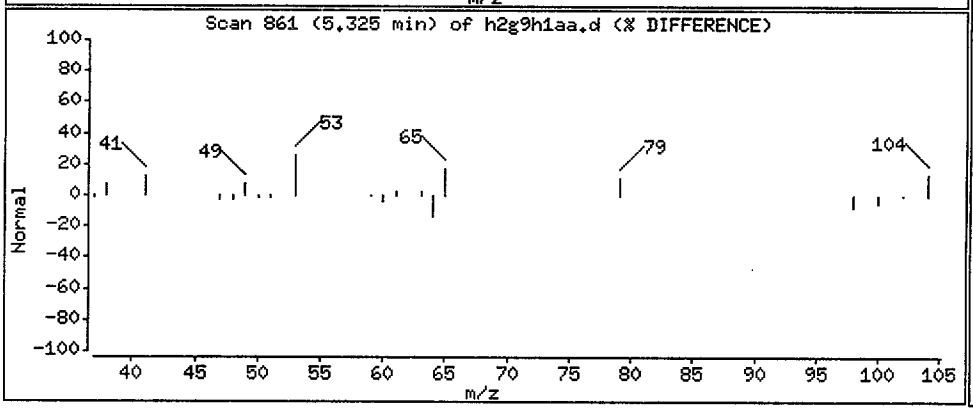












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

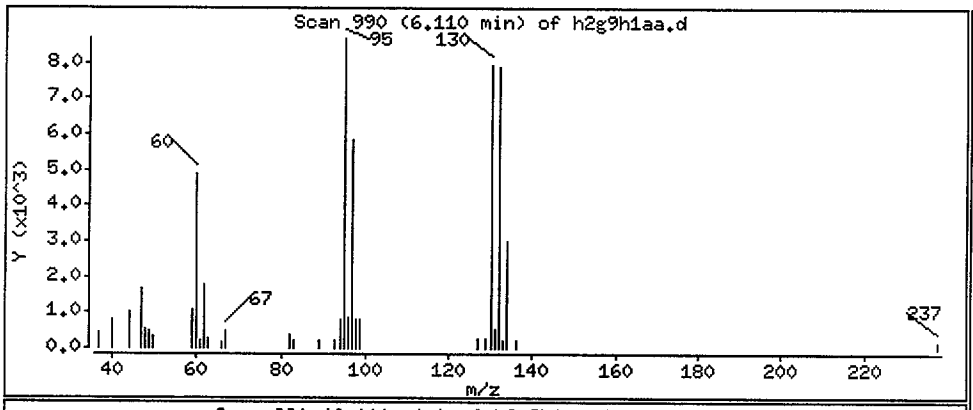
Operator: 063605

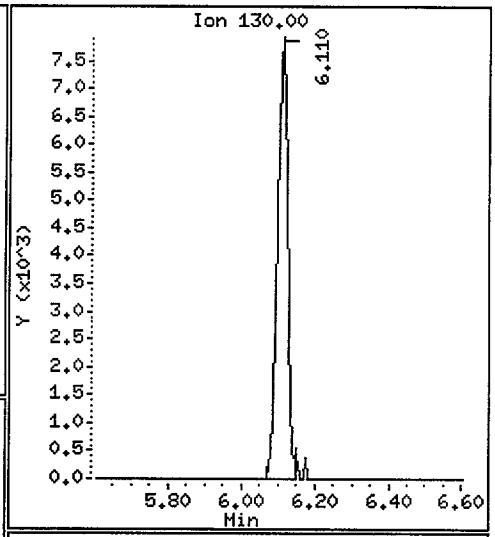
Column phase: J+W 624

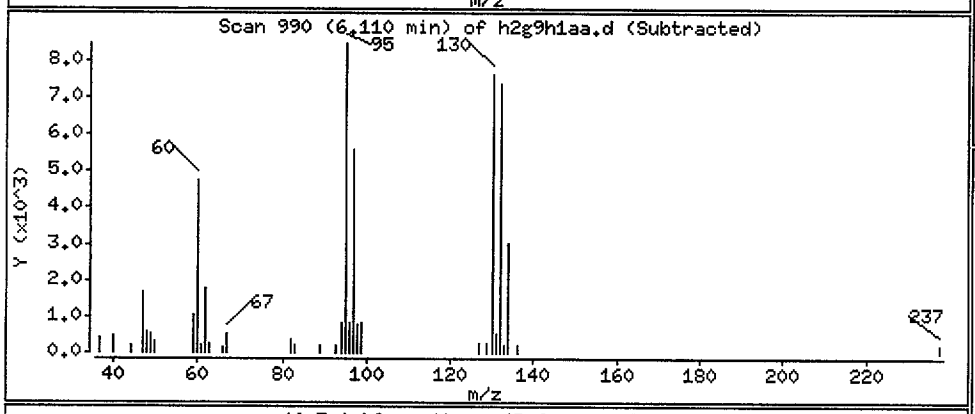
Column diameter: 0.18

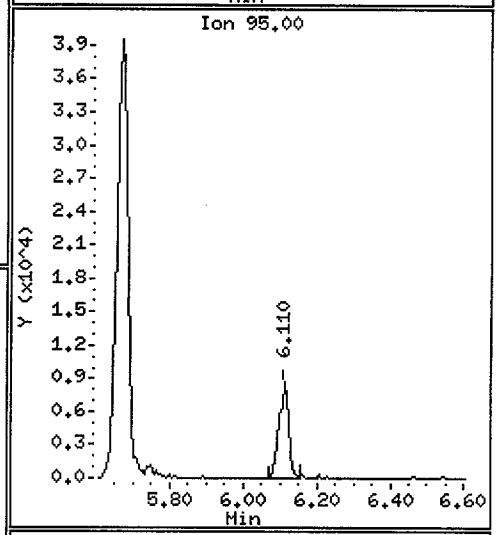
46 Trichloroethene

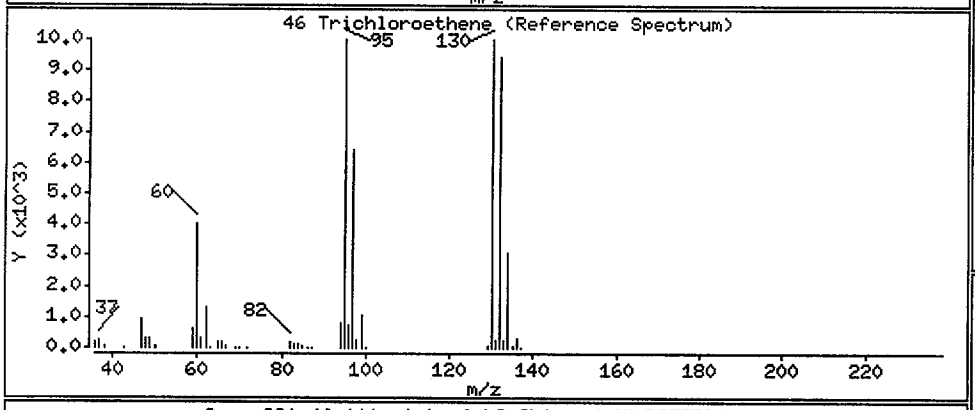
Concentration: 0.57010 ug/L

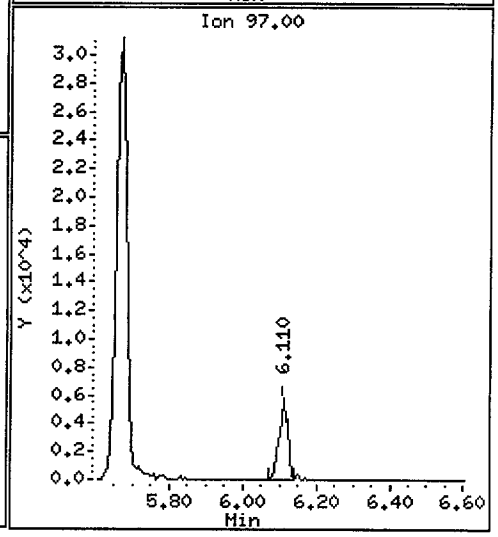


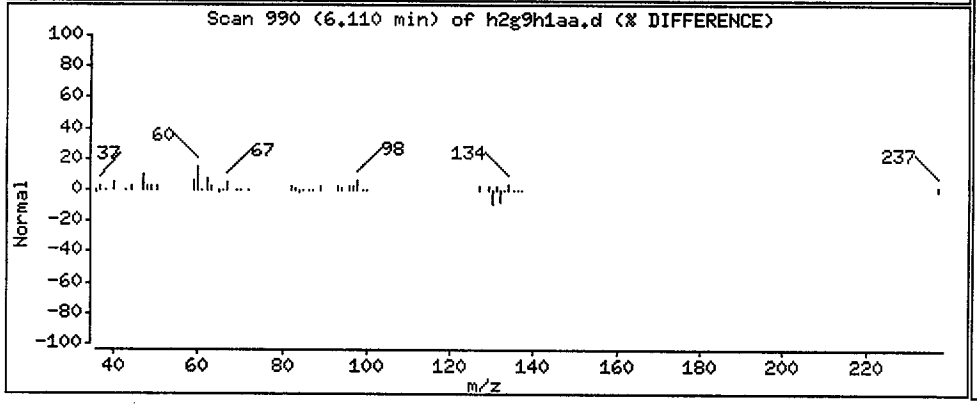












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

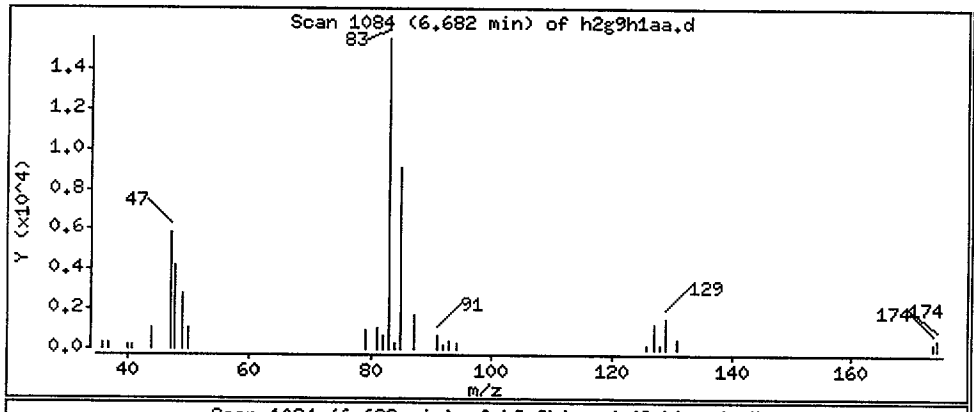
Operator: 063605

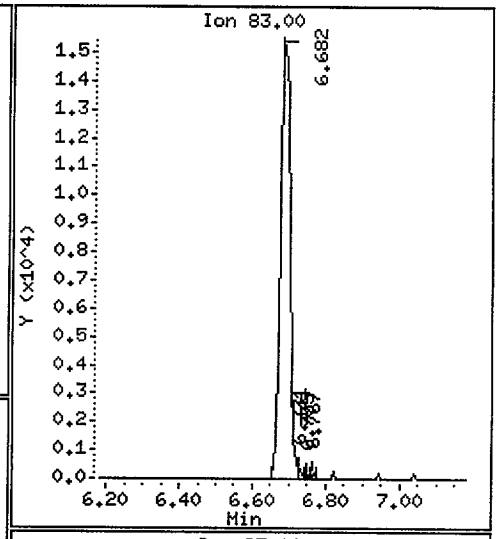
Column phase: J+W 624

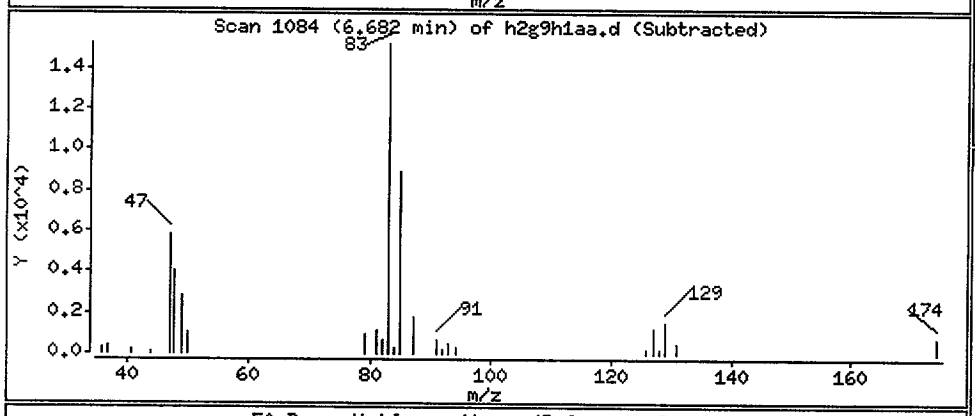
Column diameter: 0.18

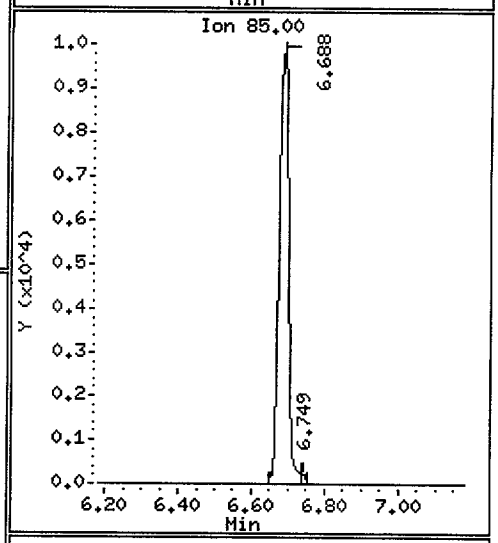
50 Bromodichloromethane

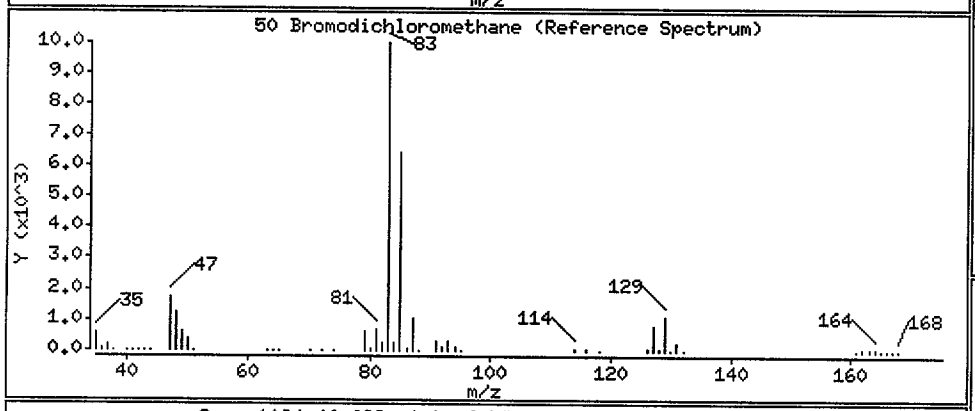
Concentration: 2.2230 ug/L

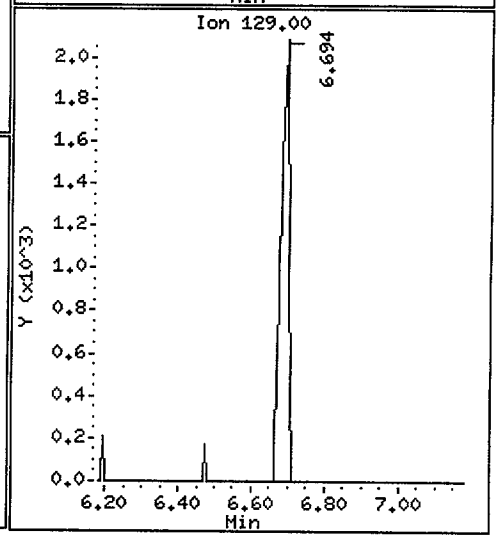


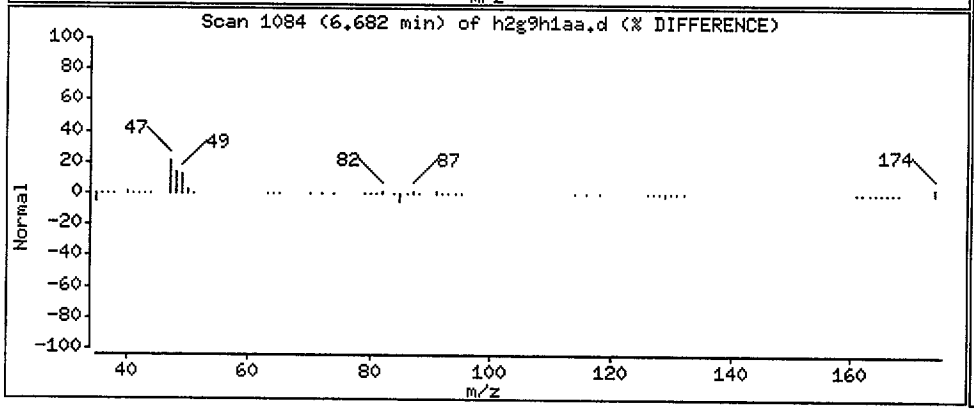












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

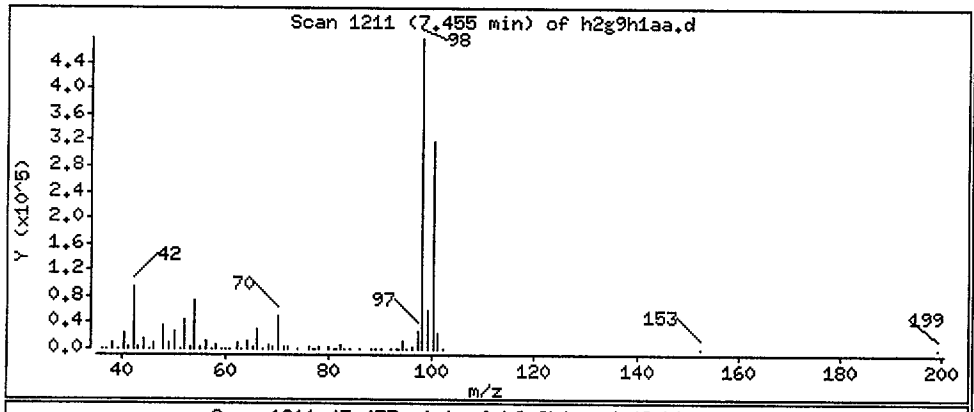
Operator: 063605

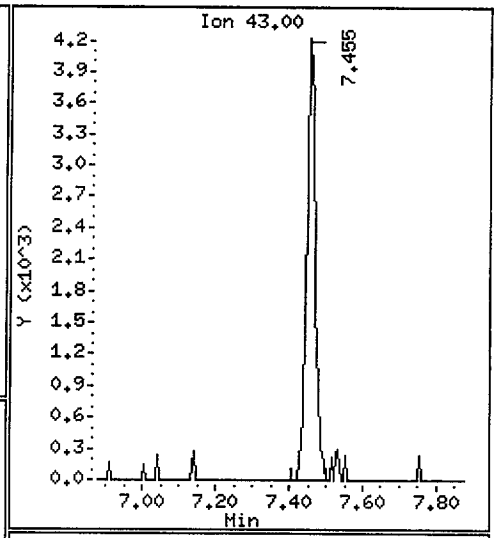
Column phase: J+W 624

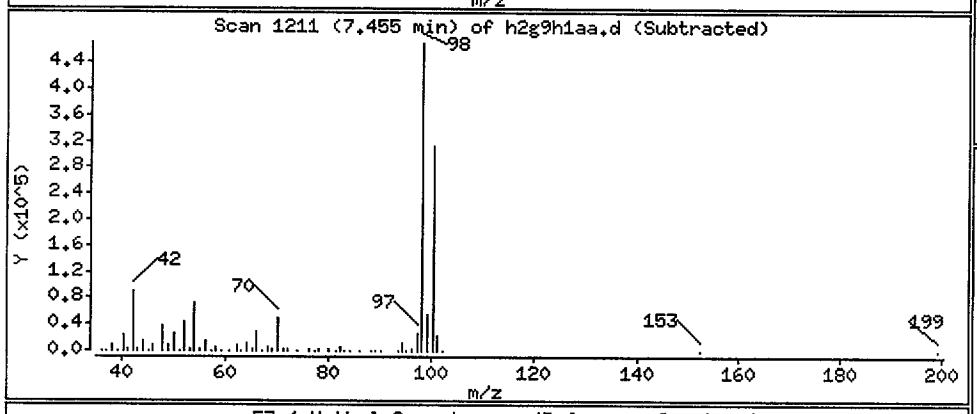
Column diameter: 0.18

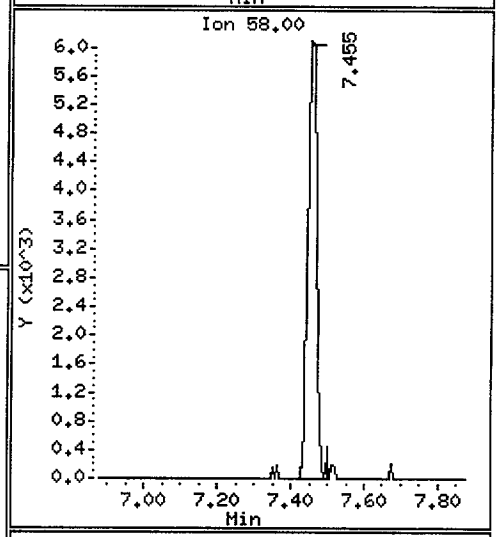
53 4-Methyl-2-pentanone

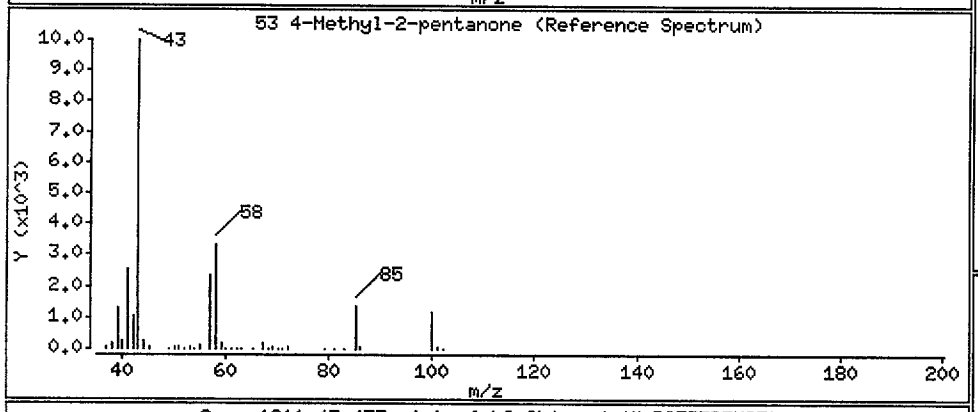
Concentration: 0.76746 ug/L

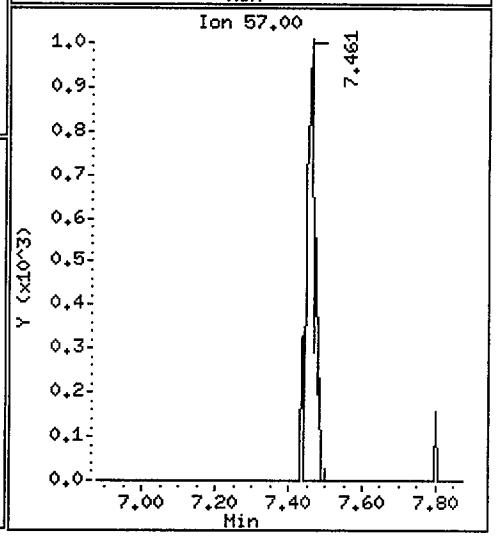


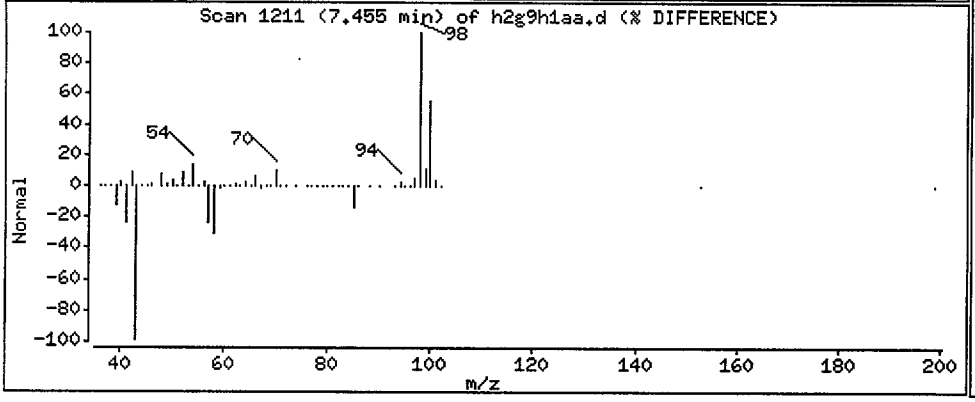












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

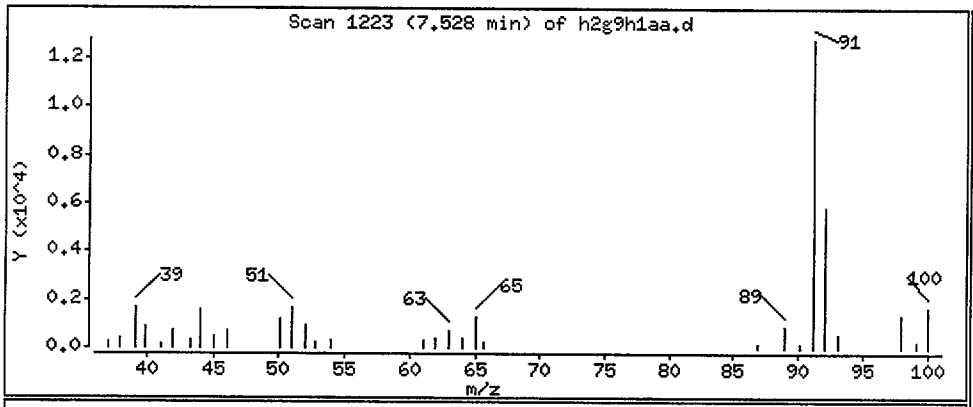
Operator: 063605

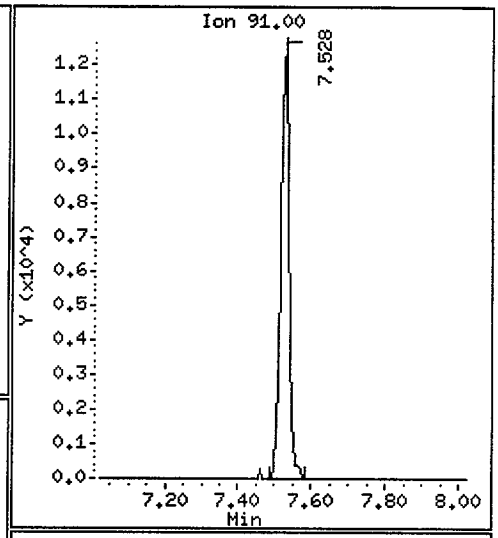
Column phase: J+W 624

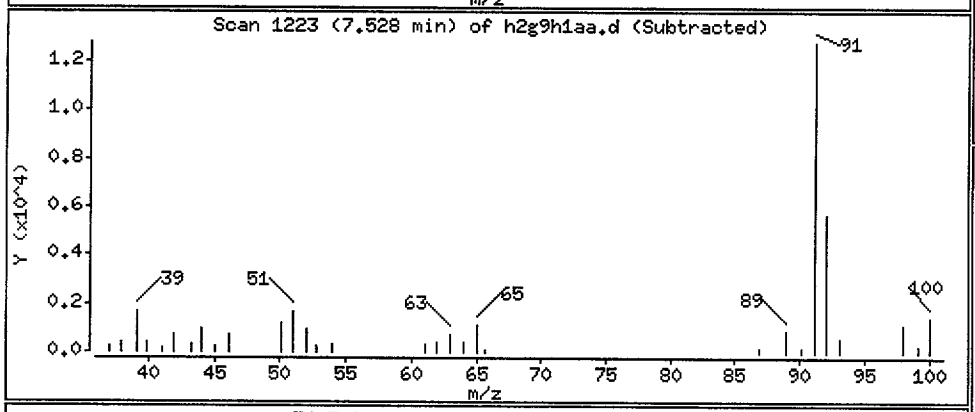
Column diameter: 0.18

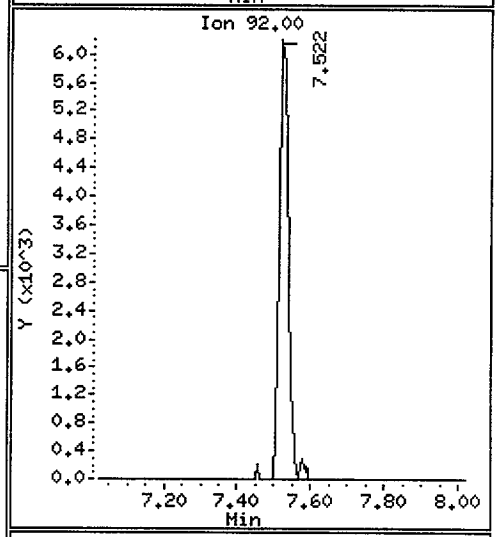
54 Toluene (ccc)

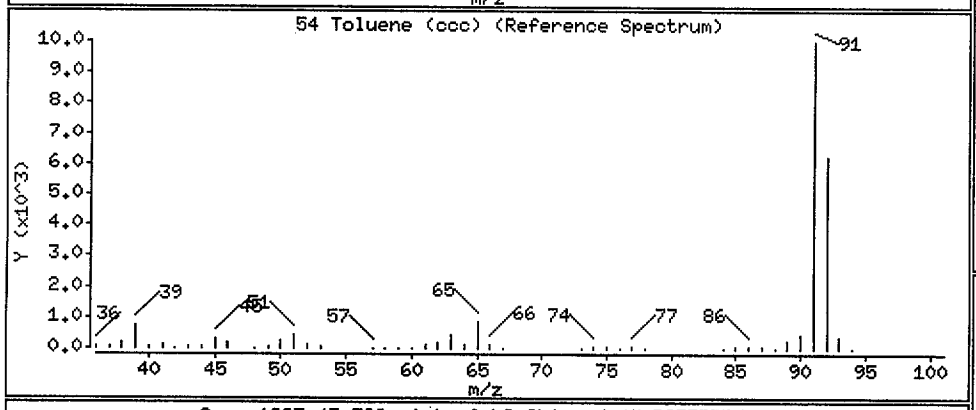
Concentration: 0.18524 ug/L

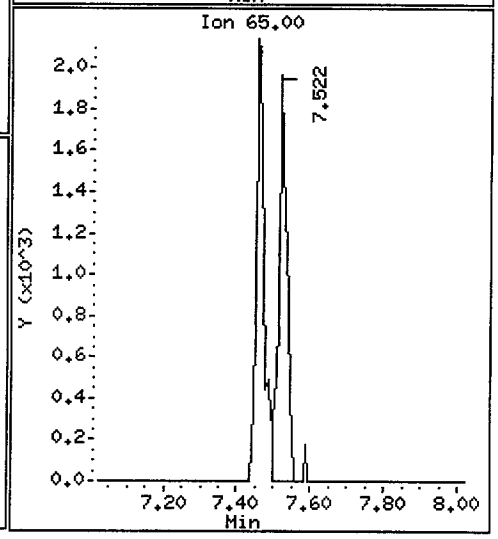


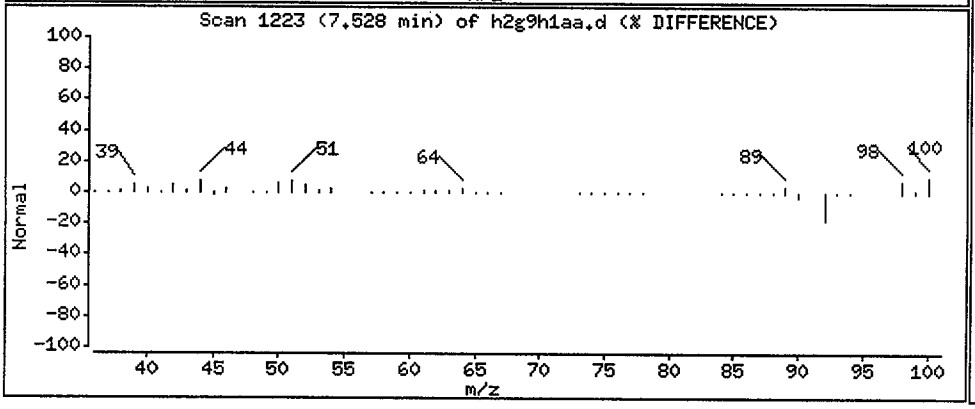












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

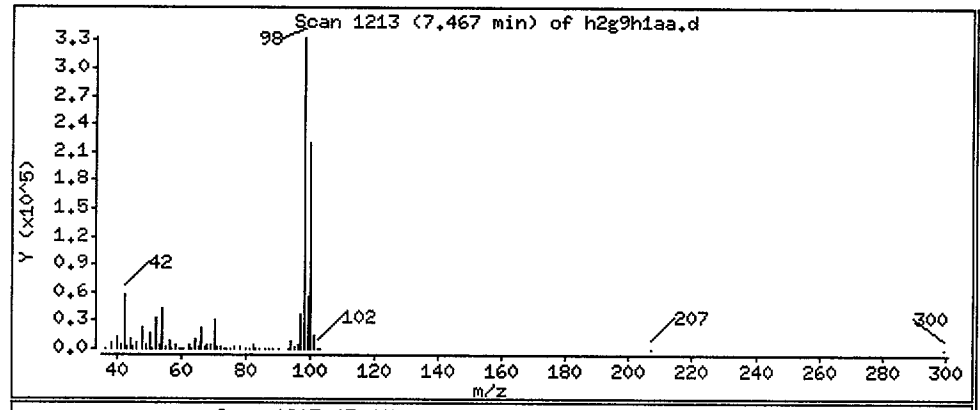
Operator: 063605

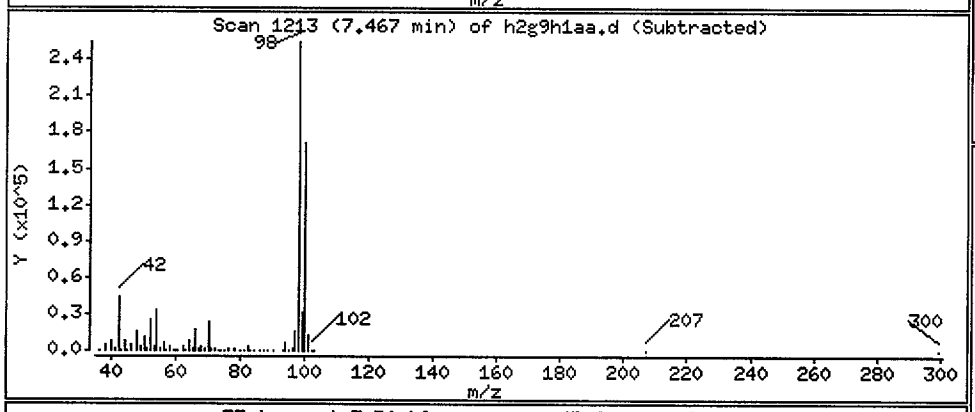
Column phase: J+W 624

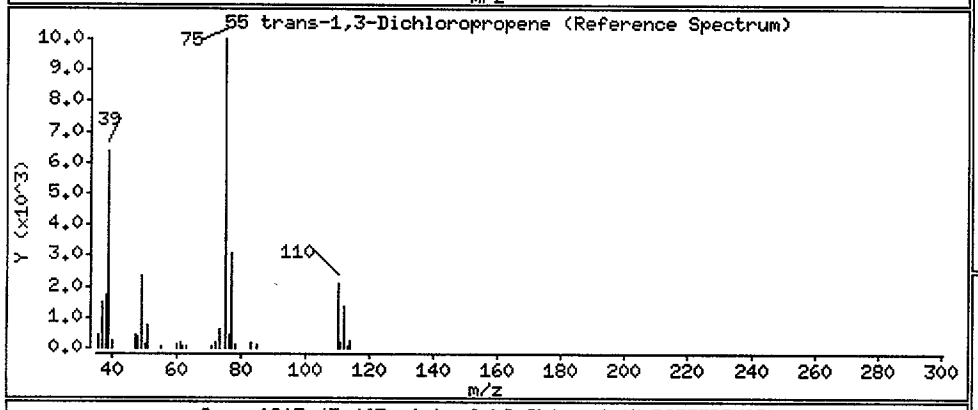
Column diameter: 0.18

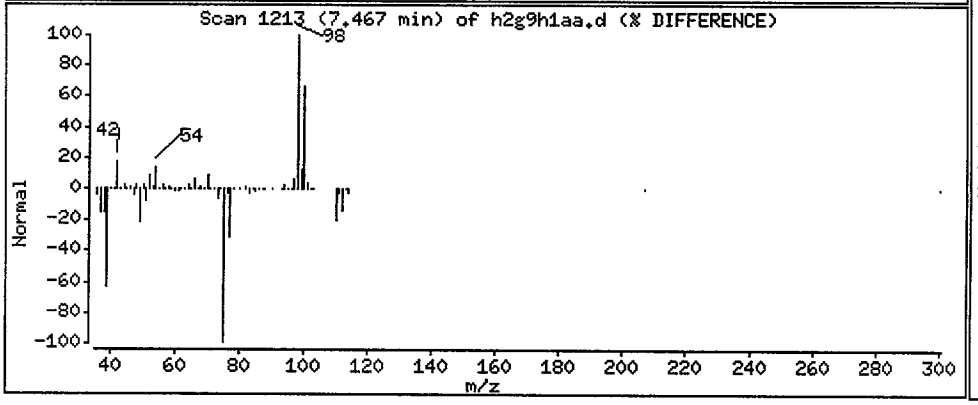
55 trans-1,3-Dichloropropene

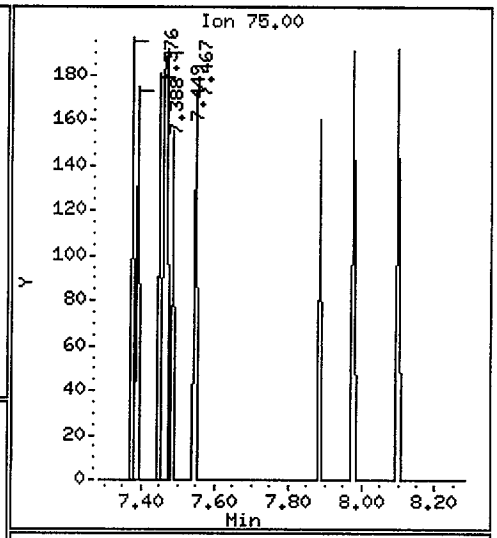
Concentration: 0.63388 ug/L

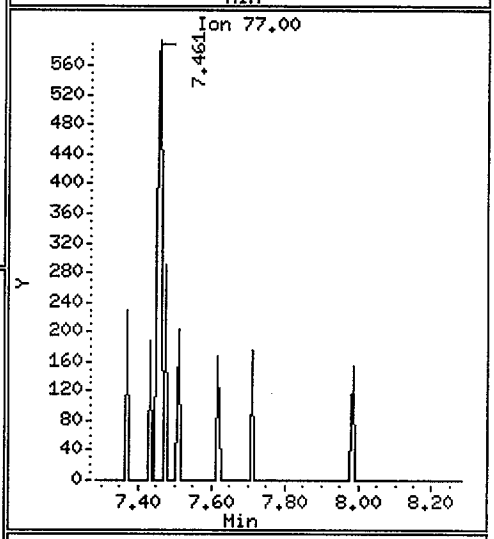


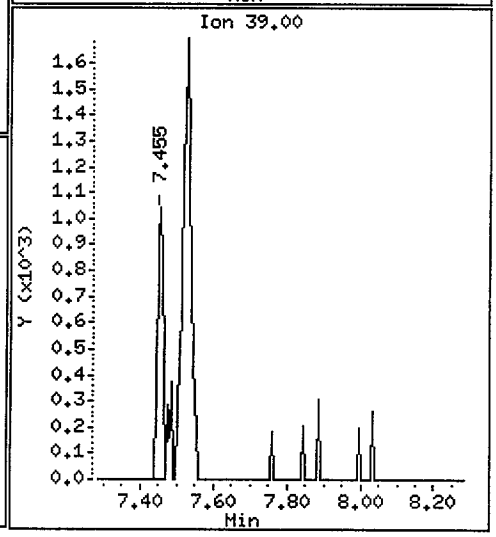












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1.0,,

Purge Volume: 25.0

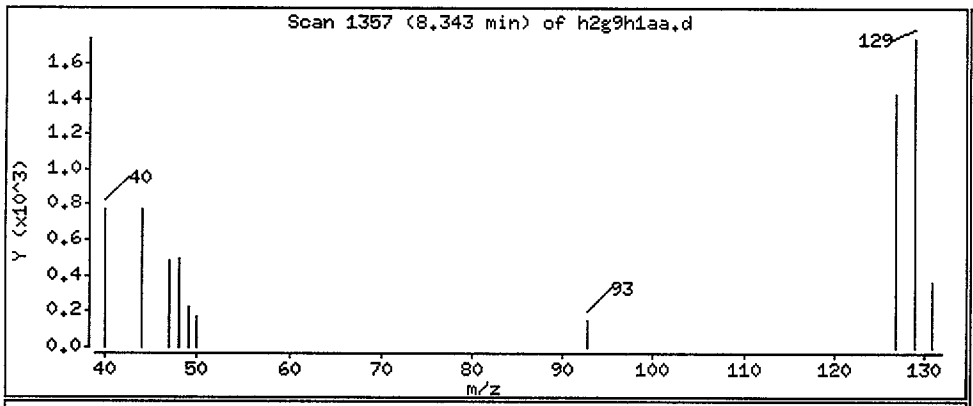
Operator: 063605

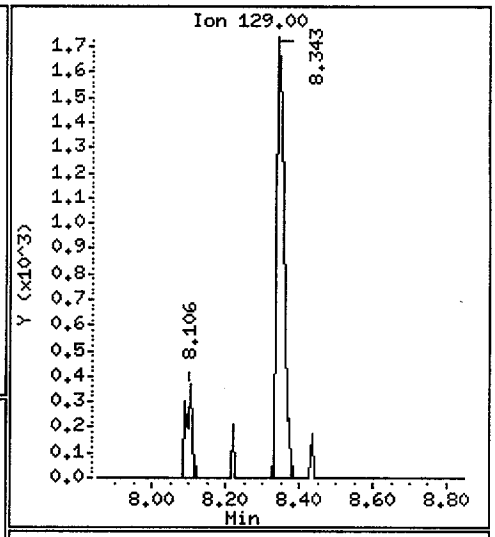
Column phase: J+W 624

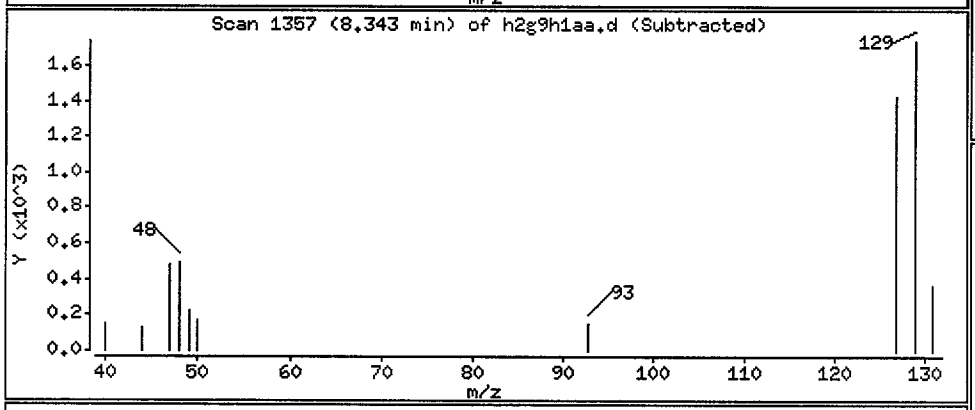
Column diameter: 0.18

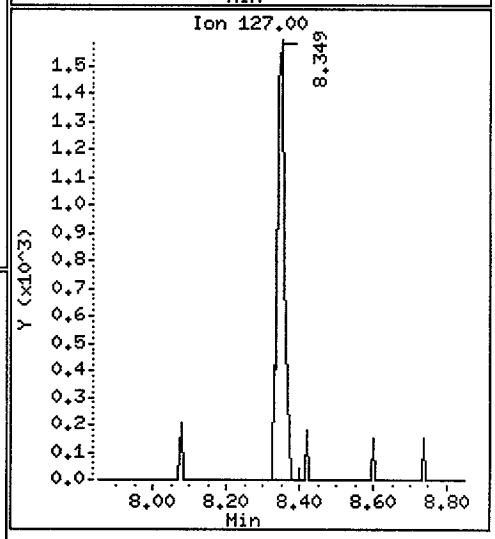
61 Chlorodibromomethane

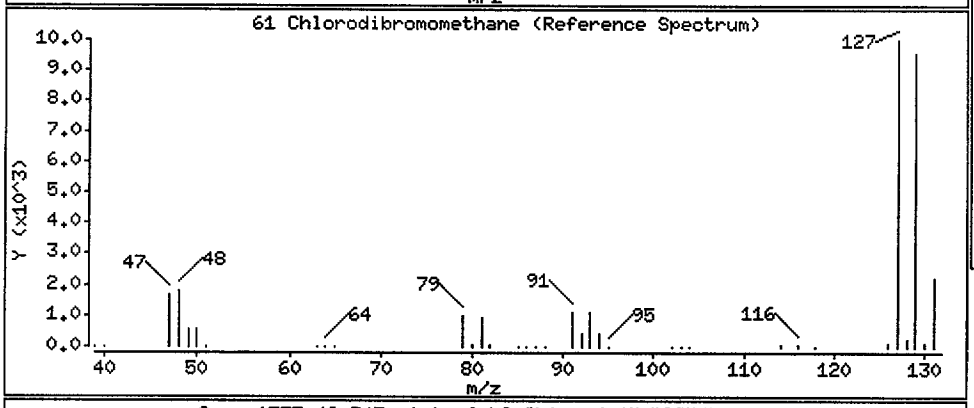
Concentration: 1.0165 ug/L

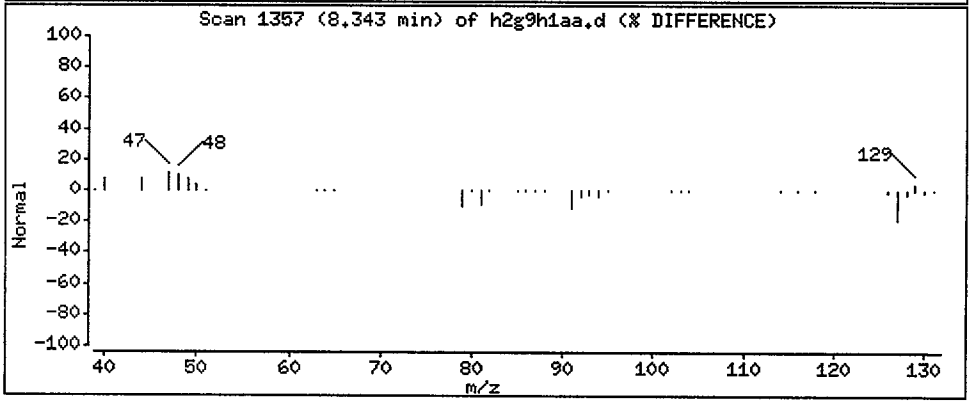












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

Purge Volume: 25.0

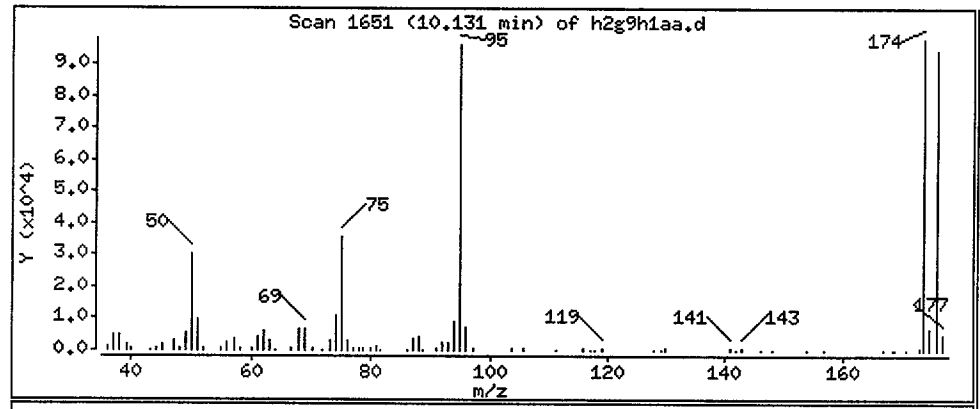
Operator: 063605

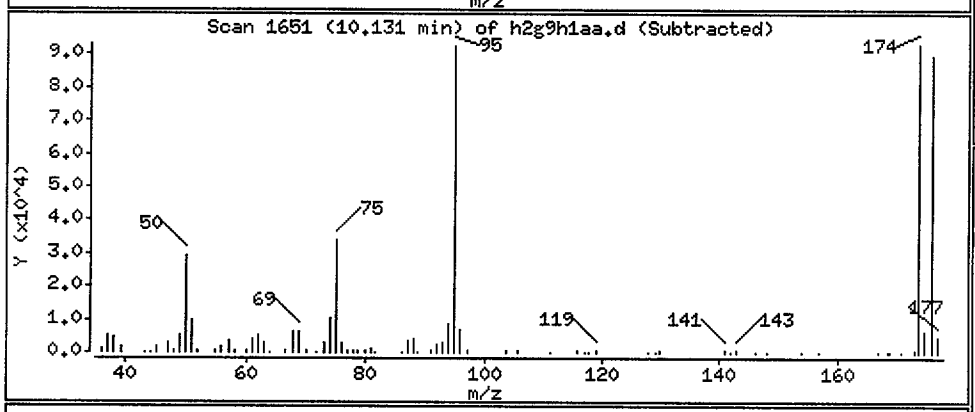
Column phase: J+W 624

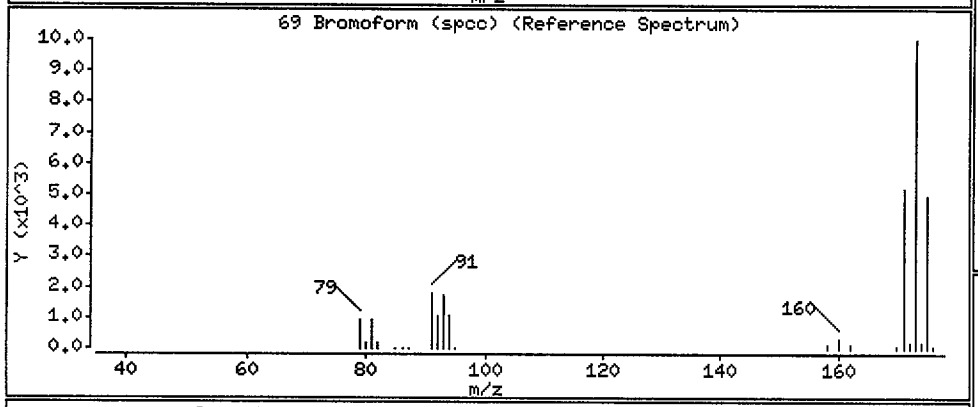
Column diameter: 0.18

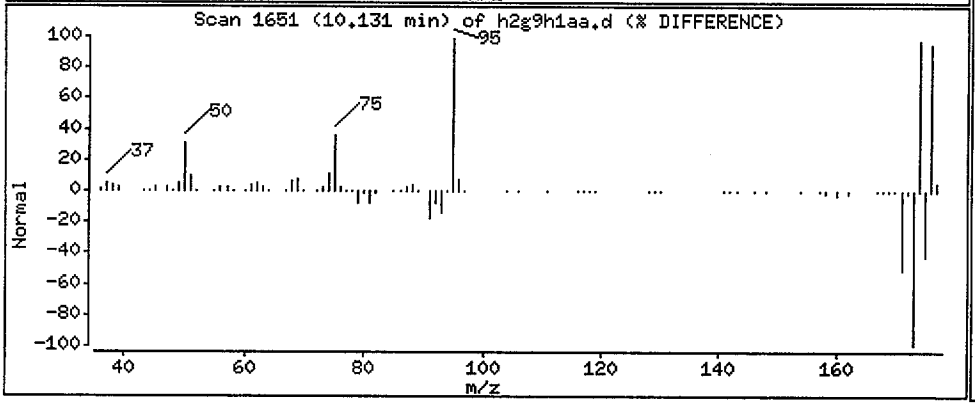
69 Bromoform (spcc)

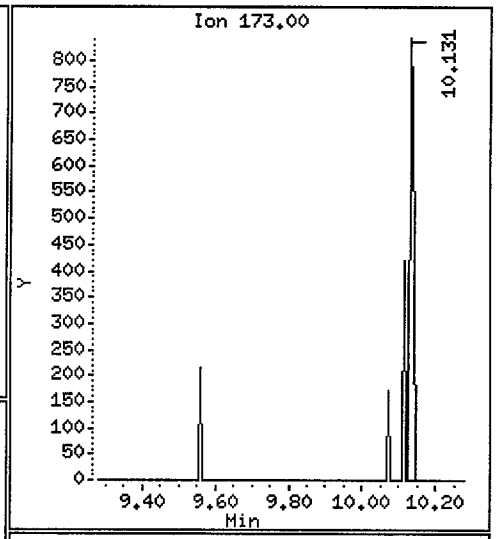
Concentration: 1.0093 ug/L

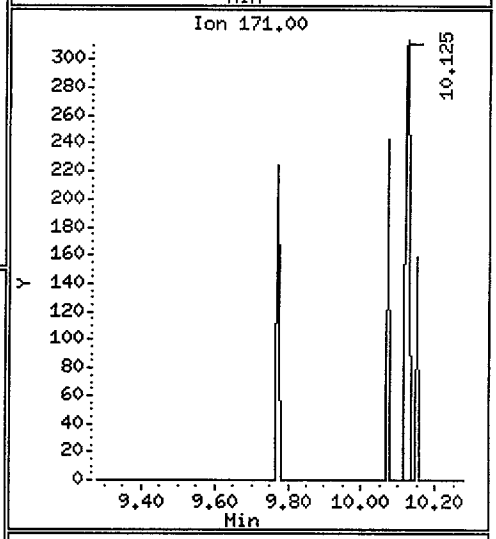


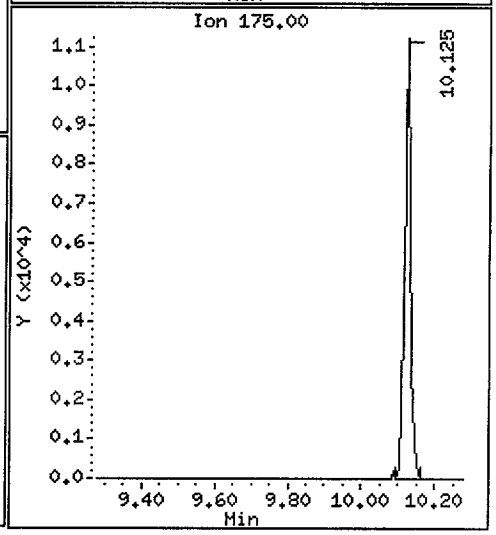












Data File: /var/chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Report Date: 07-Apr-2006 14:33

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2g9h1aa.d
Lab Smp Id: H2G9H1AA Client Smp ID: G-2916-R1-VOST COND
Inj Date : 05-APR-2006 18:36
Operator : 063605 Inst ID: mz.i
Smp Info : H2G9H1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.666	1053454	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Carbon dioxide	0.909	835279	7.92895561	7.9290	5	NIST05.1	80	1

CAS #: 124-38-9

Air

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Date : 05-APR-2006 18:36

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AA,1,0,,

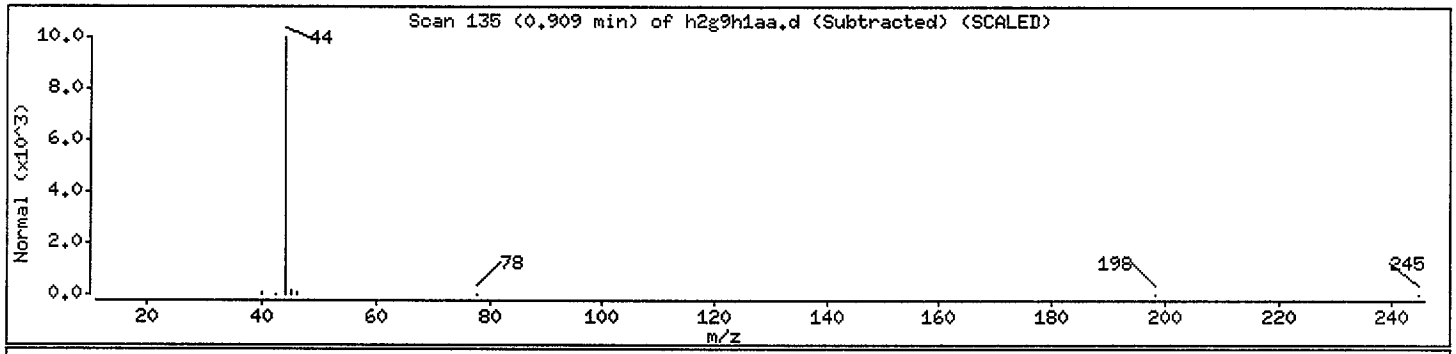
Purge Volume: 25.0

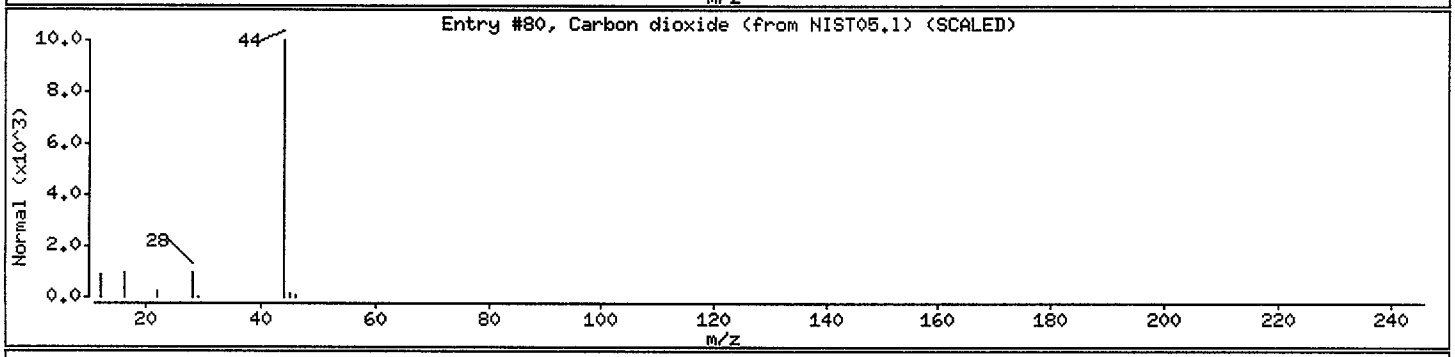
Operator: 063605

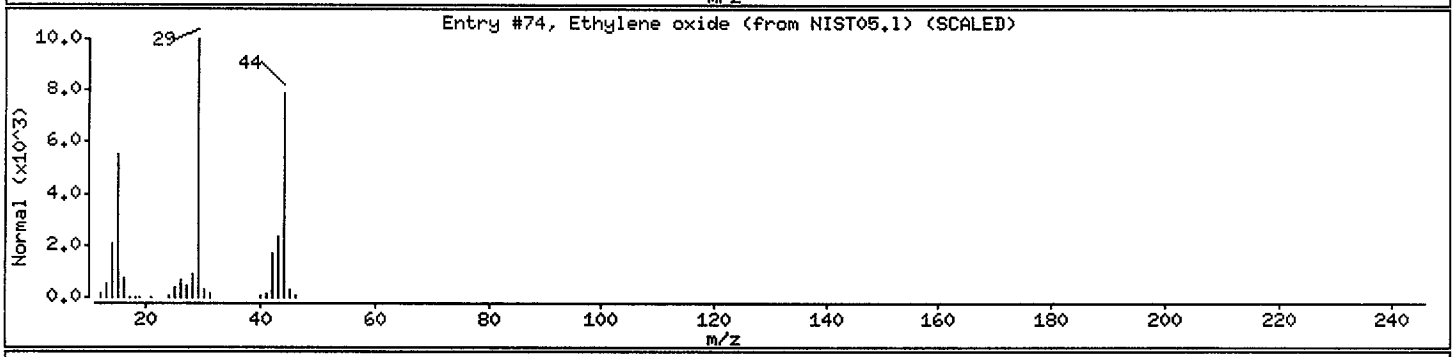
Column phase: J+W 624

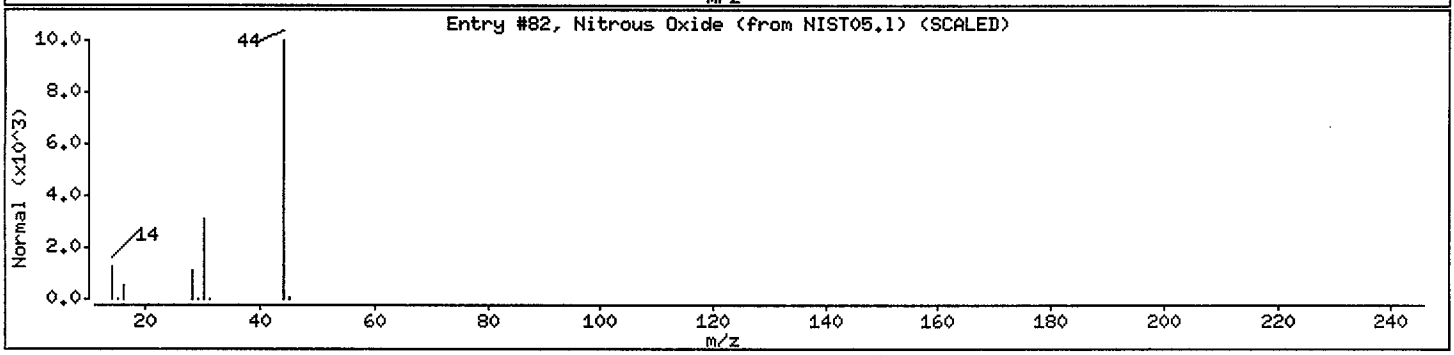
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44









STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AC **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**18**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	116	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d
Report Date: 05-Apr-2006 20:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d
Lab Smp Id: H2G9H1AC Client Smp ID: G-2916-R1-VOST COND
Inj Date : 05-APR-2006 19:46
Operator : 063605 Inst ID: mz.i
Smp Info : H2G9H1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

04/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	823148	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	152989	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	192903	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	131936	11.5674	11.567
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	146876	11.1355	11.136
$ 6 Toluene-d8	98	7.461	7.455	(0.835)	681154	10.1331	10.133
$ 7 4-Bromofluorobenzene	95	10.126	10.126	(0.881)	183887	9.45221	9.4522
15 Bromomethane	94	1.457	1.414	(0.257)	387	~~0.87842~~	~~0.87842~~
22 Acetone	43	2.126	2.126	(0.375)	43049	17.8776	17.878
23 *Iodomethane	142	2.193	2.181	(0.387)	603	0.55035	0.55035
45 1,2-Dichloroethane	62	5.660	5.326	(0.999)	6727	0~~.39137~~	~~0.39137~~
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	6203	0~~.86300~~	~~0.86300~~
69 Bromoform (spcc)	173	10.119	9.779	(1.133)	414	~~0.97113~~	~~0.97113~~

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d
Report Date: 05-Apr-2006 20:03

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g9h1ac.d
Lab Smp Id: H2G9H1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-2916-R1-VOST COND
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	823148	-23.69
2 Chlorobenzene-d5	188899	94450	377798	152989	-19.01
3 1,4 Dichlorobenze	220143	110072	440286	192903	-12.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.00
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d
Report Date: 05-Apr-2006 20:03

STL Knoxville

RECOVERY REPORT

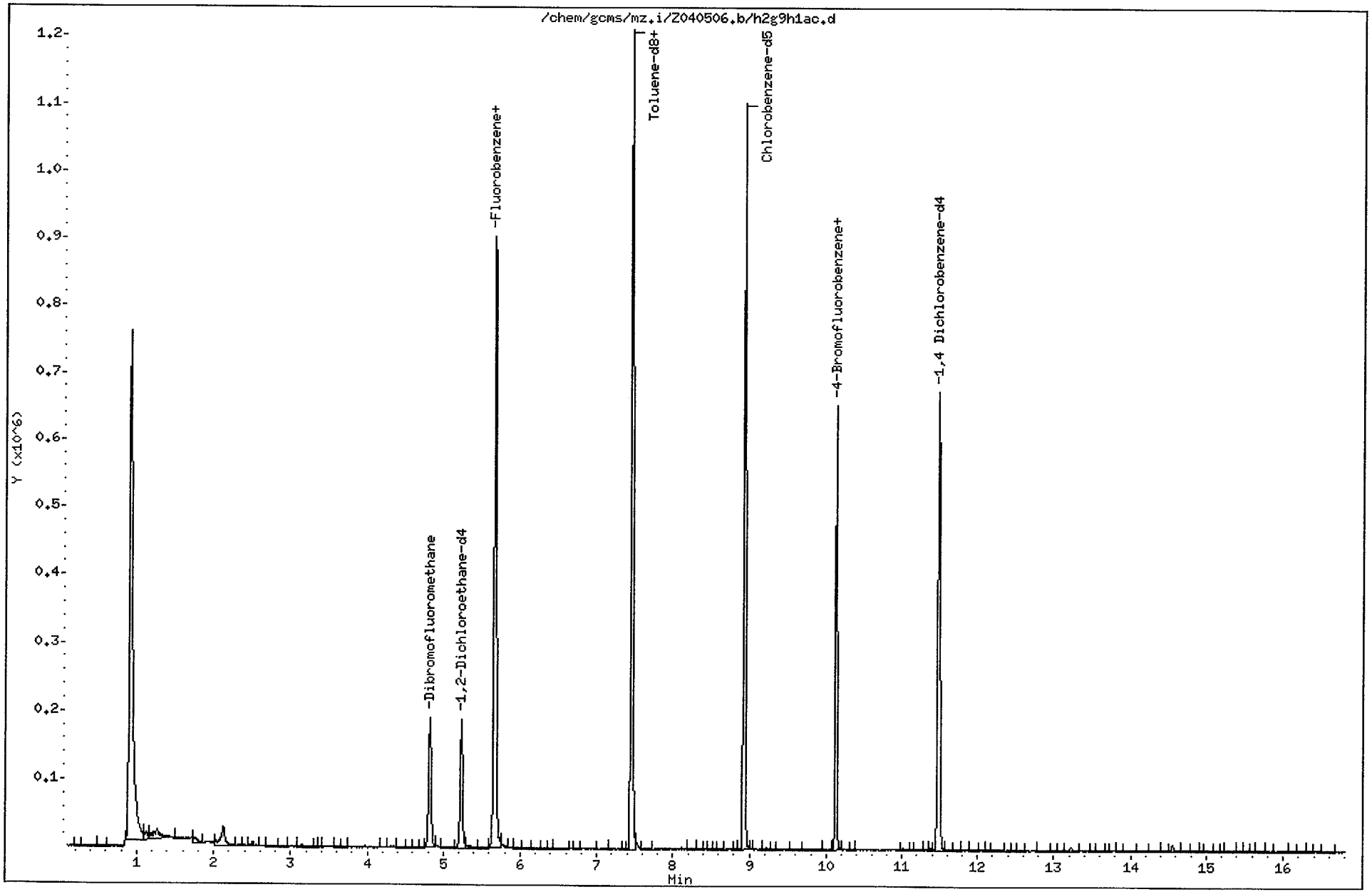
Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2G9H1AC
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2916-R1-VOST COND
Operator: 063605
SampleType: SAMPLE DUPLICATE{♥╚Çz·H @
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.567	115.67	71-127
$ 4 Dibromofluorometha	10.000	11.136	111.36	79-120
$ 6 Toluene-d8	10.000	10.133	101.33	80-120
$ 7 4-Bromofluorobenze	10.000	9.4522	94.52	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d
Date : 05-APR-2006 19:46
Client ID: G-2916-R1-VOST COND
Sample Info: H2G9H1AC,1,0,,
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d

Date : 05-APR-2006 19:46

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AC,1,0,,

Purge Volume: 25.0

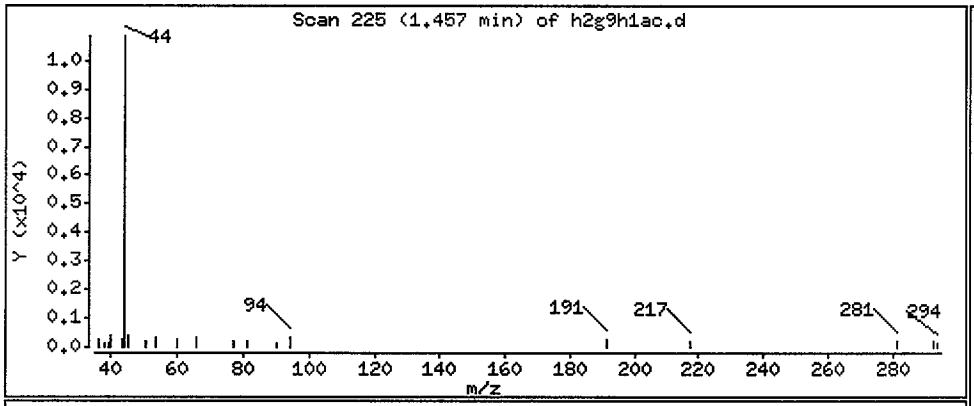
Operator: 063605

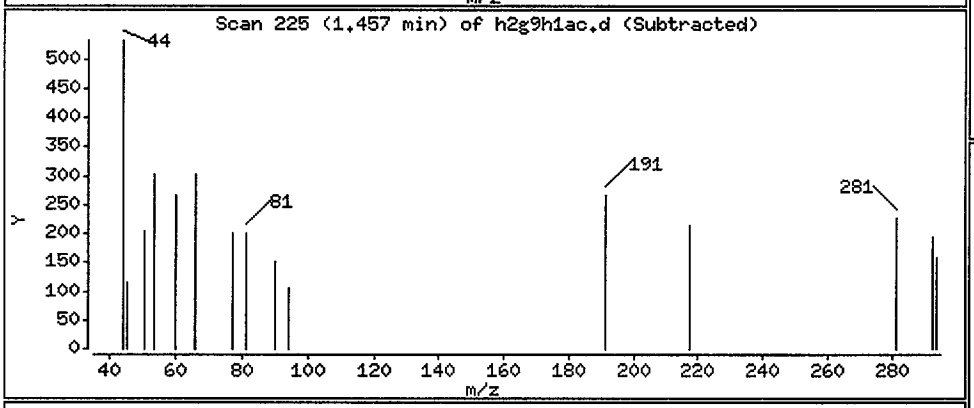
Column phase: J+W 624

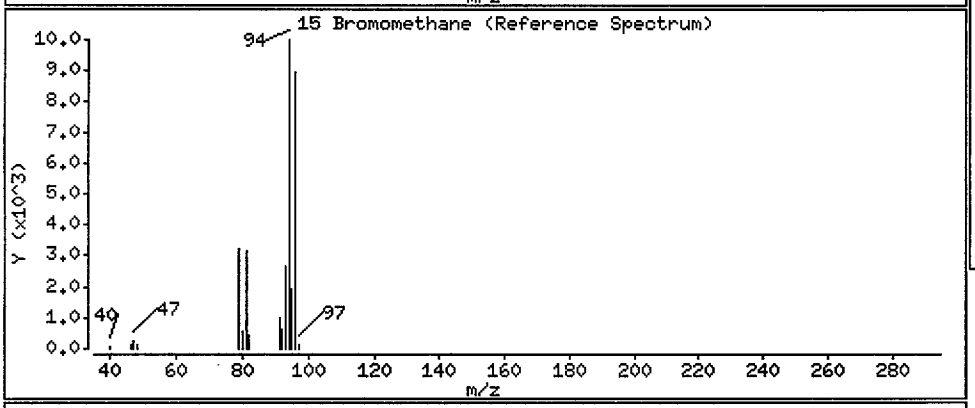
Column diameter: 0.18

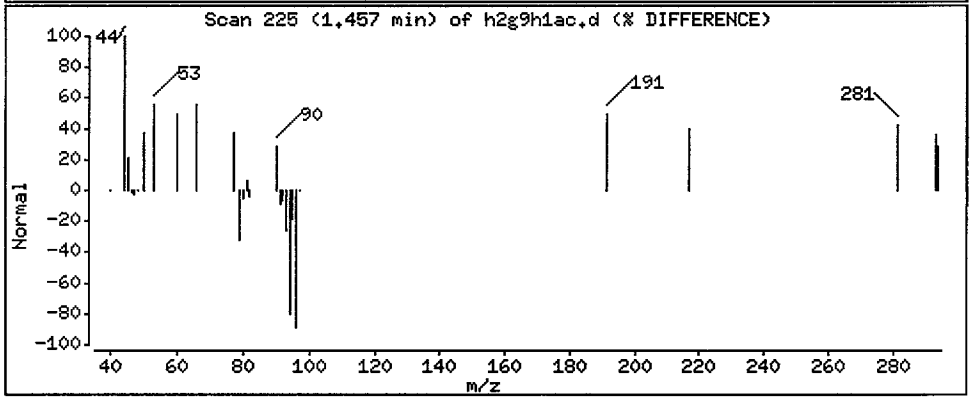
15 Bromomethane

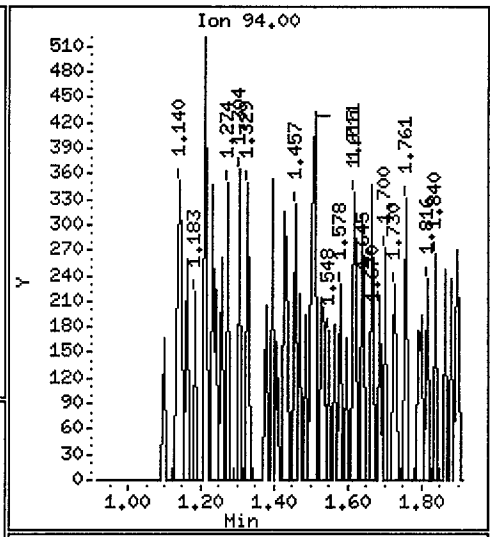
Concentration: 0.87842 ug/L

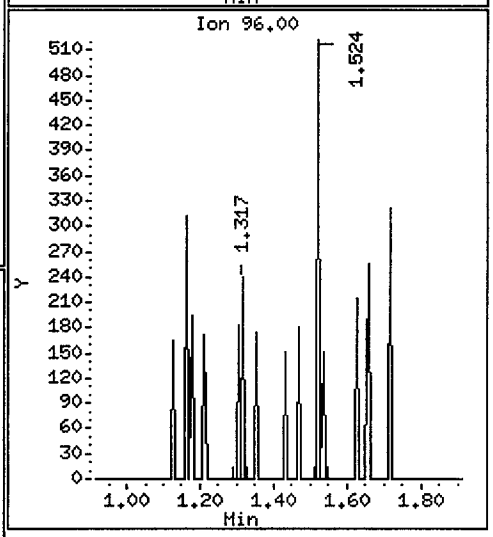












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d

Date : 05-APR-2006 19:46

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AC,1,0,,

Purge Volume: 25.0

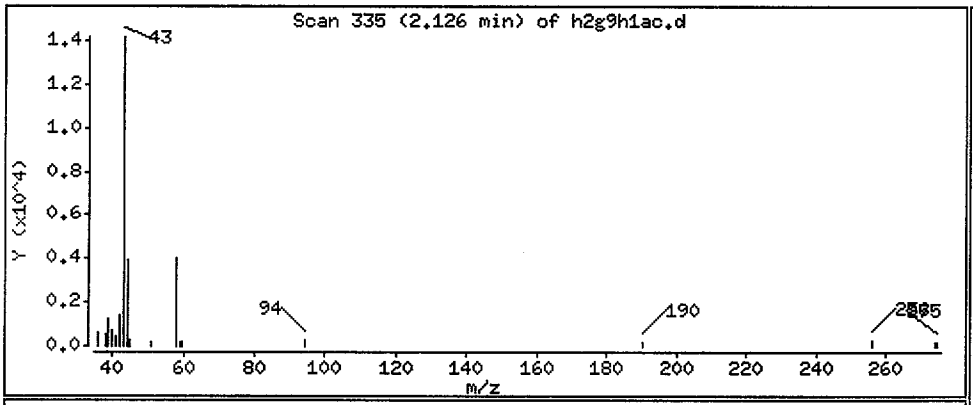
Operator: 063605

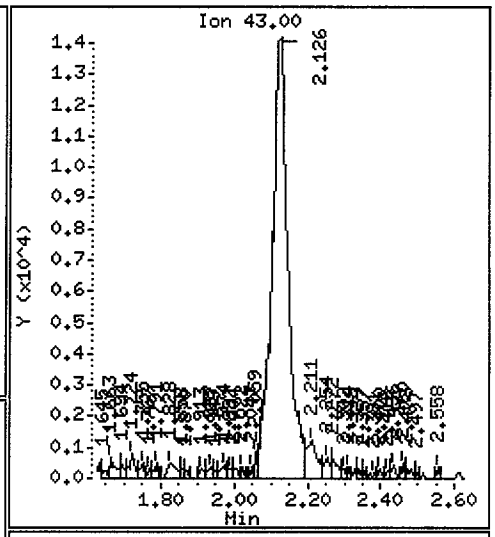
Column phase: J+W 624

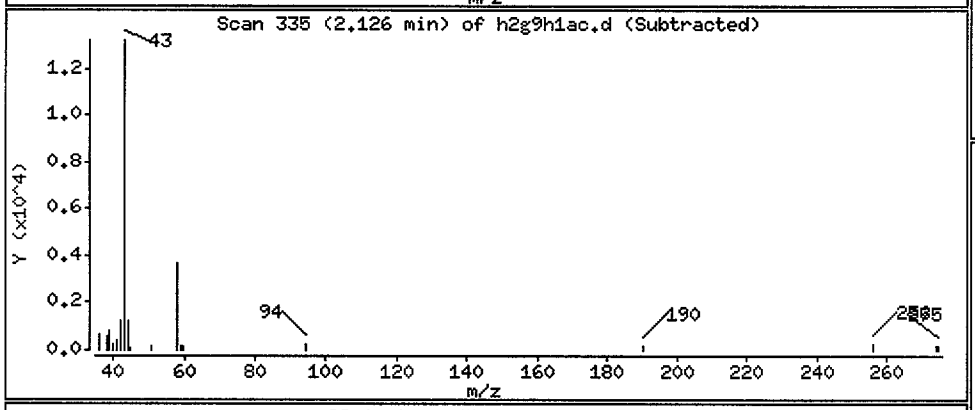
Column diameter: 0.18

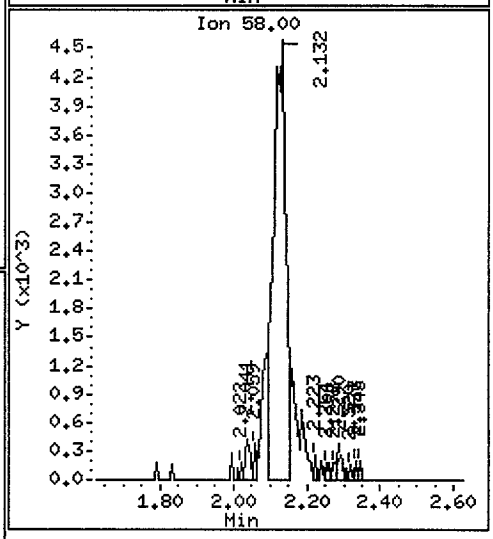
22 Acetone

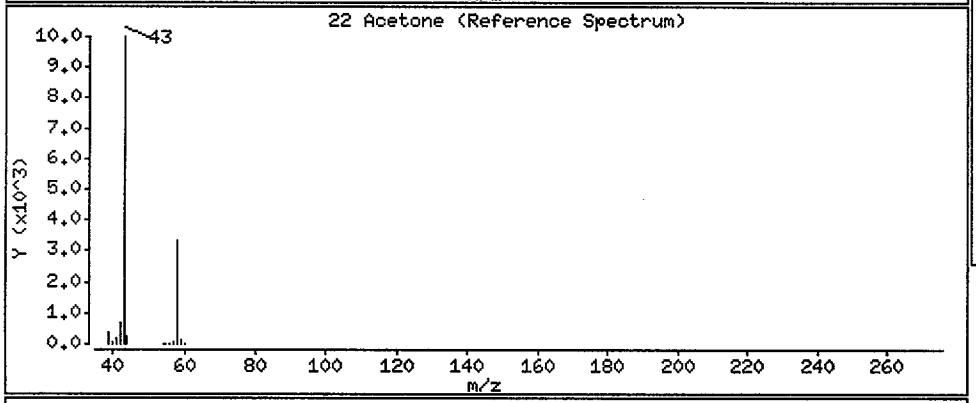
Concentration: 17.878 ug/L

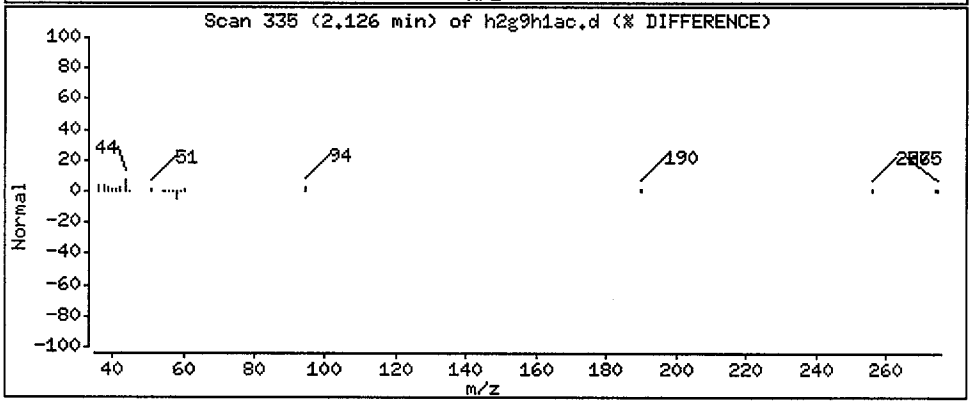












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d

Date : 05-APR-2006 19:46

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AC,1,0,,

Purge Volume: 25.0

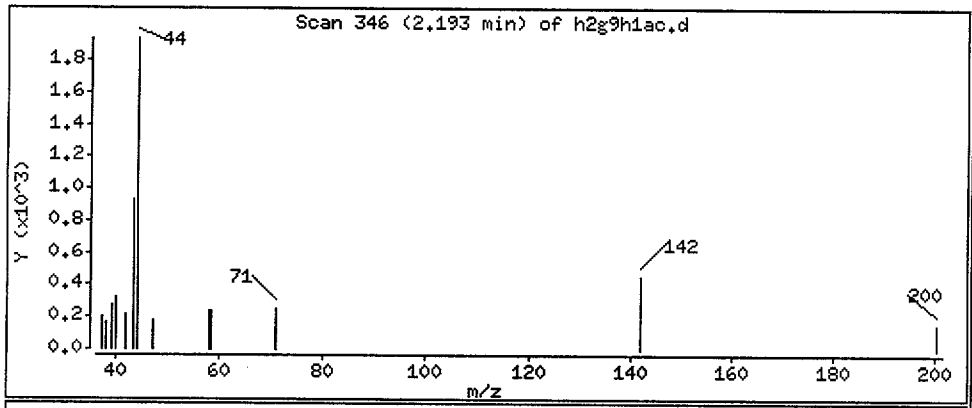
Operator: 063605

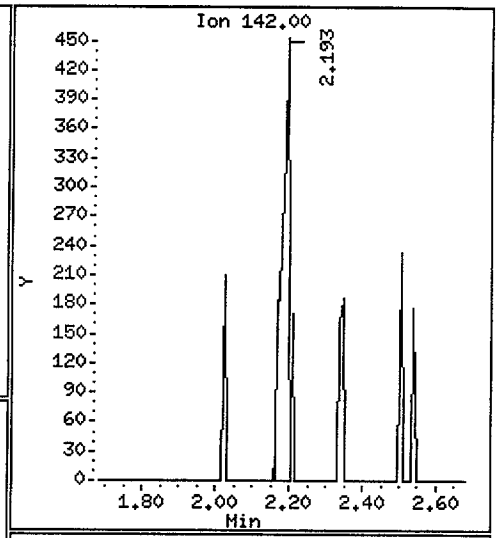
Column phase: J+W 624

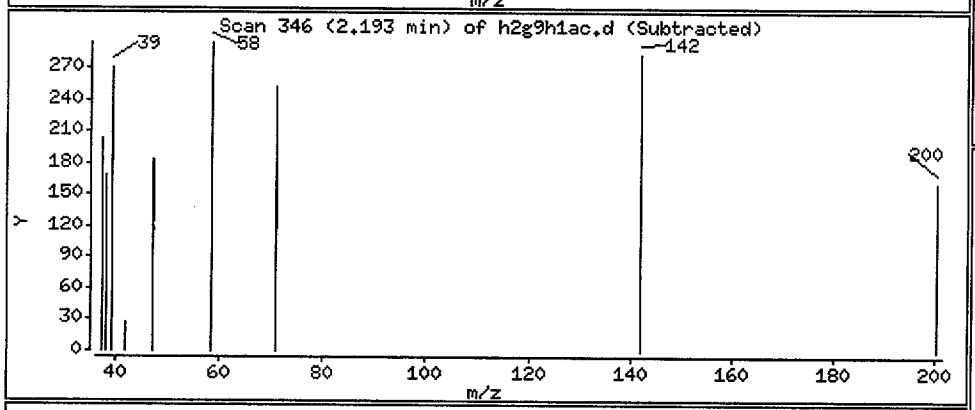
Column diameter: 0.18

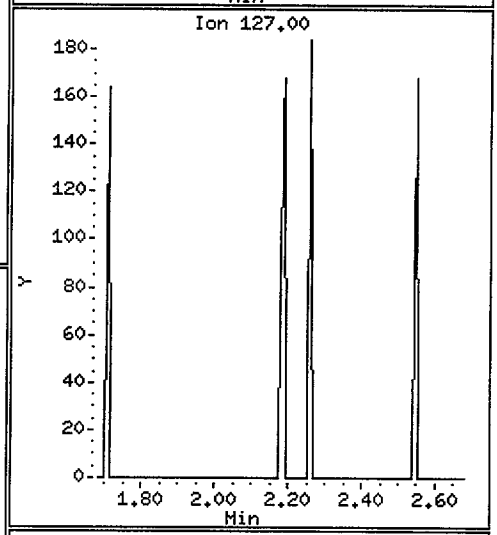
23 *Iodomethane

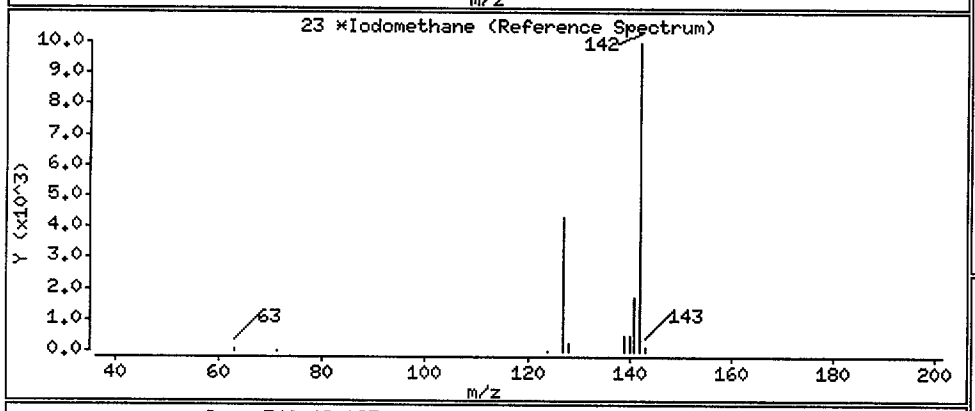
Concentration: 0.55035 ug/L

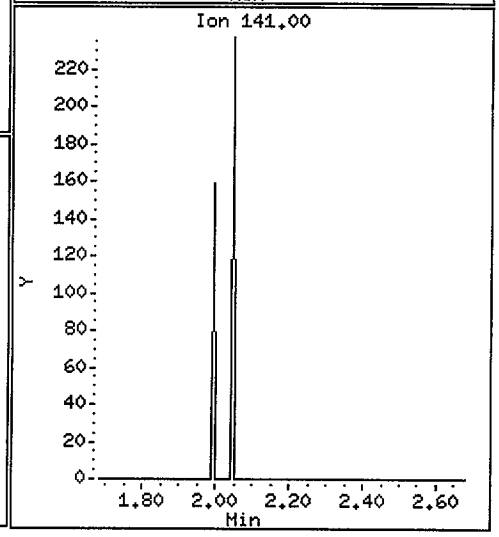


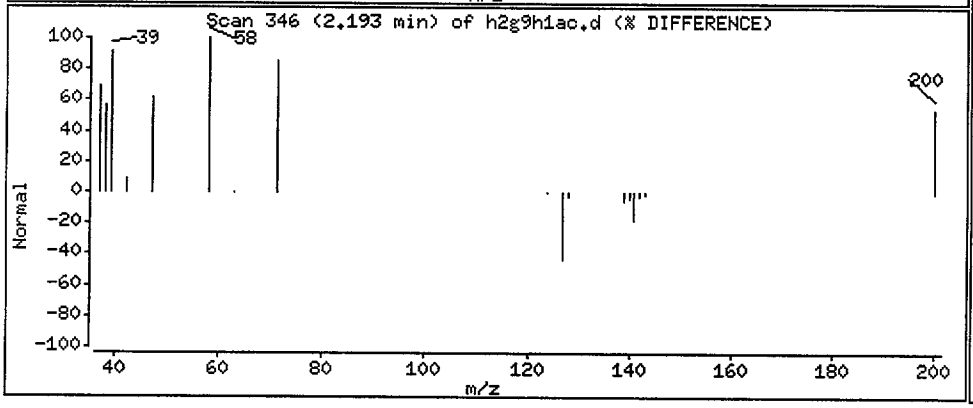












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d

Date : 05-APR-2006 19:46

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AC,1,0,,

Purge Volume: 25.0

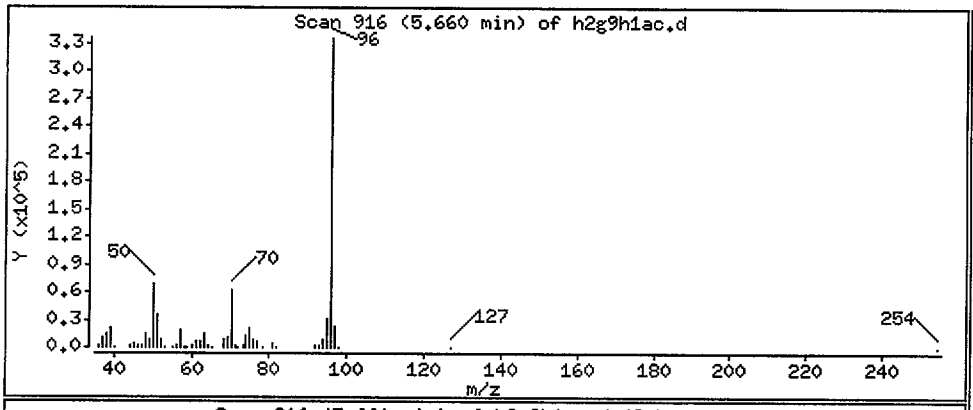
Operator: 063605

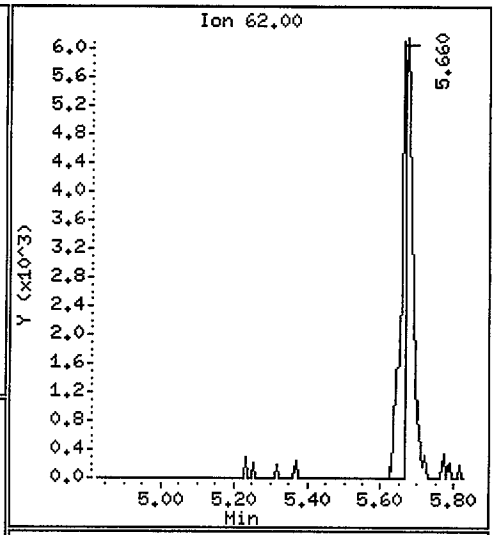
Column phase: J+W 624

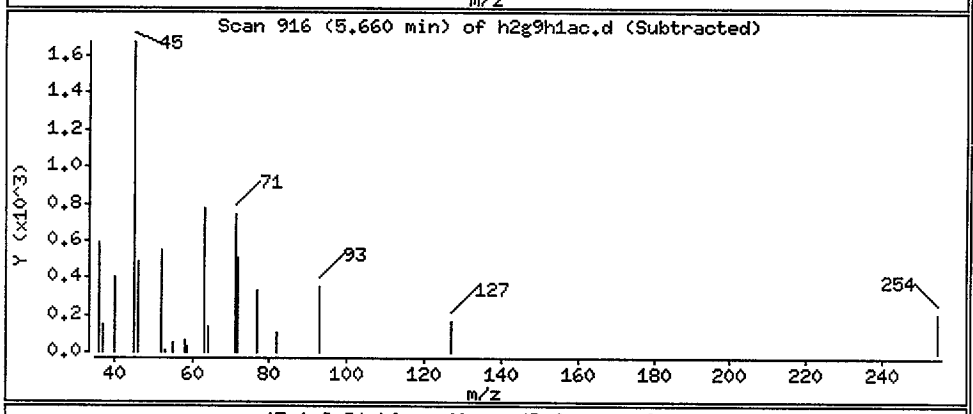
Column diameter: 0.18

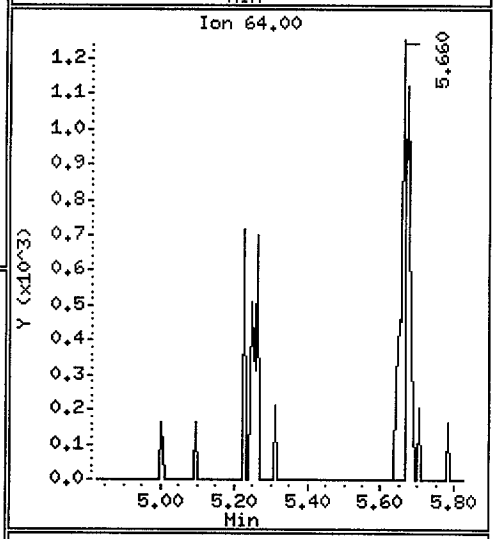
45 1,2-Dichloroethane

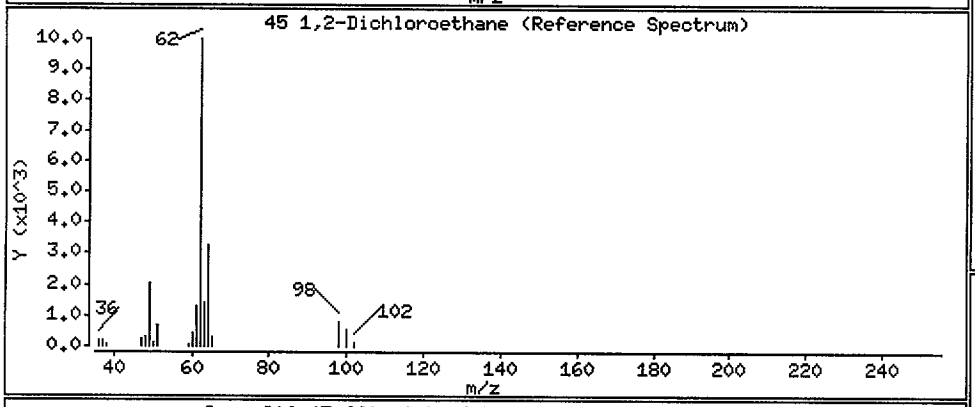
Concentration: 0.39137 ug/L

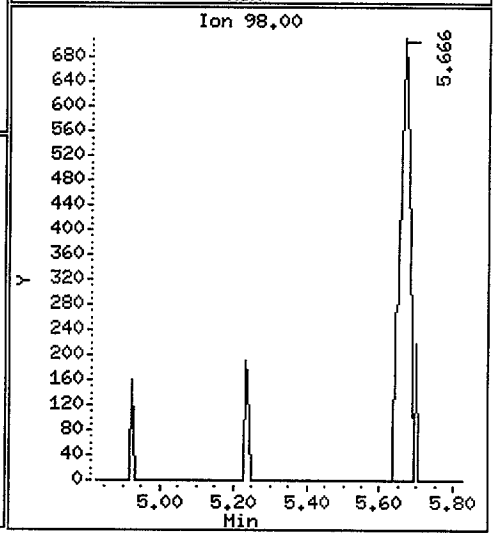


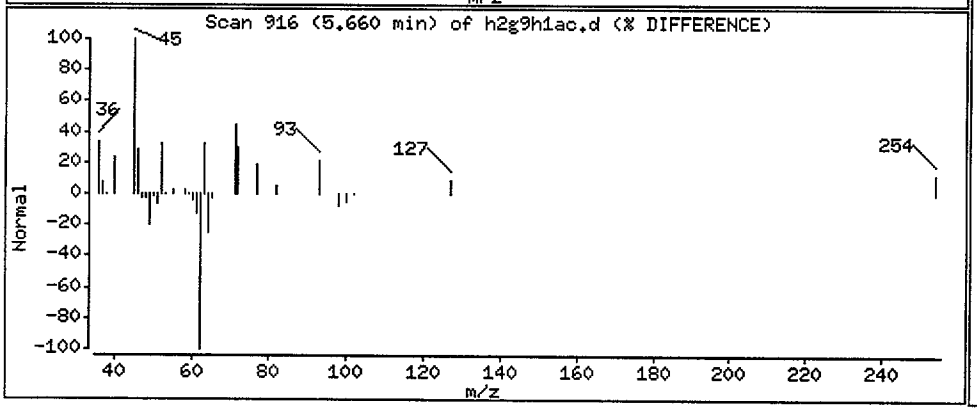












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d

Date : 05-APR-2006 19:46

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AC,1,0,,

Purge Volume: 25.0

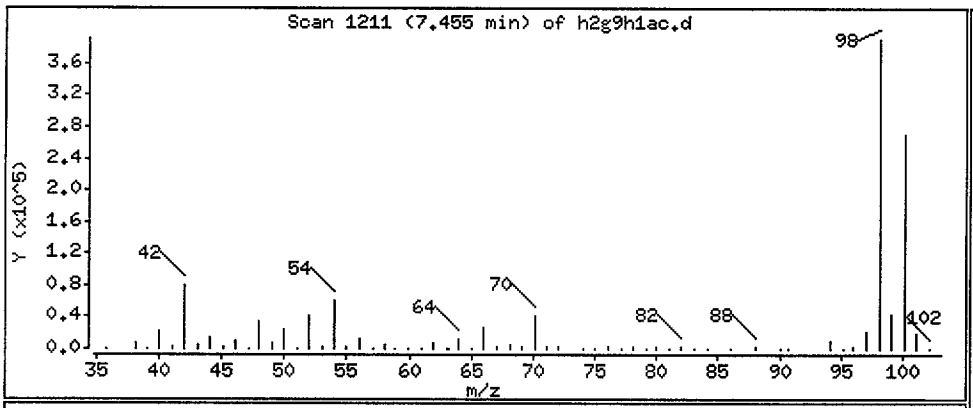
Operator: 063605

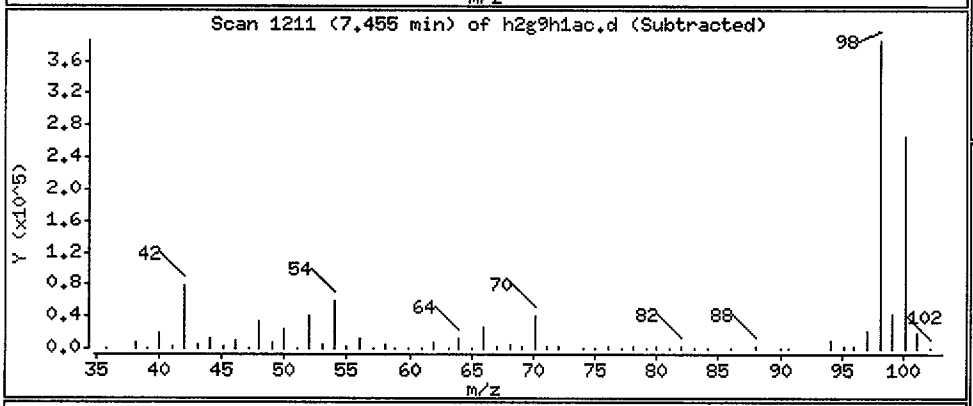
Column phase: J+W 624

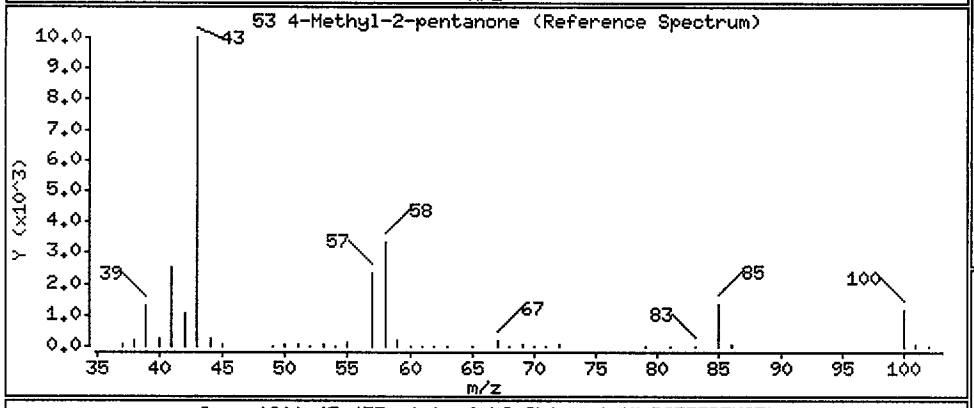
Column diameter: 0.18

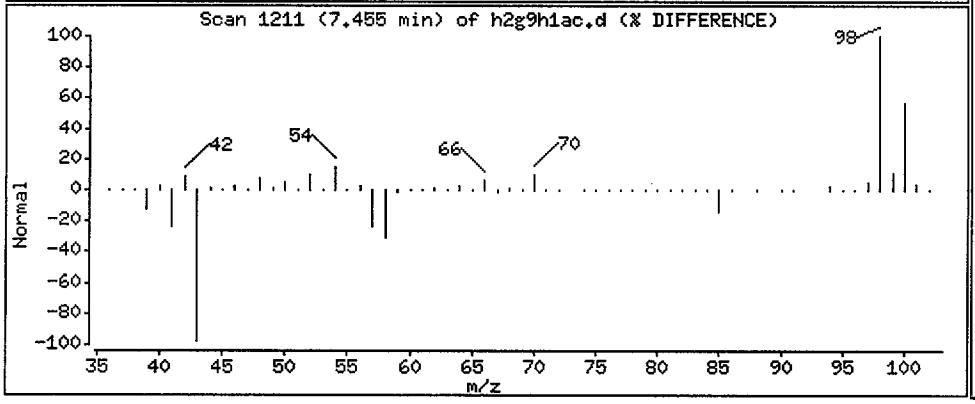
53 4-Methyl-2-pentanone

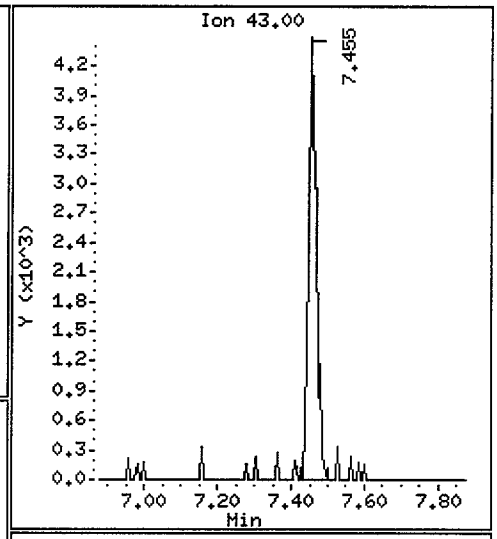
Concentration: 0.86300 ug/L

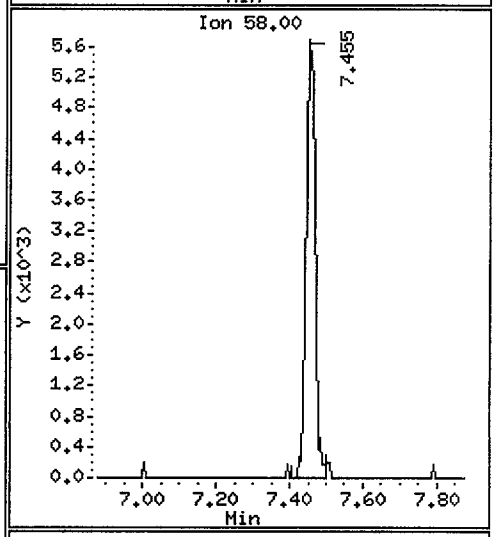


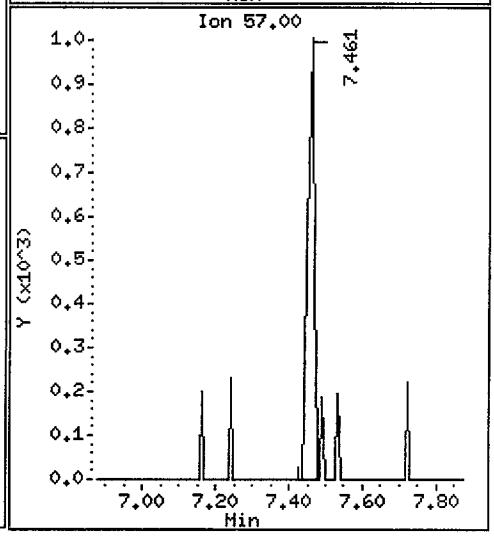












Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1ac.d

Date : 05-APR-2006 19:46

Client ID: G-2916-R1-VOST COND

Instrument: mz.i

Sample Info: H2G9H1AC,1,0,,

Purge Volume: 25.0

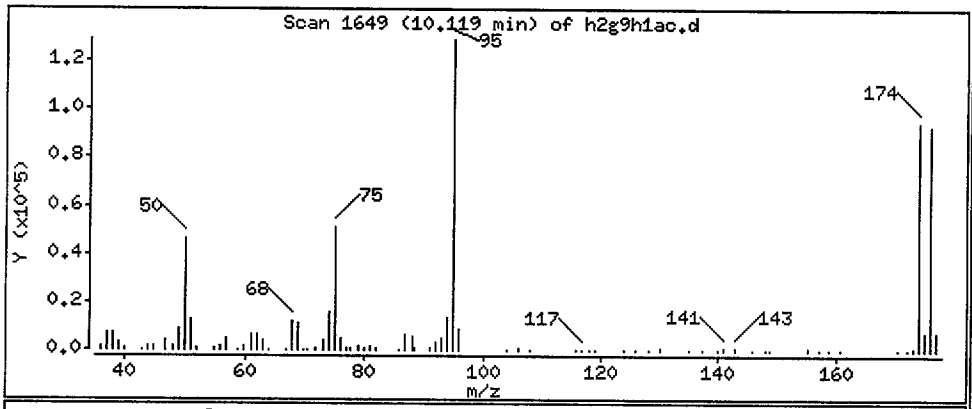
Operator: 063605

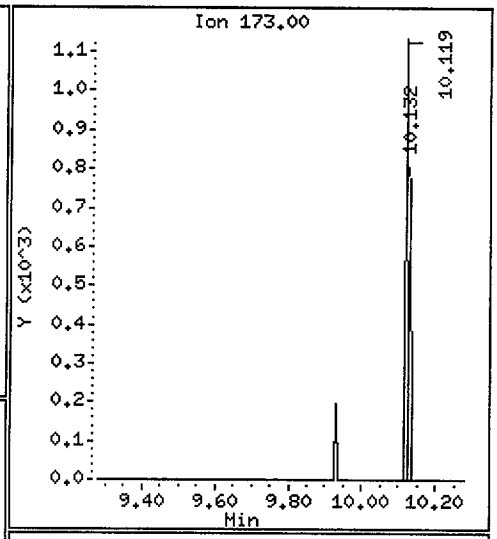
Column phase: J+W 624

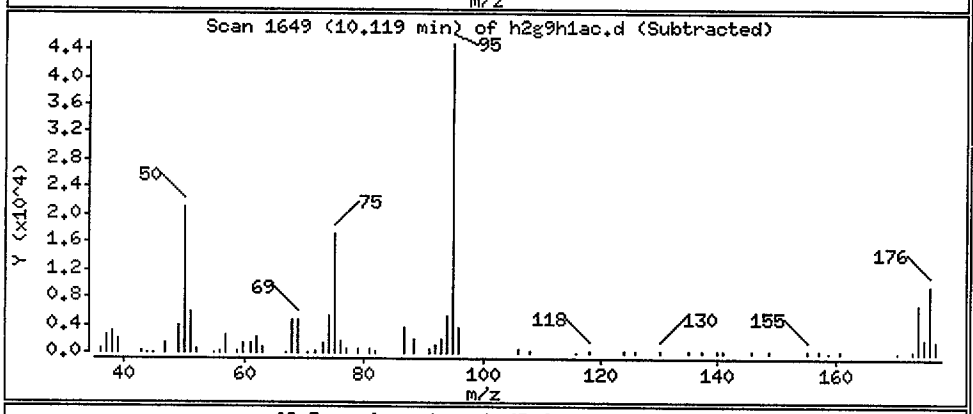
Column diameter: 0.18

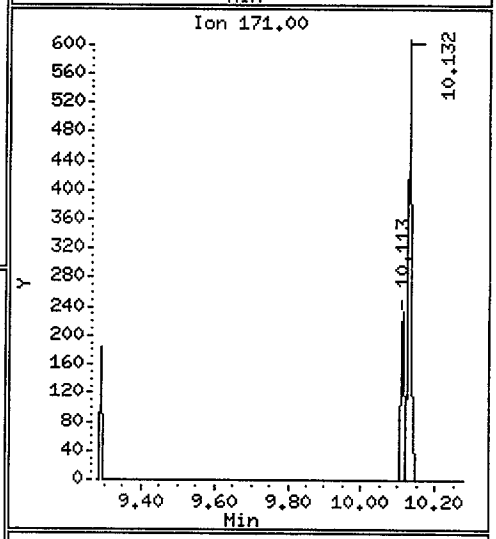
69 Bromoform (spcc)

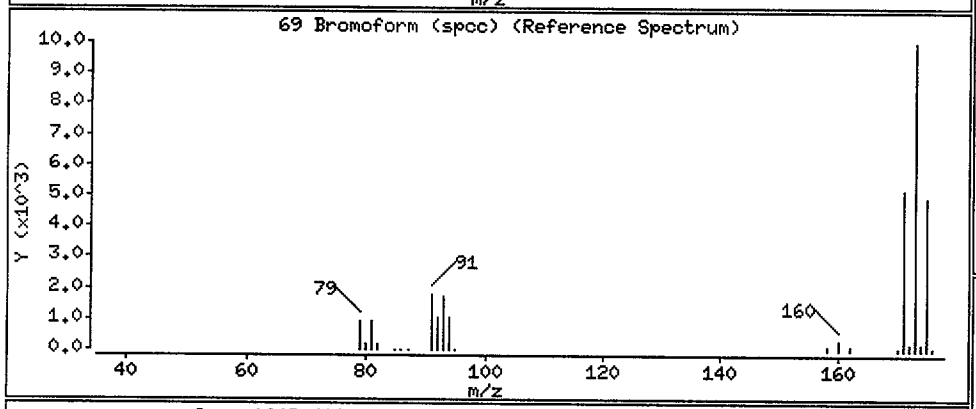
Concentration: 0.97113 ug/L

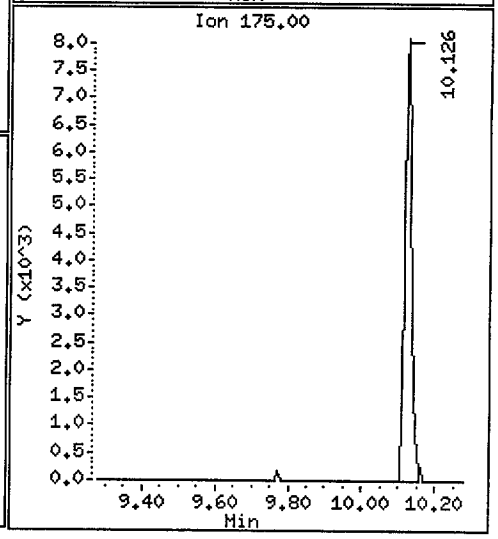


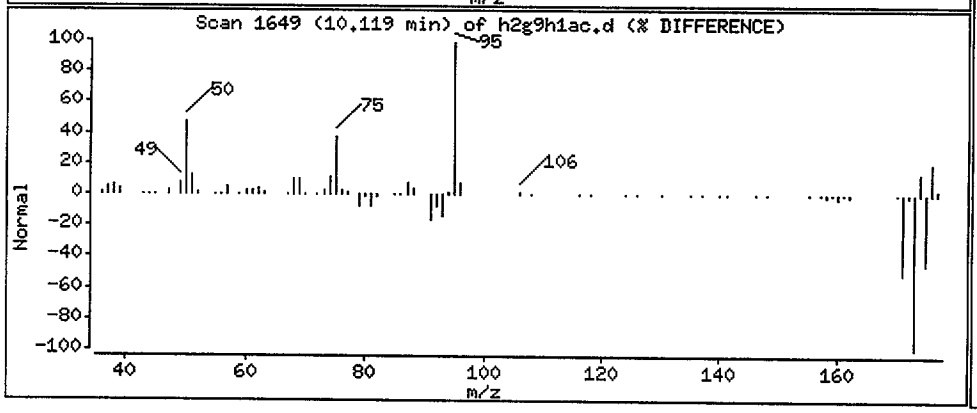












Data File: /var/chem/gcms/mz.i/Z040506.b/h2g9h1ac.d
Report Date: 07-Apr-2006 14:33

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2g9h1ac.d
Lab Smp Id: H2G9H1AC Client Smp ID: G-2916-R1-VOST COND
Inj Date : 05-APR-2006 19:46
Operator : 063605 Inst ID: mz.i
Smp Info : H2G9H1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.666	903234	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Carbon dioxide AT						CAS #: 124-38-9		
	0.909	751944	8.32501877	8.3250	5	NIST05.1	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2g9h1ac.d

Date : 05-APR-2006 19:46

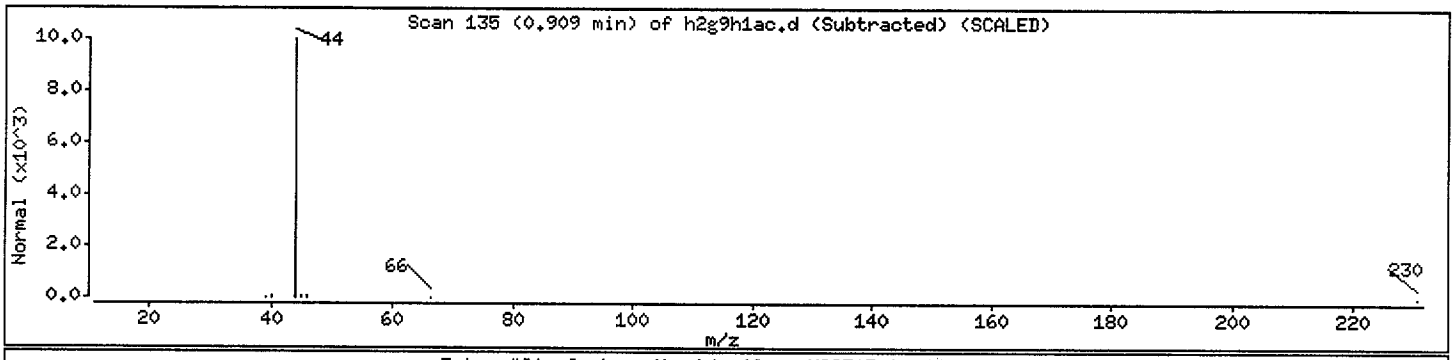
Client ID: G-2916-R1-VOST COND | Instrument: mz.i

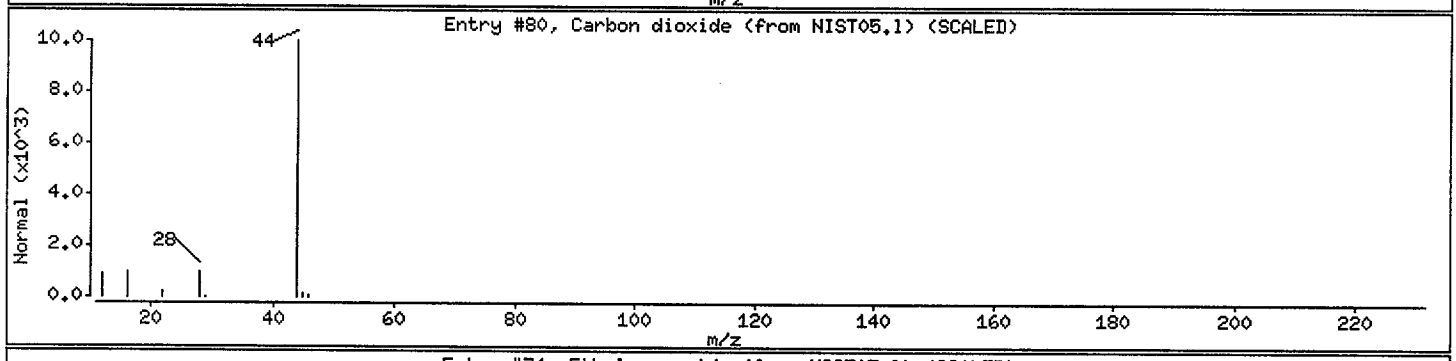
Sample Info: H2G9H1AC,1,0,,

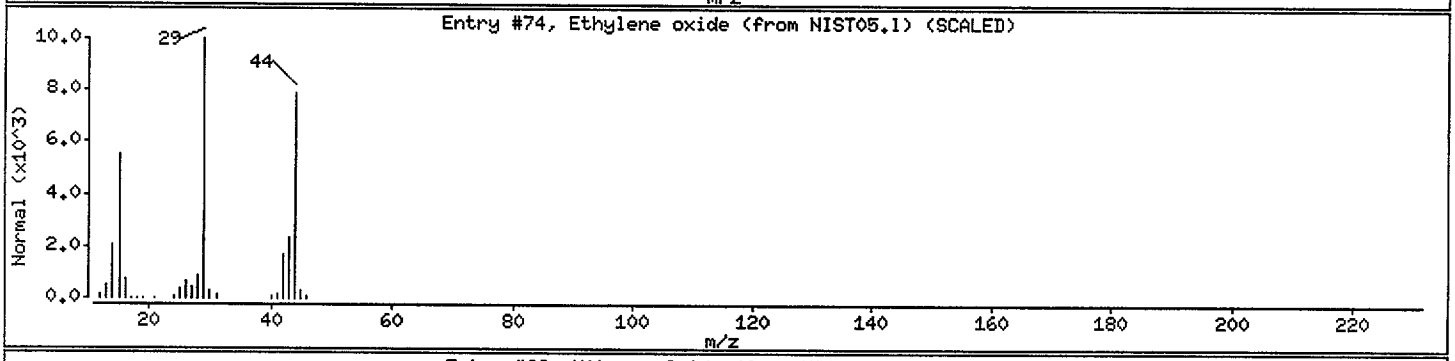
Purge Volume: 25.0 | Operator: 063605

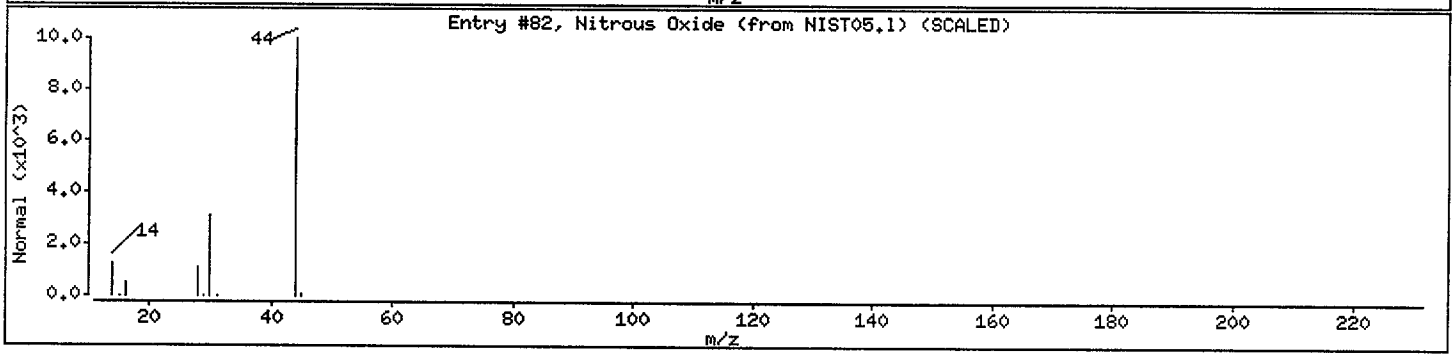
Column phase: J+W 624 | Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44









STL Knoxville - ACS

Client Sample ID: G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-010 **Work Order #...:** H2G9J1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.099 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-010 **Work Order #...:** H2G9J1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.013 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	79	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-010 **Work Order #:** H2G9J1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Report Date: 07-Apr-2006 14:38

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Lab Smp Id: H2G9J1AA Client Smp ID: G-2917-R1-VOST TENA
Inj Date : 07-APR-2006 14:21
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9J1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/07/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	774456	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	172673	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	234535	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.851)	132120	10.6467	0.26617
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	106101	9.88721	0.24718
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	687561	9.06237	0.22656
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	186153	7.87021	0.19676
15 Bromomethane	94	1.423	1.418	(0.251)	460	0.88998	~~0.022250~~
20 1,1-Dichloroethene (ccc)	96	2.068	2.069	(0.364)	903	0.05367	0.0013418
22 Acetone	43	2.122	2.123	(0.374)	1934	3.66141	0.091535 - See reprint for (m)
23 *Iodomethane	142	2.195	2.184	(0.387)	256	0.53493	0.013373
39 *THF	42	4.544	4.532	(0.801)	751	0.40919	0.010230
45 1,2-Dichloroethane	62	5.681	5.335	(1.001)	12096	0.74796	~~0.018699~~
53 4-Methyl-2-pentanone	43	7.464	7.386	(1.315)	5944	0.87888	~~0.021972~~
54 Toluene (ccc)	91	7.531	7.532	(0.843)	4249	0.04325	0.0010811
55 trans-1,3-Dichloropropene	75	8.121	7.793	(0.909)	314	0.64532	~~0.016133~~

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Report Date: 14-Apr-2006 16:13

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Lab Smp Id: H2G9J1AA Client Smp ID: G-2917-R1-VOST TENA
Inj Date : 07-APR-2006 14:21
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9J1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	774456	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	172673	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	234535	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.851)	132120	10.6466	0.26616
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	106101	9.88720	0.24718
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	687561	9.06242	0.22656
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	186153	7.87019	0.19675
20 1,1-Dichloroethene (ccc)	96	2.068	2.069	(0.364)	903	0.05365	0.0013412
22 Acetone	43	2.122	2.123	(0.374)	3211	3.94219	0.098555(M)
23 *Iodomethane	142	2.195	2.184	(0.387)	256	0.53489	0.013372
39 *THF	42	4.544	4.532	(0.801)	751	0.40870	0.010218
54 Toluene (ccc)	91	7.531	7.532	(0.843)	4249	0.04324	0.0010810

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Report Date: 14-Apr-2006 16:13

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Report Date: 07-Apr-2006 14:38

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g9j1aa.d
Lab Smp Id: H2G9J1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-2917-R1-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	774456	-18.70
2 Chlorobenzene-d5	164101	82050	328202	172673	5.22
3 1,4 Dichlorobenze	204390	102195	408780	234535	14.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.68	-0.02
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Report Date: 07-Apr-2006 14:38

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G9J1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-2917-R1-VOST TENA
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

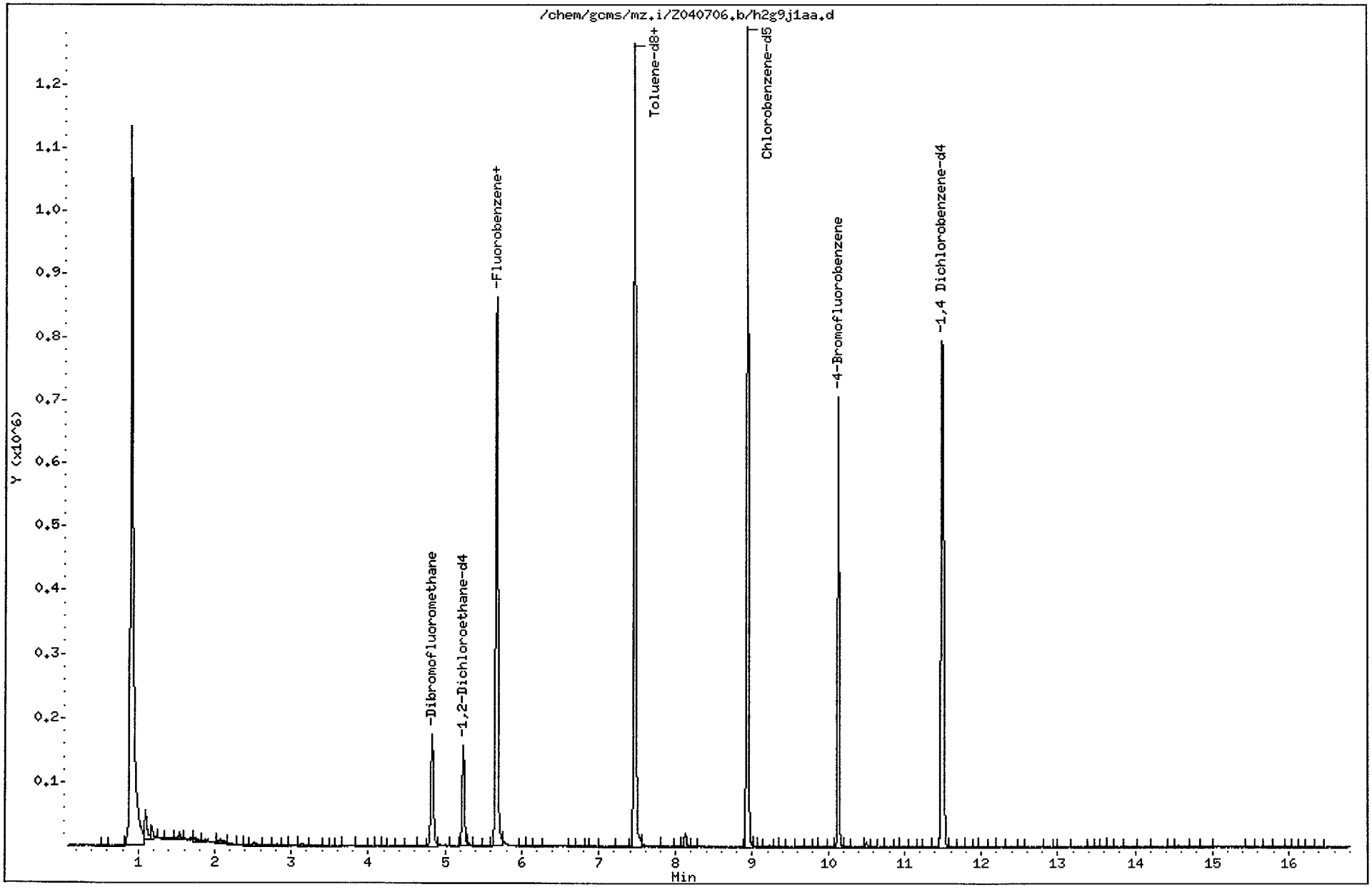
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26617	106.47	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24718	98.87	50-150
$ 6 Toluene-d8	0.25000	0.22656	90.62	50-150
$ 7 4-Bromofluorobenze	0.25000	0.19676	78.70	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Date : 07-APR-2006 14:21
Client ID: G-2917-R1-VOST TENA
Sample Info: H2G9J1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

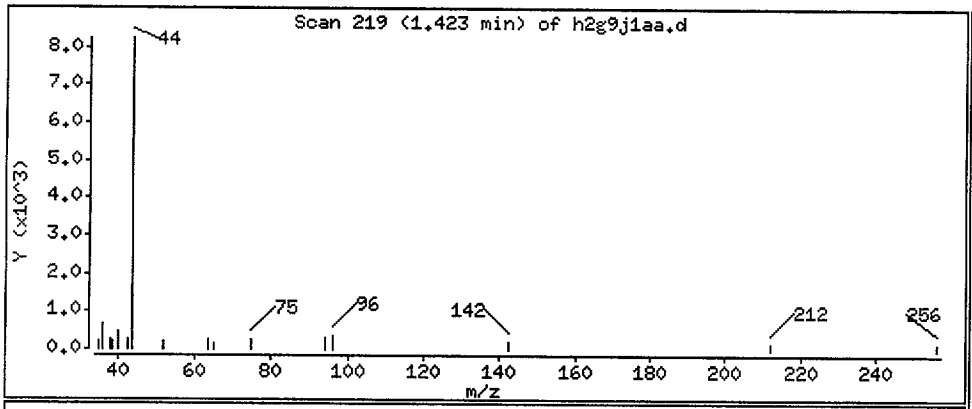
Operator: 22980

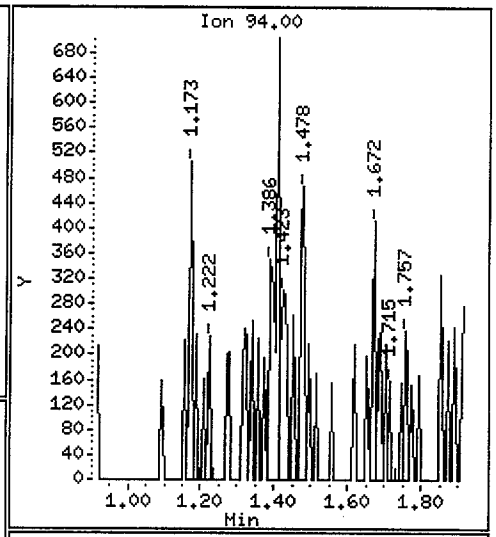
Column phase: J+W 624

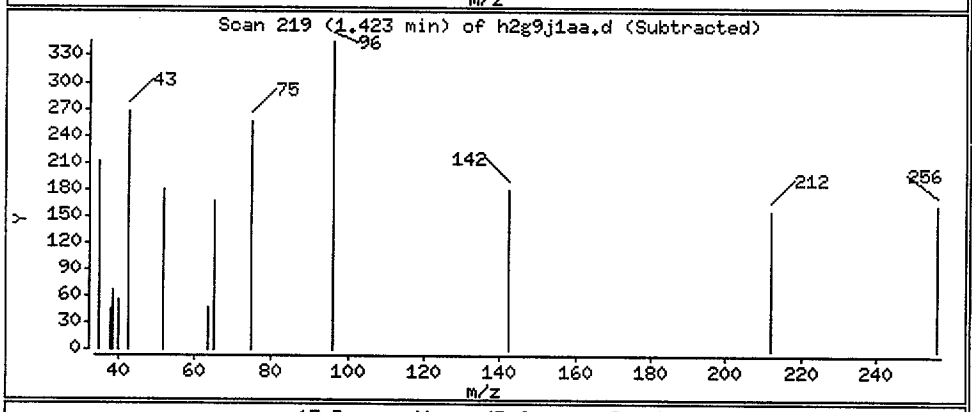
Column diameter: 0.18

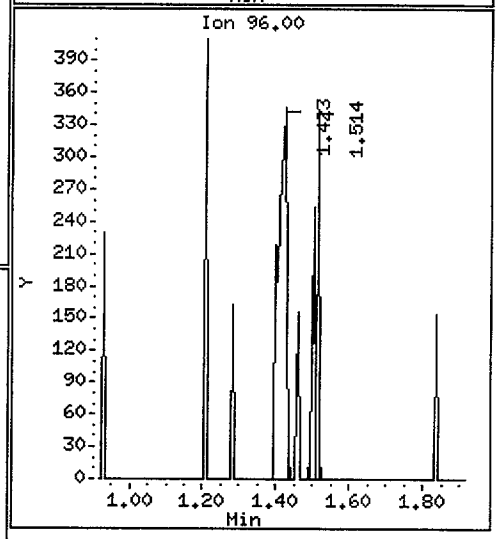
15 Bromomethane

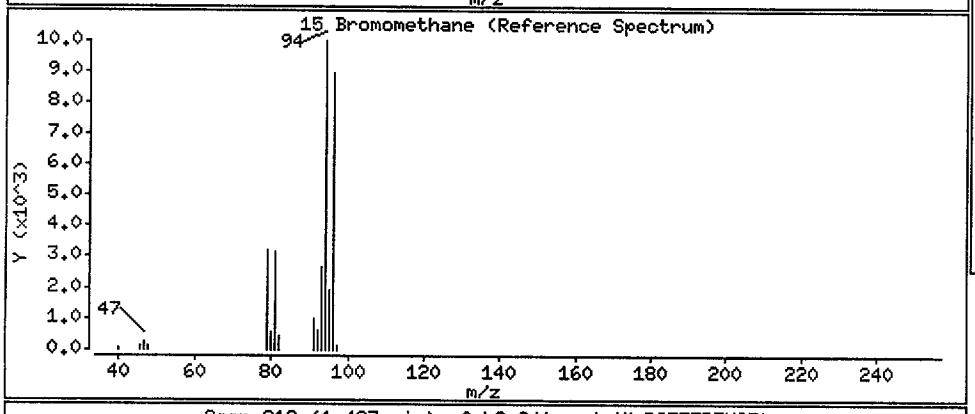
Concentration: 0.022250 ug

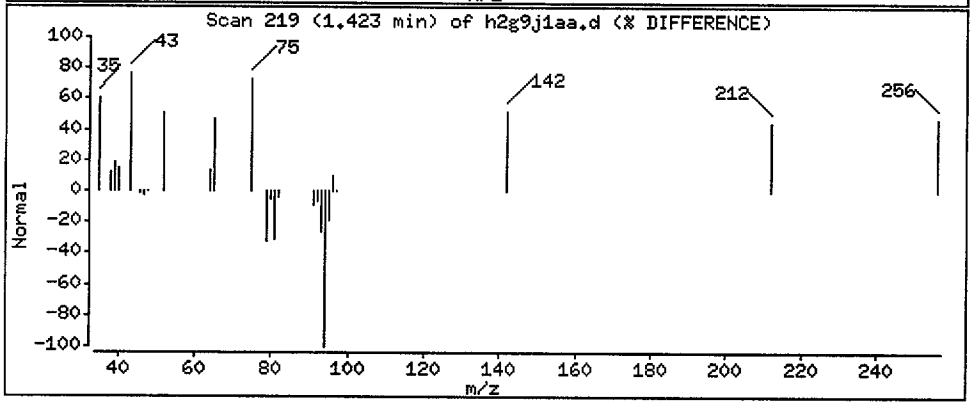












Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

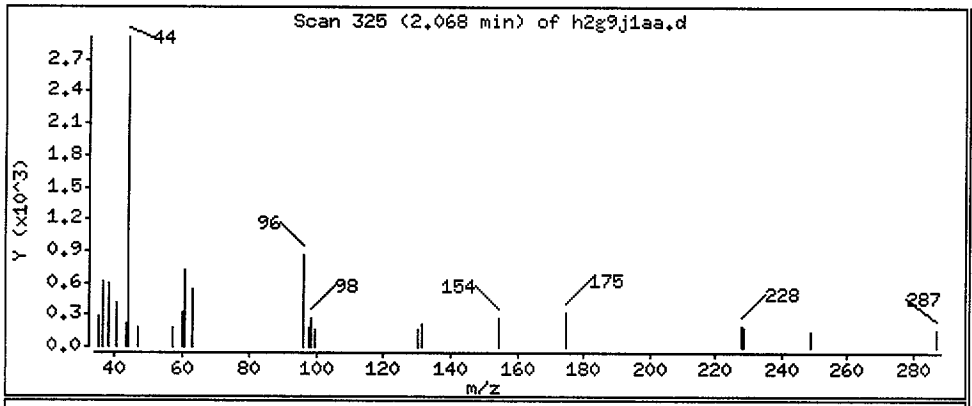
Operator: 22980

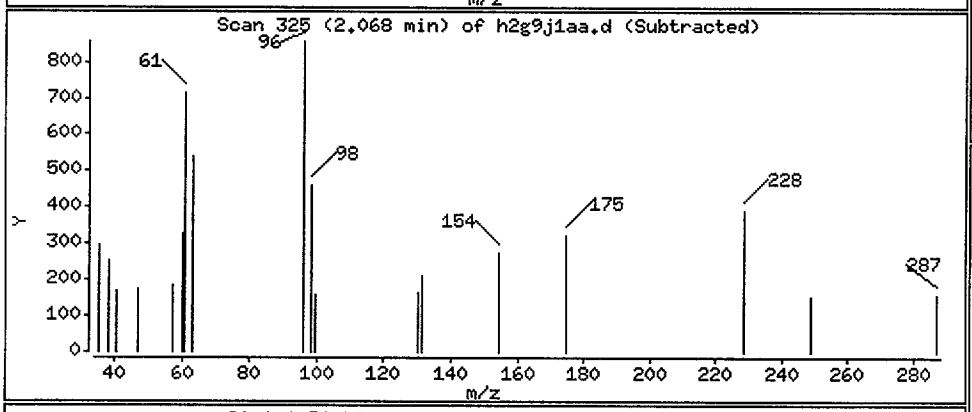
Column phase: J+W 624

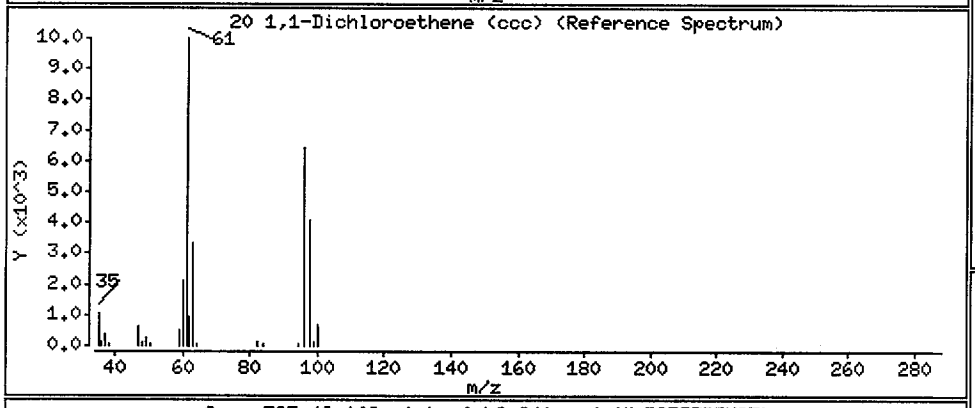
Column diameter: 0.18

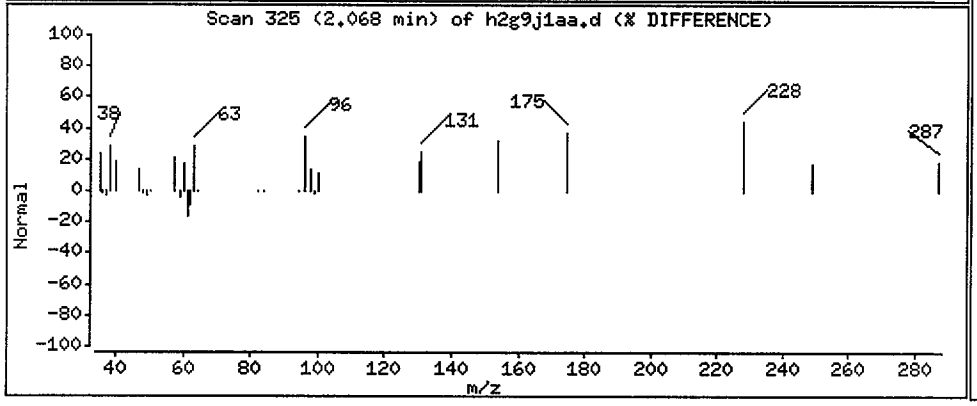
20 1,1-Dichloroethene (ccc)

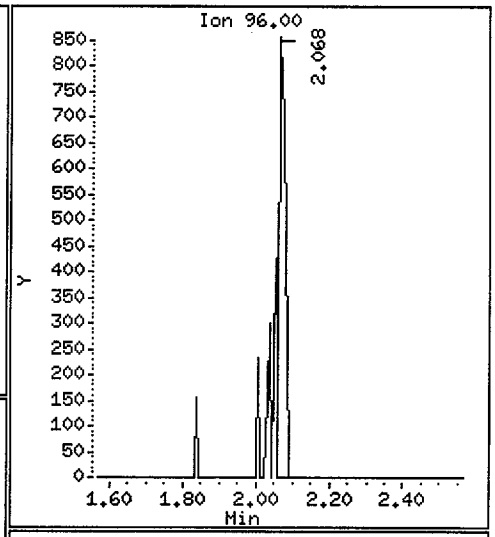
Concentration: 0.0013418 ug

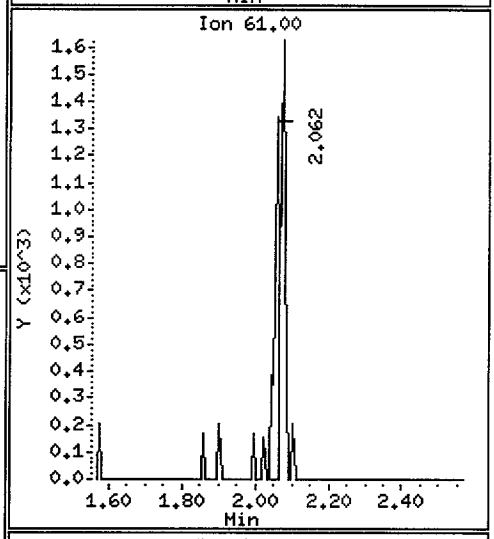


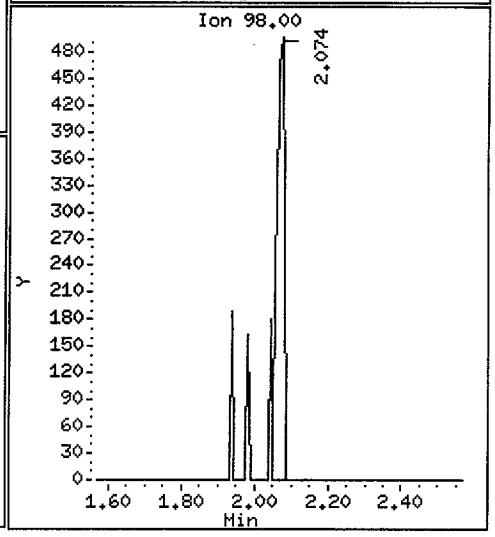












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

Operator: 22980

DW 4/14/06

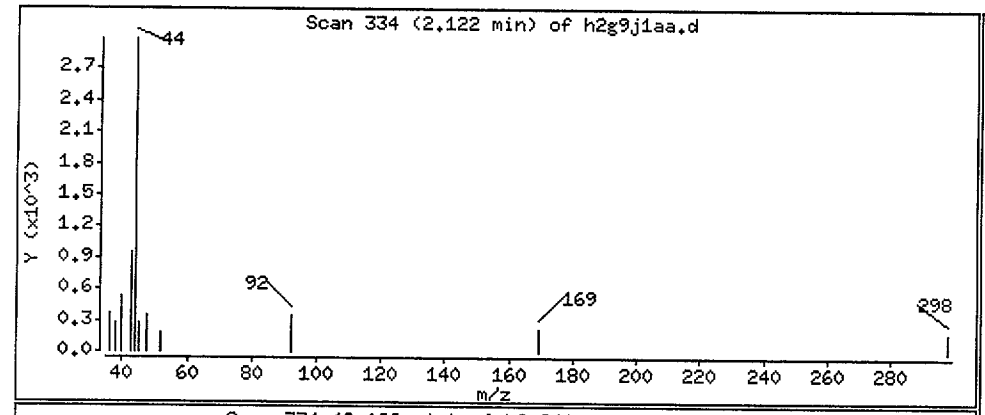
1

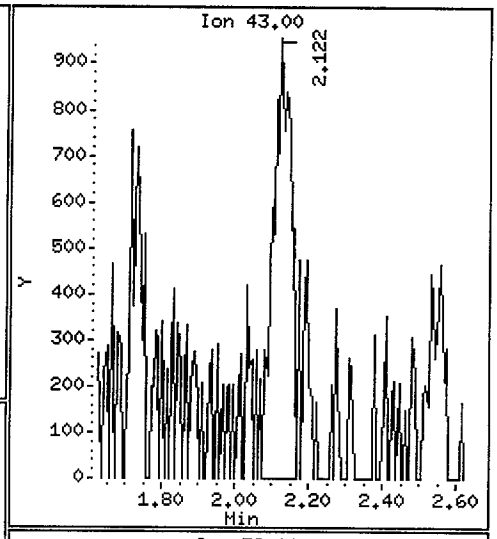
Column phase: J+W 624

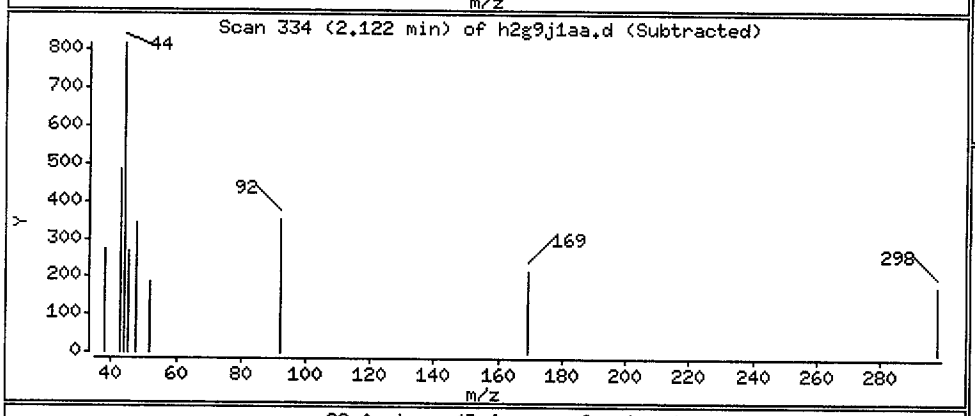
Column diameter: 0.18

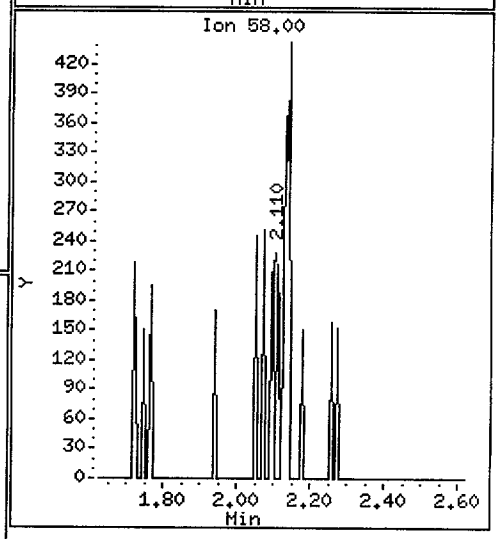
22 Acetone

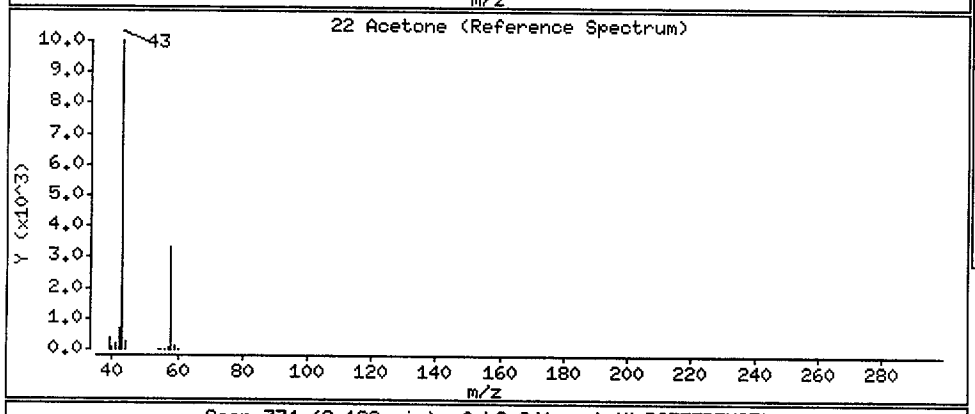
Concentration: 0.098555 ug

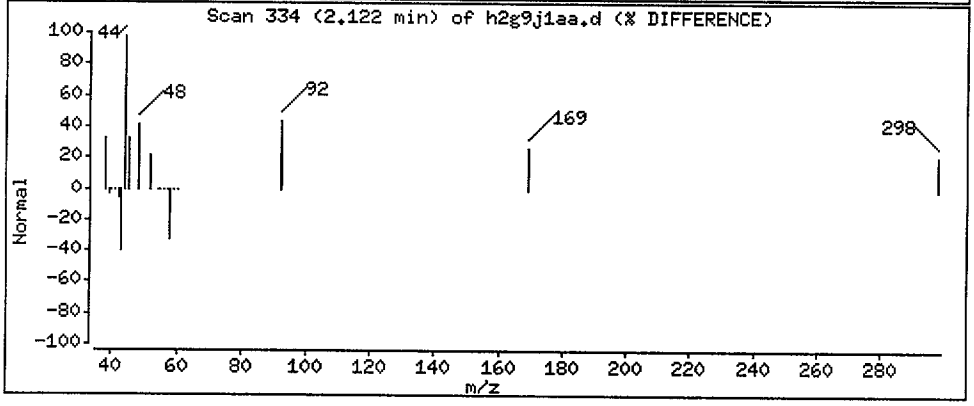












Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

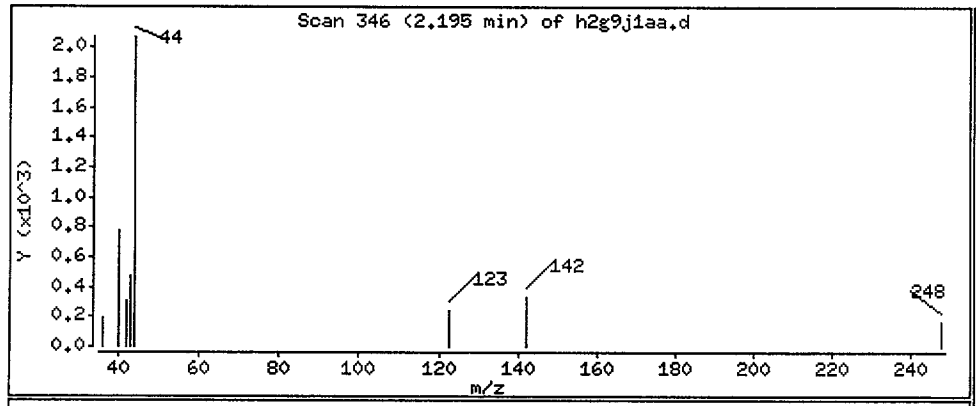
Operator: 22980

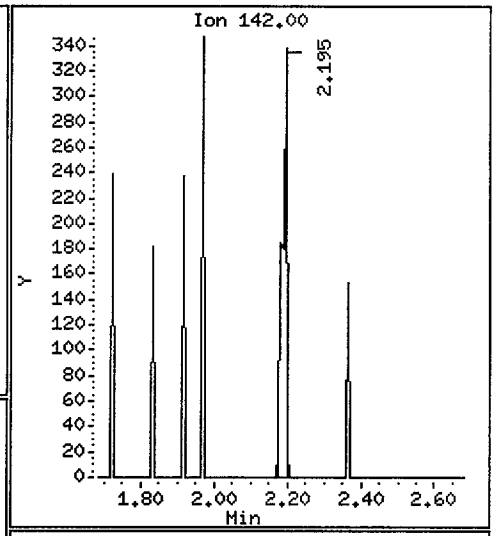
Column phase: J+W 624

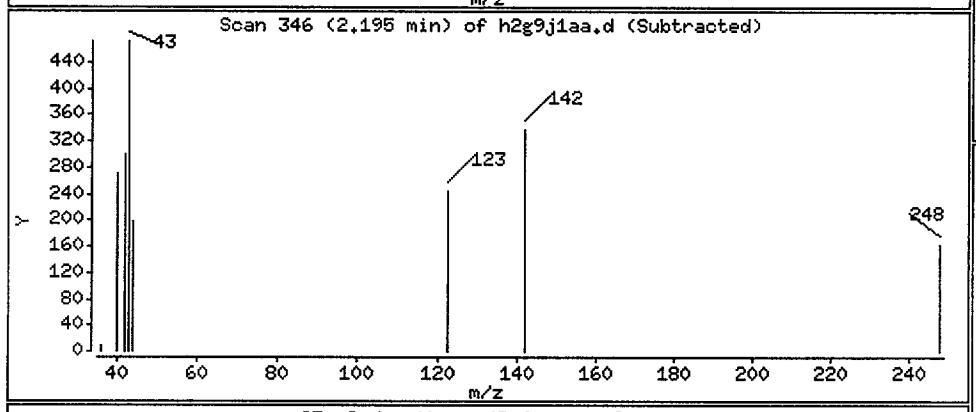
Column diameter: 0.18

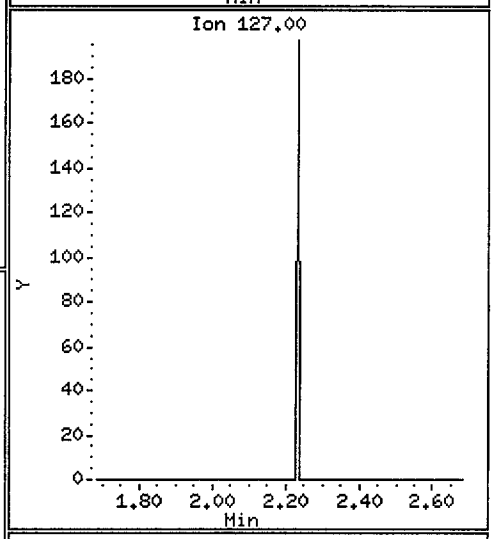
23 *Iodomethane

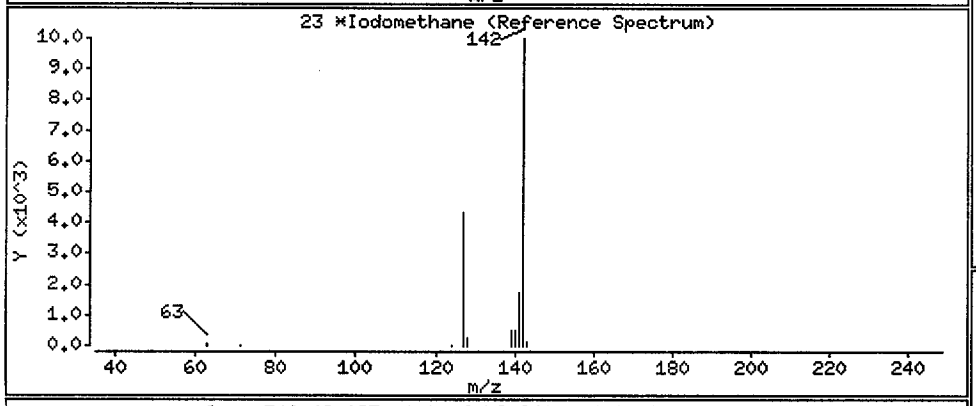
Concentration: 0.013373 ug

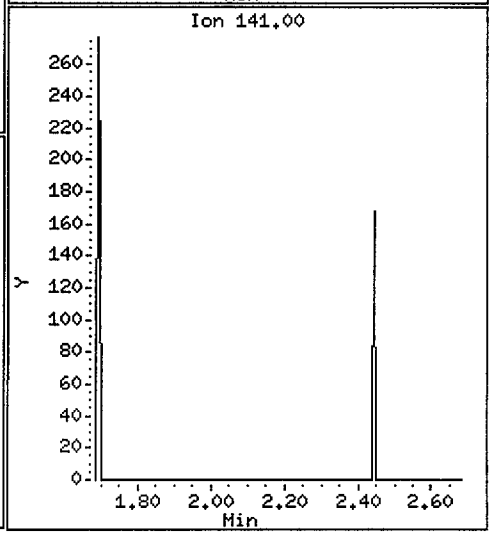


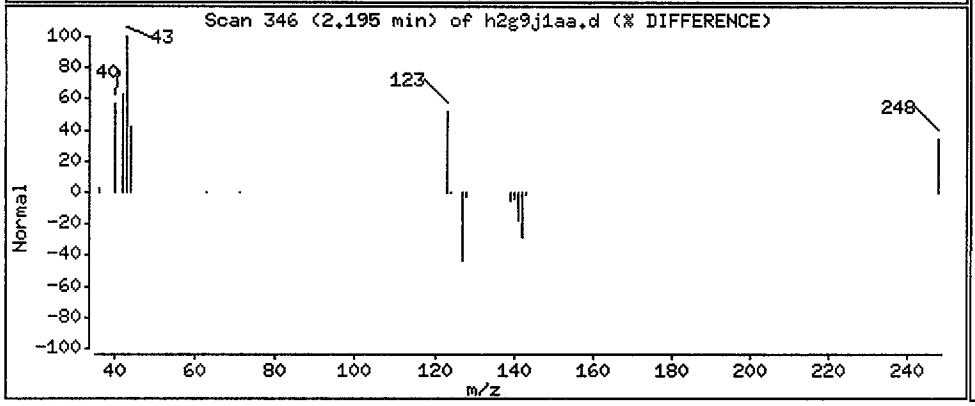












Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

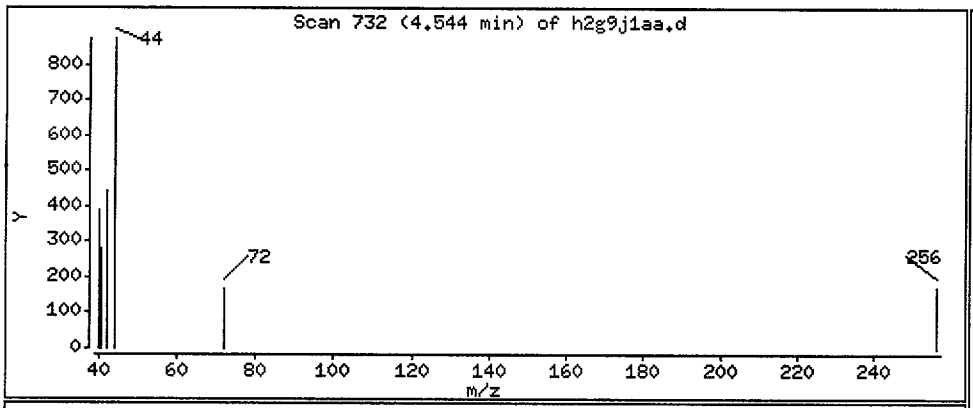
Operator: 22980

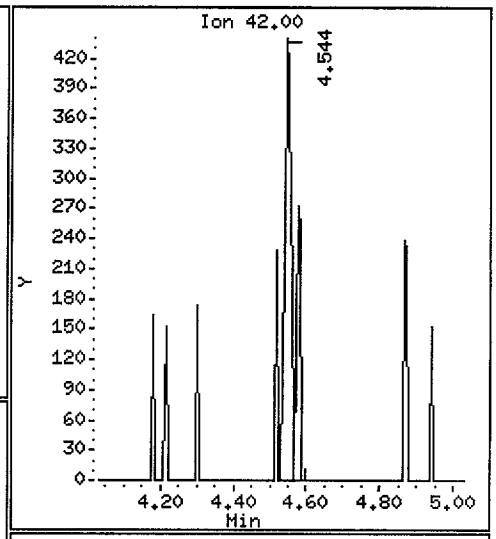
Column phase: J+W 624

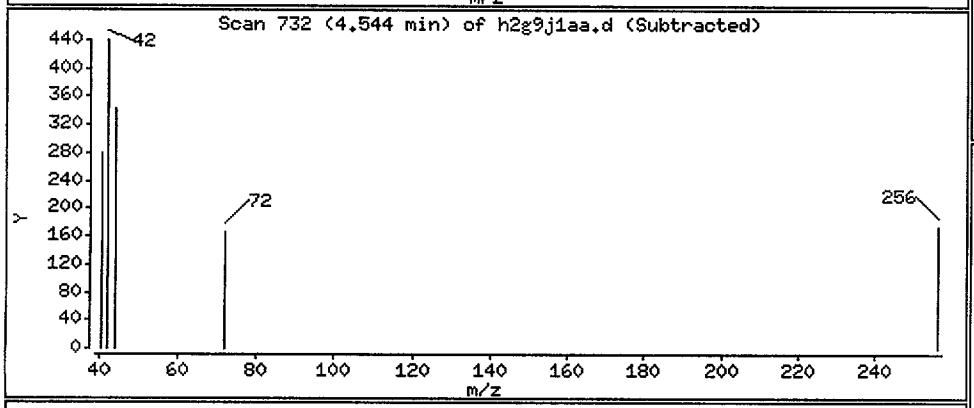
Column diameter: 0.18

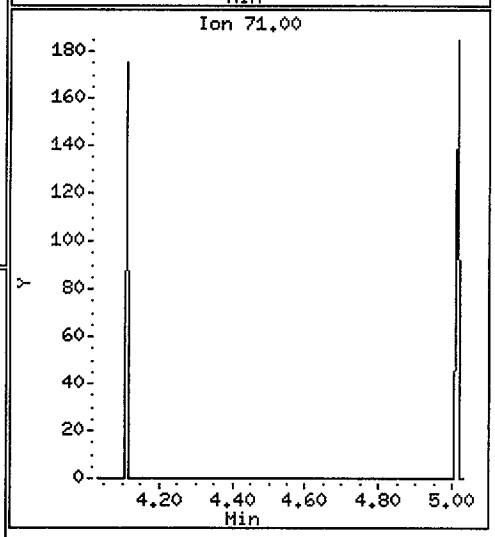
39 *THF

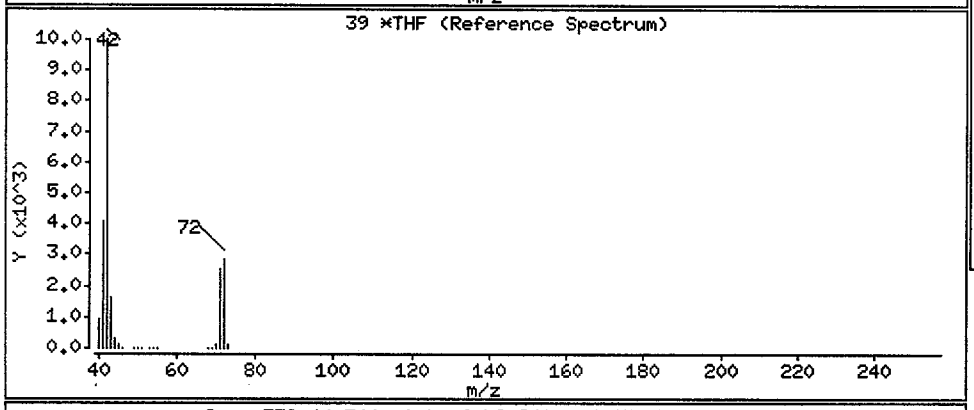
Concentration: 0.010230 ug

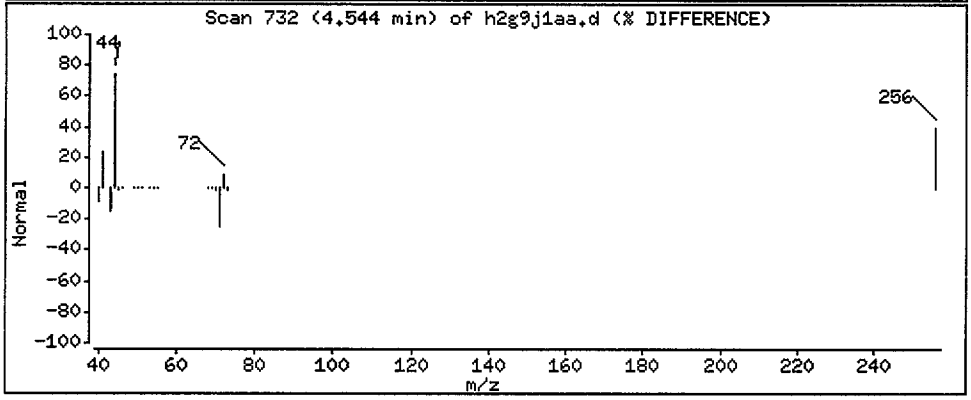












Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

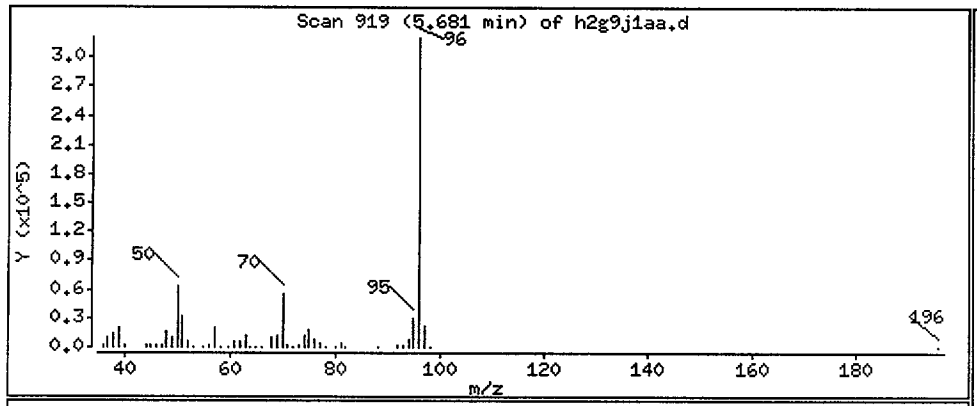
Operator: 22980

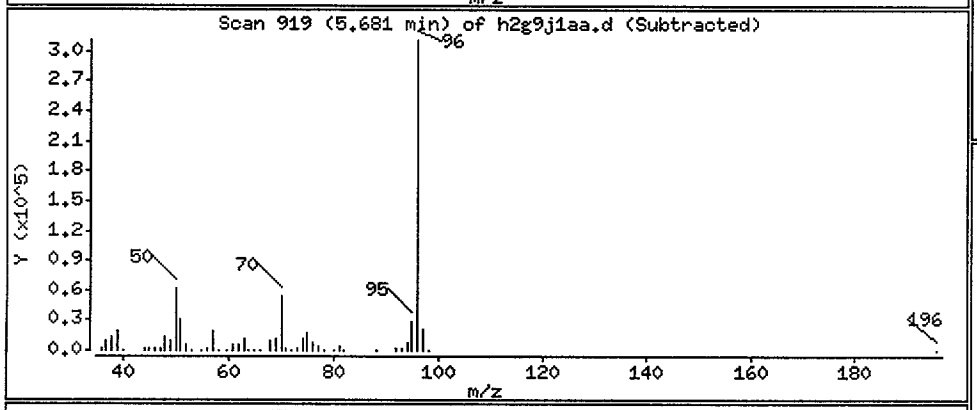
Column phase: J+W 624

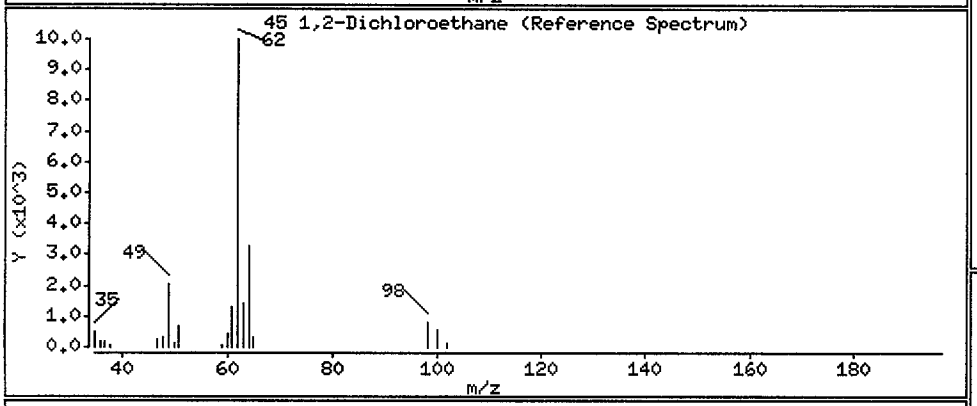
Column diameter: 0.18

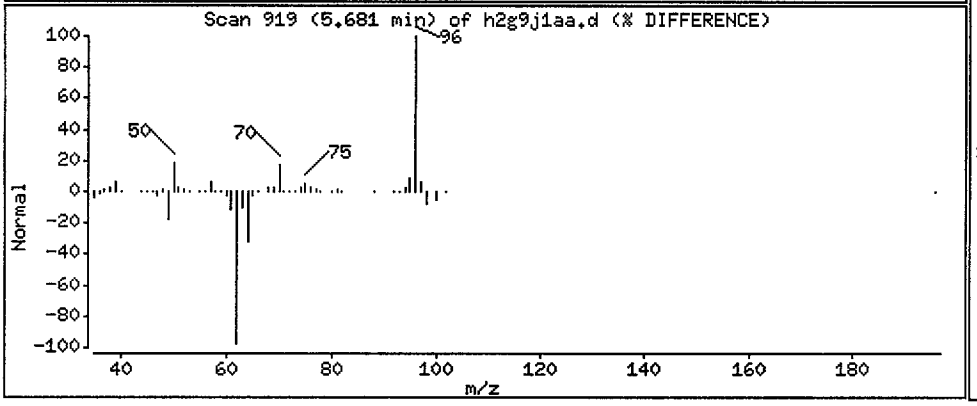
45 1,2-Dichloroethane

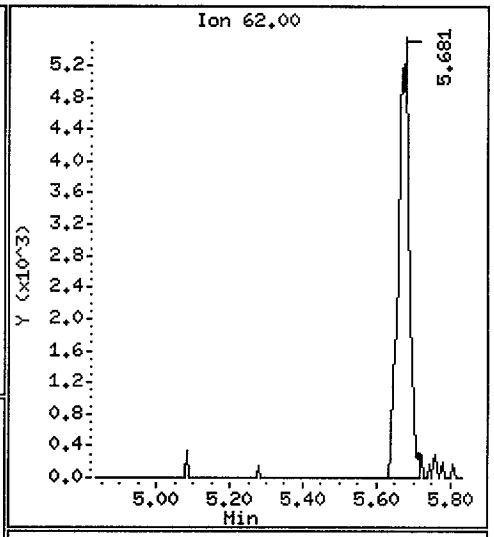
Concentration: 0.018699 ug

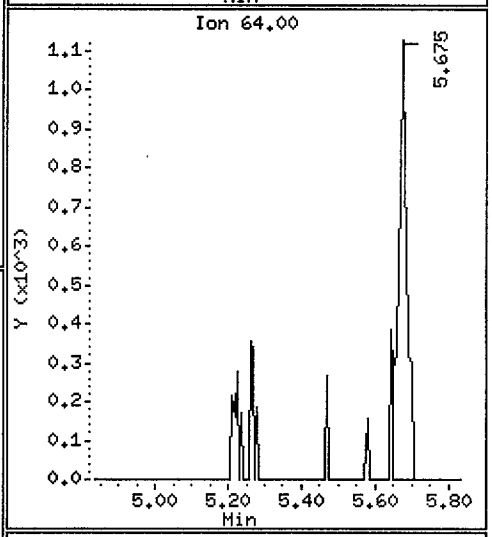


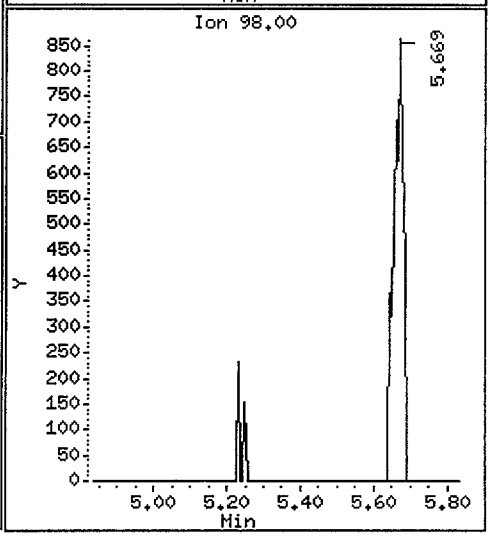












Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

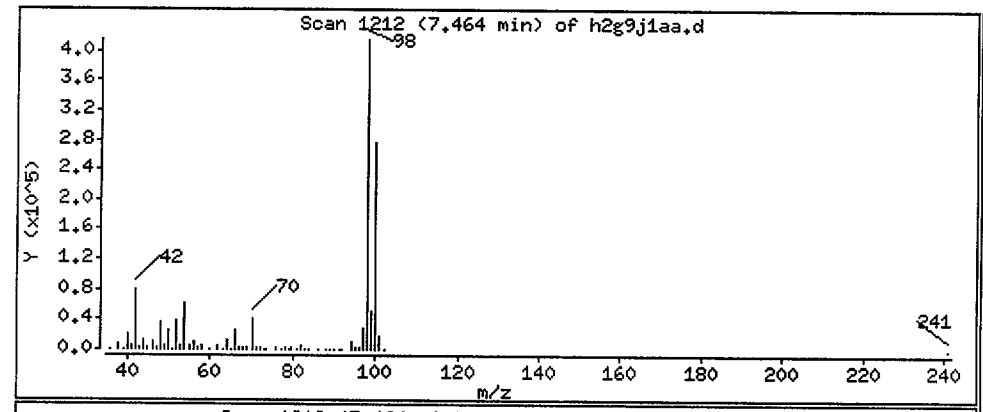
Operator: 22980

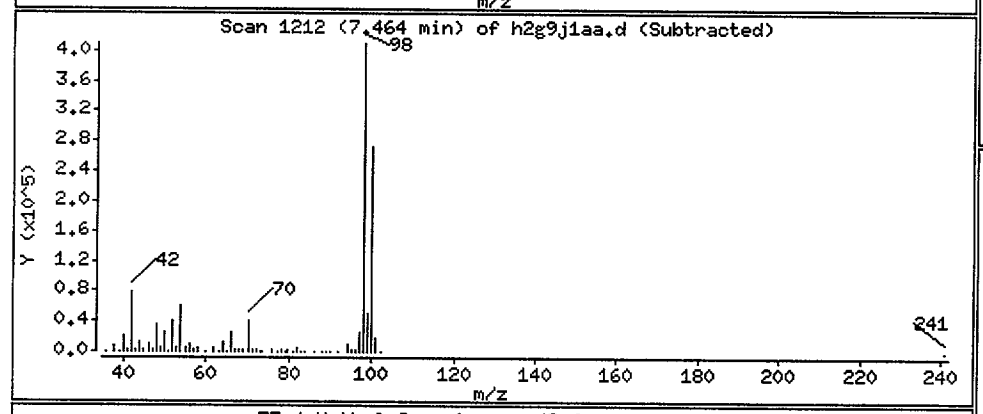
Column phase: J+W 624

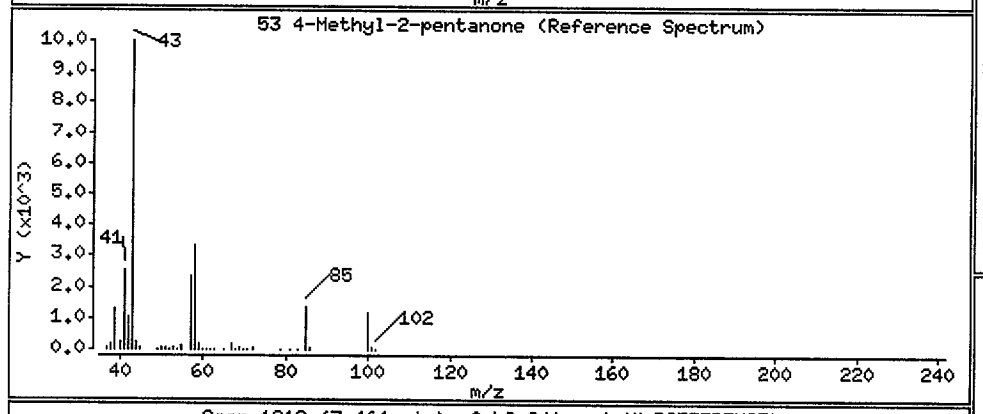
Column diameter: 0.18

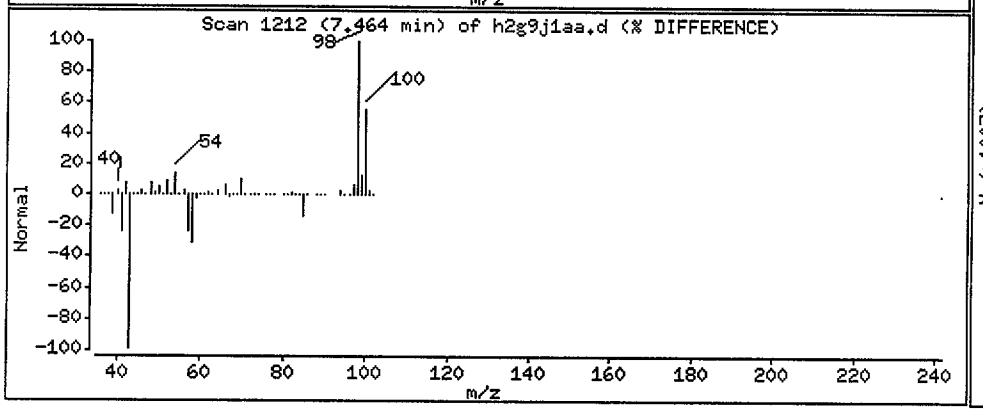
53 4-Methyl-2-pentanone

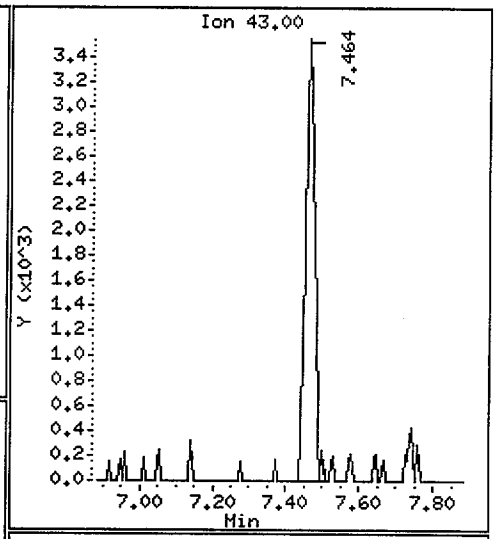
Concentration: 0.021972 ug

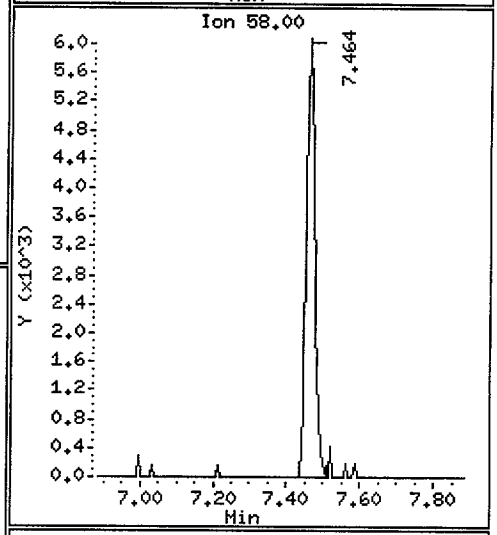


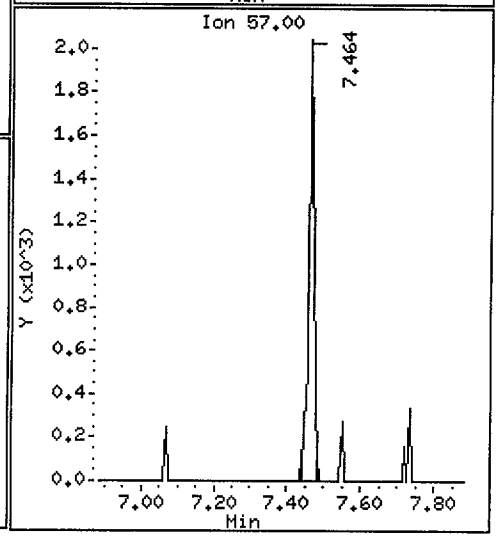












Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

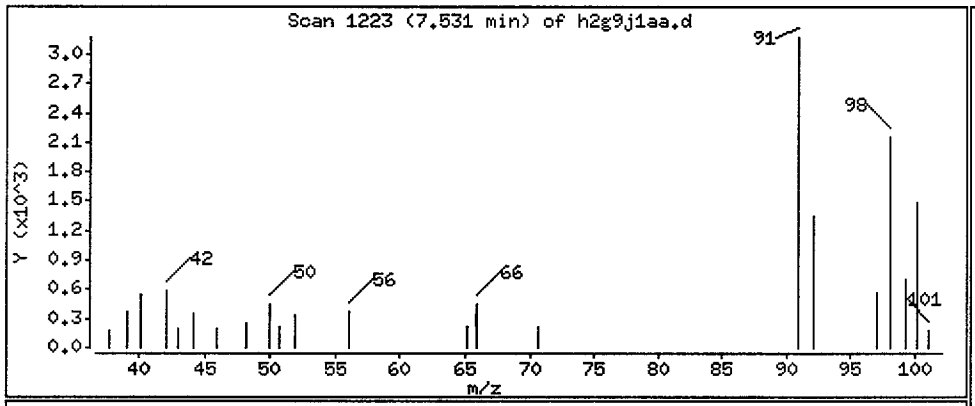
Operator: 22980

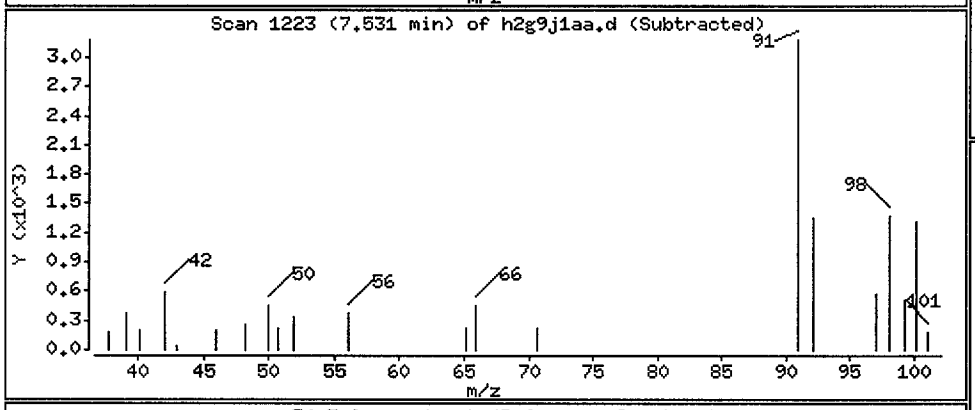
Column phase: J+W 624

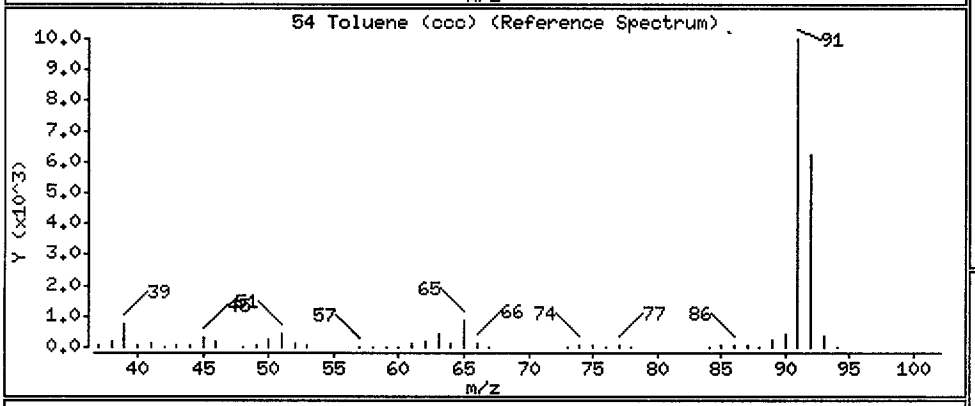
Column diameter: 0.18

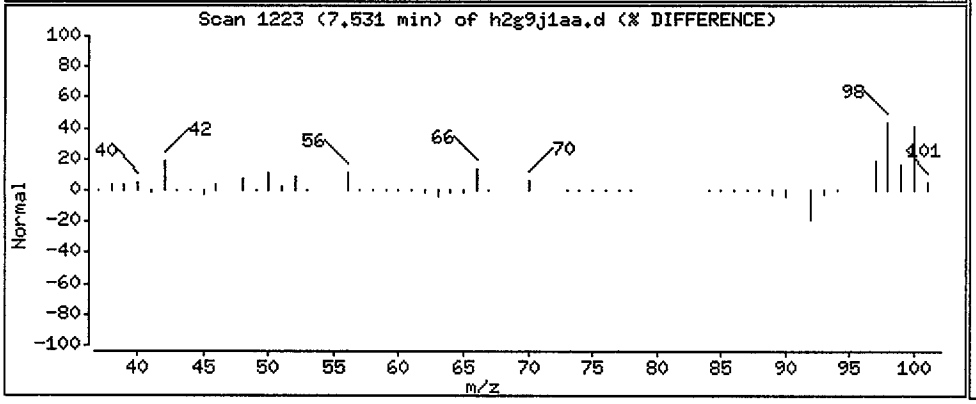
54 Toluene (ccc)

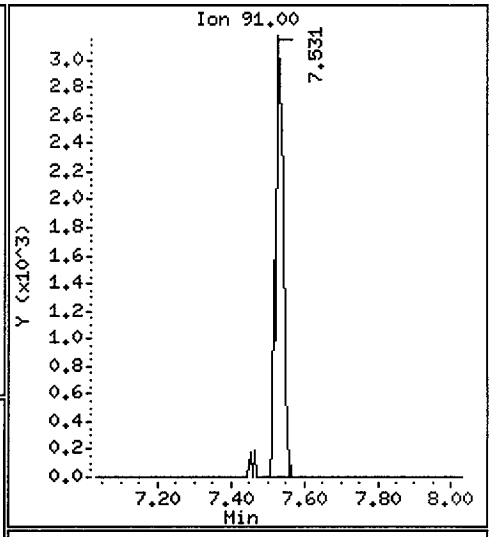
Concentration: 0.0010811 ug

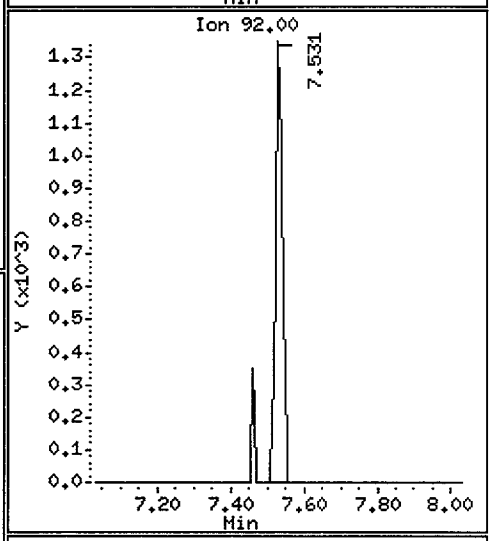


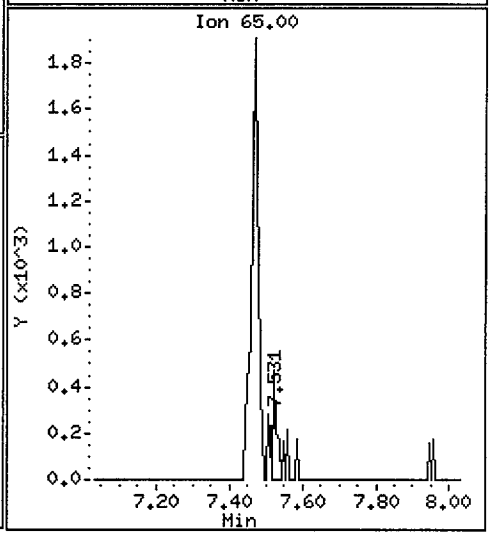












Data File: /chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

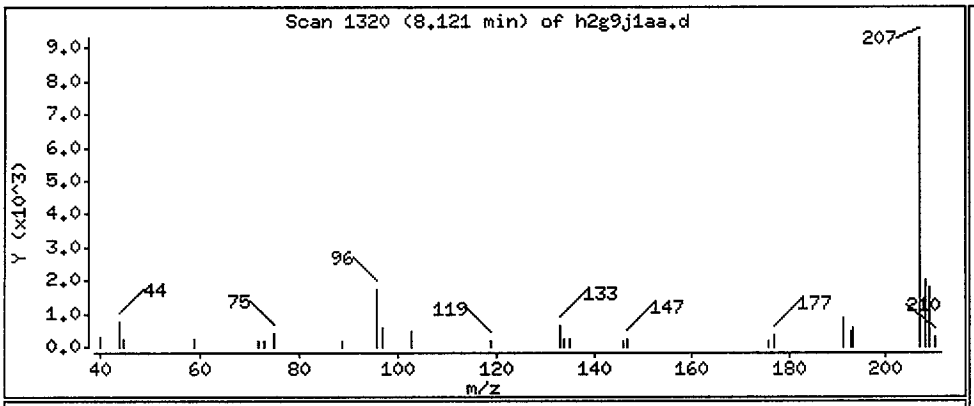
Operator: 22980

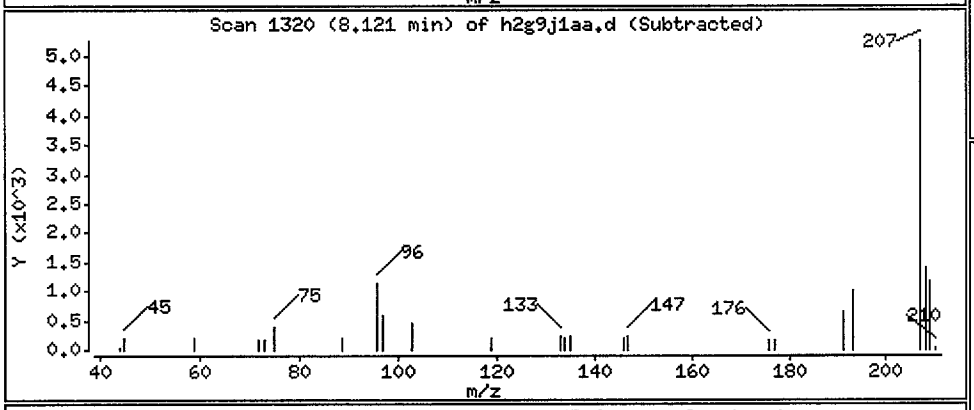
Column phase: J+W 624

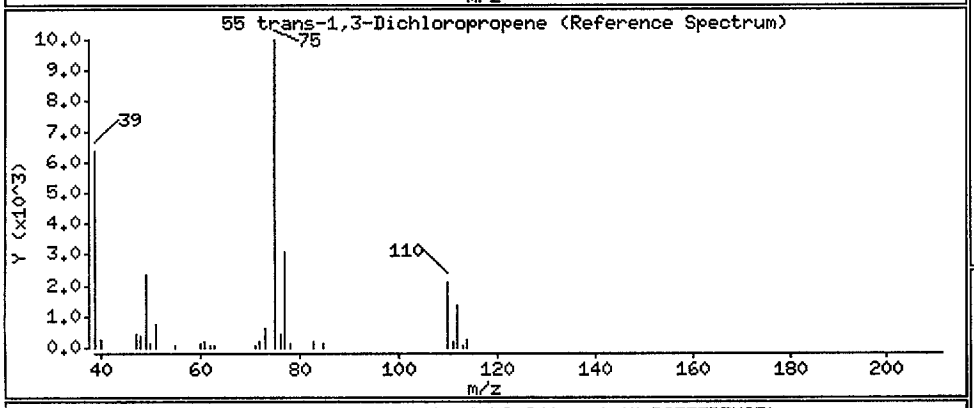
Column diameter: 0.18

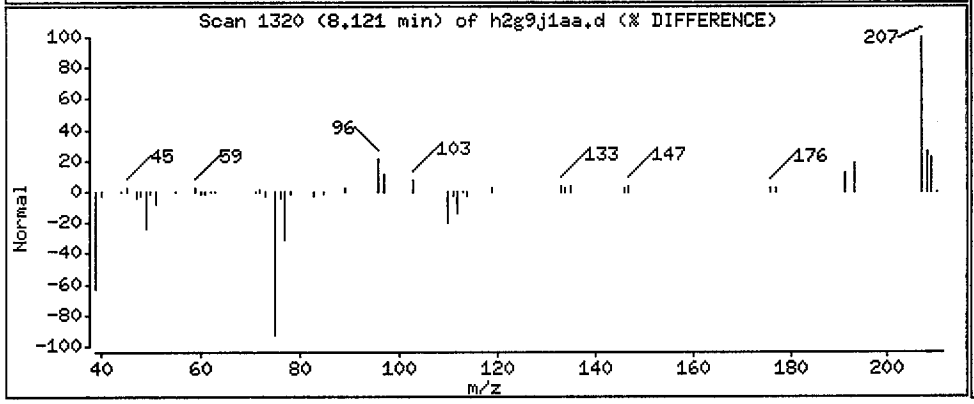
55 trans-1,3-Dichloropropene

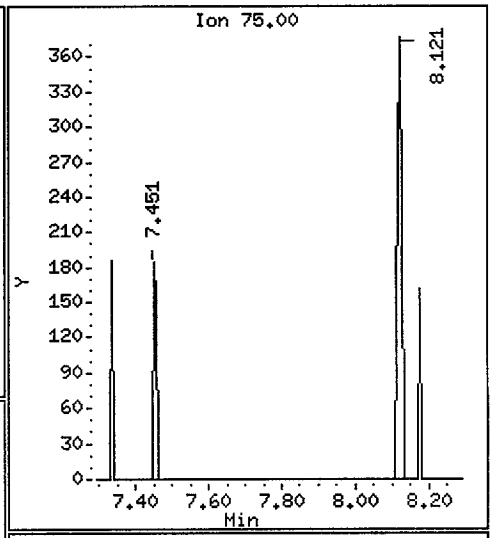
Concentration: 0.016133 ug

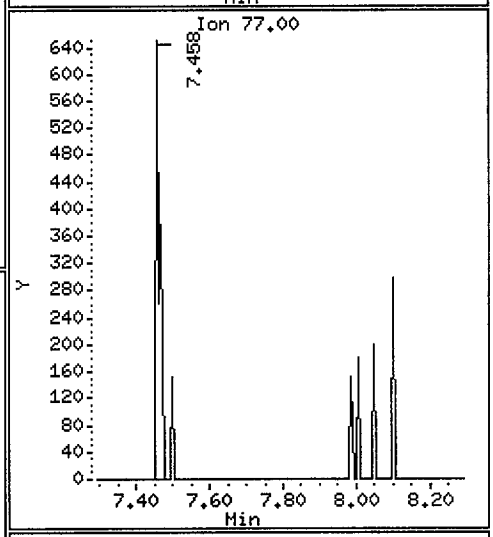


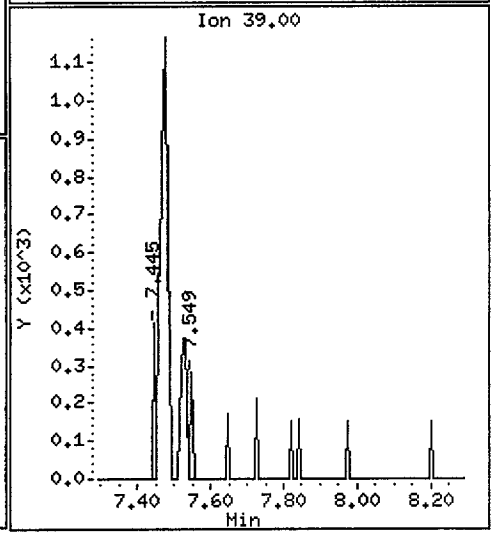












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Report Date: 14-Apr-2006 17:00

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g9j1aa.d
Lab Smp Id: H2G9J1AA Client Smp ID: G-2917-R1-VOST TENA
Inj Date : 07-APR-2006 14:21
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9J1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	863401	10.000

	CONCENTRATIONS		QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide CO2				CAS #: 124-38-9			
0.906	1133324	13.1262762	0.32816	5	NIST05.1	80	1

TW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9j1aa.d

Date : 07-APR-2006 14:21

Client ID: G-2917-R1-VOST TENA

Instrument: mz.i

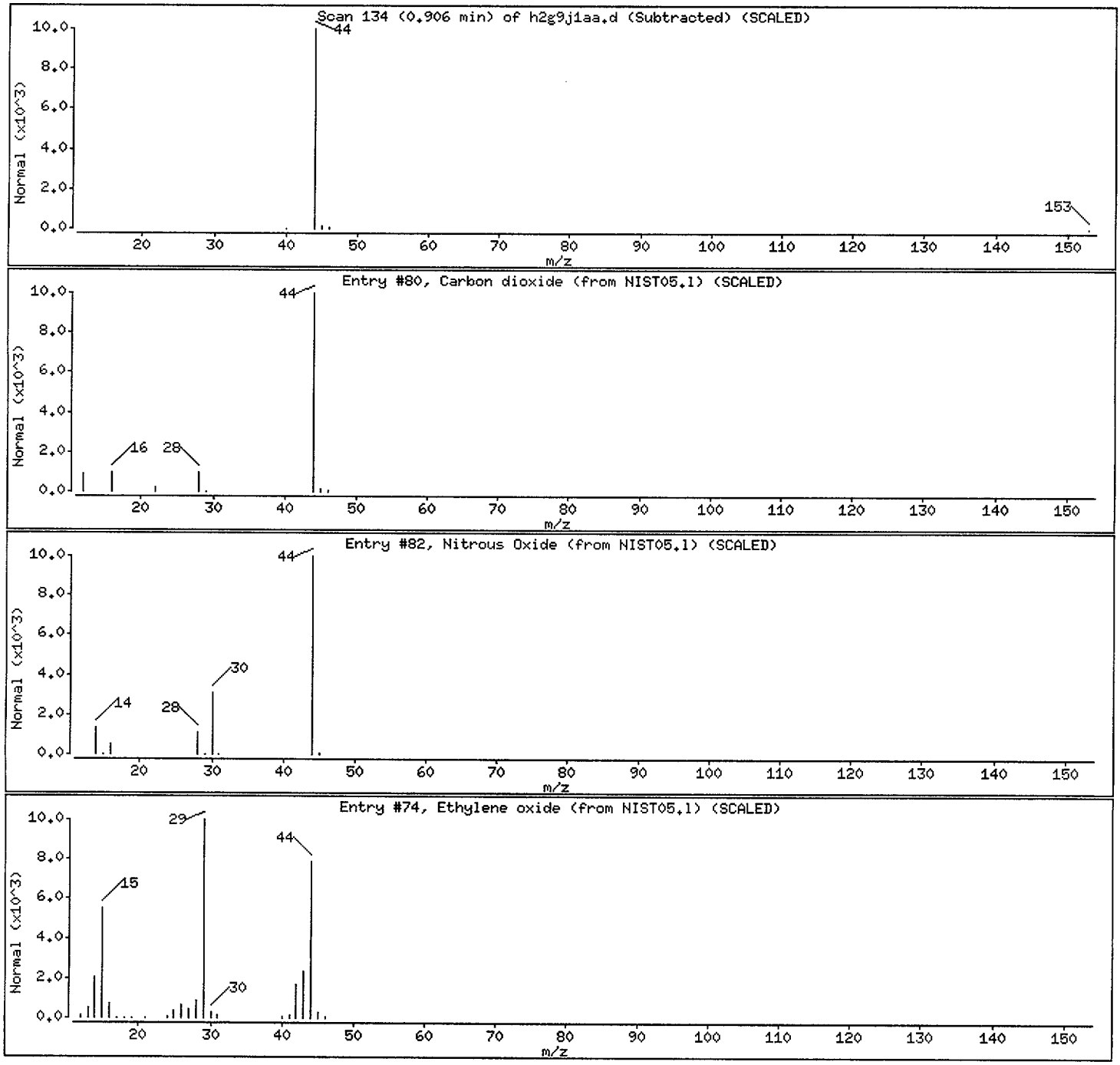
Sample Info: H2G9J1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-011 **Work Order #...:** H2G9L1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.0053 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-011 **Work Order #...:** H2G9L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	118	(50 - 134)
1,2-Dichloroethane-d4	112	(50 - 134)
Toluene-d8	104	(57 - 127)
Bromofluorobenzene	93	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-011 **Work Order #:** H2G9L1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Report Date: 07-Apr-2006 14:14

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Lab Smp Id: H2G9L1AA Client Smp ID: G-2918-R1-VOST TENA
Inj Date : 07-APR-2006 13:57
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9L1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/07/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	777759	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	167909	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	227601	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.851)	146856	11.7838	0.29460
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	120593	11.1899	0.27975
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	769089	10.4246	0.26061
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	214155	9.32988	0.23325
11 Chloromethane (spcc)	50	1.119	1.126	(0.197)	34267	0.21091	0.0052729
15 Bromomethane	94	1.417	1.418	(0.250)	1318	0.99317	0.024829
22 Acetone	43	2.129	2.123	(0.375)	2327	3.74440	0.093610 - see reprint for (mw)
23 *Iodomethane	142	2.189	2.184	(0.386)	463	0.54506	0.013626
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	12390	0.76290	~~0.019072~~
53 4-Methyl-2-pentanone	43	7.458	7.386	(1.314)	6360	0.93647	~~0.023412~~
55 trans-1,3-Dichloropropene	75	7.470	7.793	(0.836)	533	0.66019	~~0.016505~~
69 Bromoform (spcc)	173	10.128	9.782	(1.133)	742	1.07799	~~0.026950~~

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Report Date: 14-Apr-2006 16:35

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Lab Smp Id: H2G9L1AA Client Smp ID: G-2918-R1-VOST TENA
Inj Date : 07-APR-2006 13:57
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9L1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	777759	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	167909	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	227601	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.851)	146856	11.7838	0.29460
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	120593	11.1899	0.27975
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	769089	10.4246	0.26062
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	214155	9.32989	0.23325
11 Chloromethane (spcc)	50	1.119	1.126	(0.197)	34267	0.21091	0.0052727
15 Bromomethane	94	1.417	1.418	(0.250)	1318	0.99313	0.024828
22 Acetone	43	2.129	2.123	(0.375)	3740	4.05870	0.10147(M)
23 *Iodomethane	142	2.189	2.184	(0.386)	463	0.54505	0.013626

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Report Date: 07-Apr-2006 14:14

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g9l1aa.d
Lab Smp Id: H2G9L1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-2918-R1-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	777759	-18.35
2 Chlorobenzene-d5	164101	82050	328202	167909	2.32
3 1,4 Dichlorobenze	204390	102195	408780	227601	11.36

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.68	-0.01
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Report Date: 07-Apr-2006 14:14

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2G9L1AA
Client Smp ID: G-2918-R1-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.29460	117.84	50-150
$ 5 1,2-Dichloroethane	0.25000	0.27975	111.90	50-150
$ 6 Toluene-d8	0.25000	0.26061	104.25	50-150
$ 7 4-Bromofluorobenze	0.25000	0.23325	93.30	50-150

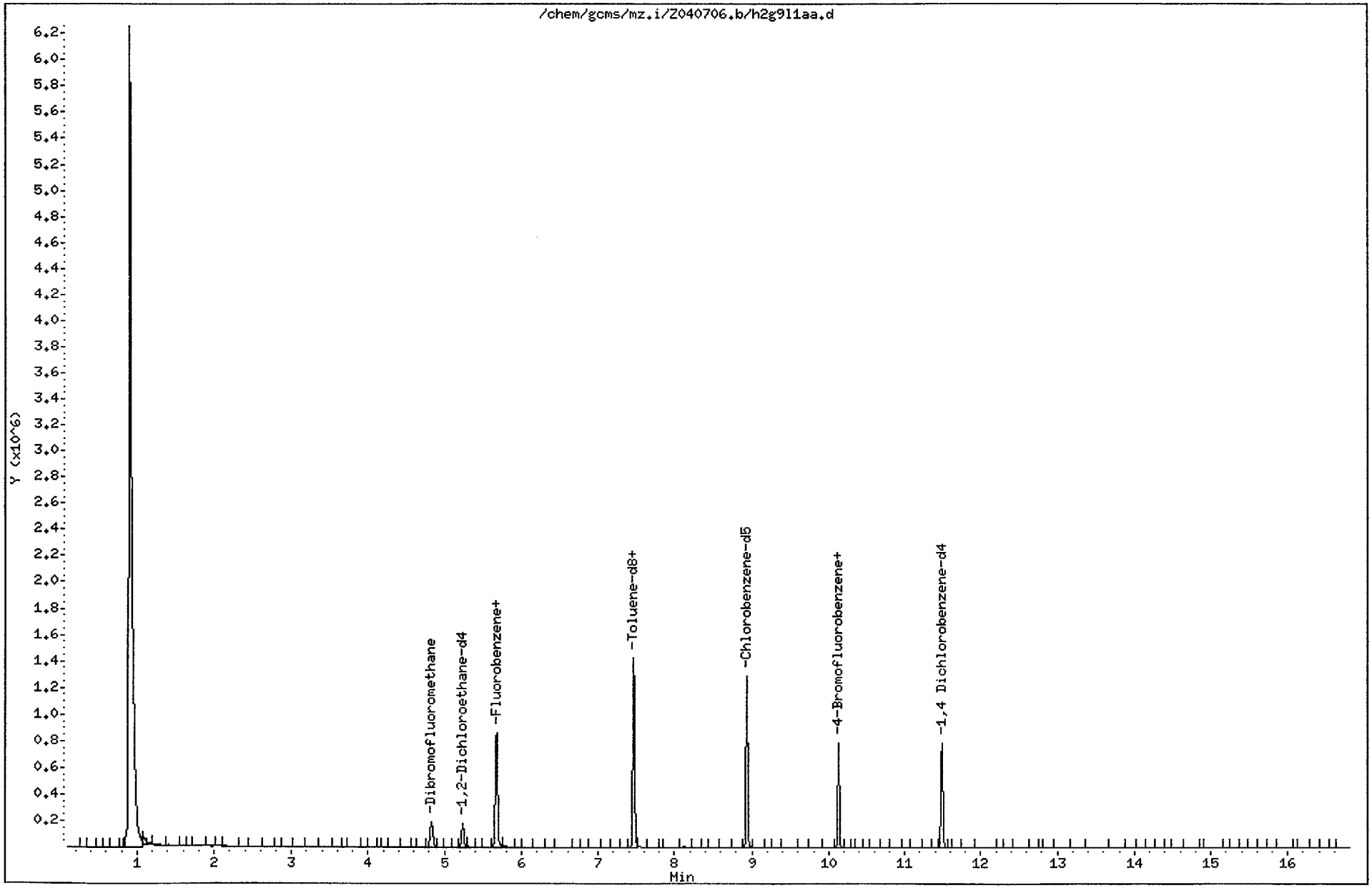
Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d
Date : 07-APR-2006 13:57
Client ID: G-2918-R1-VOST TENA
Sample Info: H2G9L1AA,1,0,,

Instrument: mz.i

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

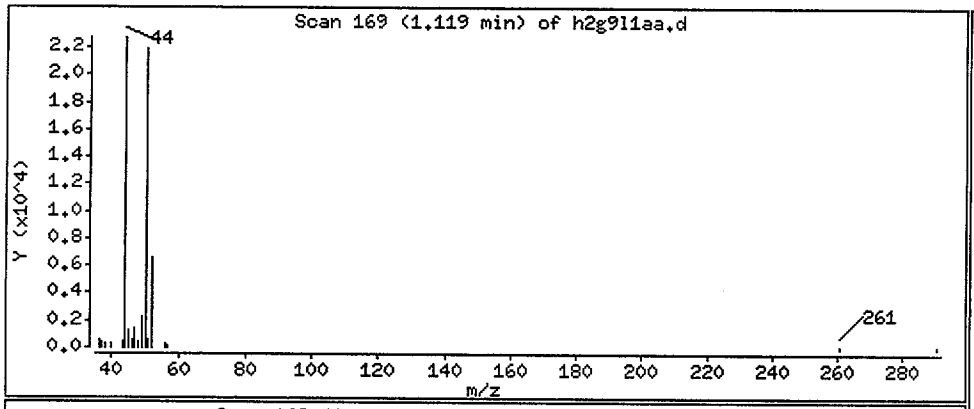
Operator: 22980

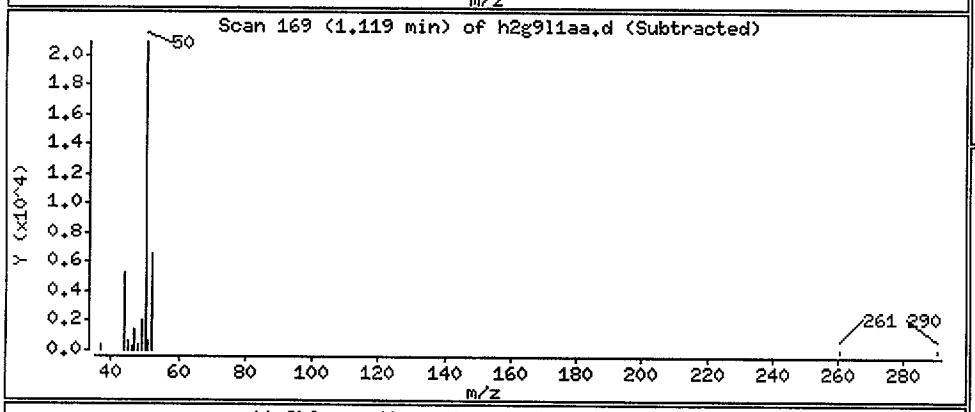
Column phase: J+W 624

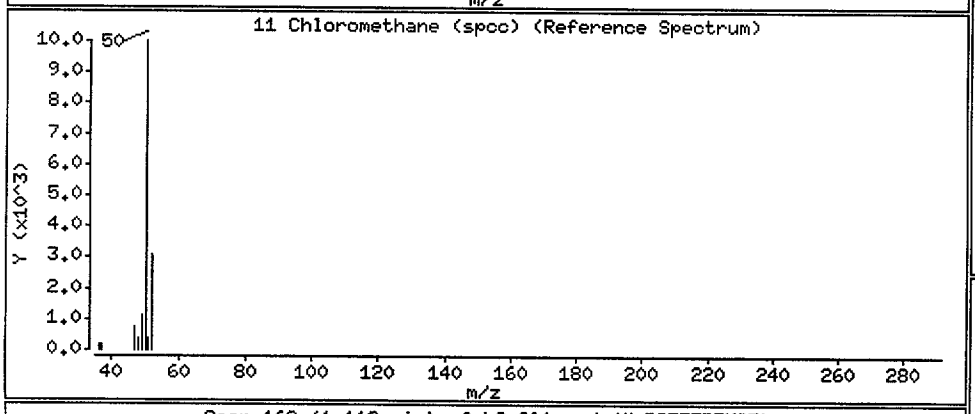
Column diameter: 0.18

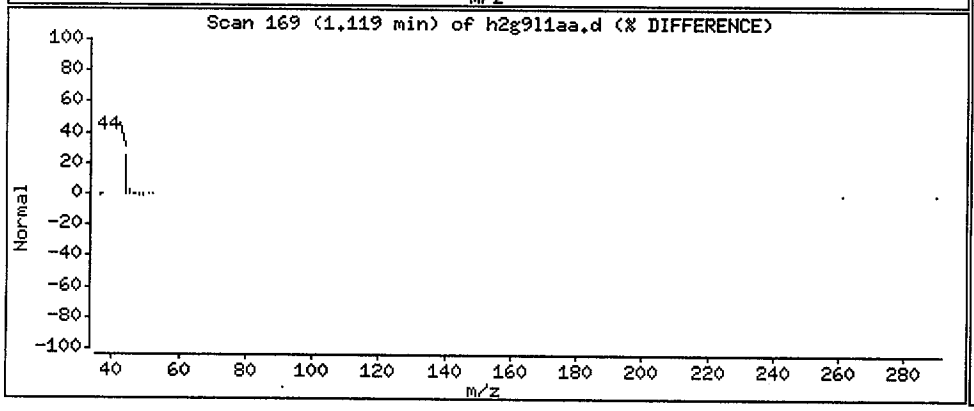
11 Chloromethane (spcc)

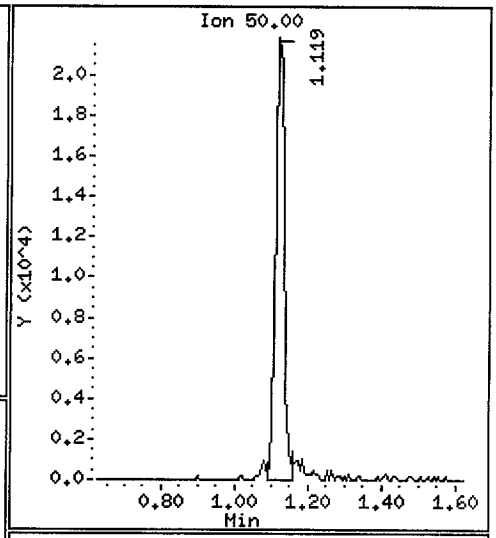
Concentration: 0.0052729 ug

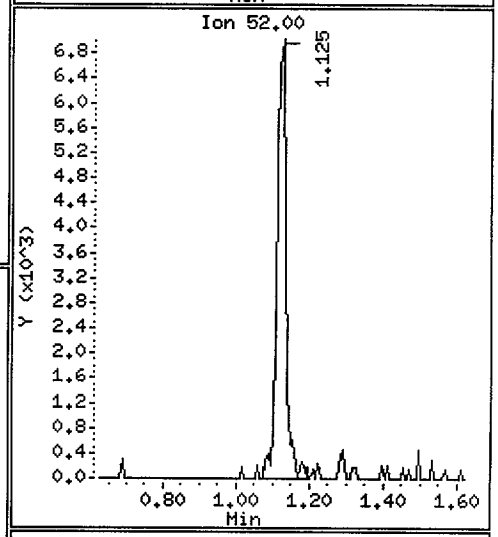


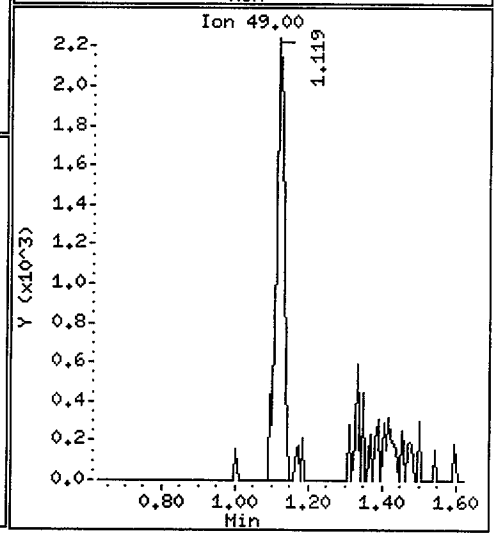












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

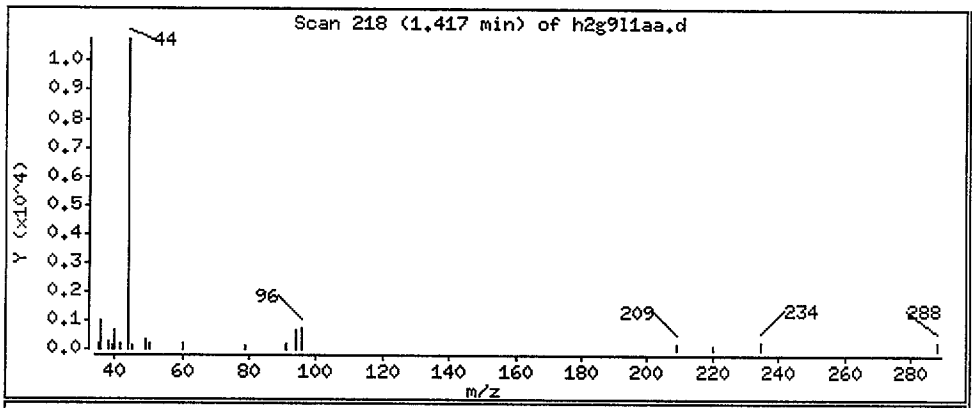
Operator: 22980

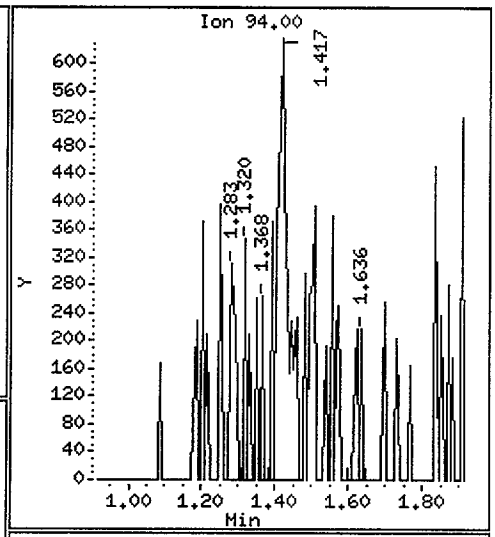
Column phase: J+W 624

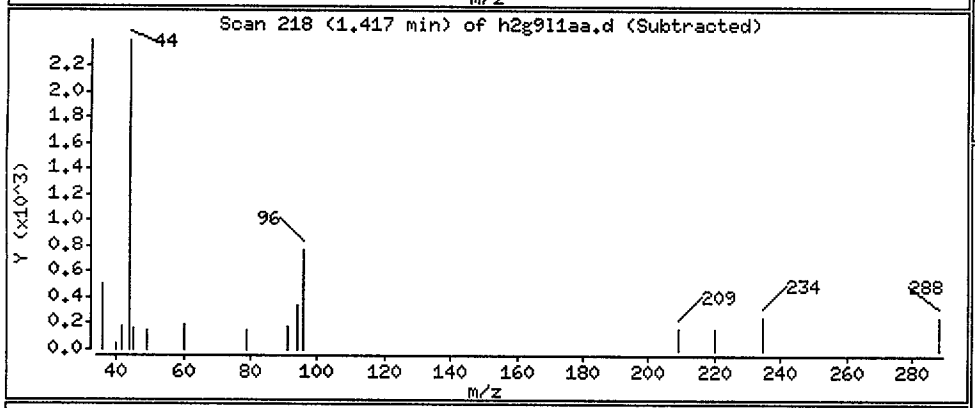
Column diameter: 0.18

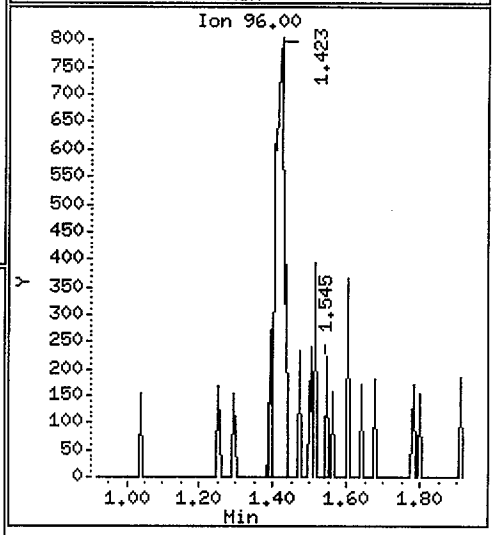
15 Bromomethane

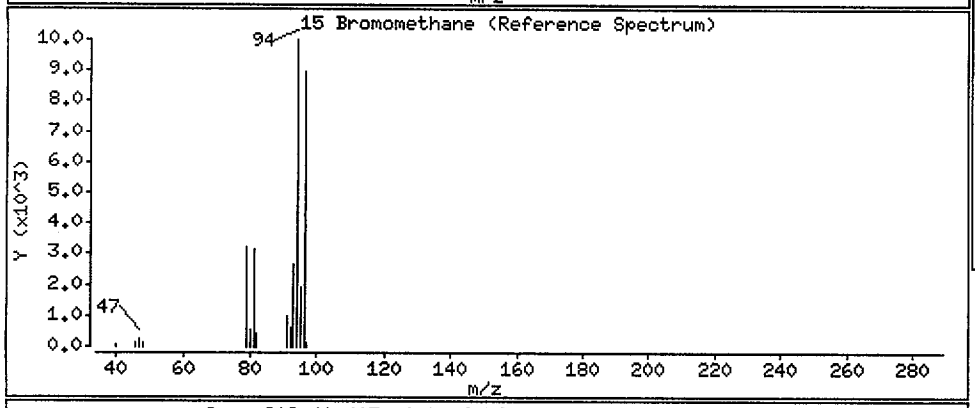
Concentration: 0.024829 ug

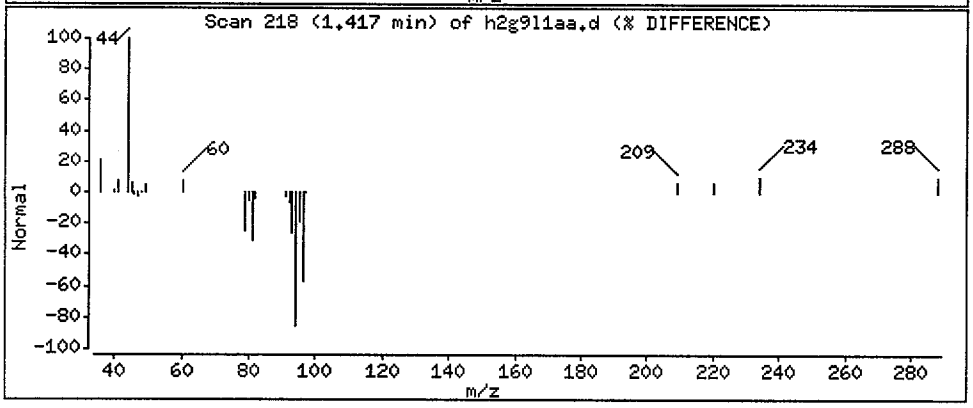












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

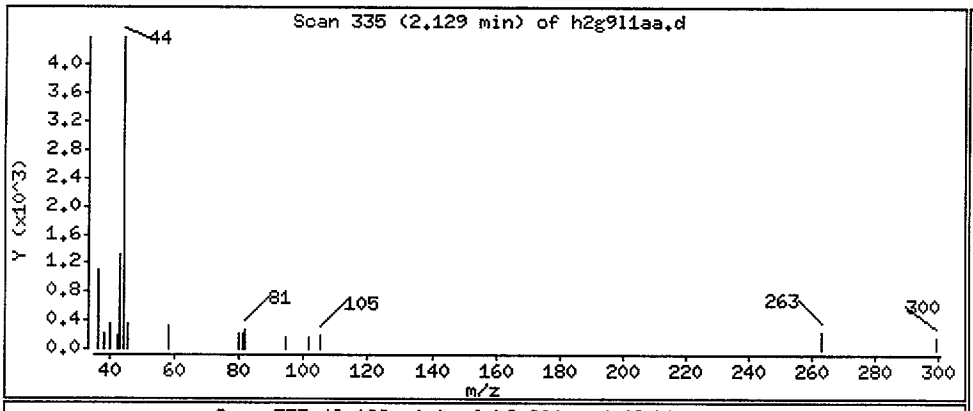
Operator: 22980

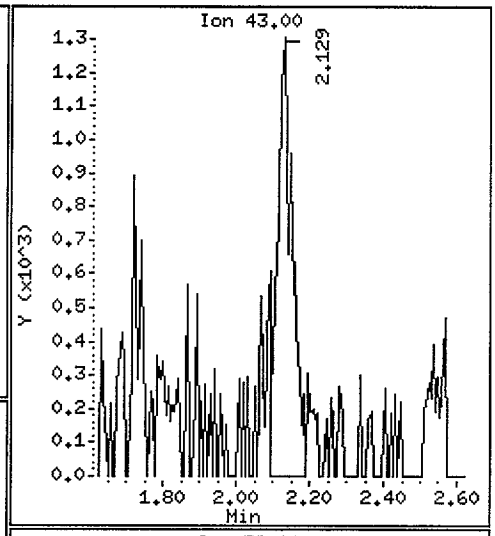
Column phase: J+W 624

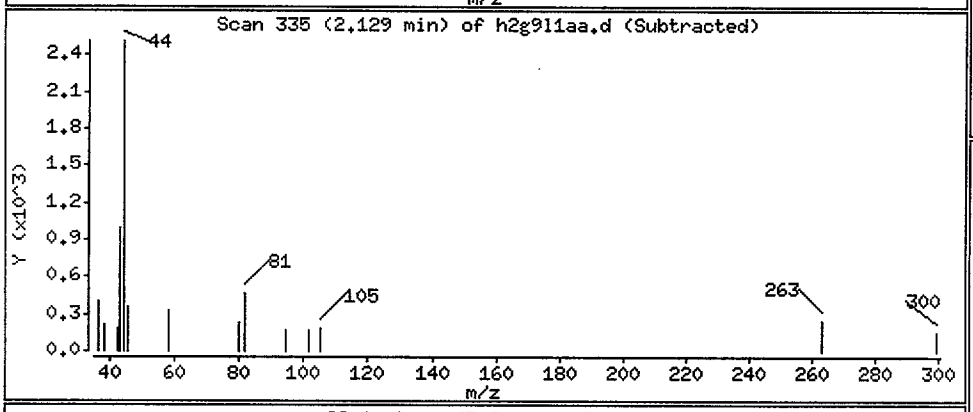
Column diameter: 0.18

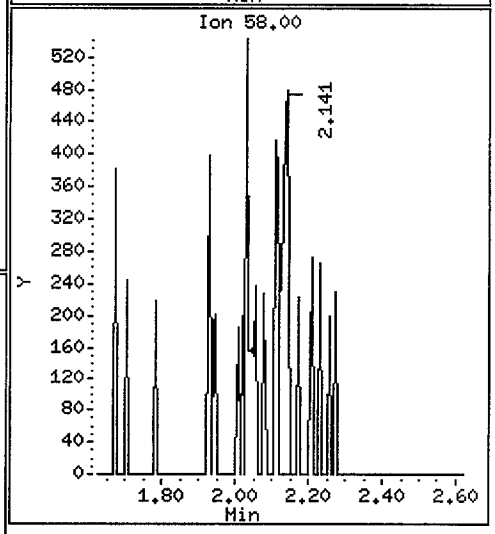
22 Acetone

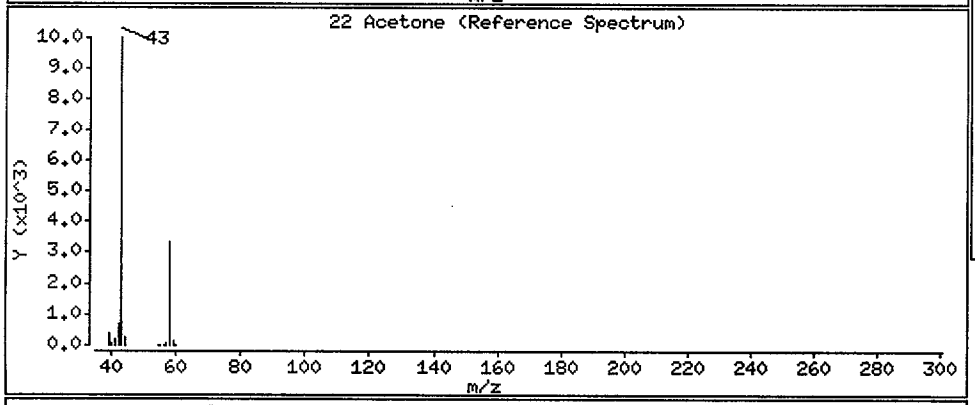
Concentration: 0.10147 ug

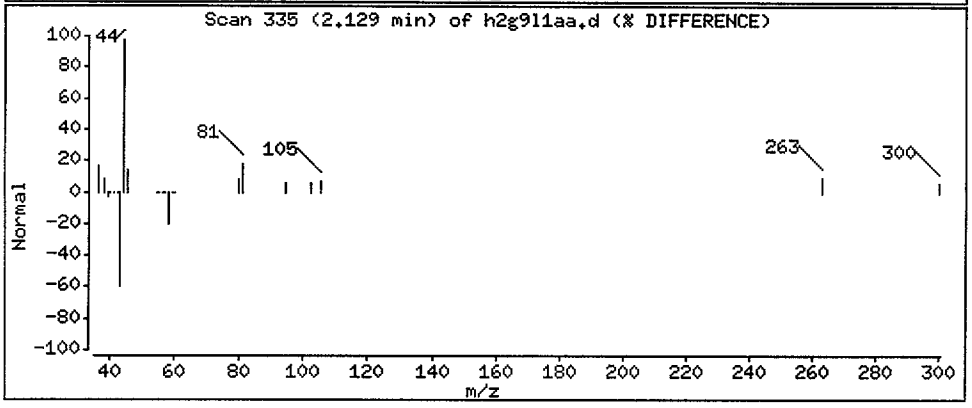












Data File: /chem/gcms/mz.i/Z040706.b/h2g9l1aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

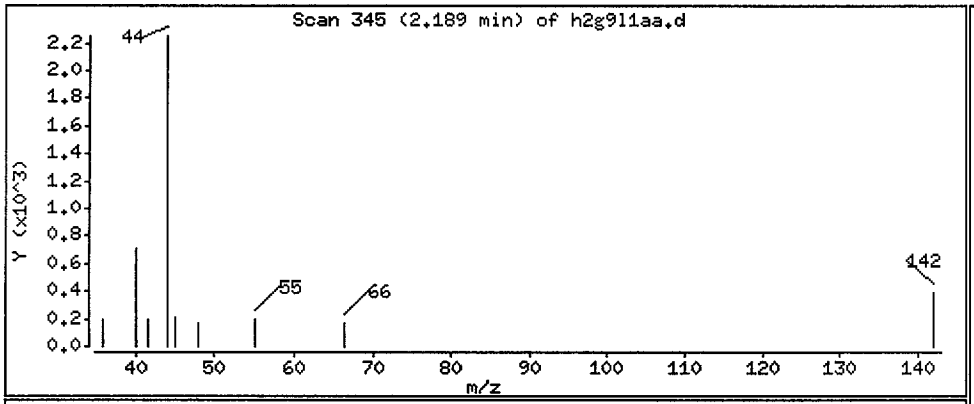
Operator: 22980

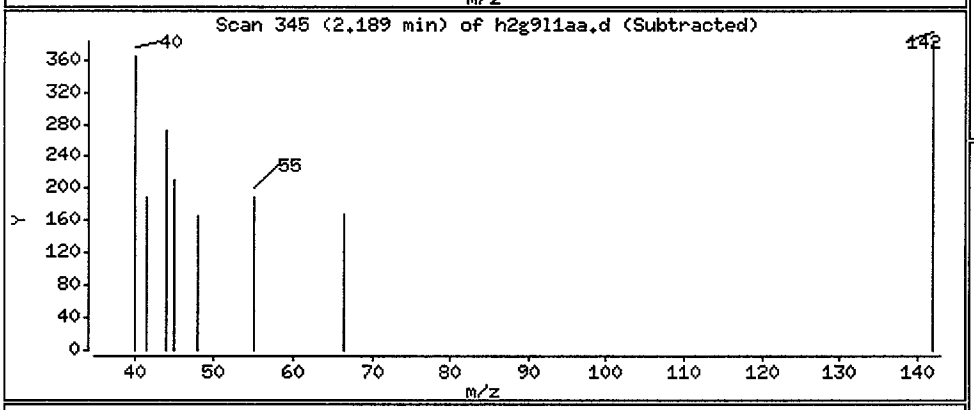
Column phase: J+W 624

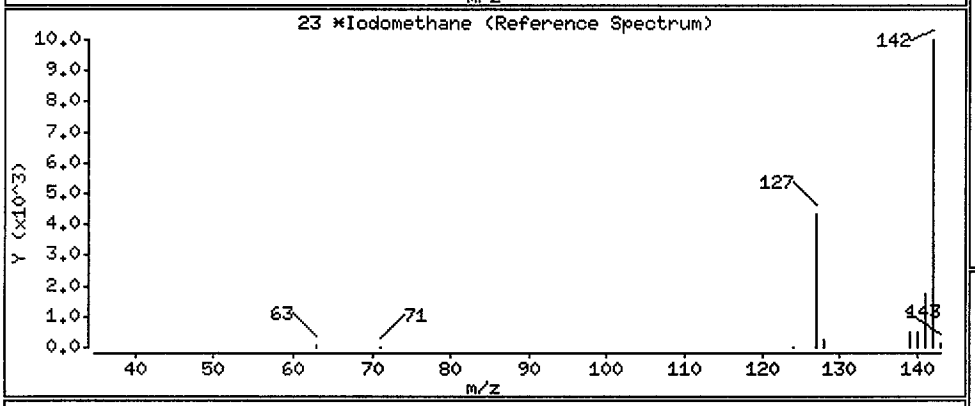
Column diameter: 0.18

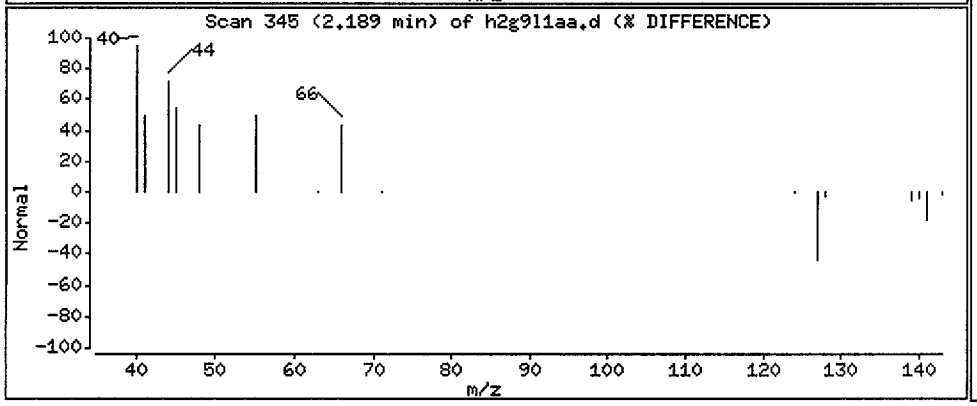
23 *Iodomethane

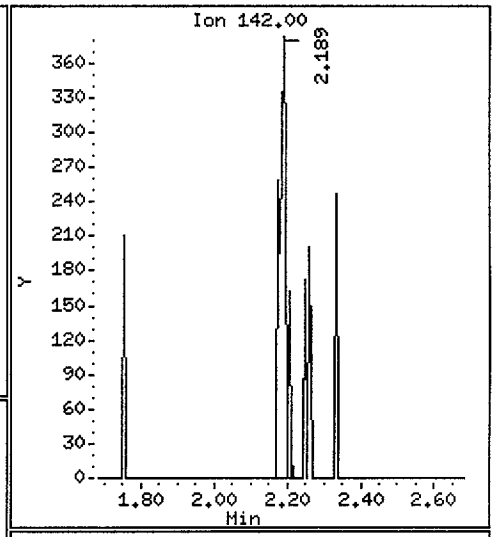
Concentration: 0.013626 ug

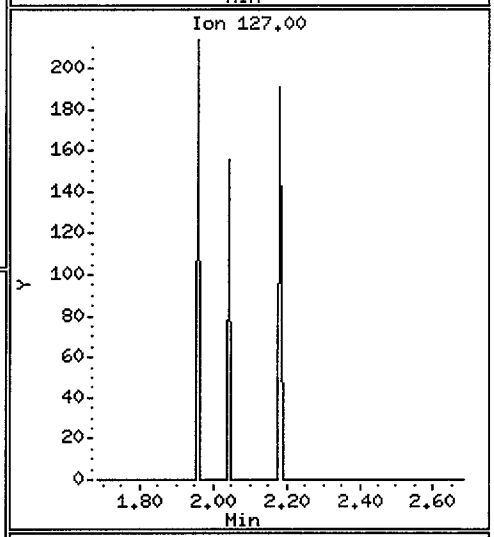


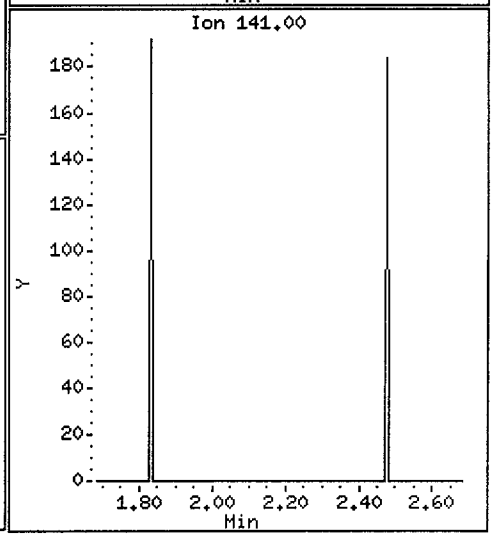












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

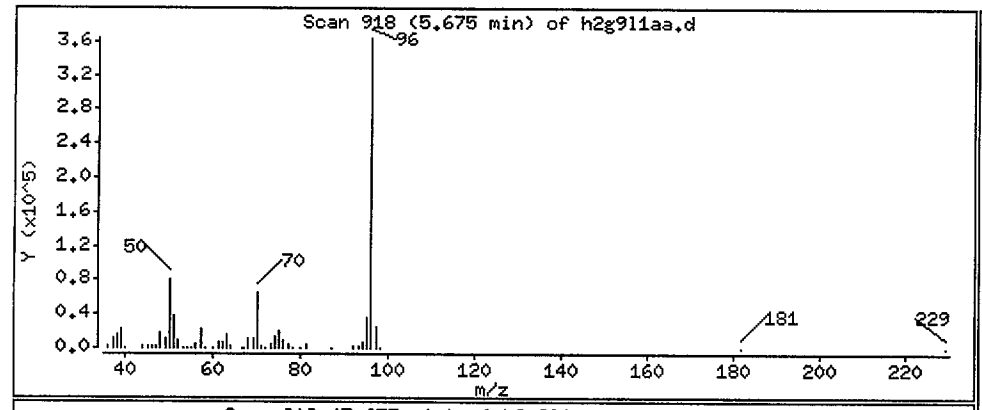
Operator: 22980

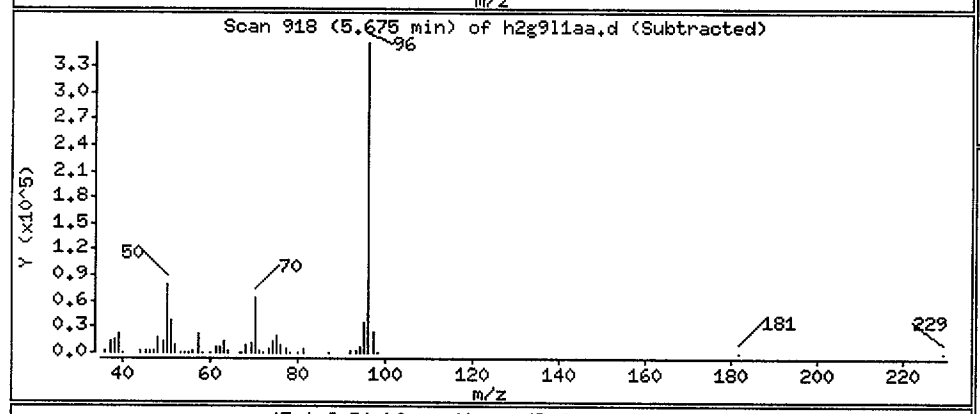
Column phase: J+W 624

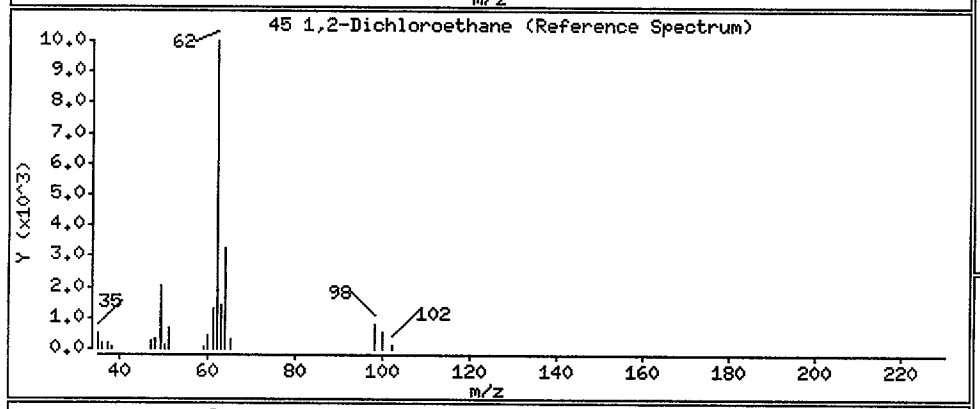
Column diameter: 0.18

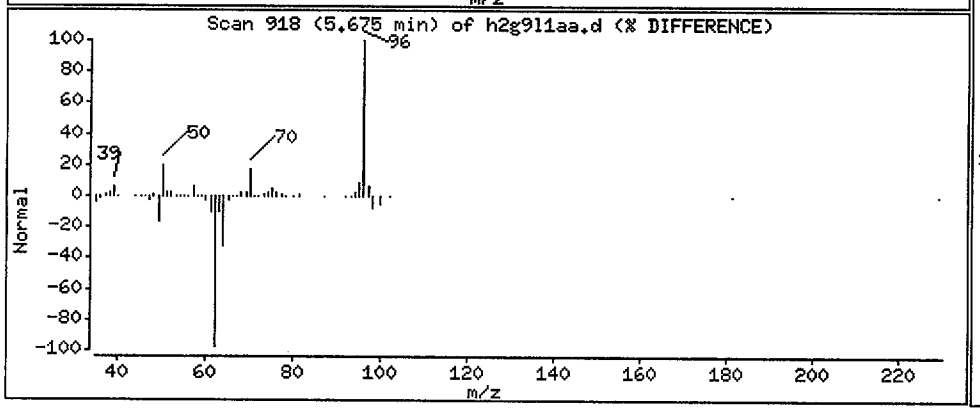
45 1,2-Dichloroethane

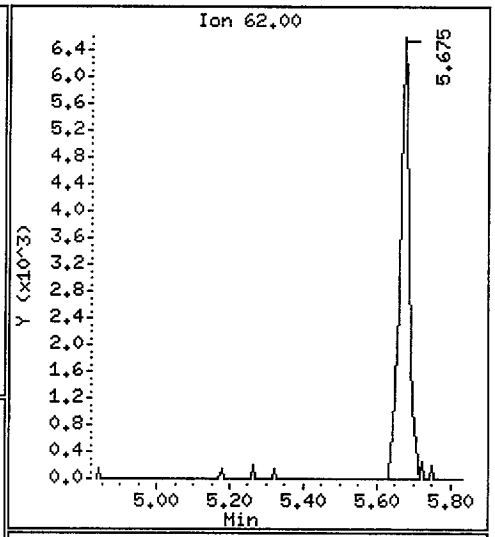
Concentration: 0.019072 ug

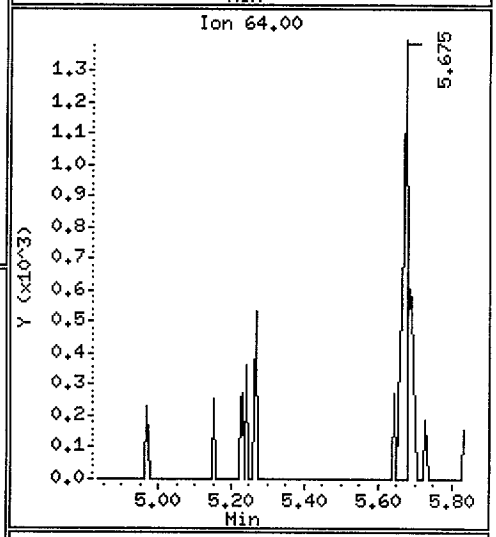


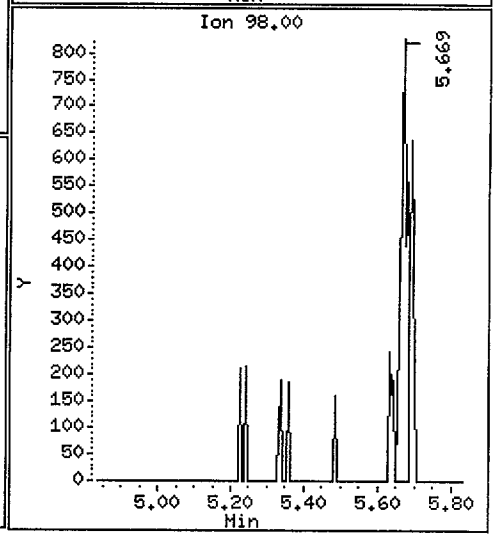












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

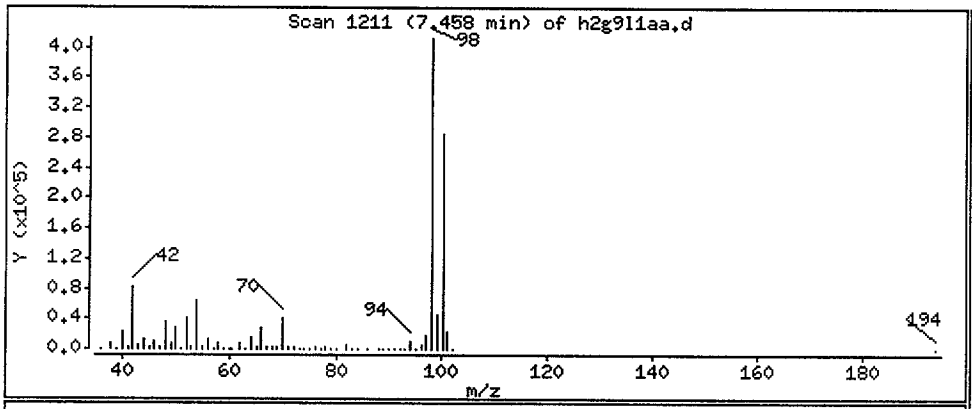
Operator: 22980

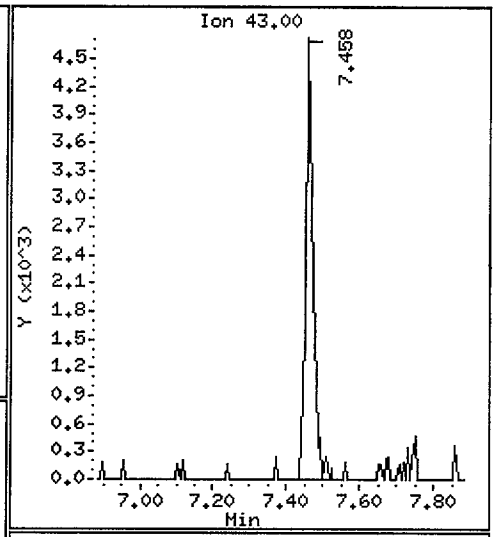
Column phase: J+W 624

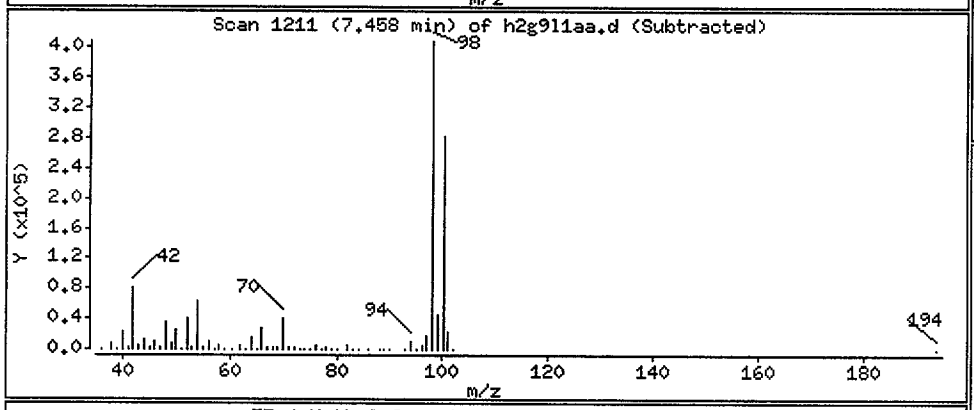
Column diameter: 0.18

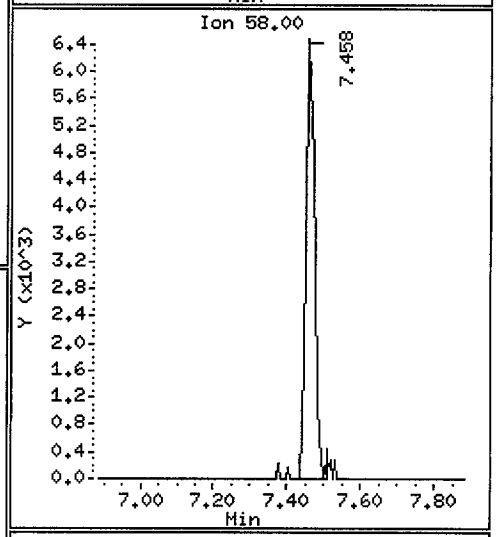
53 4-Methyl-2-pentanone

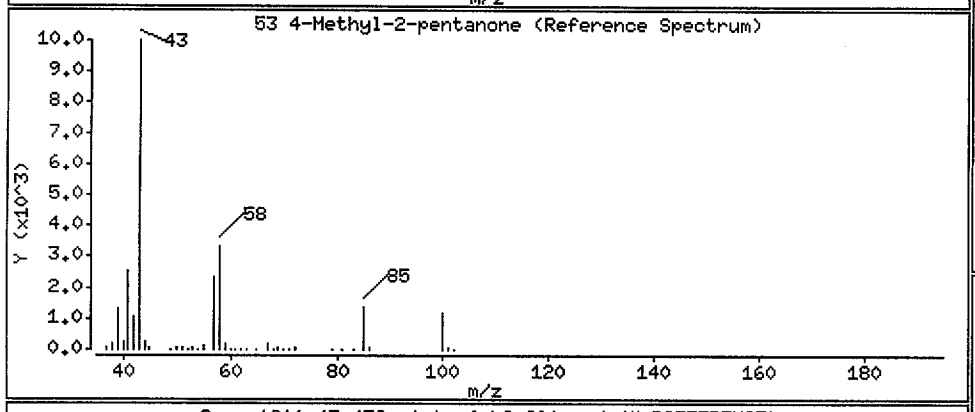
Concentration: 0.023412 ug

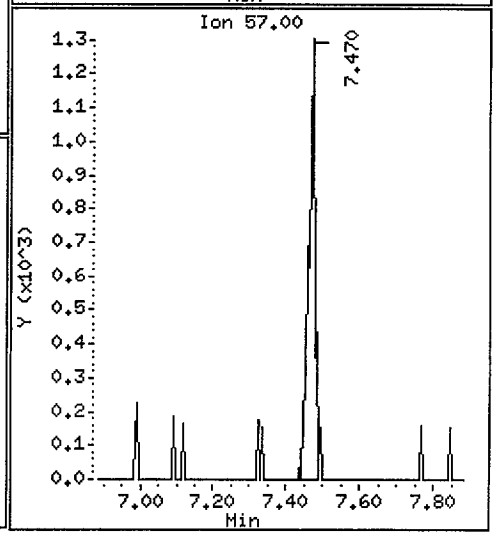


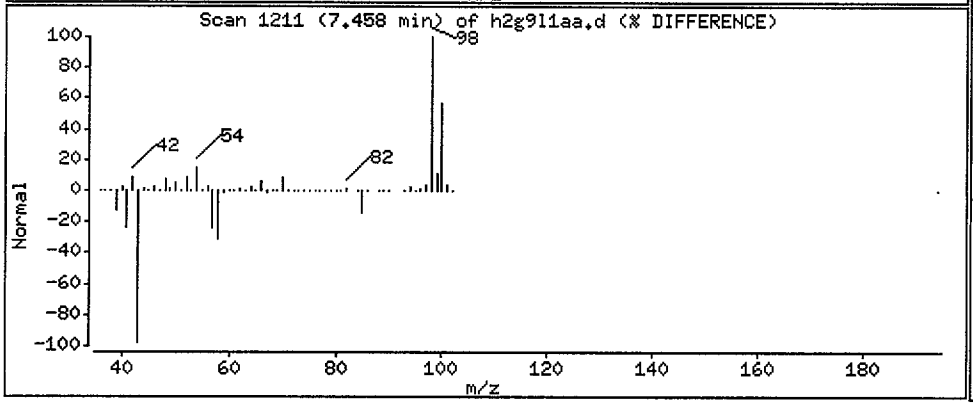












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

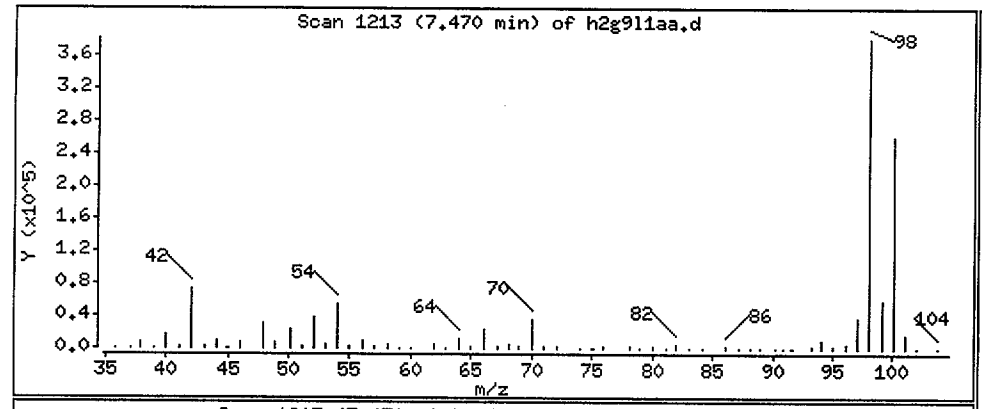
Operator: 22980

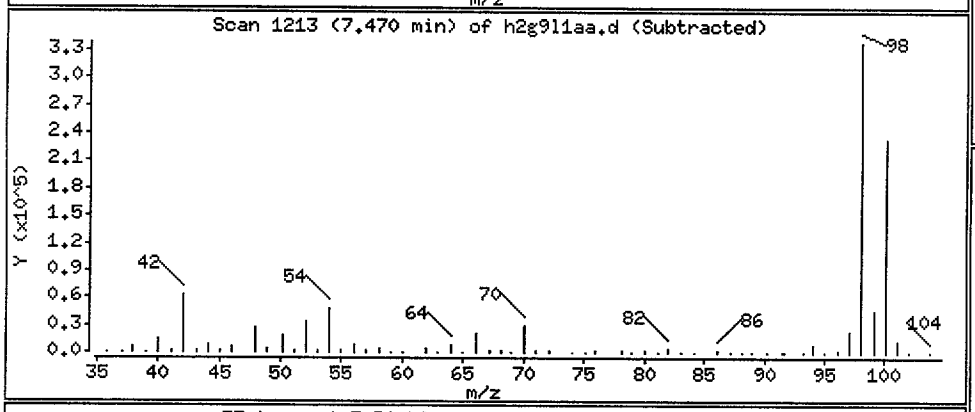
Column phase: J+W 624

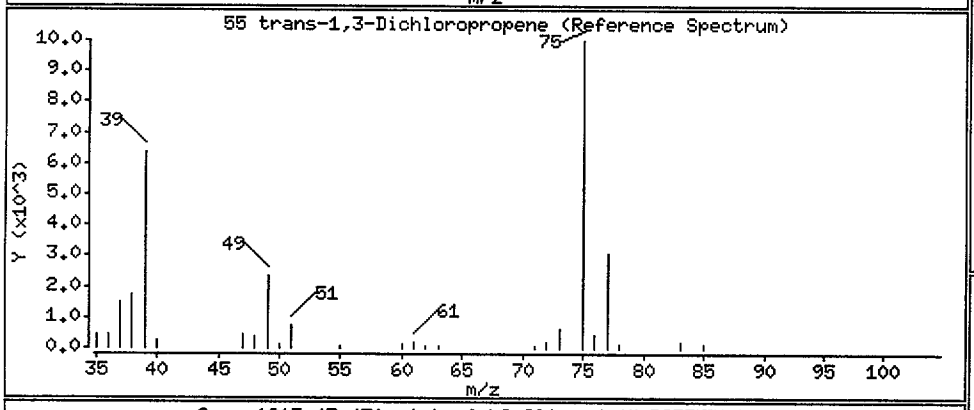
Column diameter: 0.18

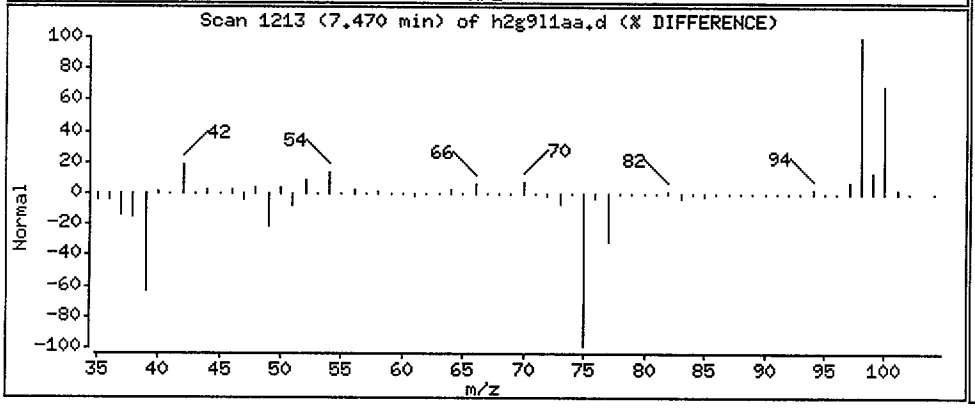
55 trans-1,3-Dichloropropene

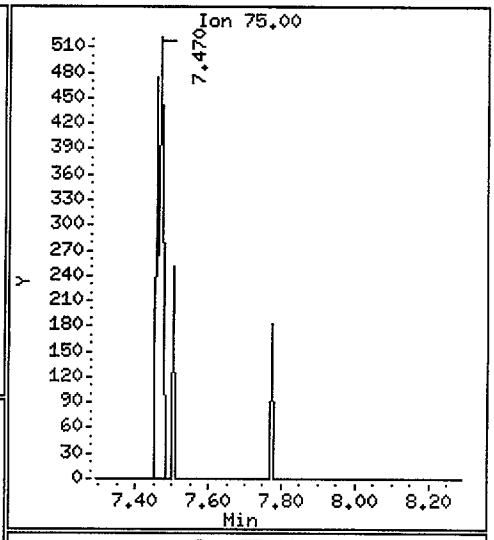
Concentration: 0.016505 ug

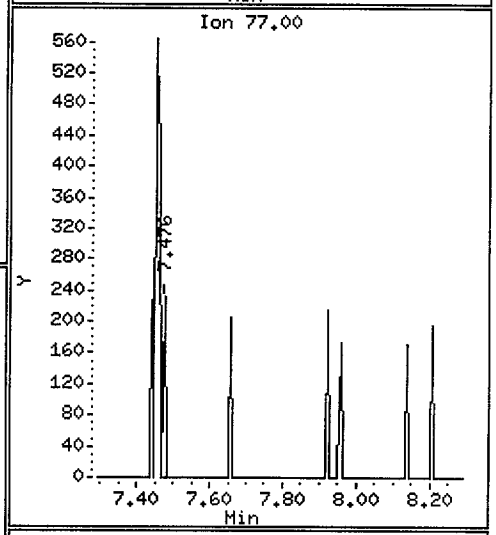


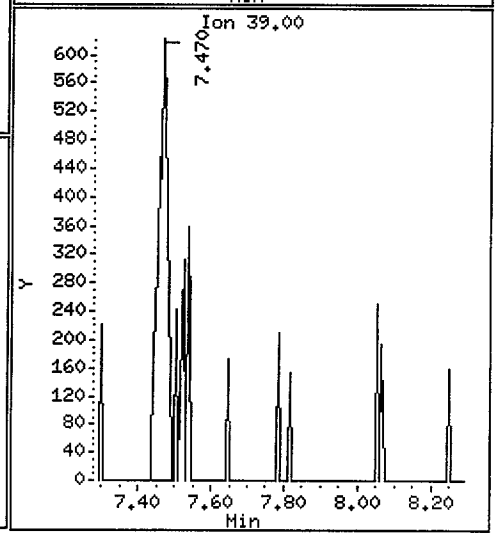












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

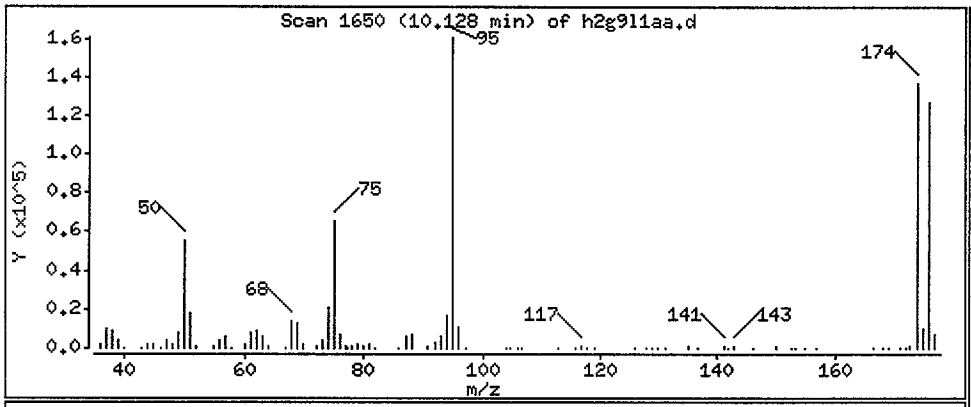
Operator: 22980

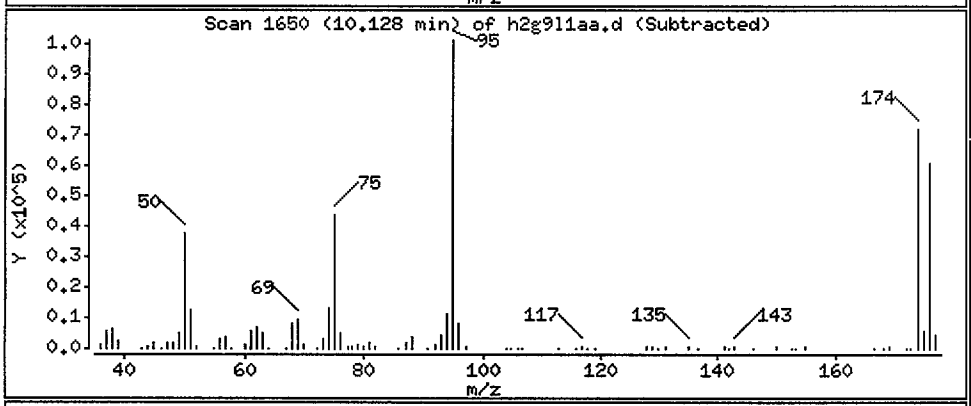
Column phase: J+W 624

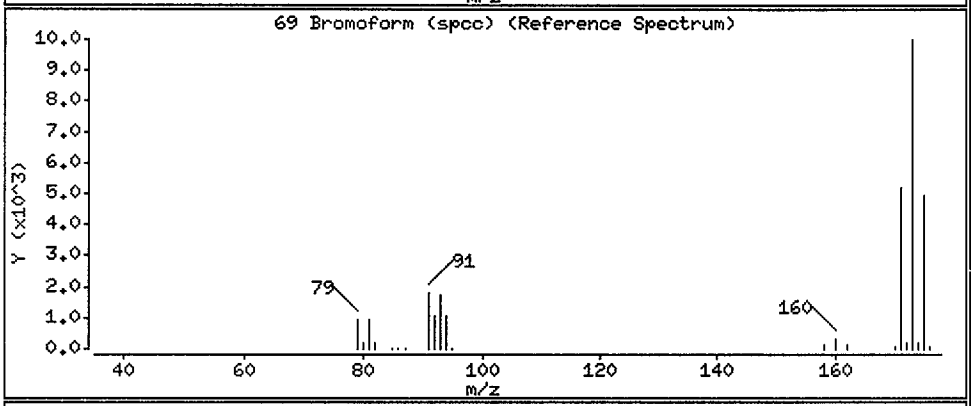
Column diameter: 0.18

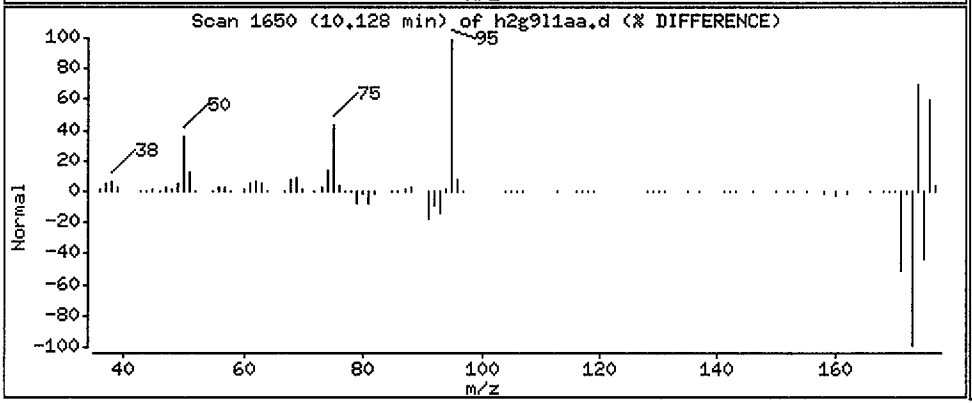
69 Bromoform (spcc)

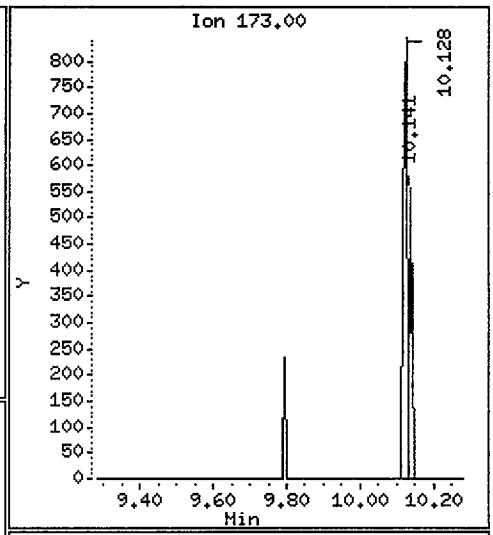
Concentration: 0.026950 ug

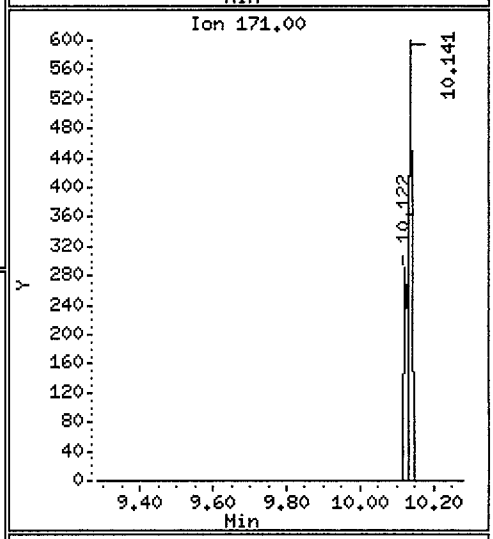


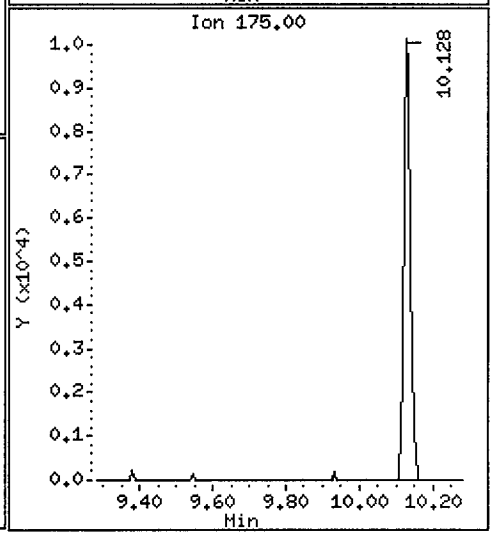












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Report Date: 14-Apr-2006 17:00

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g9l1aa.d
Lab Smp Id: H2G9L1AA Client Smp ID: G-2918-R1-VOST TENA
Inj Date : 07-APR-2006 13:57
Operator : 22980 Inst ID: mz.i
Smp Info : H2G9L1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	861733	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide CO2				CAS #: 124-38-9			
0.906	6253563	72.5696126	1.8142	5	NIST05.1	80	1

DW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

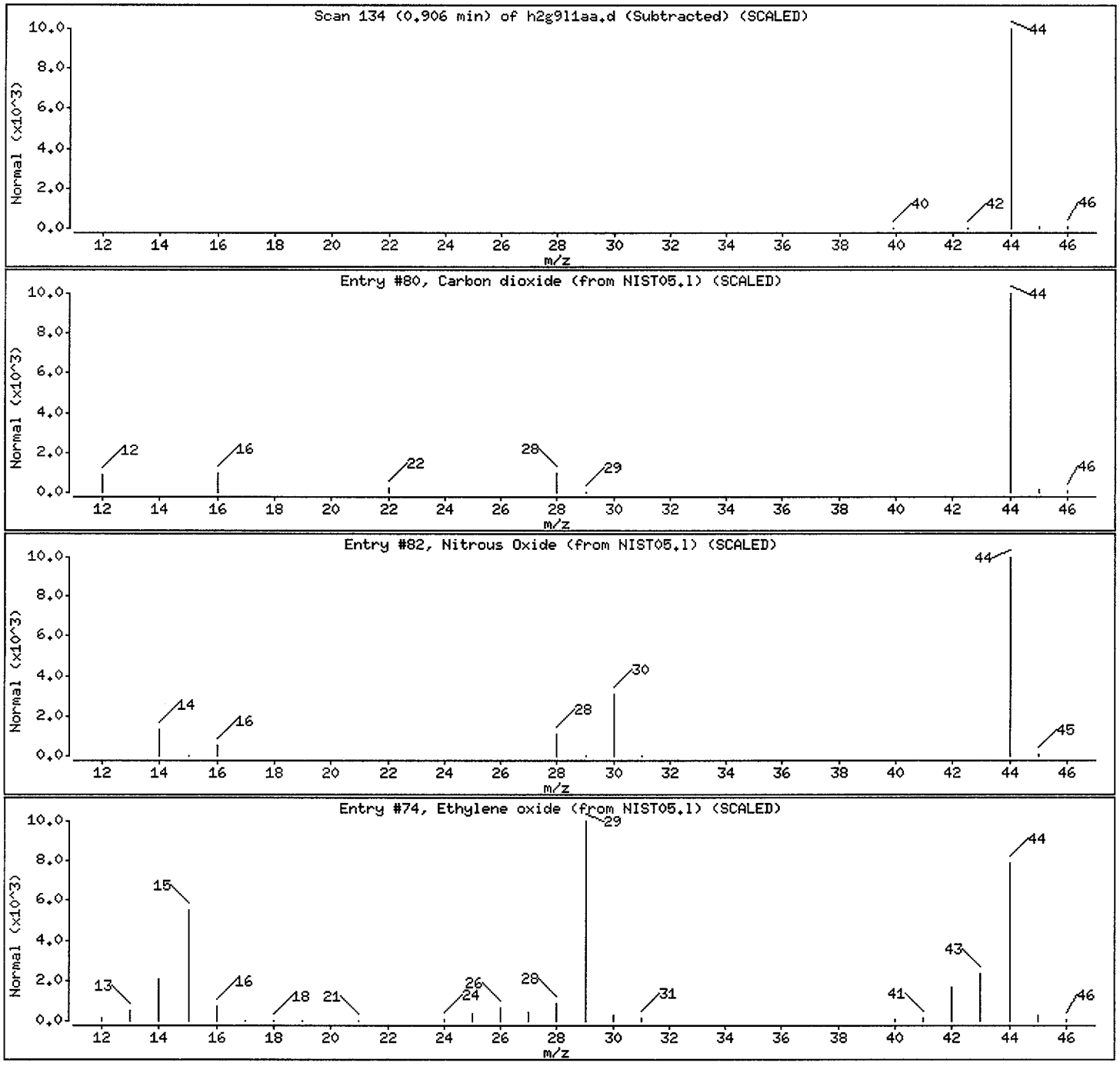
Sample Info: H2G9L1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-014 **Work Order #...:** H2G9W1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.60**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0062 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.040**	**0.010**	**ug**	**0.0016**
Bromoform	**0.17**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0095 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0049 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**1.6**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.12**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.033**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-014 **Work Order #...:** H2G9W1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.040**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.23**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.17**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0053 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0073 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0073 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	71	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-014 **Work Order #:** H2G9W1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Report Date: 07-Apr-2006 13:41

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Lab Smp Id: H2G9W1AA Client Smp ID: G-3008-R2-VOST PAIR
Inj Date : 07-APR-2006 13:25
Operator : 22980 Inst ID: mx.i
Smp Info : H2G9W1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1184556	10.0000	
* 2 Chlorobenzene-d5	119	7.584	7.582	(1.000)	233191	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.748	10.746	(1.000)	245313	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.273	(0.880)	146263	7.26237	0.18156
$ 5 1,2-Dichloroethane-d4	65	4.555	4.553	(0.939)	115063	7.32947	0.18324
$ 6 Toluene-d8	98	6.252	6.250	(0.824)	816144	7.14844	0.17871
$ 7 4-Bromofluorobenzene	95	8.874	8.872	(0.826)	186898	6.42576	0.16064
M 9 Xylene (total)	106				33082	0.63407	0.015852
11 Chloromethane (spcc)	50	1.252	1.262	(0.258)	2273	0.04120	0.0010300
17 Trichlorofluoromethane	101	1.884	1.888	(0.388)	6333	0.13443	0.0033609
21 Acetone	43	2.383	2.381	(0.491)	40265	24.0000	0.60000
23 Carbon Disulfide	76	2.499	2.497	(0.515)	34293	0.37988	0.0094969
26 Methylene Chloride	84	2.742	2.746	(0.565)	29190	1.59389	0.039847
33 *Vinyl Acetate	86	3.247	3.421	(0.669)	944	0.70130	~~0.017532~~
36 2-Butanone	43	3.867	3.871	(0.797)	5193	1.98472	~~0.049618~~
38 *THF	42	4.111	4.109	(0.847)	1773	1.10618	0.027654
39 Chloroform (ccc)	83	4.135	4.139	(0.852)	59655	1.32503	0.033126
41 Carbon Tetrachloride	117	4.439	4.437	(0.915)	8309	0.19541	0.0048852
42 1,1-Dichloropropene	75	4.853	4.437	(1.000)	91046	1.94131	~~0.048533~~
43 Benzene	78	4.610	4.607	(0.950)	29962	0.24976	0.0062440

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Report Date: 07-Apr-2006 13:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
44 1,2-Dichloroethane	62	4.853	4.620	(1.000)	21420	1.06104	~~0.026526~~
45 Trichloroethene	130	5.175	5.173	(1.066)	6832	0.21226	0.0053066
49 Bromodichloromethane	83	5.607	5.605	(1.155)	40390	1.60703	0.040176
51 cis-1,3-Dichloropropene	75	6.313	6.007	(1.301)	6964	0.23660	0.0059149
52 4-Methyl-2-pentanone	43	6.252	6.147	(1.288)	6918	1.10384	~~0.027596~~
53 Toluene (ccc)	91	6.313	6.311	(0.832)	940635	6.88634	0.17216
54 trans-1,3-Dichloropropene	75	6.313	6.506	(0.832)	6902	0.28832	~~0.0072080~~
56 1,1,2-Trichloroethane	97	6.818	6.670	(0.899)	2684	0.24880	0.0062201
57 Tetrachloroethene	164	6.818	6.816	(0.899)	272111	9.27150	0.23179
59 2-Hexanone	43	6.721	6.907	(0.886)	2793	0.61197	~~0.015299~~
60 Chlorodibromomethane	129	7.037	7.035	(0.928)	63371	4.74036	0.11851
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	4619713	65.8840	1.6471
64 Ethylbenzene (ccc)	106	7.718	7.716	(1.018)	2354	0.04883	0.0012208
65 m&p-Xylene	106	7.840	7.838	(1.034)	16540	0.29267	0.0073168
66 o-Xylene	106	7.840	8.251	(1.034)	16541	0.34140	~~0.0085349~~
68 Bromoform (spcc)	173	8.460	8.464	(1.115)	44276	6.85277	0.17132
69 Isopropylbenzene	105	8.692	8.689	(1.146)	11263	0.07248	0.0018120
73 1,2,3-Trichloropropane	110	9.239	9.115	(0.860)	1868	0.81587	~~0.020397~~
80 1,2,4-Trimethylbenzene	105	10.091	10.125	(0.939)	15969	0.20177	~~0.0050441~~
84 1,4-Dichlorobenzene	146	10.778	10.788	(1.003)	1508	0.04029	0.0010073
90 Napthalene	128	13.948	13.946	(1.298)	2038	0.19156	0.0047889

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Report Date: 07-Apr-2006 13:41

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g9w1aa.d
Lab Smp Id: H2G9W1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3008-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1184556	3.08
2 Chlorobenzene-d5	214194	107097	428388	233191	8.87
3 1,4 Dichlorobenze	242601	121300	485202	245313	1.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.04
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.02

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.

Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Report Date: 07-Apr-2006 13:41

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G9W1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3008-R2-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

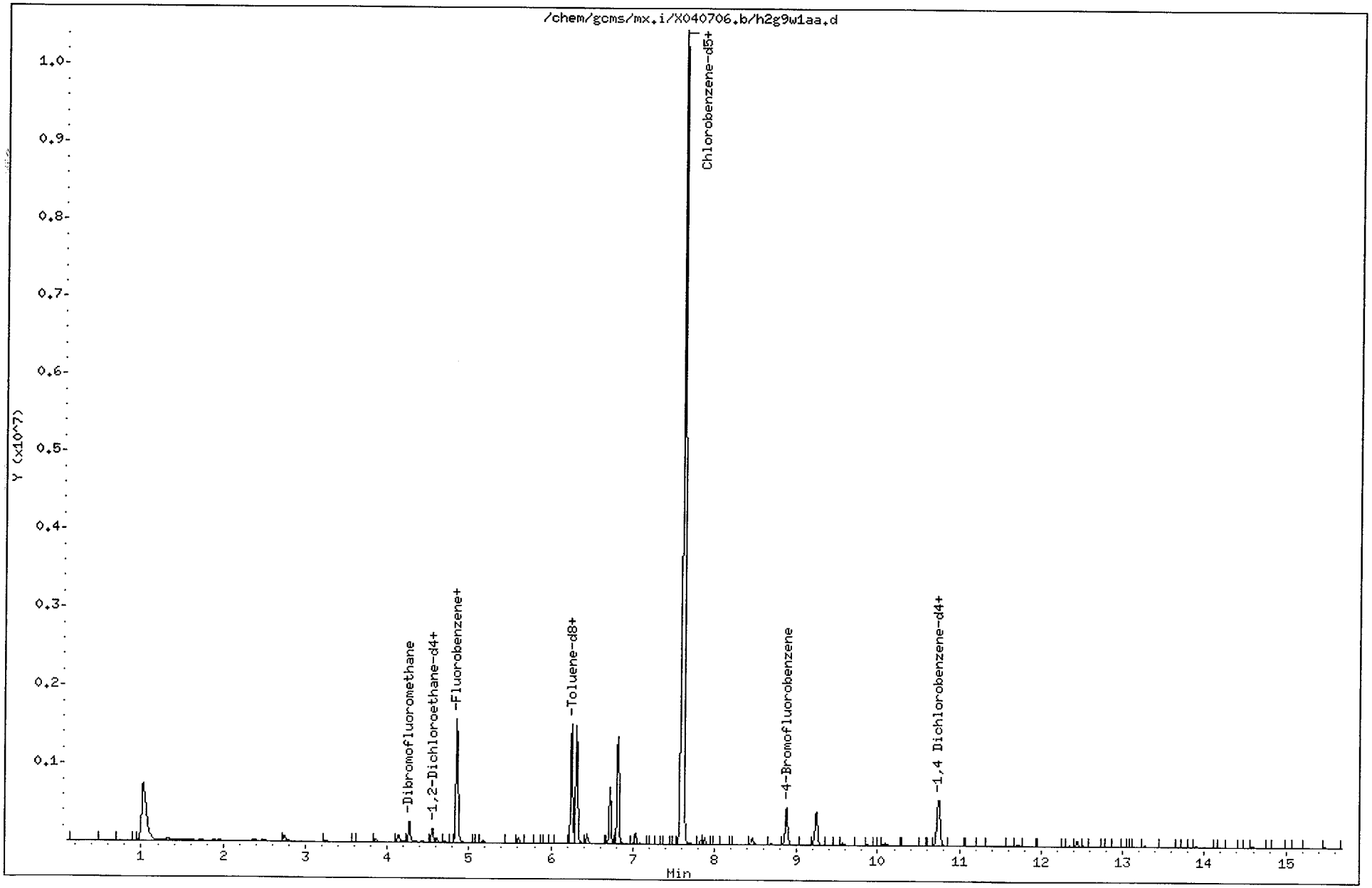
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18156	72.62	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18324	73.29	50-150
$ 6 Toluene-d8	0.25000	0.17871	71.48	50-150
$ 7 4-Bromofluorobenze	0.25000	0.16064	64.26	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Date : 07-APR-2006 13:25
Client ID: G-3008-R2-VOST PAIR
Sample Info: H2G9W1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

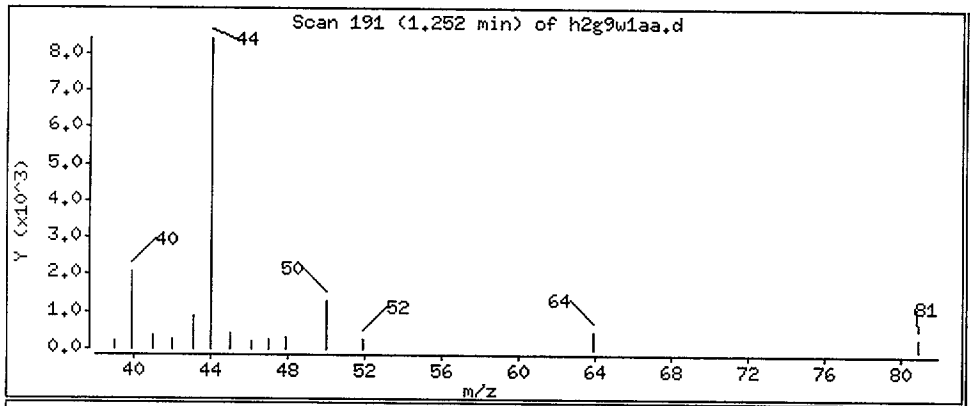
Operator: 22980

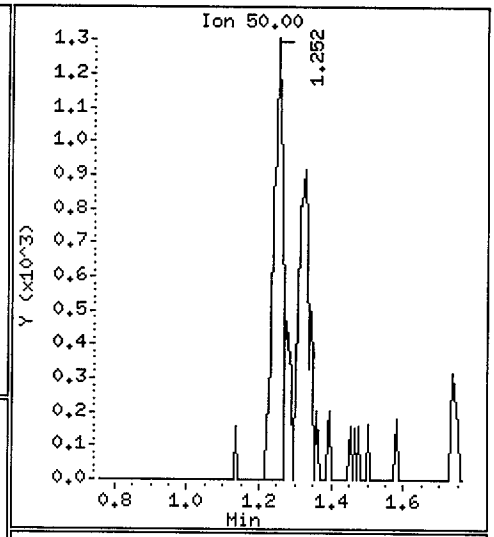
Column phase: J+W 624

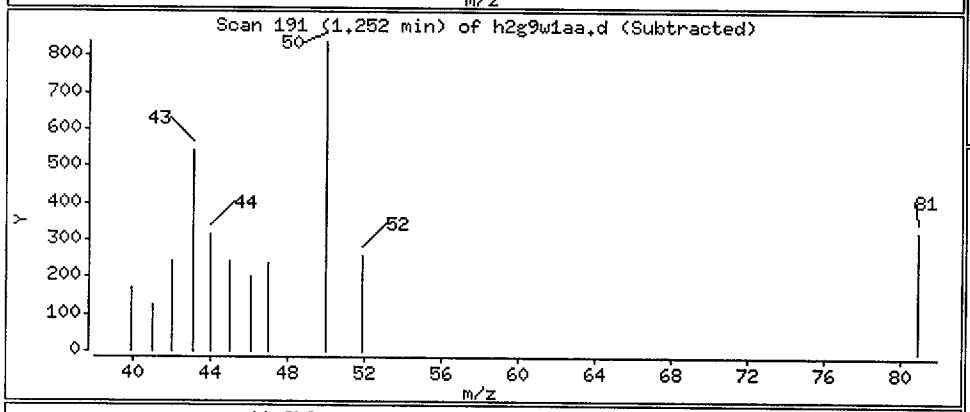
Column diameter: 0.18

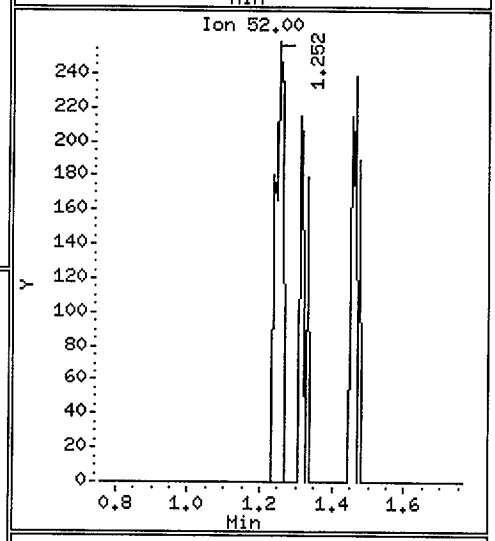
11 Chloromethane (spcc)

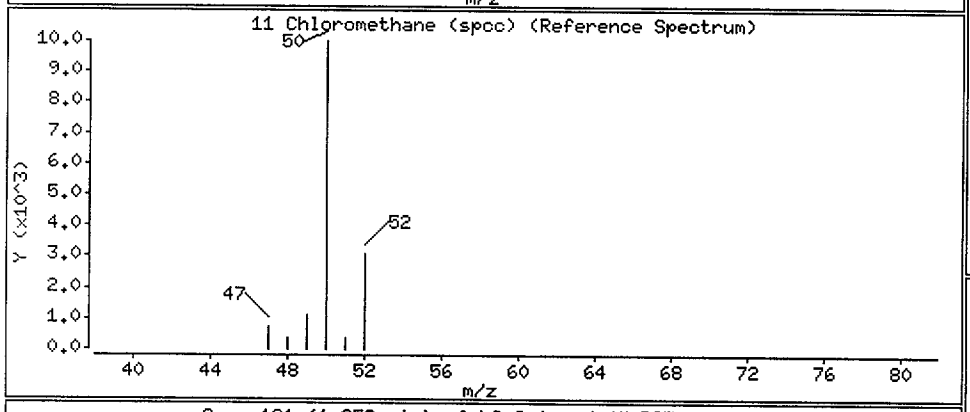
Concentration: 0.0010300 ug

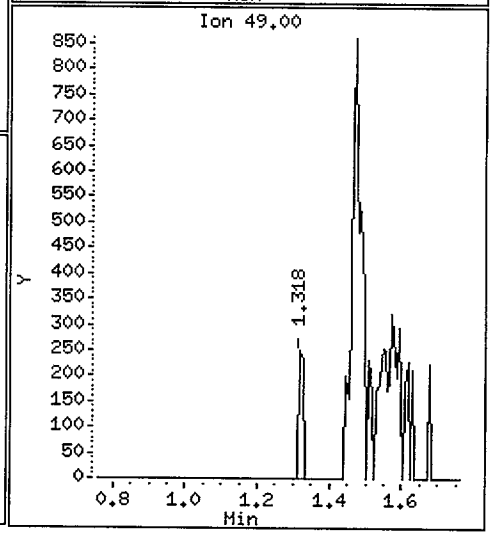


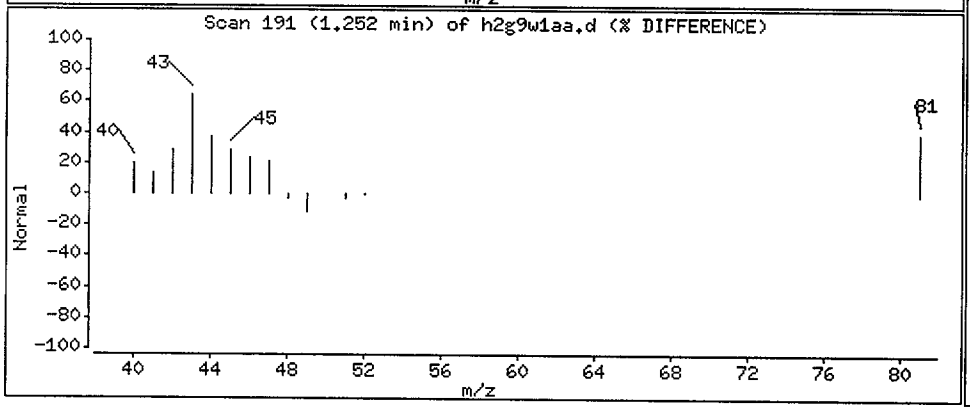












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

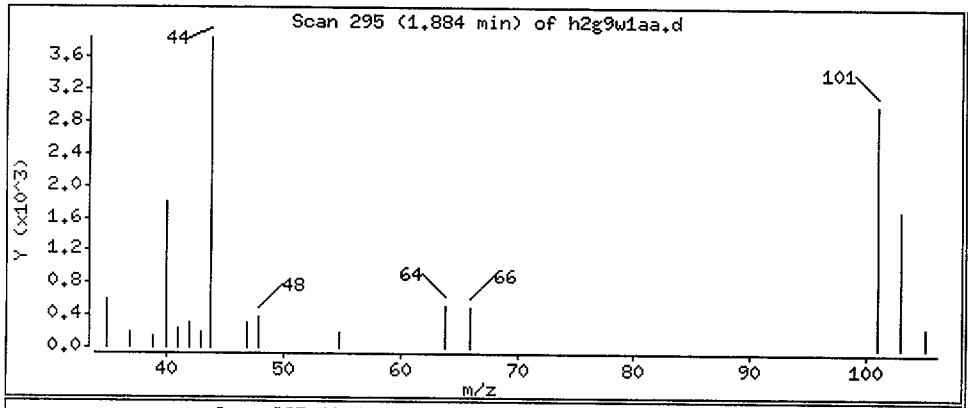
Operator: 22980

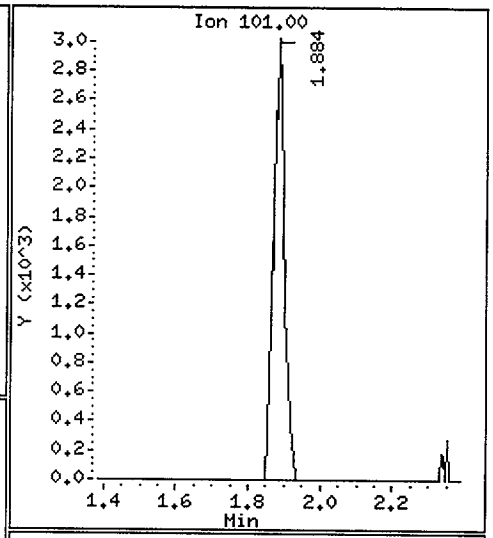
Column phase: J+W 624

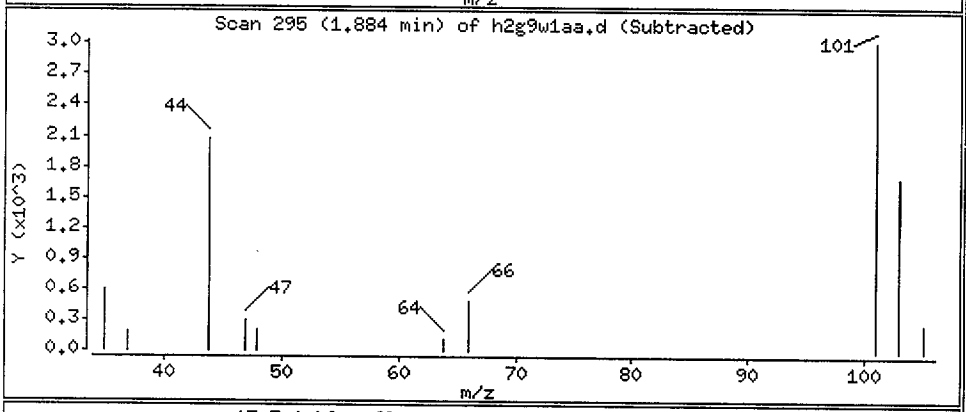
Column diameter: 0.18

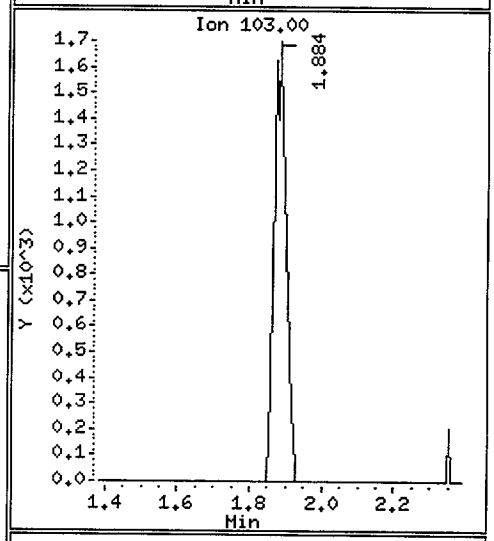
17 Trichlorofluoromethane

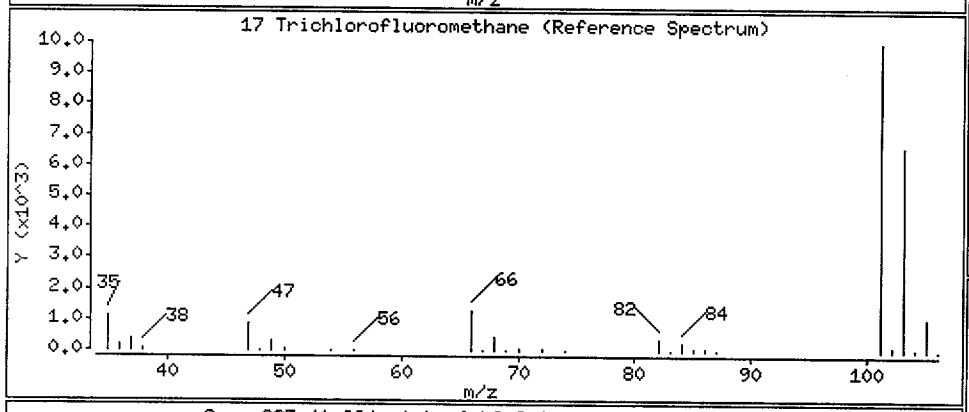
Concentration: 0.0033609 ug

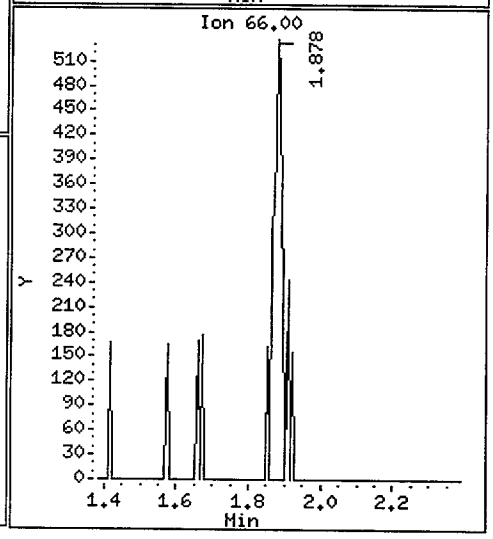


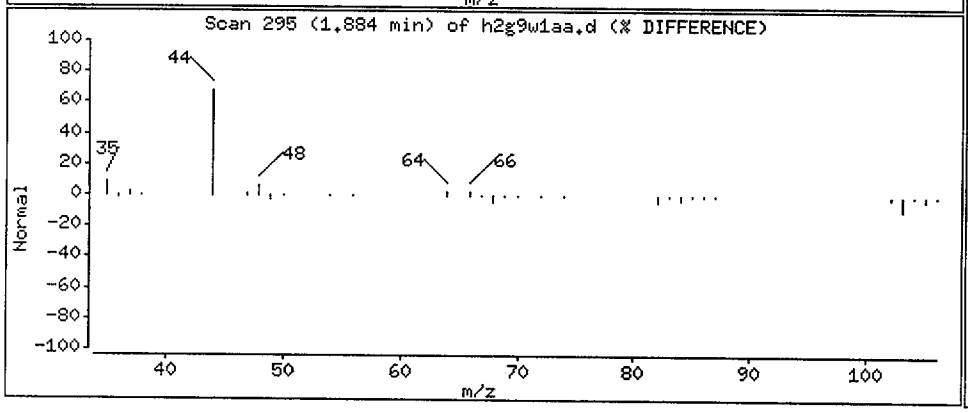












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

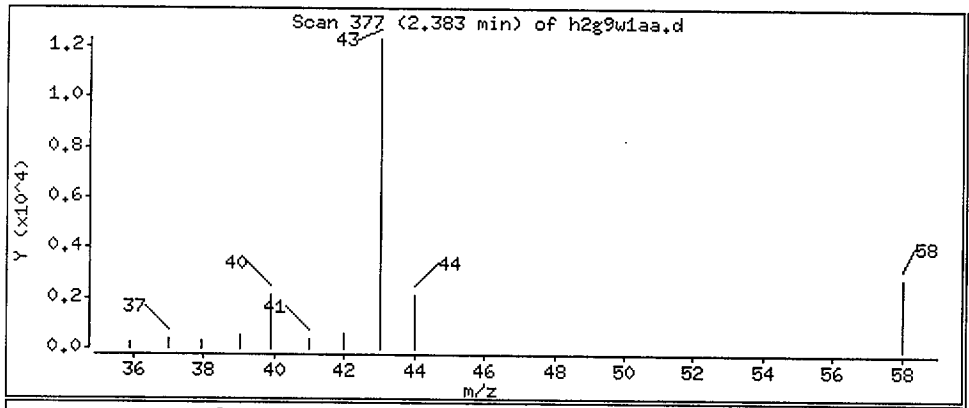
Operator: 22980

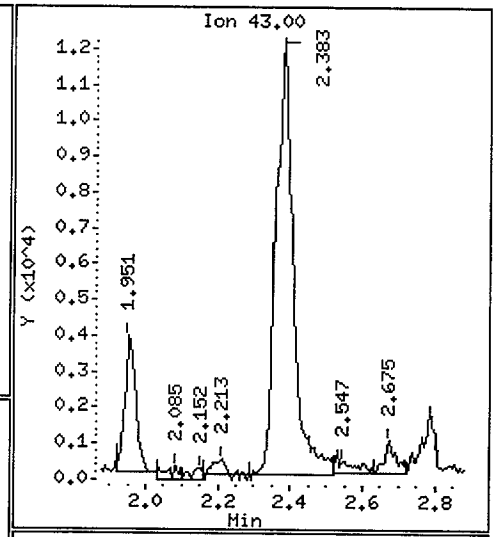
Column phase: J+W 624

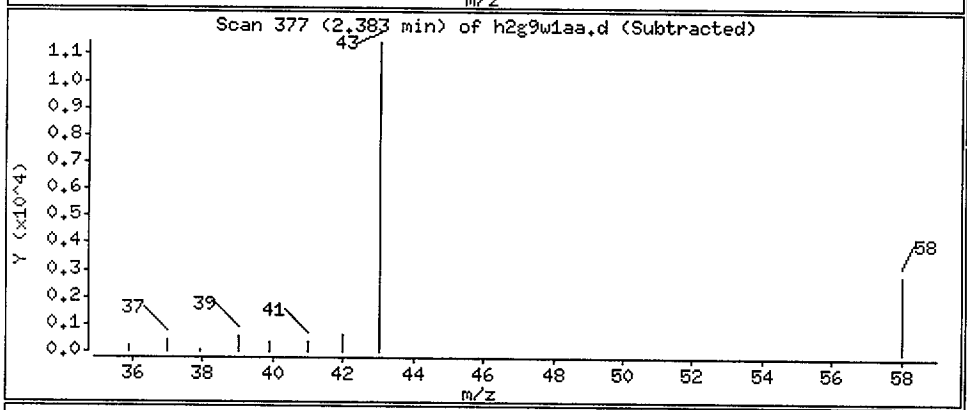
Column diameter: 0.18

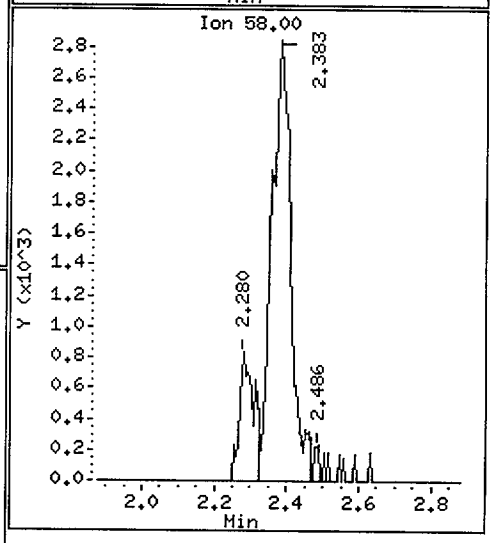
21 Acetone

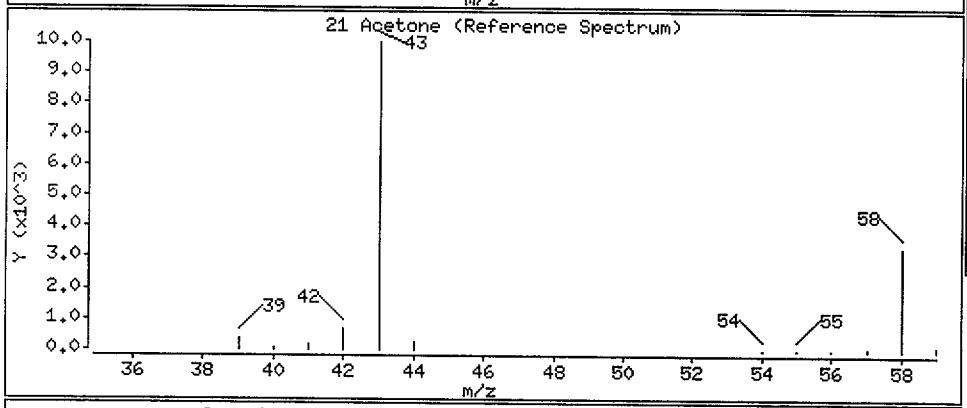
Concentration: 0.60000 ug

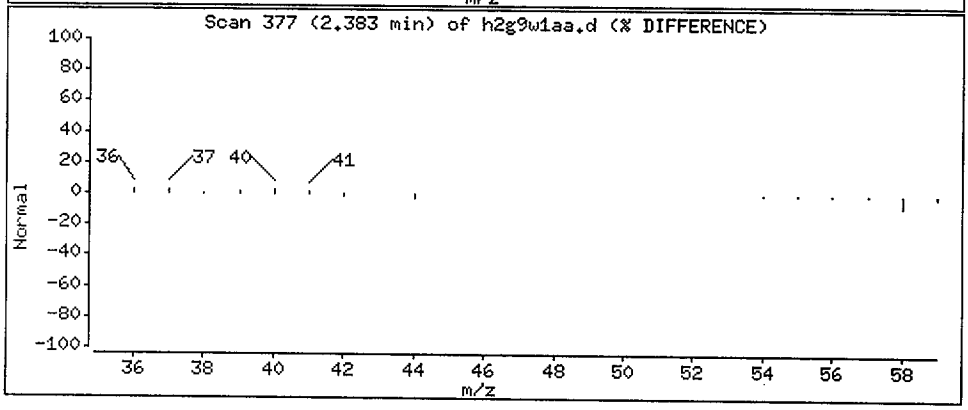












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

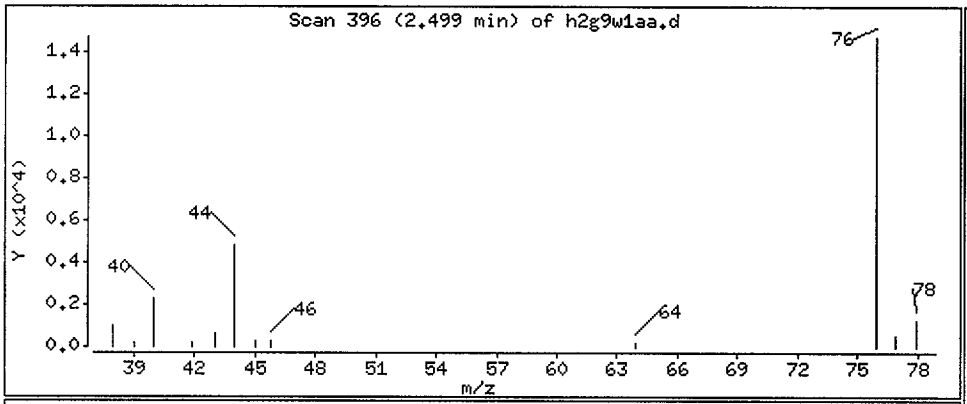
Operator: 22980

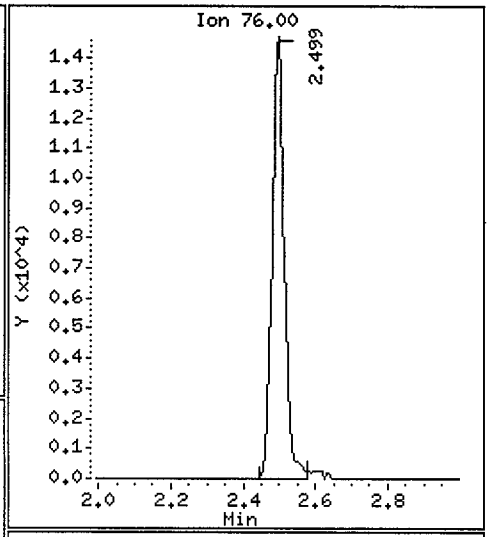
Column phase: J+W 624

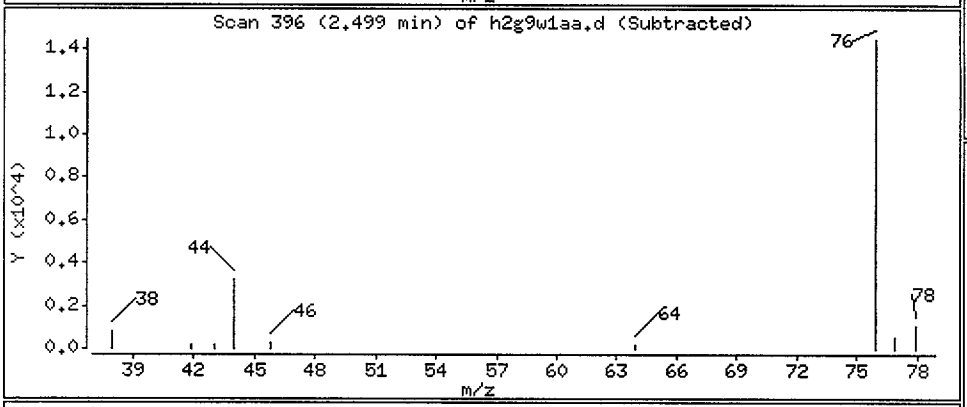
Column diameter: 0.18

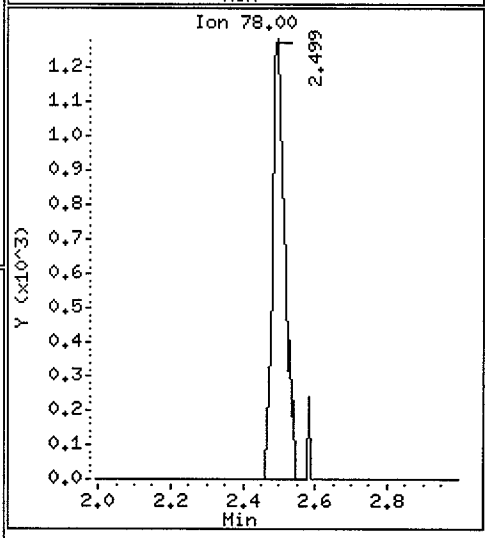
23 Carbon Disulfide

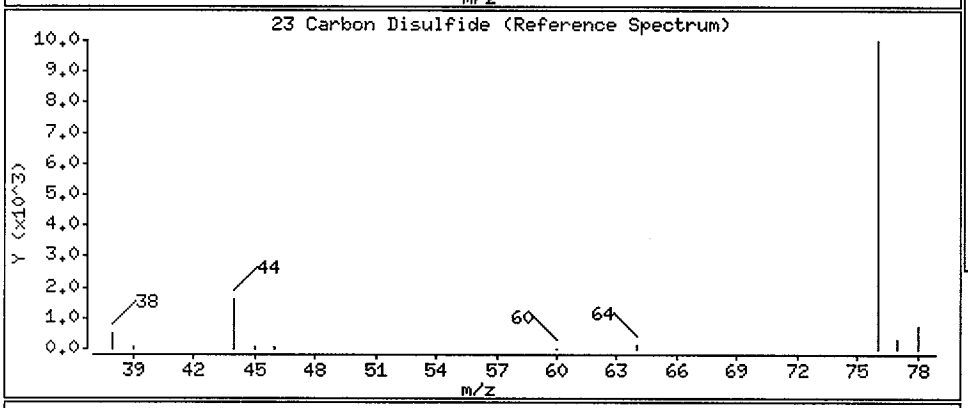
Concentration: 0.0094969 ug

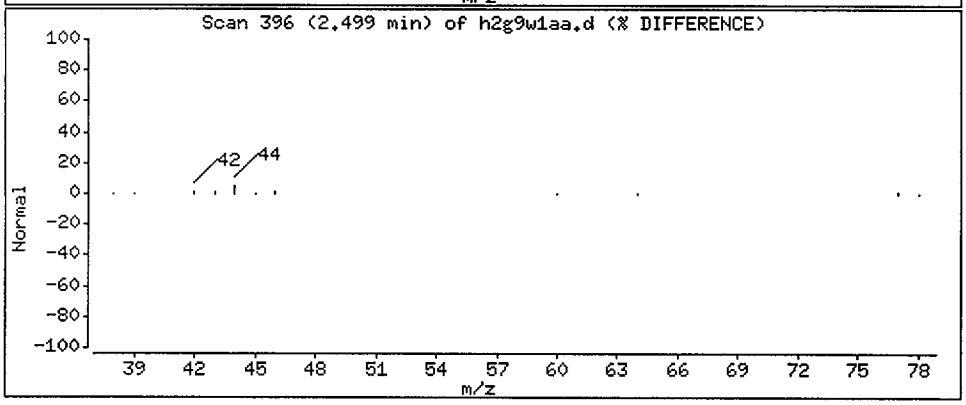












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

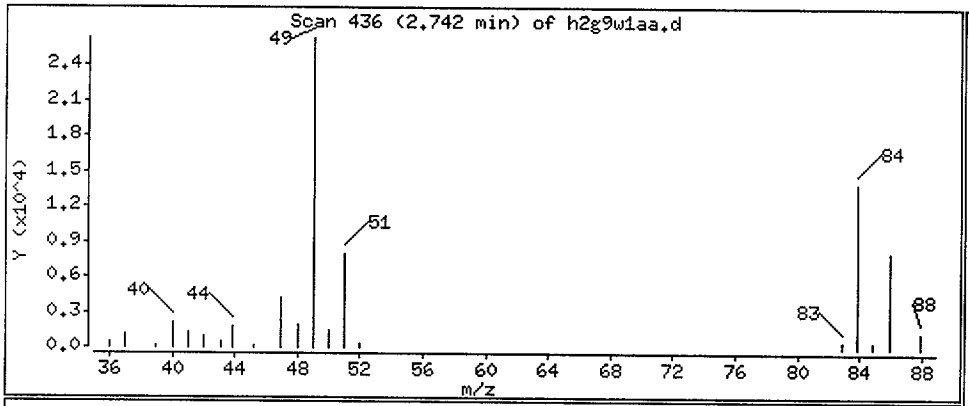
Operator: 22980

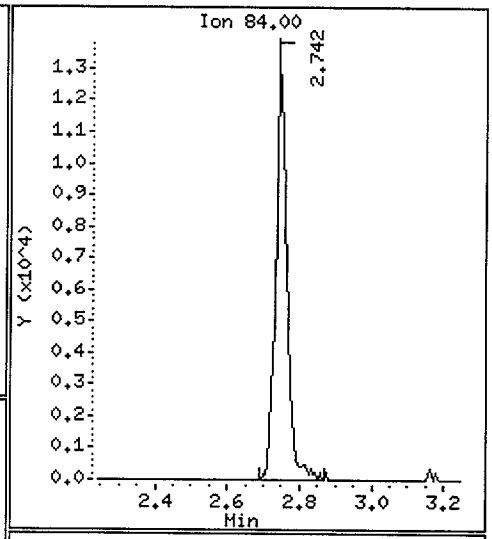
Column phase: J+W 624

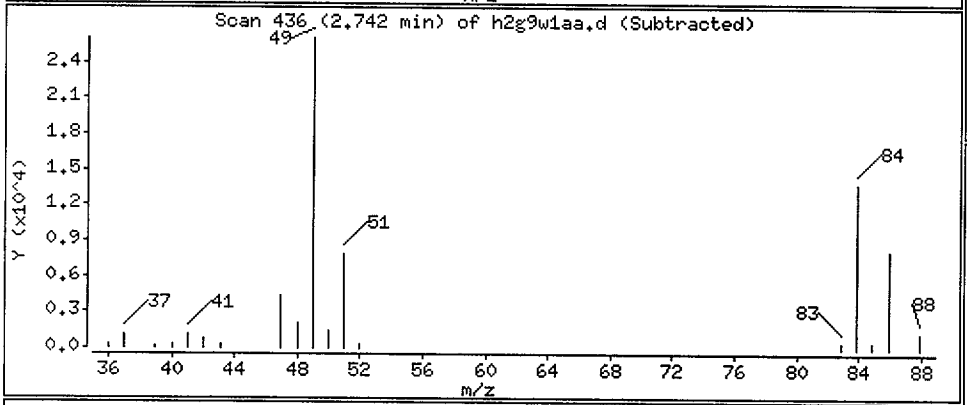
Column diameter: 0.18

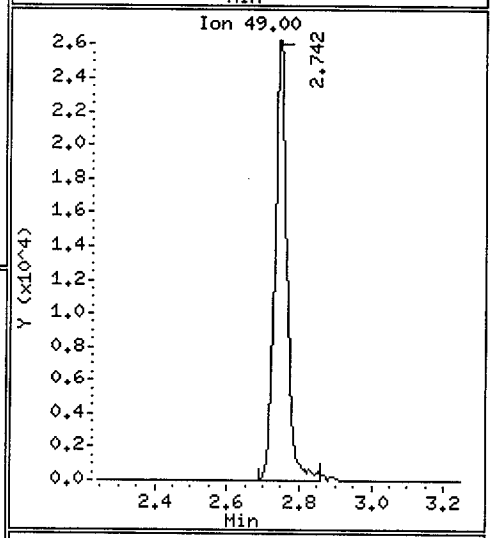
26 Methylene Chloride

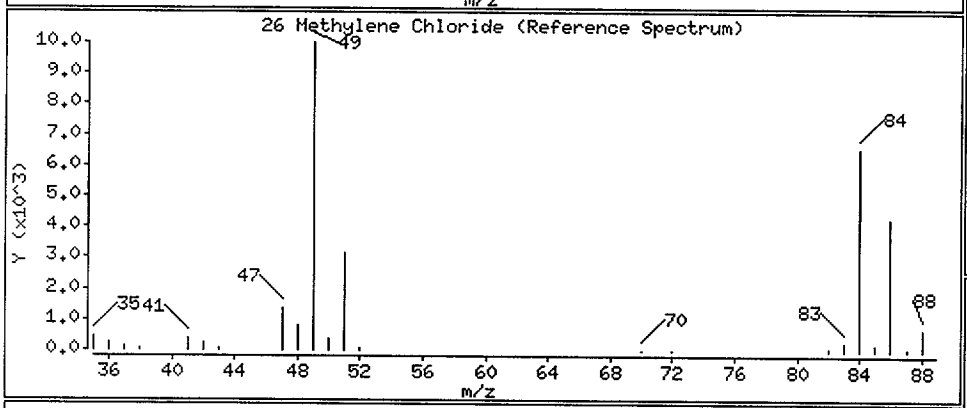
Concentration: 0.039847 ug

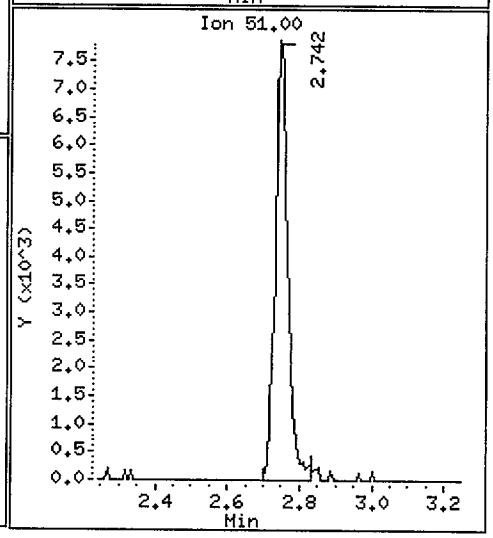


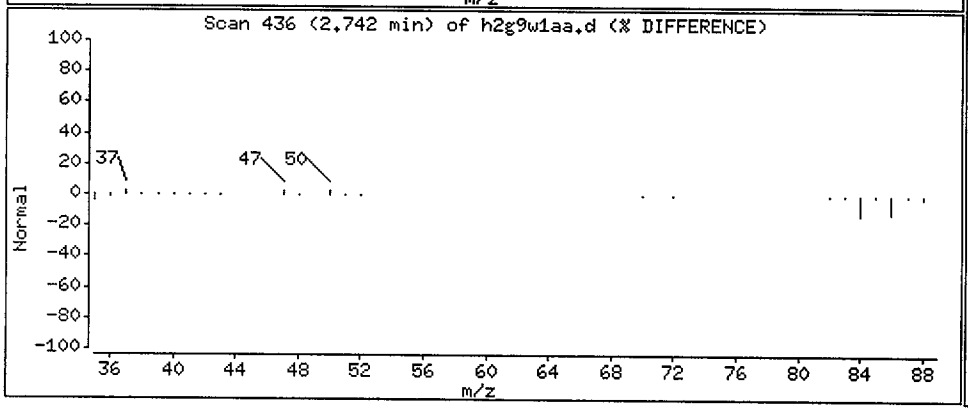












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

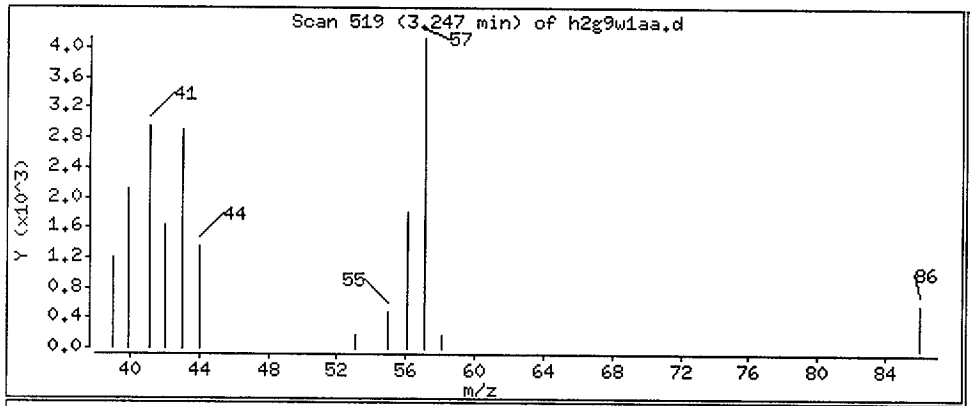
Operator: 22980

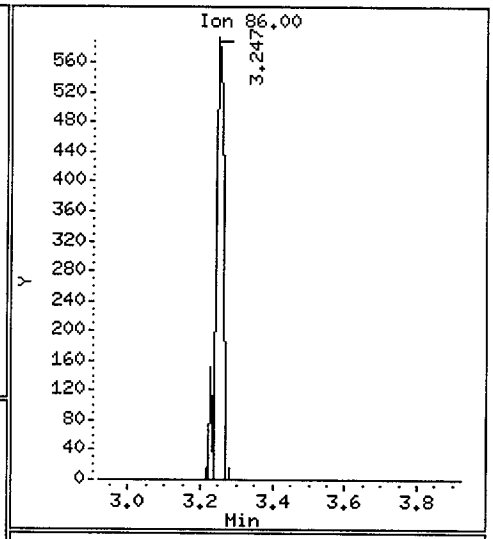
Column phase: J+W 624

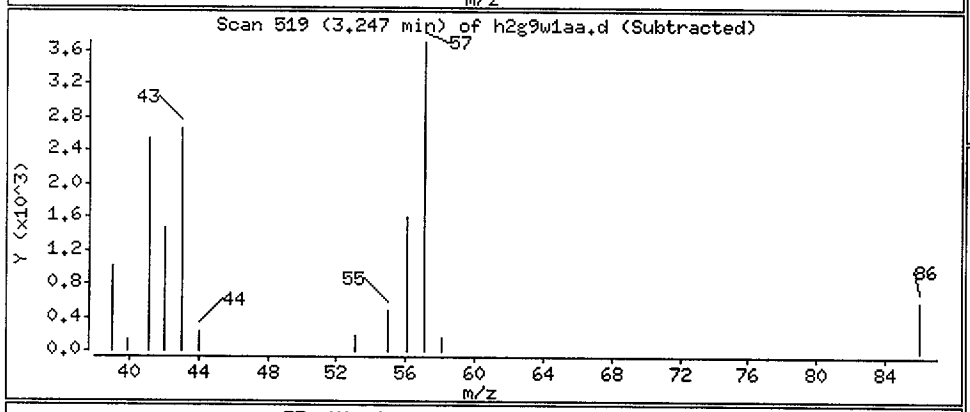
Column diameter: 0.18

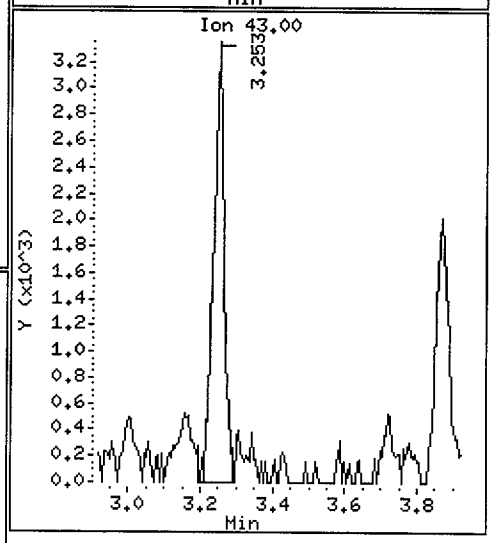
33 *Vinyl Acetate

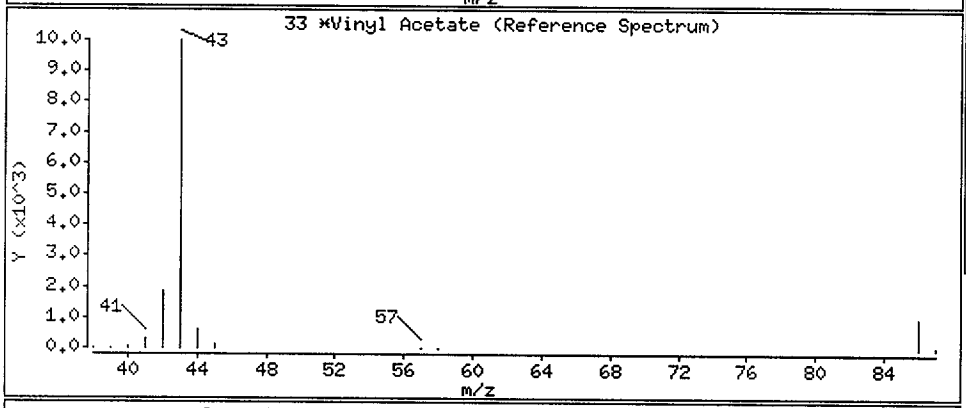
Concentration: 0.017532 ug

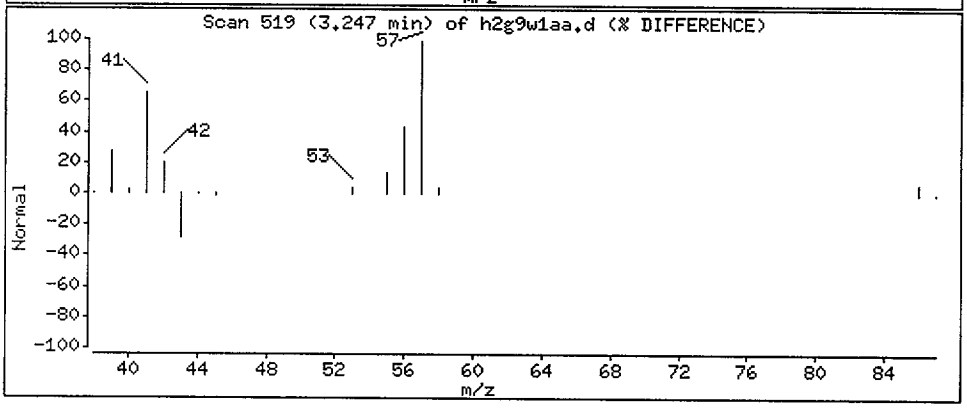












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

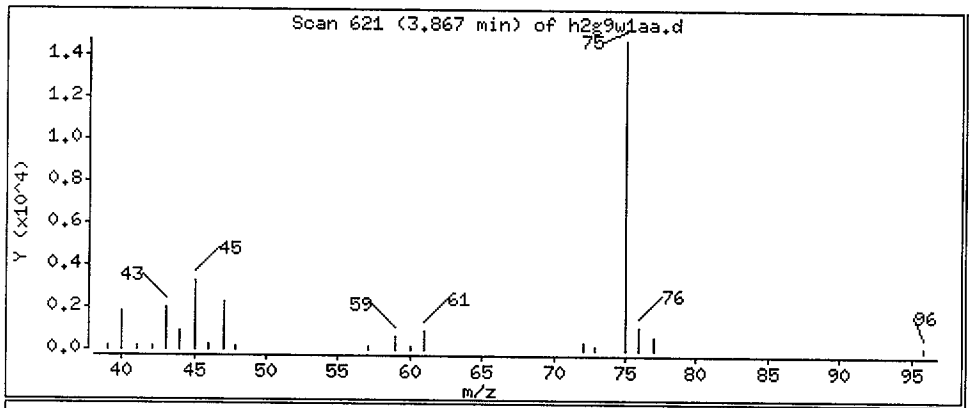
Operator: 22980

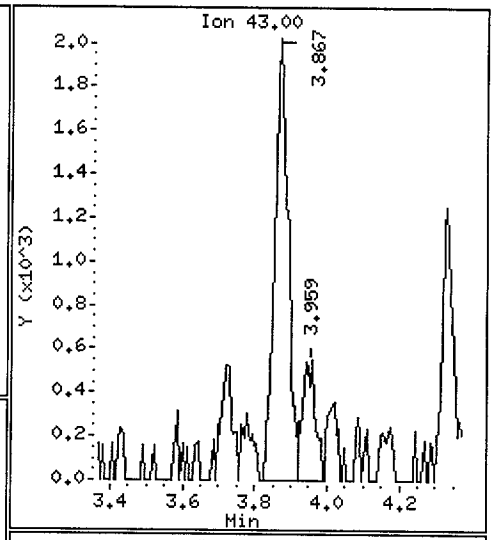
Column phase: J+W 624

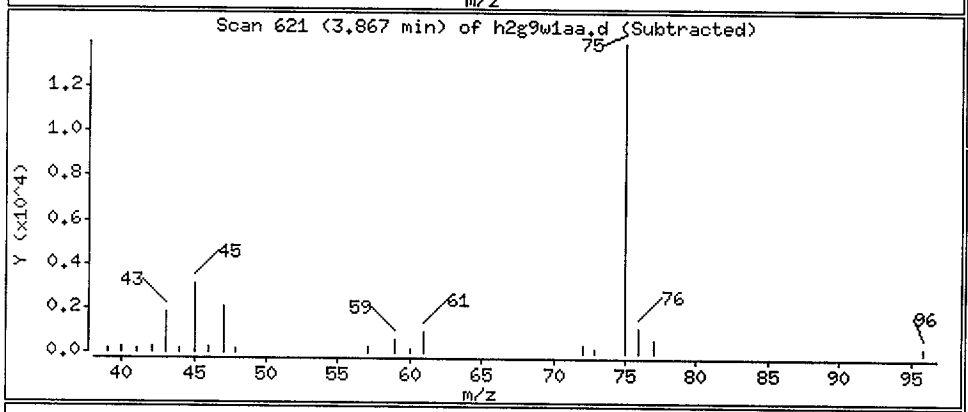
Column diameter: 0.18

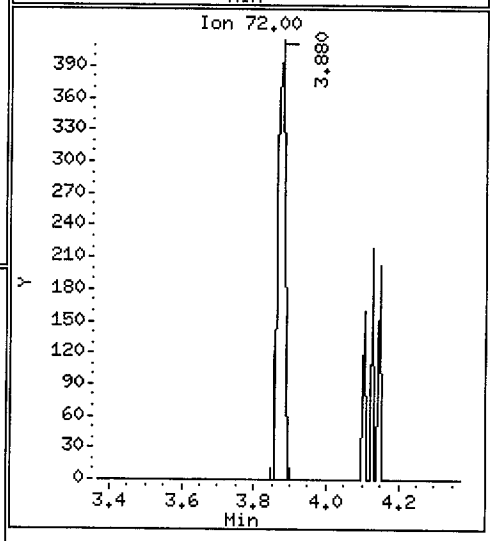
36 2-Butanone

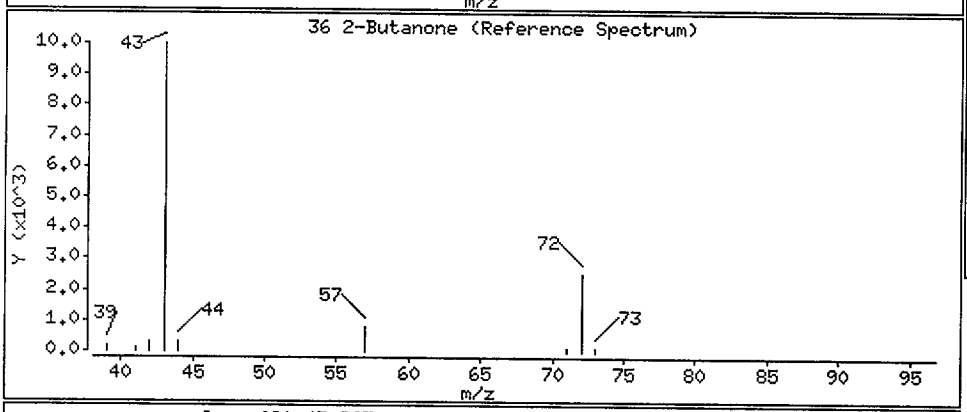
Concentration: 0.049618 ug

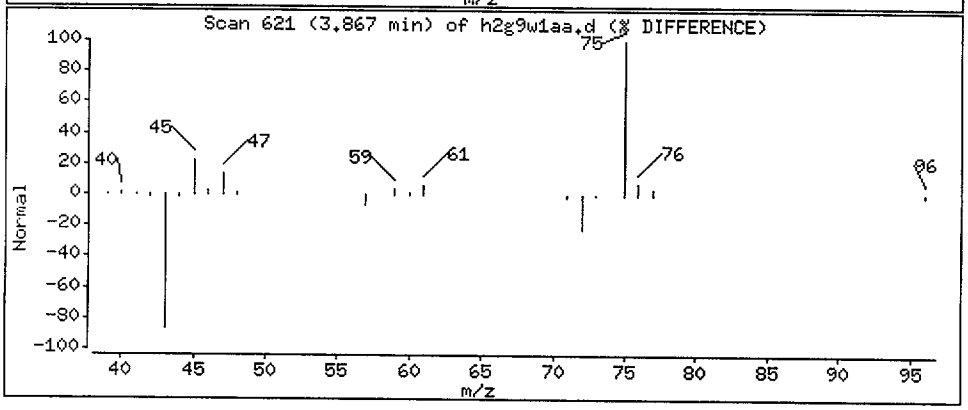












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

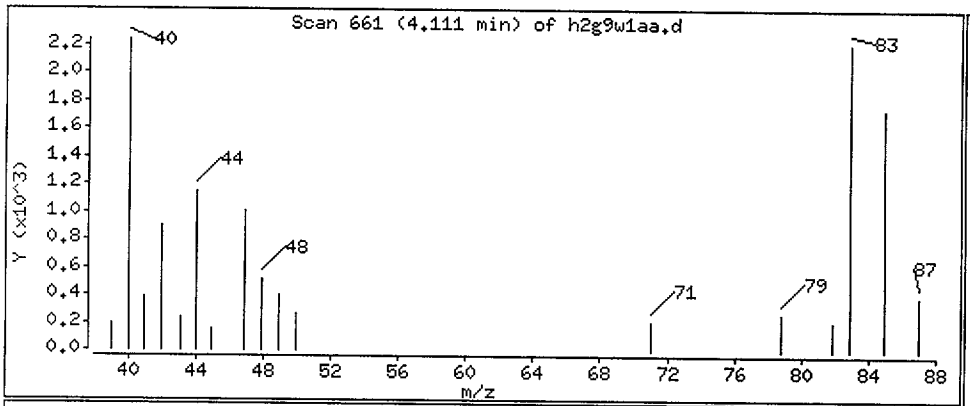
Operator: 22980

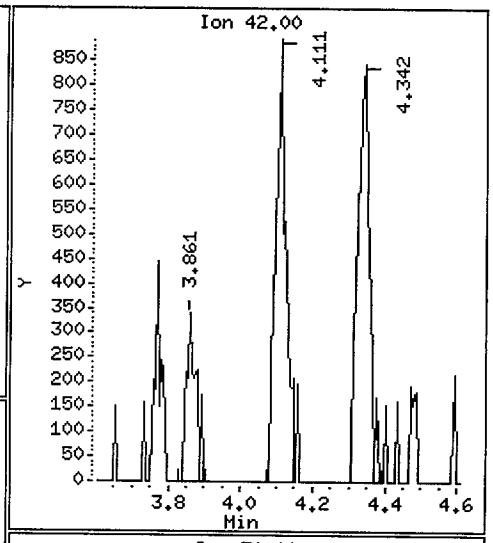
Column phase: J+W 624

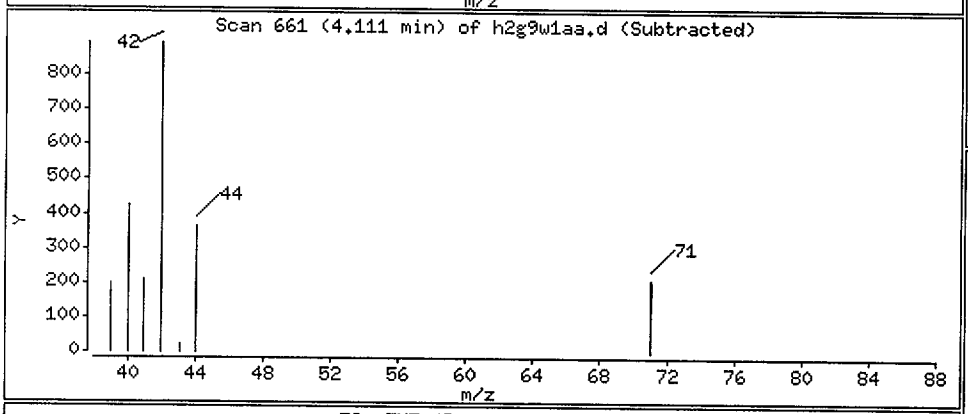
Column diameter: 0.18

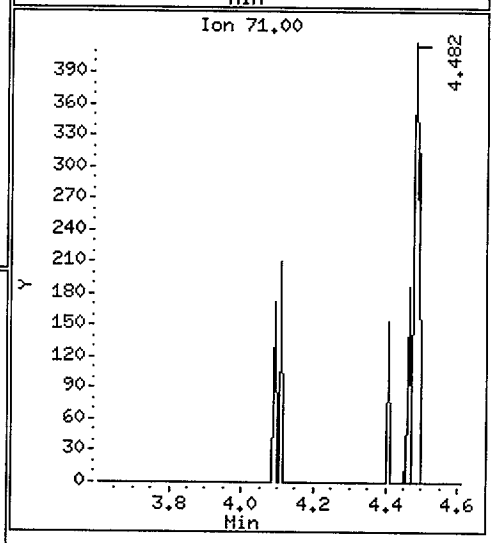
38 xTHF

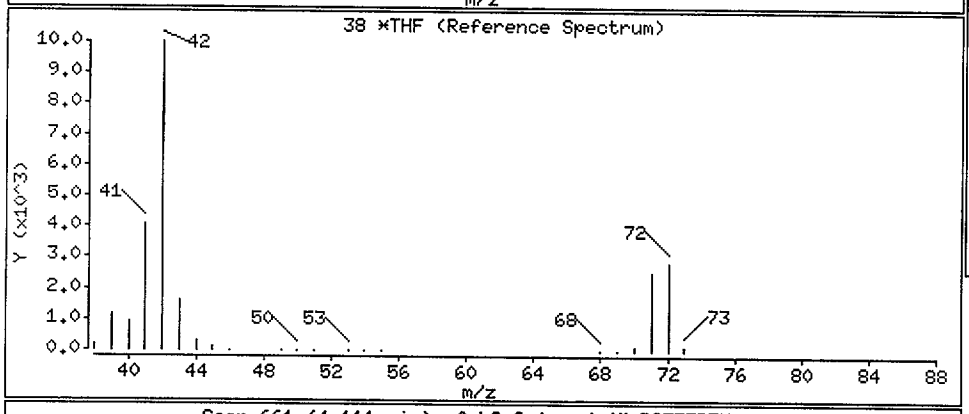
Concentration: 0.027654 ug

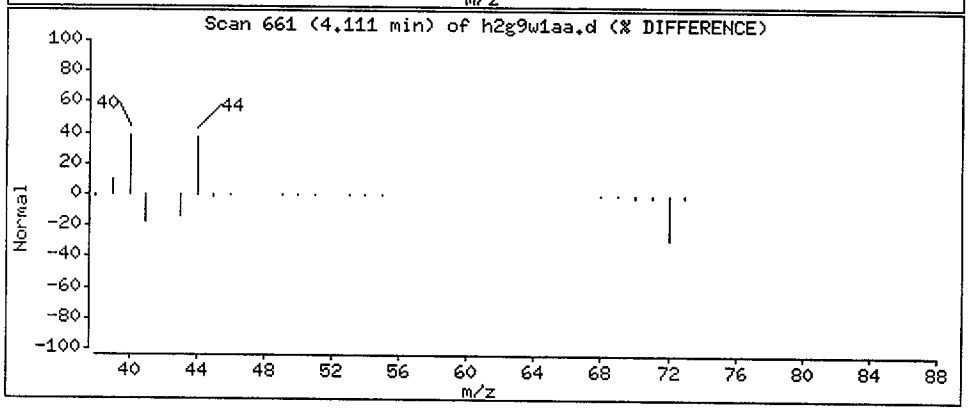












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

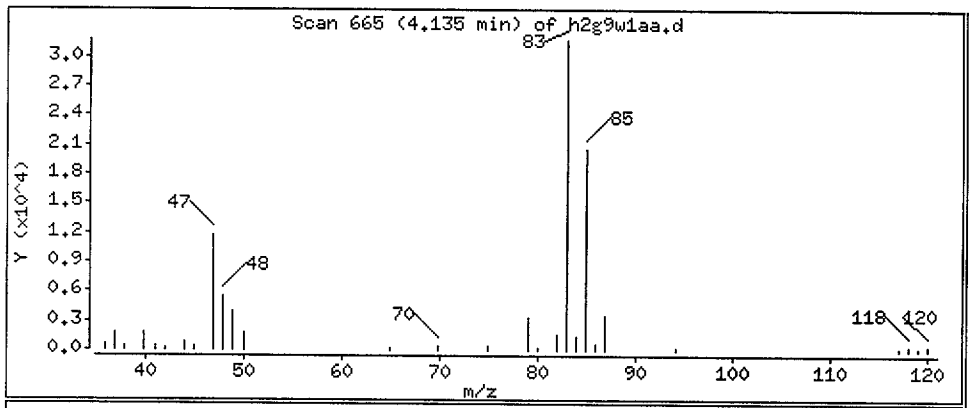
Operator: 22980

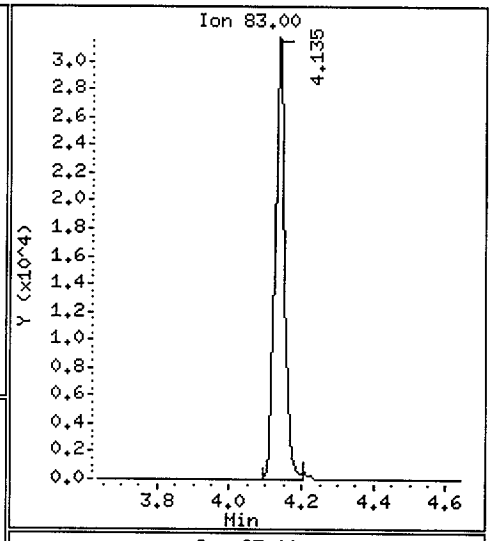
Column phase: J+W 624

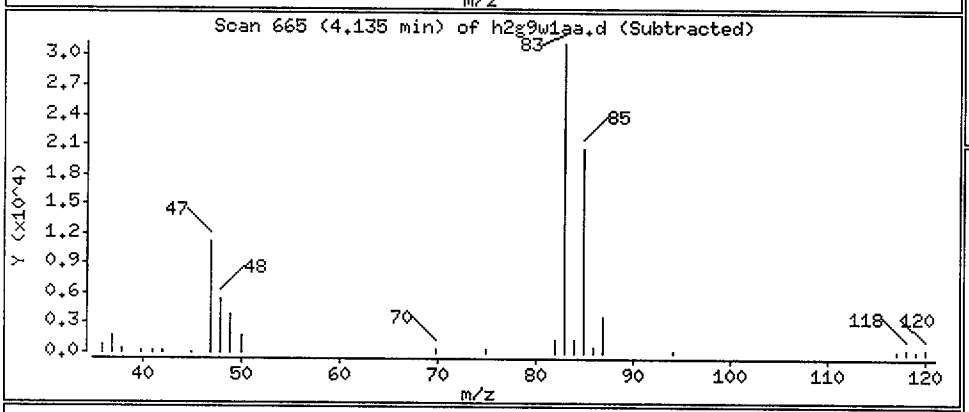
Column diameter: 0.18

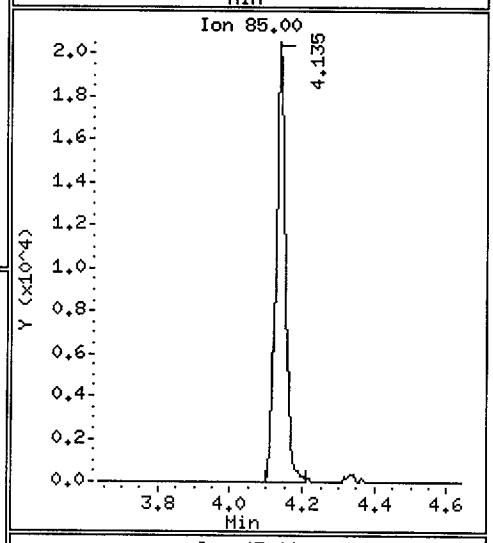
39 Chloroform (ccc)

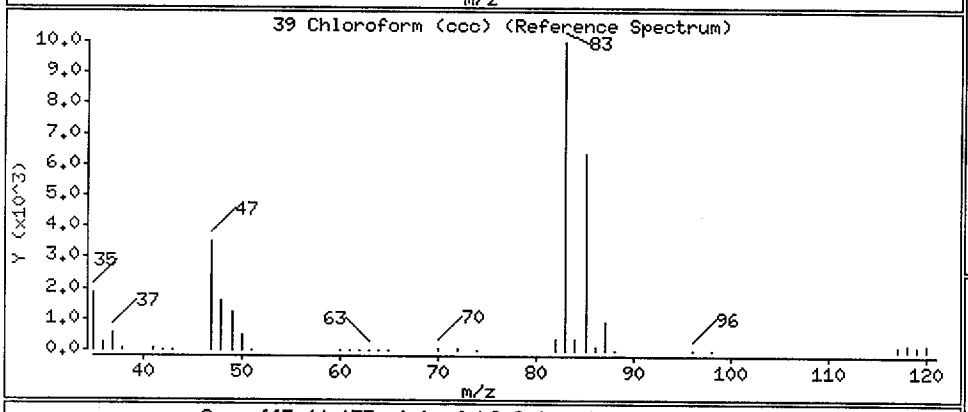
Concentration: 0.033126 ug

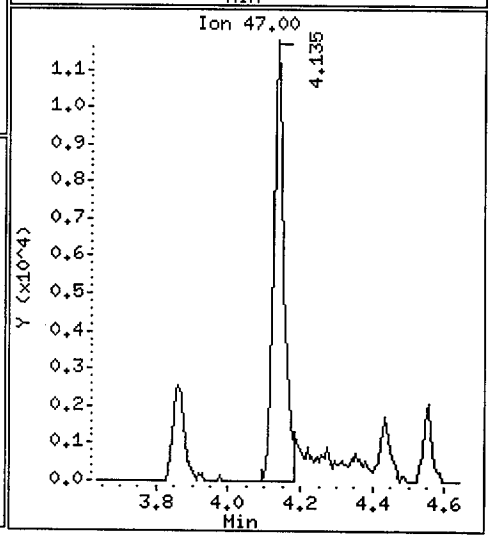


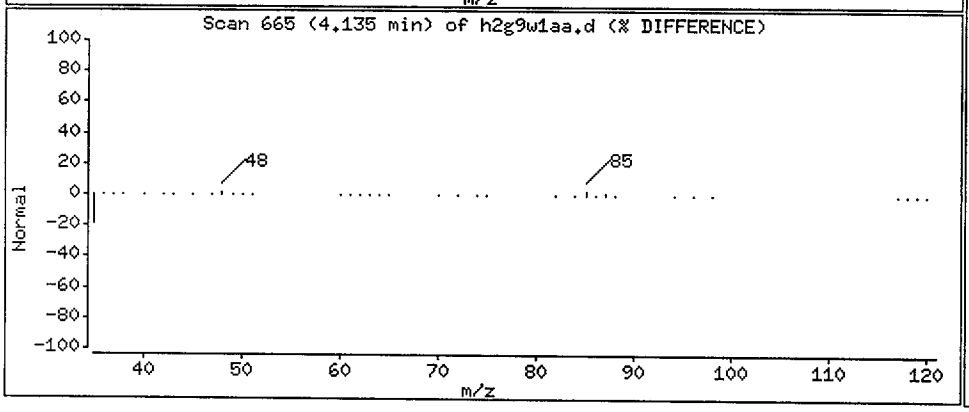












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

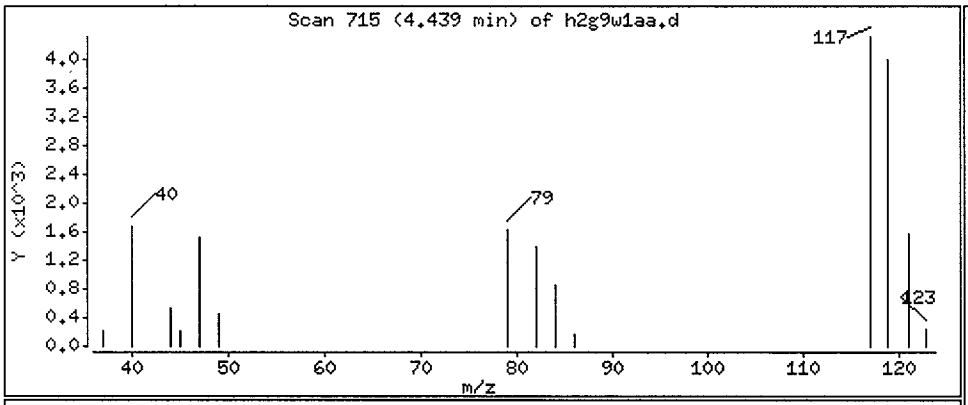
Operator: 22980

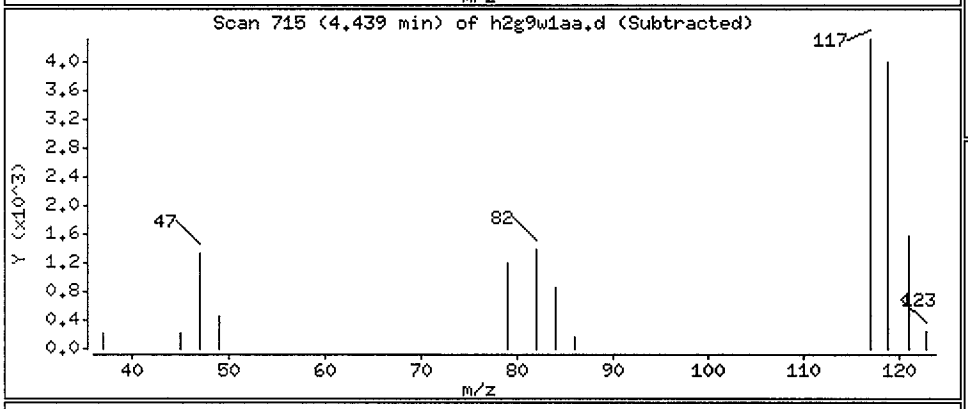
Column phase: J+W 624

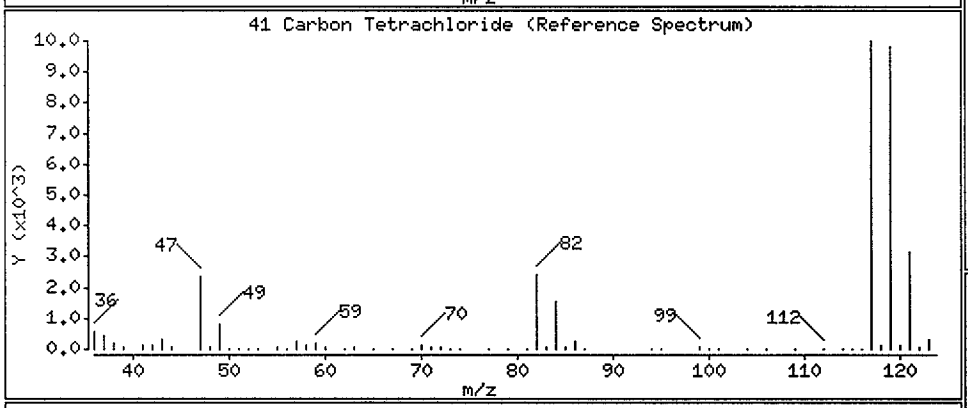
Column diameter: 0.18

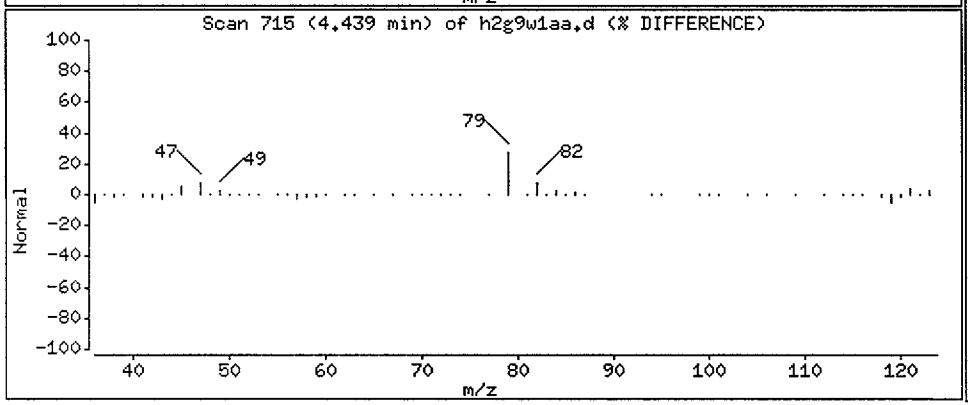
41 Carbon Tetrachloride

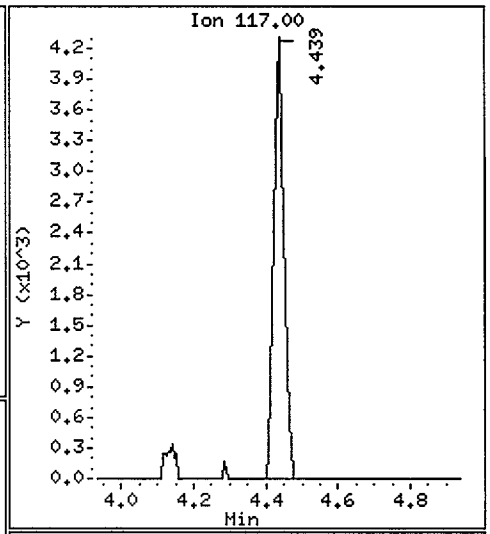
Concentration: 0.0048852 ug

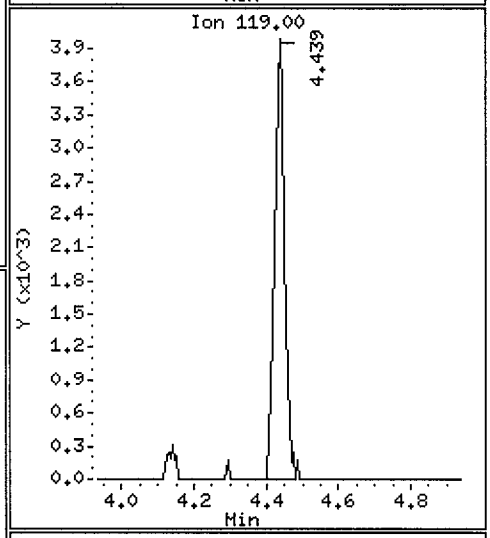


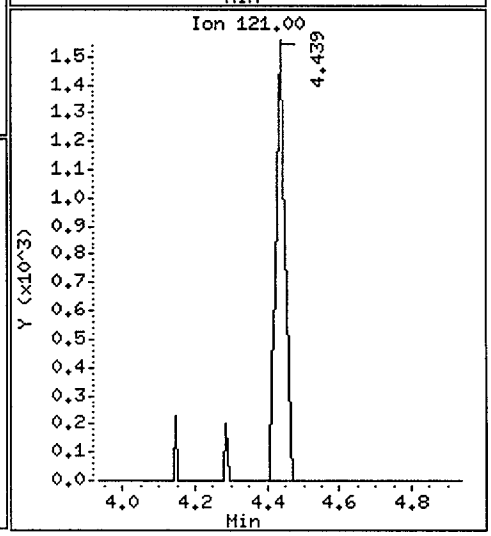












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

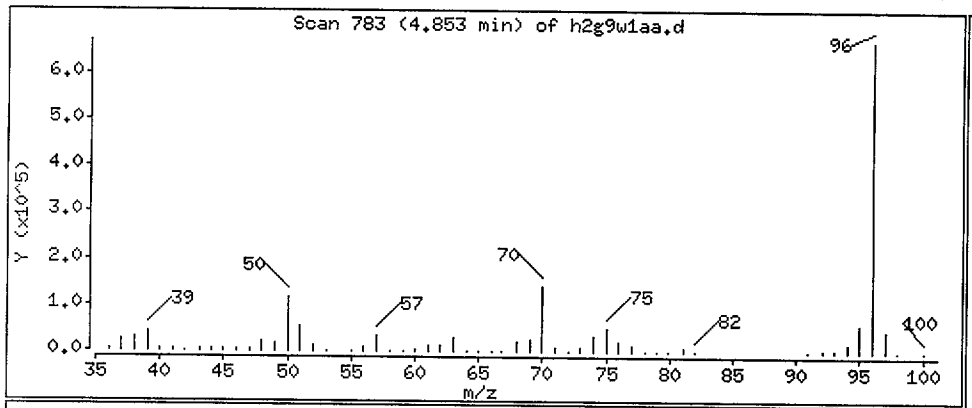
Operator: 22980

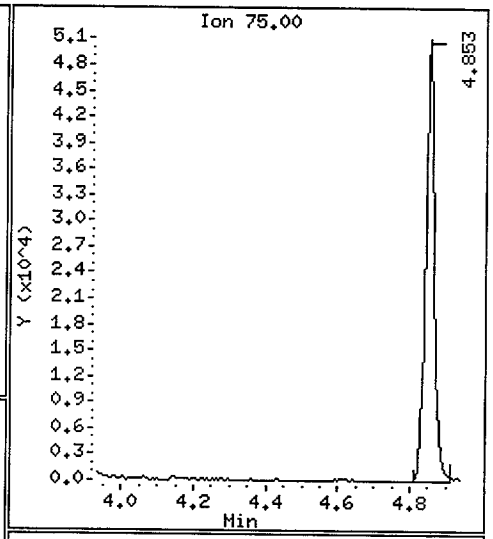
Column phase: J+W 624

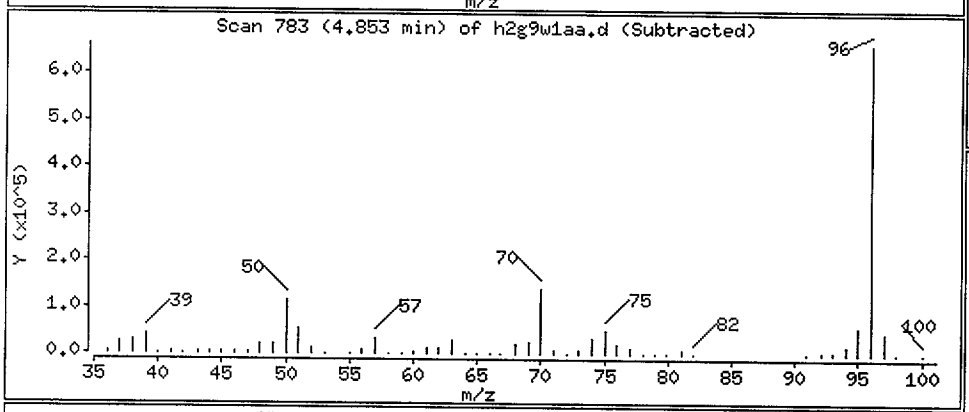
Column diameter: 0.18

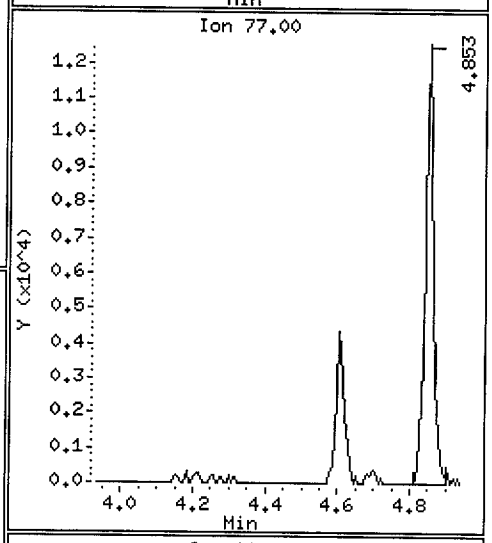
42 1,1-Dichloropropene

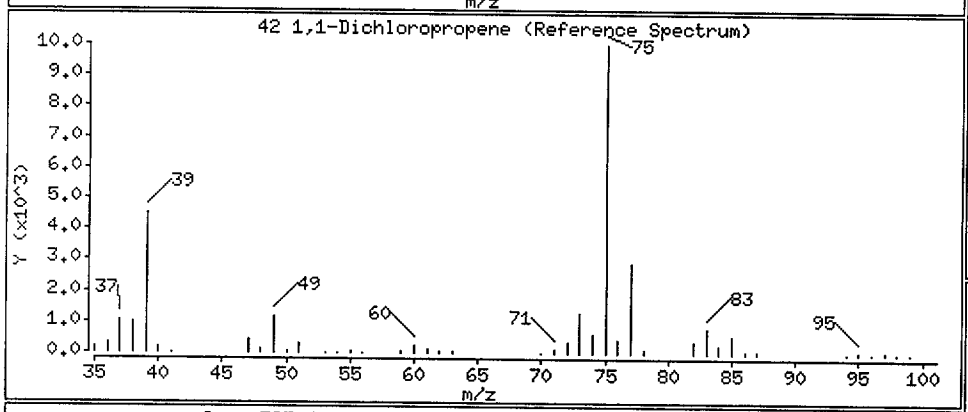
Concentration: 0.048533 ug

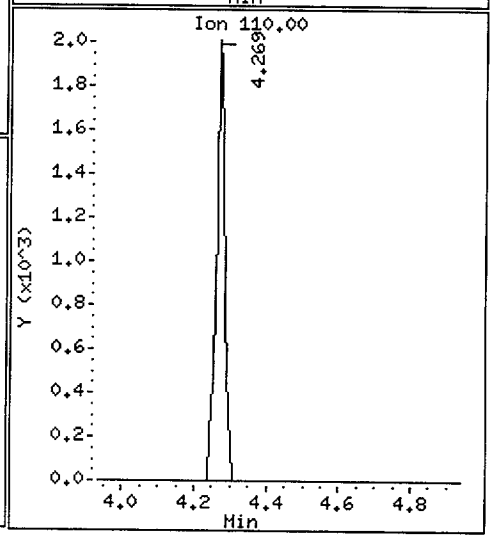


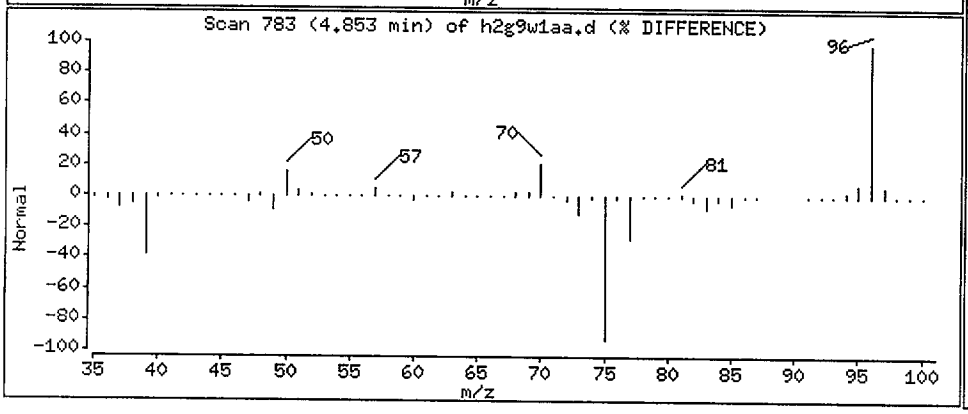












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

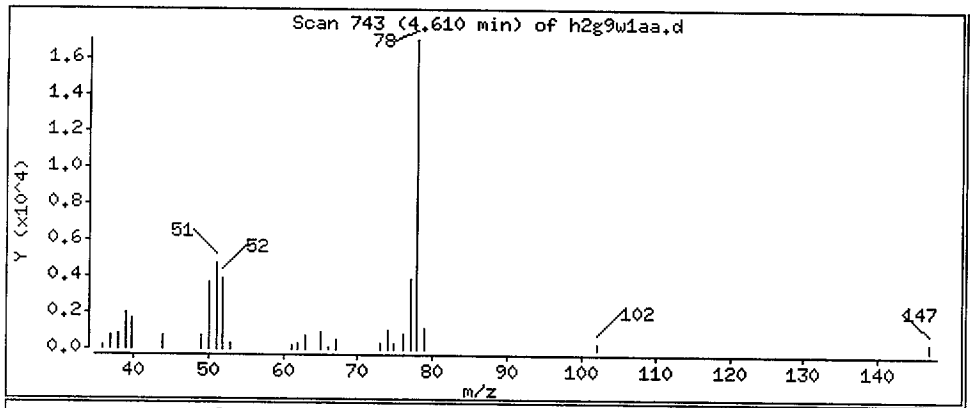
Operator: 22980

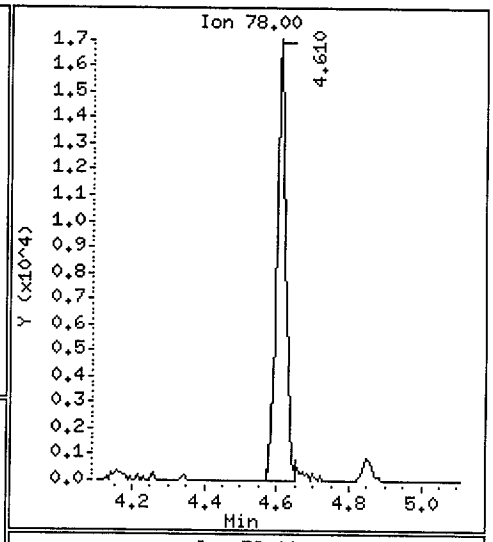
Column phase: J+W 624

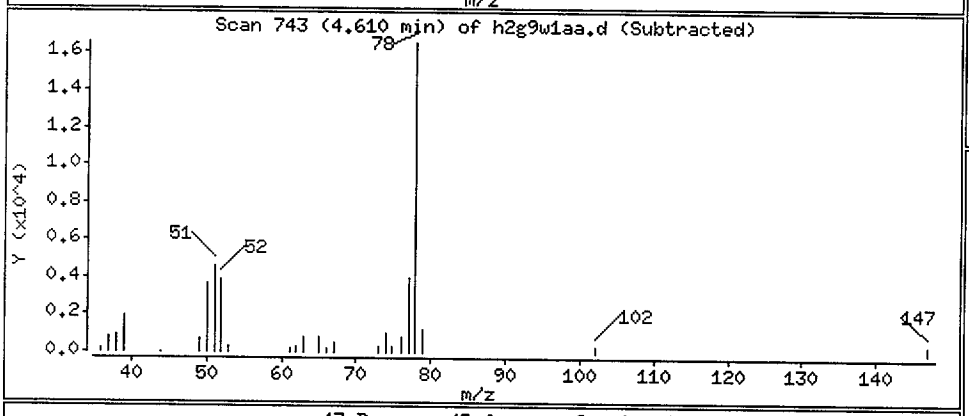
Column diameter: 0.18

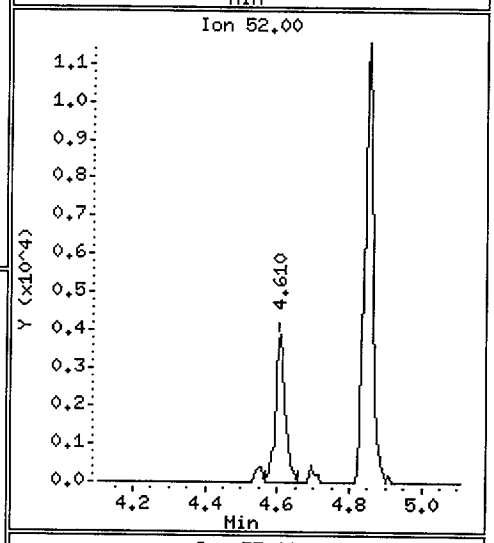
43 Benzene

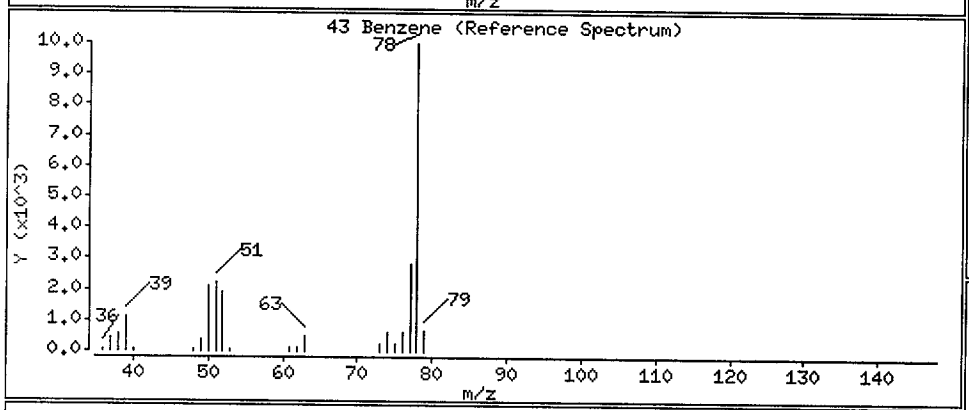
Concentration: 0.0062440 ug

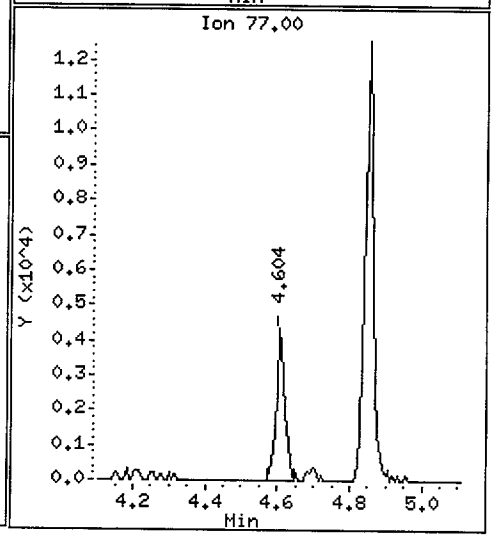


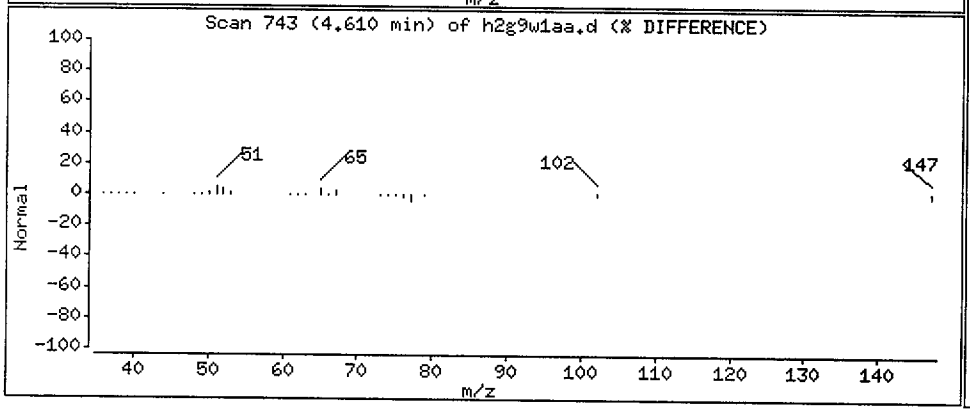












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

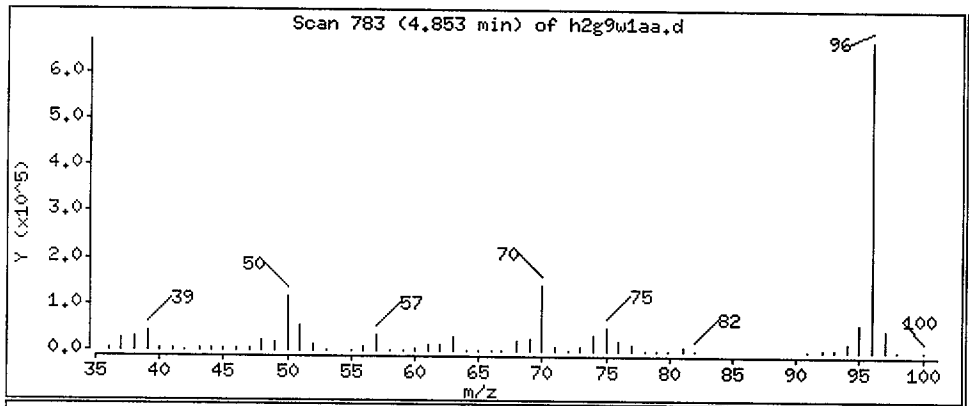
Operator: 22980

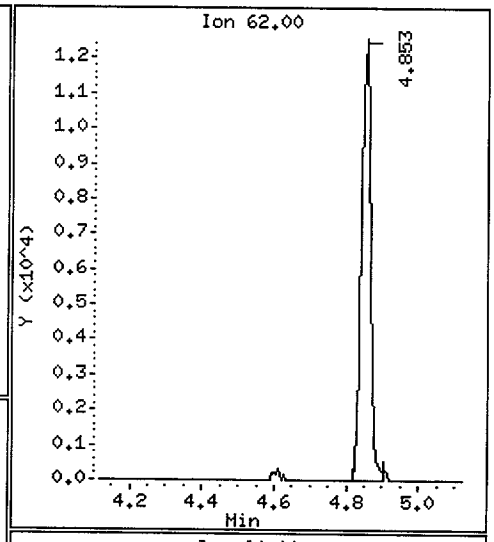
Column phase: J+W 624

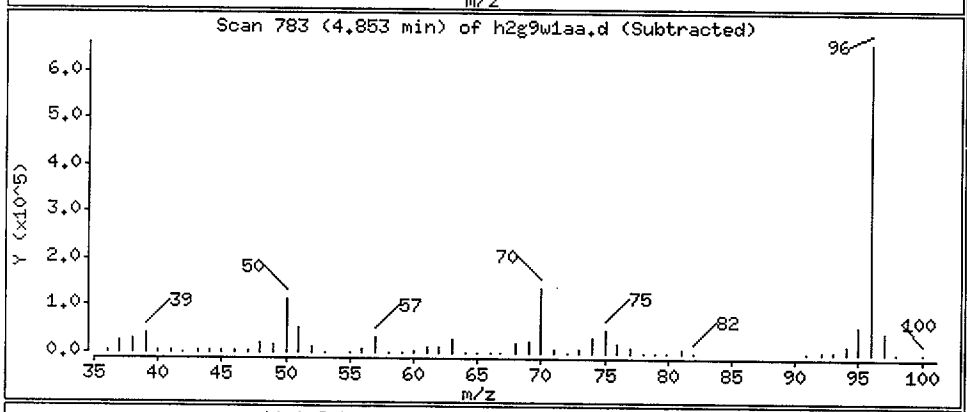
Column diameter: 0.18

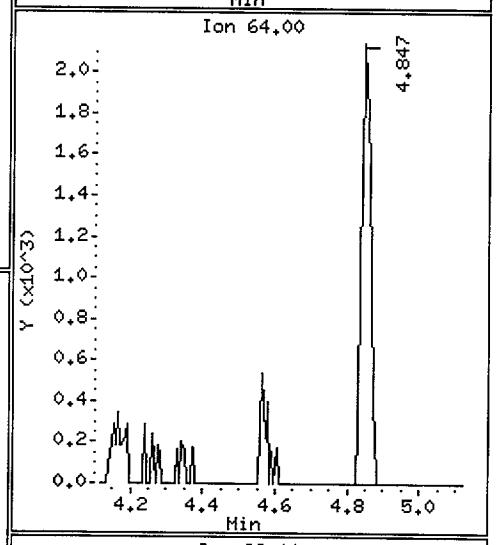
44 1,2-Dichloroethane

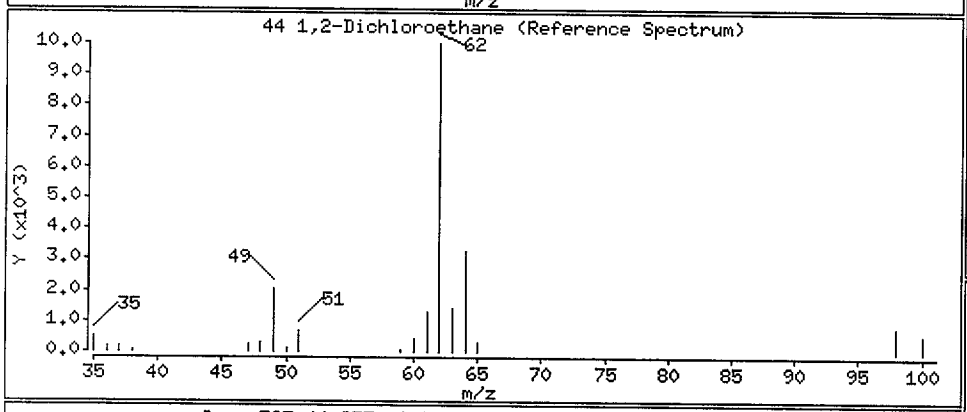
Concentration: 0.026526 ug

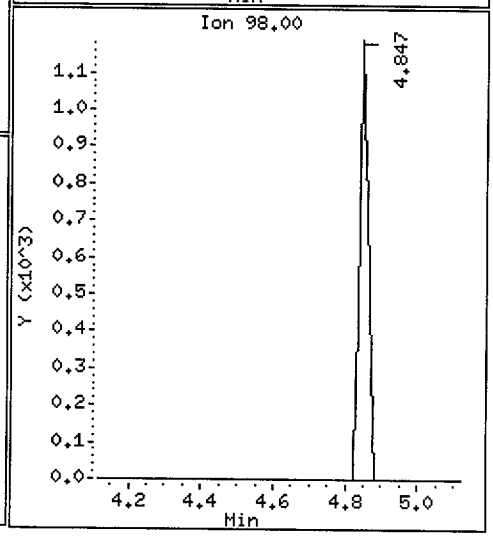


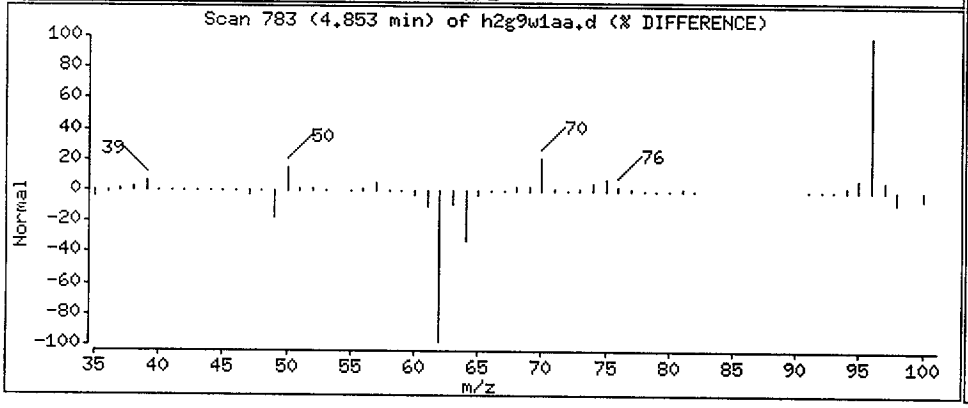












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

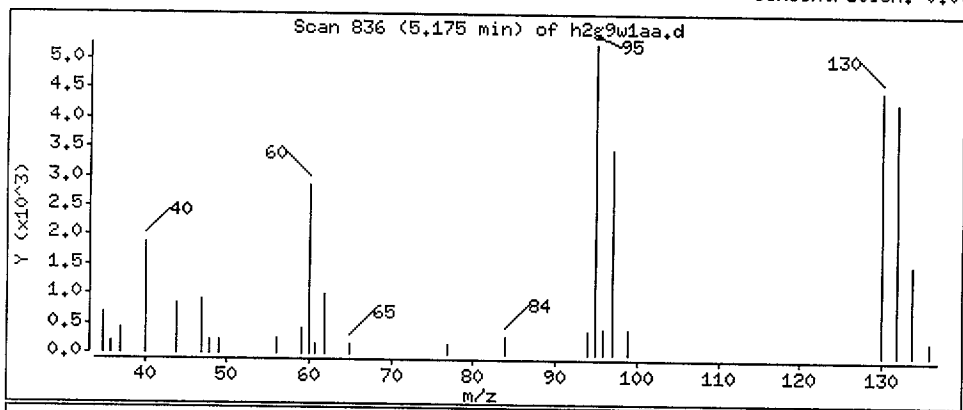
Operator: 22980

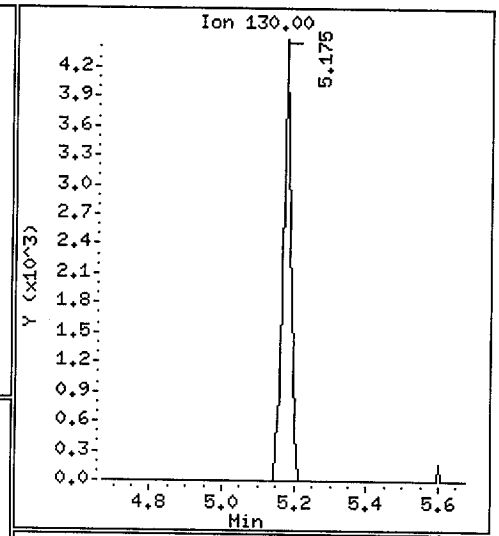
Column phase: J+W 624

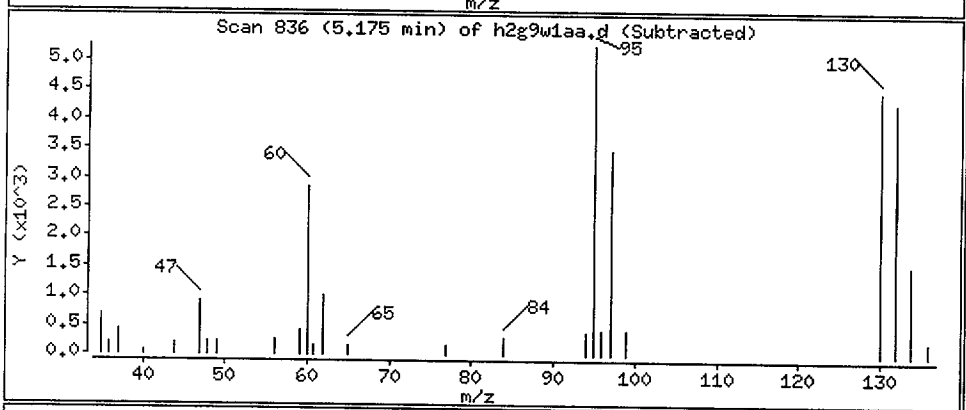
Column diameter: 0.18

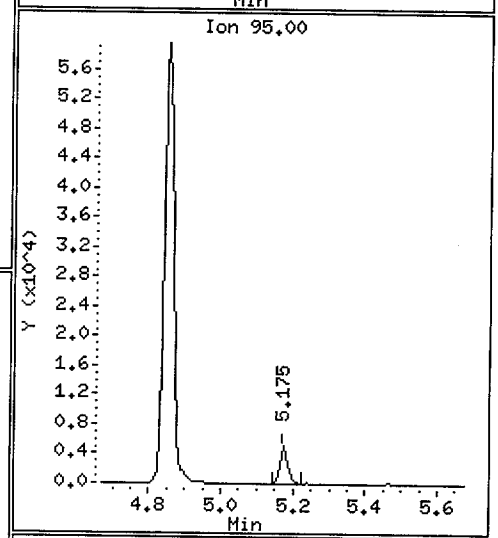
45 Trichloroethene

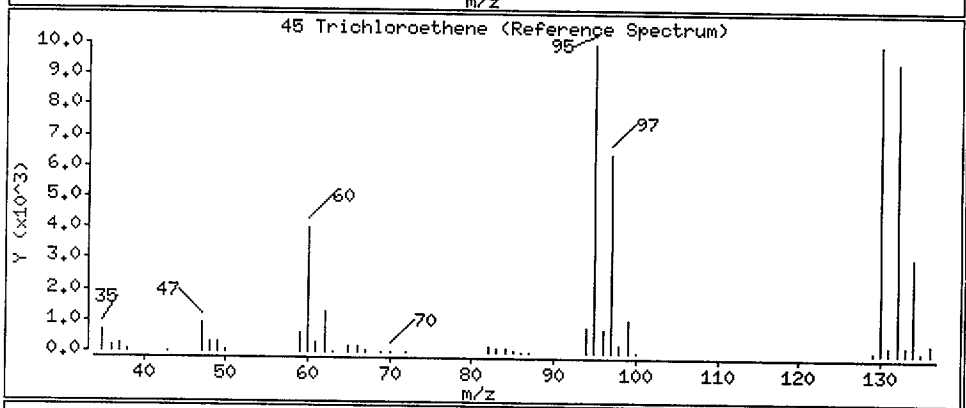
Concentration: 0.0053066 ug

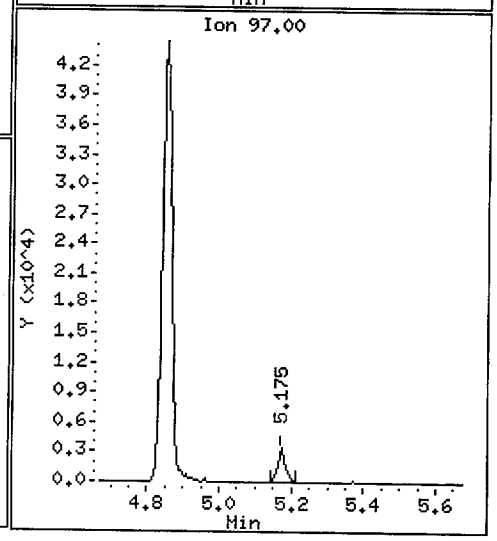


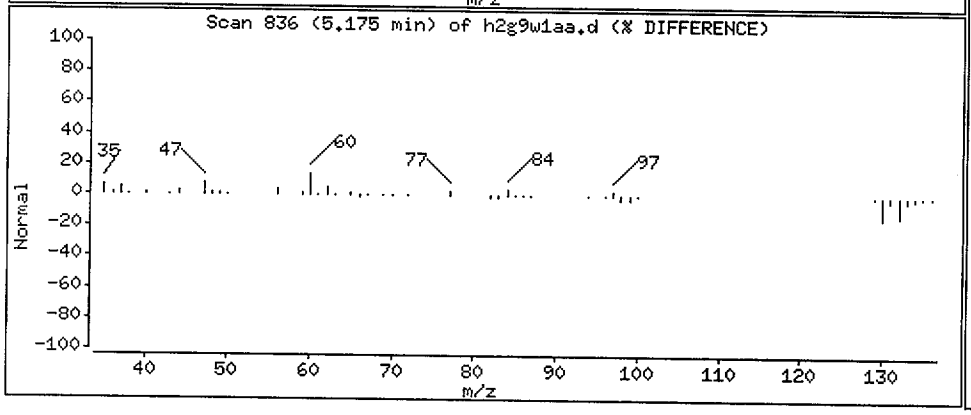












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

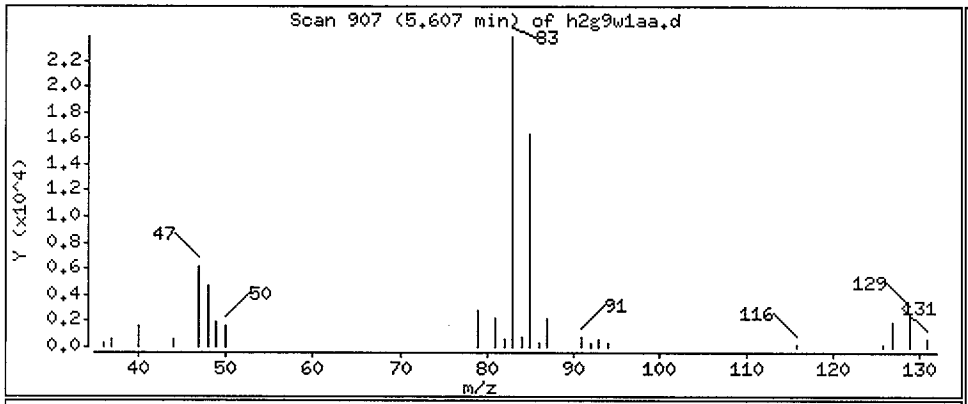
Operator: 22980

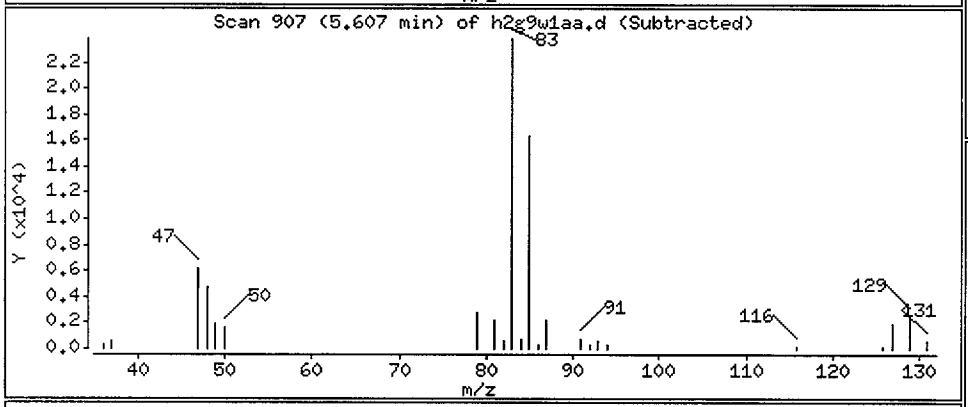
Column phase: J+W 624

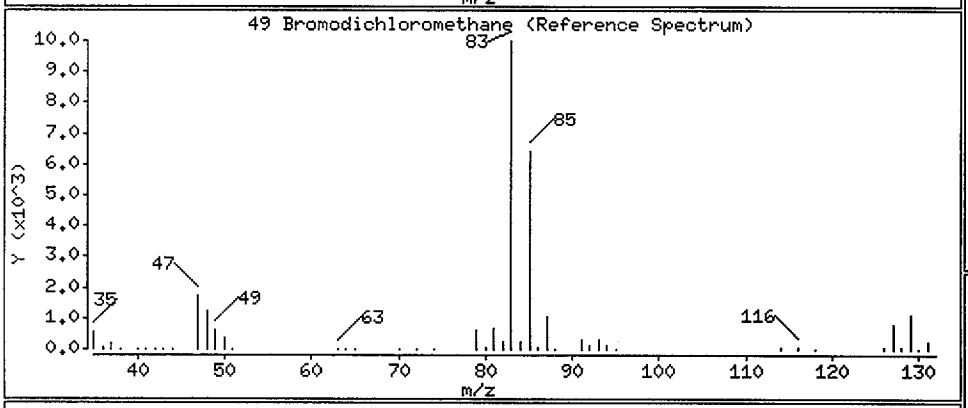
Column diameter: 0.18

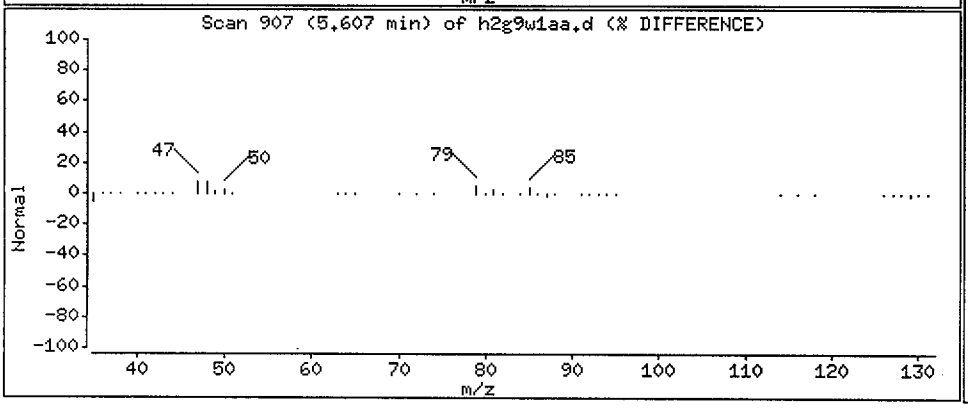
49 Bromodichloromethane

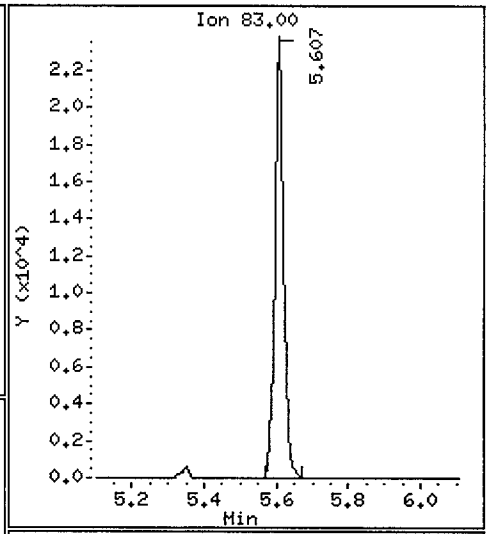
Concentration: 0.040176 ug

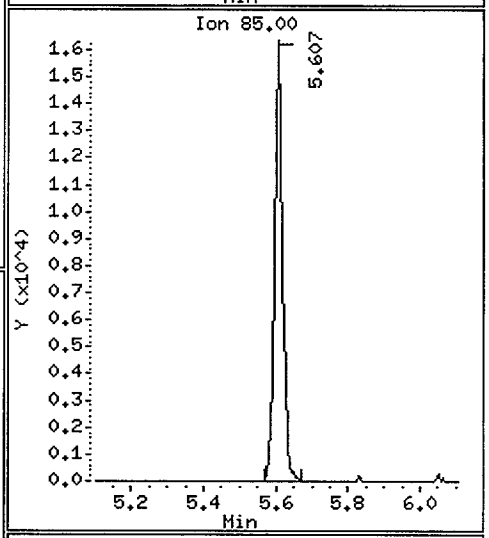


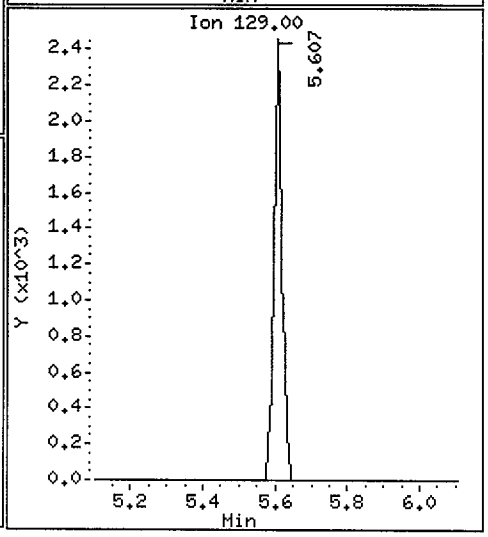












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

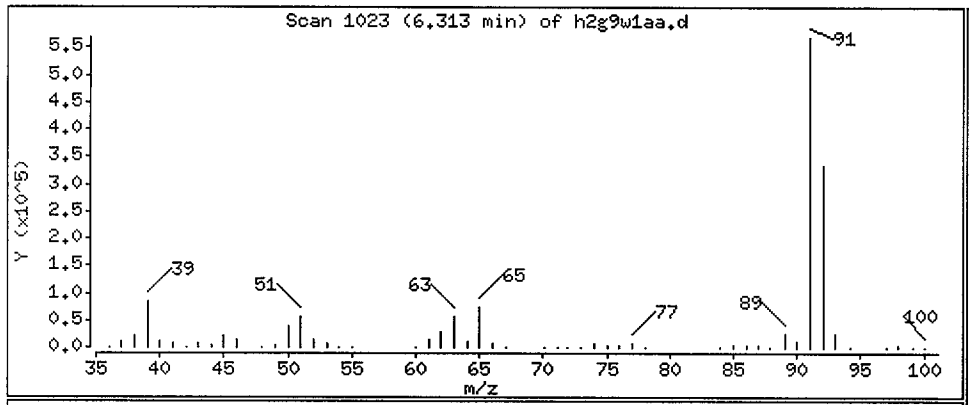
Operator: 22980

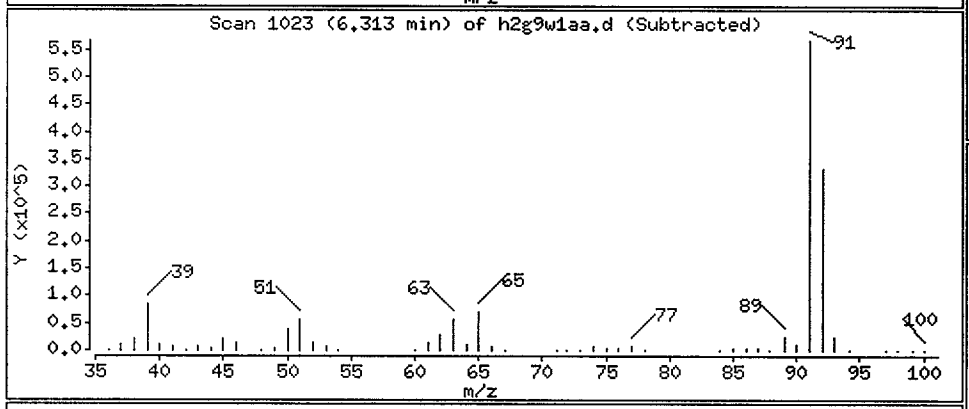
Column phase: J+W 624

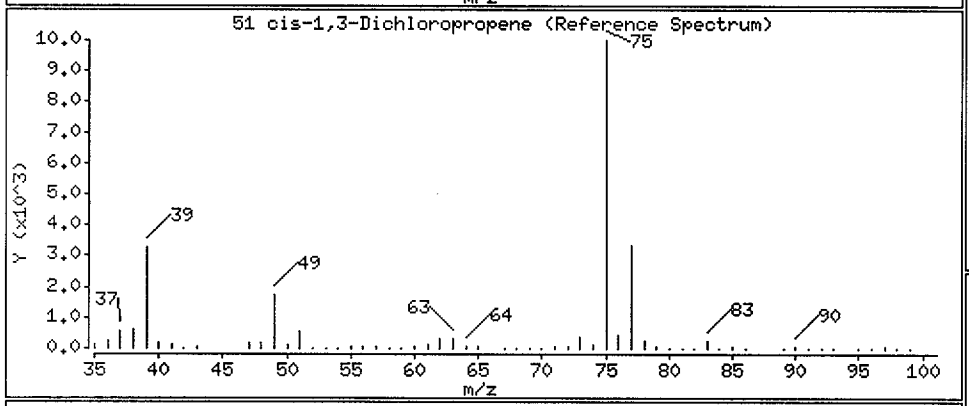
Column diameter: 0.18

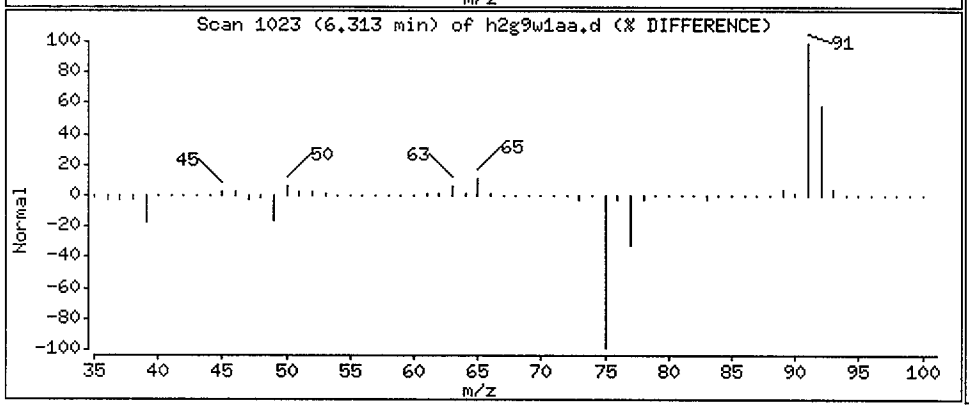
51 cis-1,3-Dichloropropene

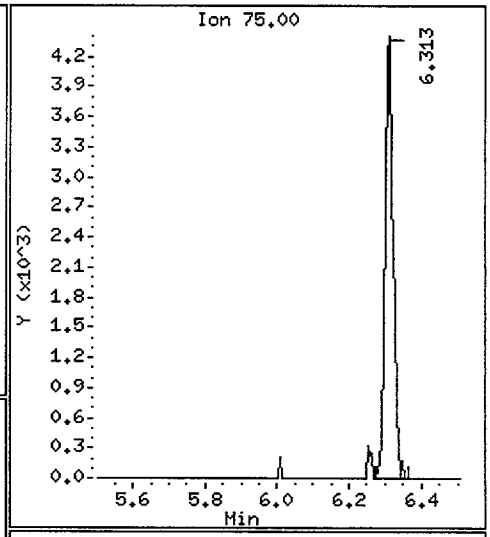
Concentration: 0.0059149 ug

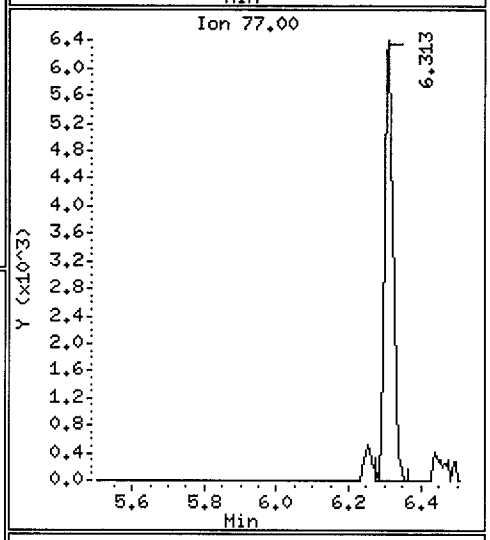


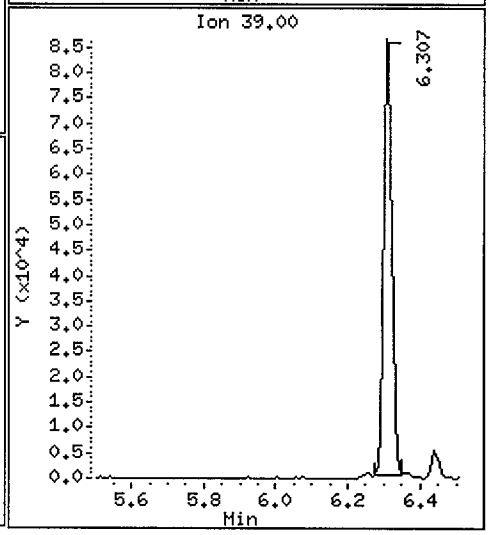












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

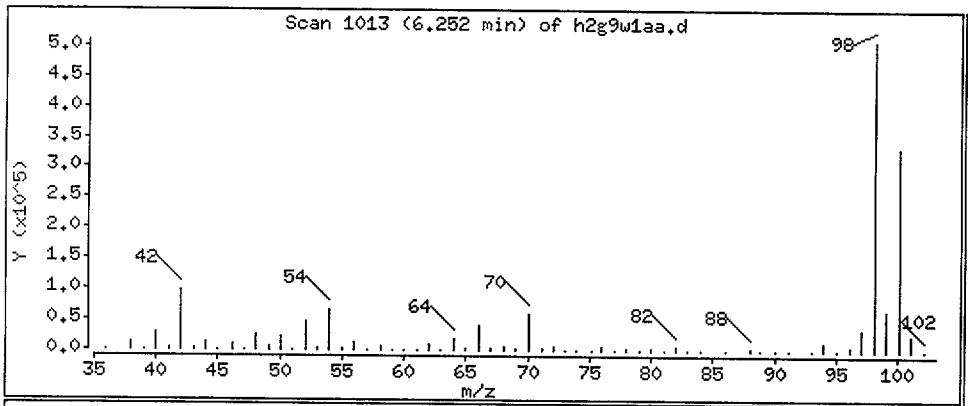
Operator: 22980

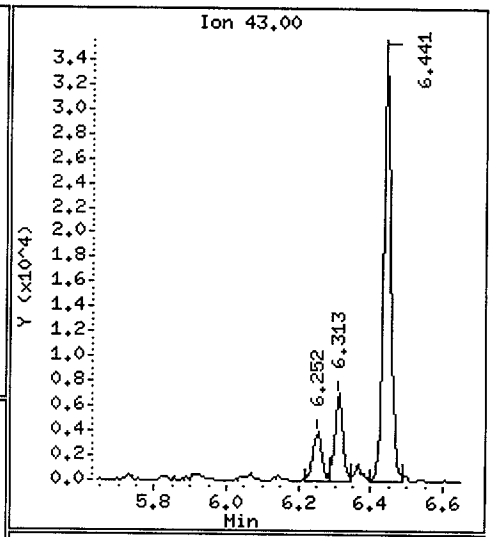
Column phase: J+W 624

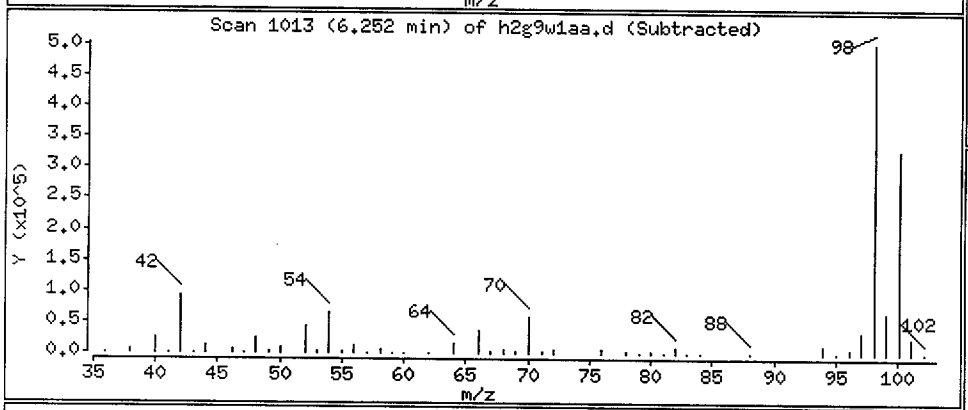
Column diameter: 0.18

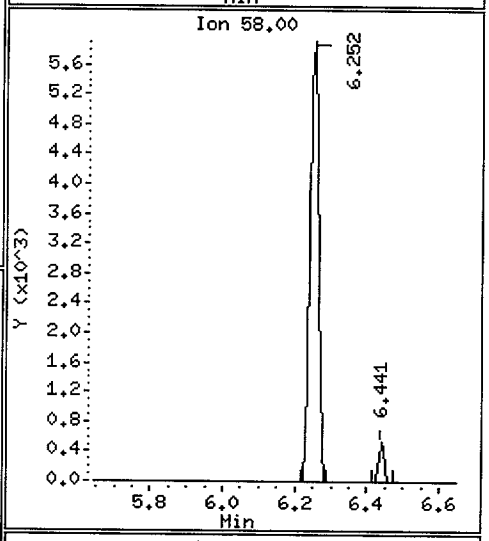
52 4-Methyl-2-pentanone

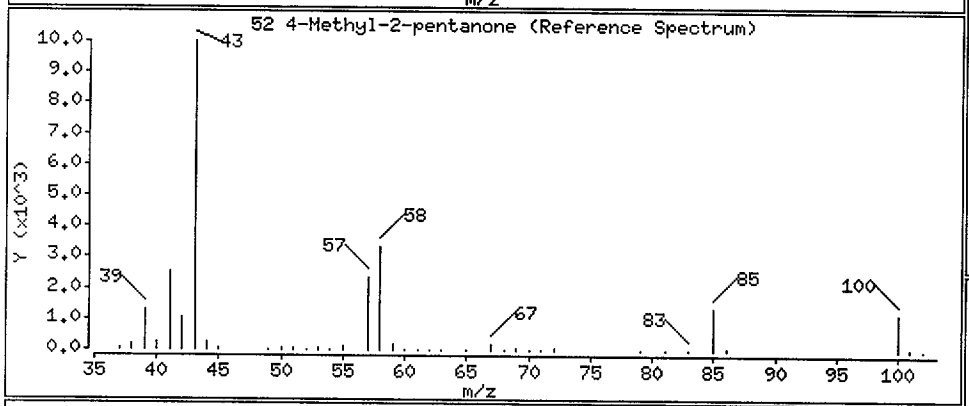
Concentration: 0.027596 ug

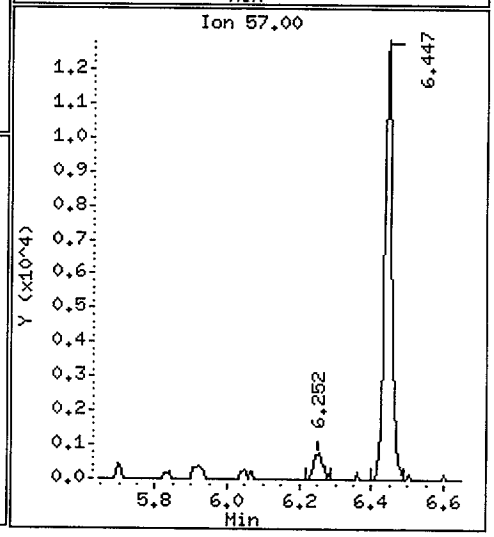


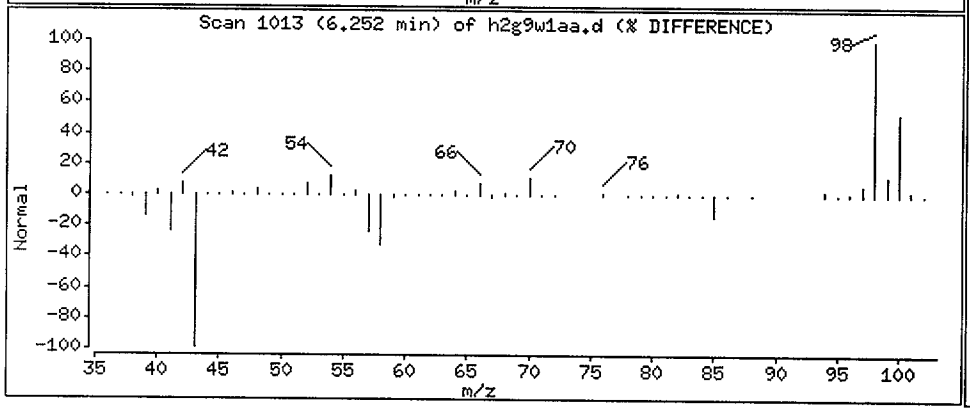












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

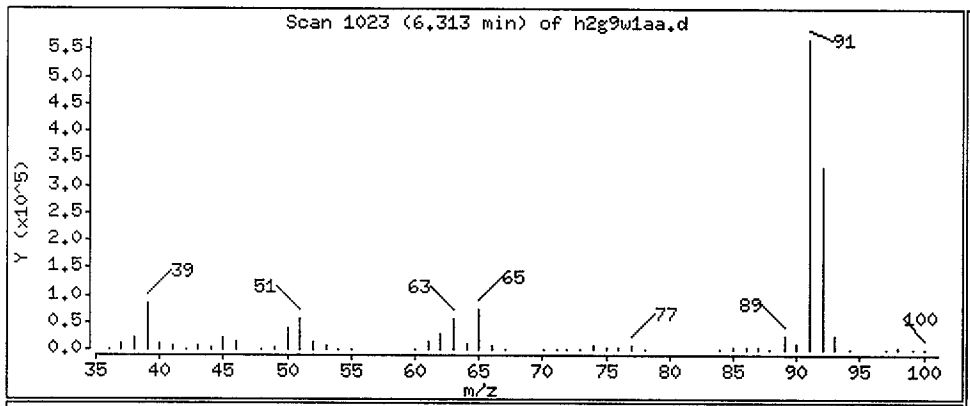
Operator: 22980

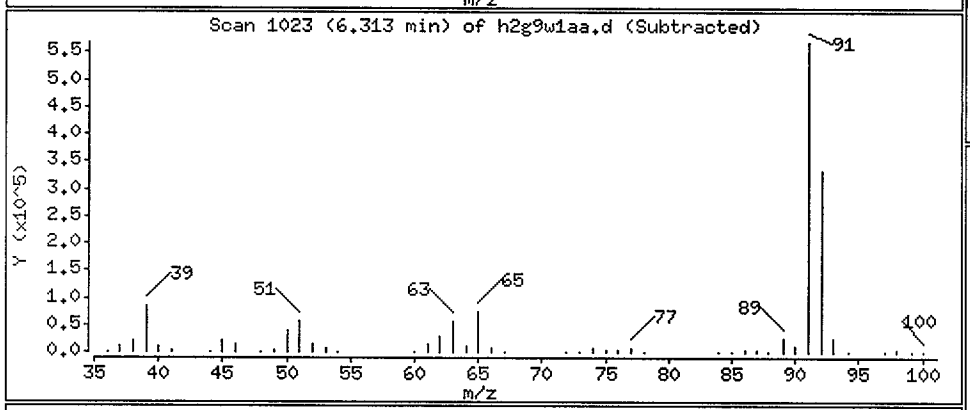
Column phase: J+W 624

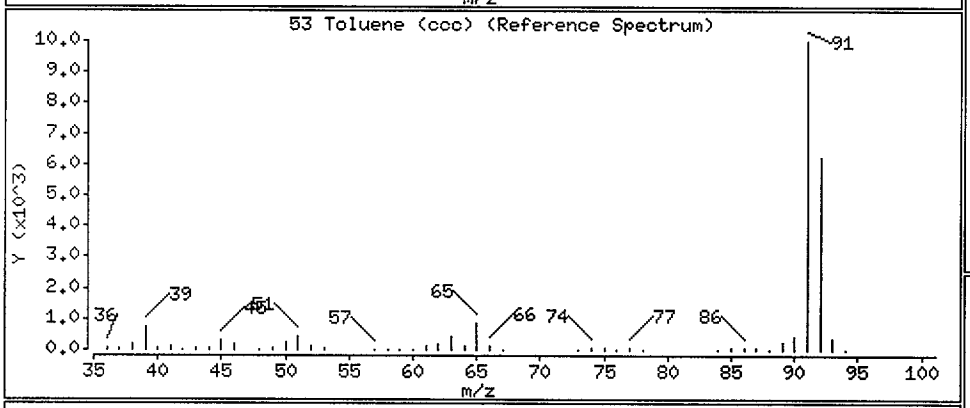
Column diameter: 0.18

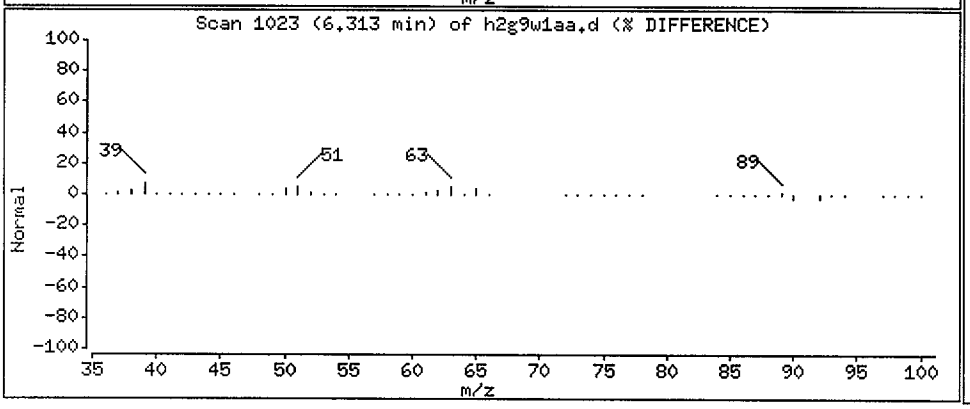
53 Toluene (ccc)

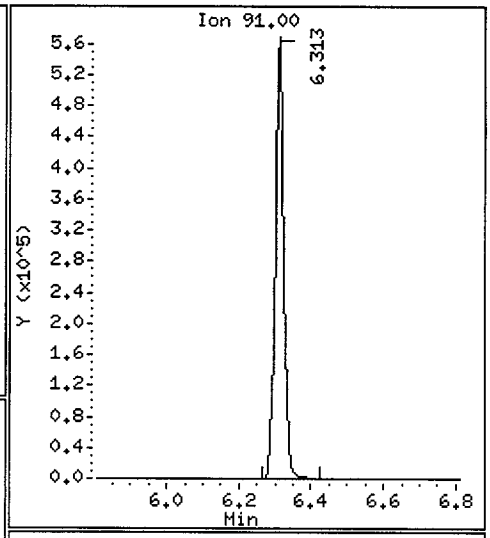
Concentration: 0.17216 ug

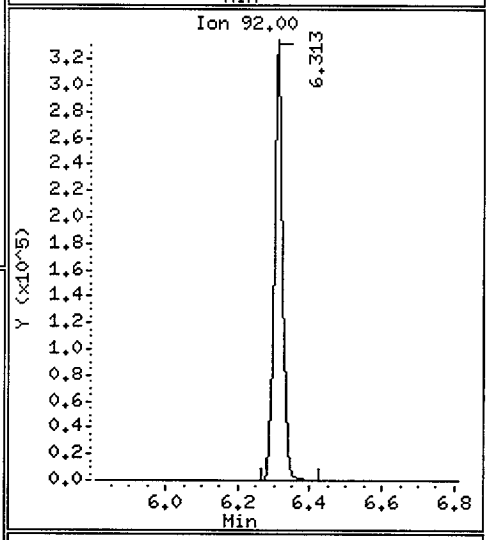


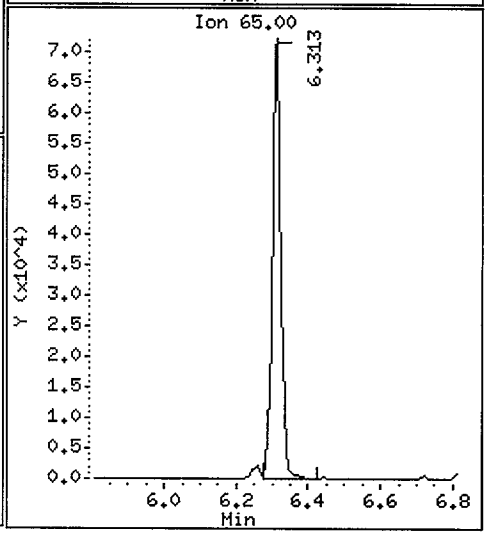












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

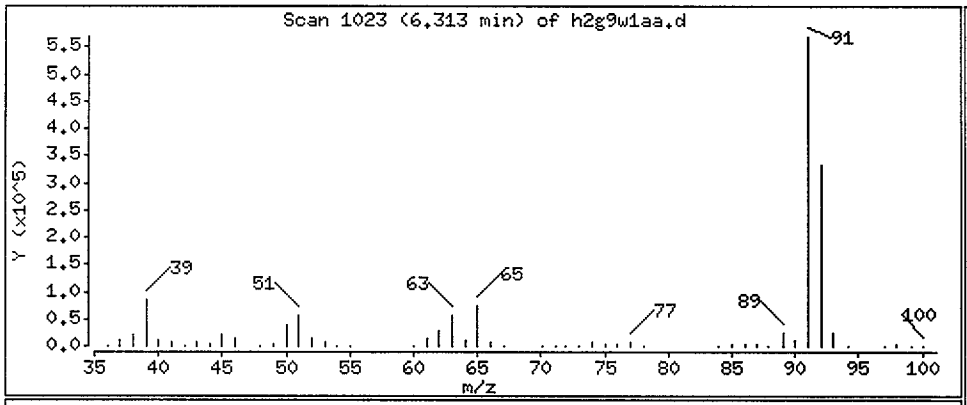
Operator: 22980

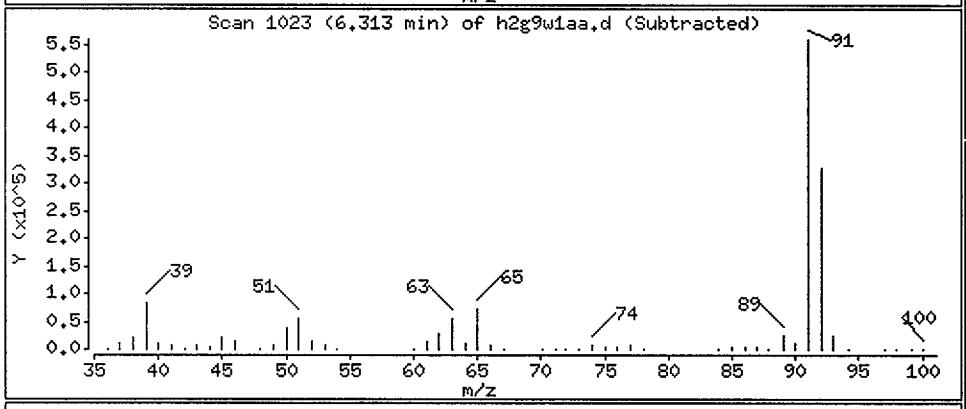
Column phase: J+W 624

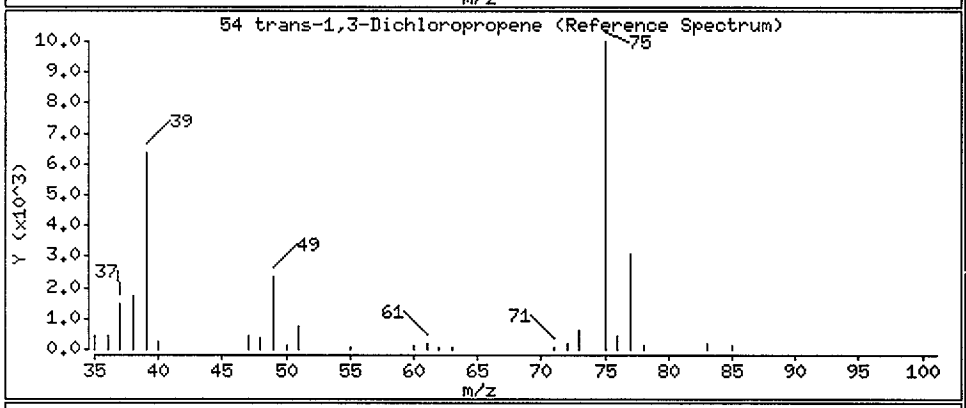
Column diameter: 0.18

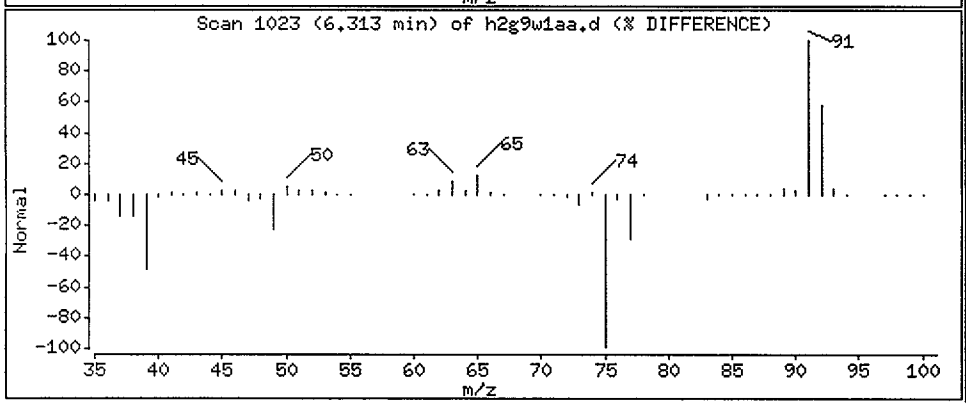
54 trans-1,3-Dichloropropene

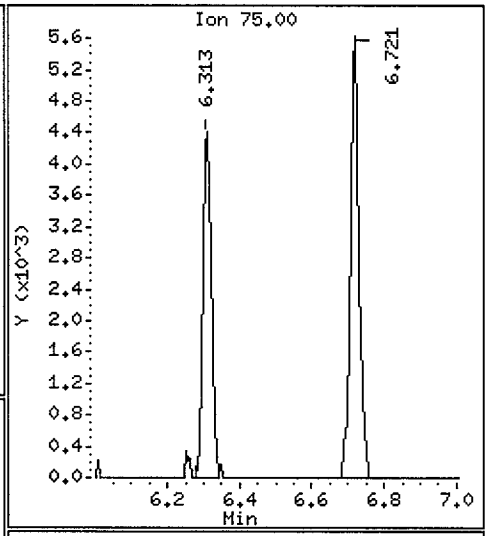
Concentration: 0.0072080 ug

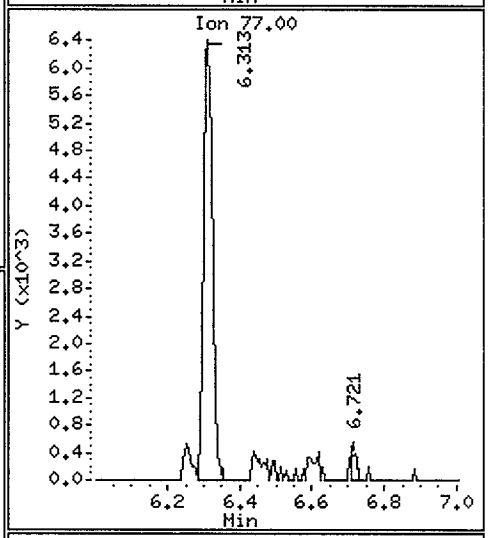


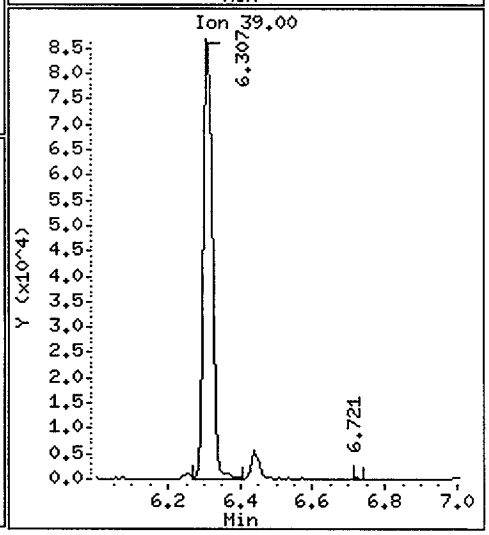












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

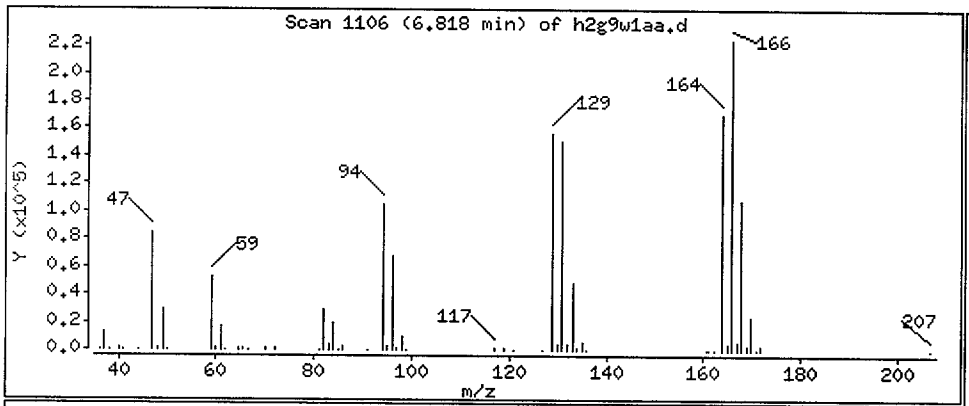
Operator: 22980

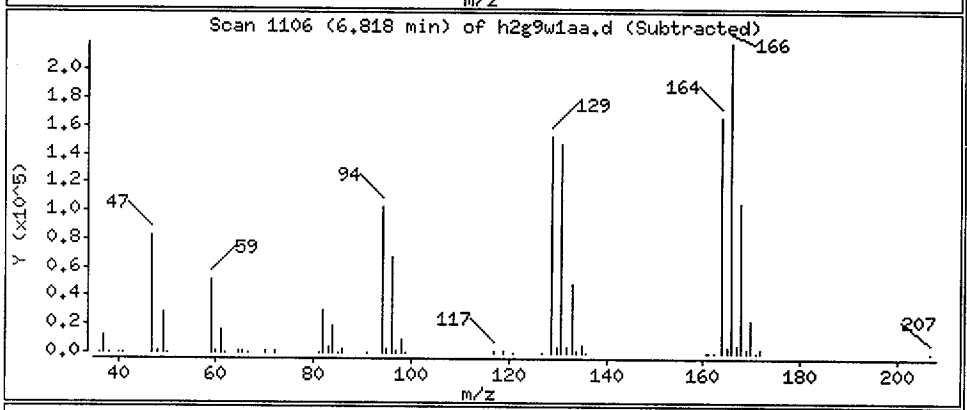
Column phase: J+W 624

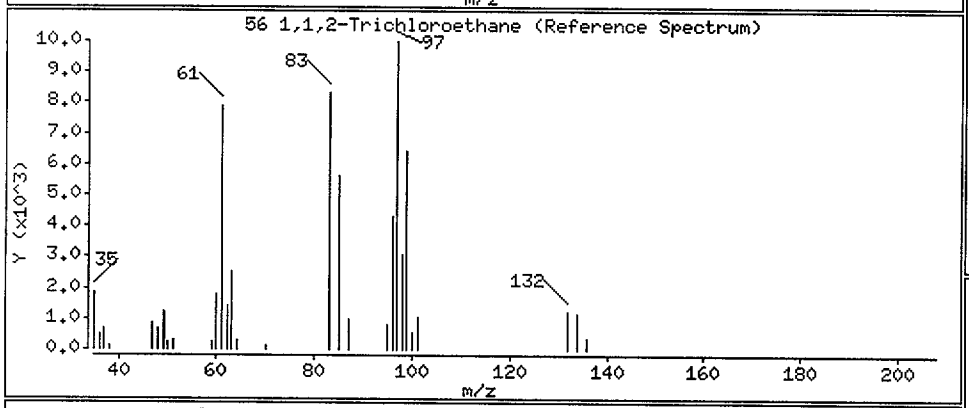
Column diameter: 0.18

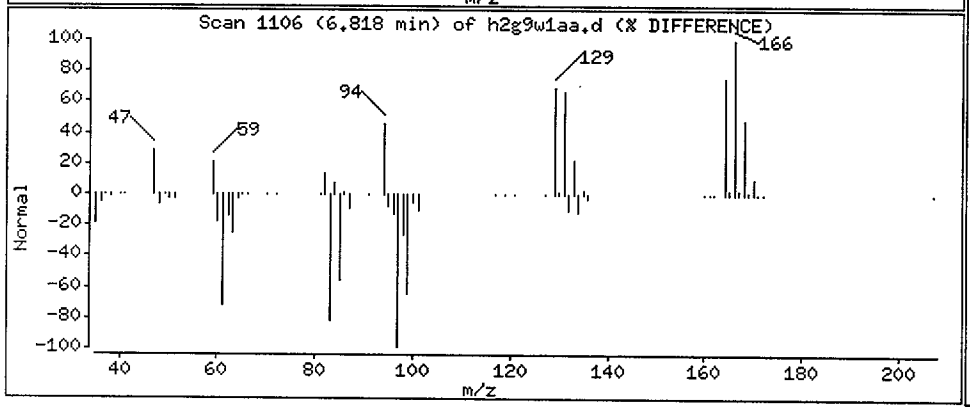
56 1,1,2-Trichloroethane

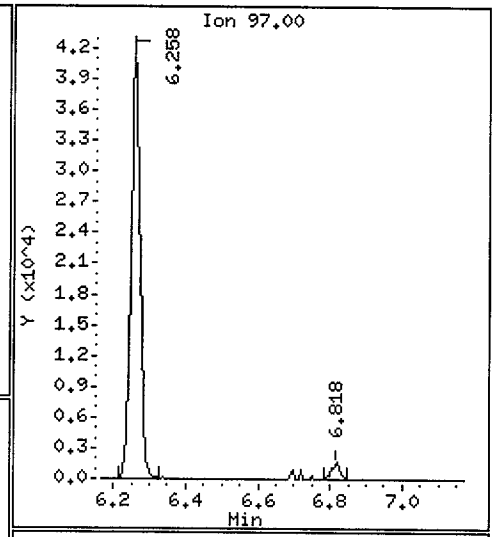
Concentration: 0.0062201 ug

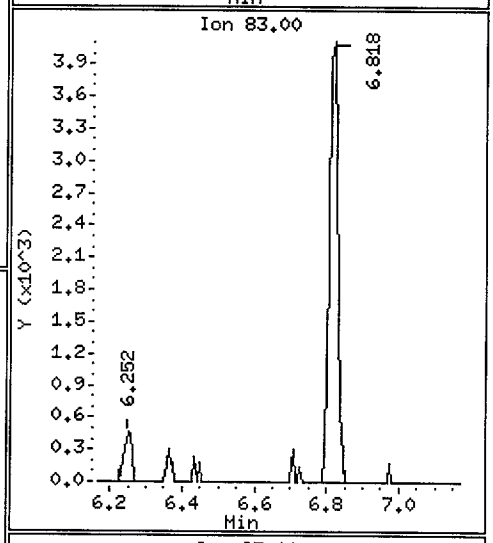


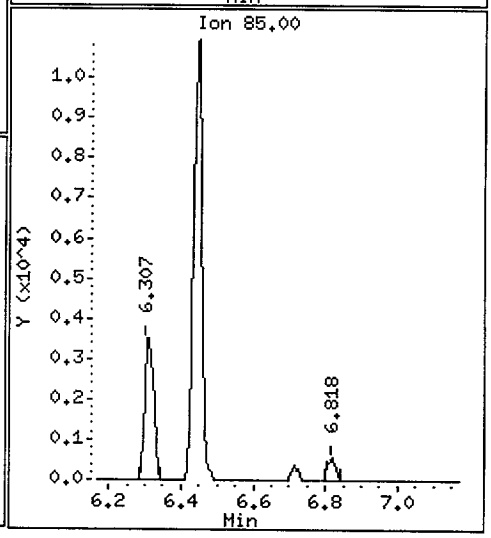












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

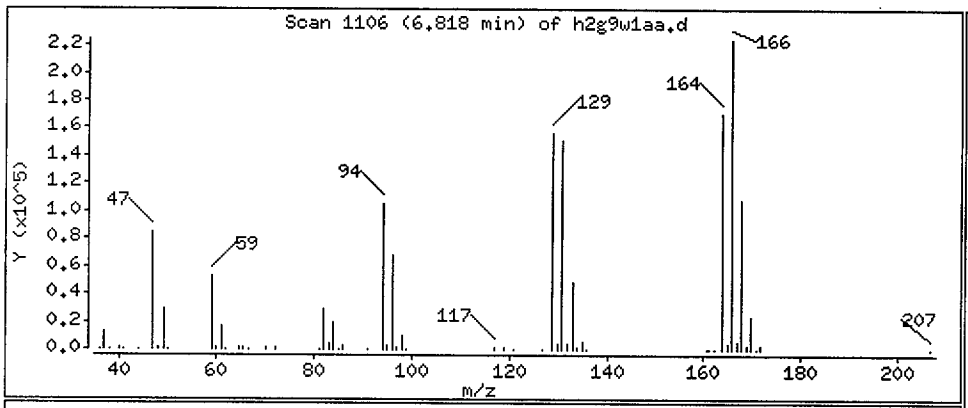
Operator: 22980

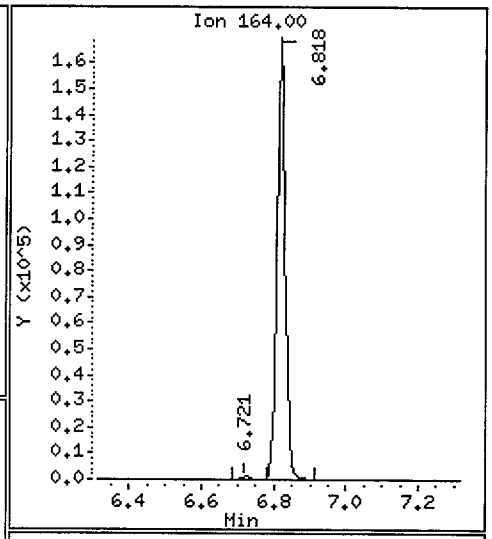
Column phase: J+W 624

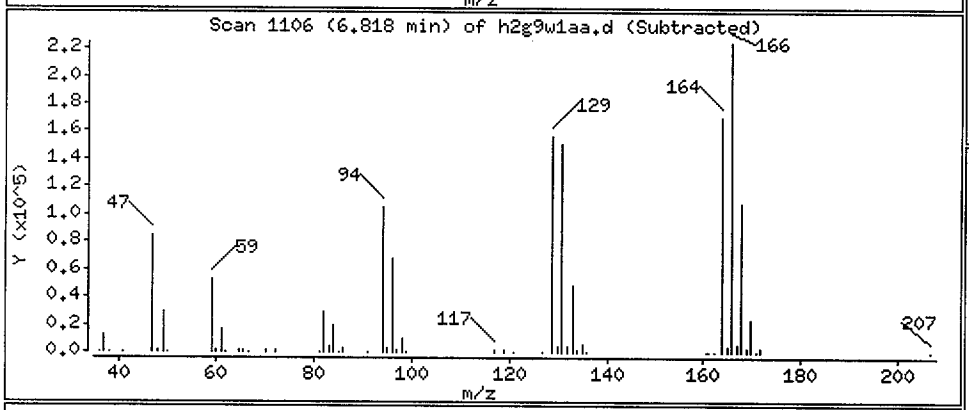
Column diameter: 0.18

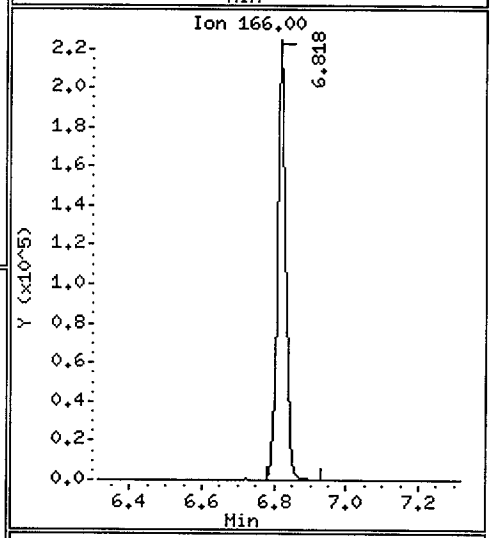
57 Tetrachloroethene

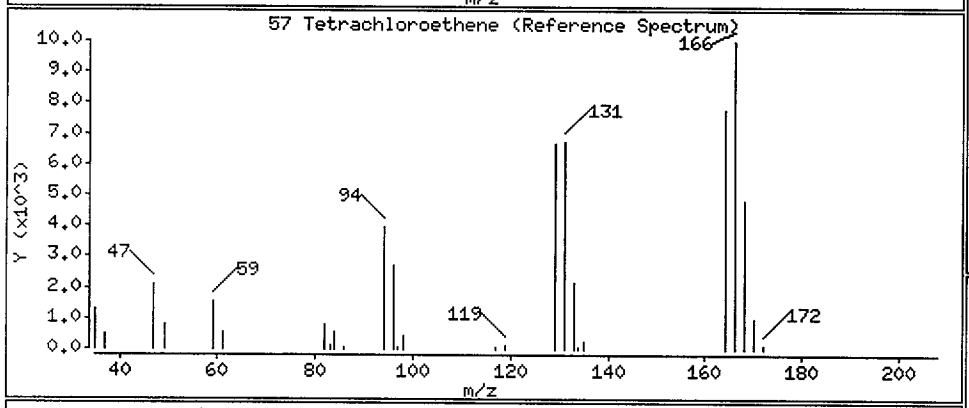
Concentration: 0.23179 ug

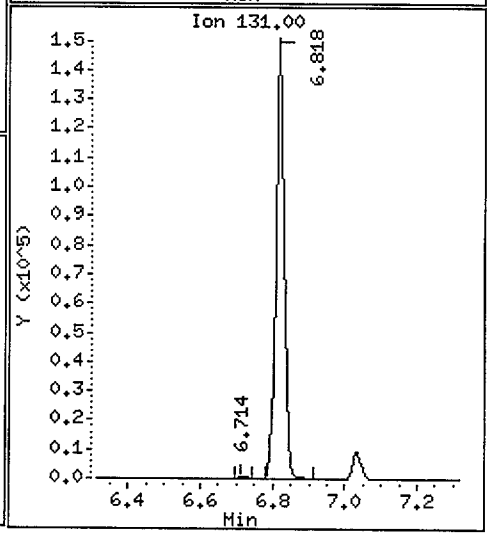


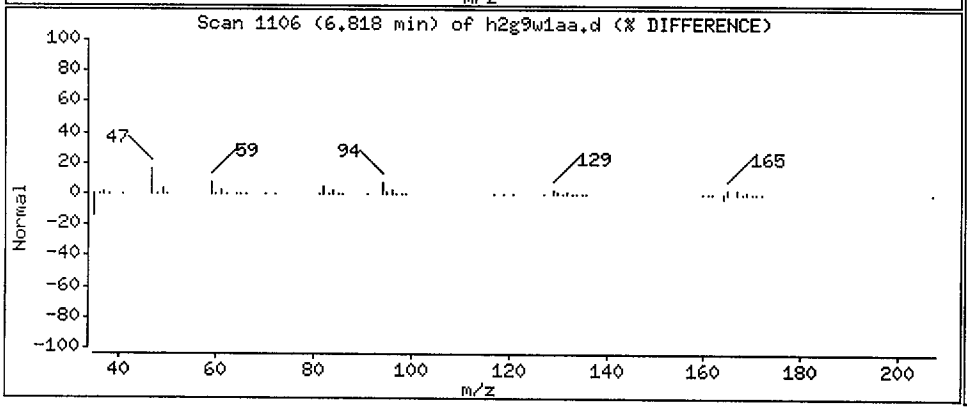












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

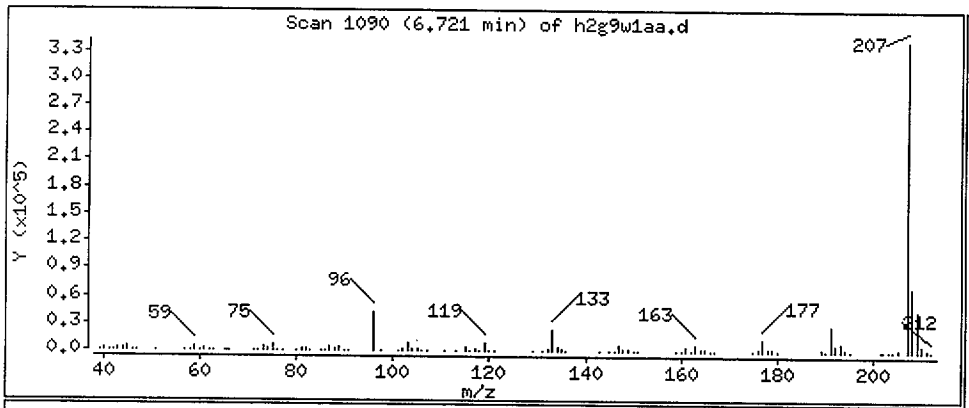
Operator: 22980

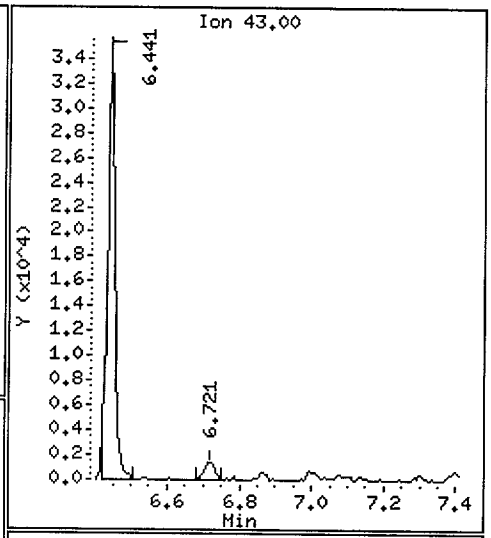
Column phase: J+W 624

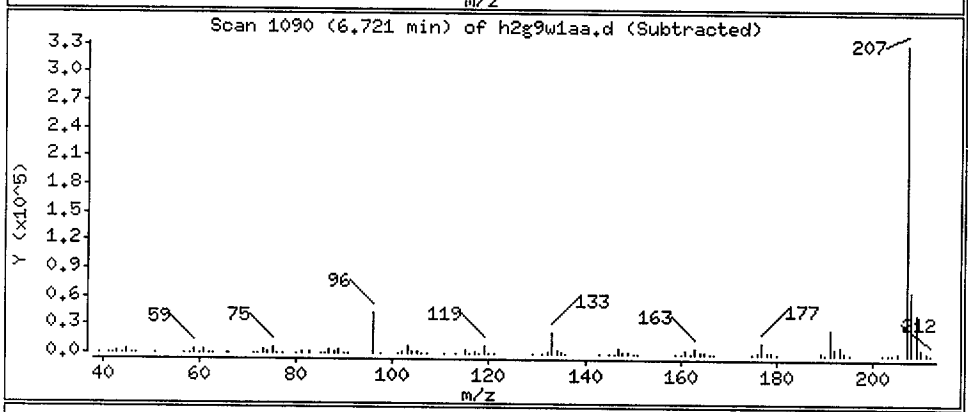
Column diameter: 0.18

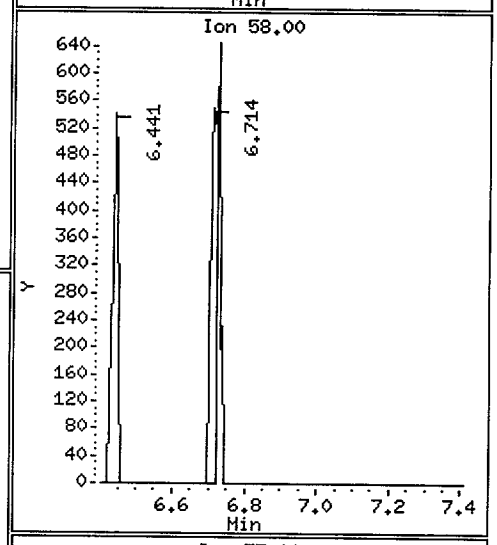
59 2-Hexanone

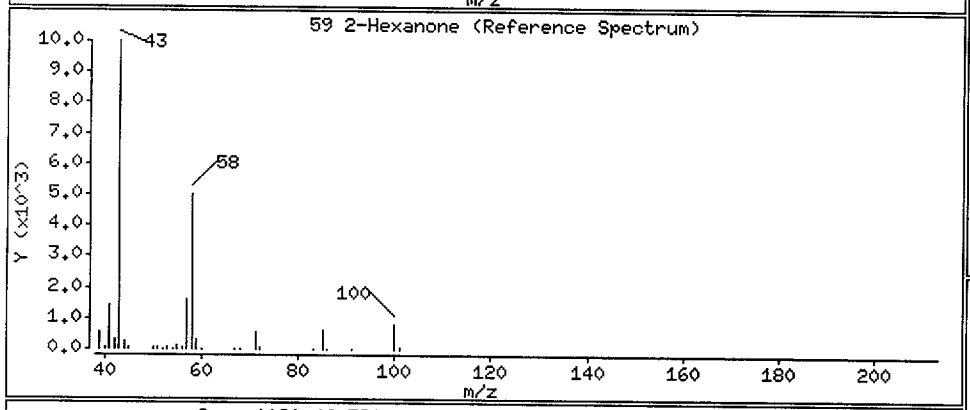
Concentration: 0.015299 ug

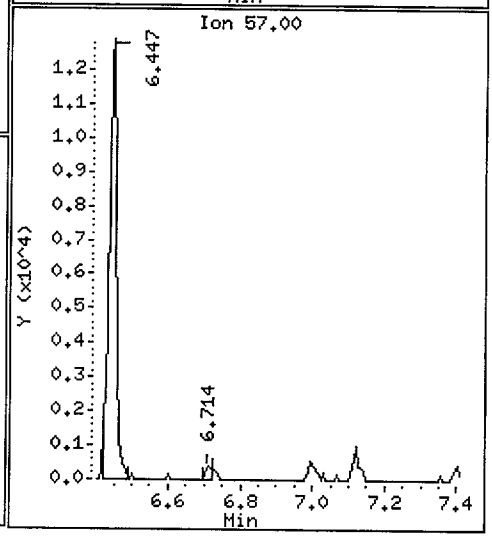


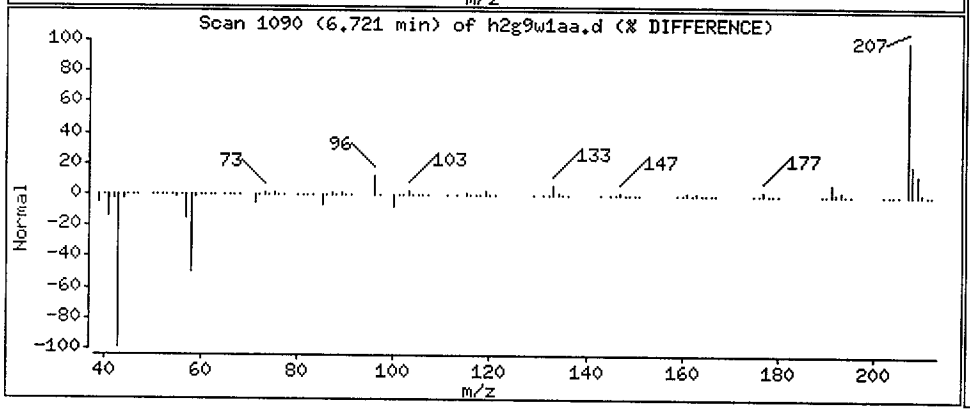












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

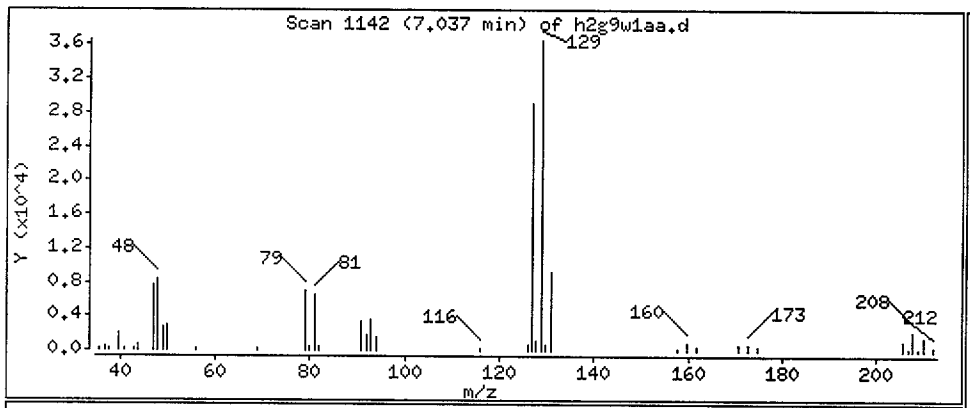
Operator: 22980

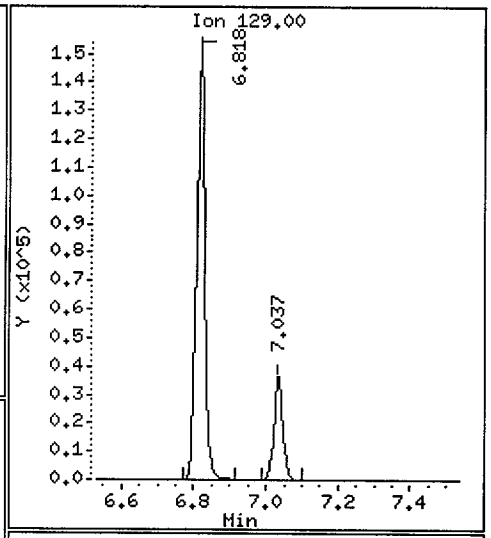
Column phase: J+W 624

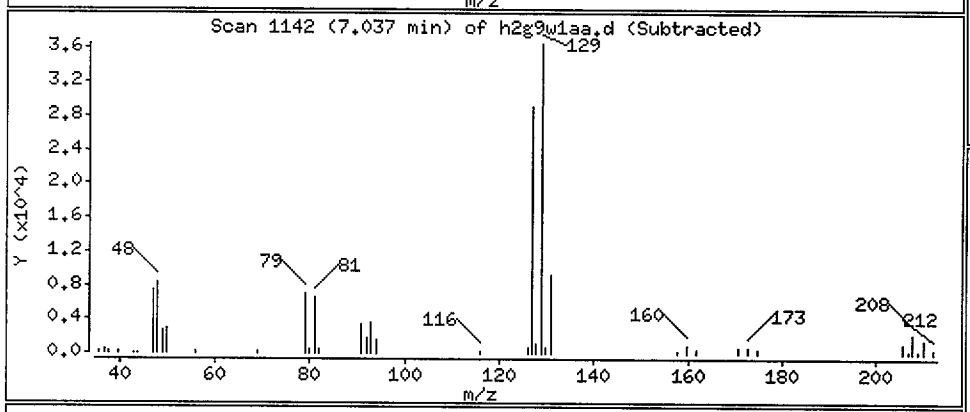
Column diameter: 0.18

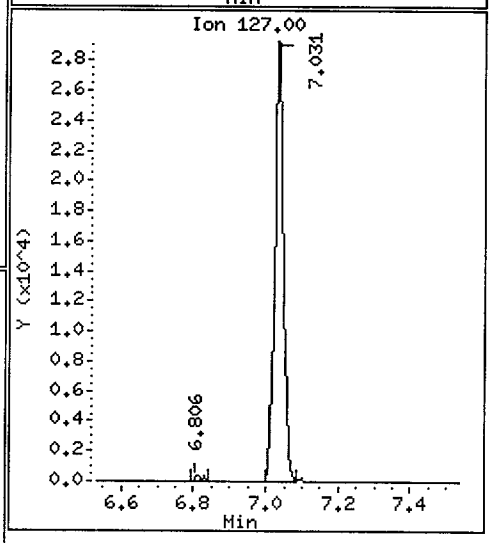
60 Chlorodibromomethane

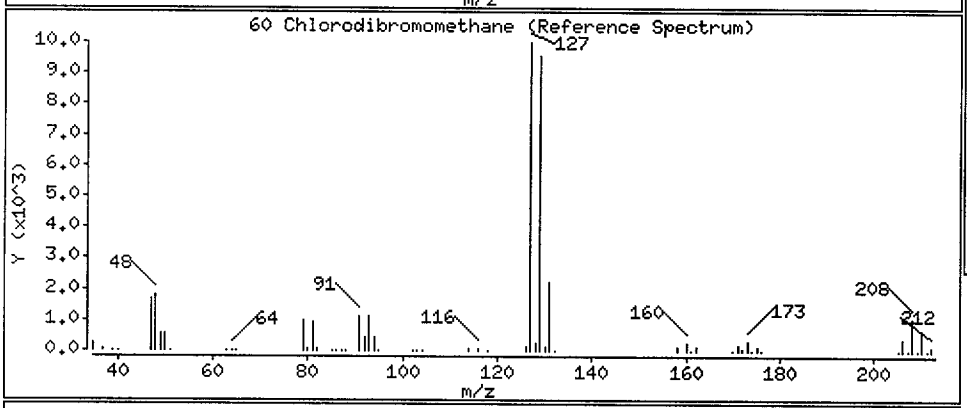
Concentration: 0.11851 ug

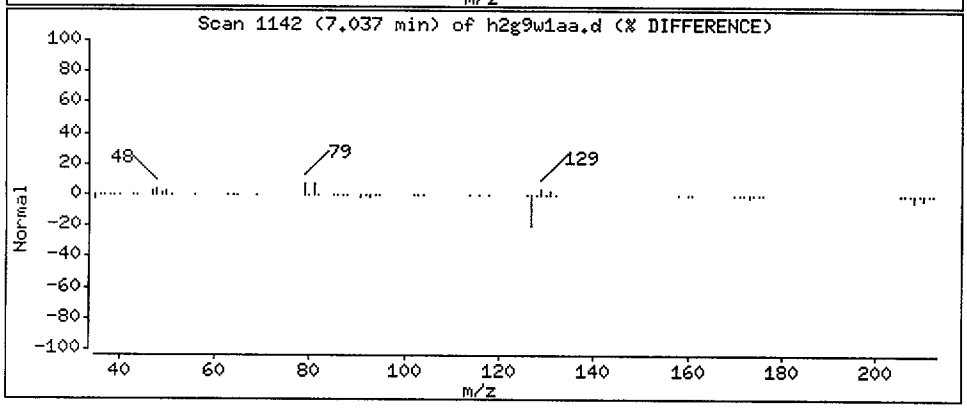












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

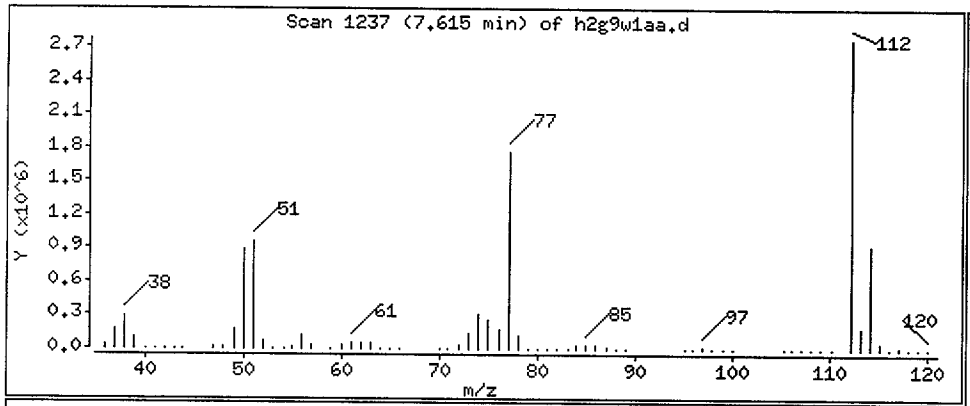
Operator: 22980

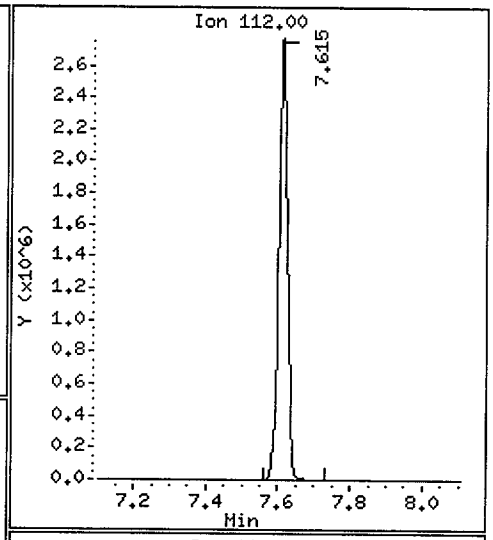
Column phase: J+W 624

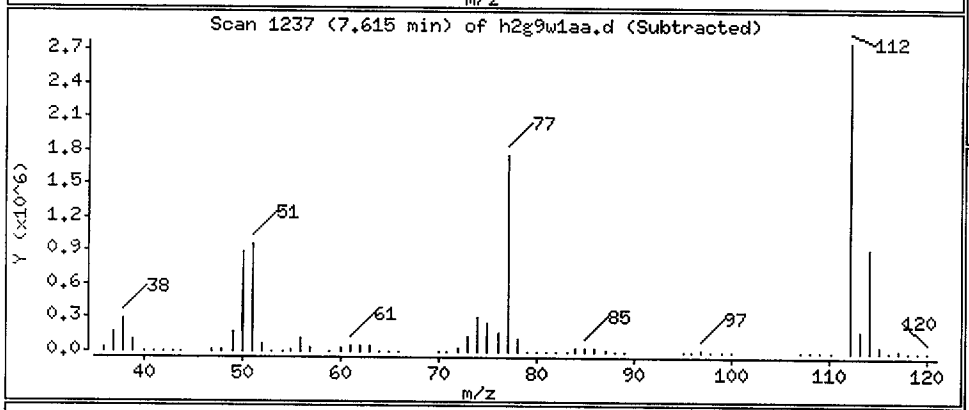
Column diameter: 0.18

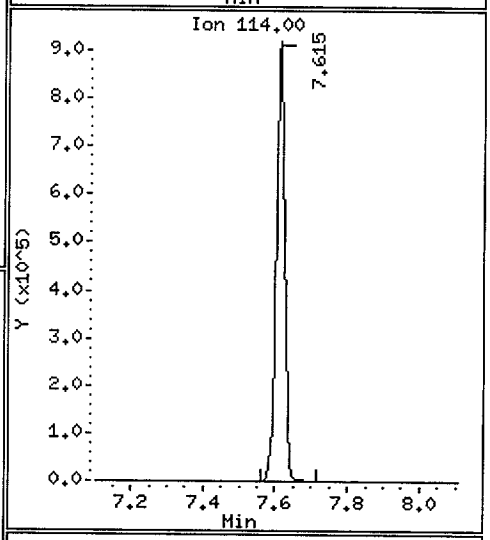
62 Chlorobenzene (spcc)

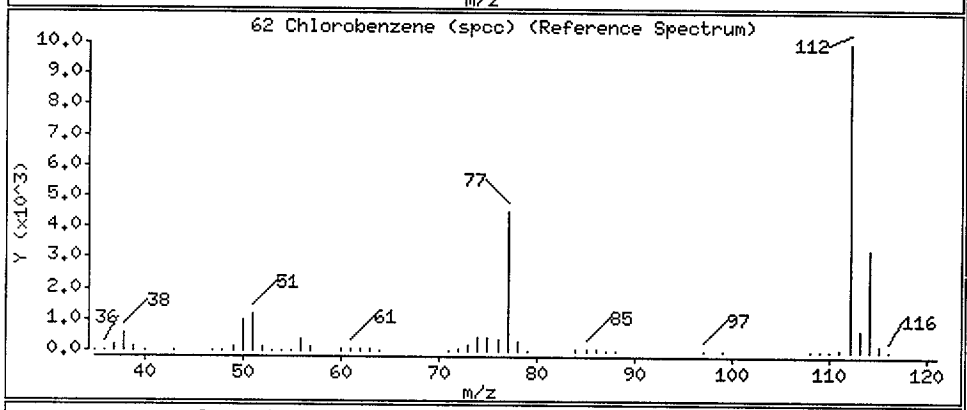
Concentration: 1.6471 ug

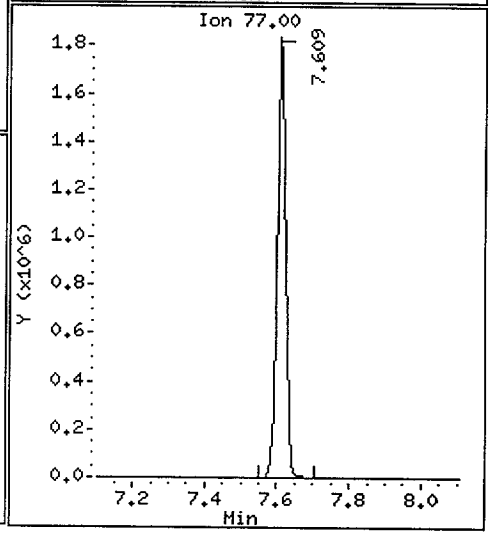


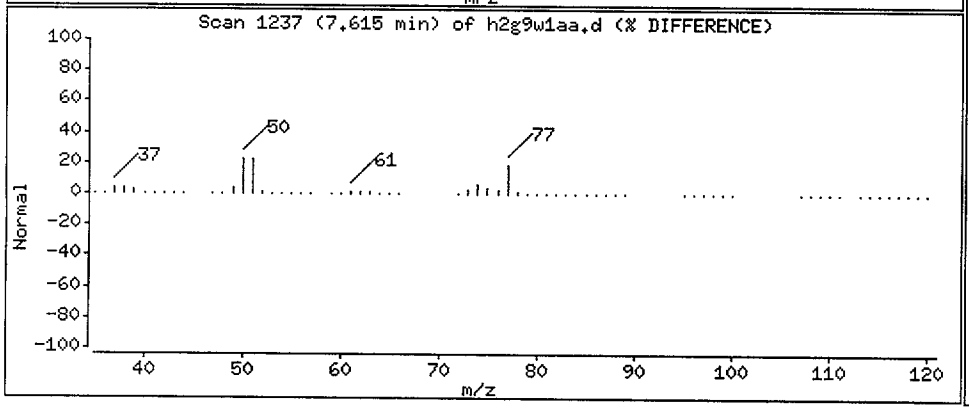












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

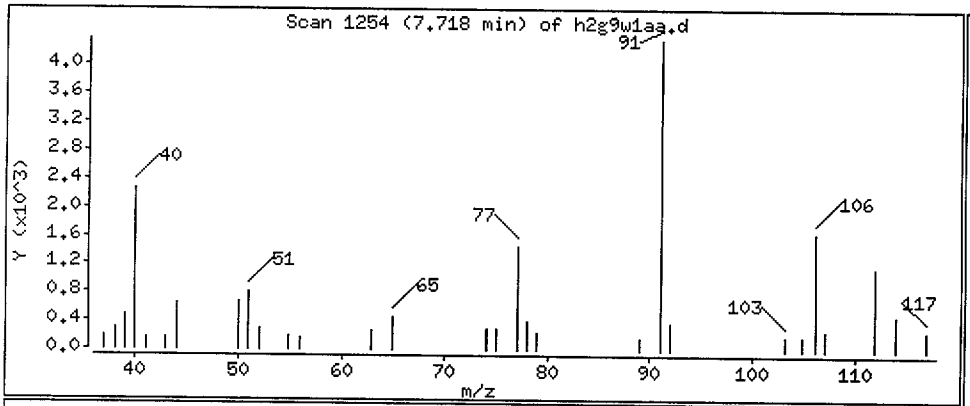
Operator: 22980

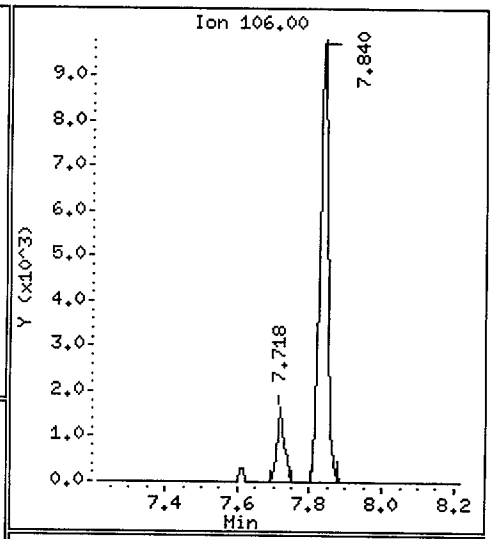
Column phase: J+W 624

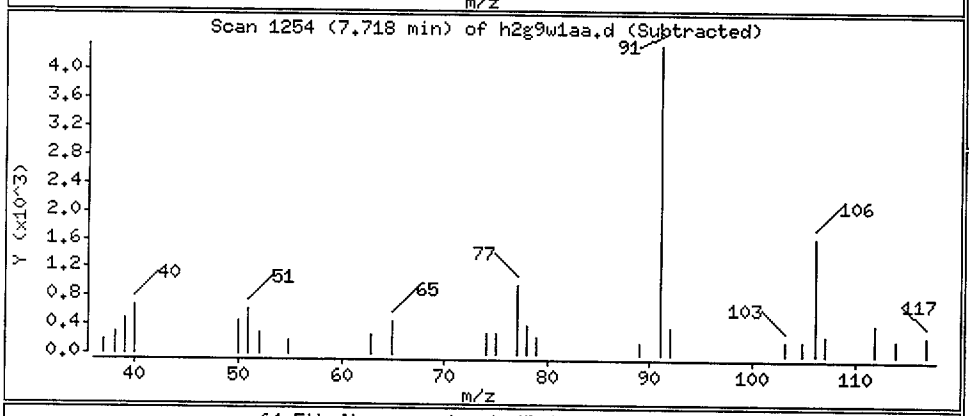
Column diameter: 0.18

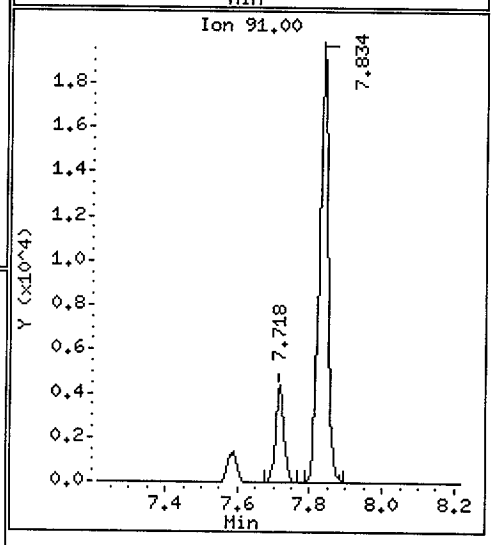
64 Ethylbenzene (ccc)

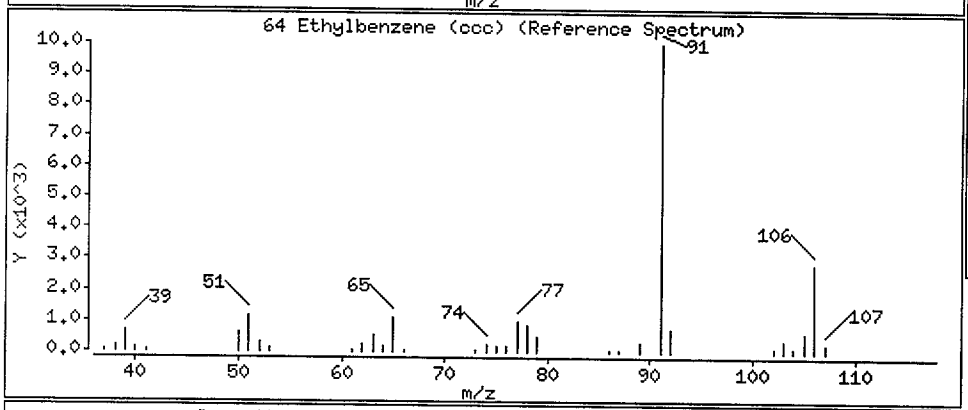
Concentration: 0.0012208 ug

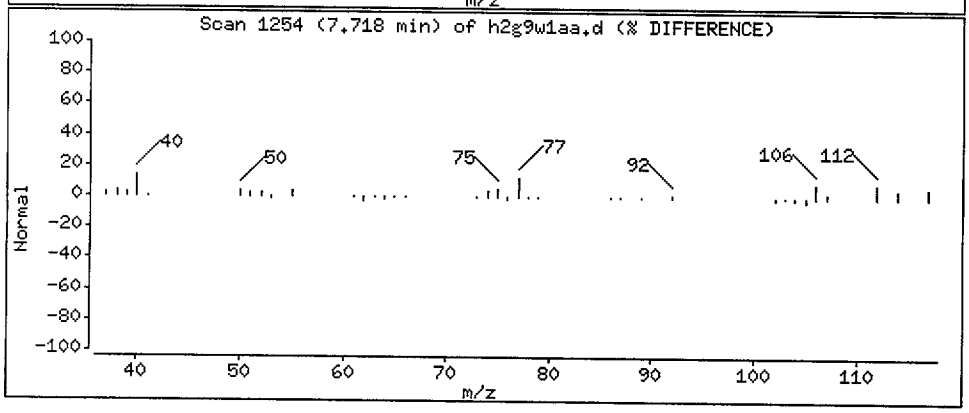












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

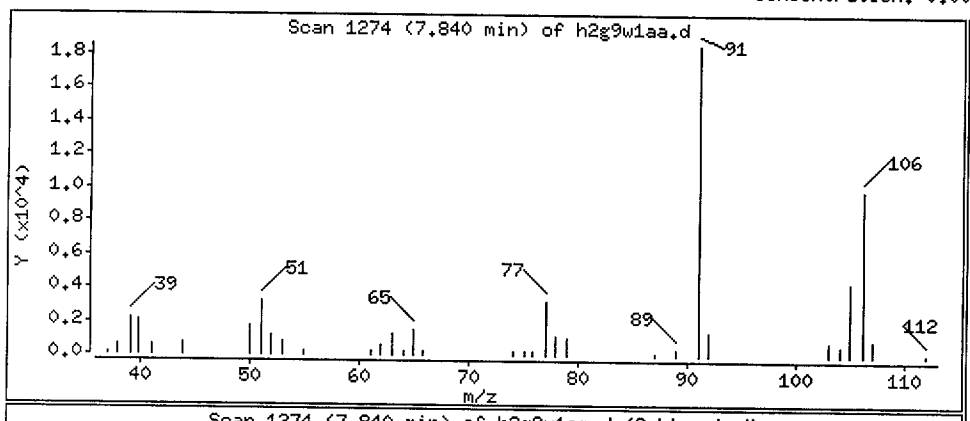
Operator: 22980

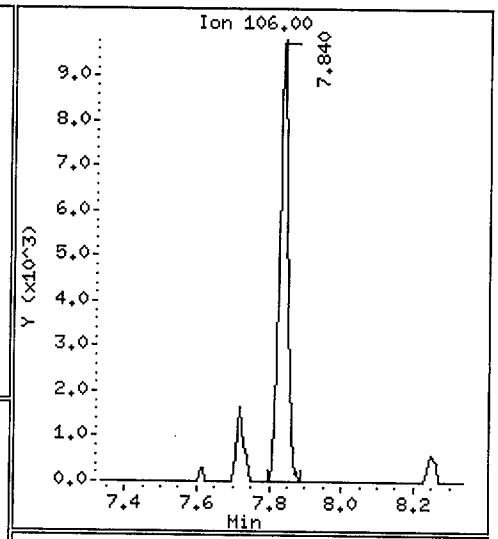
Column phase: J+W 624

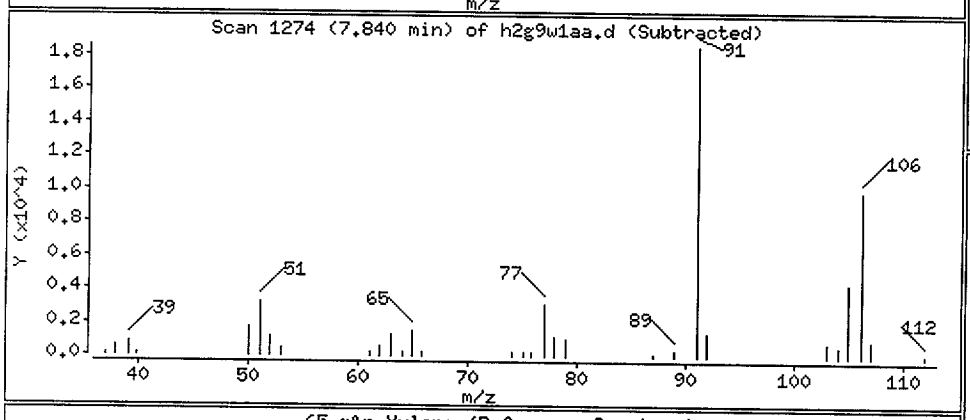
Column diameter: 0.18

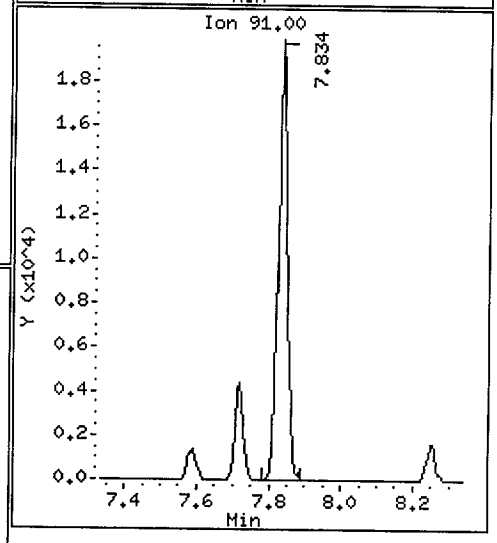
65 m&p-Xylene

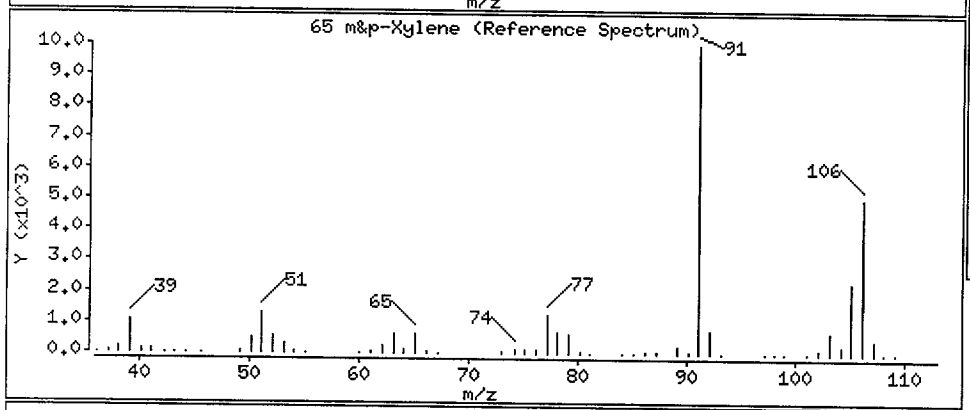
Concentration: 0.0073168 ug

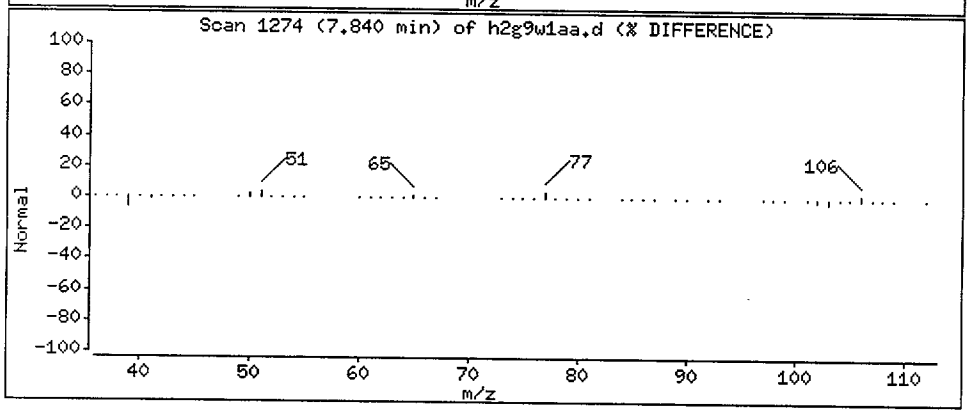












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

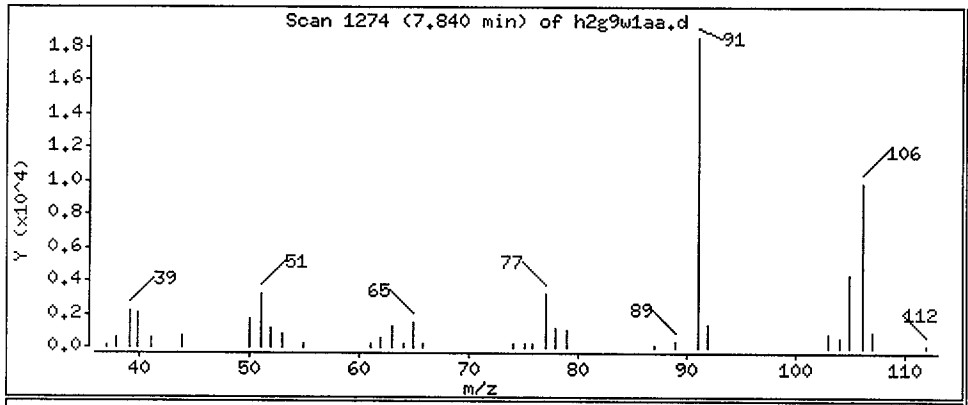
Operator: 22980

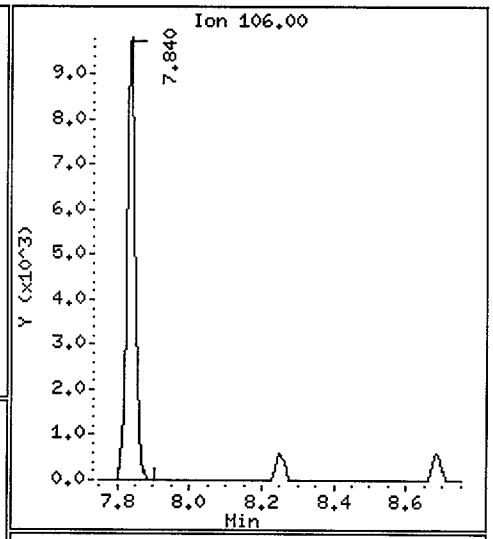
Column phase: J+W 624

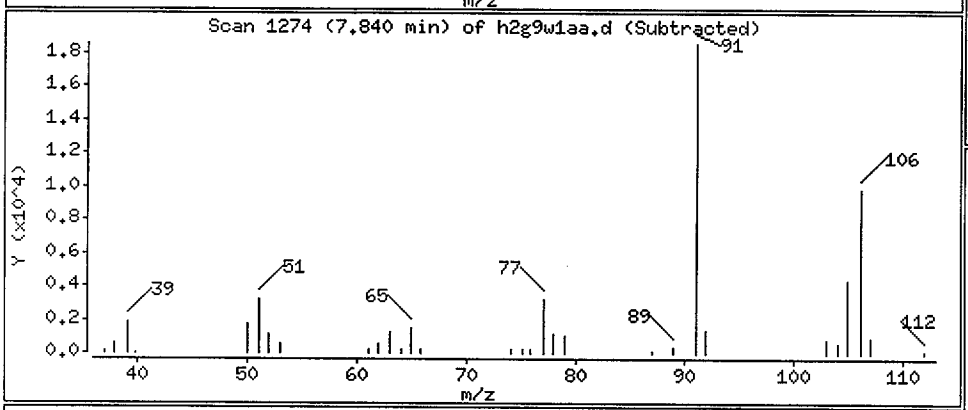
Column diameter: 0.18

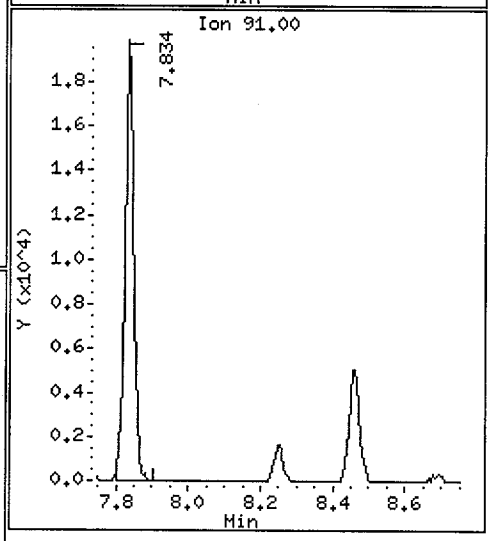
66 o-Xylene

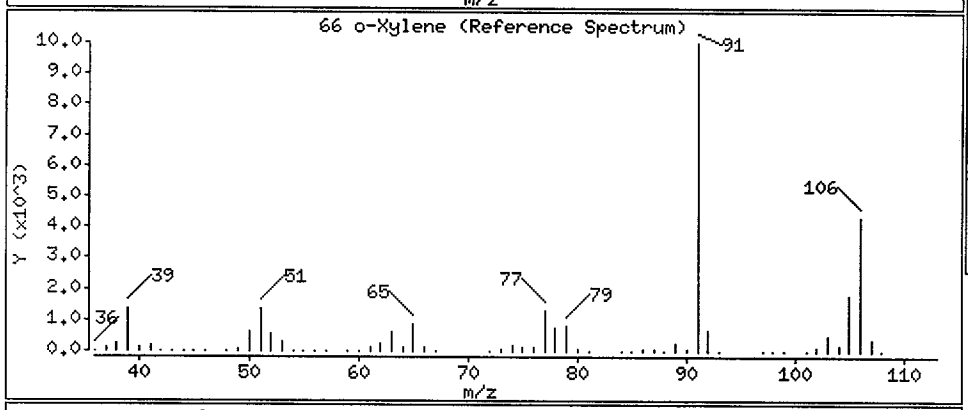
Concentration: 0.0085349 ug

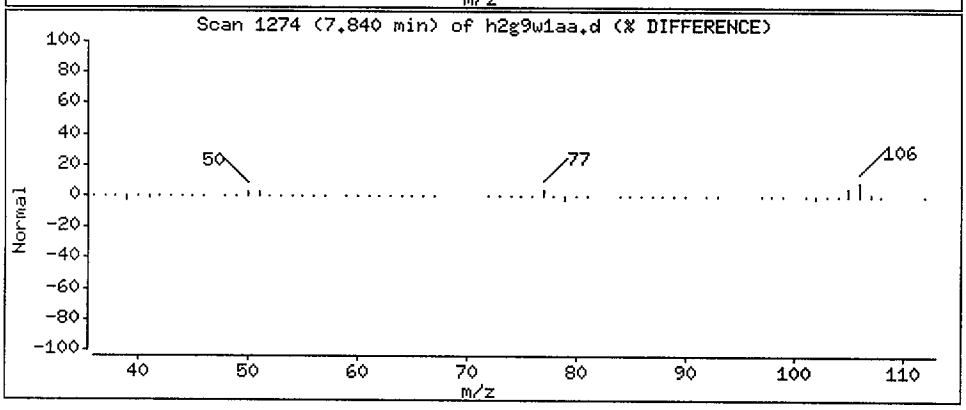












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

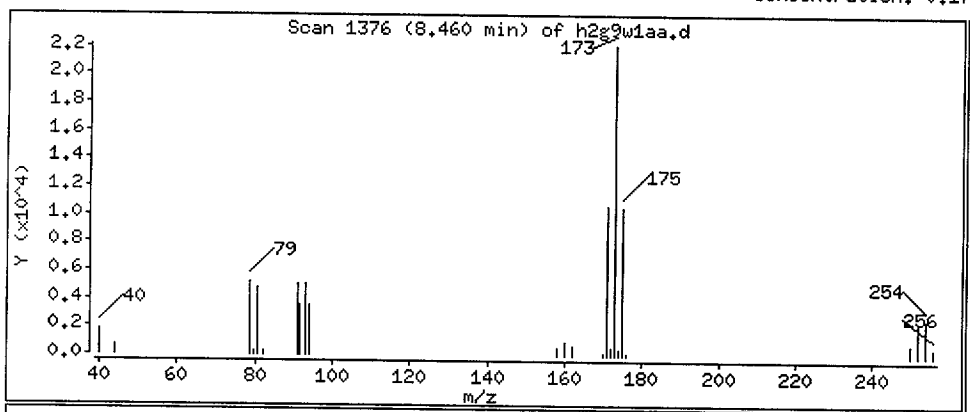
Operator: 22980

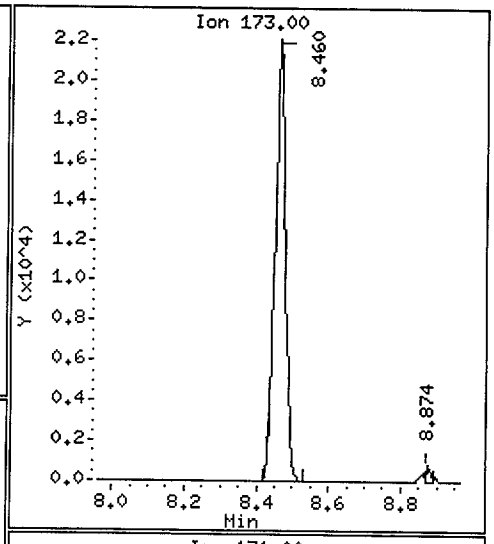
Column phase: J+W 624

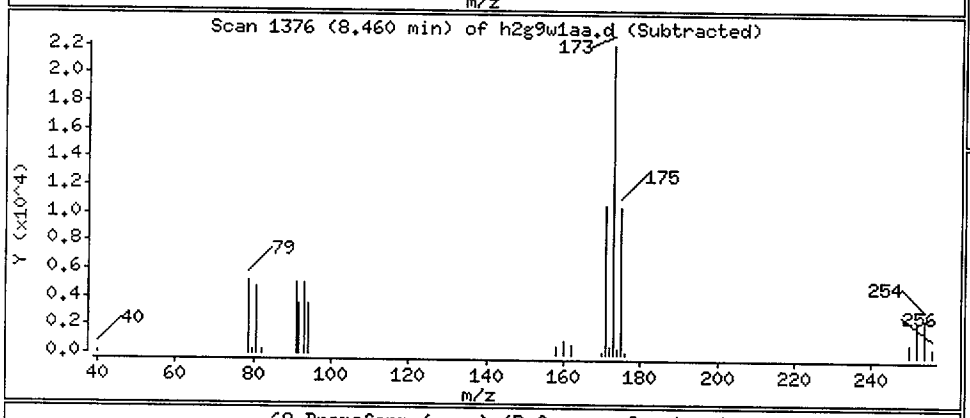
Column diameter: 0.18

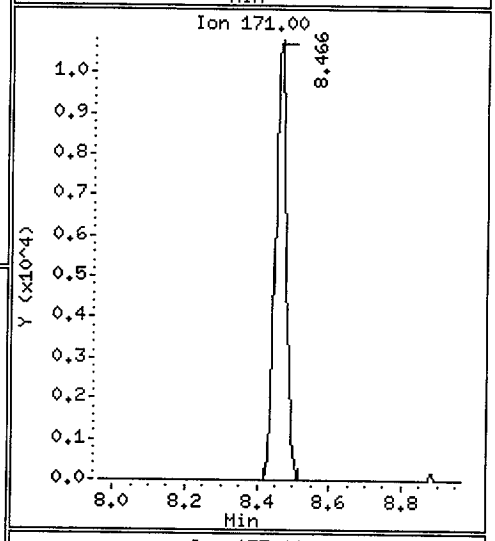
68 Bromoform (spcc)

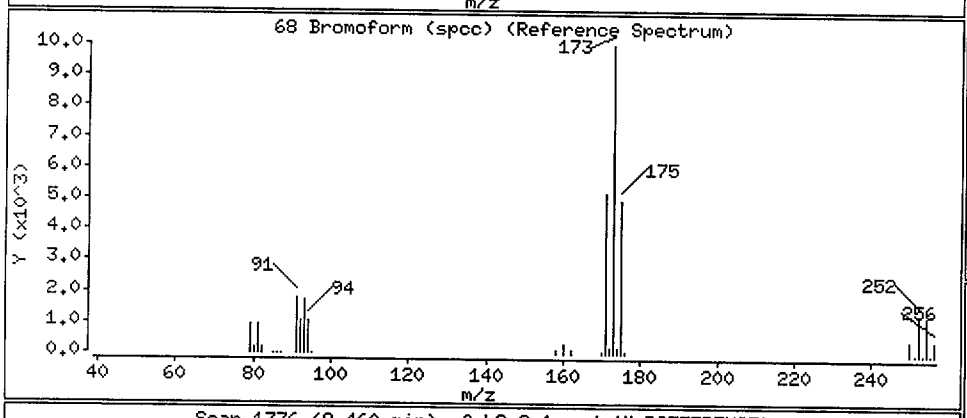
Concentration: 0.17132 ug

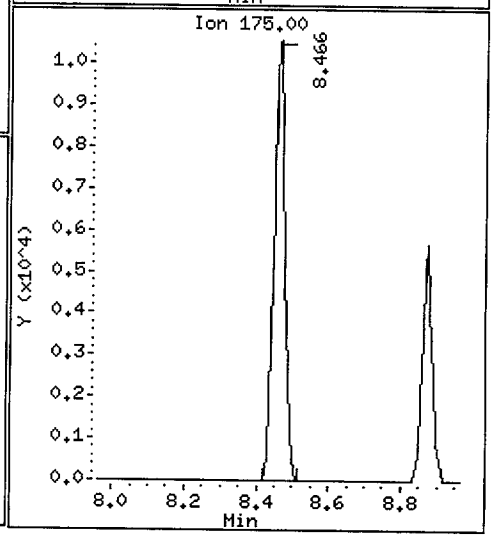


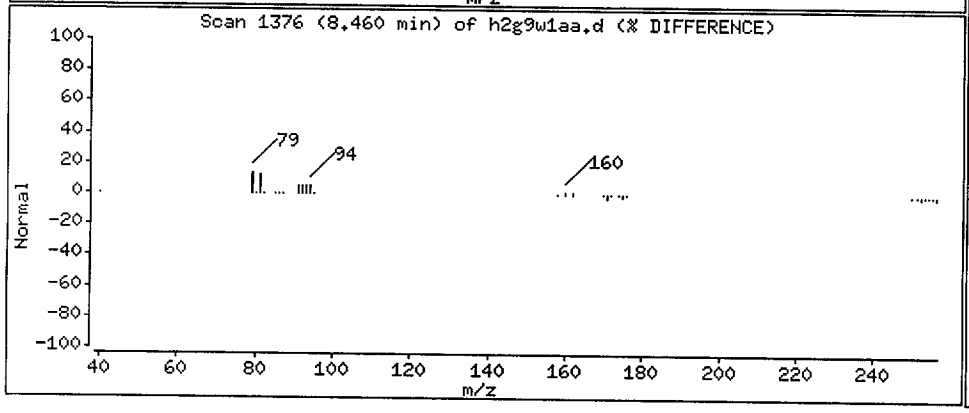












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

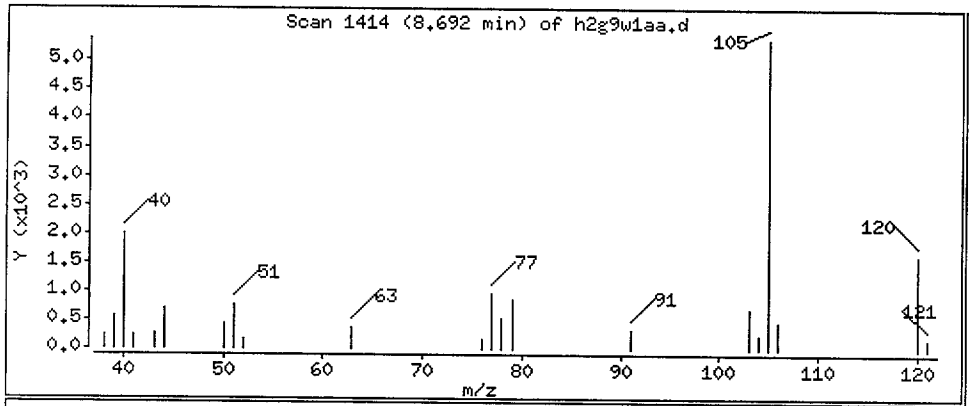
Operator: 22980

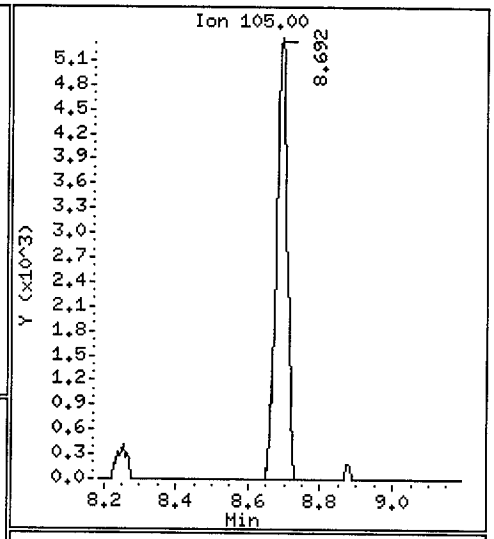
Column phase: J+W 624

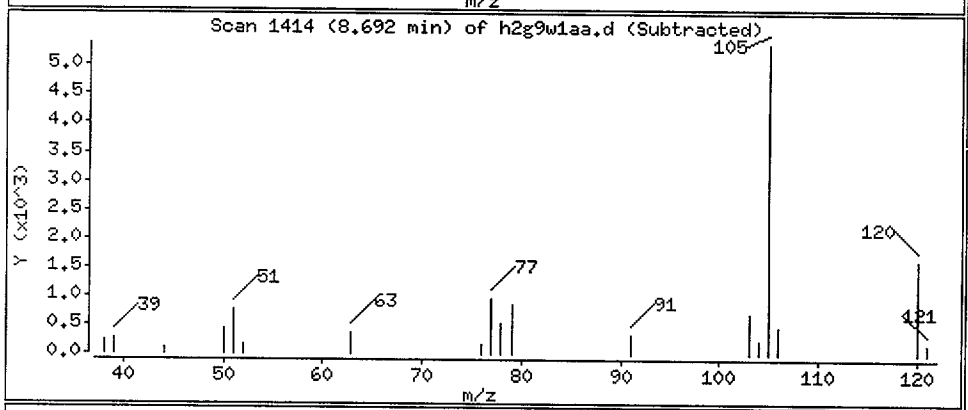
Column diameter: 0.18

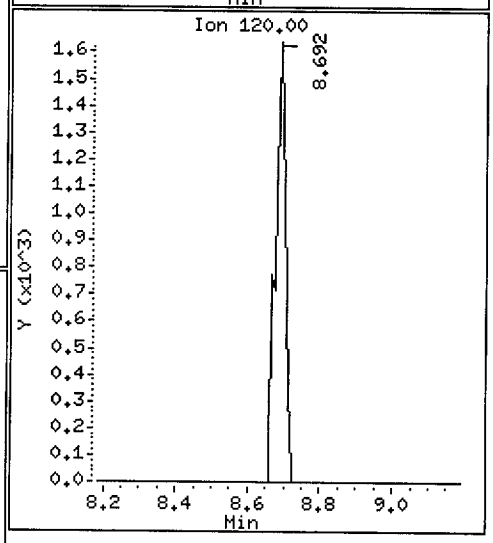
69 Isopropylbenzene

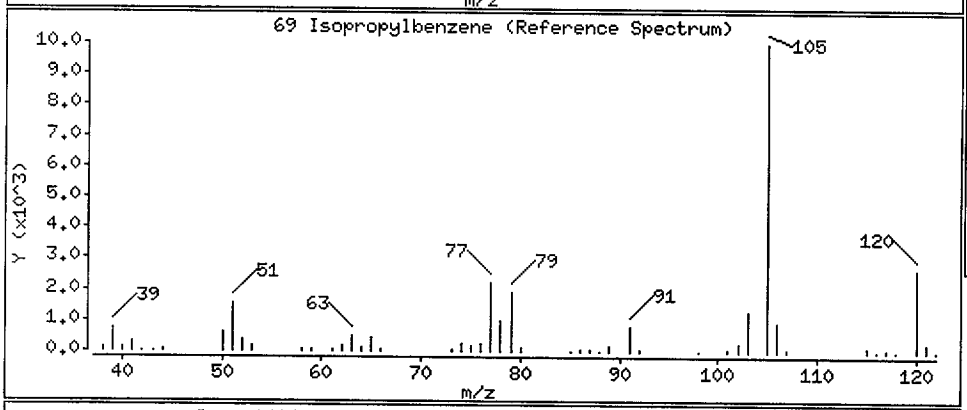
Concentration: 0.0018120 ug

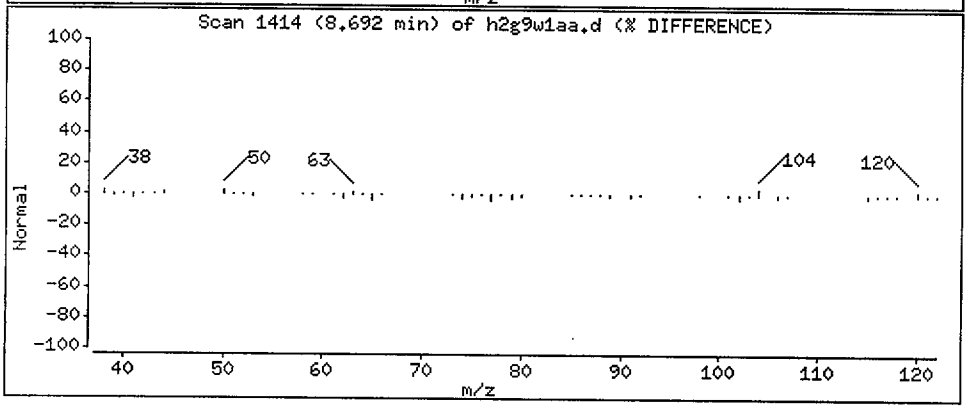












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

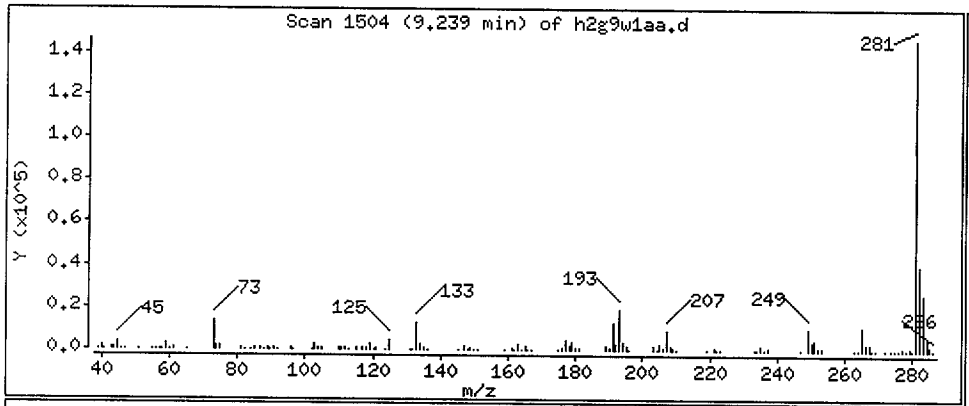
Operator: 22980

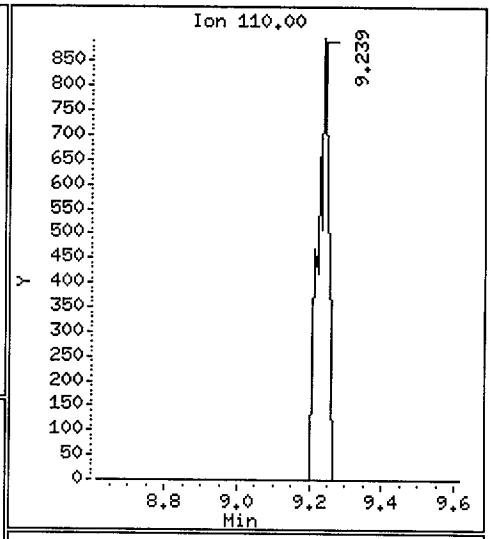
Column phase: J+W 624

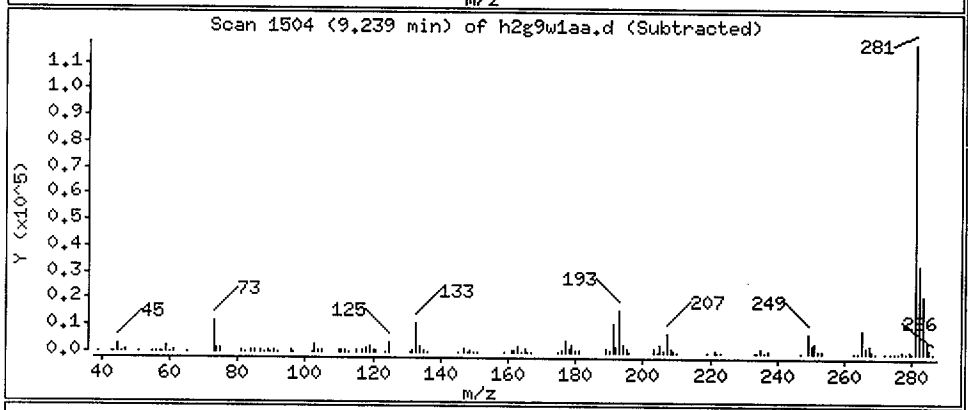
Column diameter: 0.18

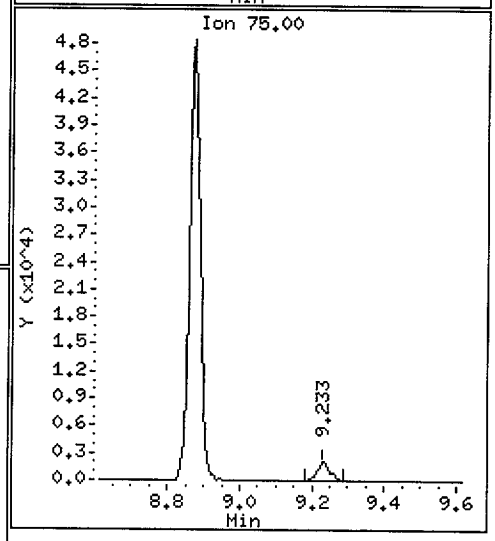
73 1,2,3-Trichloropropane

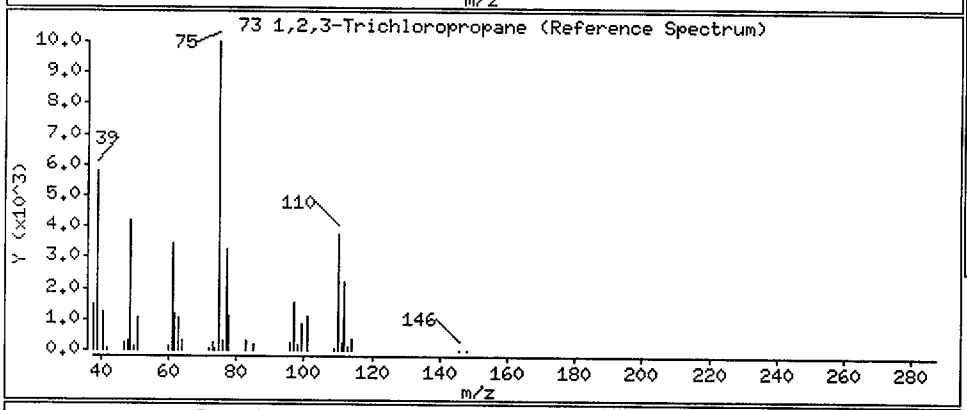
Concentration: 0.020397 ug

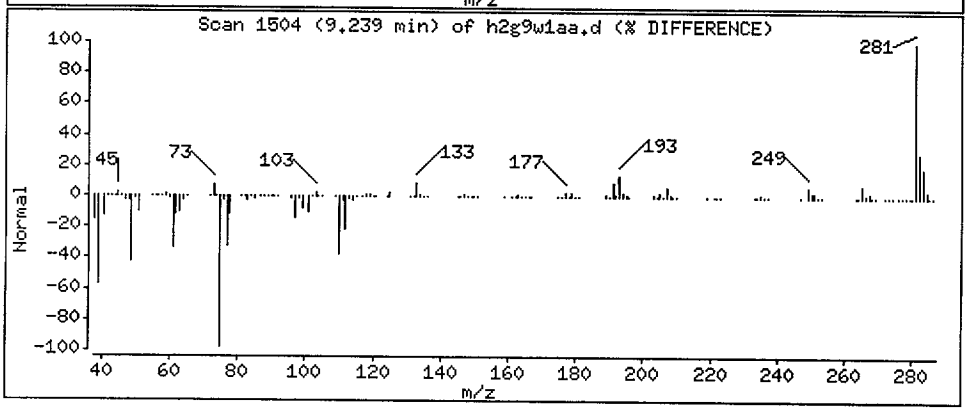












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

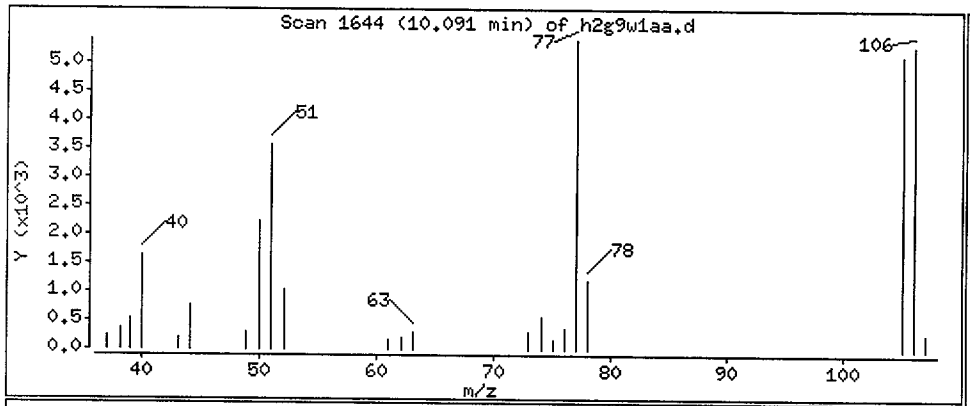
Operator: 22980

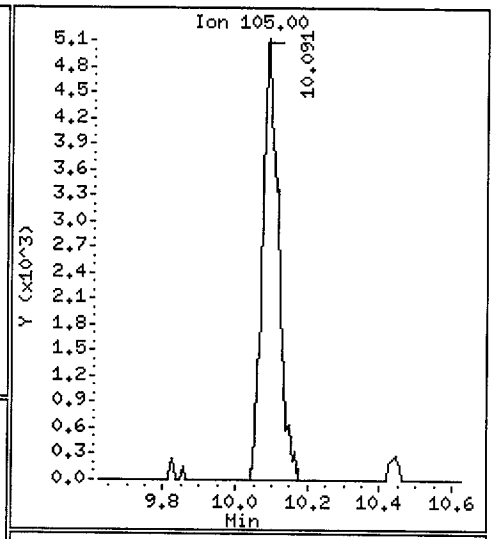
Column phase: J+W 624

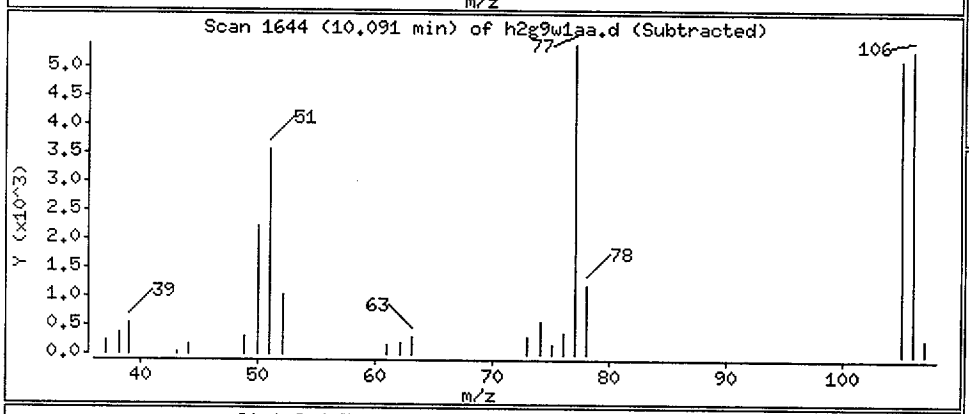
Column diameter: 0.18

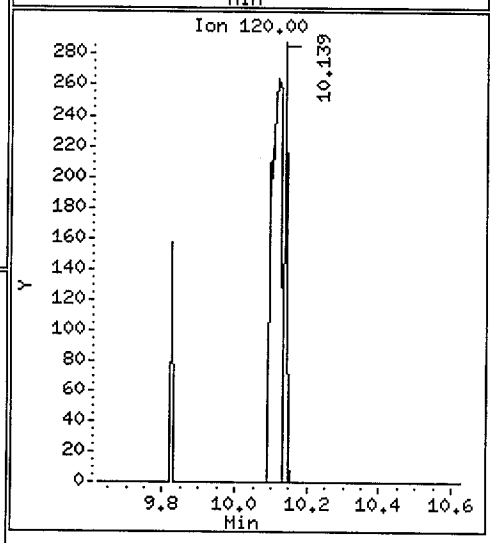
80 1,2,4-Trimethylbenzene

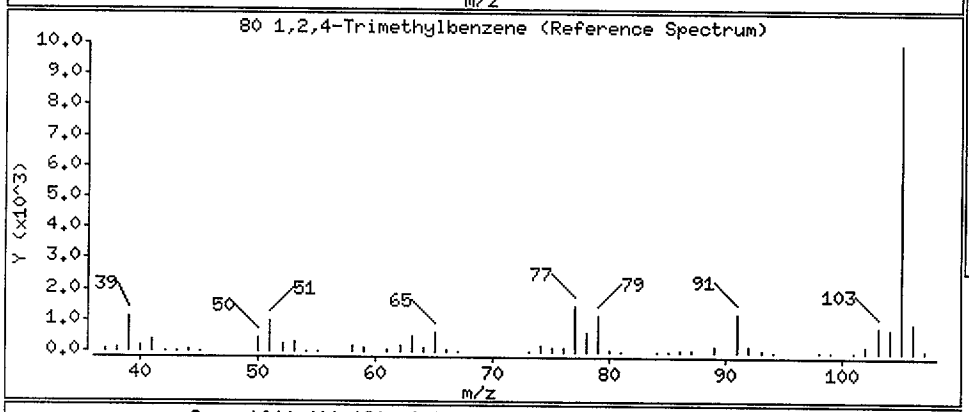
Concentration: 0.0050441 ug

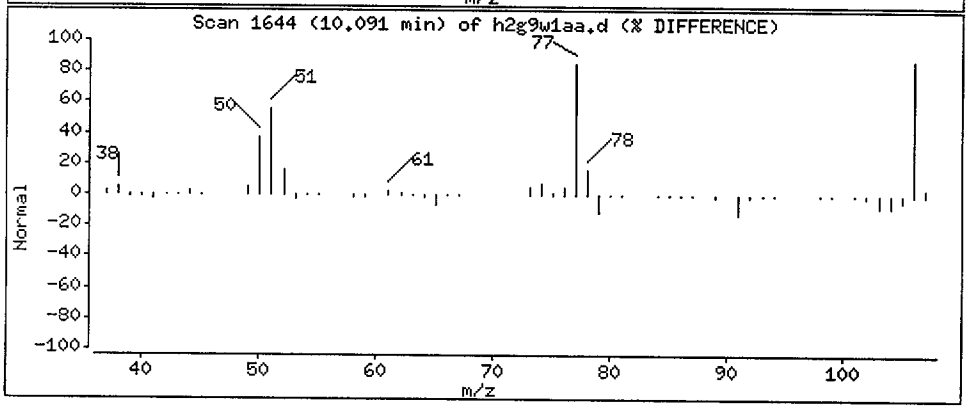












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

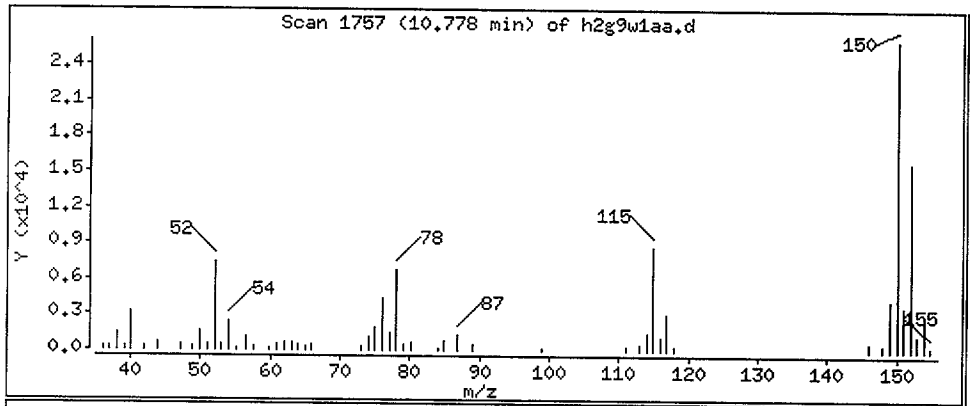
Operator: 22980

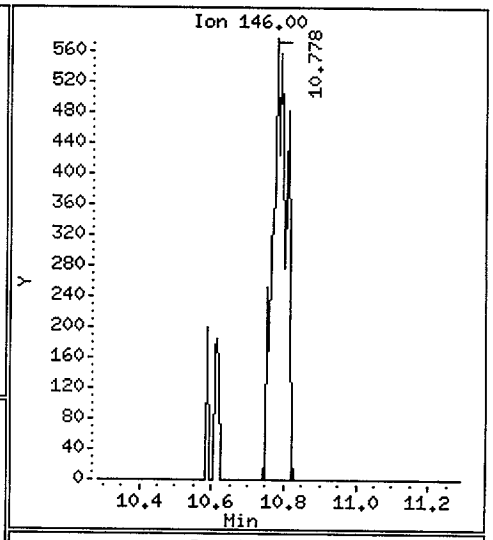
Column phase: J+W 624

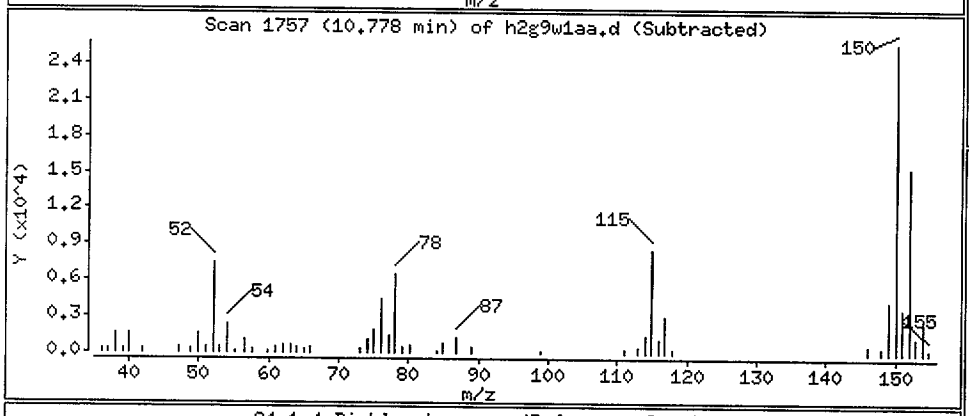
Column diameter: 0.18

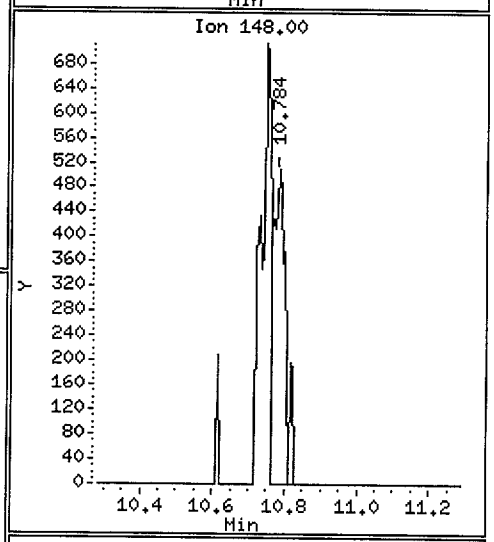
84 1,4-Dichlorobenzene

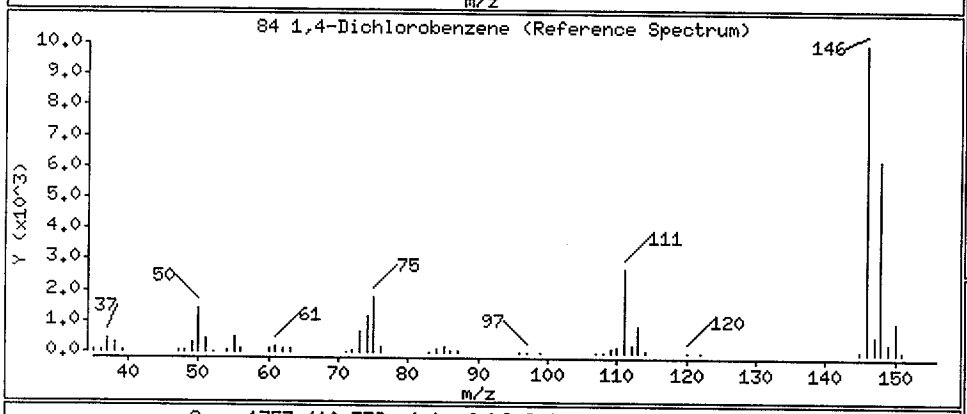
Concentration: 0.0010073 ug

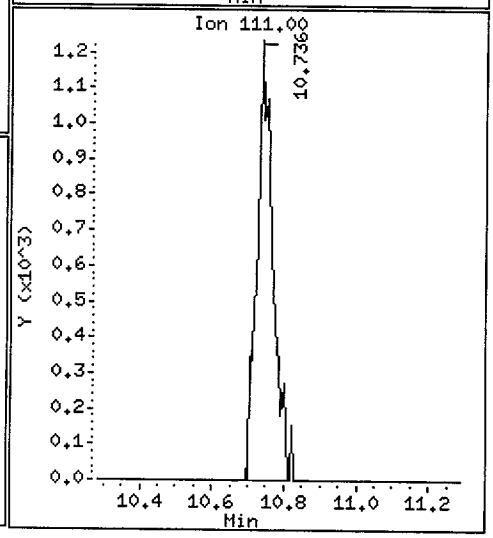


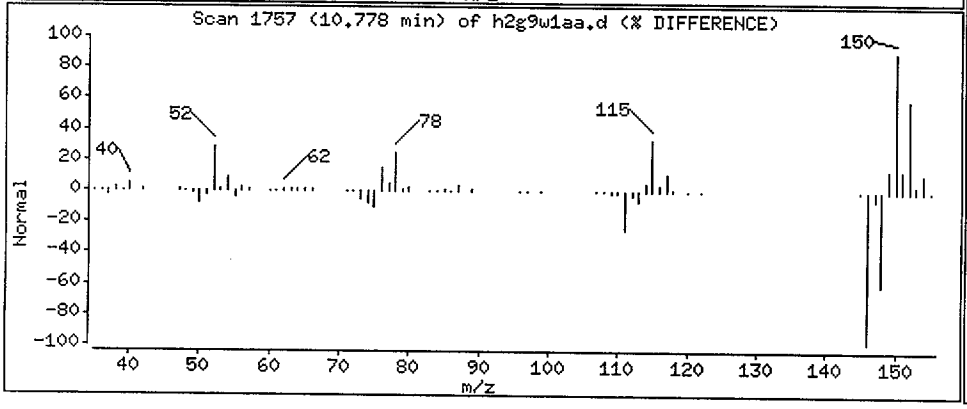












Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

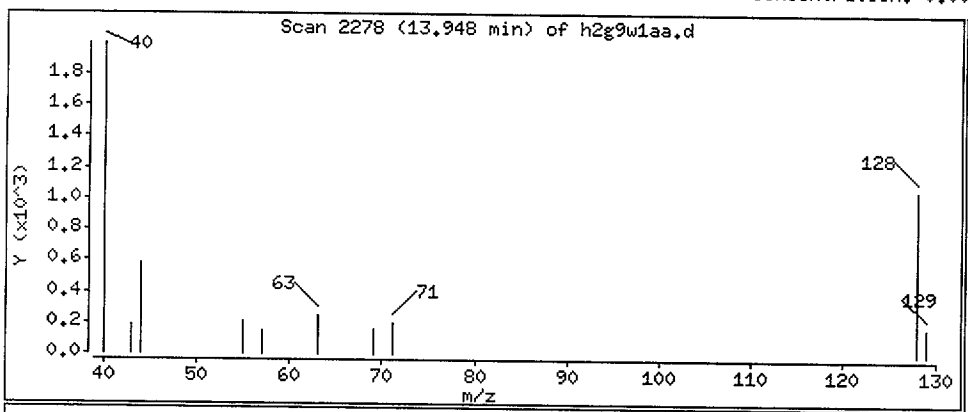
Operator: 22980

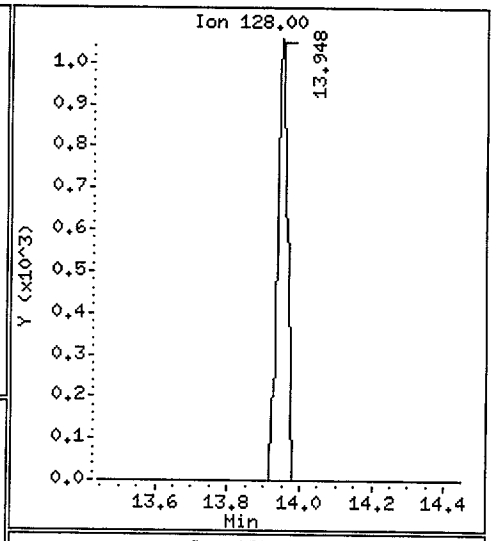
Column phase: J+W 624

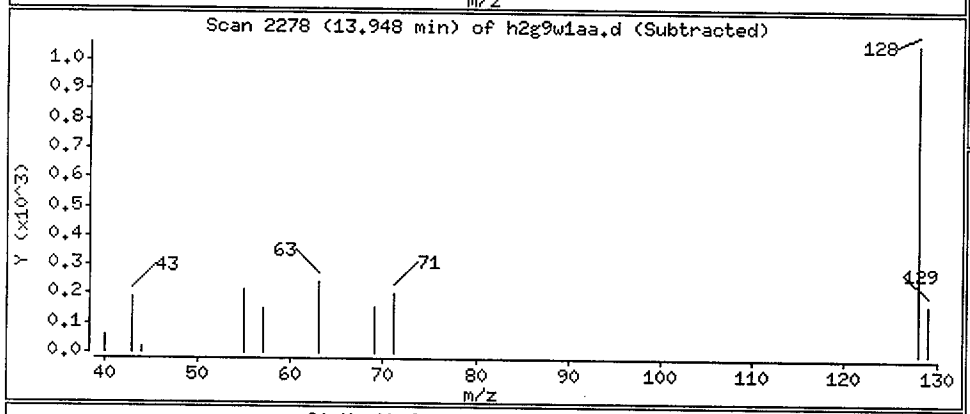
Column diameter: 0.18

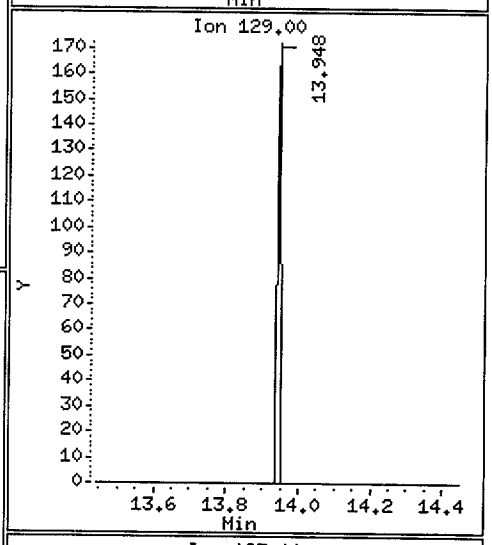
90 Napthalene

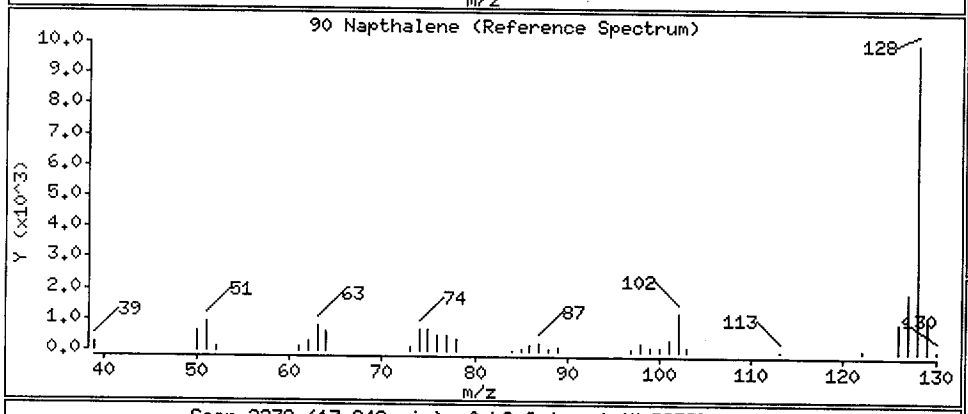
Concentration: 0.0047889 ug

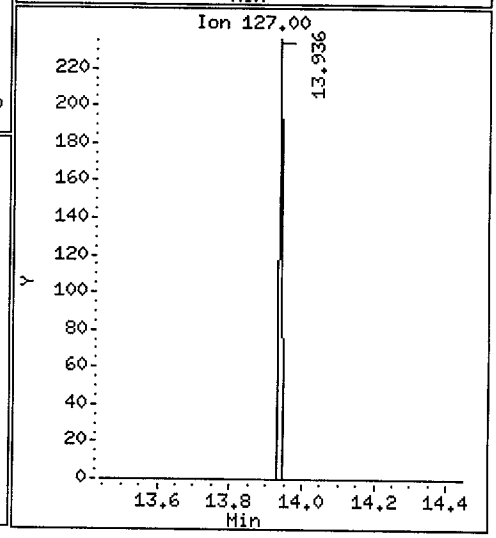


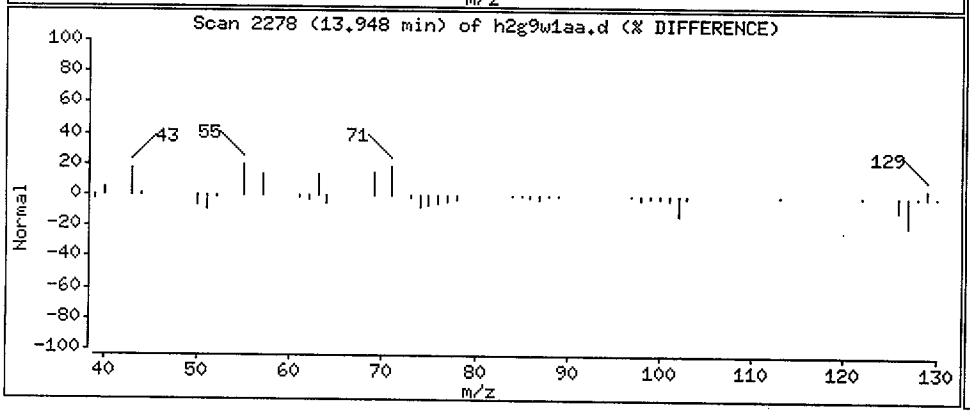












Data File: /var/chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Report Date: 18-Apr-2006 14:56

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Lab Smp Id: H2G9W1AA
Client Smp ID: G-3008-R2-VOST PAIR
Inj Date : 07-APR-2006 13:25
Operator : 22980
Inst ID: mx.i
Smp Info : H2G9W1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.748	579072	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl- Si					CAS #: 556-67-2			
	9.239	414498	7.15796999	0.17895	90	NIST02.1	115617	3
Benzeneethanamine, N-[(pentafluorophenyl Si					CAS #: 55429-85-1			
	12.445	77058	1.33071535	0.033268	56	NIST02.1	166788	3

4/19/06 H

Data File: /var/chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

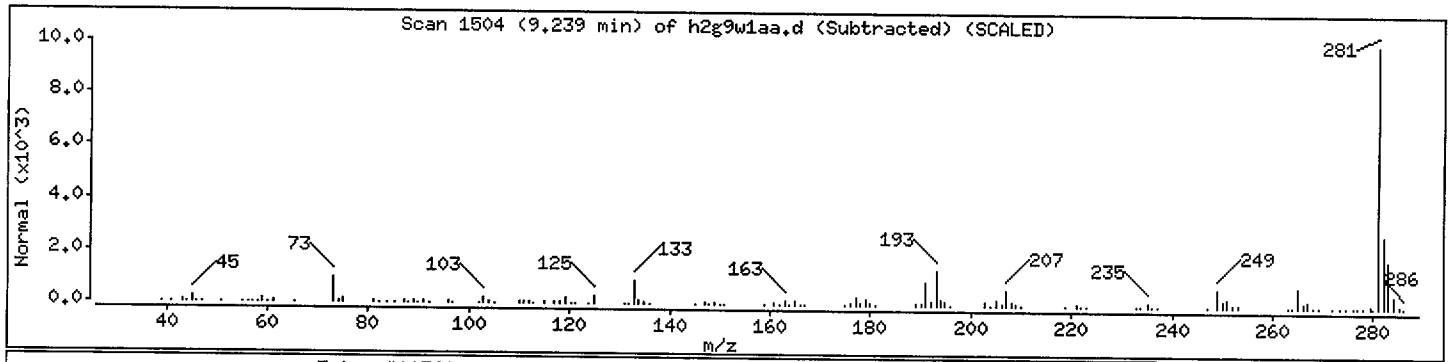
Sample Info: H2G9W1AA,1,0,,,

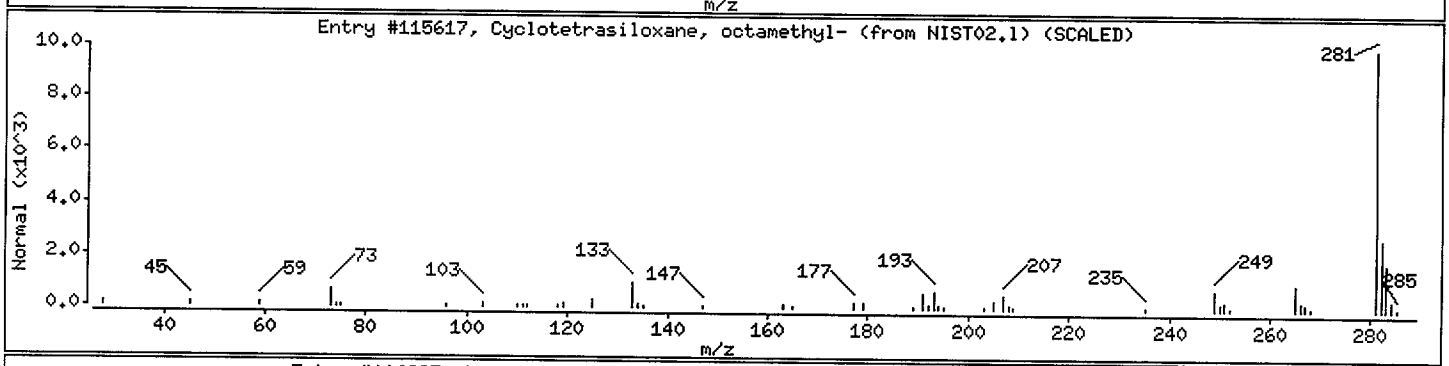
Operator: 22980

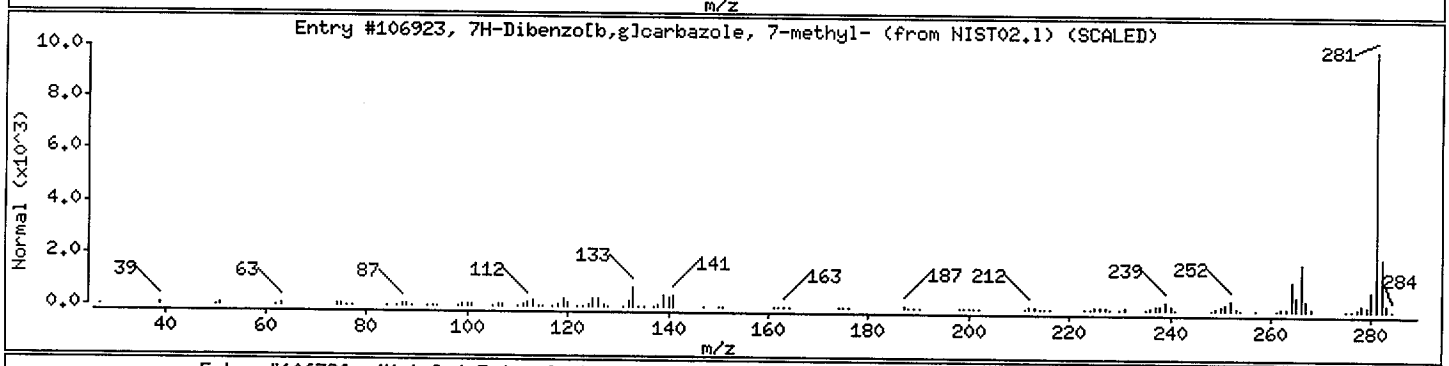
Column phase: J+W 624

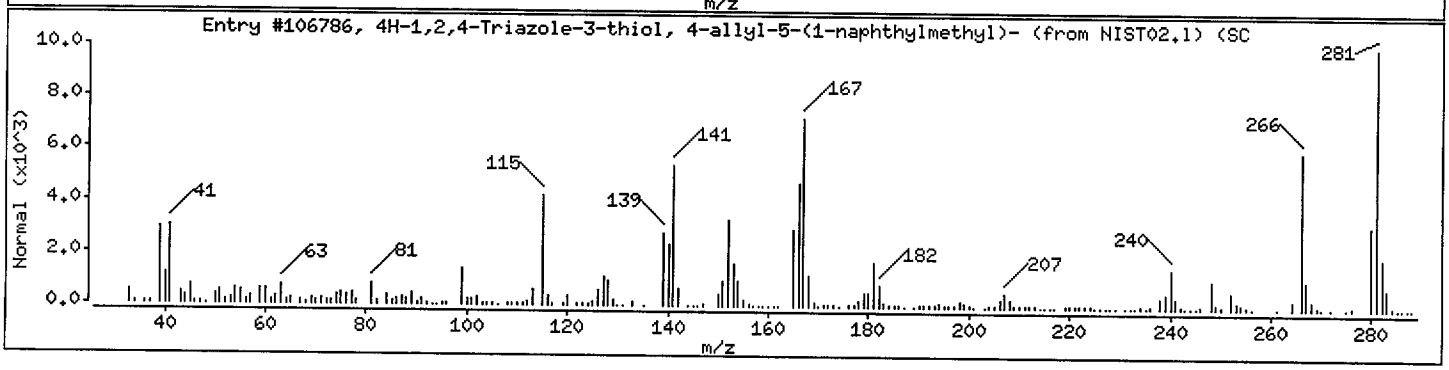
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.l	115617	90	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.l	106923	53	C21H15N	281
4H-1,2,4-Triazole-3-thiol, 4-allyl-5-(1-	31803-13-1	NIST02.l	106786	47	C16H15N3S	281









Data File: /var/chem/gcms/mx.i/X040706.b/h2g9w1aa.d

Date : 07-APR-2006 13:25

Client ID: G-3008-R2-VOST PAIR

Instrument: mx.i

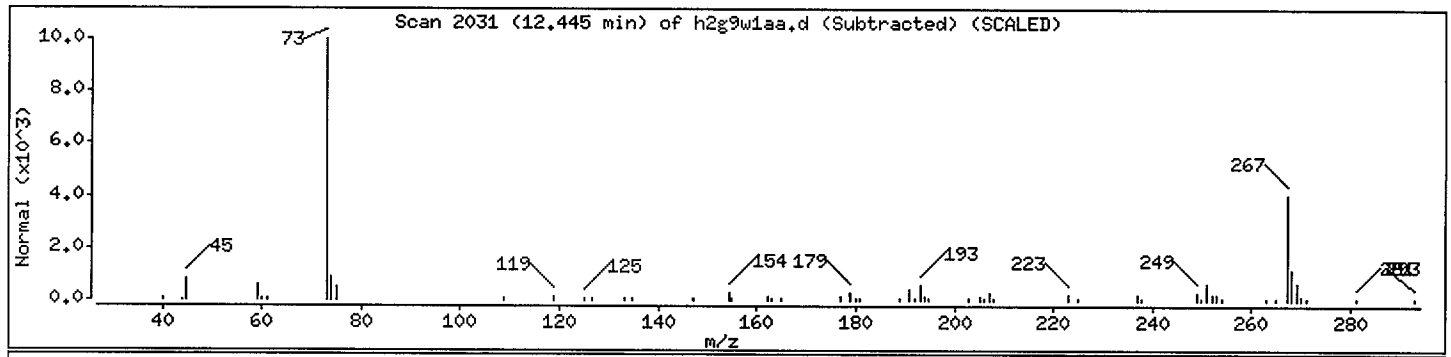
Sample Info: H2G9W1AA,1,0,,,

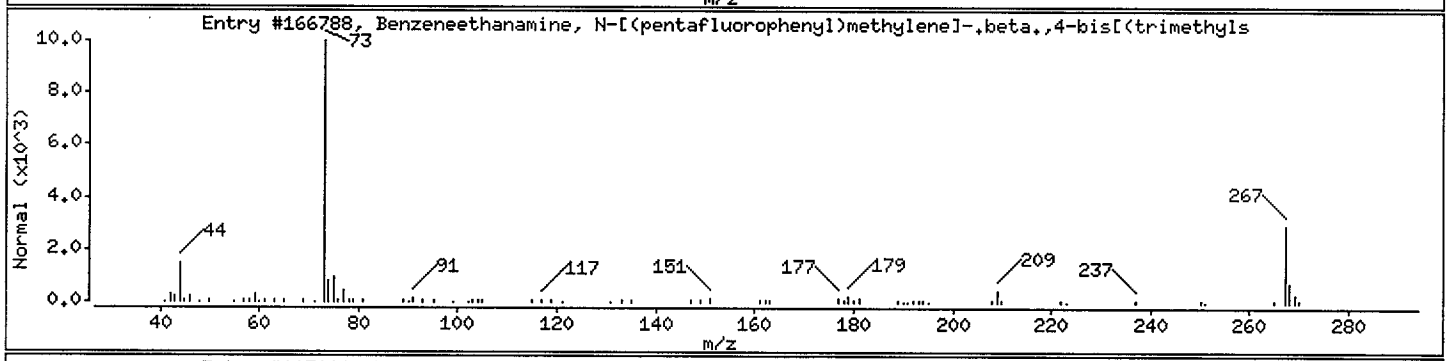
Operator: 22980

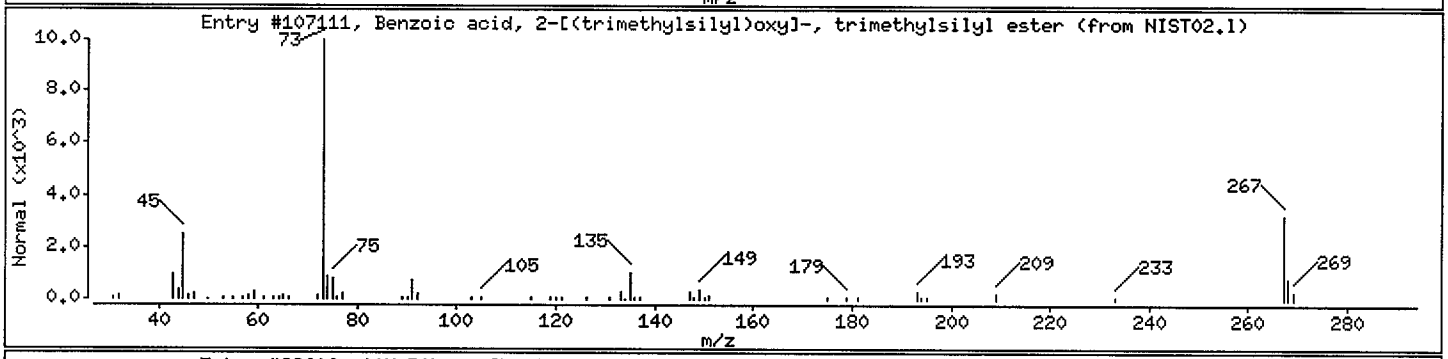
Column phase: J+W 624

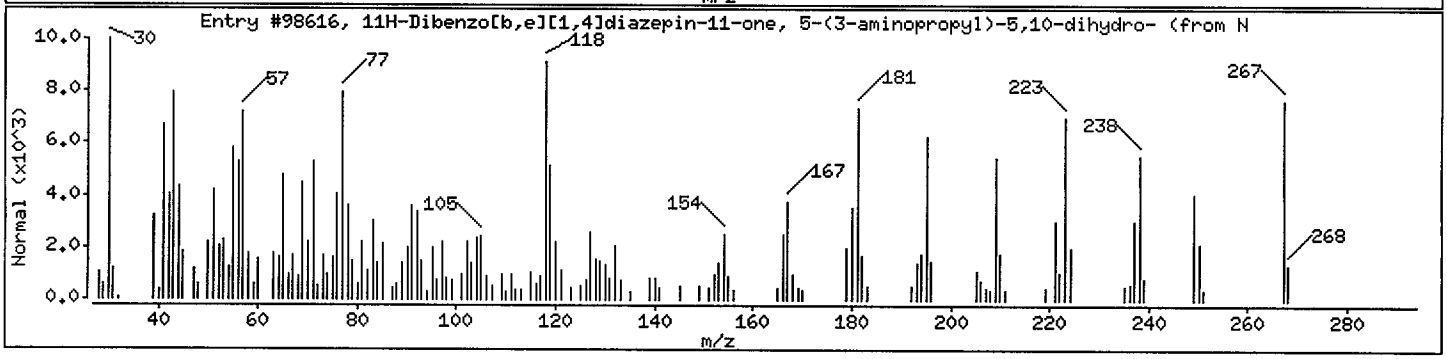
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.1	166788	56	C21H26F5N02Si2	475
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.1	107111	50	C13H22O3Si2	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.1	98616	46	C16H17N3O	267









STL Knoxville - ACS

Client Sample ID: G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-015 **Work Order #...:** H2G911AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.097 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.028 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0028 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0019 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.061**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.018 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-015 **Work Order #...:** H2G911AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.019 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0034 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0093 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	88	(57 - 127)
Bromofluorobenzene	90	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-015 **Work Order #:** H2G911AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d
Report Date: 07-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g911aa.d
Lab Smp Id: H2G911AA Client Smp ID: G-3009-R2-VOST PAIR
Inj Date : 07-APR-2006 16:44
Operator : 22980 Inst ID: mz.i
Smp Info : H2G911AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/07/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)	
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	644285	10.0000		
* 2 Chlorobenzene-d5	119	8.940	8.937	(1.000)	166790	10.0000		
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.492	(1.000)	228054	10.0000		
$ 4 Dibromofluoromethane	113	4.828	4.831	(0.851)	106600	10.3257	0.25814	
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.924)	87925	9.84886	0.24622	
$ 6 Toluene-d8	98	7.462	7.465	(0.835)	648579	8.85009	0.22125	
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	206276	8.96878	0.22422	
10 Dichlorodifluoromethane	85	1.007	1.016	(0.178)	11052	0.70276	0.017569	
11 Chloromethane (spcc)	50	1.123	1.126	(0.198)	108144	2.42301	0.060575	
15 Bromomethane	94	1.403	1.418	(0.247)	1334	1.02848	0.025712	- see report for (m)
16 Chloroethane	64	1.518	1.485	(0.268)	11829	0.98450	~~0.024612~~	
22 Acetone	43	2.133	2.123	(0.376)	2445	3.88142	0.097036	
23 *Iodomethane	142	2.194	2.184	(0.387)	329	0.54185	0.013546	
27 Methylene Chloride	84	2.516	2.513	(0.443)	8348	0.77476	0.019369	
40 Chloroform (ccc)	83	4.615	4.618	(0.813)	1785	0.07672	0.0019180	
44 Benzene	78	5.302	5.305	(0.935)	3966	0.06243	0.0015607	- see report for (m)

4-14-06

Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d
Report Date: 07-Apr-2006 17:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
45 1,2-Dichloroethane	62	5.673	5.335	(1.000)	10188	0.75725	0 ~~.018931~~
46 Trichloroethene	130	6.111	6.114	(1.077)	6633	0.37113	0.0092783
53 4-Methyl-2-pentanone	43	7.456	7.386	(1.314)	4896	0.87027	~~0.021757~~
54 Toluene (ccc)	91	7.529	7.532	(0.842)	13094	0.13795	0.0034488
55 trans-1,3-Dichloropropene	75	8.125	7.793	(0.909)	479	0.65691	0.016423
57 1,1,2-Trichloroethane	97	8.131	7.964	(0.909)	844	0.10968	~~0.0027419~~
63 Chlorobenzene (spcc)	112	8.964	8.961	(1.003)	6028	0.11379	0.0028448
65 Ethylbenzene (ccc)	106	9.220	9.101	(1.031)	1500	0.04396	~~0.0010989~~
67 o-Xylene	106	9.220	9.612	(1.031)	1500	0.04117	~~0.0010291~~
69 Bromoform (spcc)	173	10.126	9.782	(1.133)	463	0.97522	0.024381
83 1,3-Dichlorobenzene	146	11.526	11.395	(1.003)	2833	0.07099	~~0.0017747~~
85 1,4-Dichlorobenzene	146	11.526	11.528	(1.003)	2833	0.07632	0.0019079

JW 4.14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d
Report Date: 14-Apr-2006 15:47

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d
Lab Smp Id: H2G911AA Client Smp ID: G-3009-R2-VOST PAIR
Inj Date : 07-APR-2006 16:44
Operator : 22980 Inst ID: mz.i
Smp Info : H2G911AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:02 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	644285	10.0000	
* 2 Chlorobenzene-d5	119	8.940	8.937	(1.000)	166790	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.492	(1.000)	228054	10.0000	
$ 4 Dibromofluoromethane	113	4.828	4.831	(0.851)	106600	10.3257	0.25814
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.924)	87925	9.84884	0.24622
$ 6 Toluene-d8	98	7.462	7.465	(0.835)	648579	8.85014	0.22125
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	206276	8.96879	0.22422
10 Dichlorodifluoromethane	85	1.007	1.016	(0.178)	11052	0.70275	0.017569
11 Chloromethane (spcc)	50	1.123	1.126	(0.198)	108144	2.42298	0.060574
15 Bromomethane	94	1.403	1.418	(0.247)	1971	1.12112	0.028028(M)
22 Acetone	43	2.133	2.123	(0.376)	2445	3.88122	0.097030
23 *Iodomethane	142	2.194	2.184	(0.387)	329	0.54180	0.013545
27 Methylene Chloride	84	2.516	2.513	(0.443)	8348	0.77473	0.019368
40 Chloroform (ccc)	83	4.615	4.618	(0.813)	1785	0.07668	0.0019170
44 Benzene	78	5.302	5.305	(0.935)	5728	0.09017	0.0022541(M)
46 Trichloroethene	130	6.111	6.114	(1.077)	6633	0.37113	0.0092781

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d
Report Date: 14-Apr-2006 15:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
54 Toluene (ccc)	91	7.529	7.532	(0.842)	13094	0.13795	0.0034486
63 Chlorobenzene (spcc)	112	8.964	8.961	(1.003)	6028	0.11378	0.0028445
85 1,4-Dichlorobenzene	146	11.526	11.528	(1.003)	2833	0.07629	0.0019073

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d
Report Date: 07-Apr-2006 17:02

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g911aa.d
Lab Smp Id: H2G911AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3009-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	644285	-32.36
2 Chlorobenzene-d5	164101	82050	328202	166790	1.64
3 1,4 Dichlorobenze	204390	102195	408780	228054	11.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.05
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.03

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d
Report Date: 07-Apr-2006 17:02

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G911AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3009-R2-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

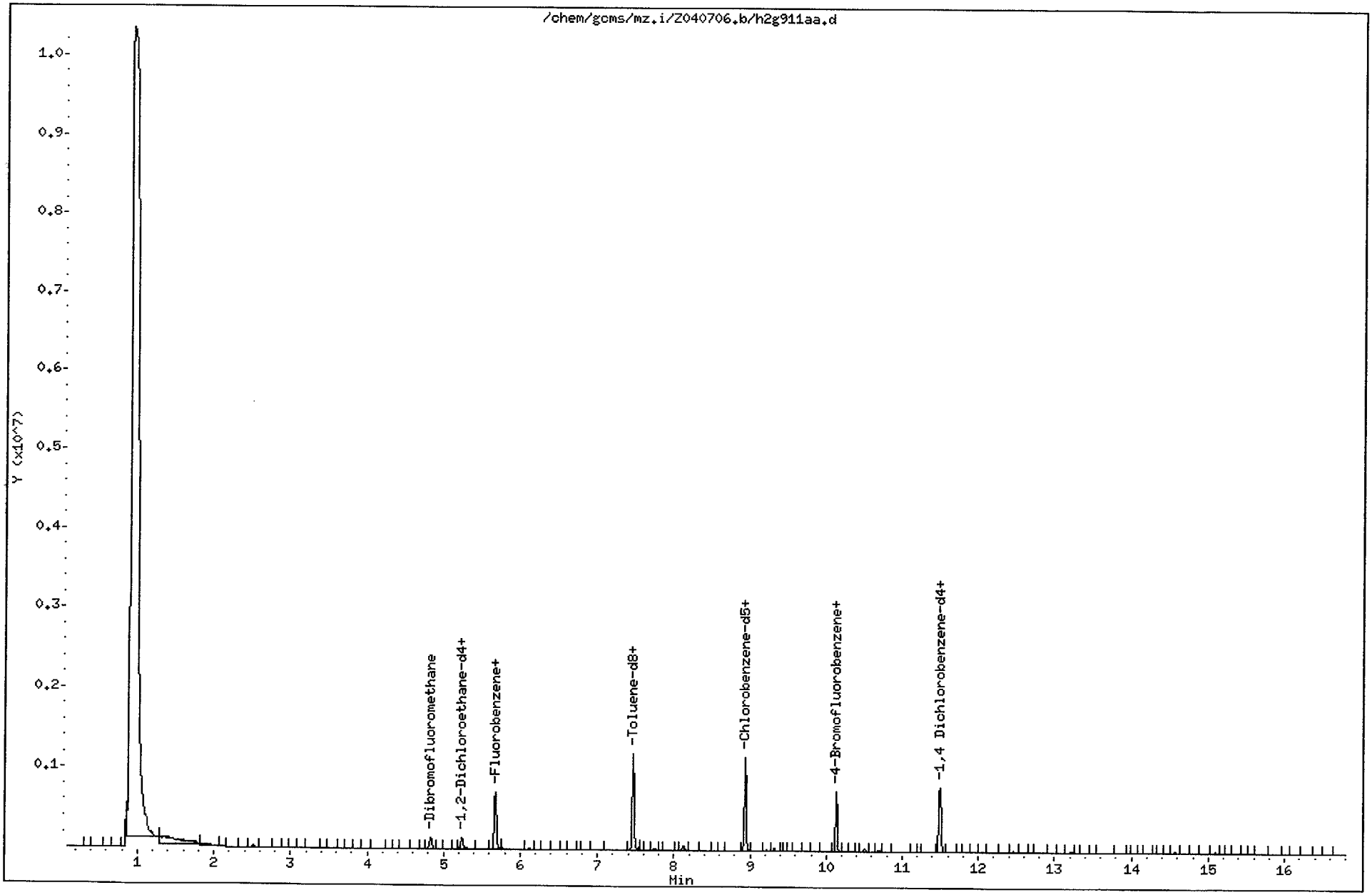
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25814	103.26	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24622	98.49	50-150
$ 6 Toluene-d8	0.25000	0.22125	88.50	50-150
$ 7 4-Bromofluorobenze	0.25000	0.22422	89.69	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d
Date : 07-APR-2006 16:44
Client ID: G-3009-R2-VOST PAIR
Sample Info: H2G911AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

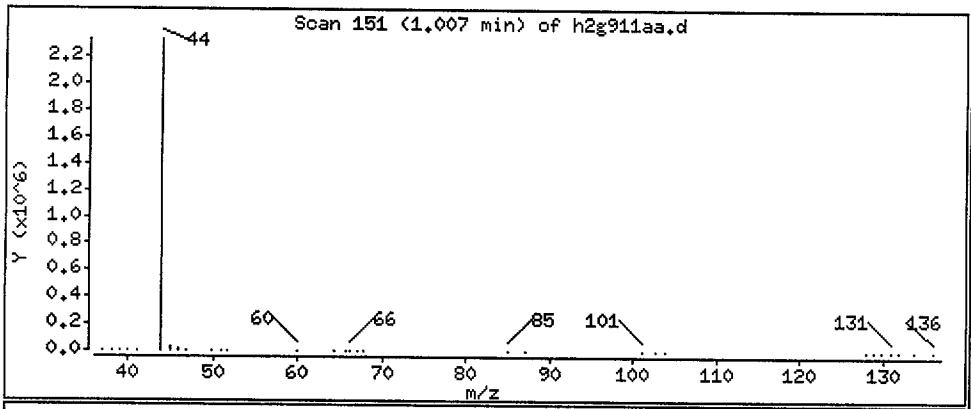
Operator: 22980

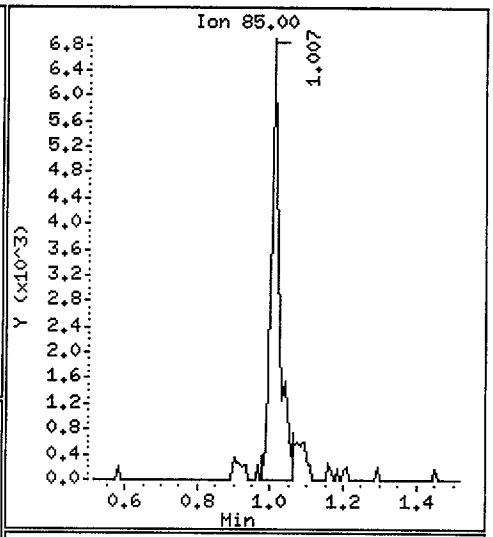
Column phase: J+W 624

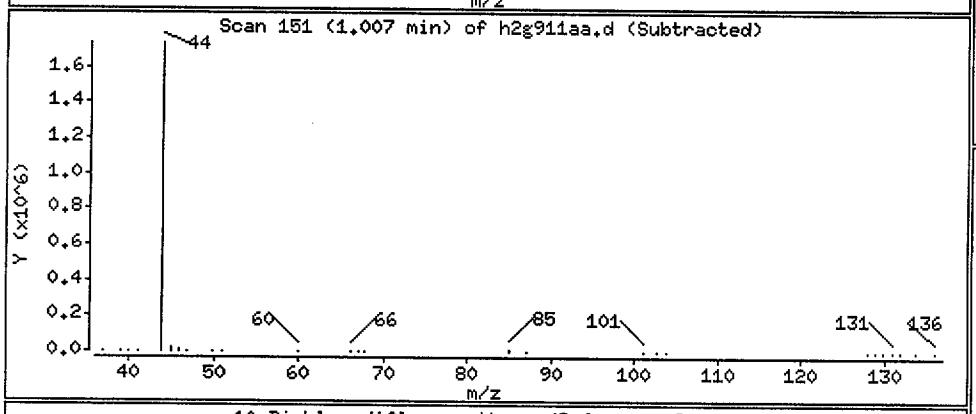
Column diameter: 0.18

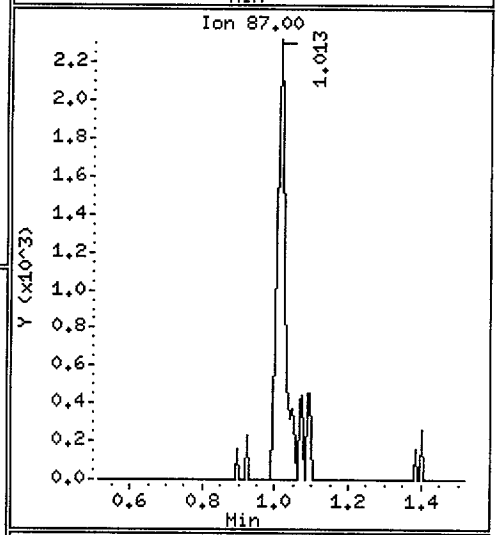
10 Dichlorodifluoromethane

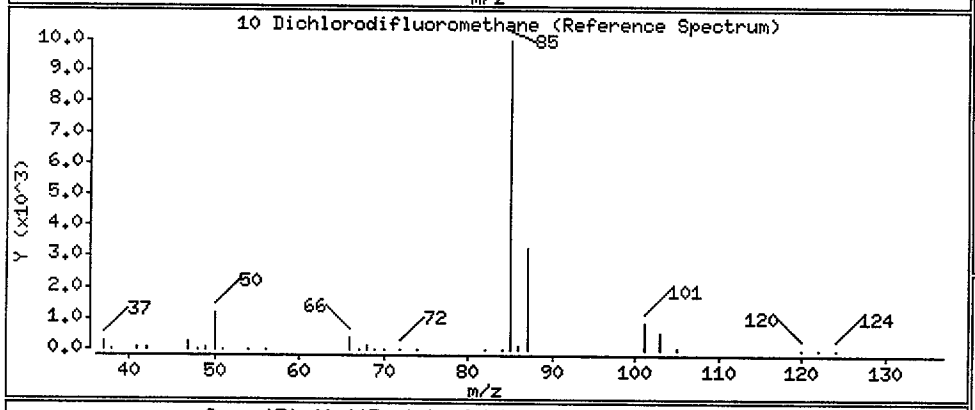
Concentration: 0.017569 ug

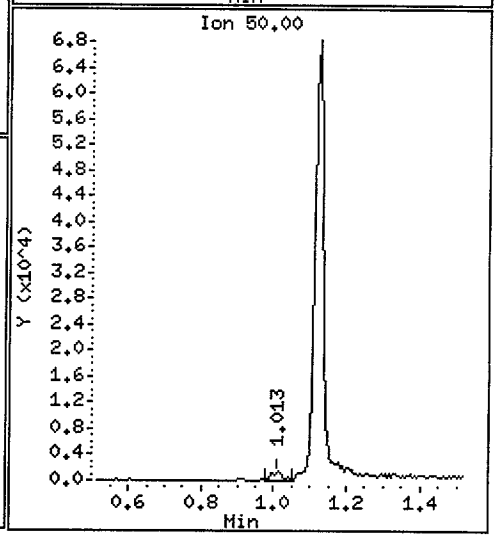


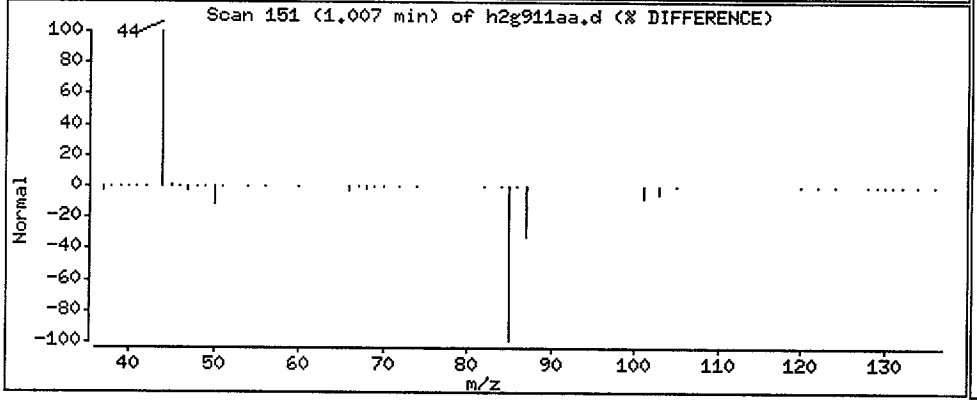












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

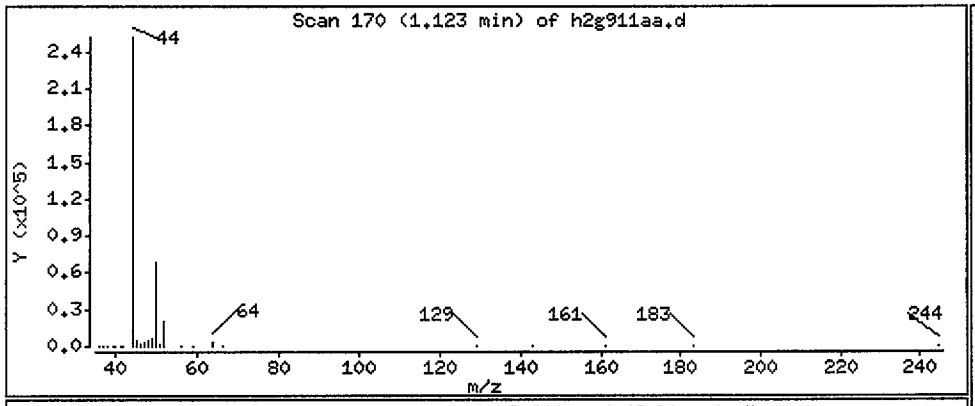
Operator: 22980

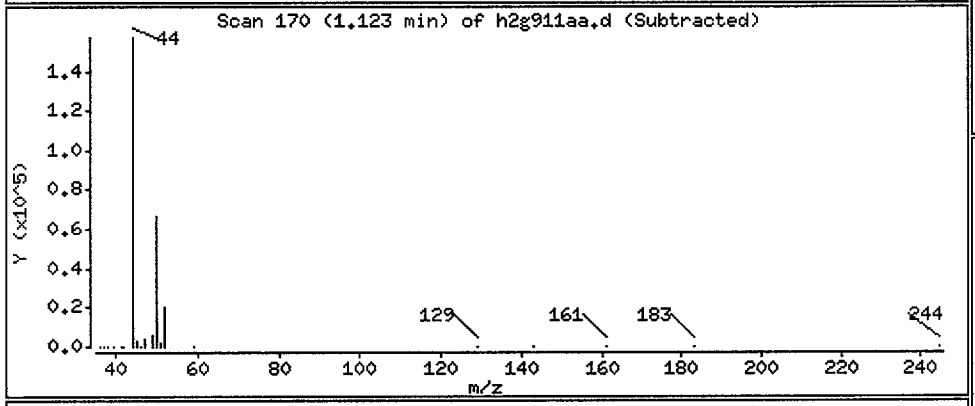
Column phase: J+W 624

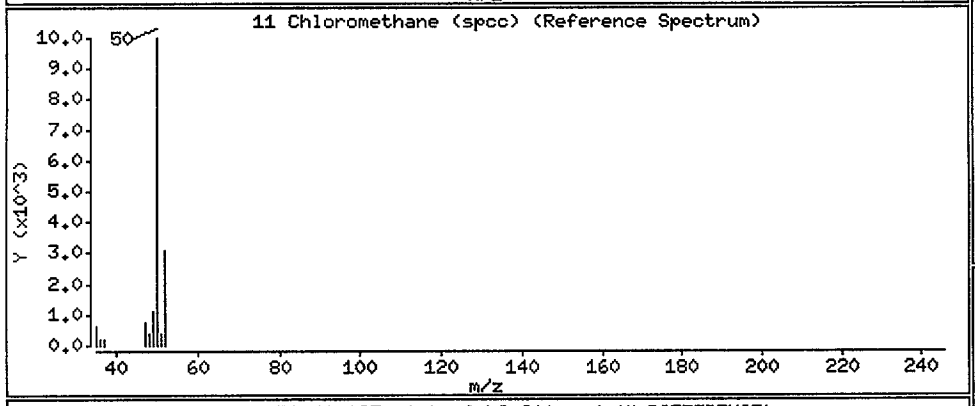
Column diameter: 0.18

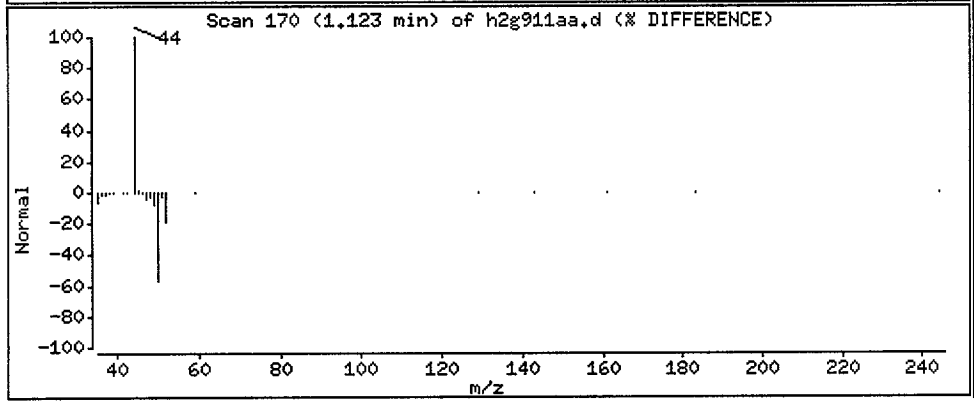
11 Chloromethane (spcc)

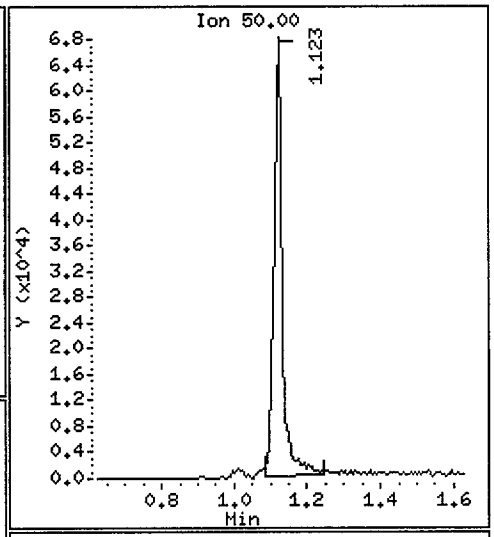
Concentration: 0.060575 ug

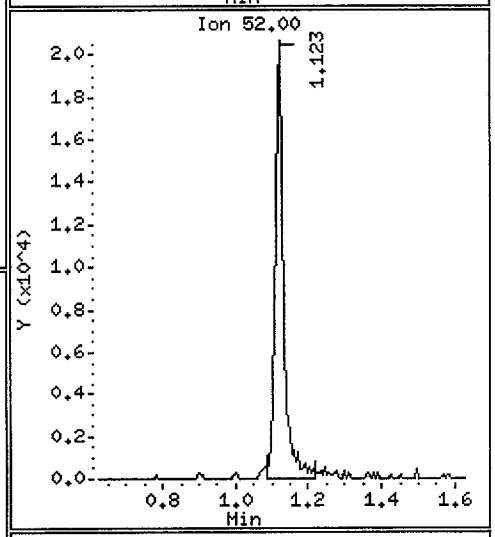


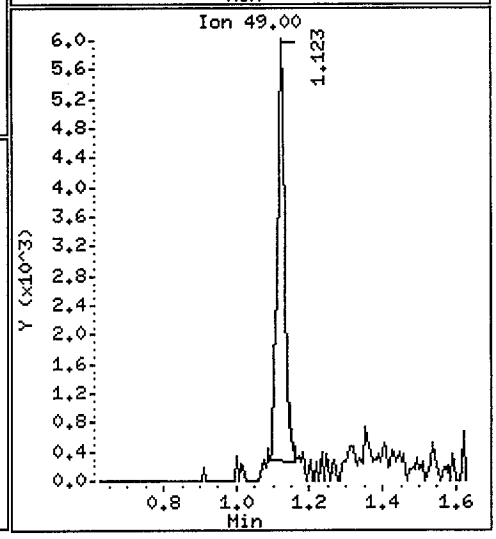












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

Operator: 22980

Column phase: J+W 624

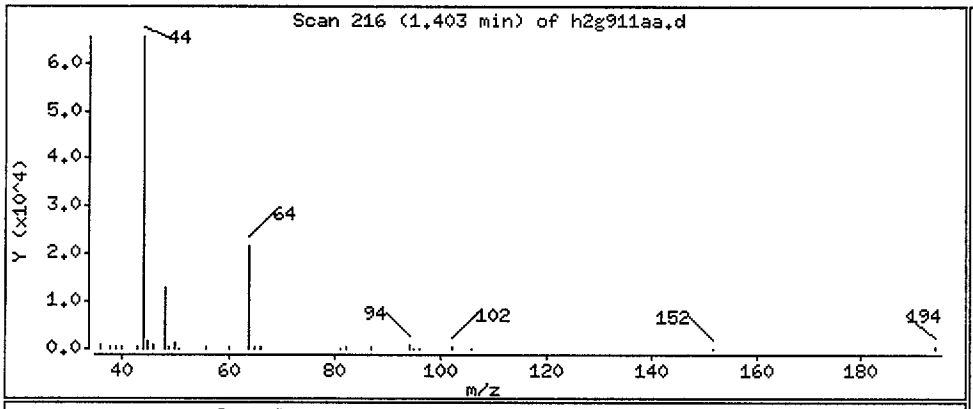
Column diameter: 0.18

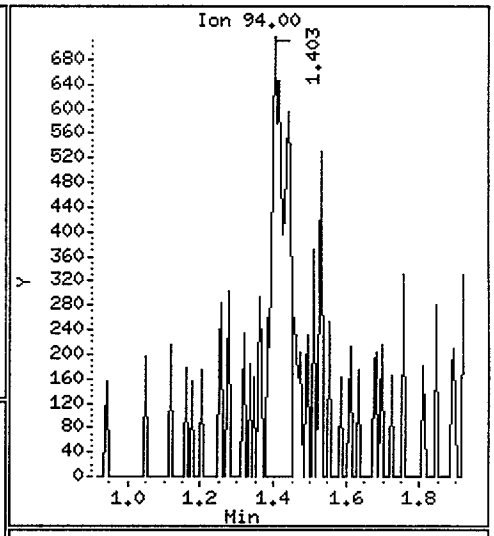
DW 4-14-06

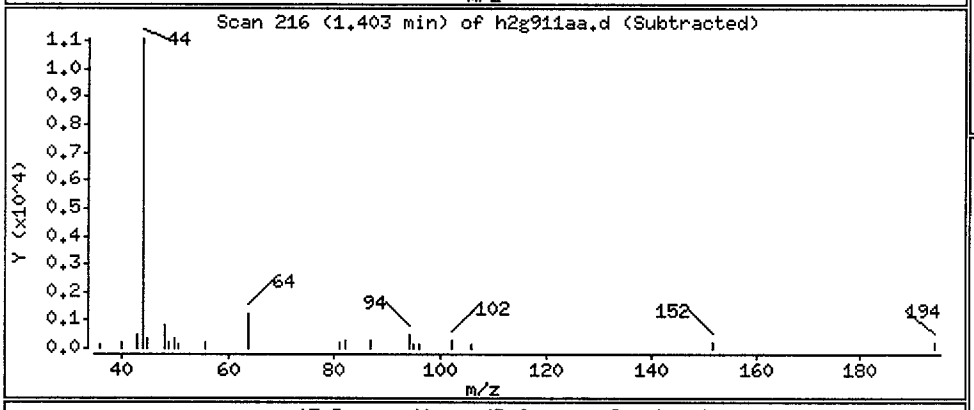
1

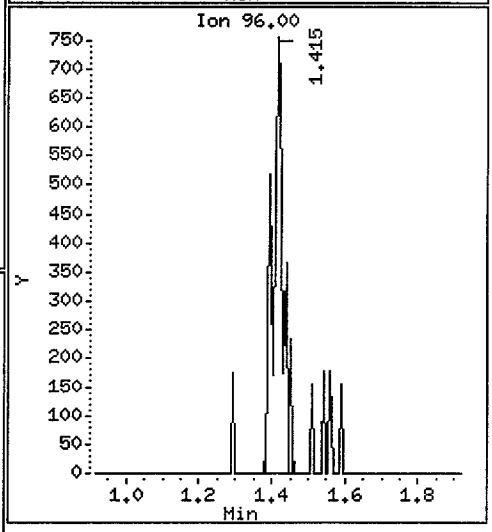
15 Bromomethane

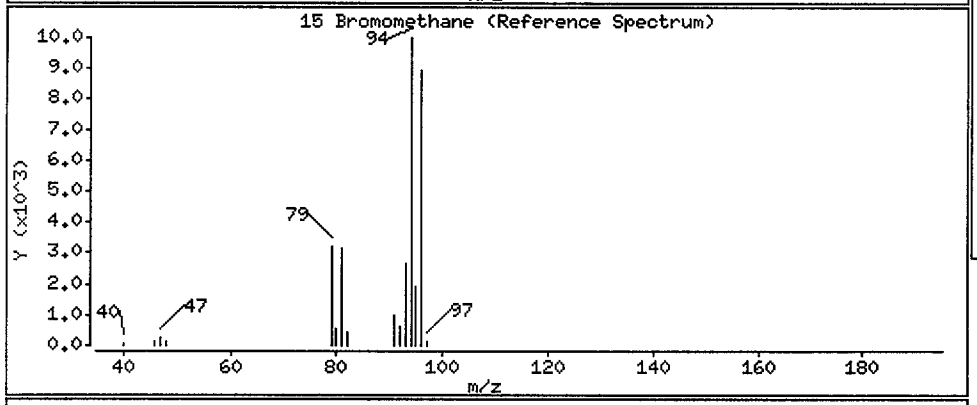
Concentration: 0.028028 ug

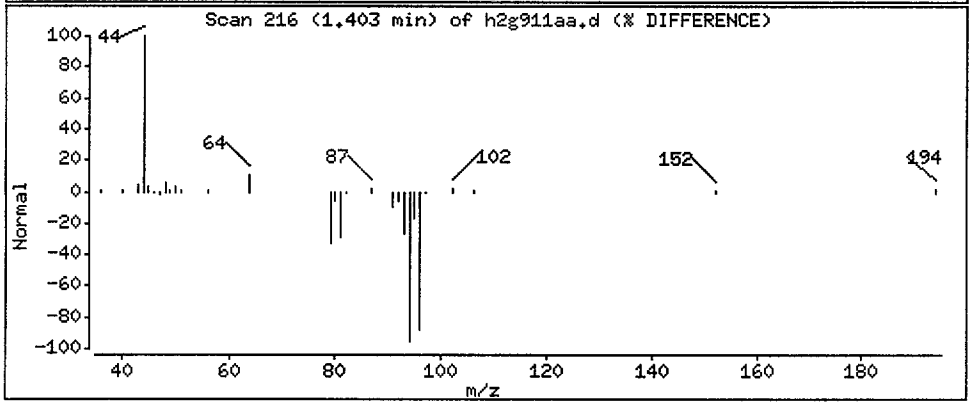












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

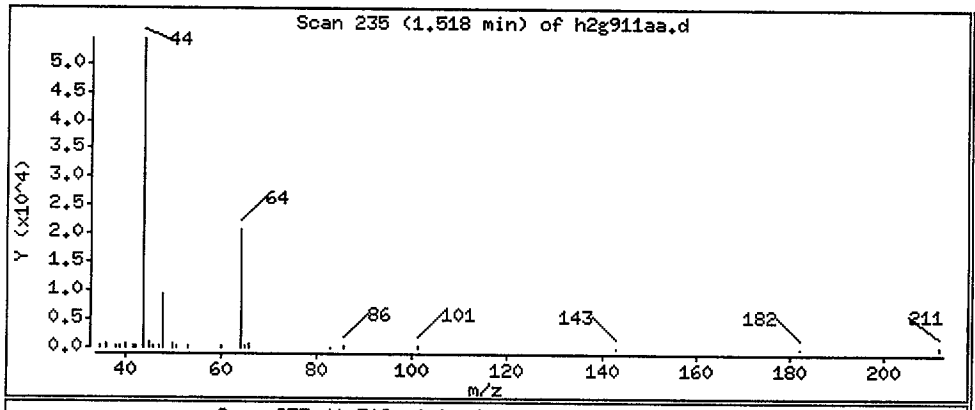
Operator: 22980

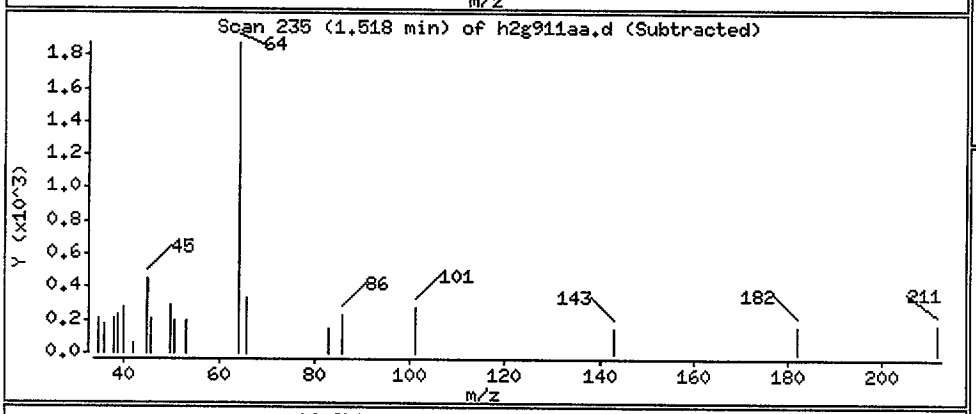
Column phase: J+W 624

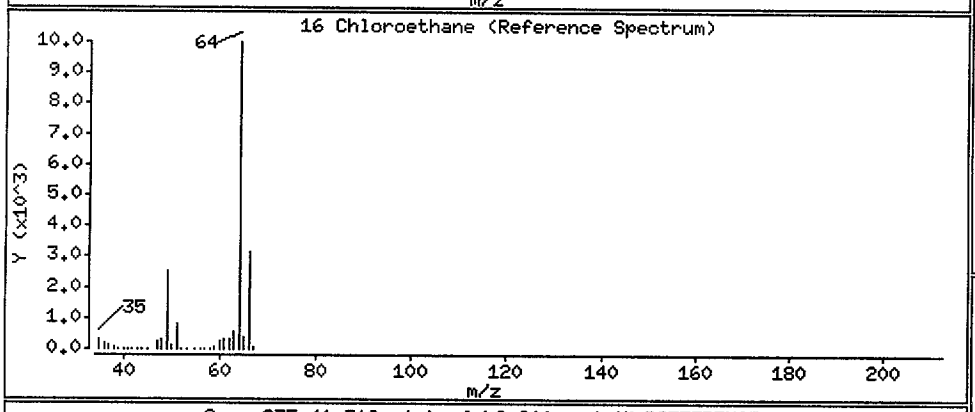
Column diameter: 0.18

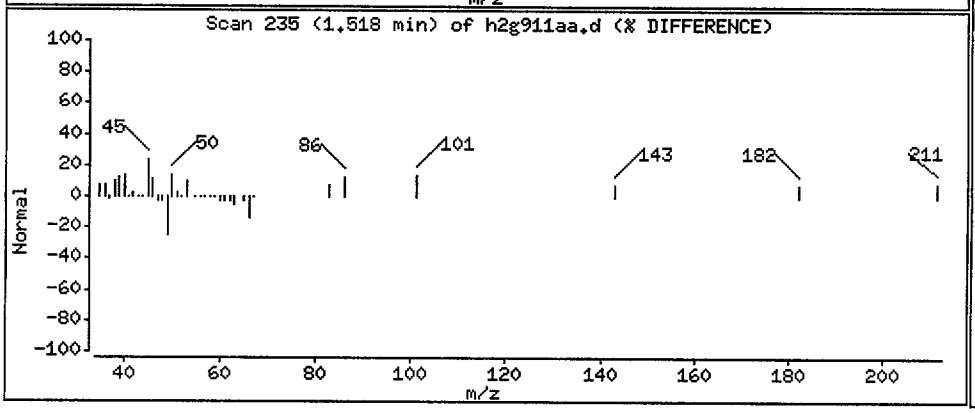
16 Chloroethane

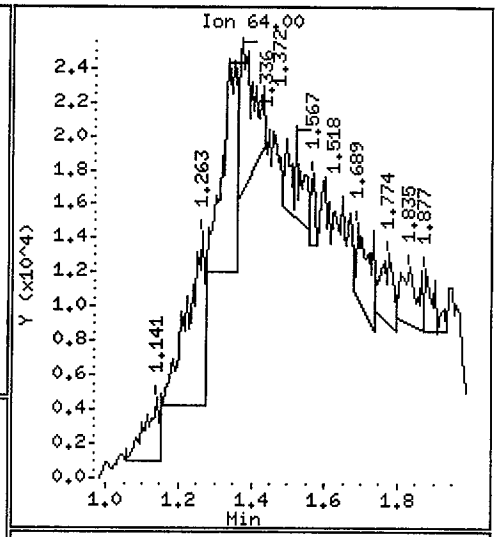
Concentration: 0.024612 ug

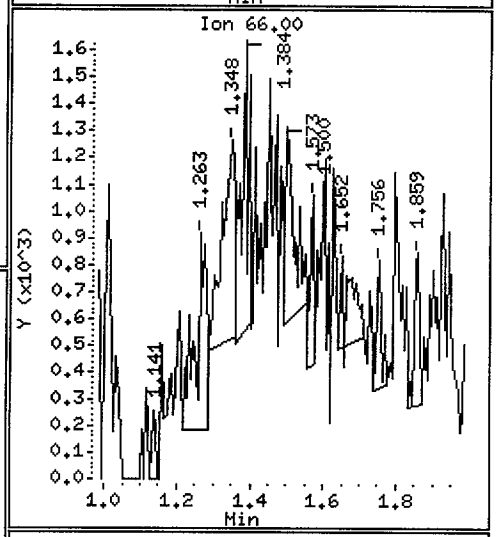


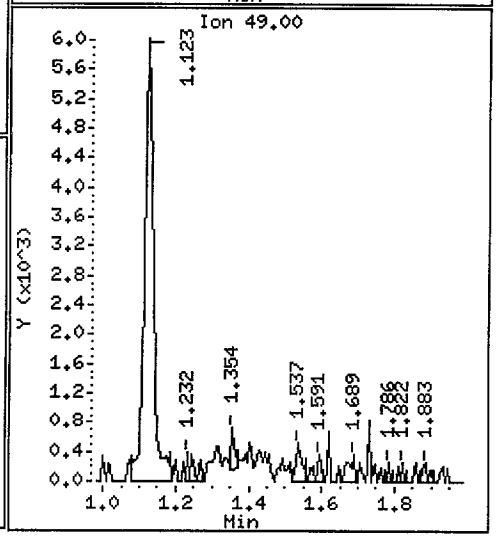












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

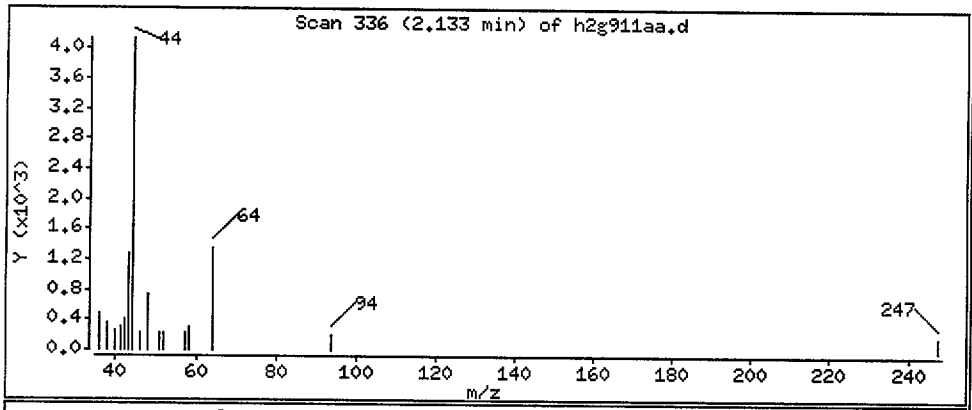
Operator: 22980

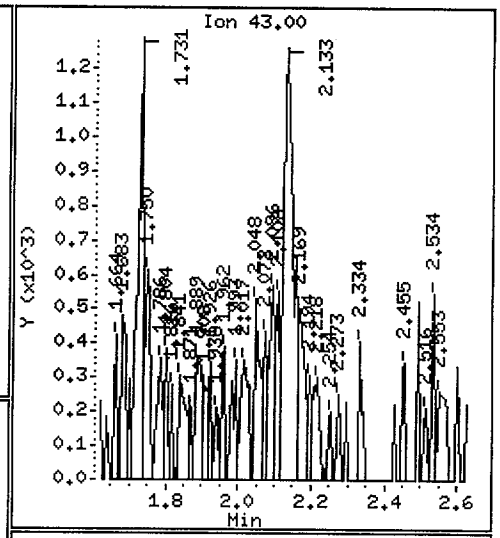
Column phase: J+W 624

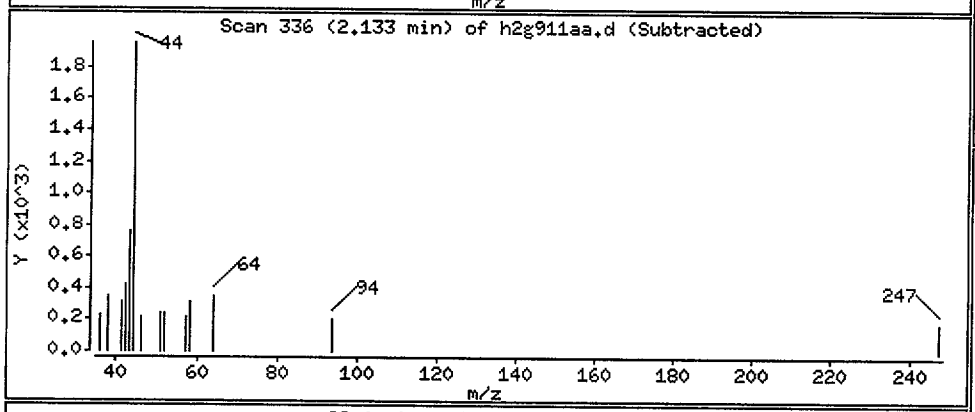
Column diameter: 0.18

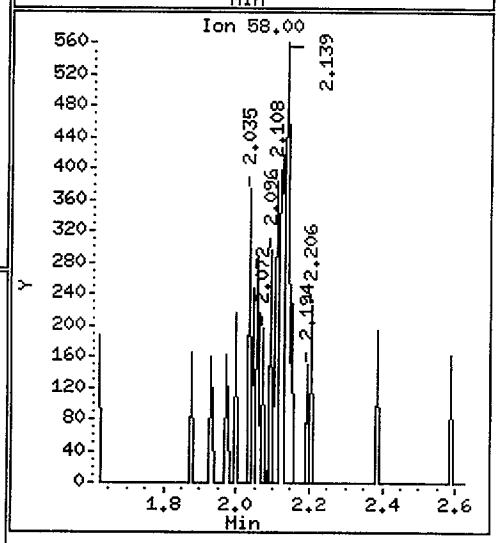
22 Acetone

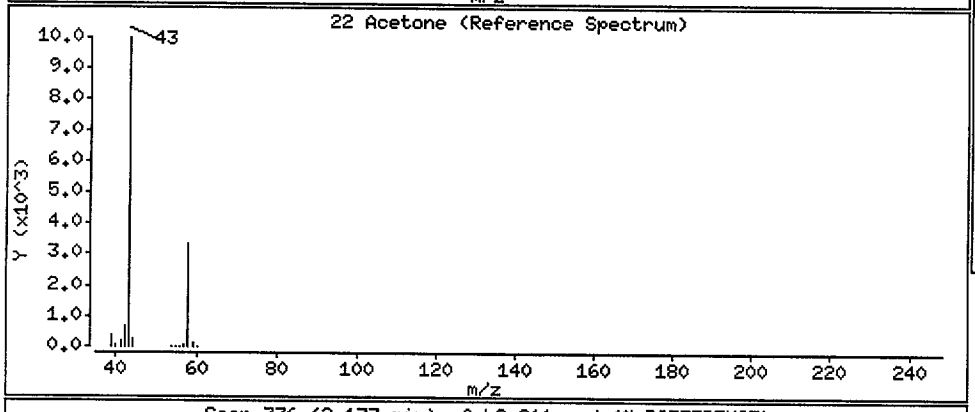
Concentration: 0.097036 ug

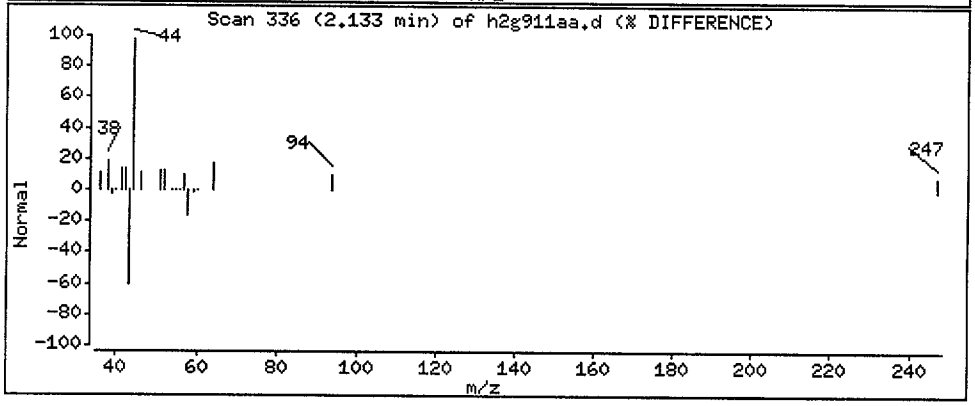












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

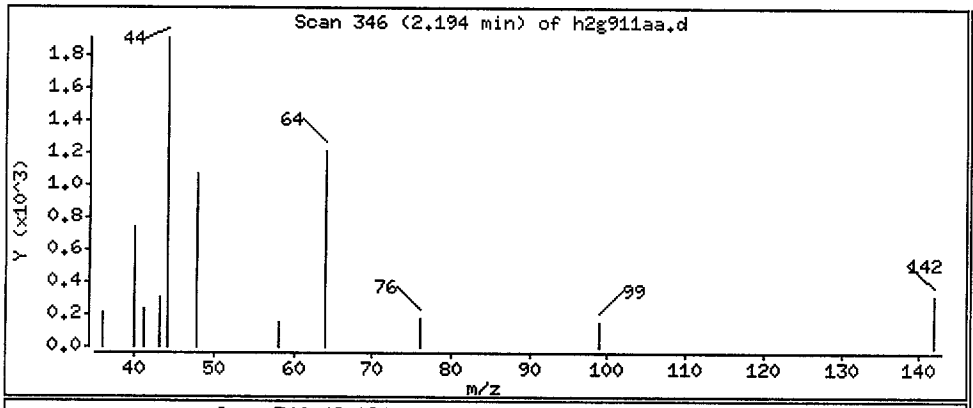
Operator: 22980

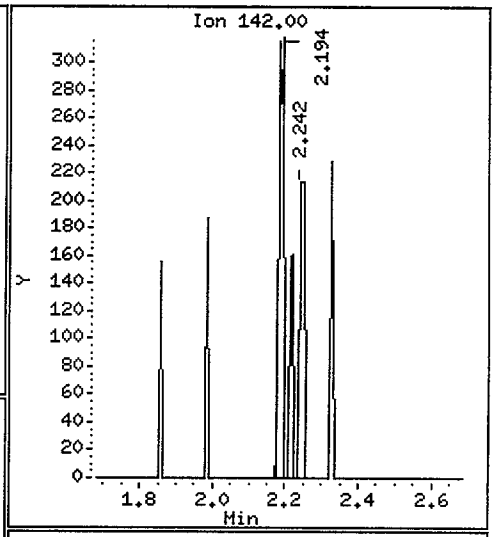
Column phase: J+W 624

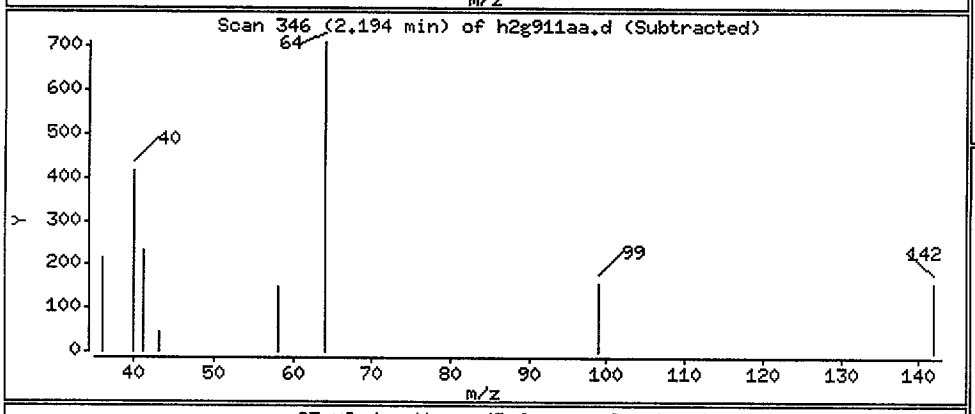
Column diameter: 0.18

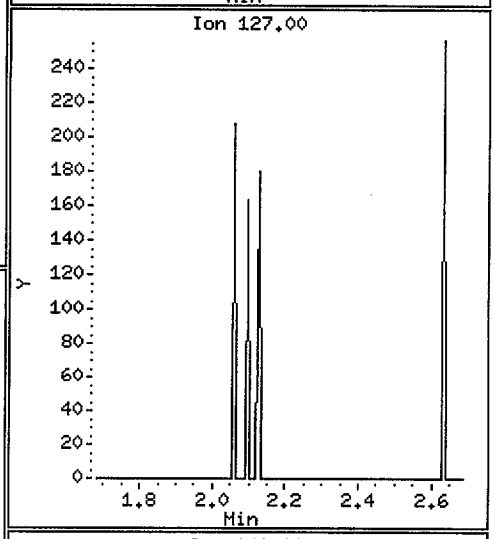
23 *Iodomethane

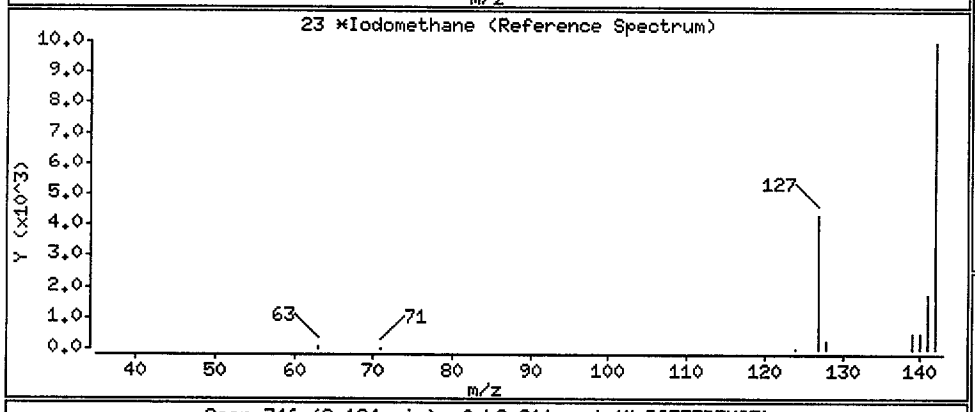
Concentration: 0.013546 ug

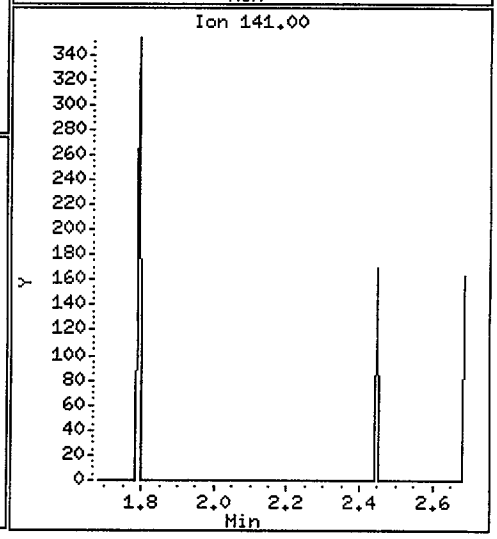


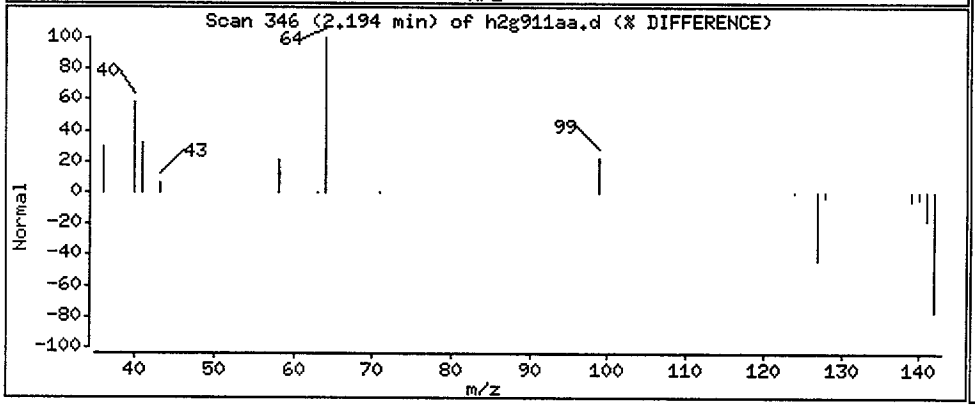












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

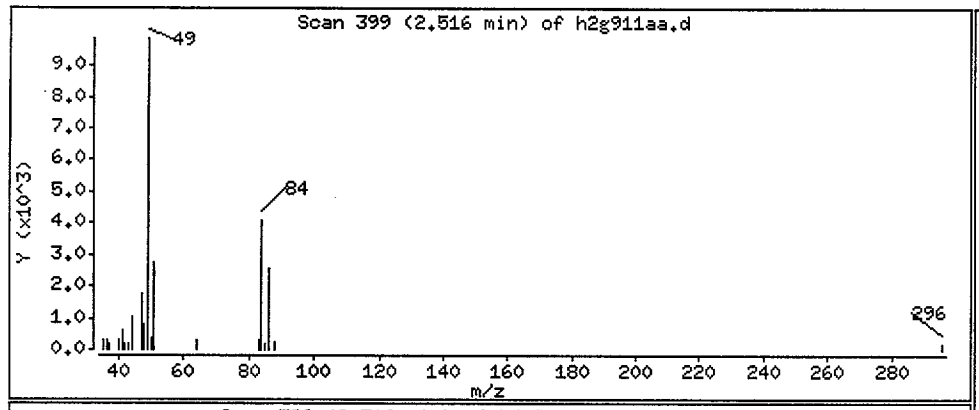
Operator: 22980

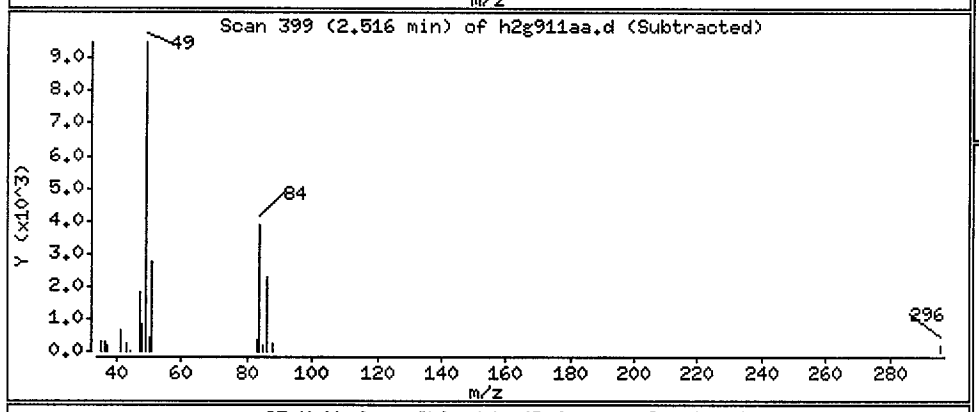
Column phase: J+W 624

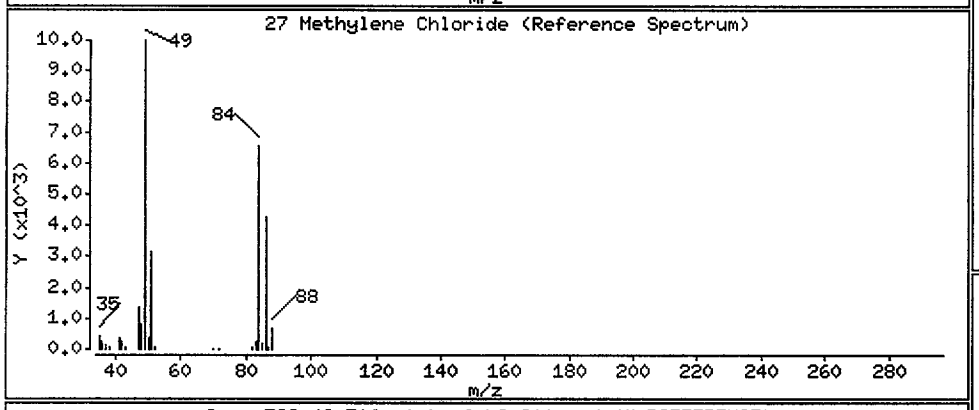
Column diameter: 0.18

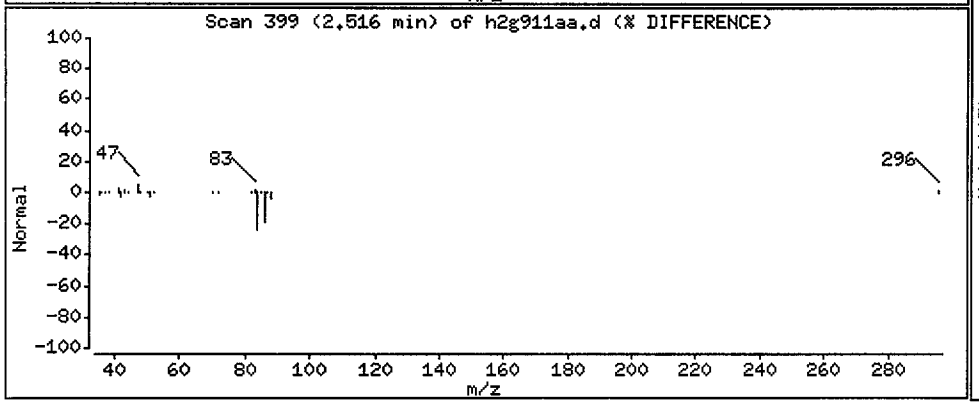
27 Methylene Chloride

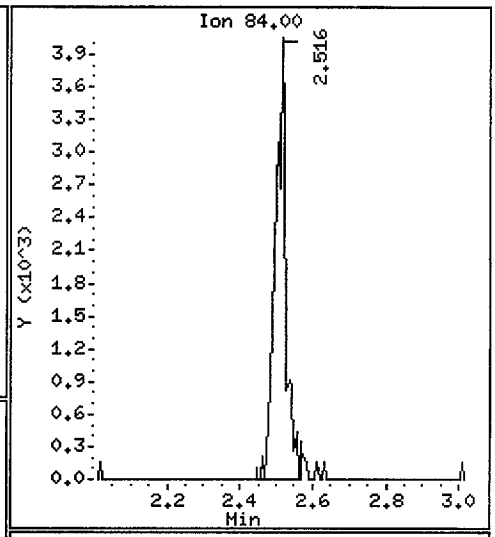
Concentration: 0.019369 ug

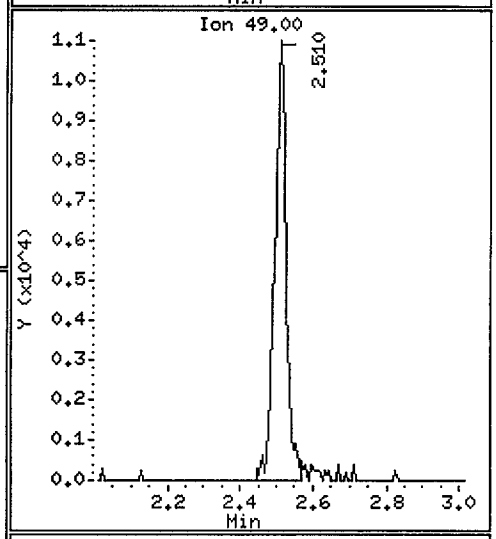


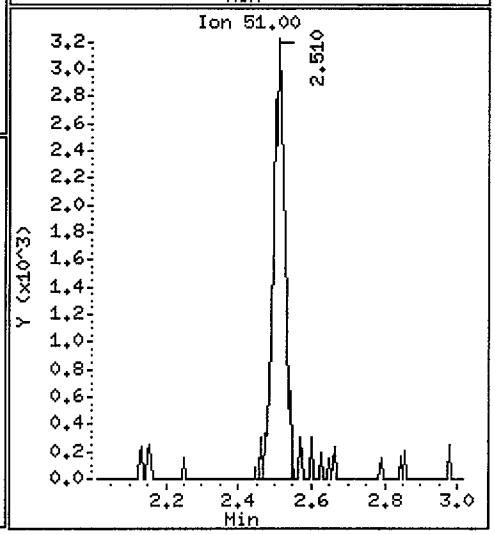












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

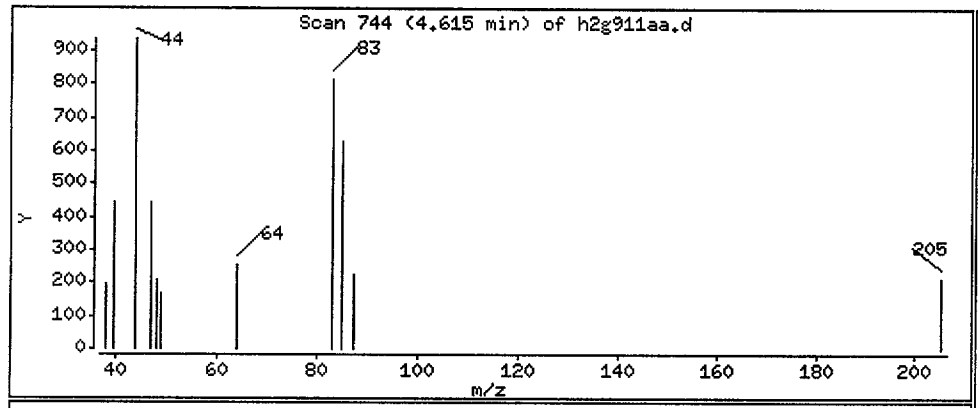
Operator: 22980

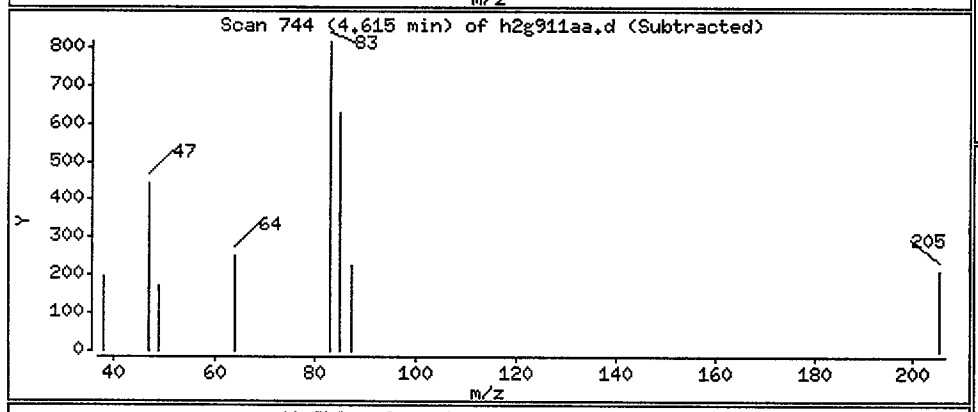
Column phase: J+W 624

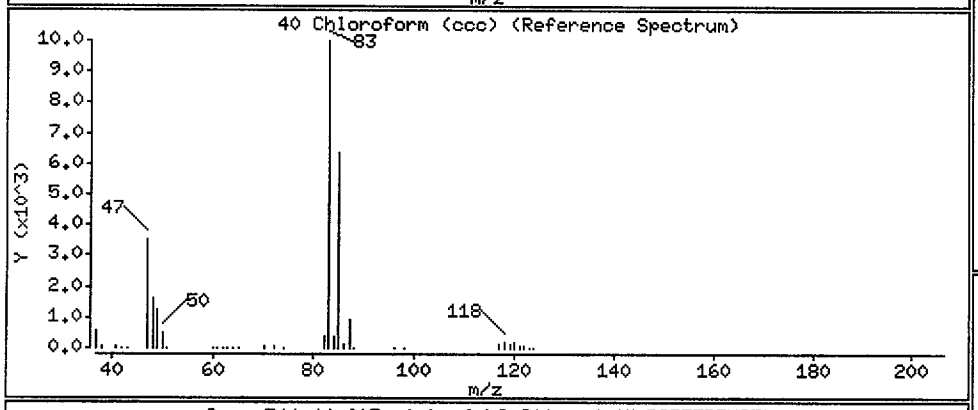
Column diameter: 0.18

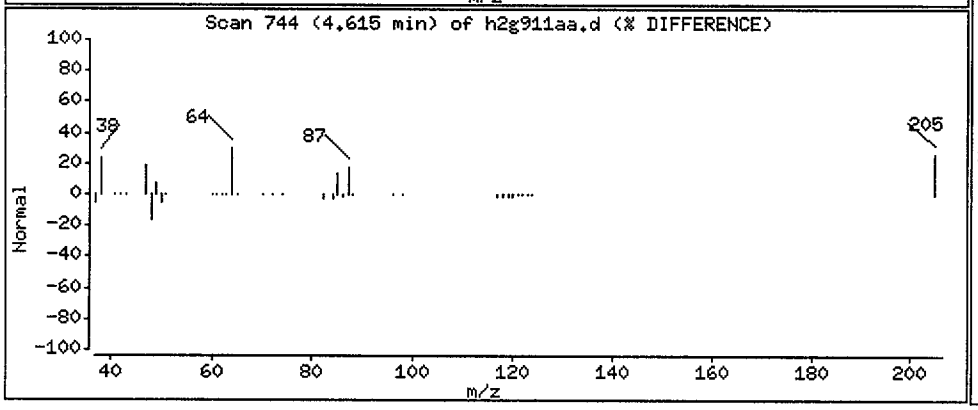
40 Chloroform (ccc)

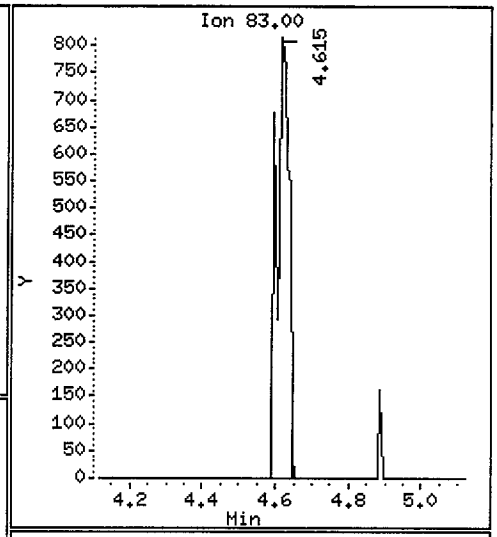
Concentration: 0.0019180 ug

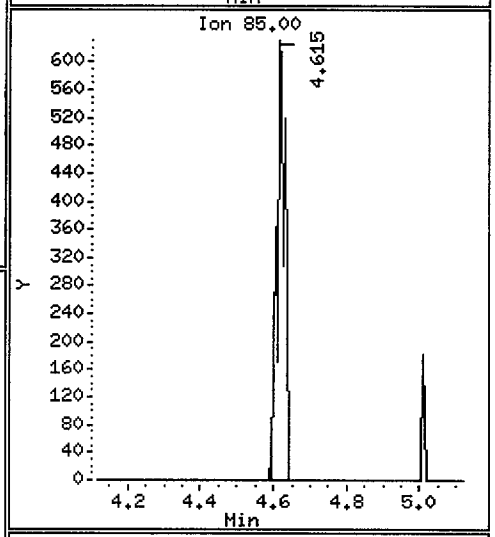


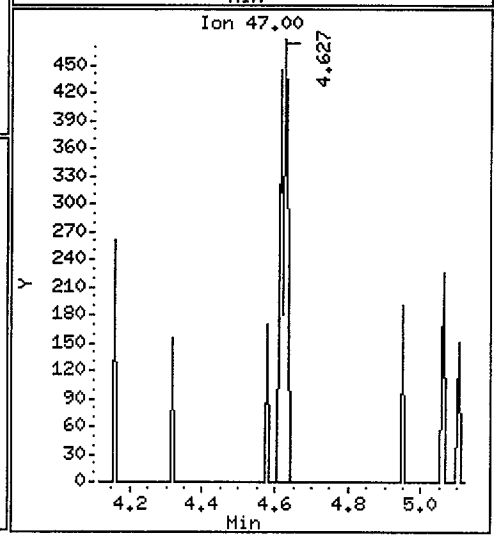












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Sample Info: H2G911AA,1,0,,

Instrument: mz.i

JW 4-14-06

1

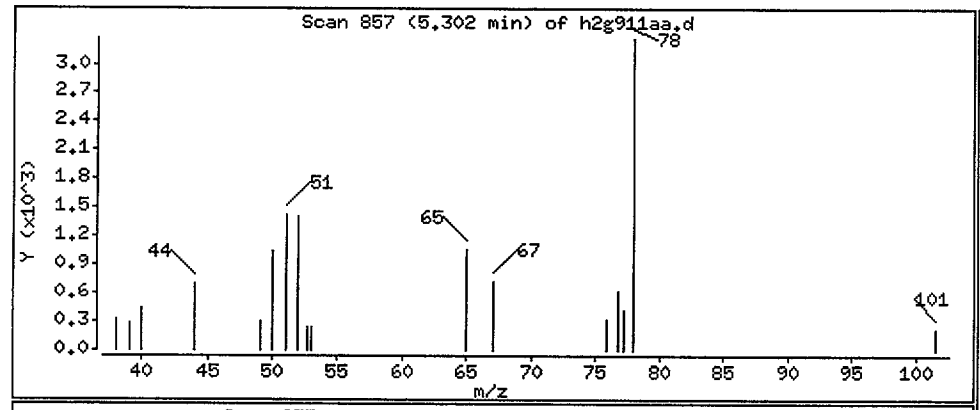
Operator: 22980

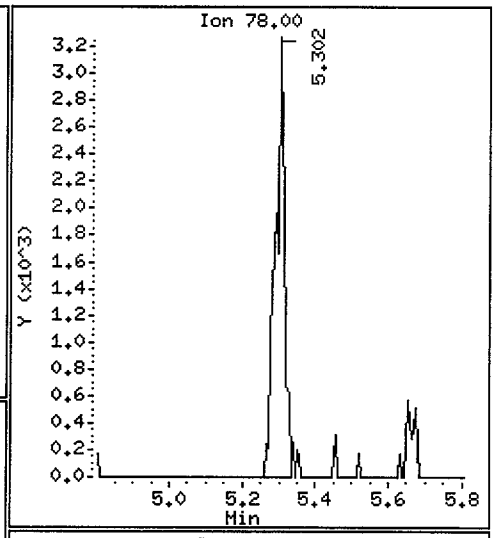
Column phase: J+W 624

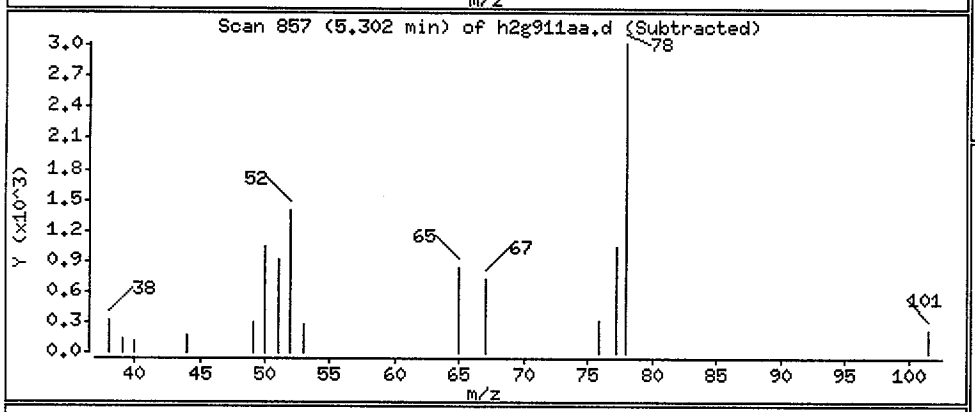
Column diameter: 0.18

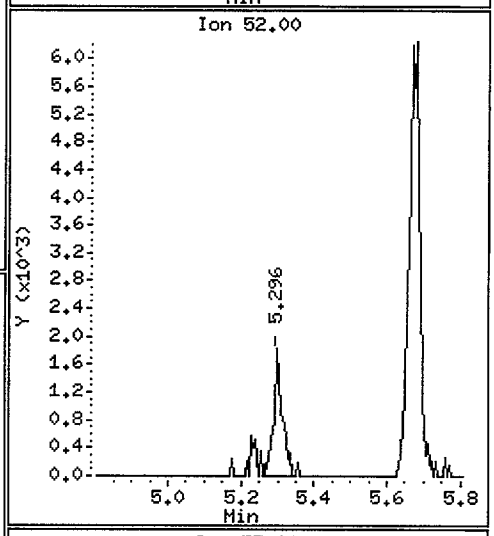
44 Benzene

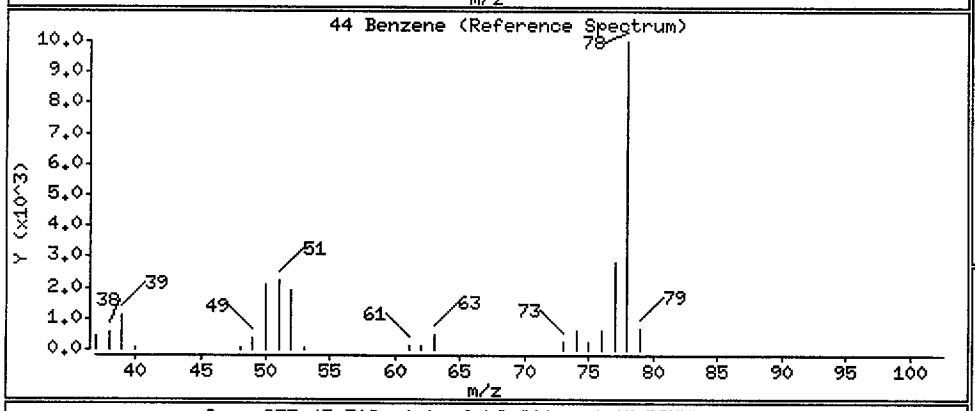
Concentration: 0.0022541 ug

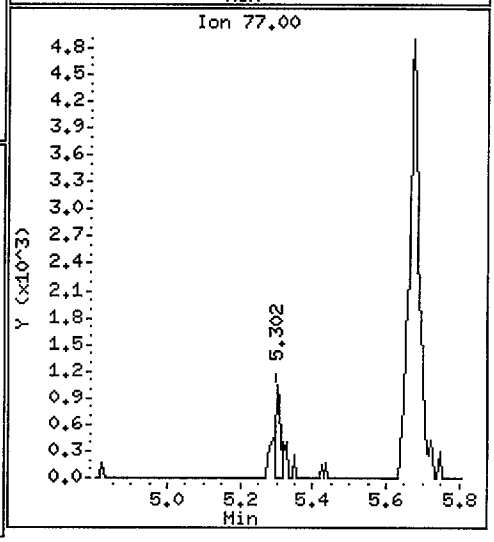


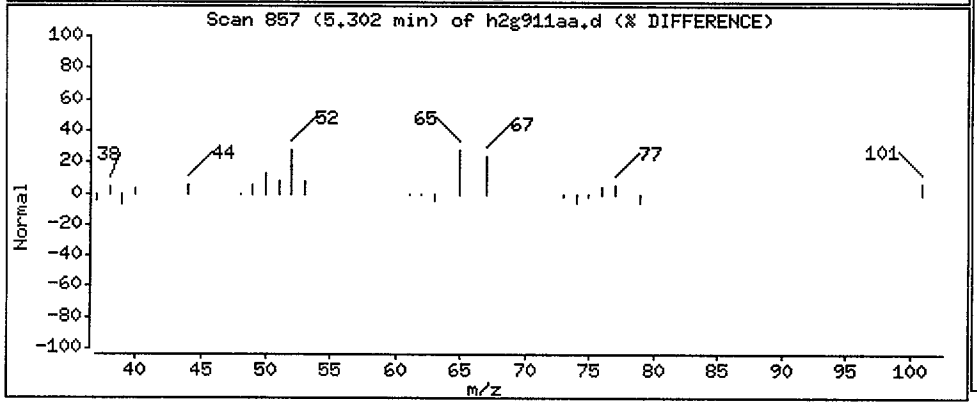












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

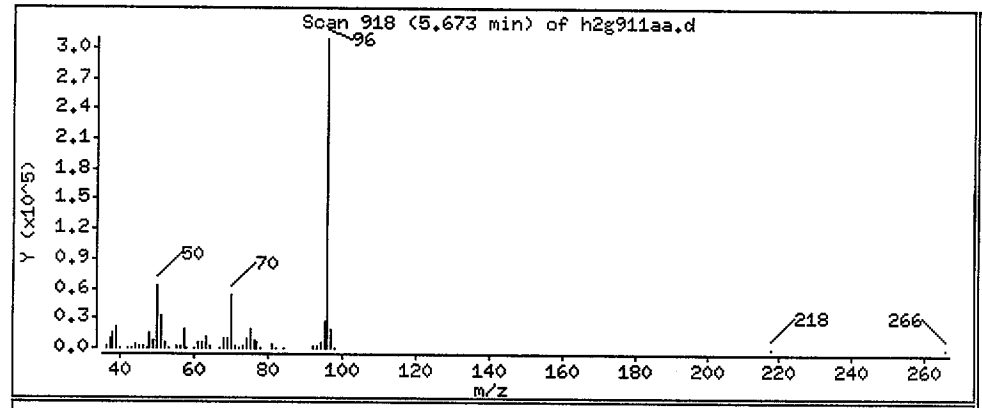
Operator: 22980

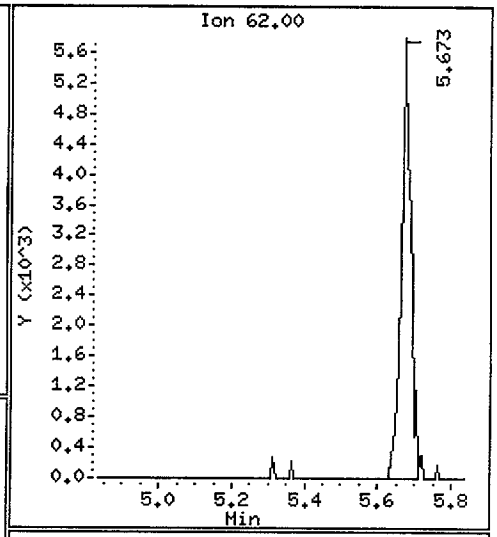
Column phase: J+W 624

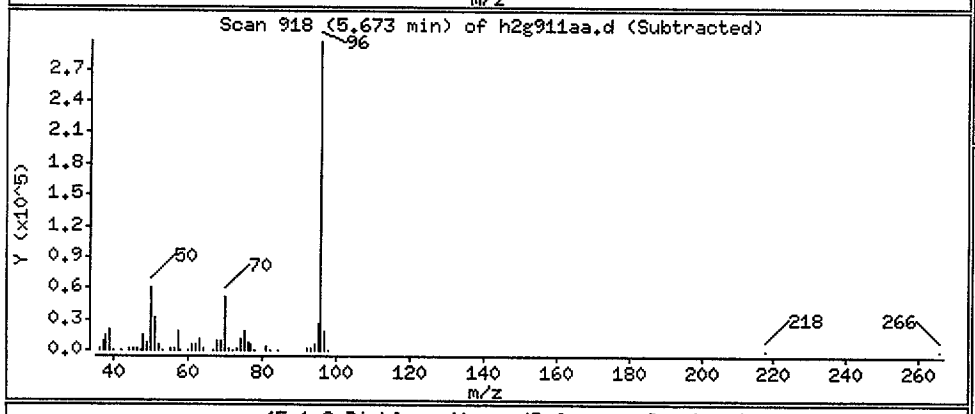
Column diameter: 0.18

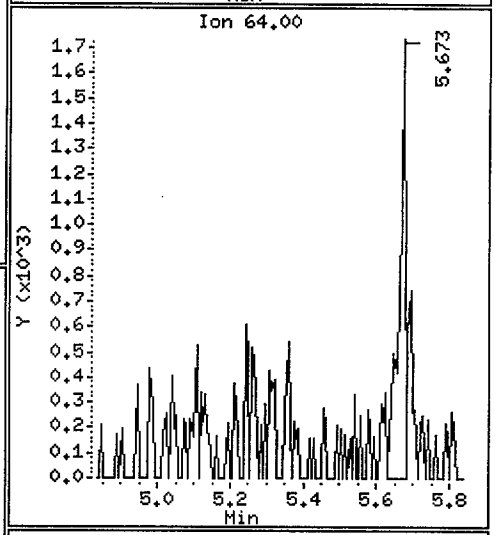
45 1,2-Dichloroethane

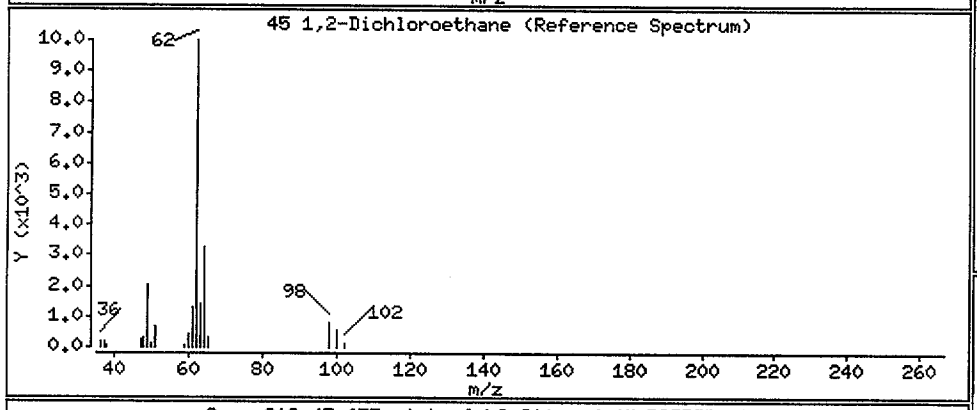
Concentration: 0.018931 ug

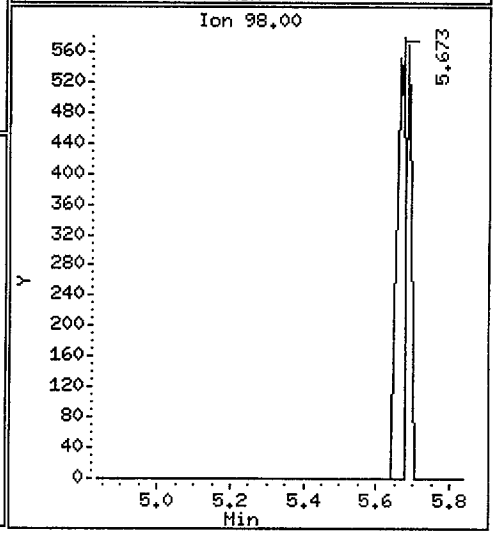


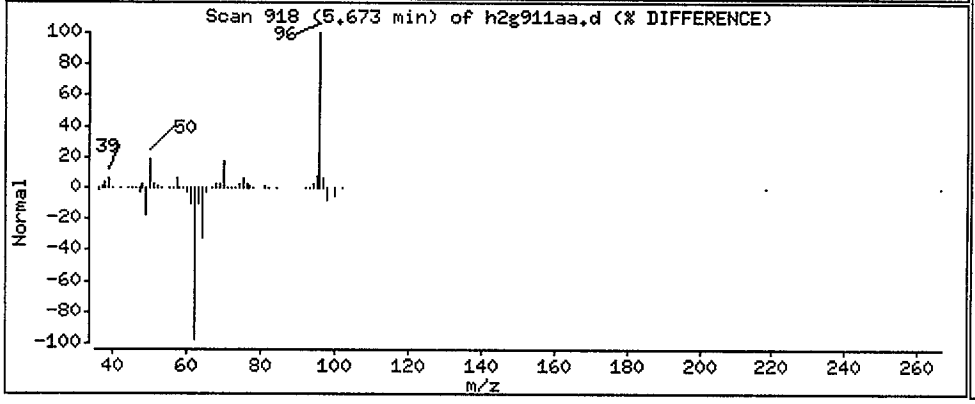












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

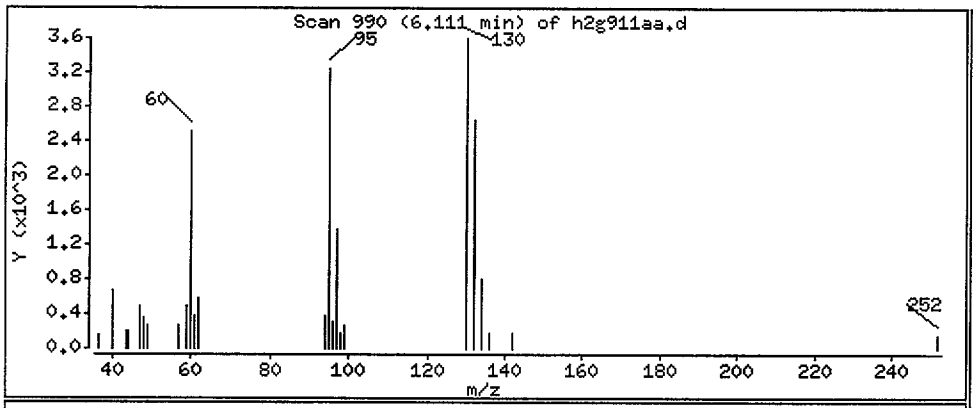
Operator: 22980

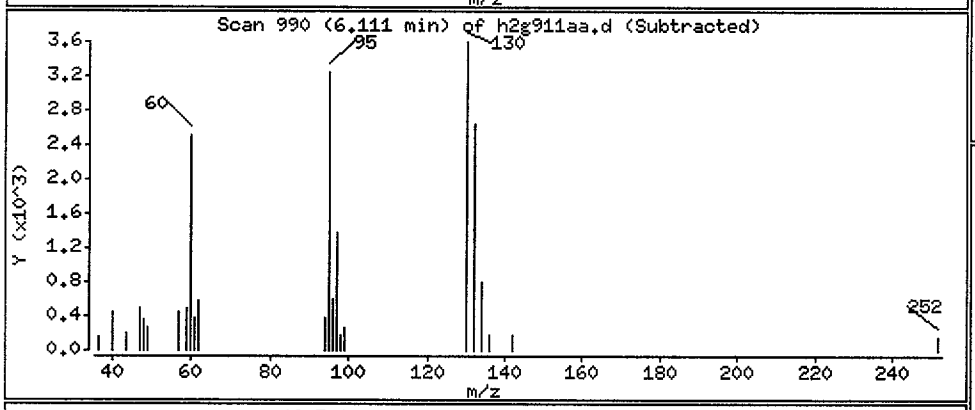
Column phase: J+W 624

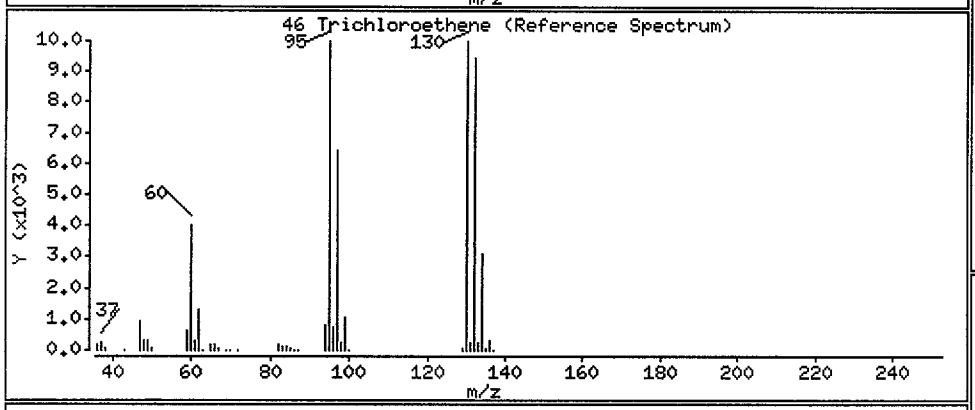
Column diameter: 0.18

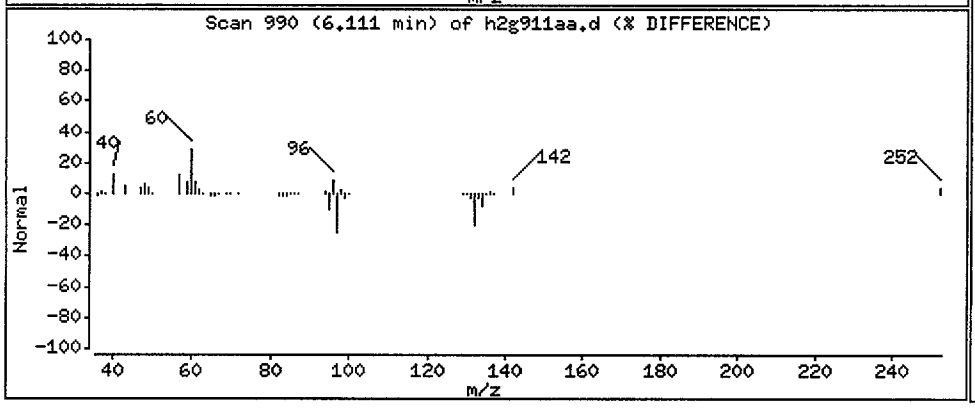
46 Trichloroethene

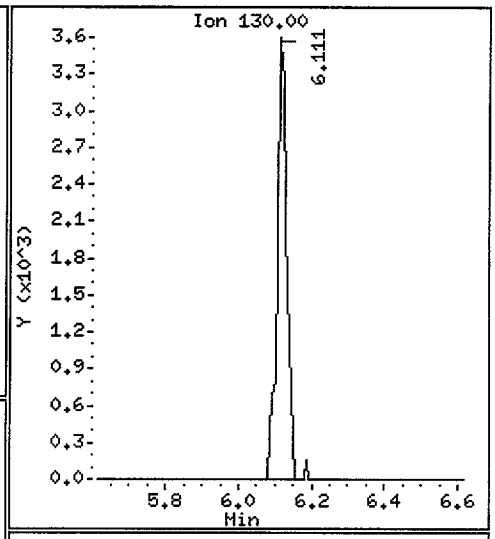
Concentration: 0.0092783 ug

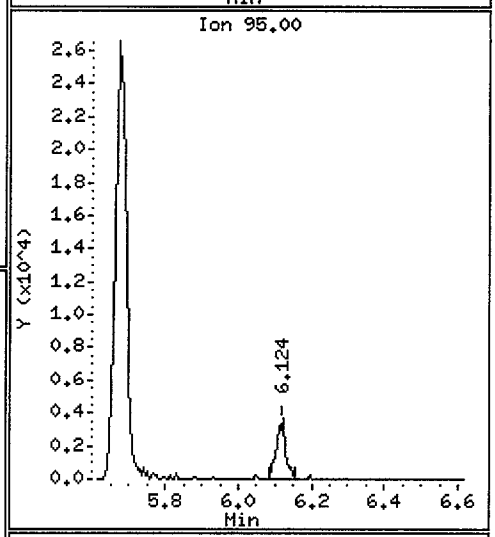


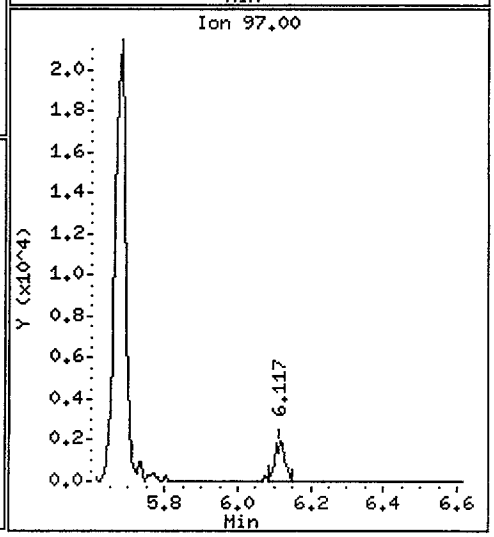












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

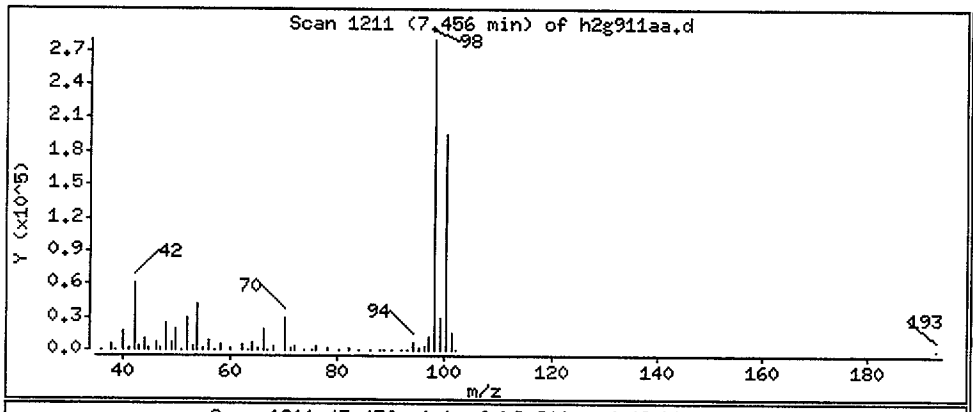
Operator: 22980

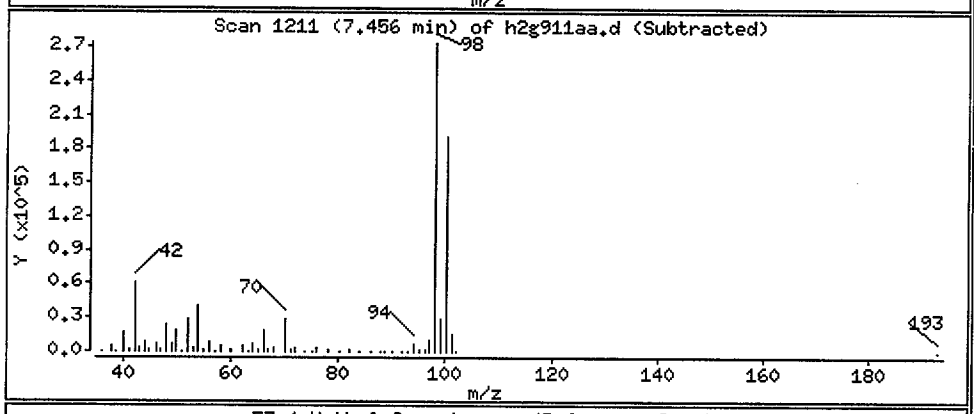
Column phase: J+W 624

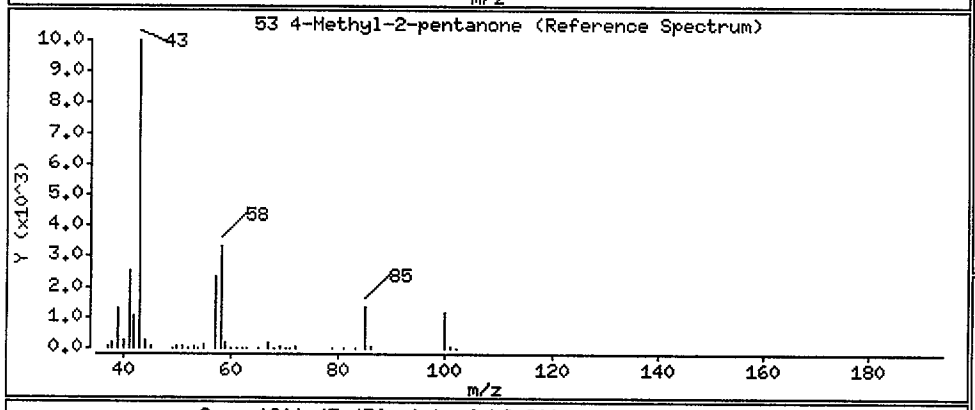
Column diameter: 0.18

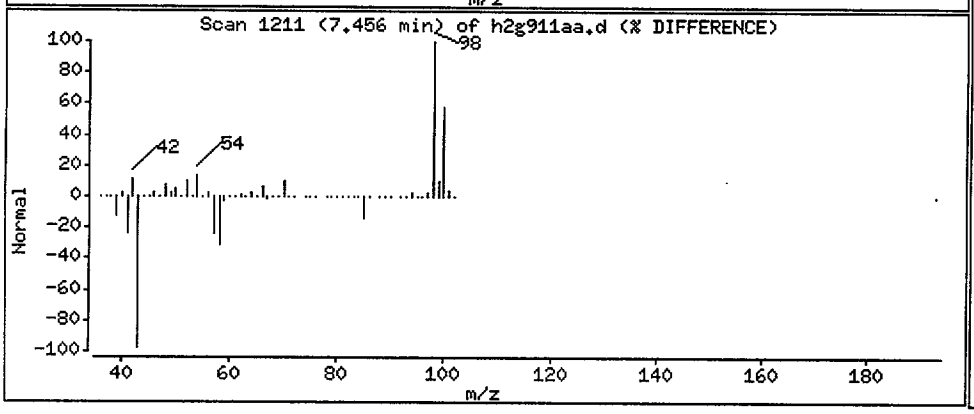
53 4-Methyl-2-pentanone

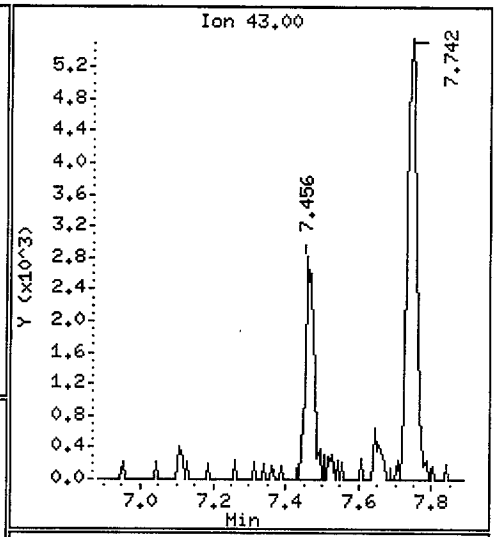
Concentration: 0.021757 ug

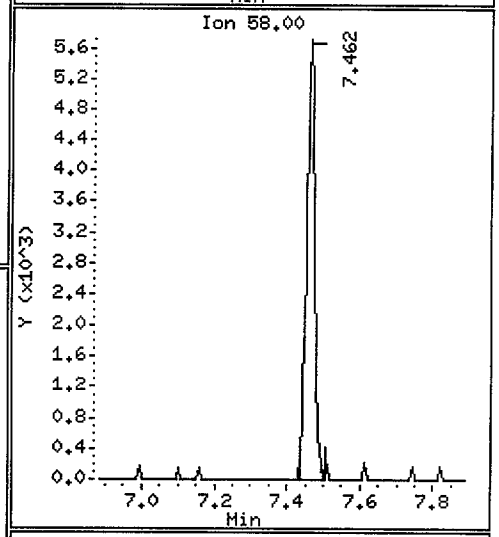


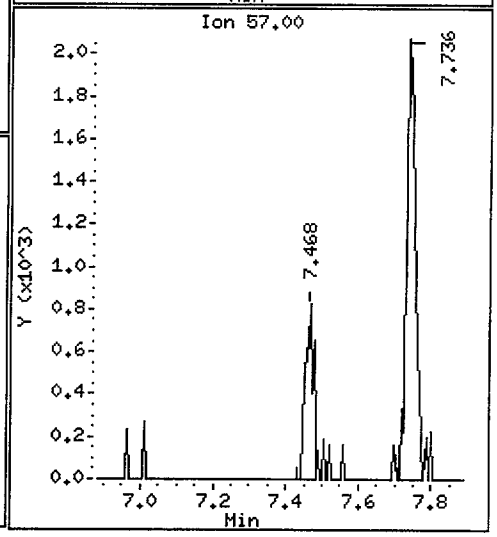












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

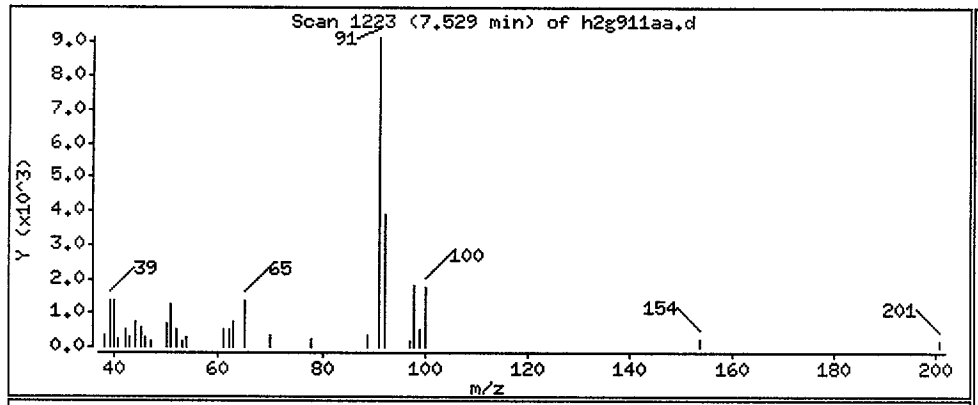
Operator: 22980

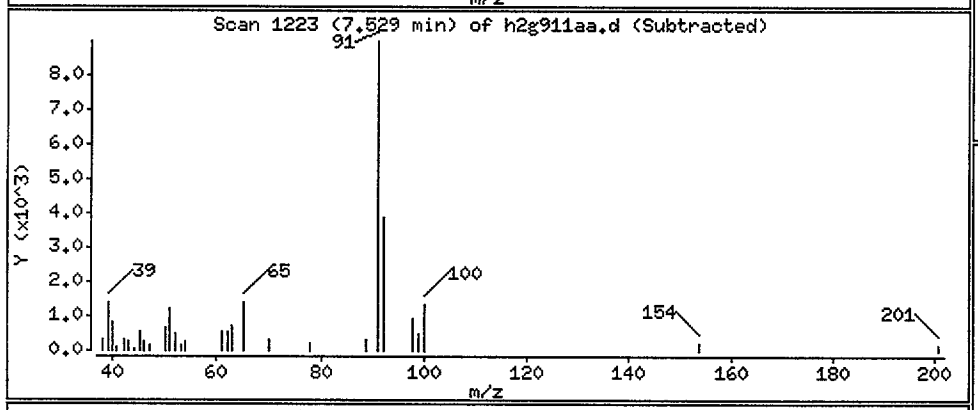
Column phase: J+W 624

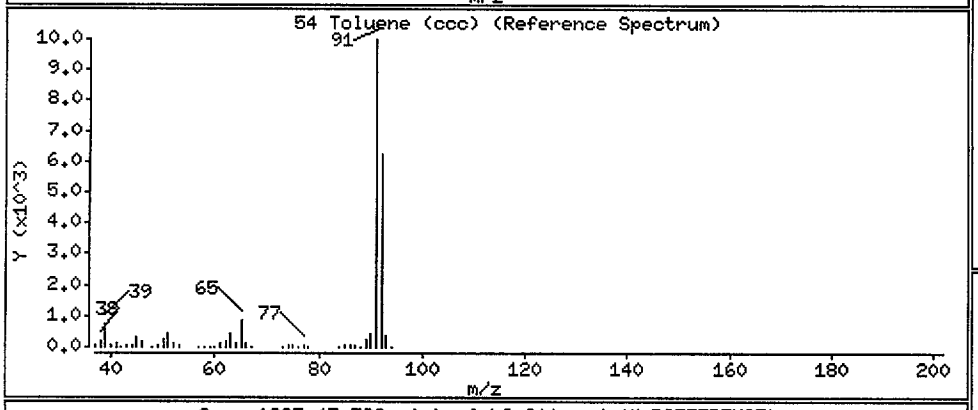
Column diameter: 0.18

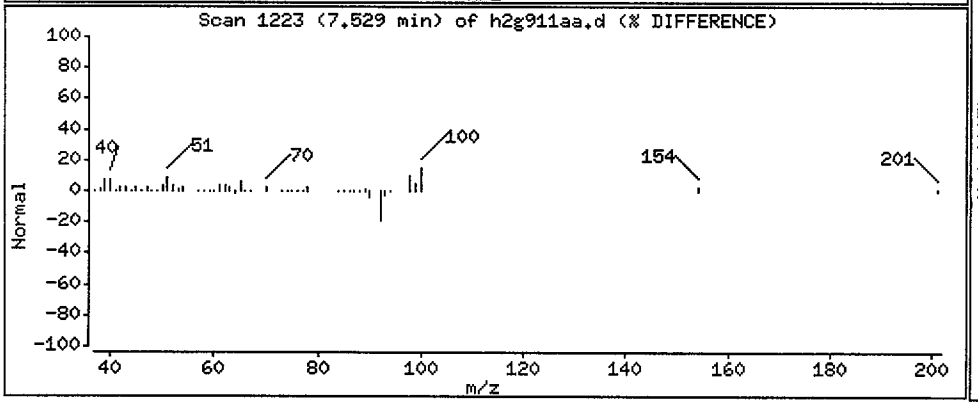
54 Toluene (ccc)

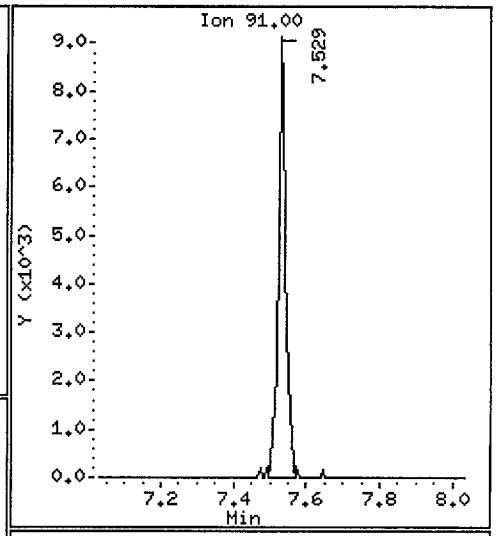
Concentration: 0.0034488 ug

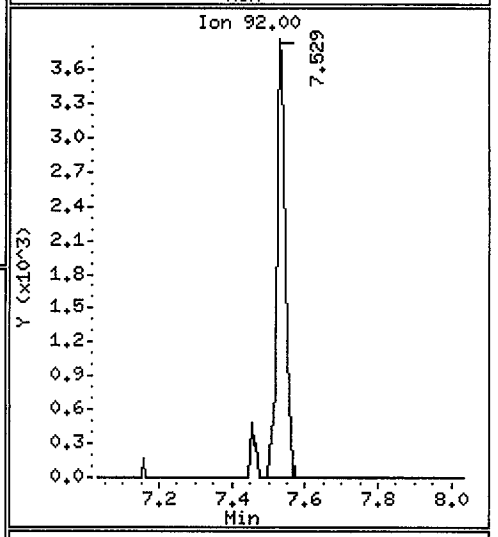


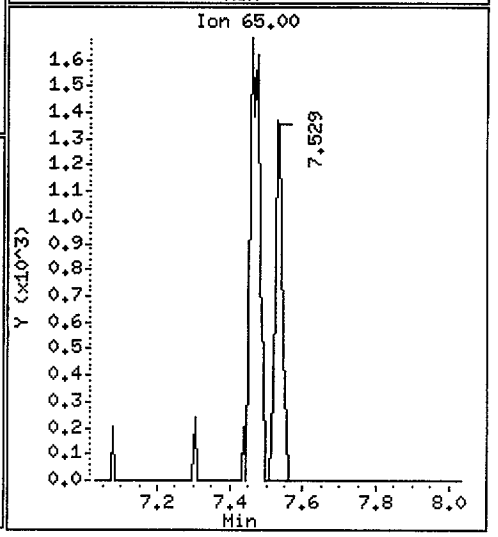












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

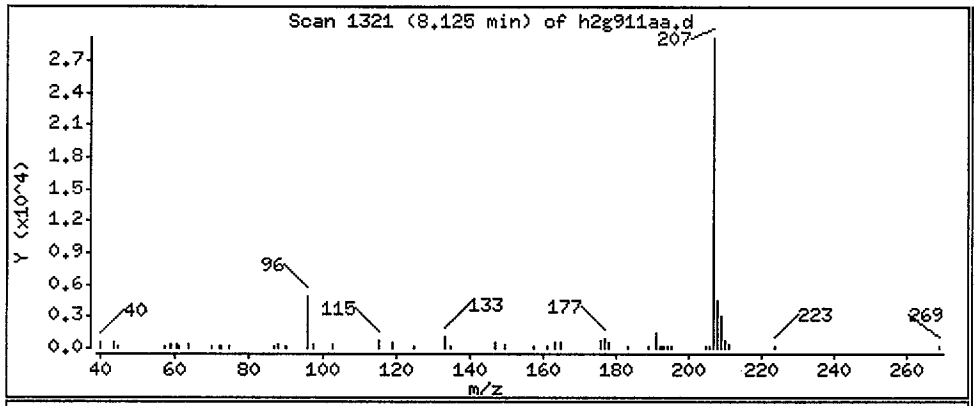
Operator: 22980

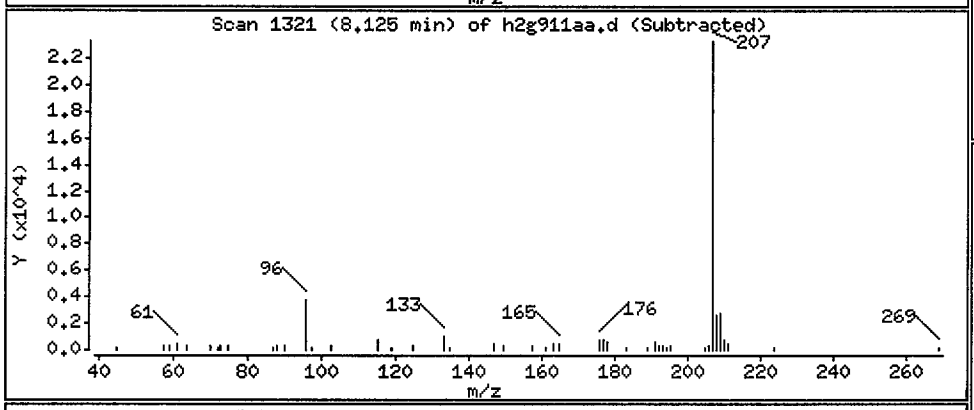
Column phase: J+W 624

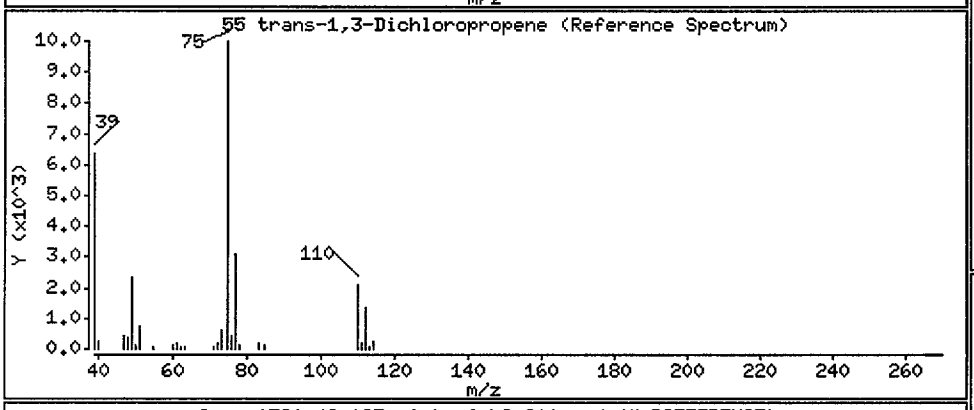
Column diameter: 0.18

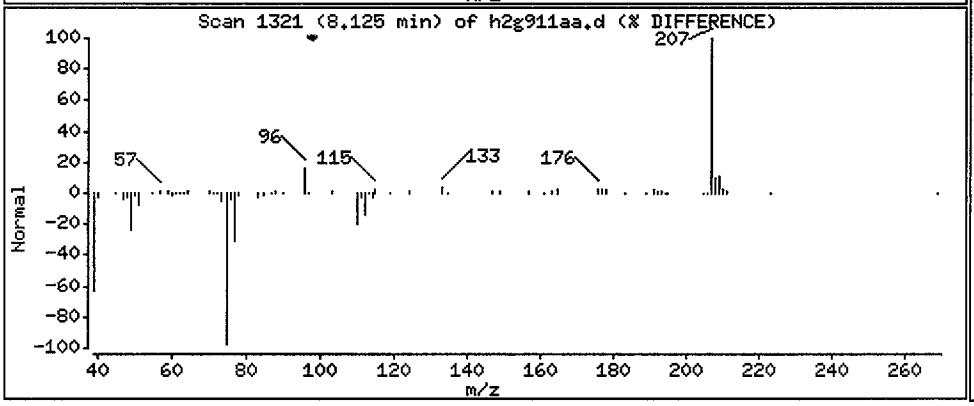
55 trans-1,3-Dichloropropene

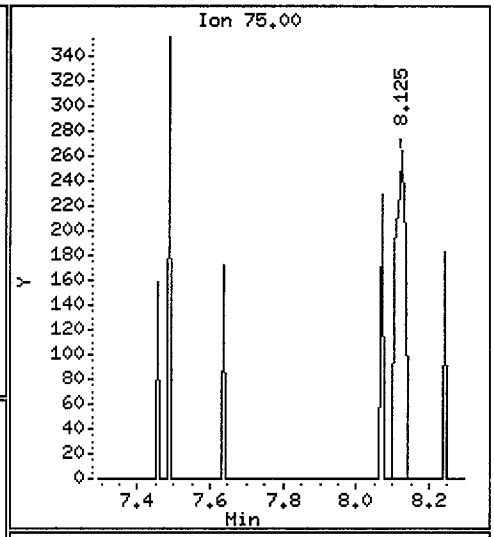
Concentration: 0.016423 ug

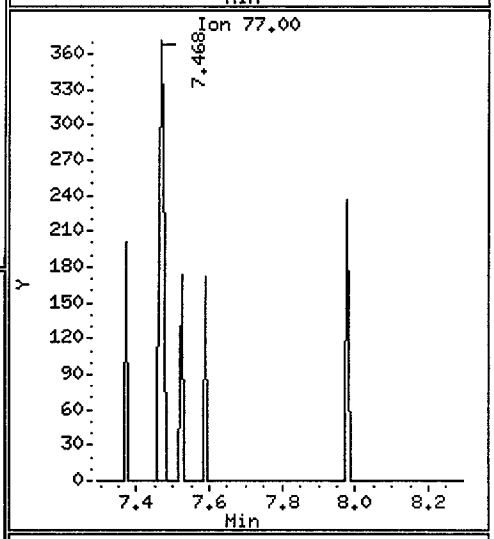


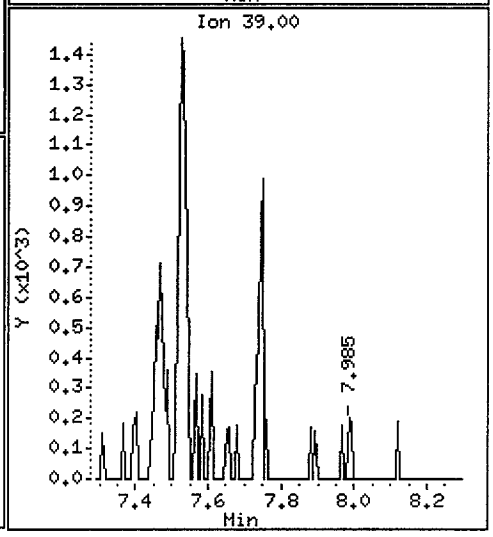












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

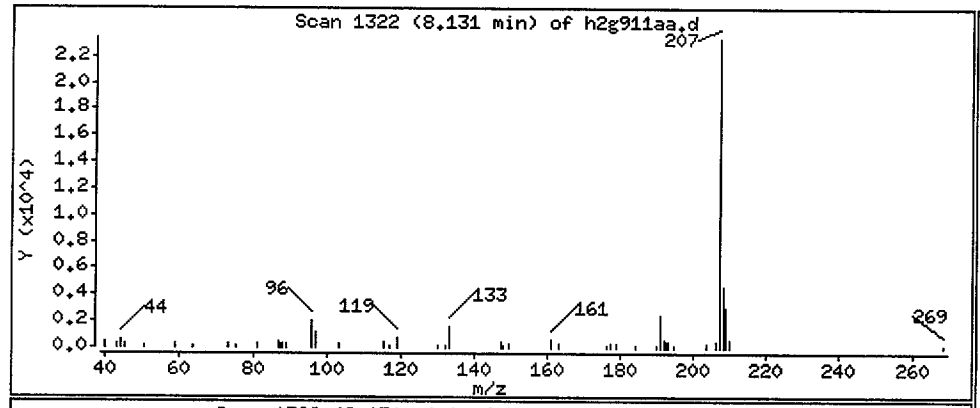
Operator: 22980

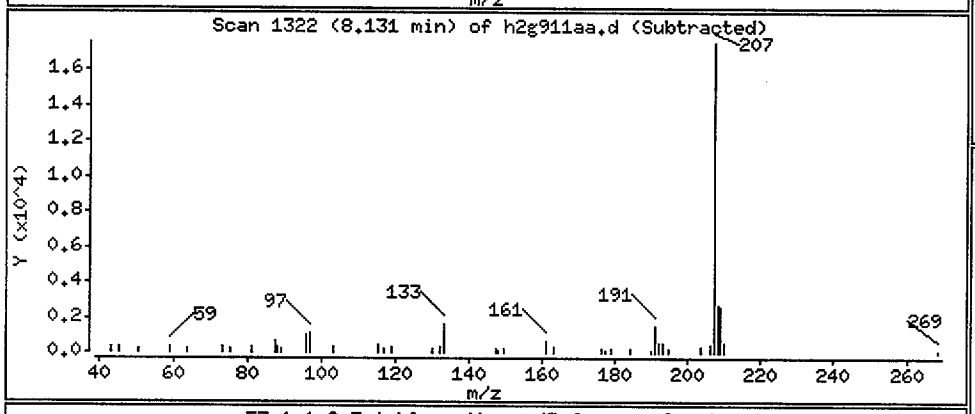
Column phase: J+W 624

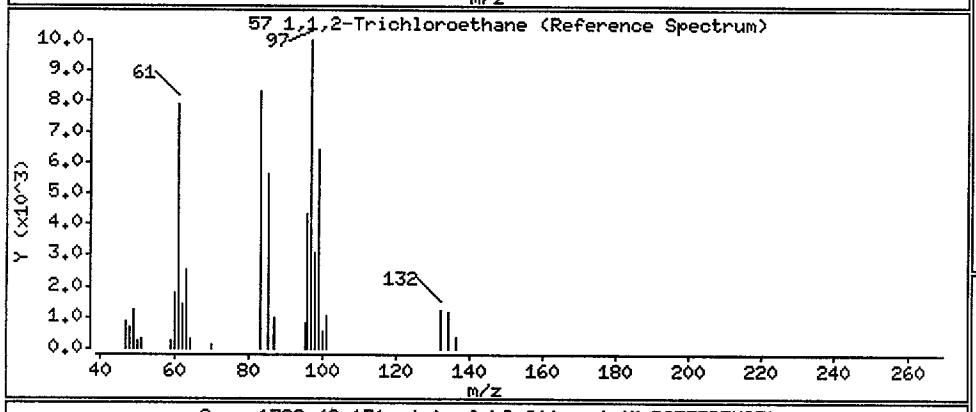
Column diameter: 0.18

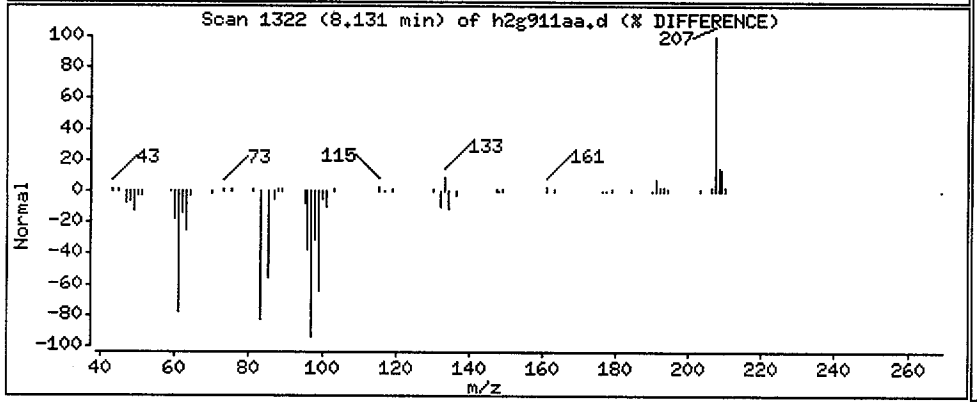
57 1,1,2-Trichloroethane

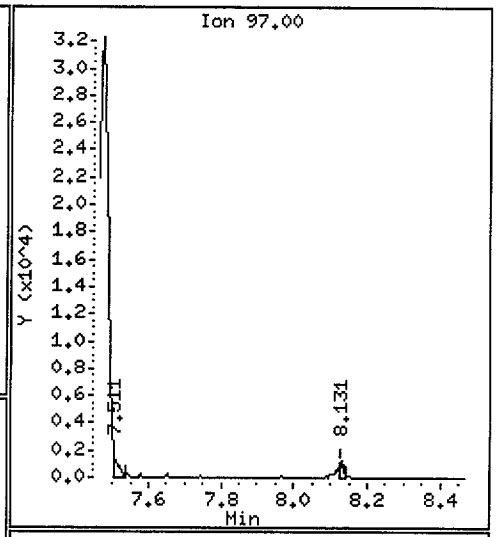
Concentration: 0.0027419 ug

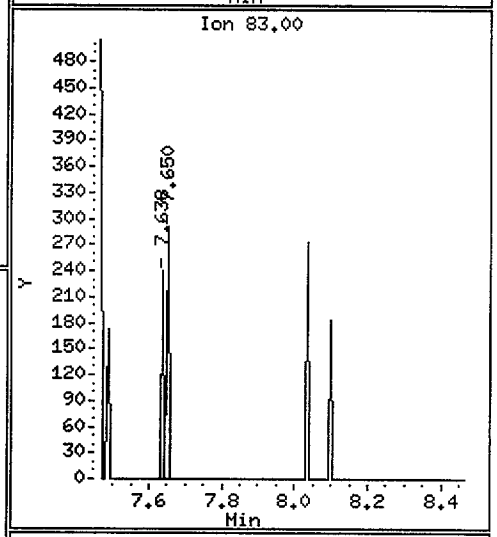


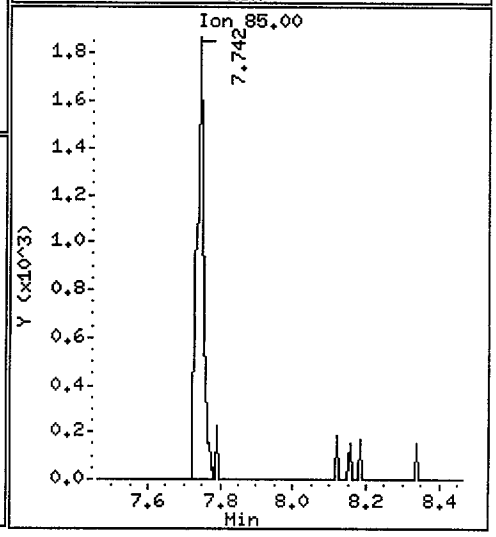












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

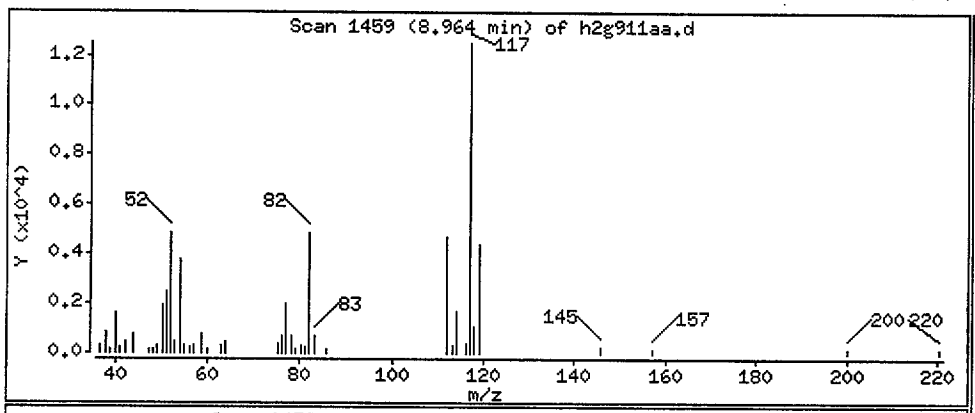
Operator: 22980

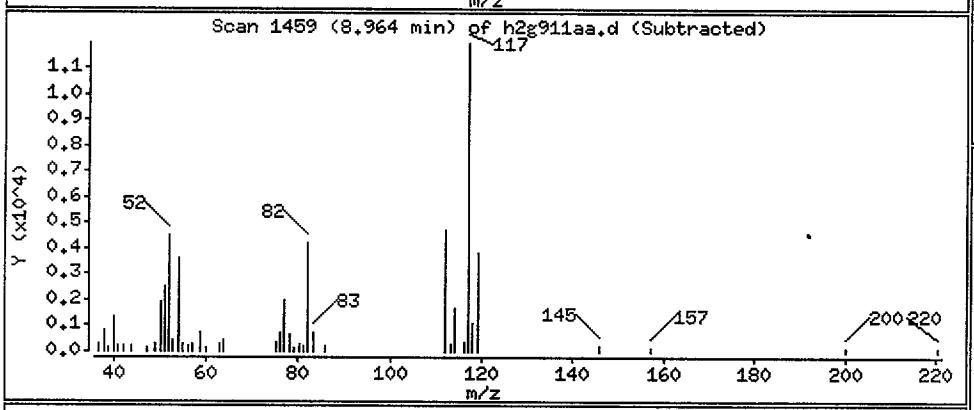
Column phase: J+W 624

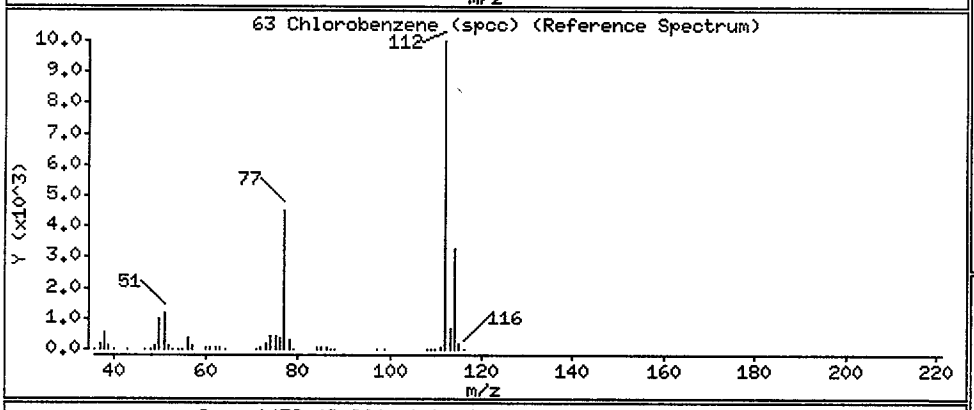
Column diameter: 0.18

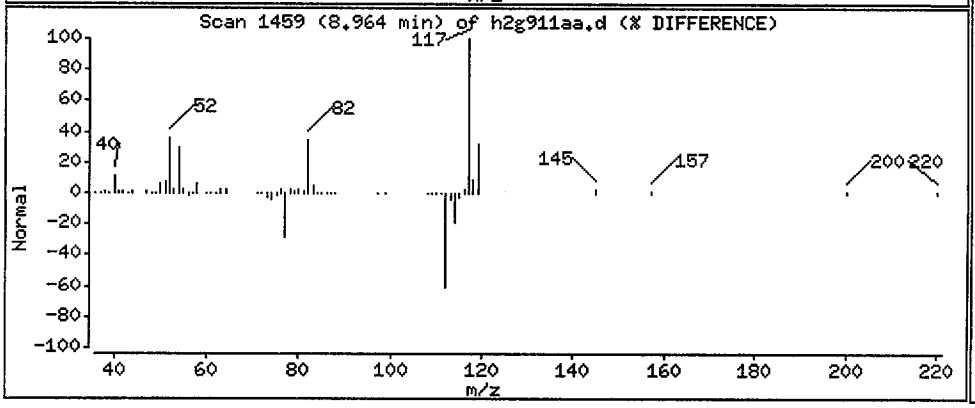
63 Chlorobenzene (spcc)

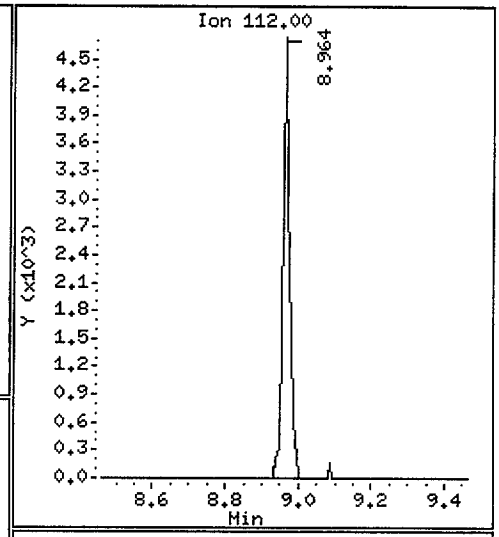
Concentration: 0.0028448 ug

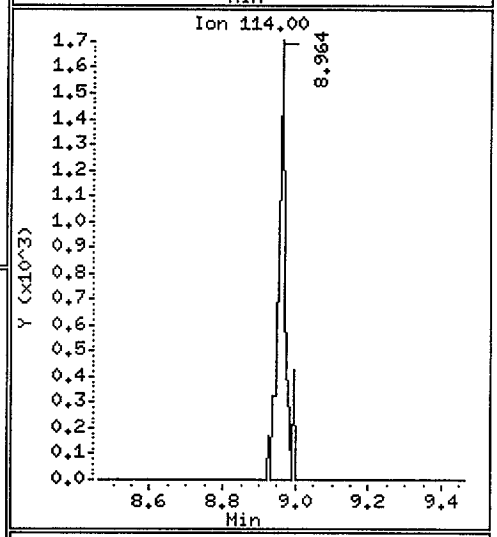


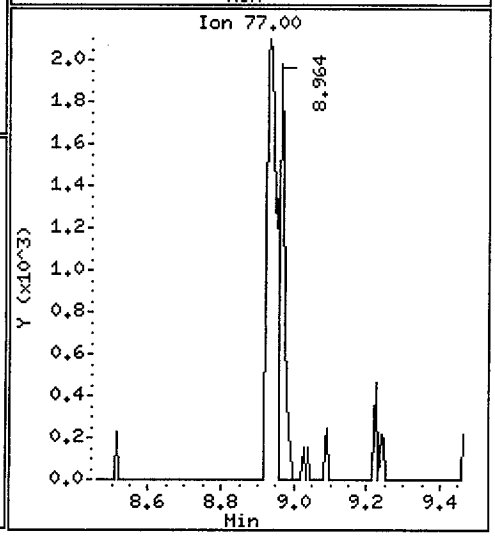












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

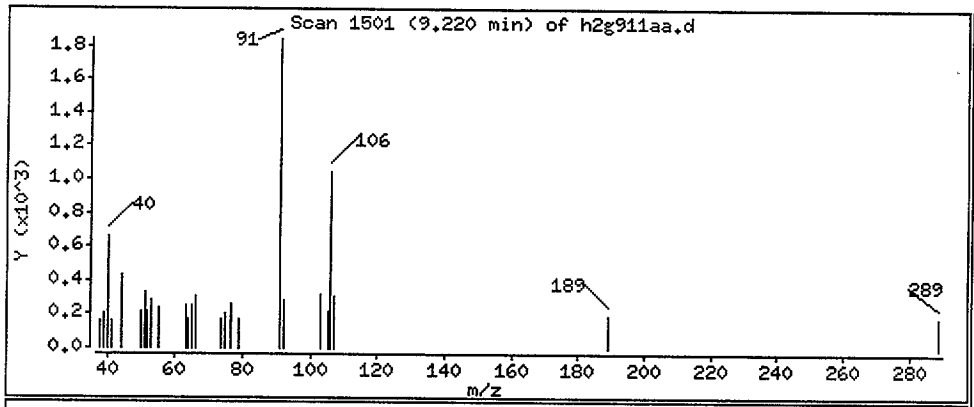
Operator: 22980

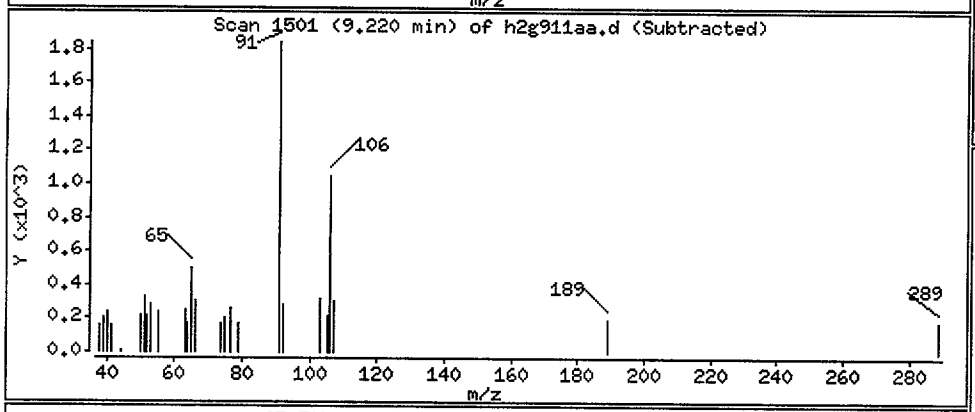
Column phase: J+W 624

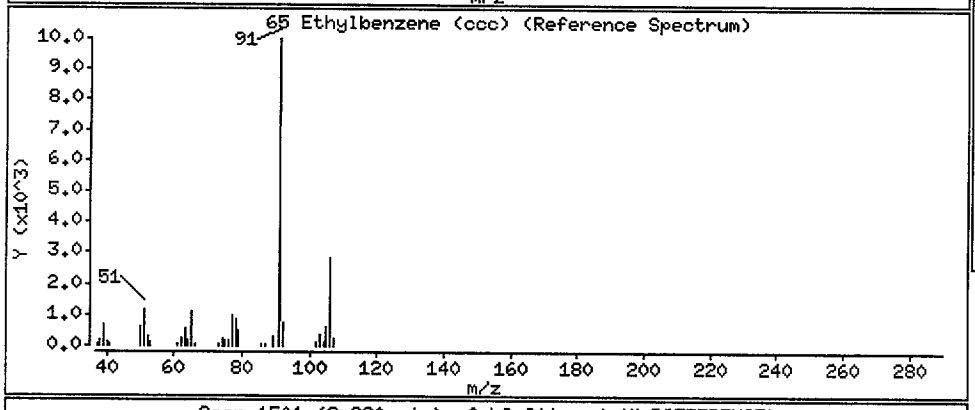
Column diameter: 0.18

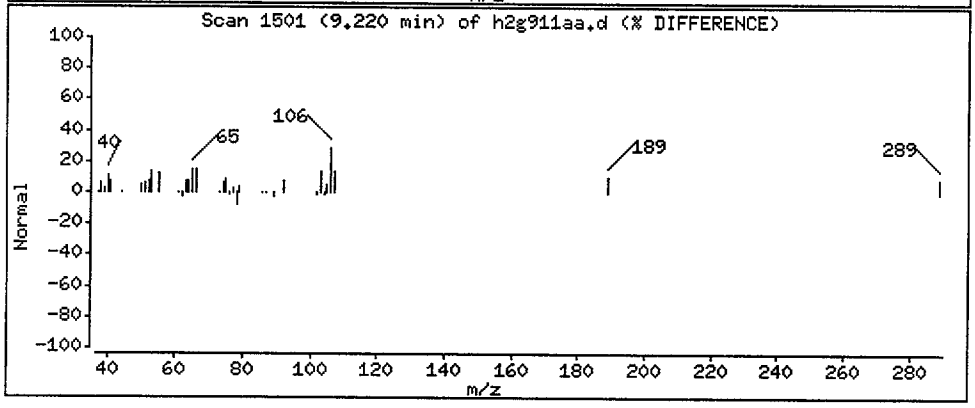
65 Ethylbenzene (ccc)

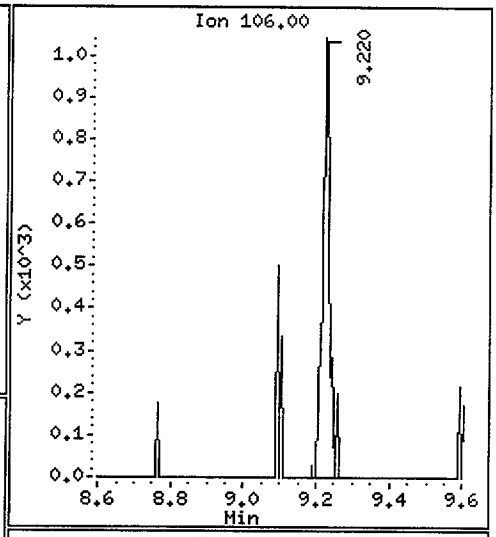
Concentration: 0.0010989 ug

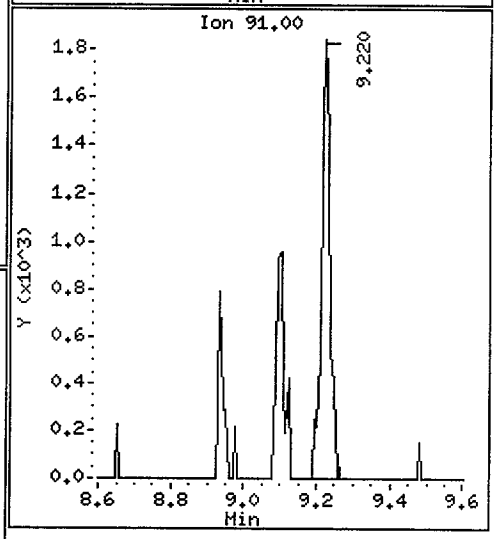












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

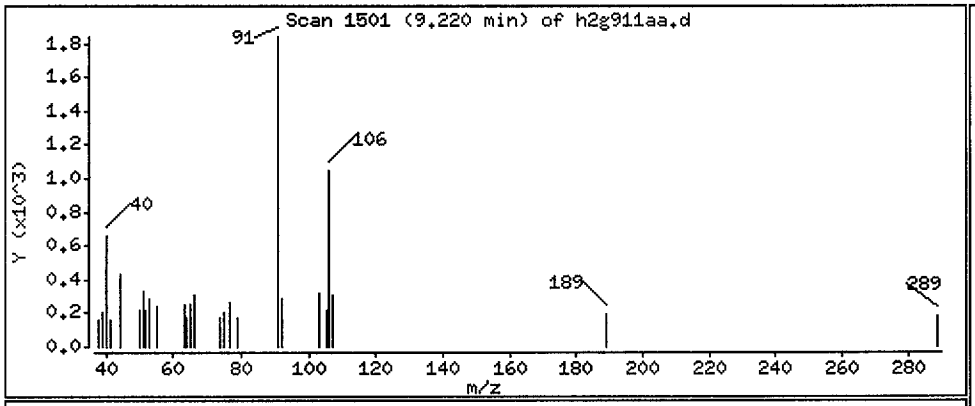
Operator: 22980

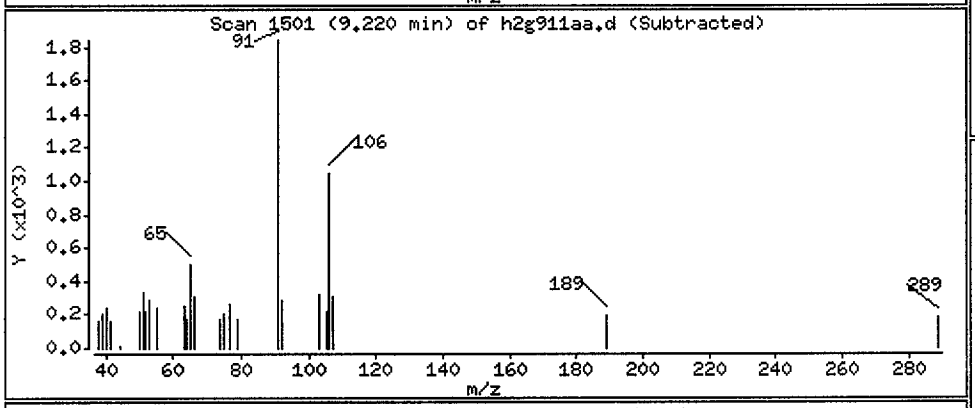
Column phase: J+W 624

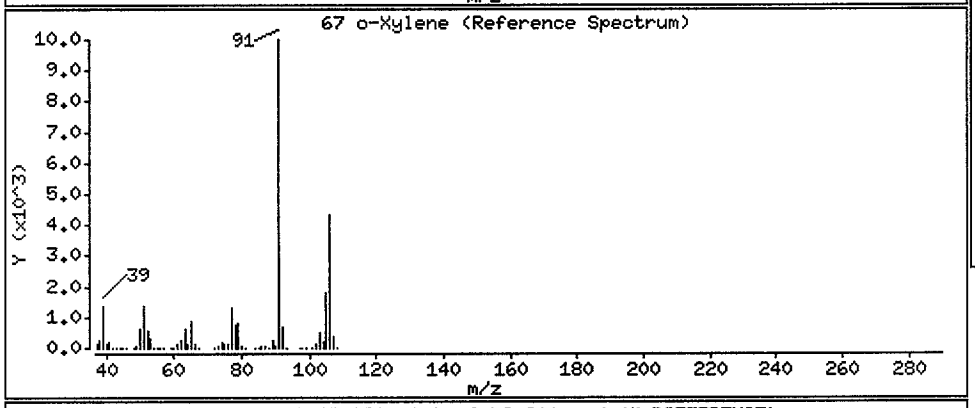
Column diameter: 0.18

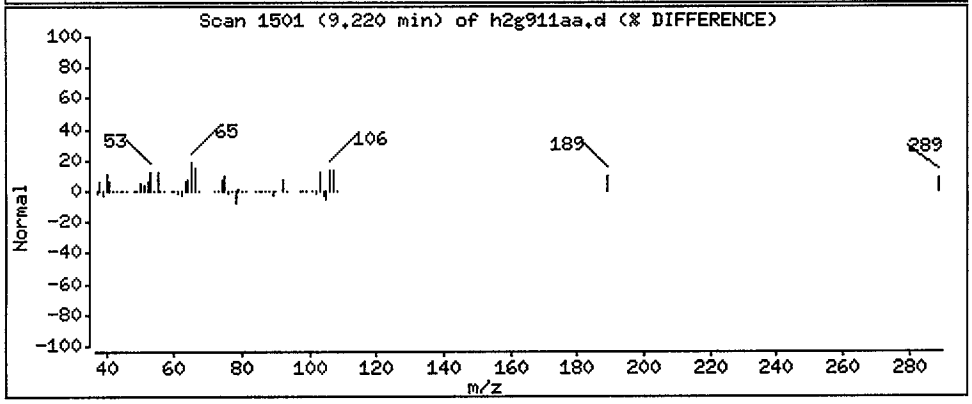
67 o-Xylene

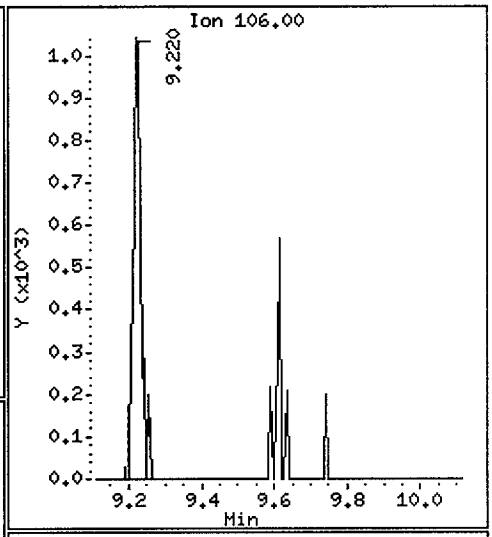
Concentration: 0.0010291 ug

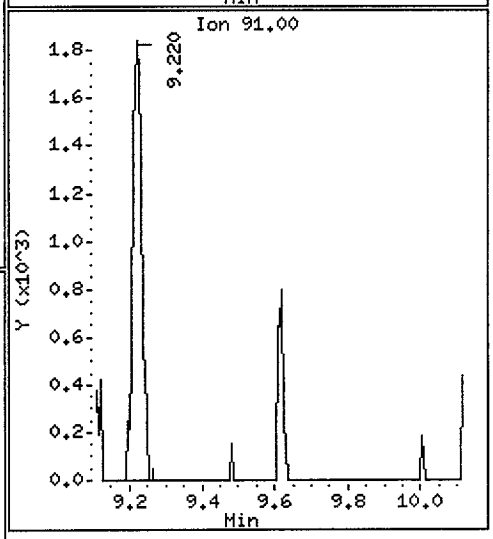












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

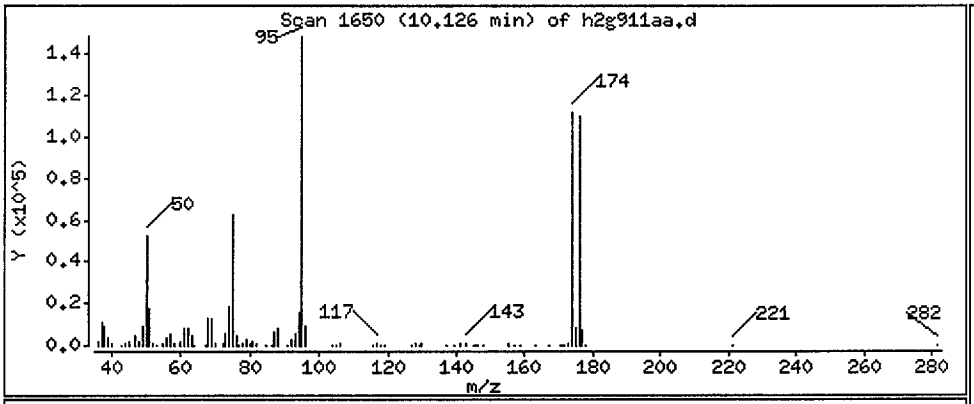
Operator: 22980

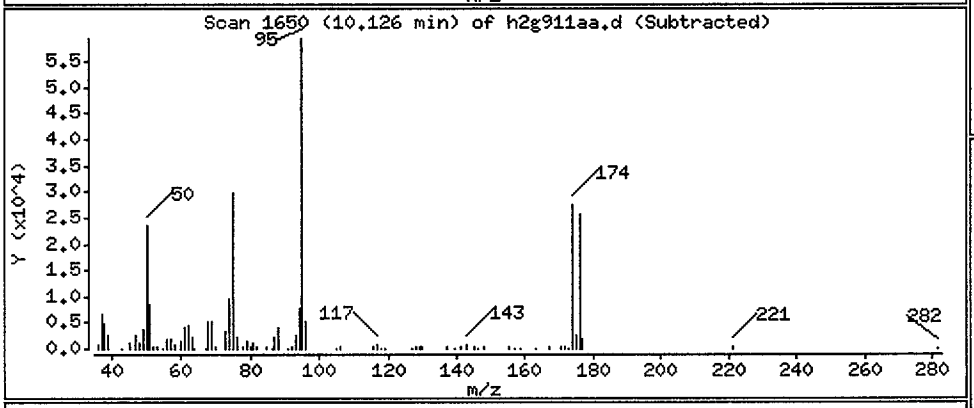
Column phase: J+W 624

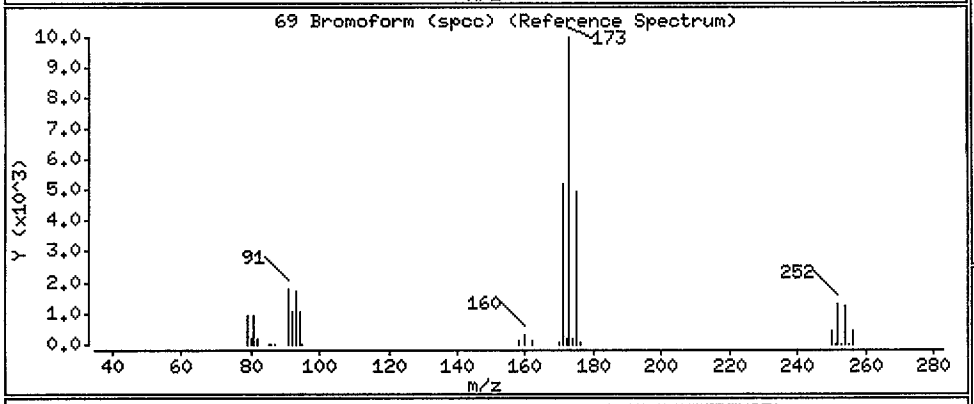
Column diameter: 0.18

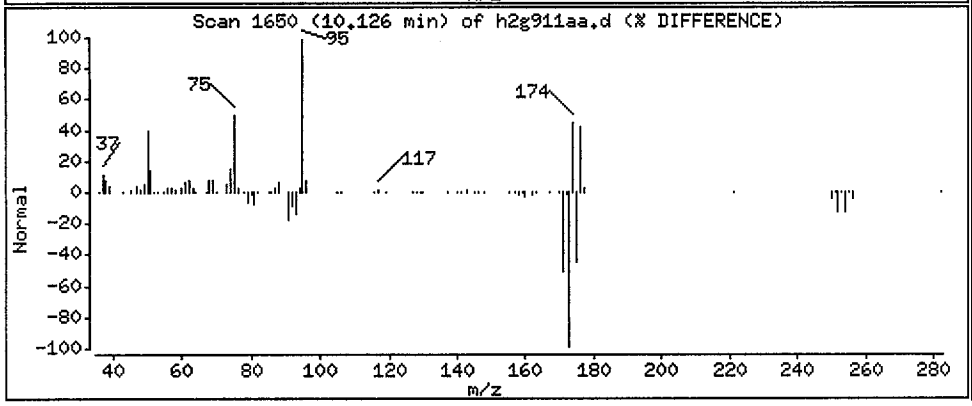
69 Bromoform (spcc)

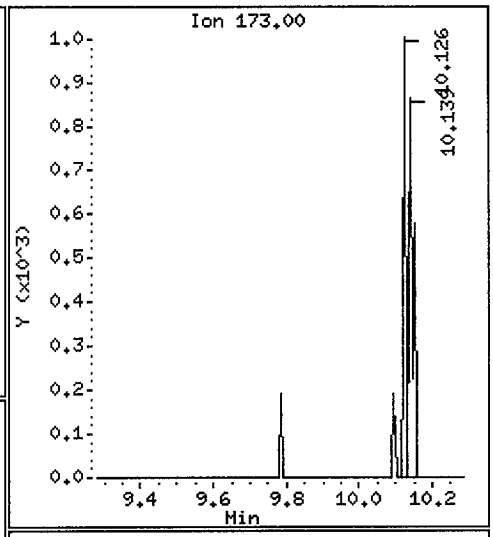
Concentration: 0.024381 ug

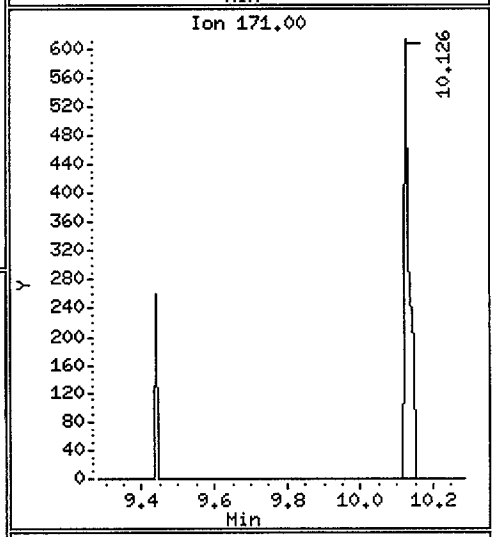


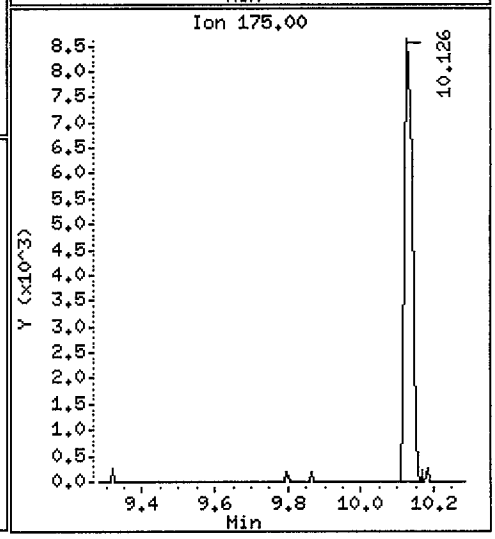












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

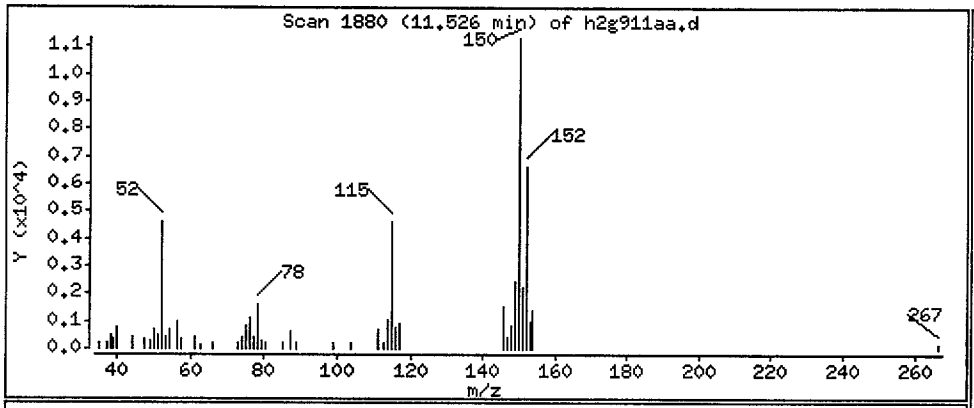
Operator: 22980

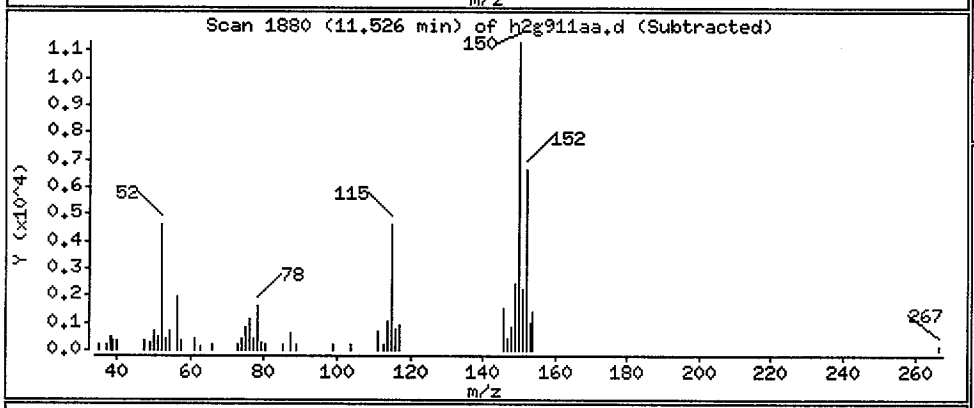
Column phase: J+W 624

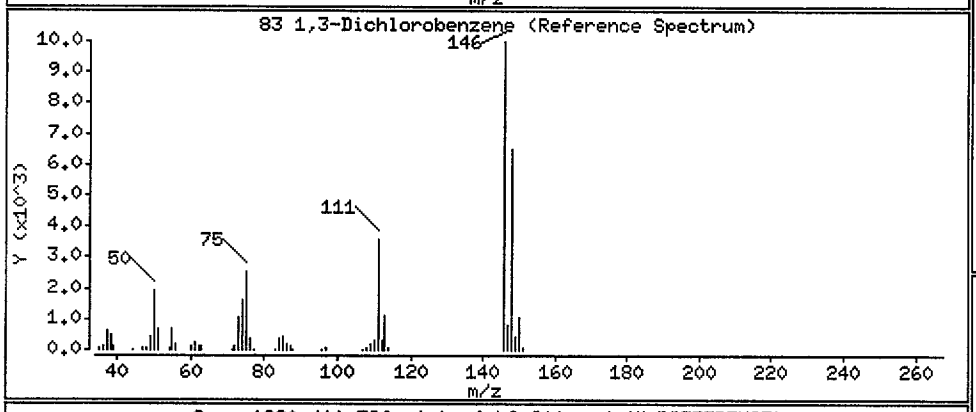
Column diameter: 0.18

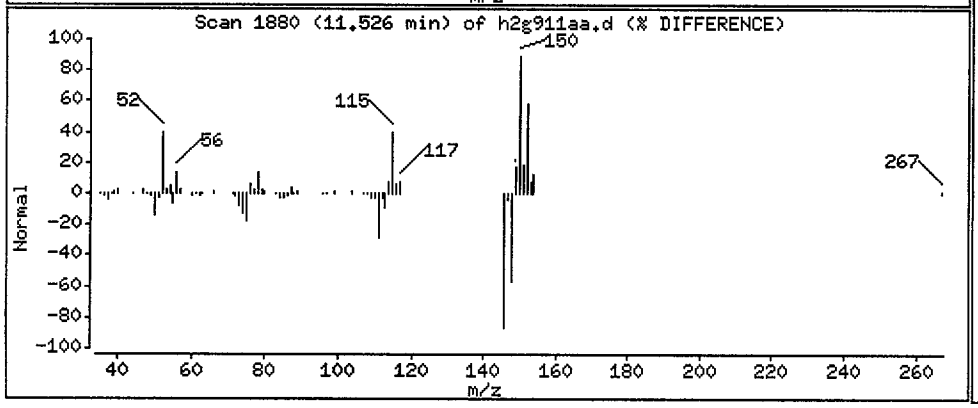
83 1,3-Dichlorobenzene

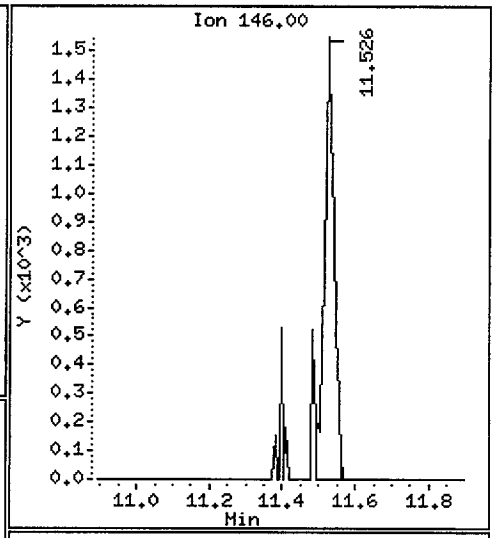
Concentration: 0.0017747 ug

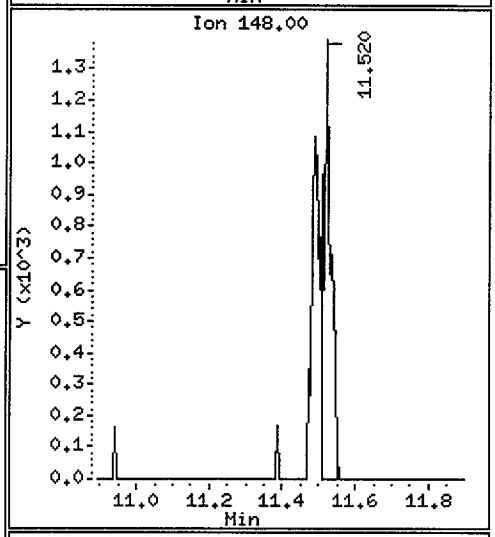


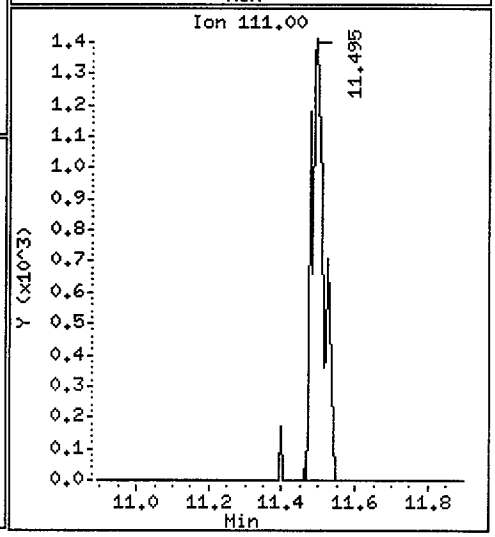












Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

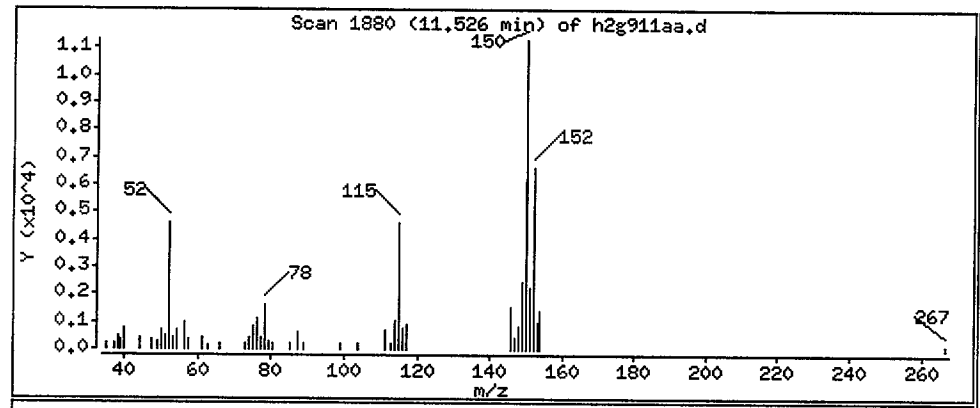
Operator: 22980

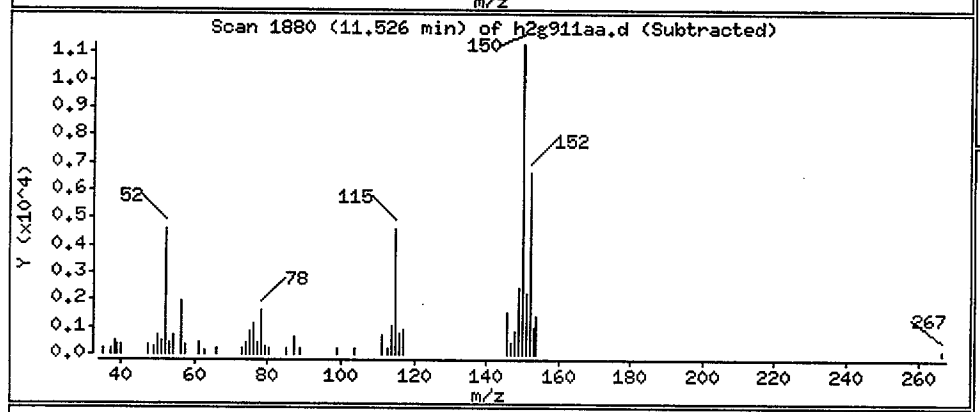
Column phase: J+W 624

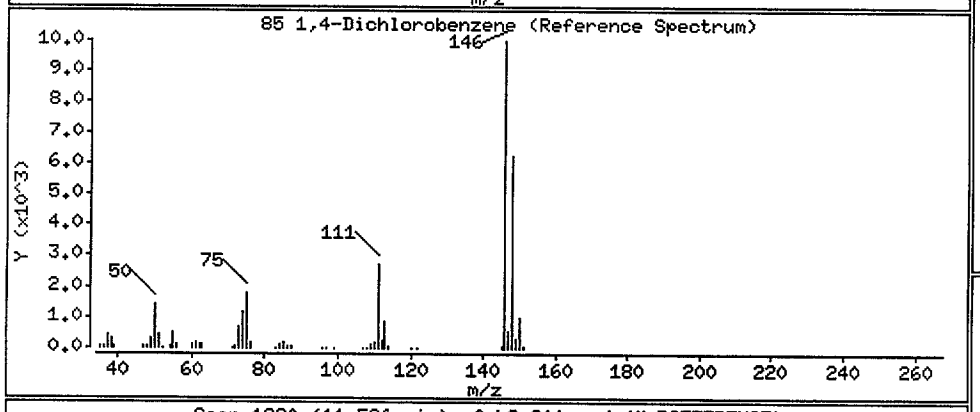
Column diameter: 0.18

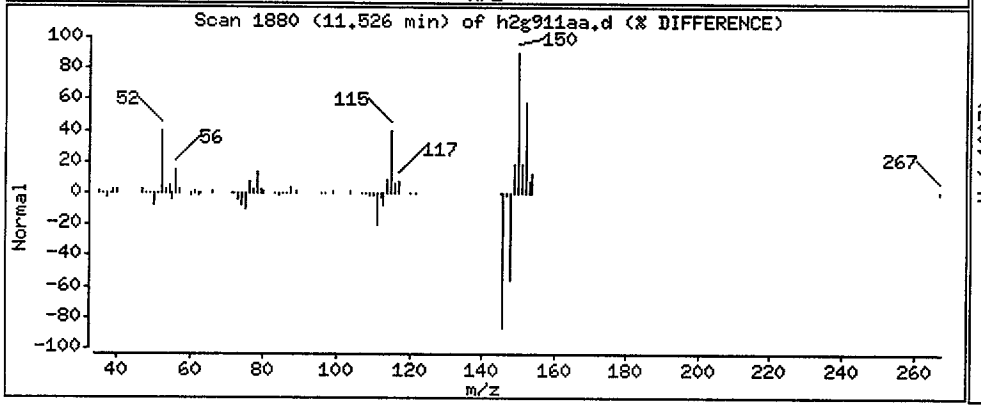
85 1,4-Dichlorobenzene

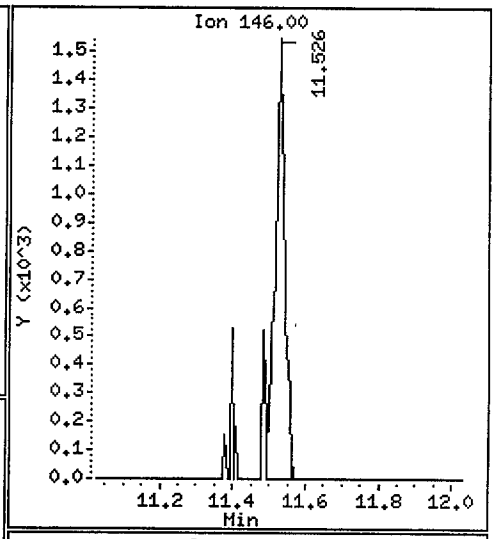
Concentration: 0.0019079 ug

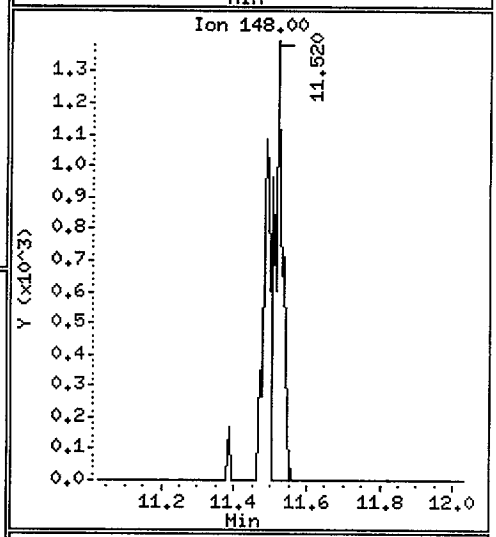


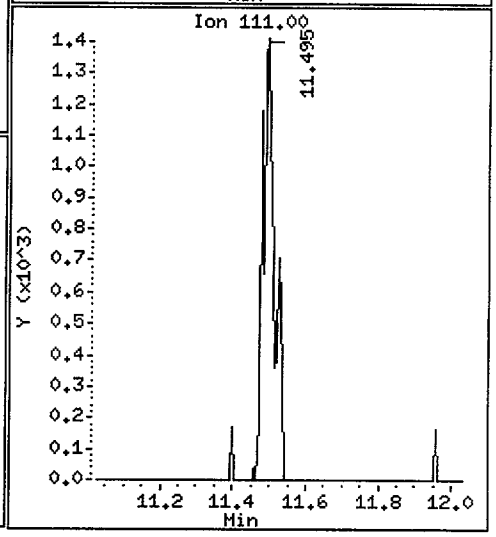












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d
Report Date: 14-Apr-2006 16:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g911aa.d
Lab Smp Id: H2G911AA Client Smp ID: G-3009-R2-VOST PAIR
Inj Date : 07-APR-2006 16:44
Operator : 22980 Inst ID: mz.i
Smp Info : H2G911AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-016 **Work Order #...:** H2G971AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0094 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.033**	**0.010**	**ug**	**0.0016**
Bromoform	**0.14**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0079 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0045 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.65**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.096**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.022**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-016 **Work Order #...:** H2G971AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.018 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.087**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.013**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0054 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0054 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(50 - 134)
1,2-Dichloroethane-d4	75	(50 - 134)
Toluene-d8	79	(57 - 127)
Bromofluorobenzene	67	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-016 **Work Order #:** H2G971AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.040 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d
Report Date: 07-Apr-2006 14:07

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2g971aa.d
Lab Smp Id: H2G971AA
Client Smp ID: G-3010-R2-VOST PAIR
Inj Date : 07-APR-2006 13:51
Operator : 22980
Inst ID: mx.i
Smp Info : H2G971AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	1171447	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	226521	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	237537	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	151413	7.60221	0.19006
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	117211	7.54982	0.18874
$ 6 Toluene-d8	98	6.251	6.250	(0.824)	878791	7.92380	0.19809
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	188299	6.68582	0.16714
M 9 Xylene (total)	106				23736	0.46835	0.011709
17 Trichlorofluoromethane	101	1.877	1.888	(0.387)	4733	0.10160	0.0025399
21 Acetone	43	2.375	2.381	(0.490)	30510	18.3892	0.45973
23 Carbon Disulfide	76	2.497	2.497	(0.515)	28338	0.31742	0.0079356
26 Methylene Chloride	84	2.740	2.746	(0.565)	4822	0.26628	0.0066570
33 *Vinyl Acetate	86	3.251	3.421	(0.670)	904	0.67902	~~0.016976~~
36 2-Butanone	43	3.866	3.871	(0.797)	9888	3.82093	~~0.095523~~
38 *THF	42	4.103	4.109	(0.846)	1557	0.98182	0.024545
39 Chloroform (ccc)	83	4.140	4.139	(0.853)	39792	0.89374	0.022344
41 Carbon Tetrachloride	117	4.438	4.437	(0.915)	7593	0.18056	0.0045141
42 1,1-Dichloropropene	75	4.851	4.437	(1.000)	89938	1.93914	~~0.048478~~
43 Benzene	78	4.608	4.607	(0.950)	44816	0.37776	0.0094439
44 1,2-Dichloroethane	62	4.851	4.620	(1.000)	20561	1.02989	~~0.025747~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d
Report Date: 07-Apr-2006 14:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
45 Trichloroethene	130	5.180	5.173	(1.068)	5902	0.18540	0.0046350
49 Bromodichloromethane	83	5.606	5.605	(1.155)	32571	1.31041	0.032760
52 4-Methyl-2-pentanone	43	6.251	6.147	(1.288)	6946	1.12073	~~0.028018~~
53 Toluene (ccc)	91	6.311	6.311	(0.832)	69874	0.52661	0.013165
54 trans-1,3-Dichloropropene	75	6.719	6.506	(0.886)	6056	0.26045	~~0.0065111~~
56 1,1,2-Trichloroethane	97	6.257	6.670	(0.825)	79589	7.59345	~~0.18984~~
57 Tetrachloroethene	164	6.816	6.816	(0.899)	98709	3.46231	0.086558
59 2-Hexanone	43	6.719	6.907	(0.886)	2136	0.48190	~~0.012047~~
60 Chlorodibromomethane	129	7.035	7.035	(0.928)	49971	3.84806	0.096201
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	1765350	25.9178	0.64795
64 Ethylbenzene (ccc)	106	7.838	7.716	(1.034)	11869	0.25338	~~0.0063345~~
65 m&p-Xylene	106	7.838	7.838	(1.034)	11866	0.21615	0.0054038
66 o-Xylene	106	7.838	8.251	(1.034)	11869	0.25219	~~0.0063048~~
68 Bromoform (spcc)	173	8.459	8.464	(1.116)	35259	5.61785	0.14045
69 Isopropylbenzene	105	8.684	8.689	(1.145)	10087	0.06683	0.0016707
73 1,2,3-Trichloropropane	110	9.238	9.115	(0.860)	1301	0.58691	~~0.014673~~
80 1,2,4-Trimethylbenzene	105	10.089	10.125	(0.939)	47443	0.61906	~~0.015476~~
81 sec-Butylbenzene	105	10.089	10.435	(0.939)	47443	0.35042	0.0087605
90 Napthalene	128	13.946	13.946	(1.298)	7596	0.73701	0.018425

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d
Report Date: 07-Apr-2006 14:07

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g971aa.d
Lab Smp Id: H2G971AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3010-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1171447	1.94
2 Chlorobenzene-d5	214194	107097	428388	226521	5.76
3 1,4 Dichlorobenze	242601	121300	485202	237537	-2.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.01
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

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.

Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d
Report Date: 07-Apr-2006 14:07

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G971AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3010-R2-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

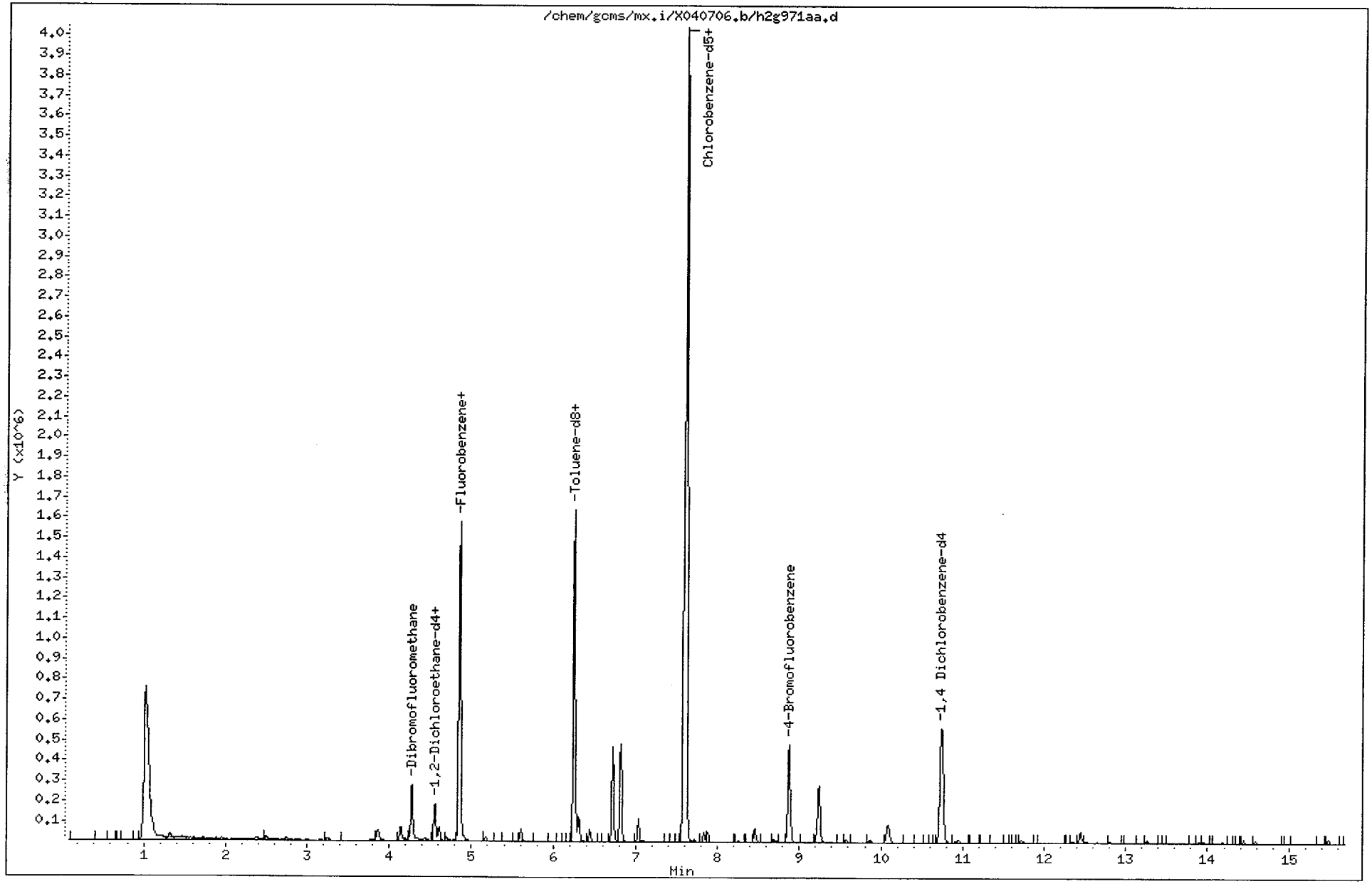
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.19006	76.02	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18874	75.50	50-150
$ 6 Toluene-d8	0.25000	0.19809	79.24	50-150
$ 7 4-Bromofluorobenze	0.25000	0.16714	66.86	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d
Date : 07-APR-2006 13:51
Client ID: G-3010-R2-VOST PAIR
Sample Info: H2G971AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



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Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

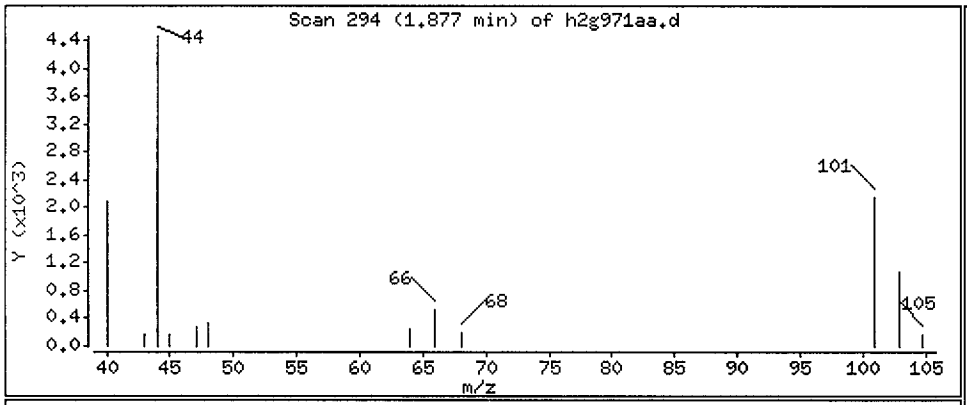
Operator: 22980

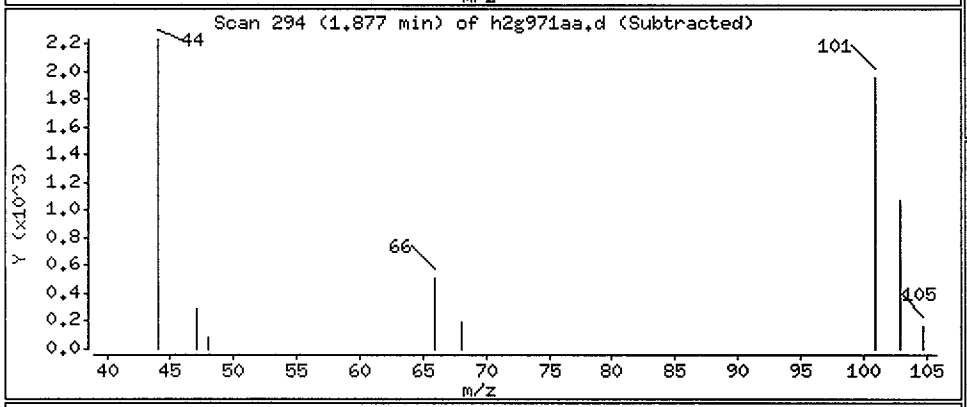
Column phase: J+W 624

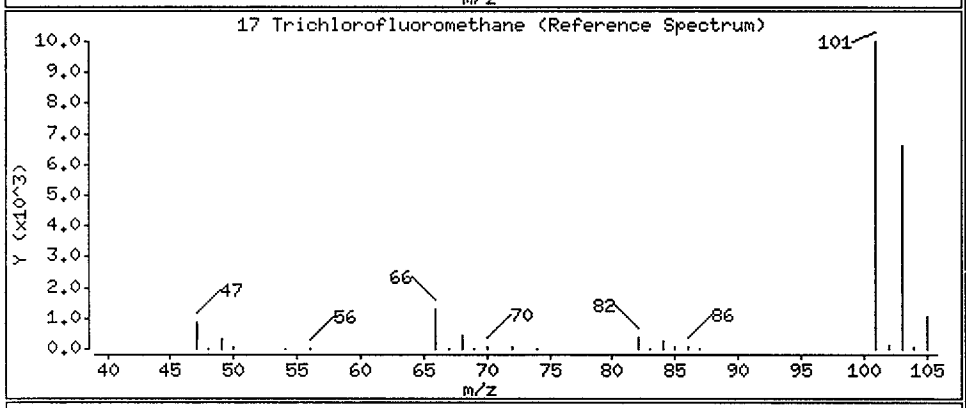
Column diameter: 0.18

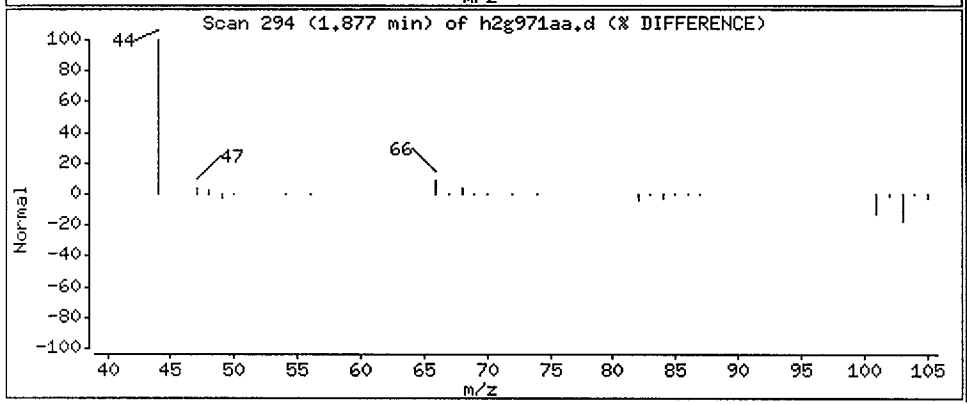
17 Trichlorofluoromethane

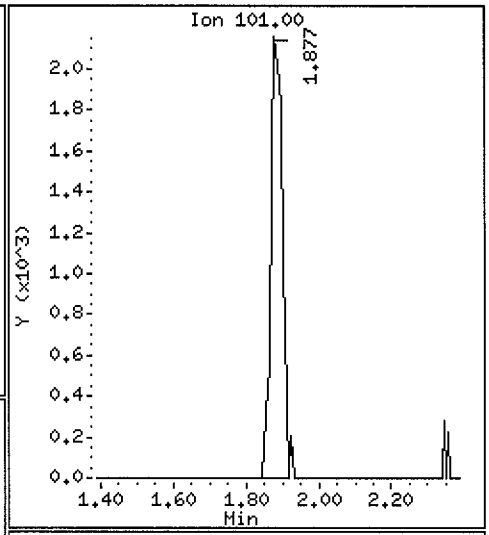
Concentration: 0.0025399 ug

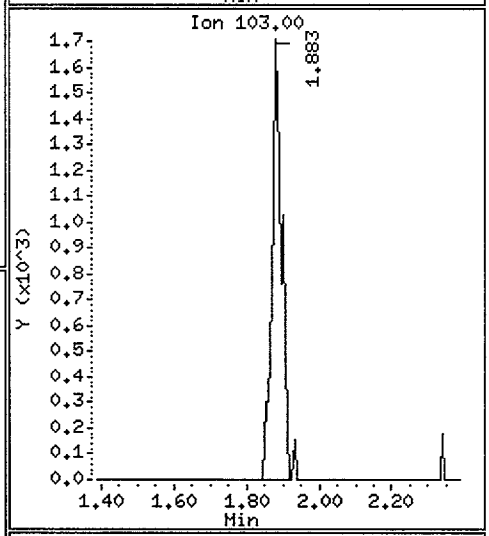


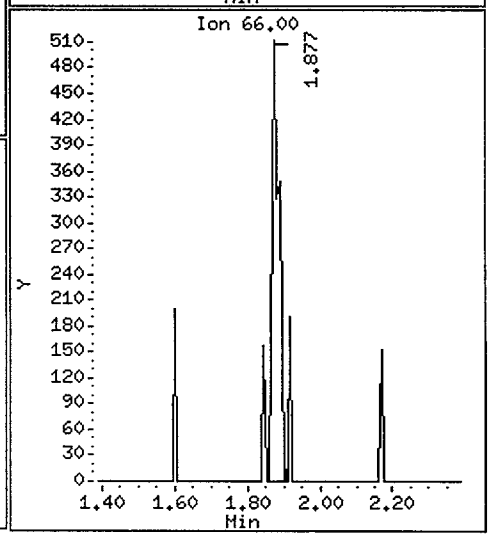












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

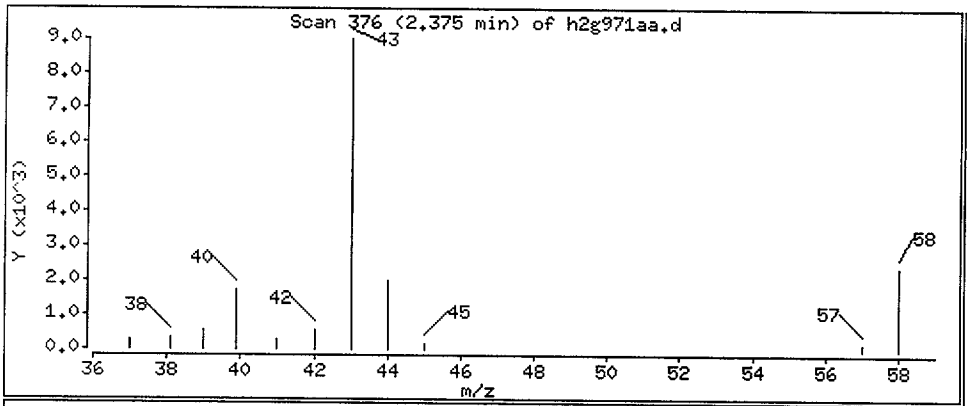
Operator: 22980

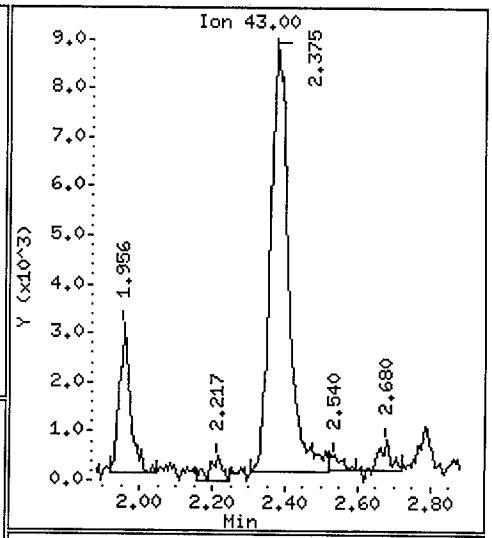
Column phase: J+W 624

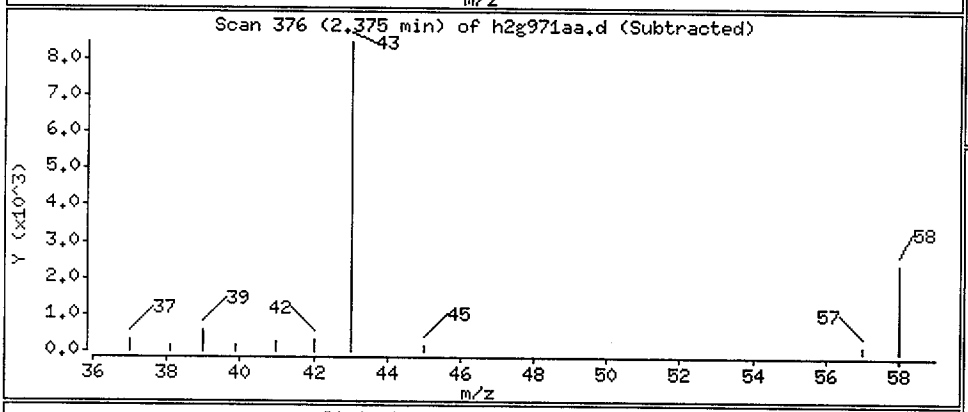
Column diameter: 0.18

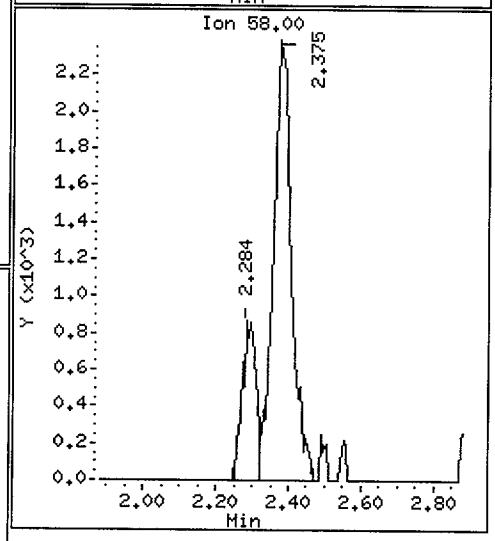
21 Acetone

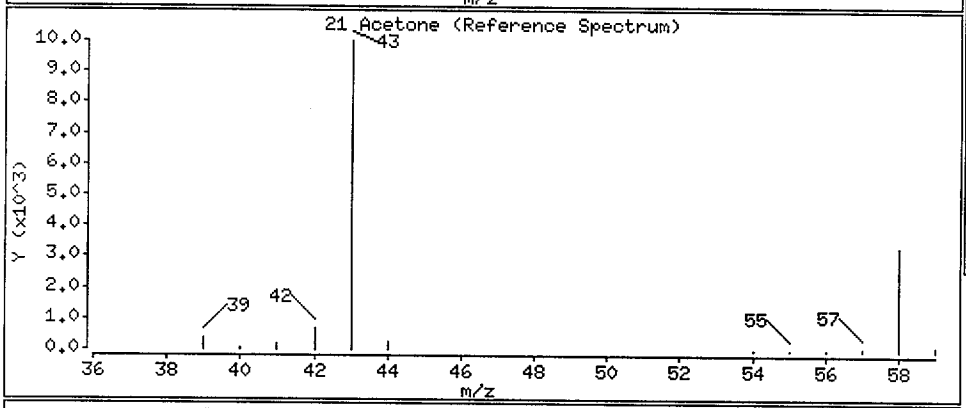
Concentration: 0.45973 ug

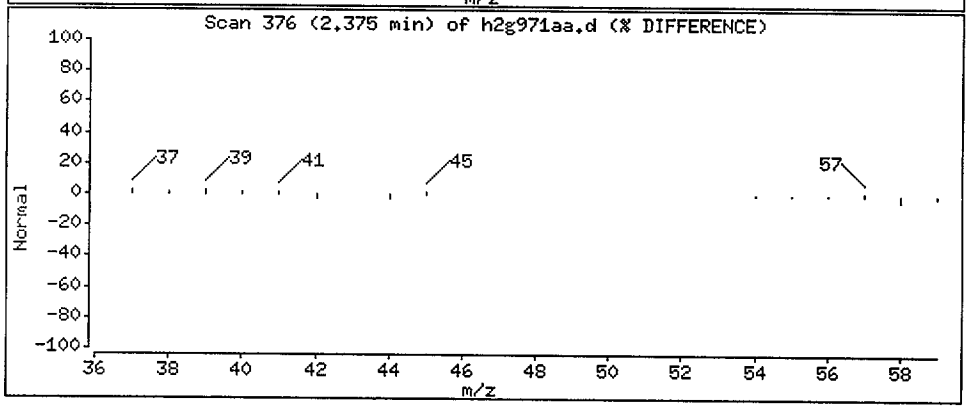












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

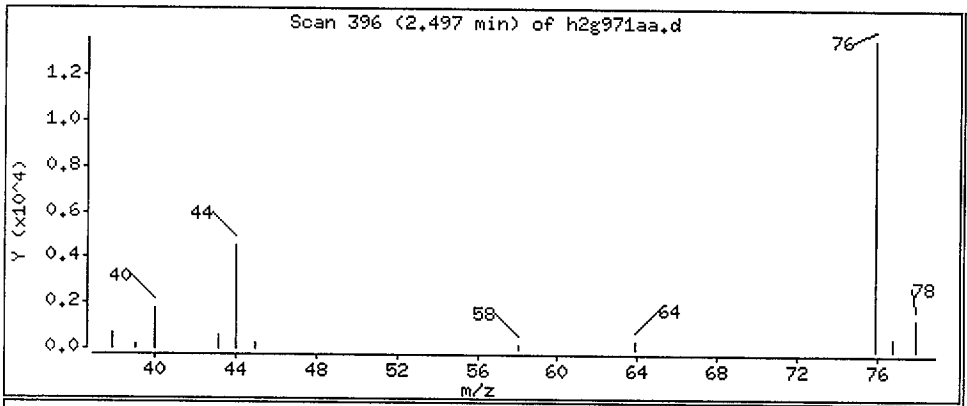
Operator: 22980

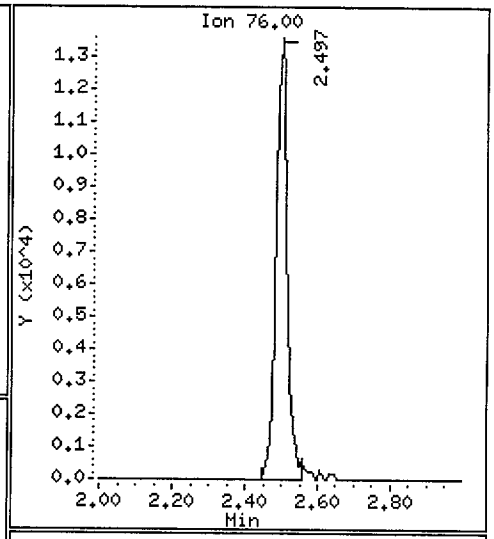
Column phase: J+W 624

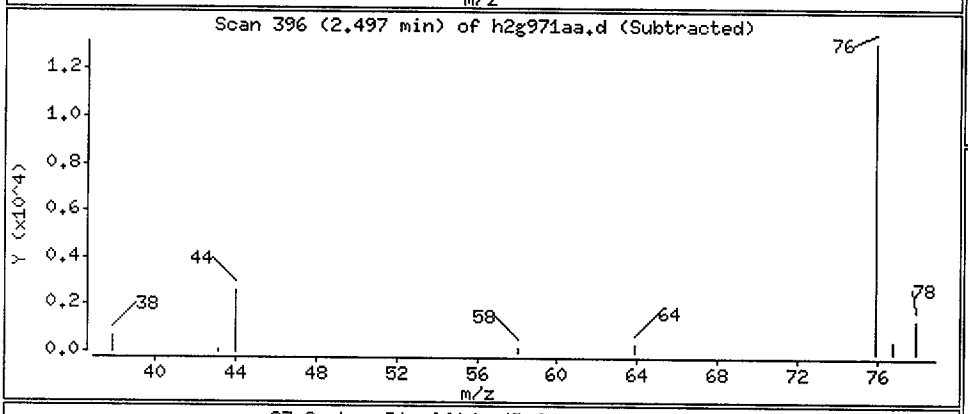
Column diameter: 0.18

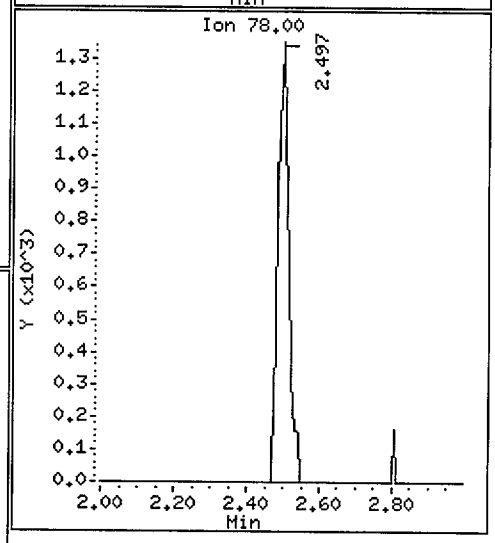
23 Carbon Disulfide

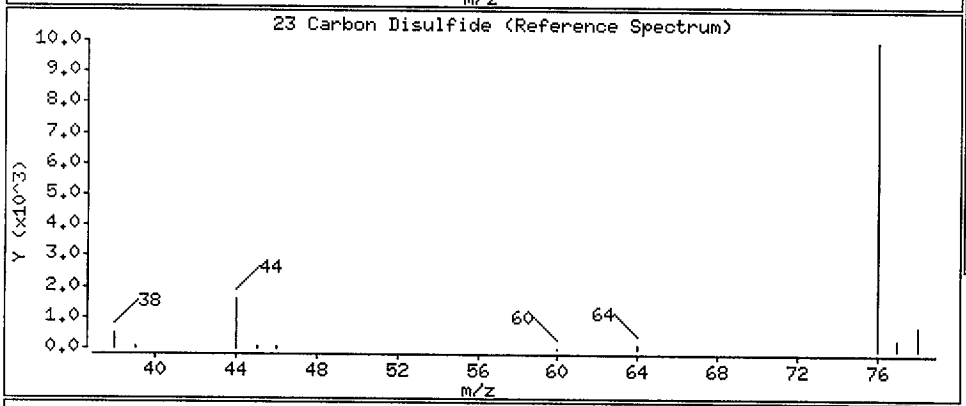
Concentration: 0.0079356 ug

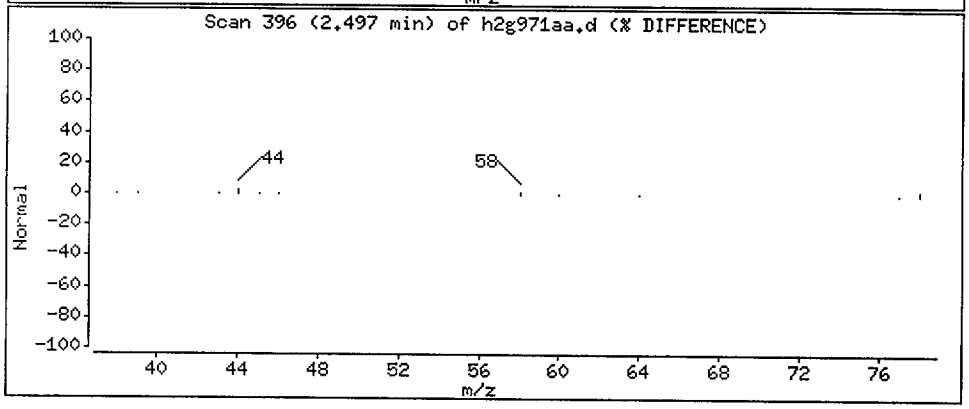












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

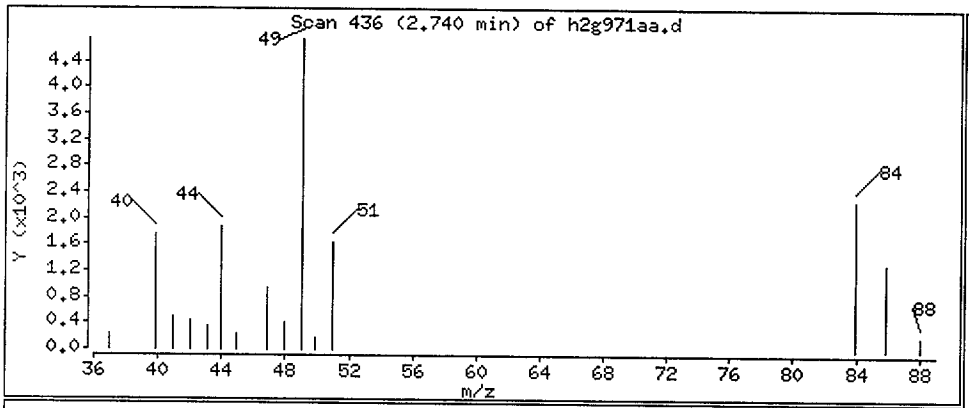
Operator: 22980

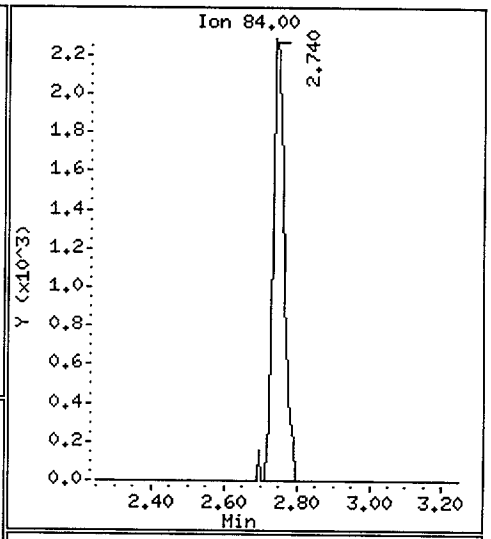
Column phase: J+W 624

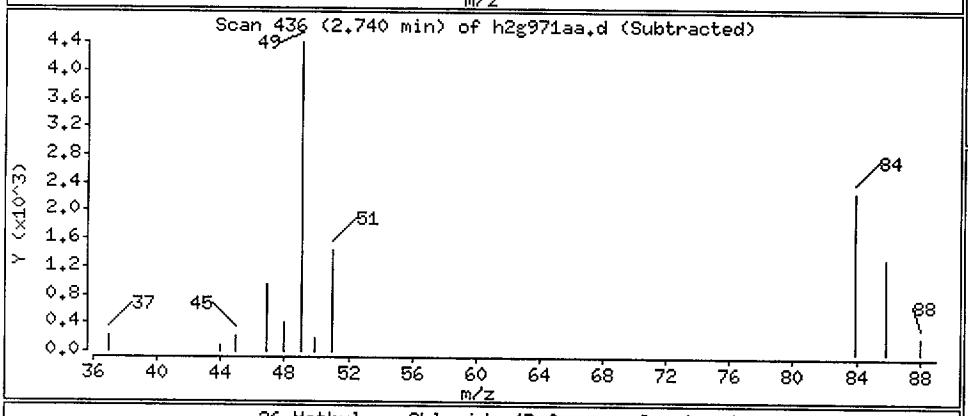
Column diameter: 0.18

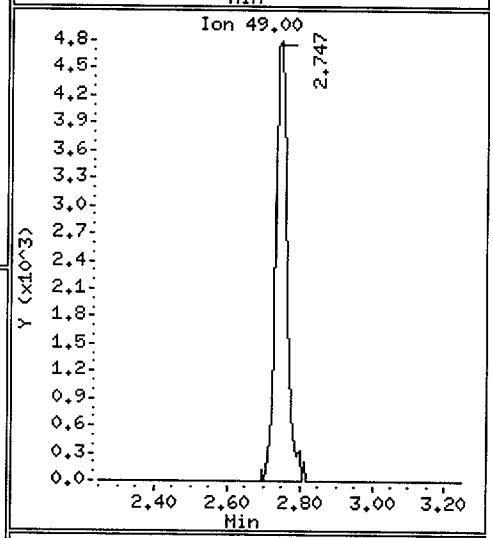
26 Methylene Chloride

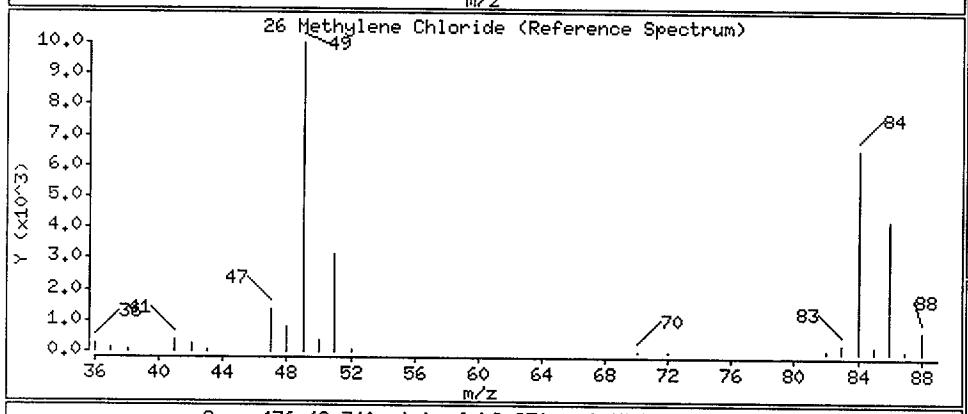
Concentration: 0.0066570 ug

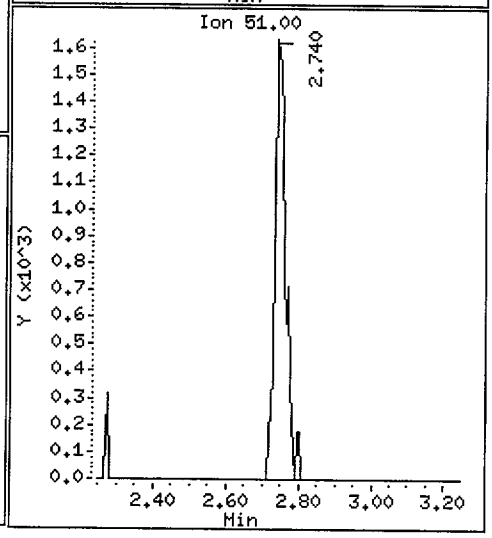


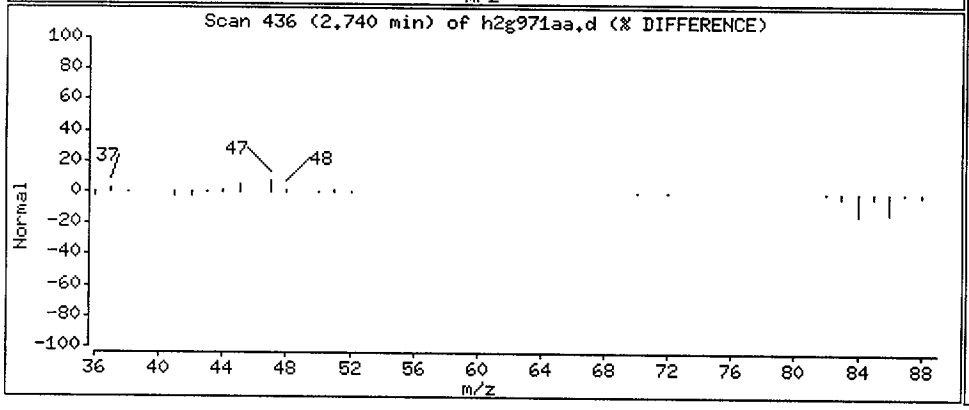












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

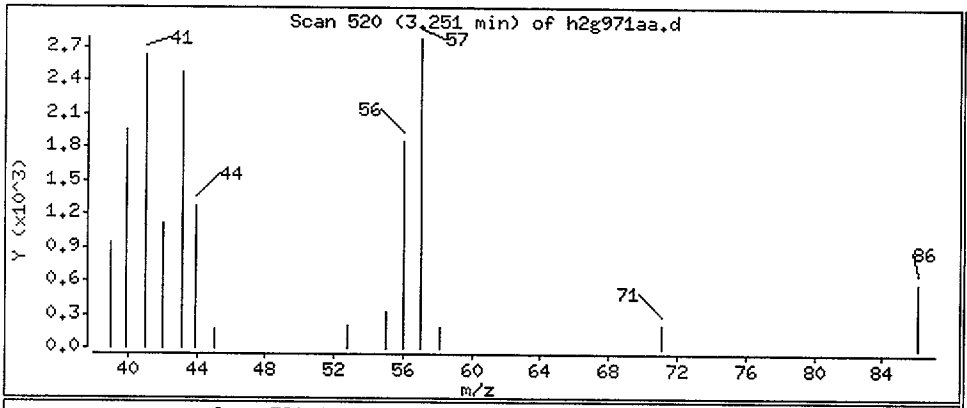
Operator: 22980

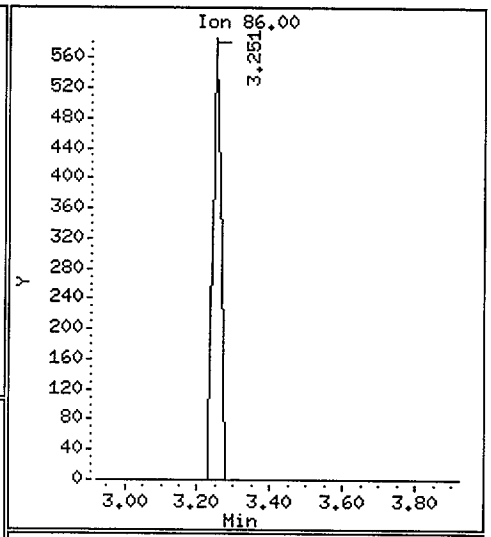
Column phase: J+W 624

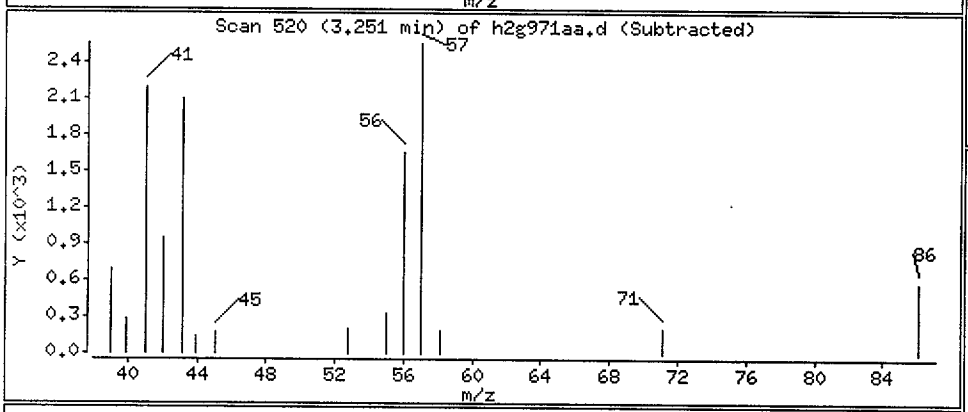
Column diameter: 0.18

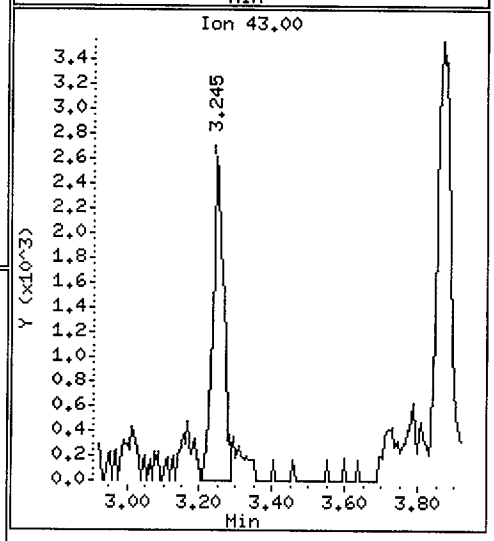
33 *Vinyl Acetate

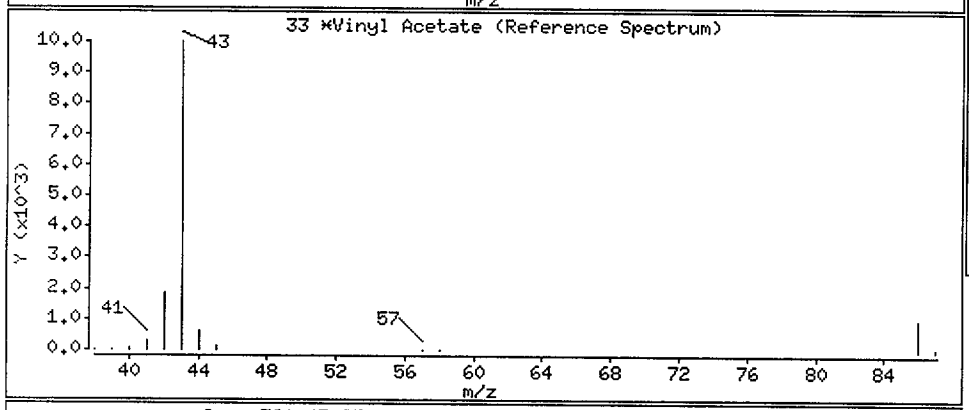
Concentration: 0.016976 ug

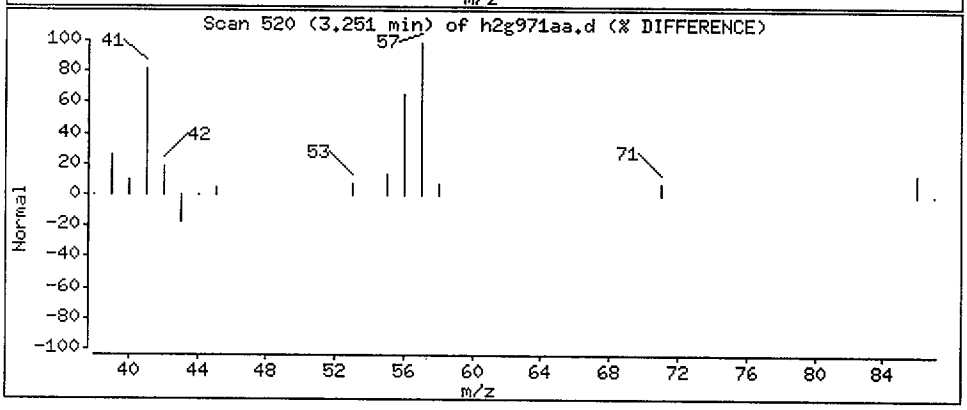












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

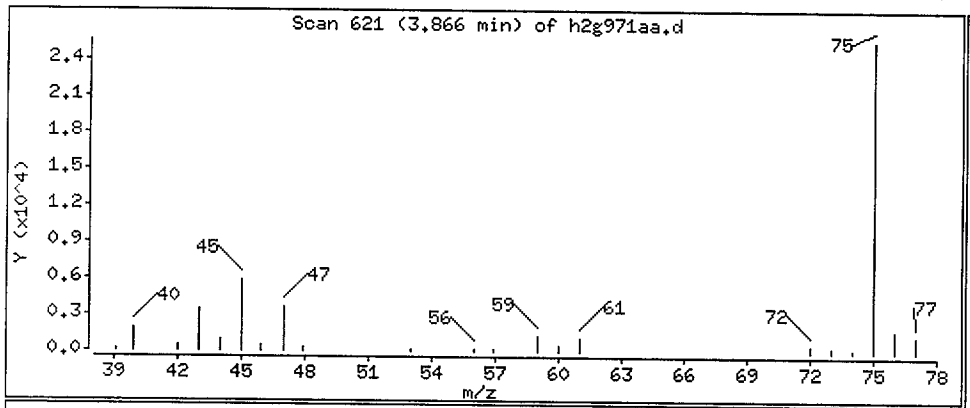
Operator: 22980

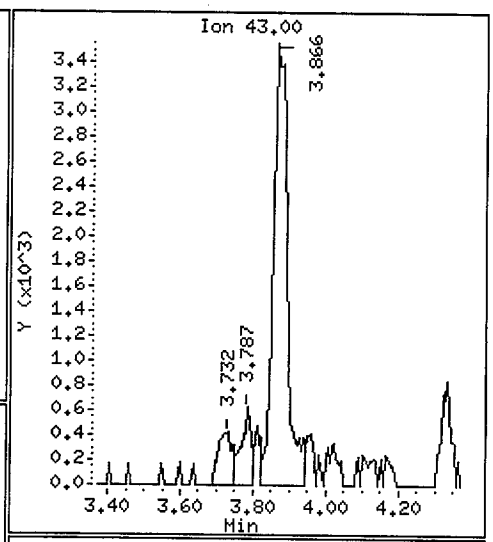
Column phase: J+W 624

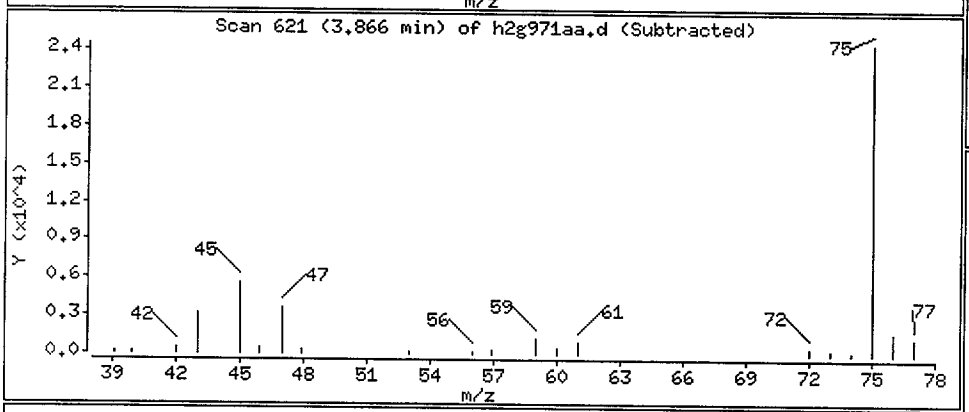
Column diameter: 0.18

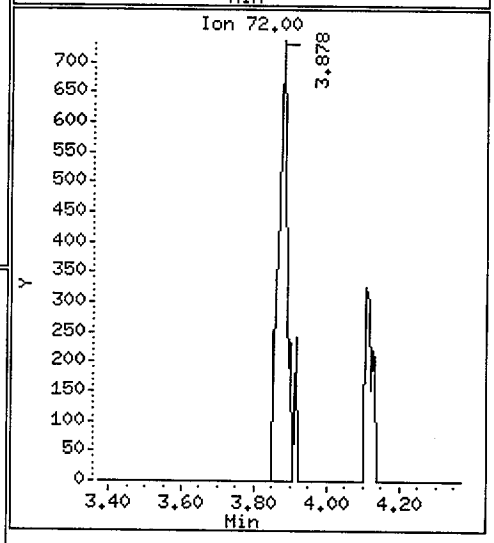
36 2-Butanone

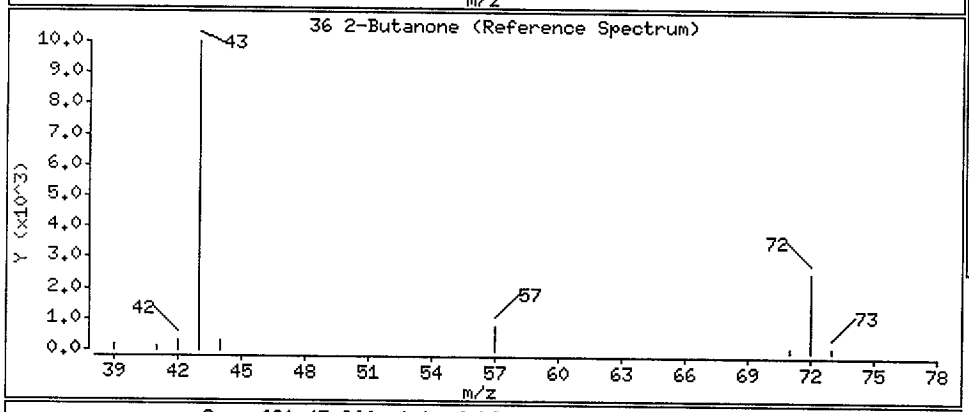
Concentration: 0.095523 ug

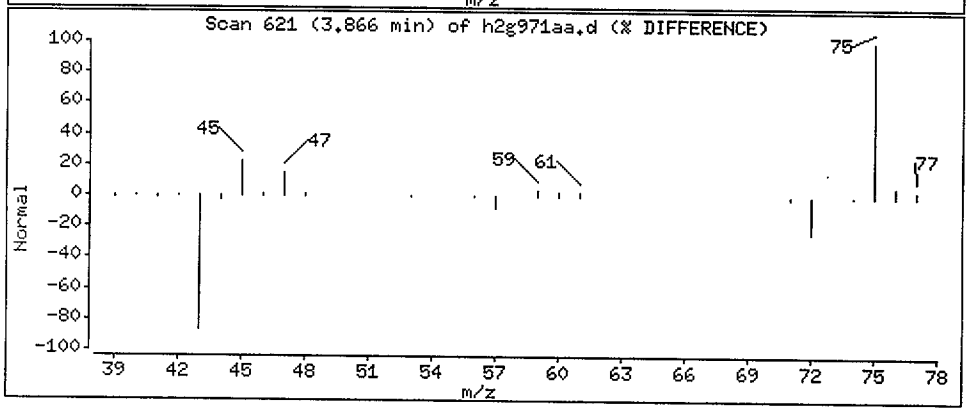












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

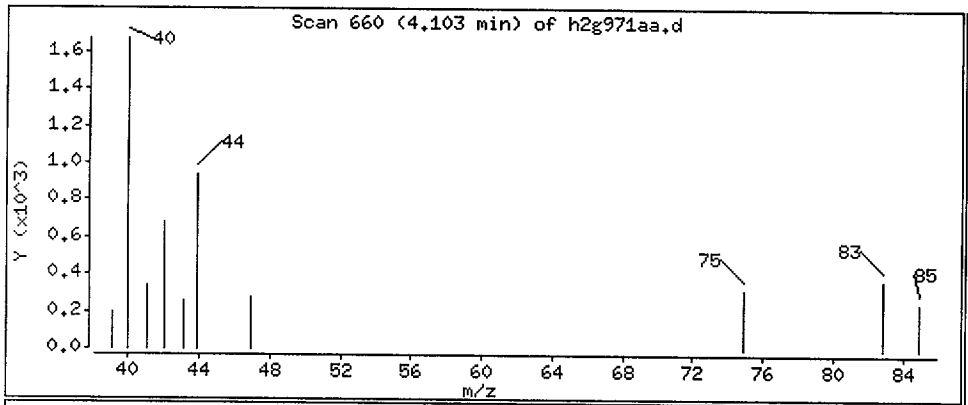
Operator: 22980

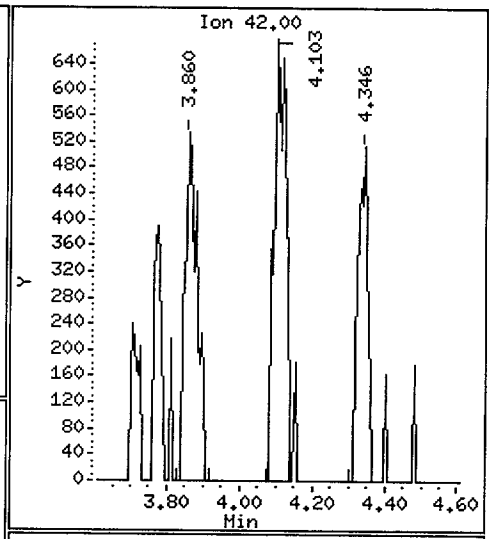
Column phase: J+W 624

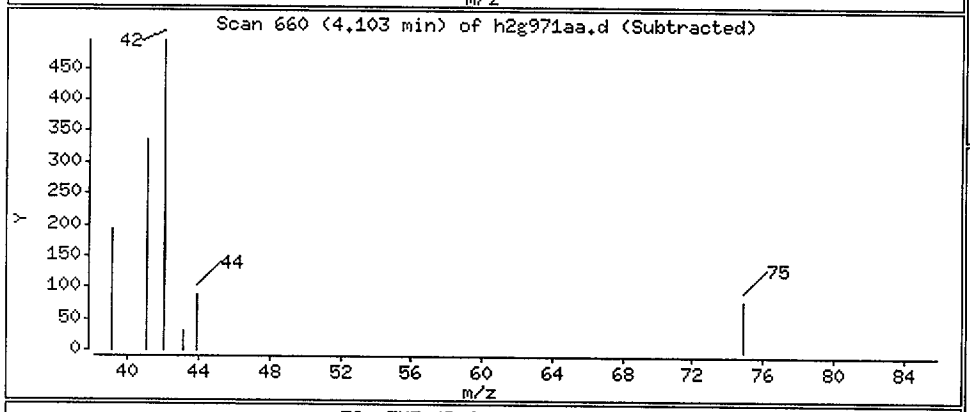
Column diameter: 0.18

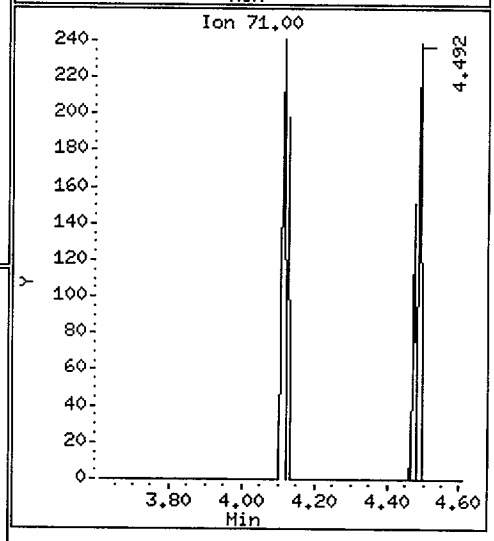
38 *THF

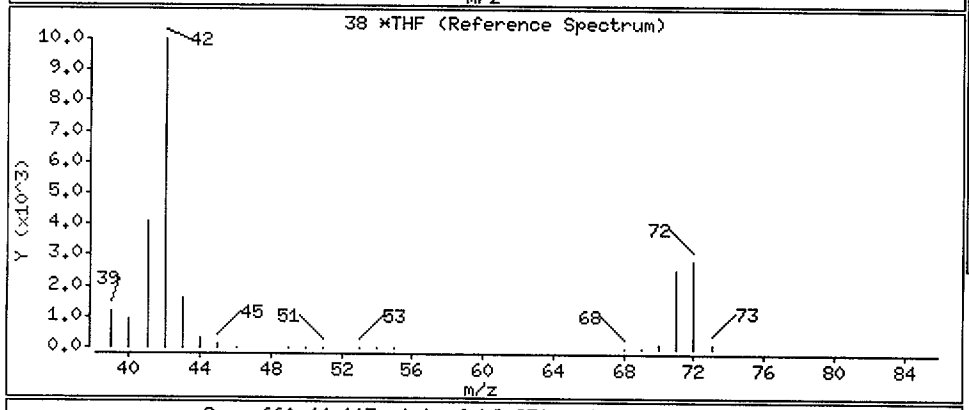
Concentration: 0.024545 ug

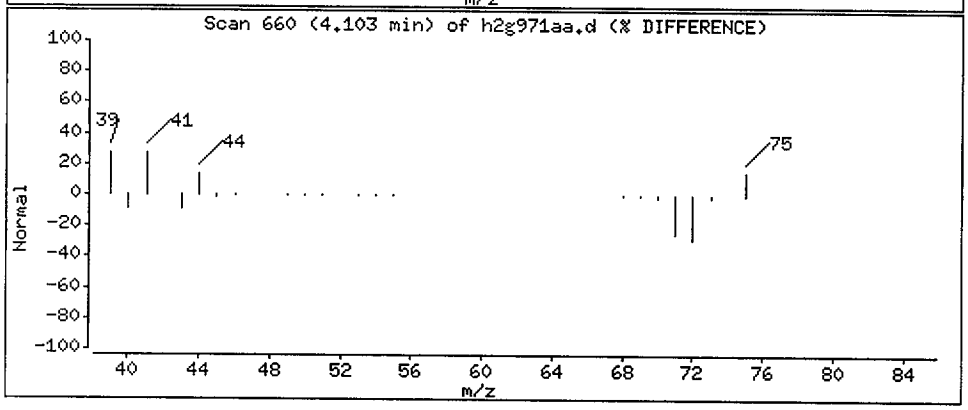












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

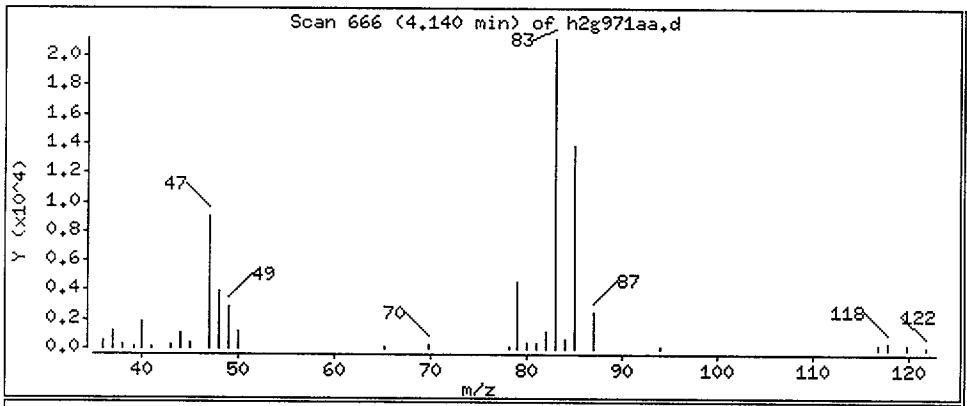
Operator: 22980

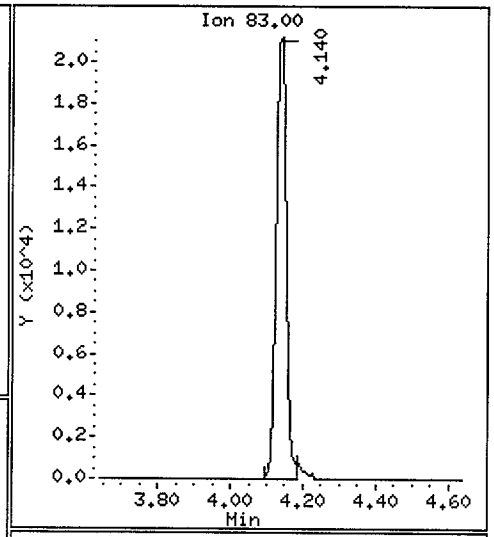
Column phase: J+W 624

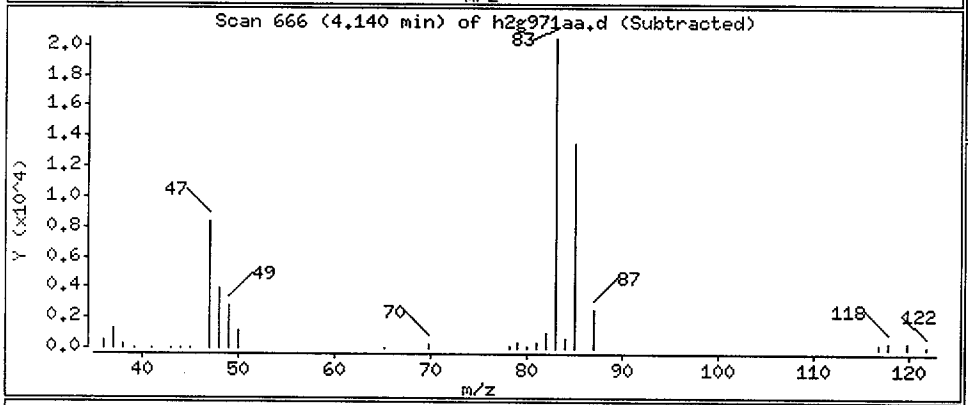
Column diameter: 0.18

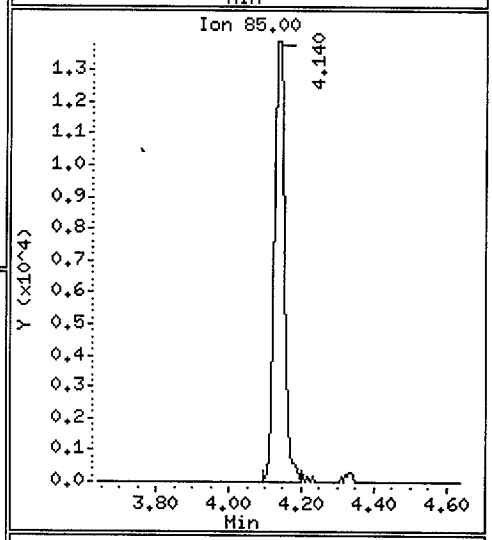
39 Chloroform (ccc)

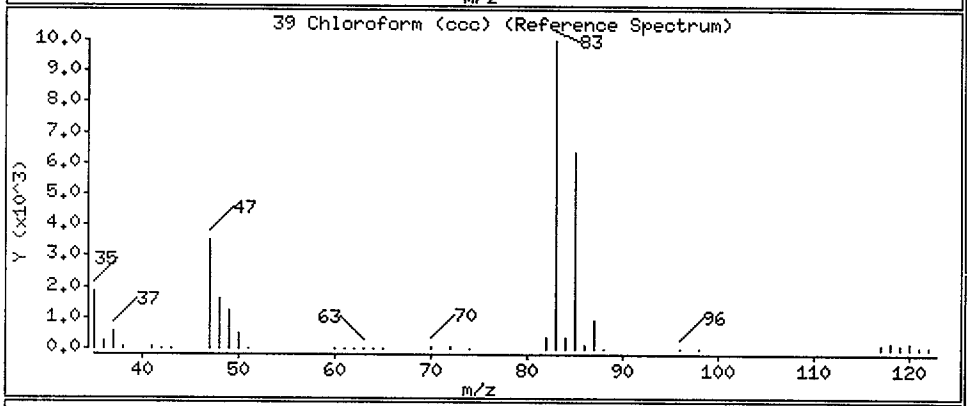
Concentration: 0.022344 ug

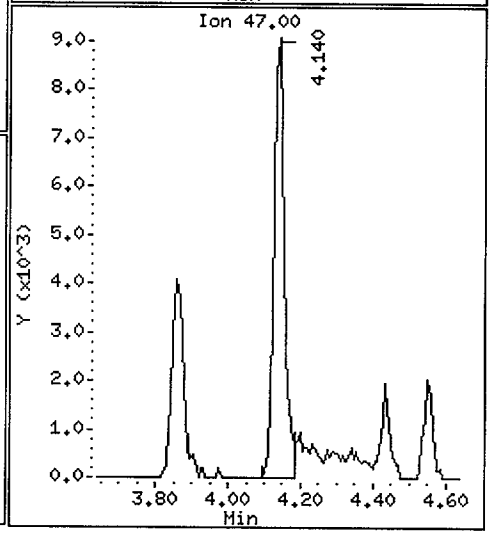


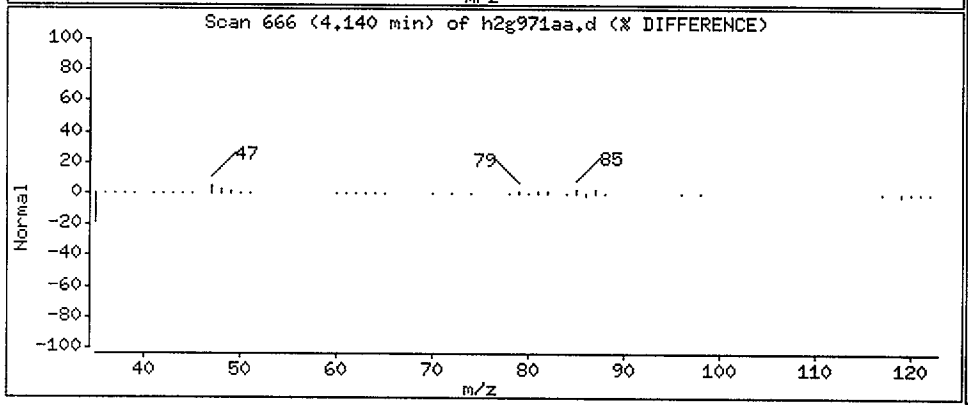












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

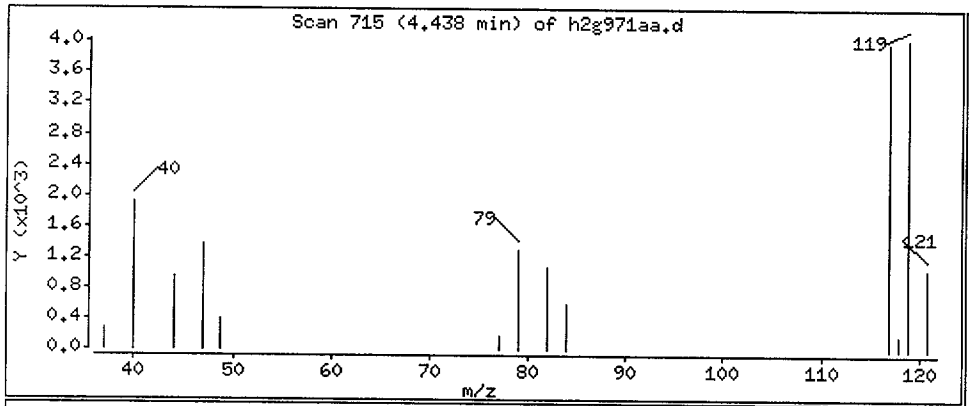
Operator: 22980

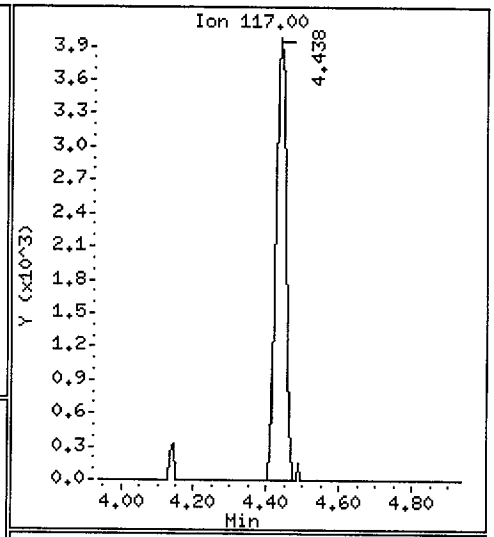
Column phase: J+W 624

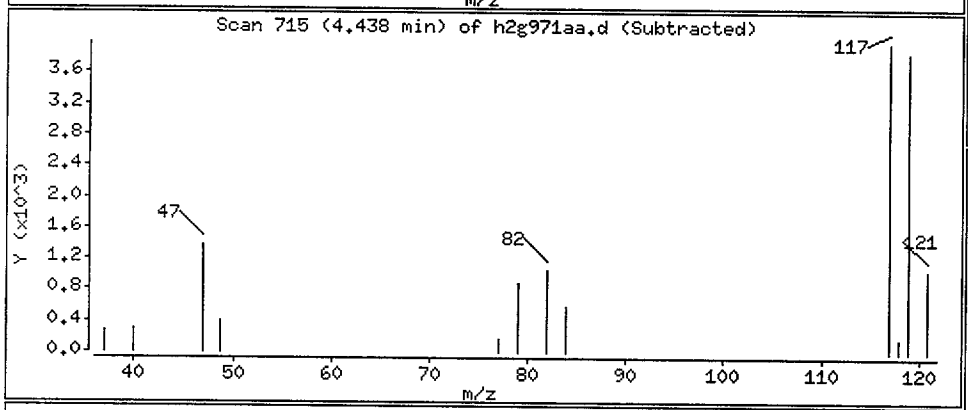
Column diameter: 0.18

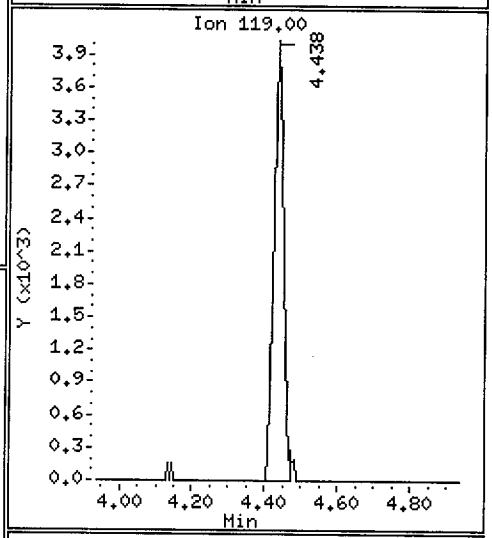
41 Carbon Tetrachloride

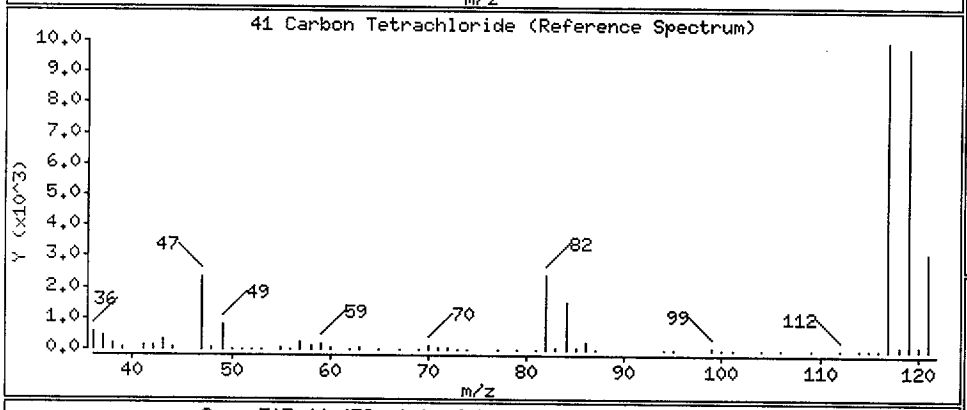
Concentration: 0.0045141 ug

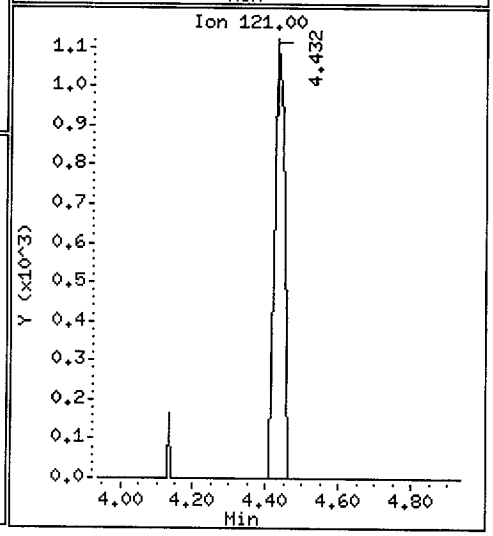


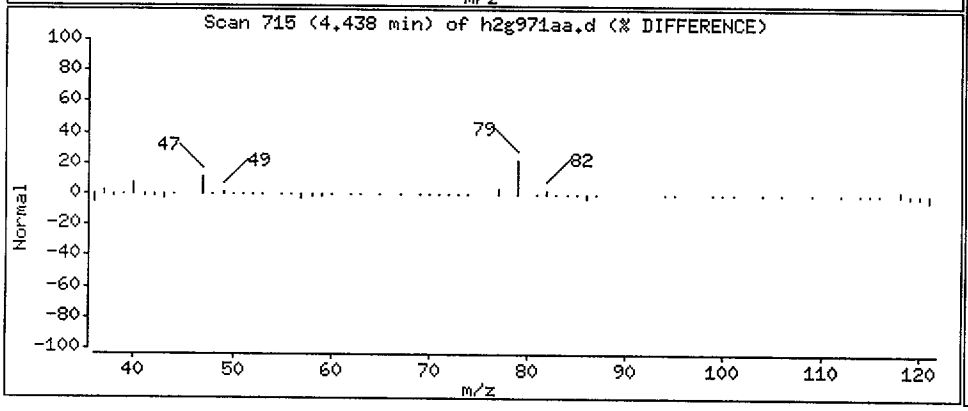












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

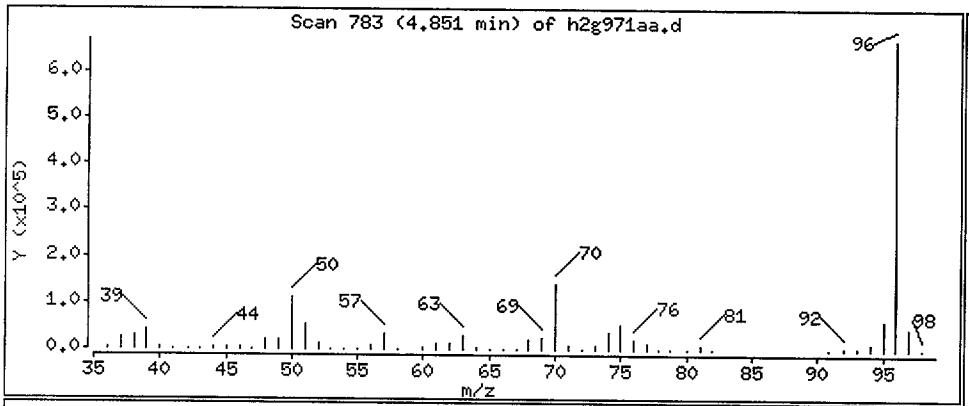
Operator: 22980

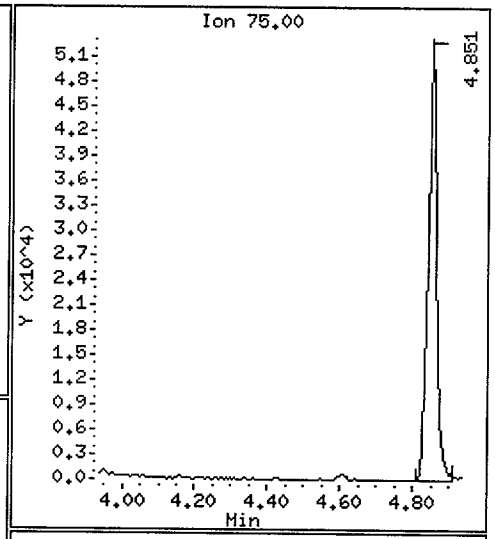
Column phase: J+W 624

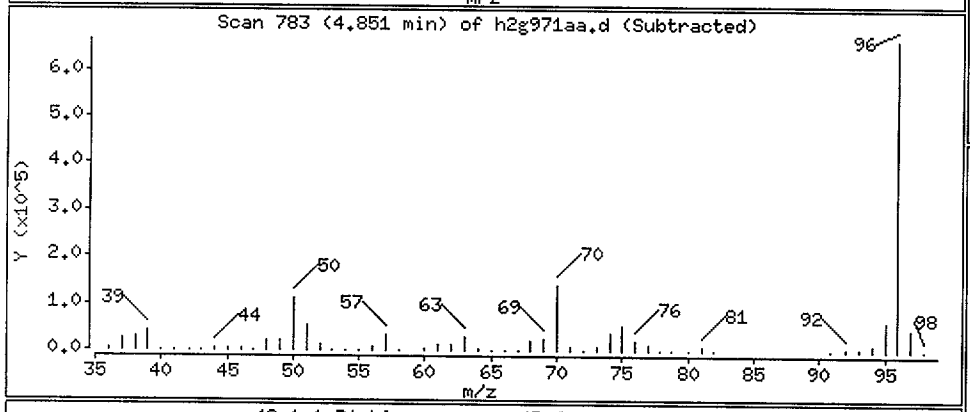
Column diameter: 0.18

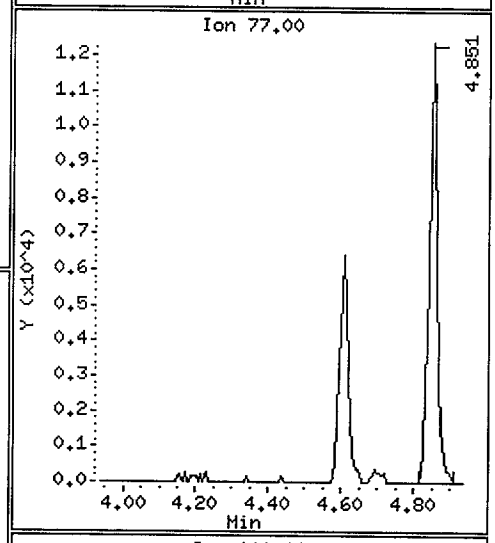
42 1,1-Dichloropropene

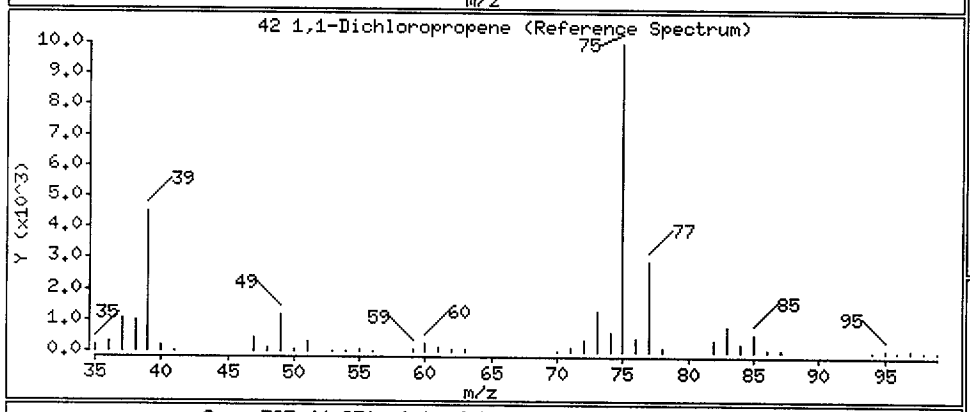
Concentration: 0.048478 ug

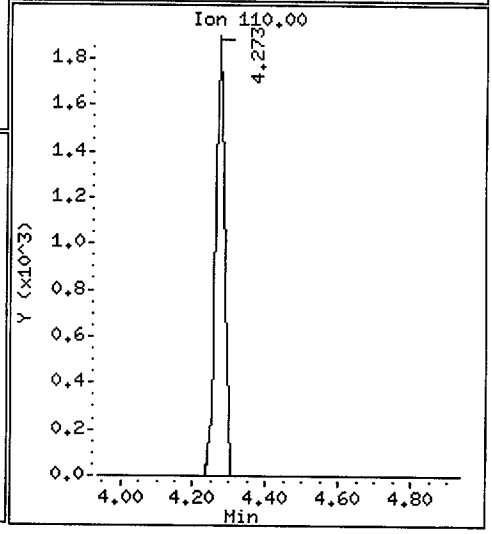


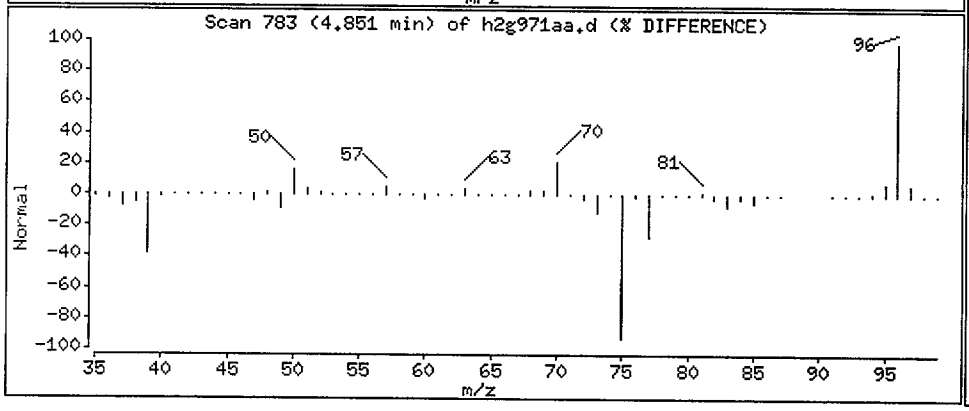












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

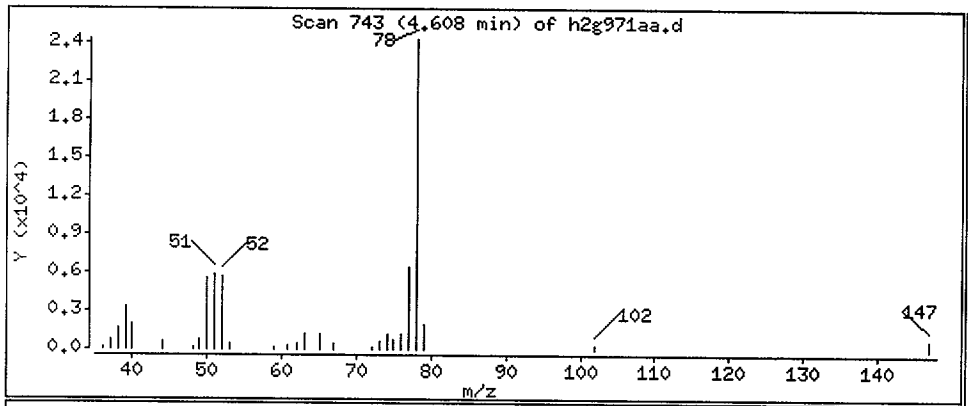
Operator: 22980

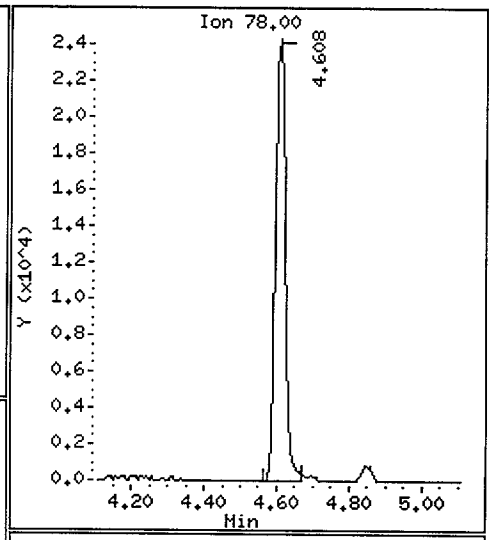
Column phase: J+W 624

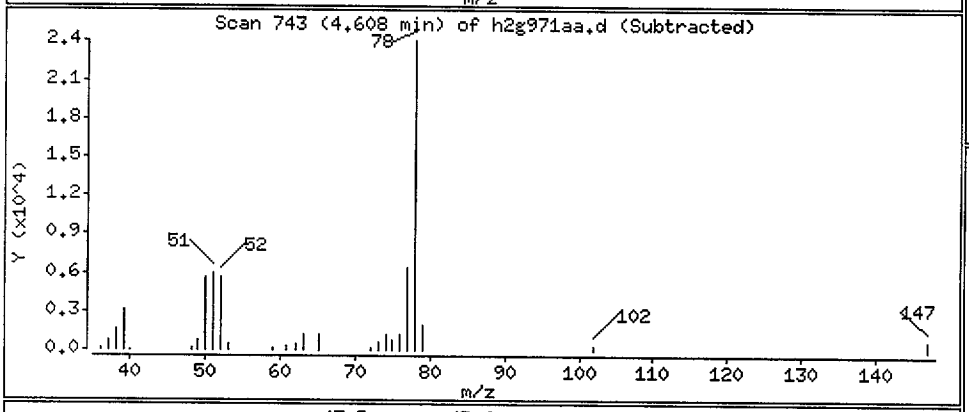
Column diameter: 0.18

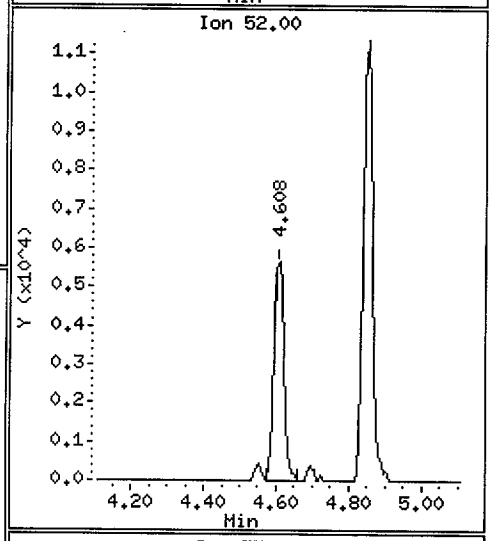
43 Benzene

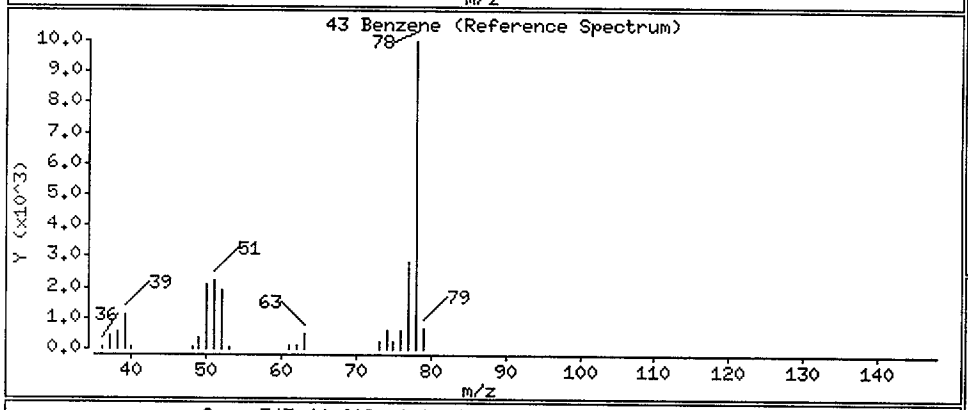
Concentration: 0.0094439 ug

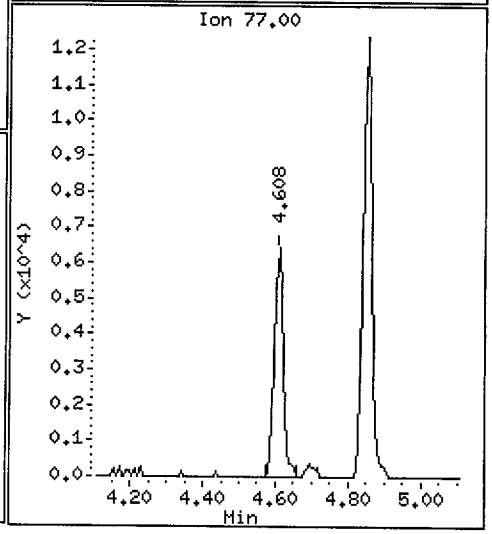


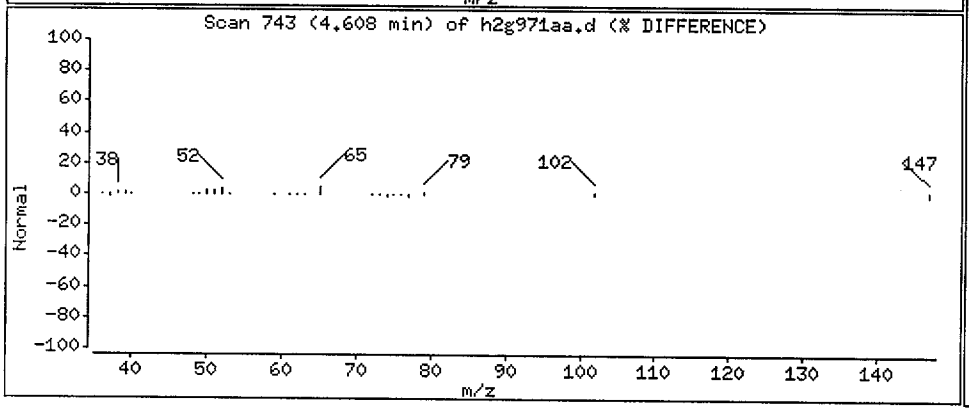












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

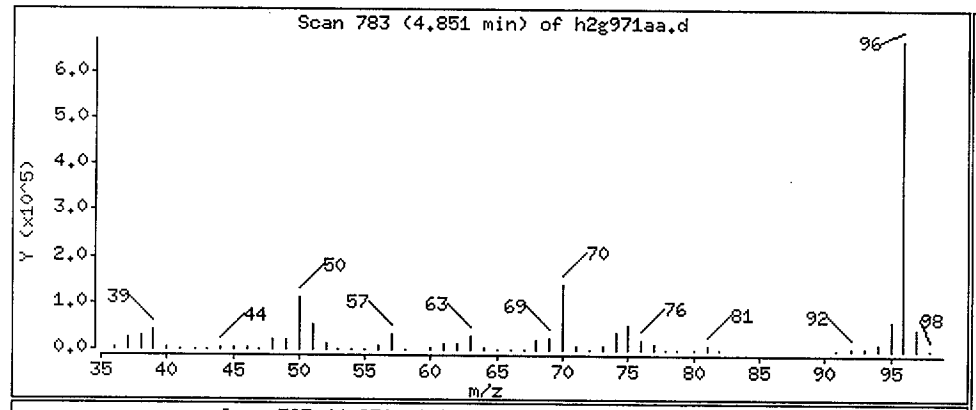
Operator: 22980

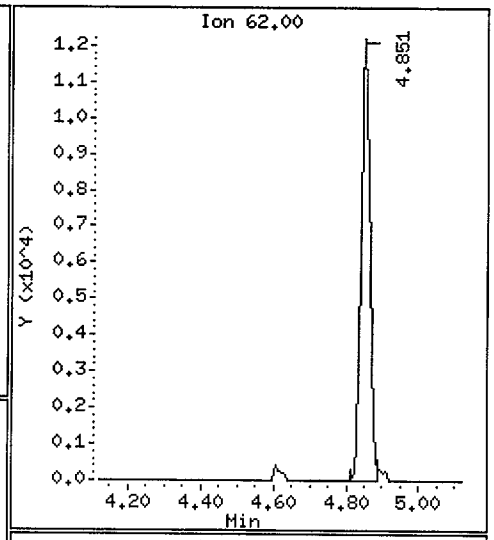
Column phase: J+W 624

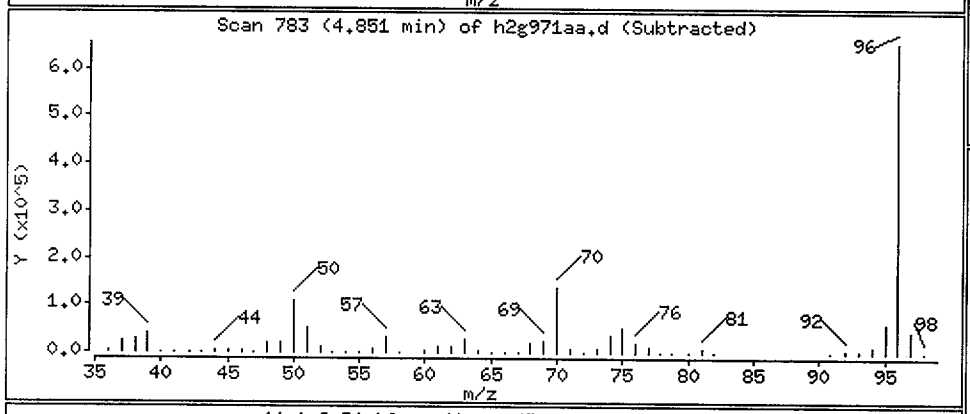
Column diameter: 0.18

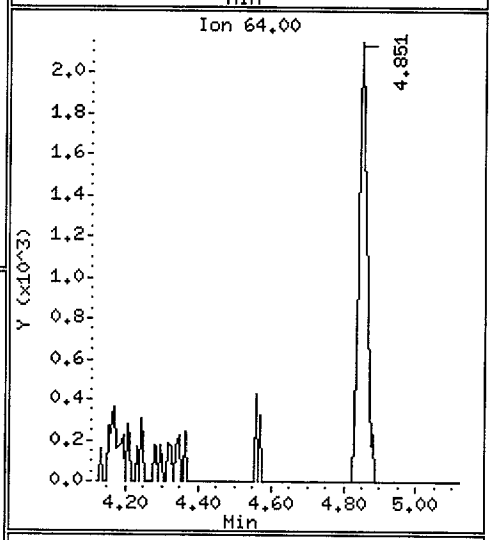
44 1,2-Dichloroethane

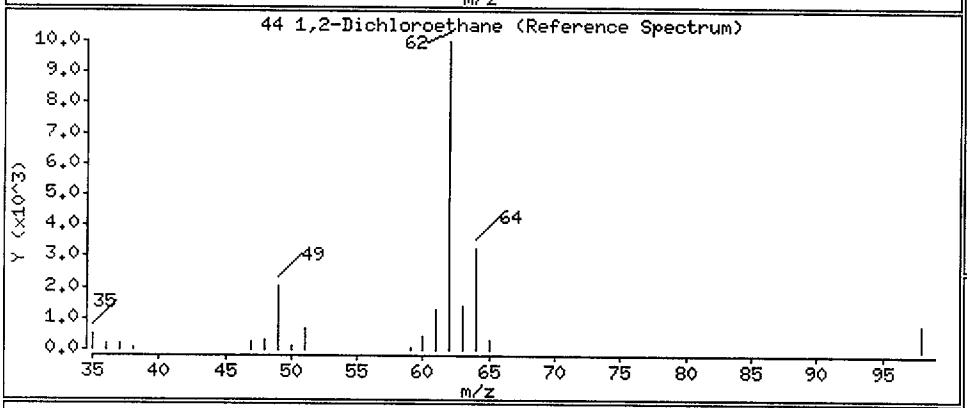
Concentration: 0.025747 ug

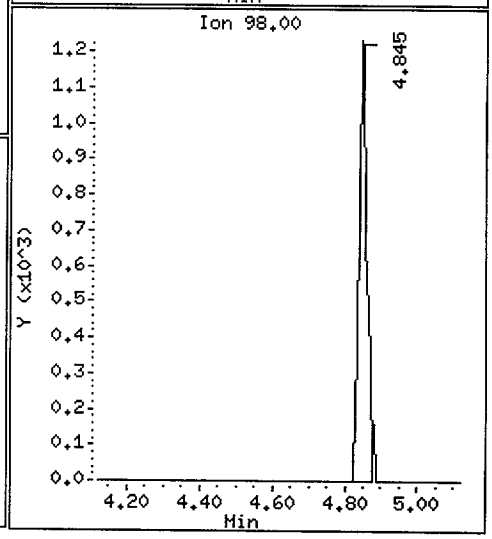


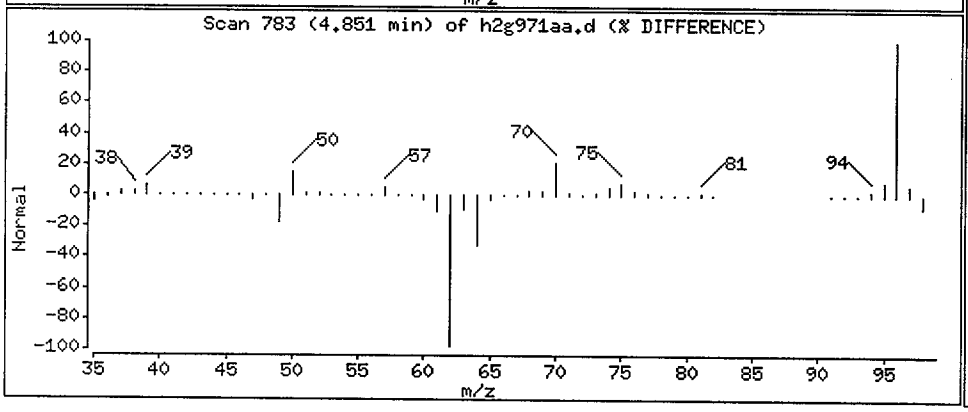












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

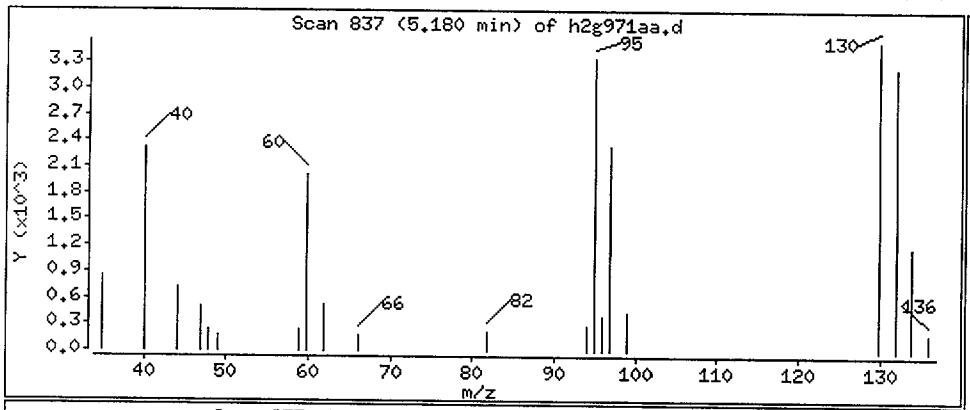
Operator: 22980

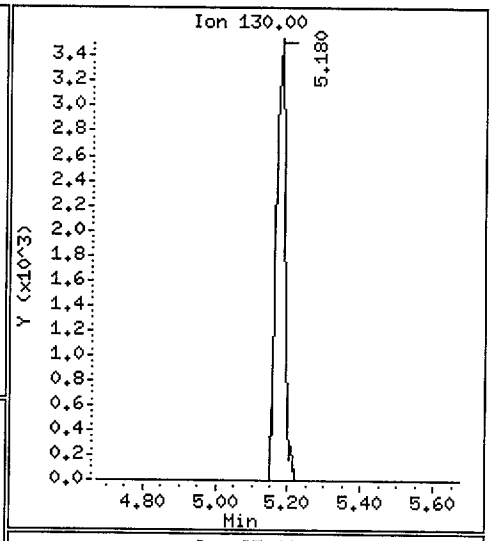
Column phase: J+W 624

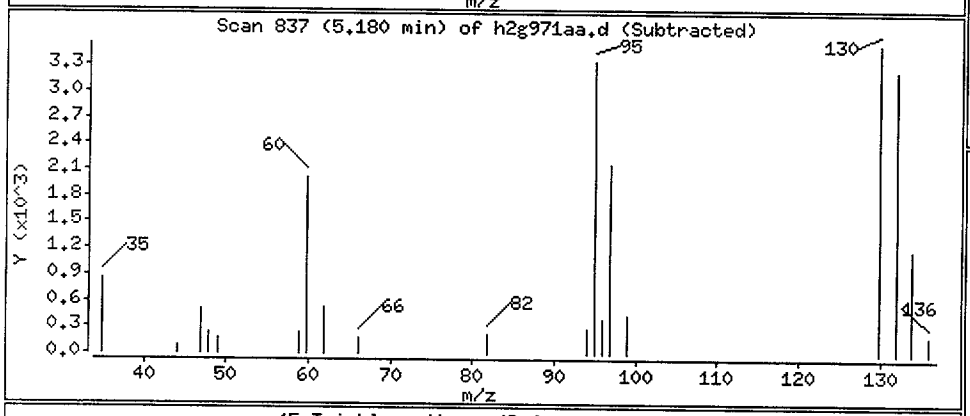
Column diameter: 0.18

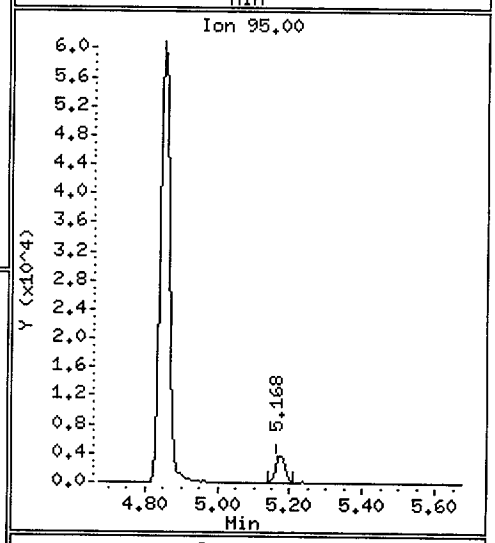
45 Trichloroethene

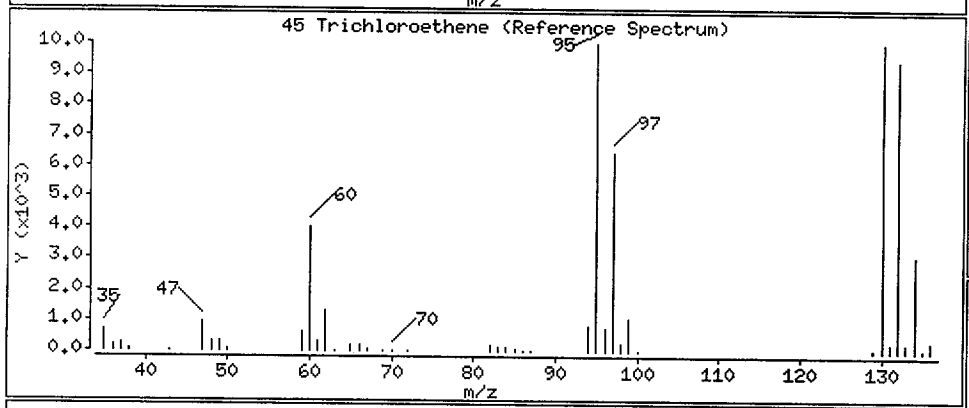
Concentration: 0.0046350 ug

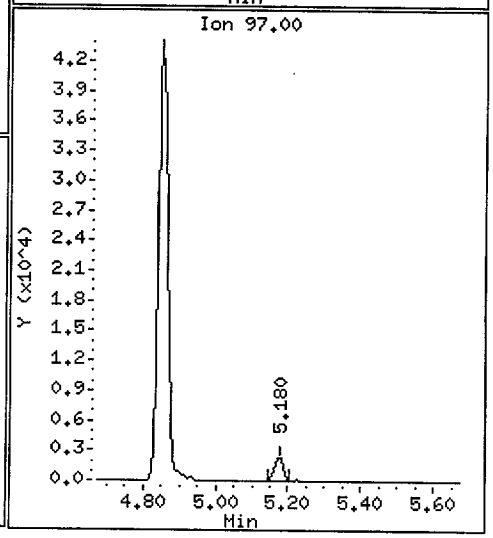


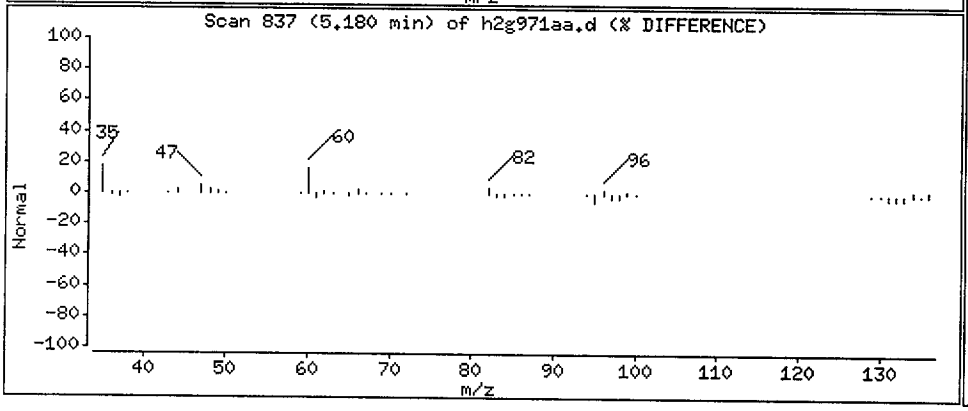












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

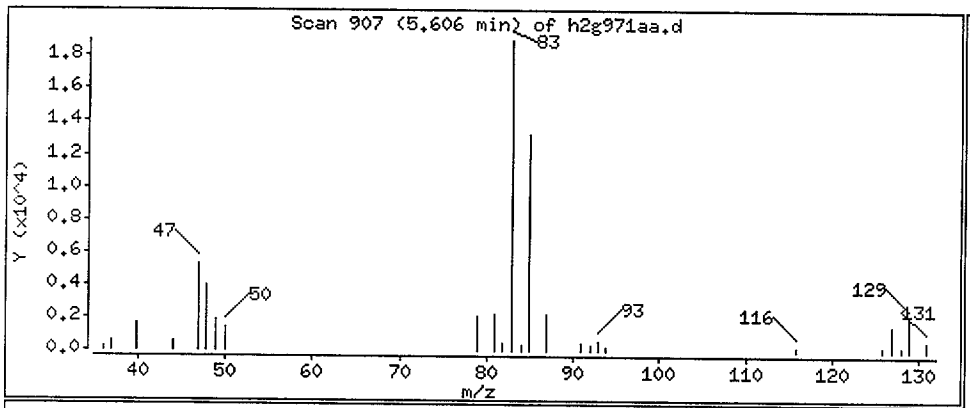
Operator: 22980

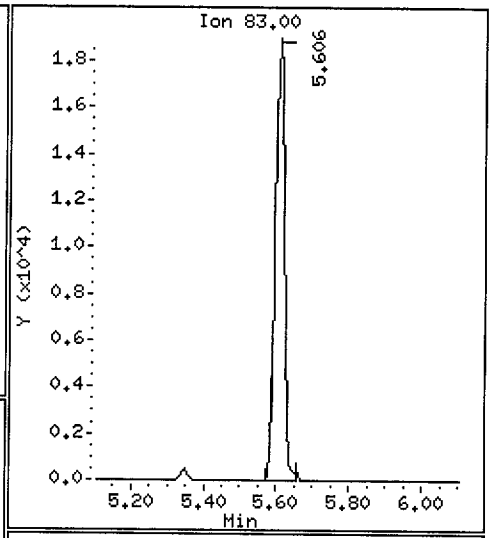
Column phase: J+W 624

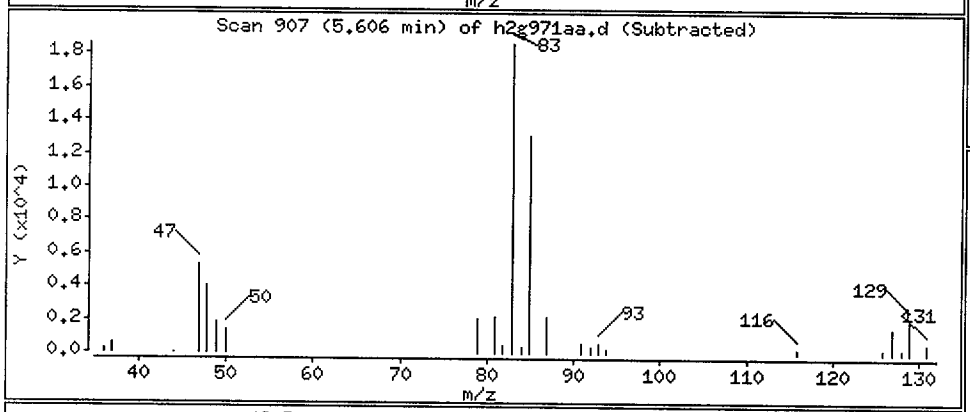
Column diameter: 0.18

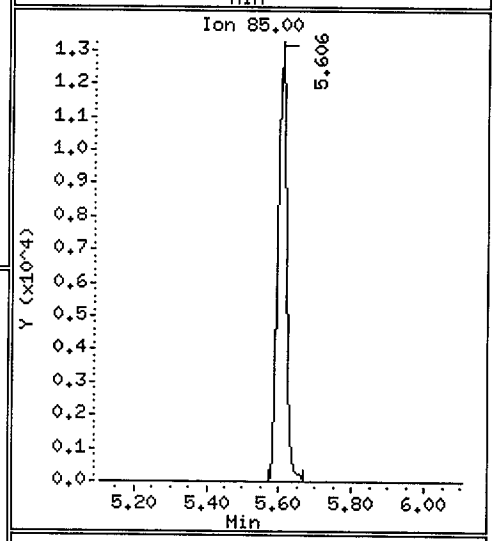
49 Bromodichloromethane

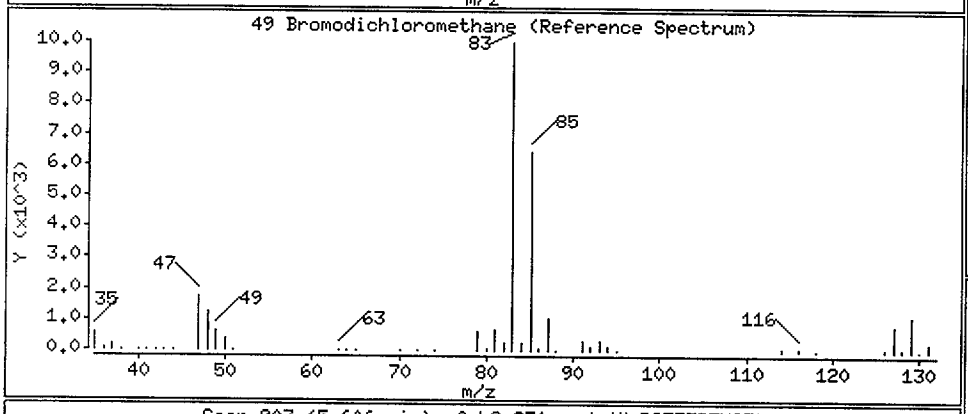
Concentration: 0.032760 ug

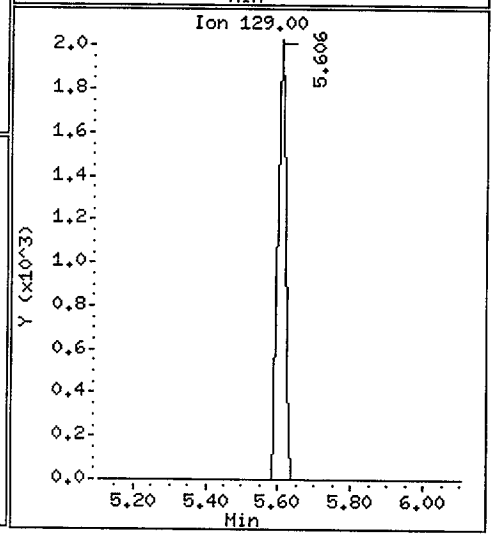


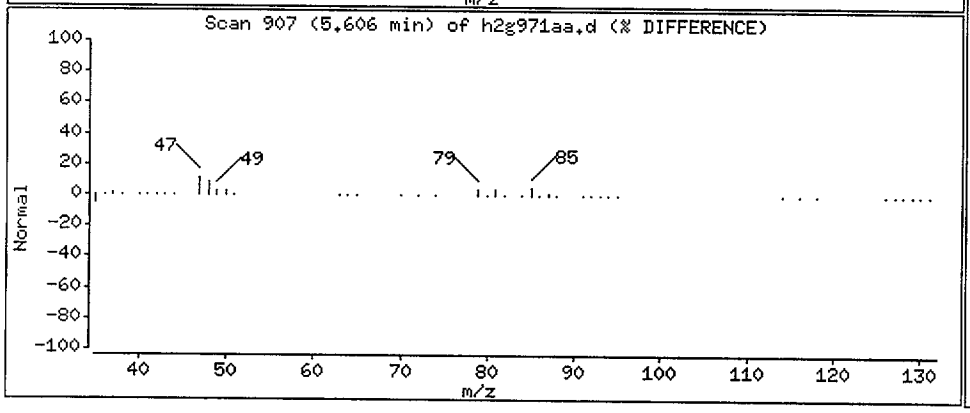












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

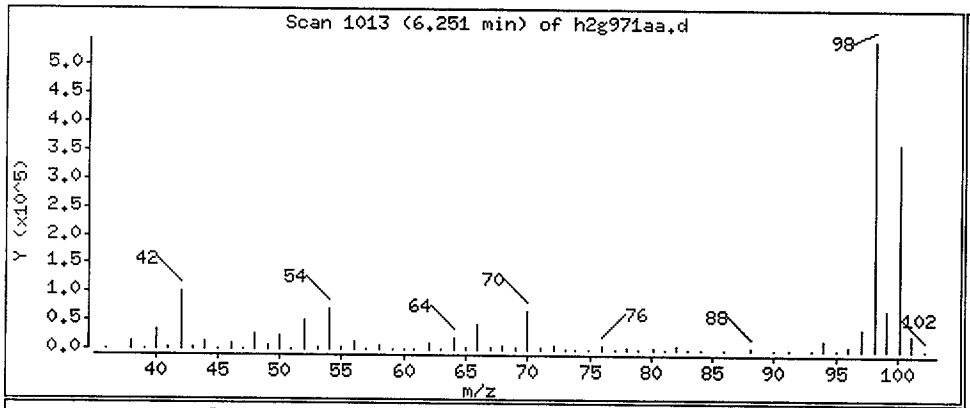
Operator: 22980

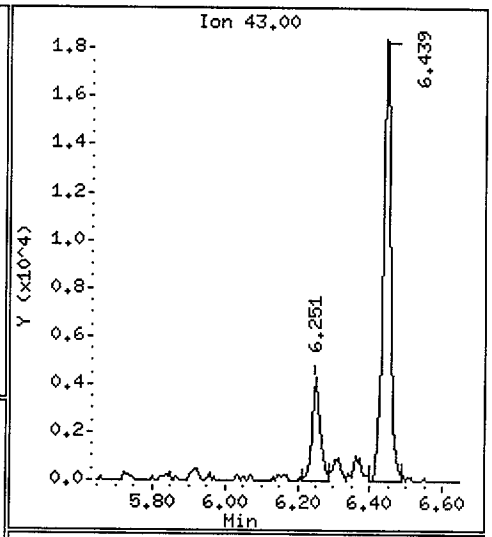
Column phase: J+W 624

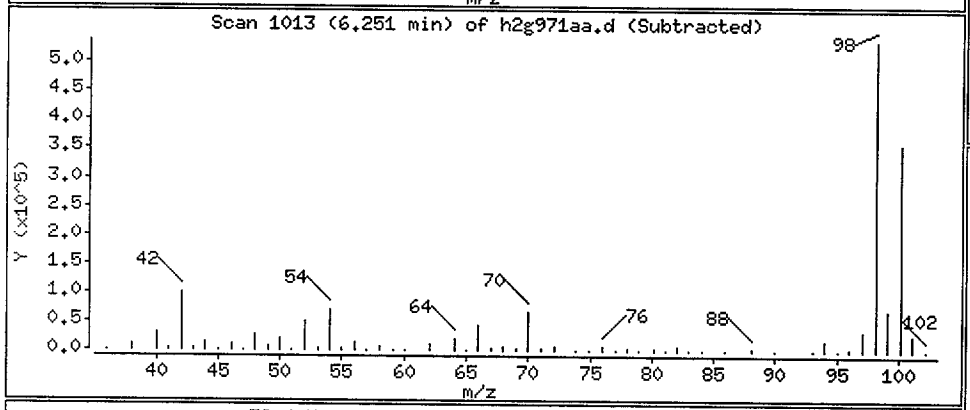
Column diameter: 0.18

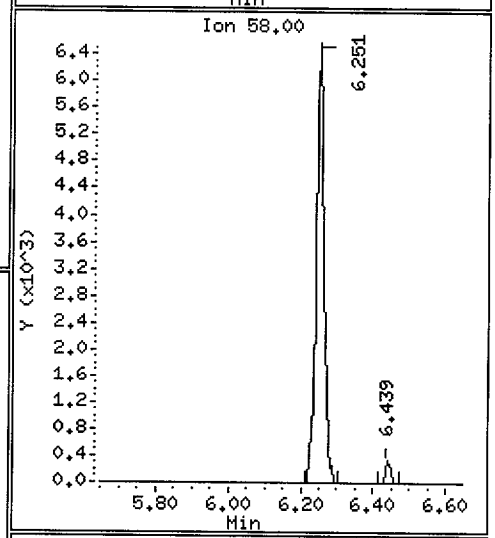
52 4-Methyl-2-pentanone

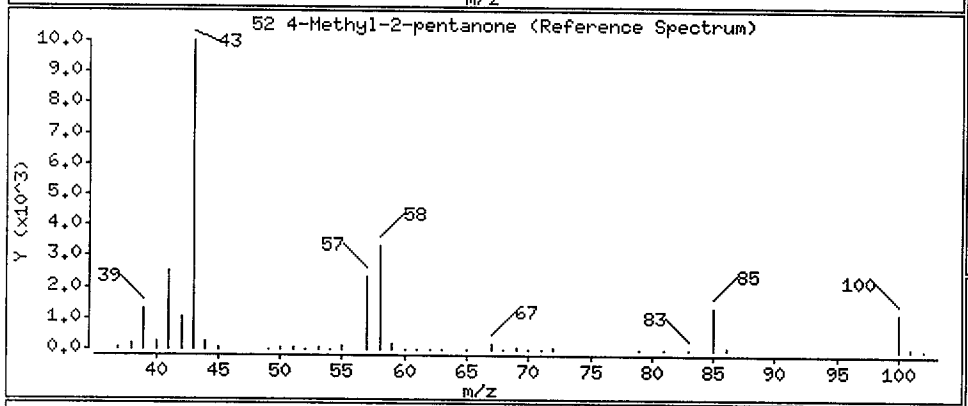
Concentration: 0.028018 ug

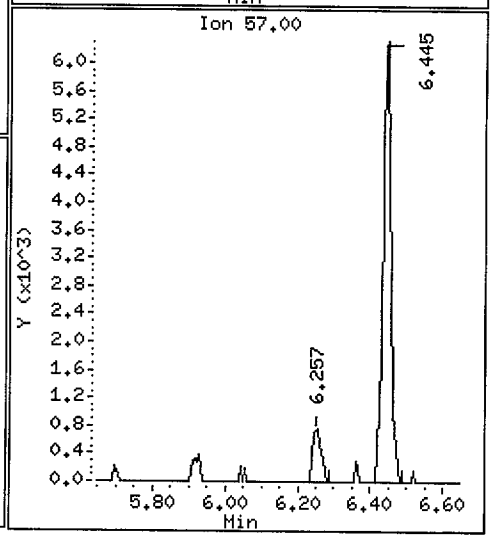


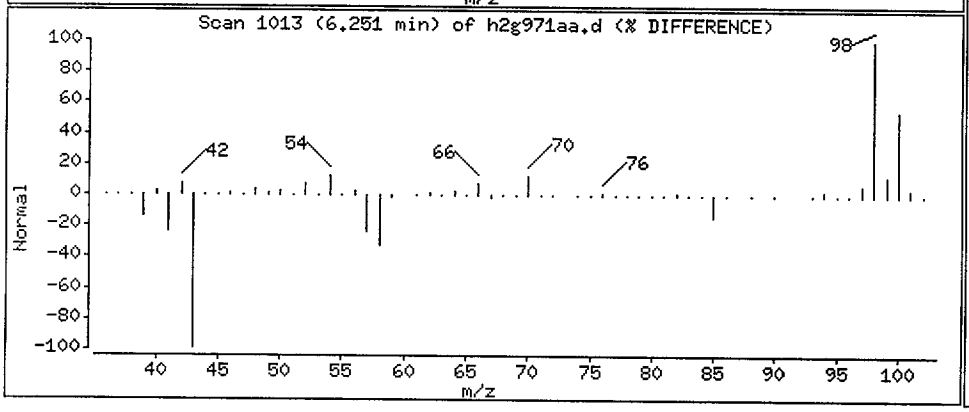












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

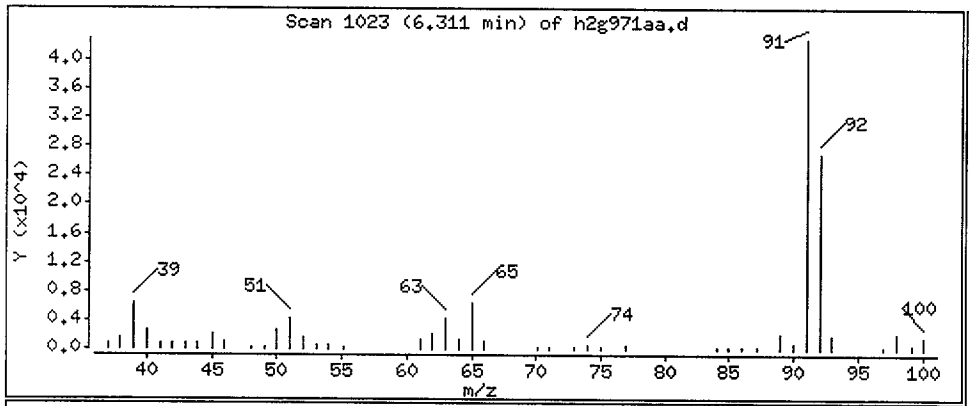
Operator: 22980

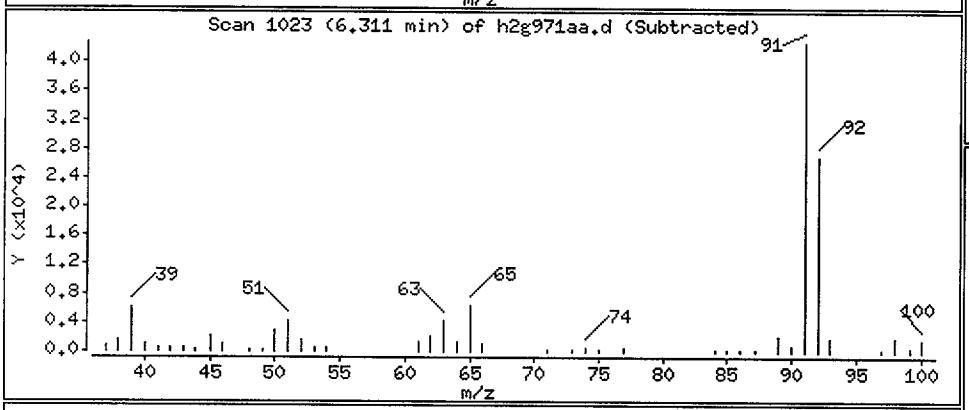
Column phase: J+W 624

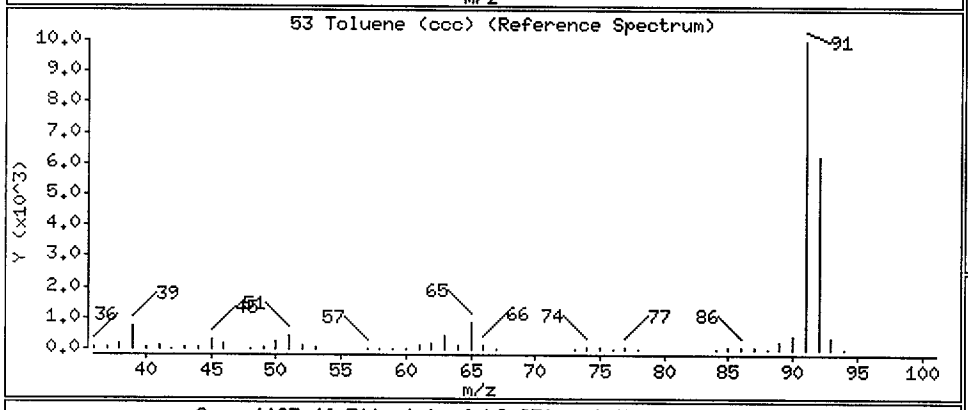
Column diameter: 0.18

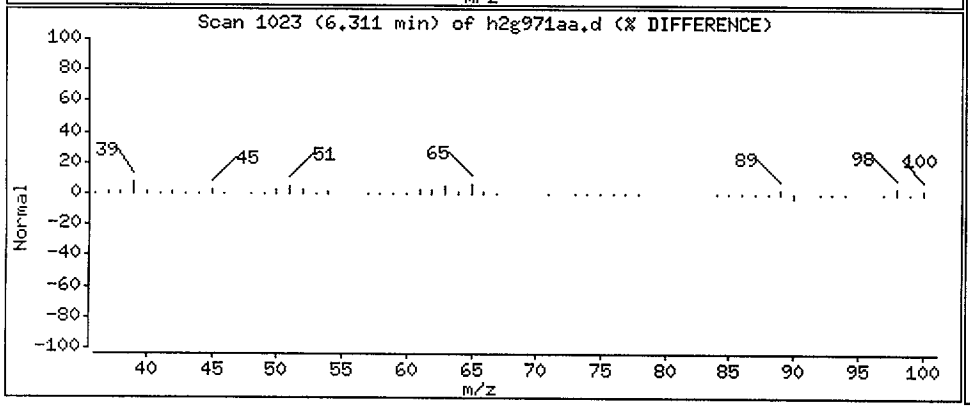
53 Toluene (ccc)

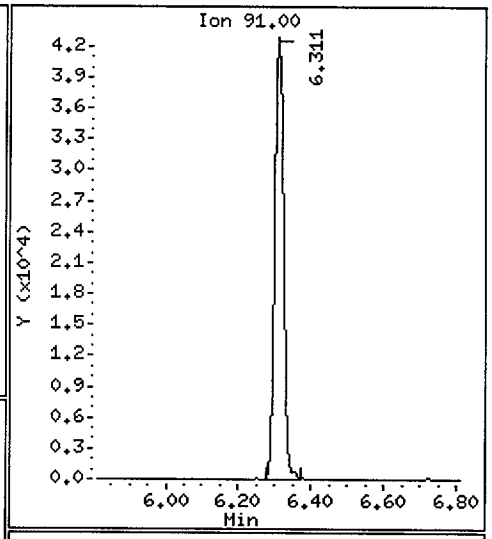
Concentration: 0.013165 ug

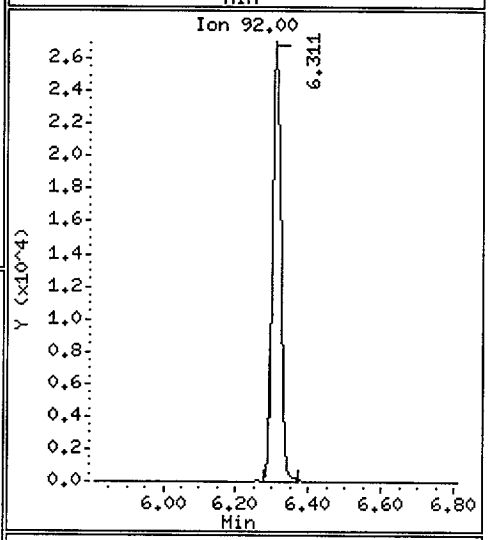


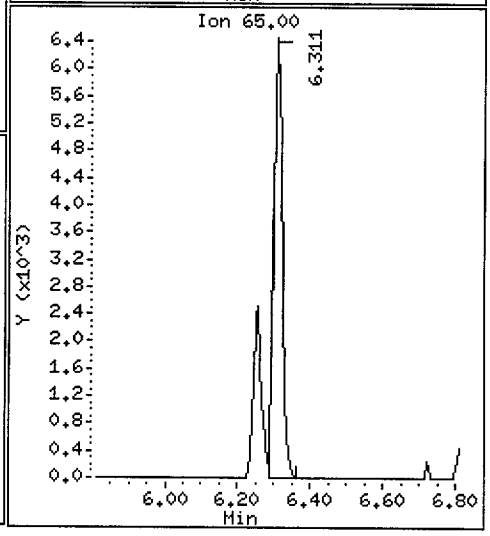












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

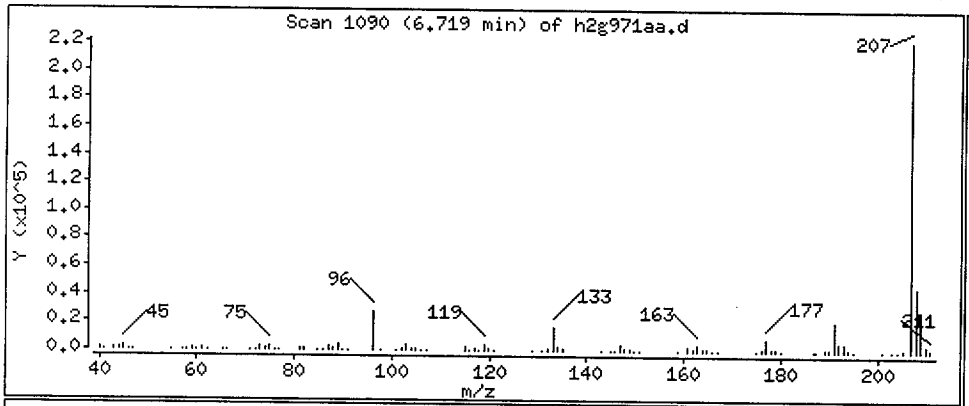
Operator: 22980

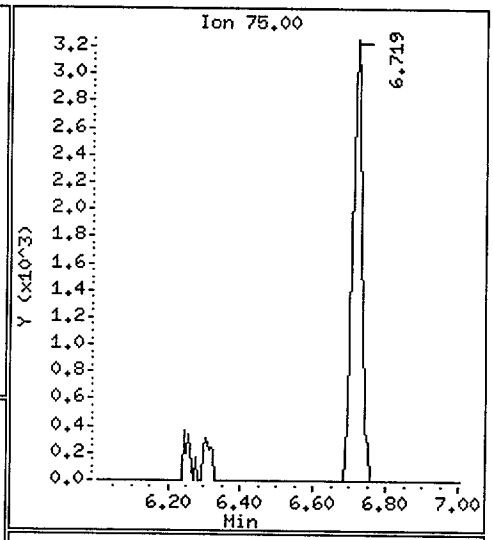
Column phase: J+W 624

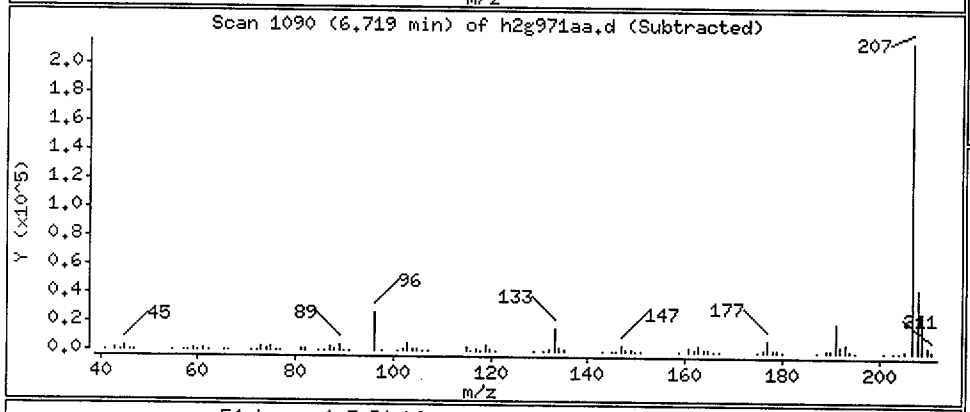
Column diameter: 0.18

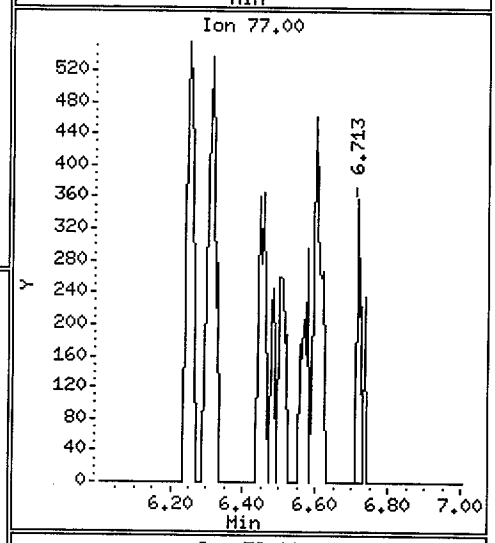
54 trans-1,3-Dichloropropene

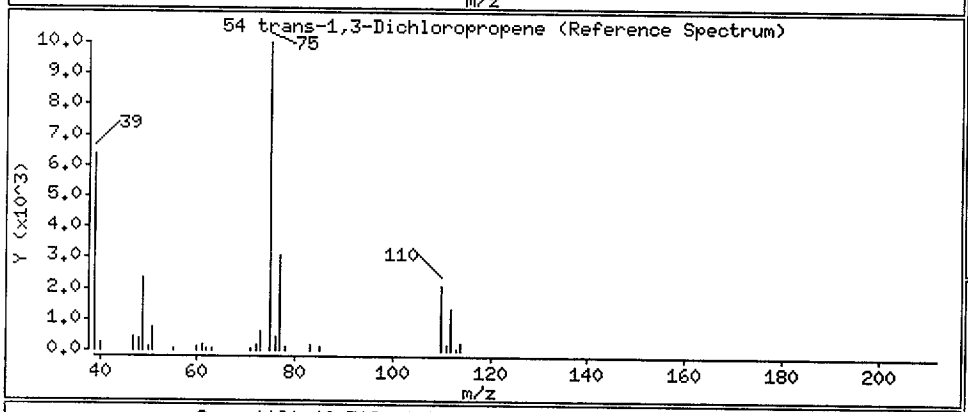
Concentration: 0.0065111 ug

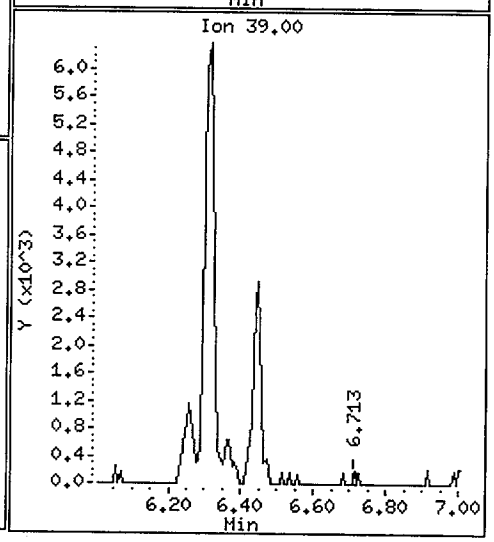


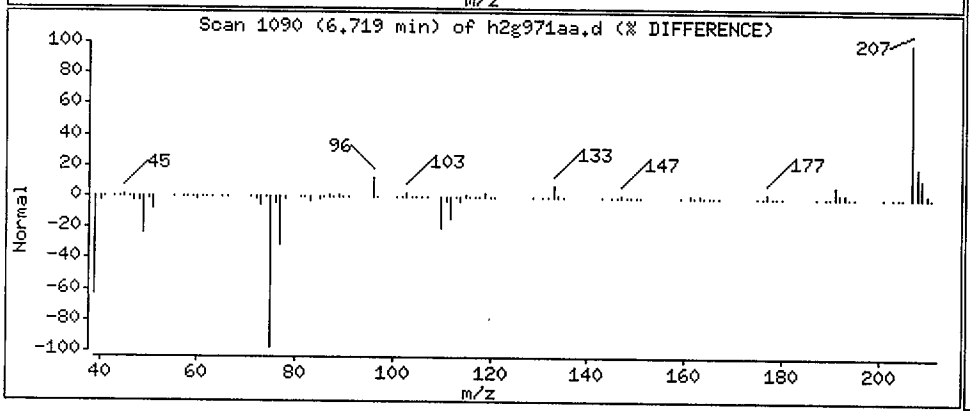












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

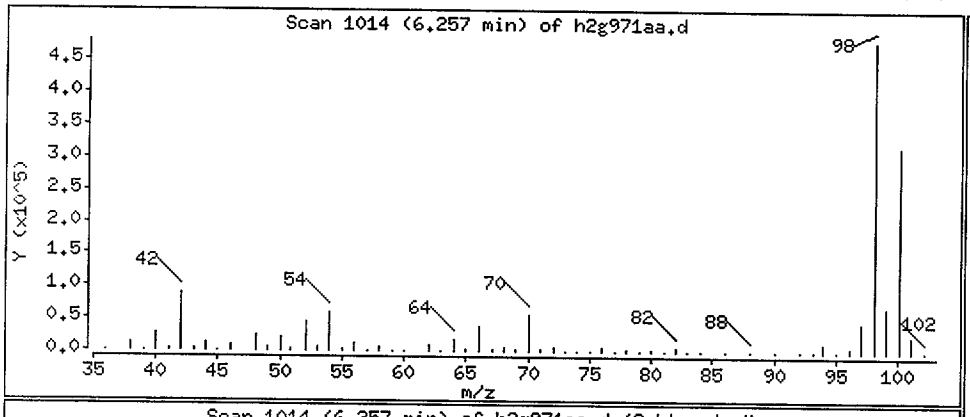
Operator: 22980

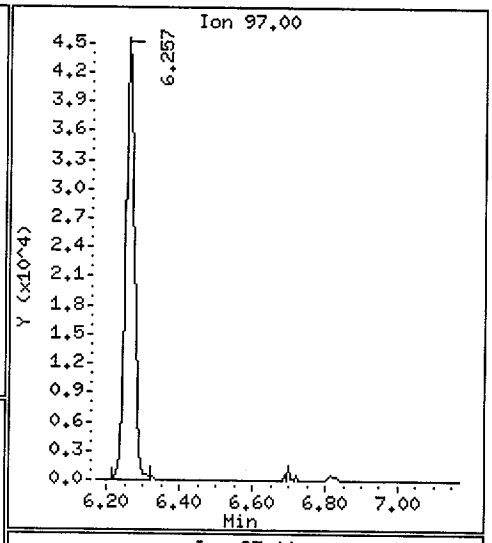
Column phase: J+W 624

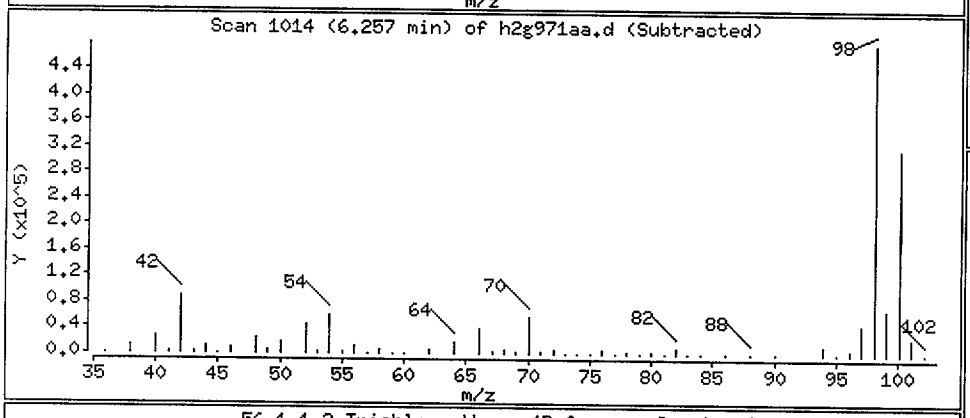
Column diameter: 0.18

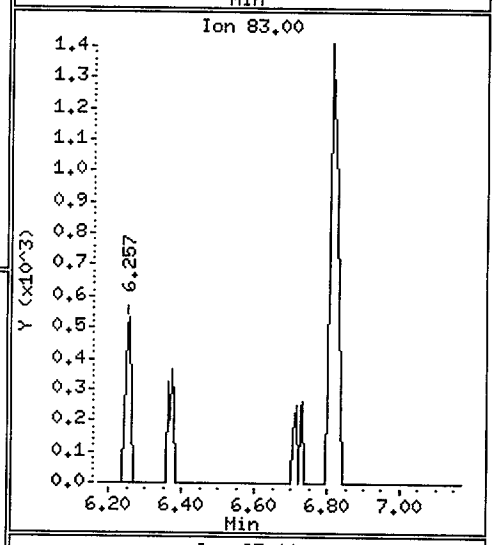
56 1,1,2-Trichloroethane

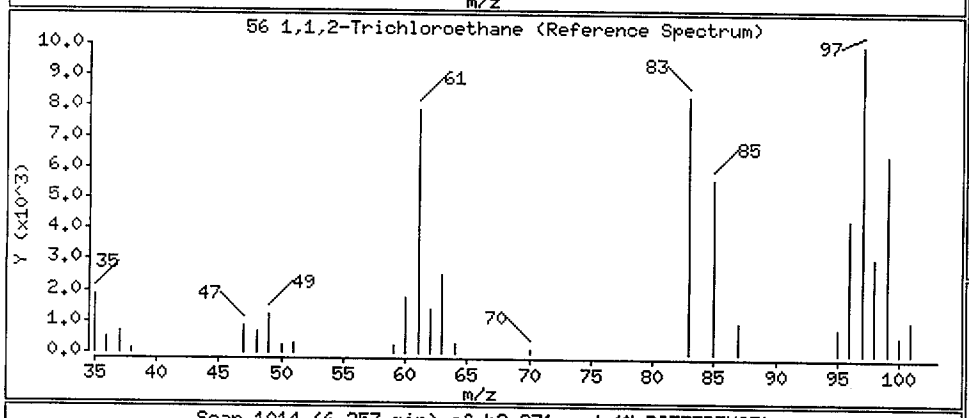
Concentration: 0.18984 ug

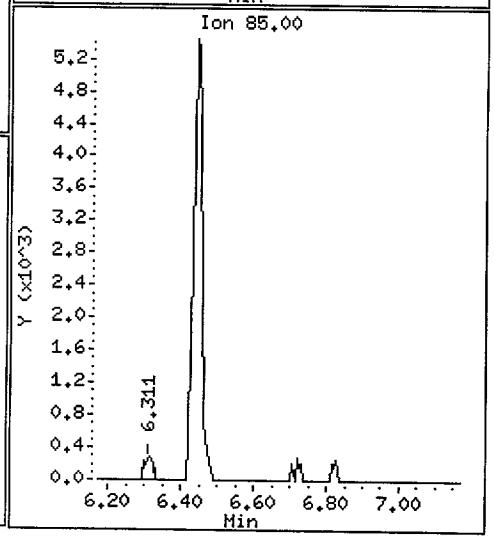


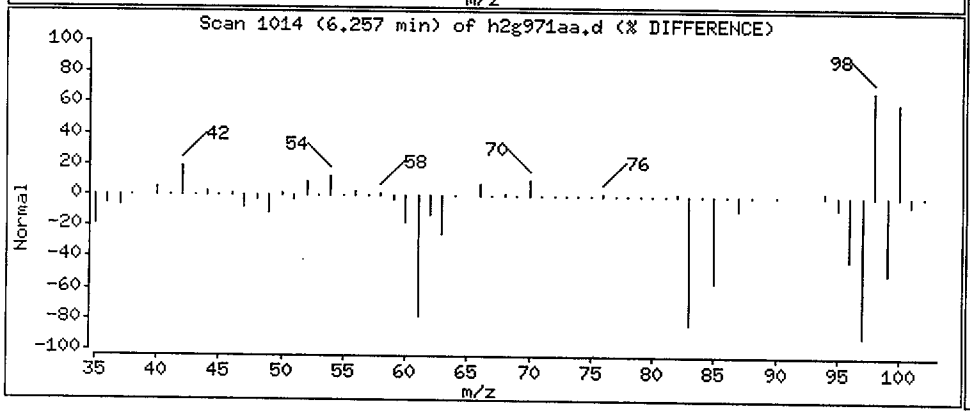












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

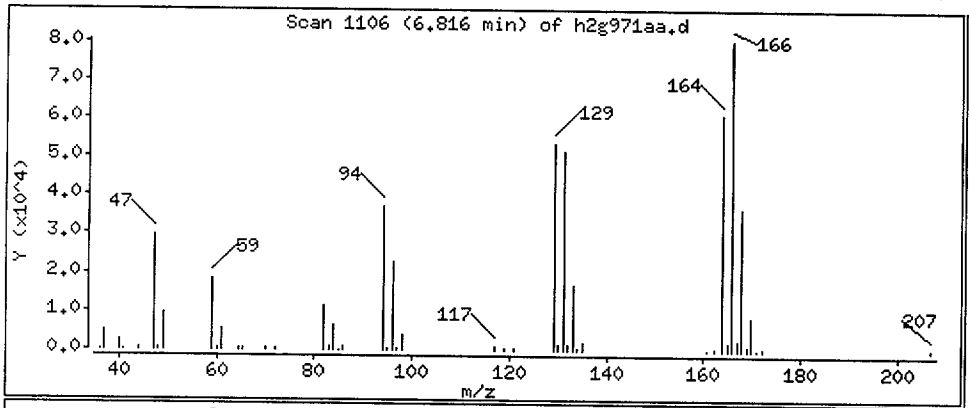
Operator: 22980

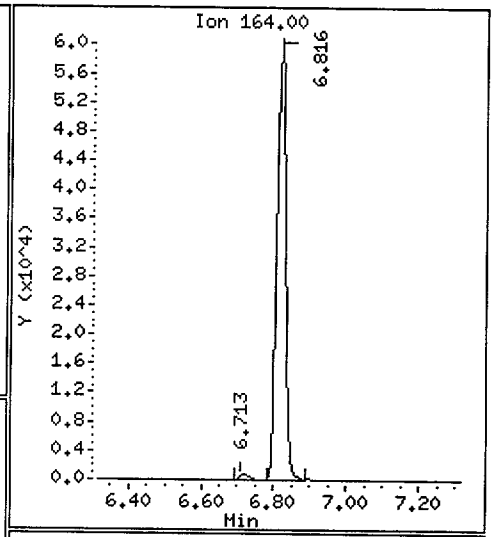
Column phase: J+W 624

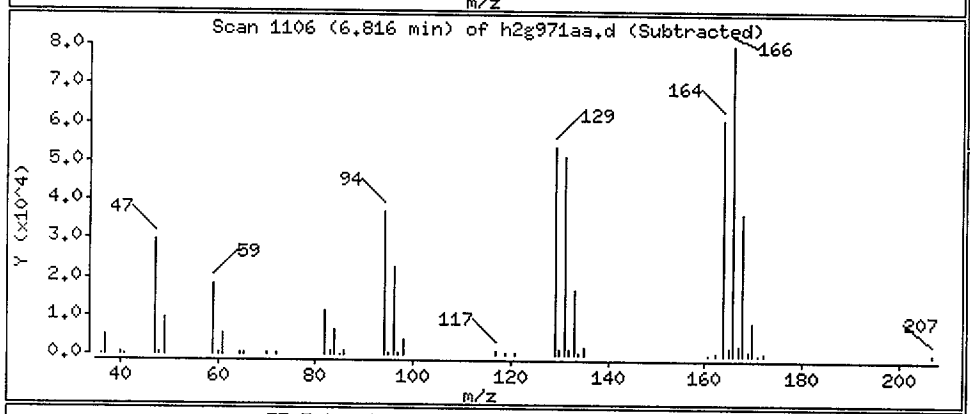
Column diameter: 0.18

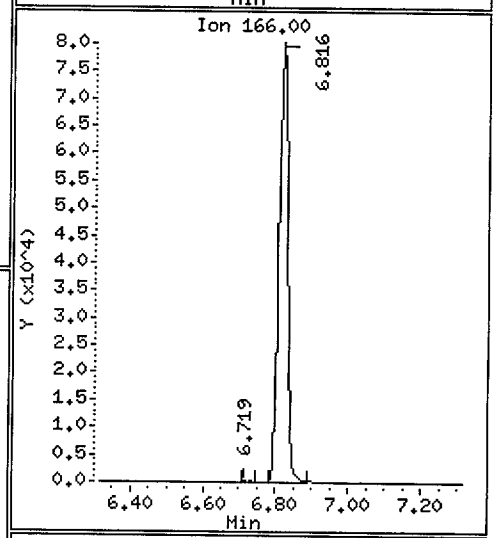
57 Tetrachloroethene

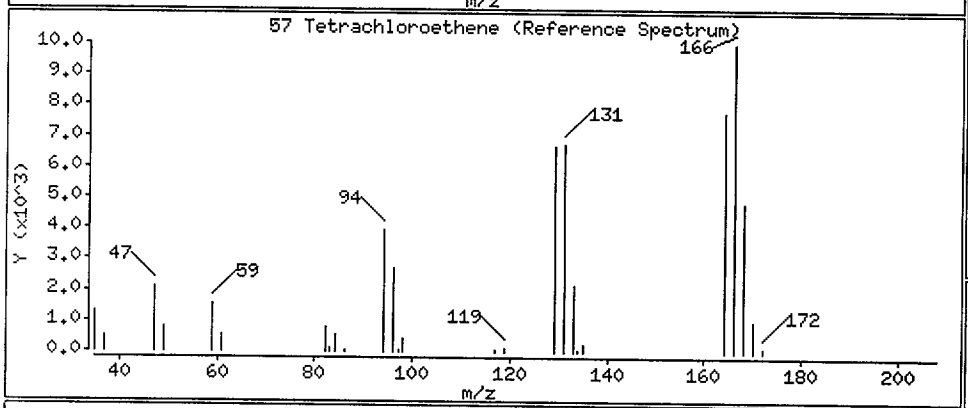
Concentration: 0.086558 ug

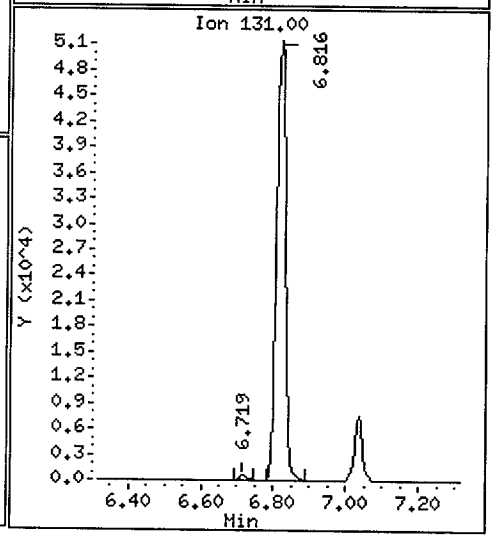


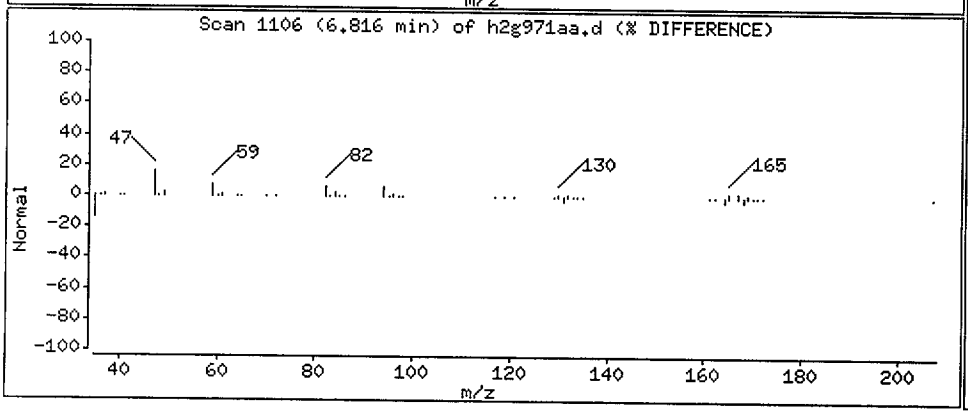












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

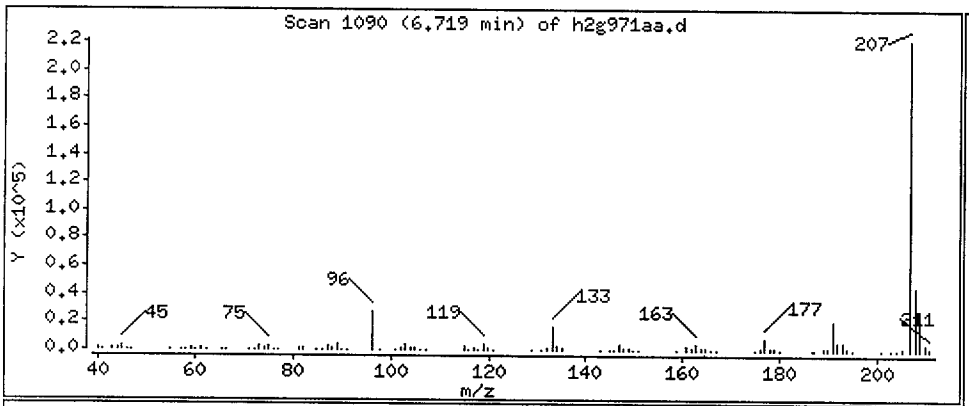
Operator: 22980

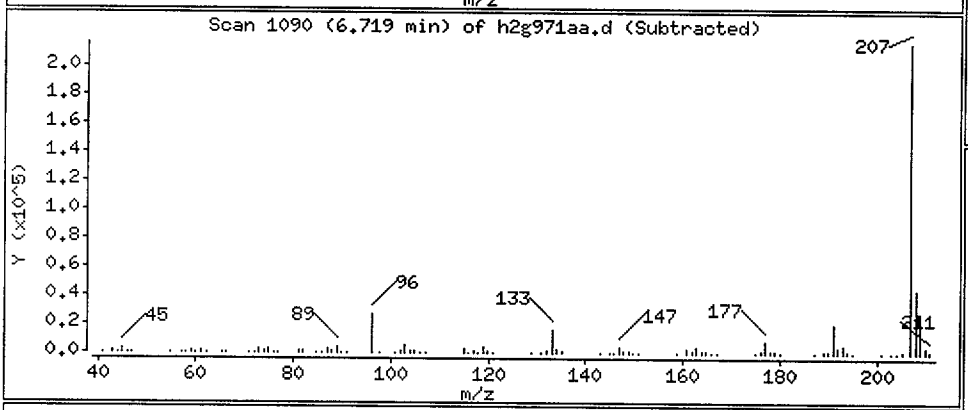
Column phase: J+W 624

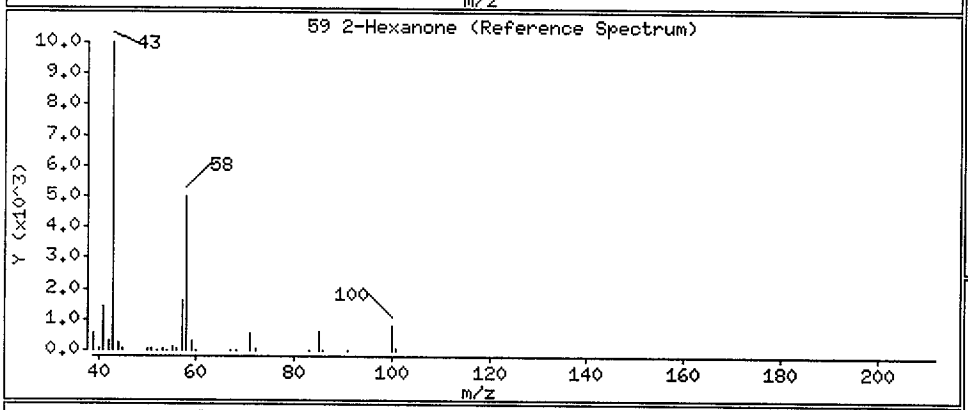
Column diameter: 0.18

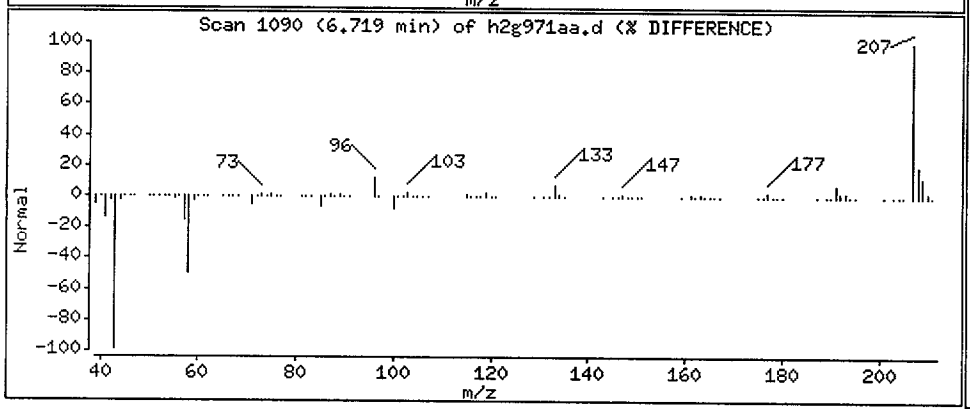
59 2-Hexanone

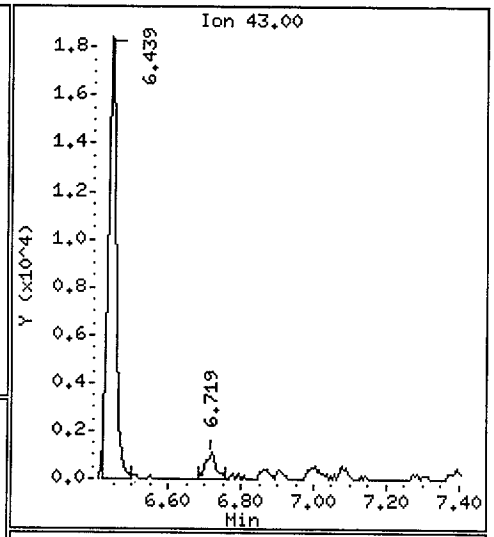
Concentration: 0.012047 ug

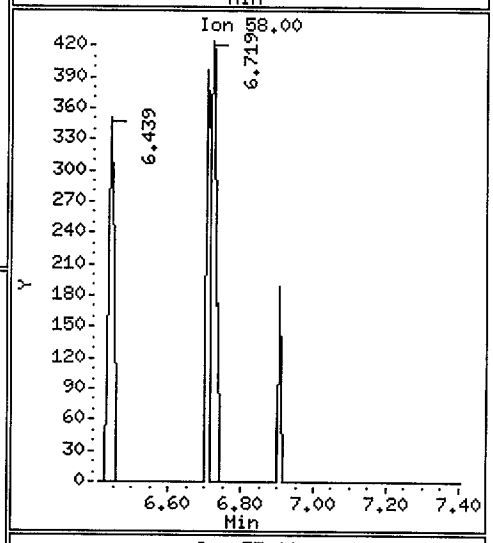


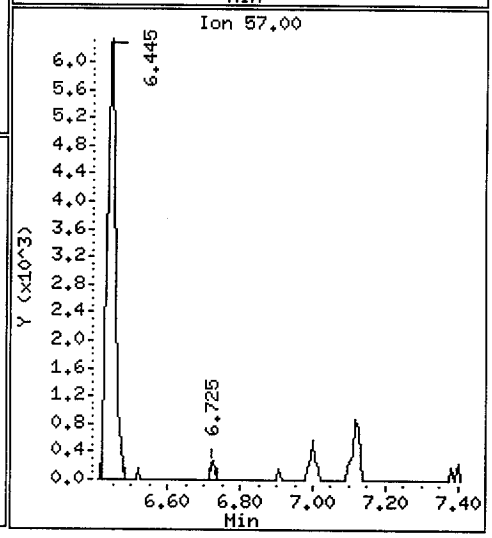












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

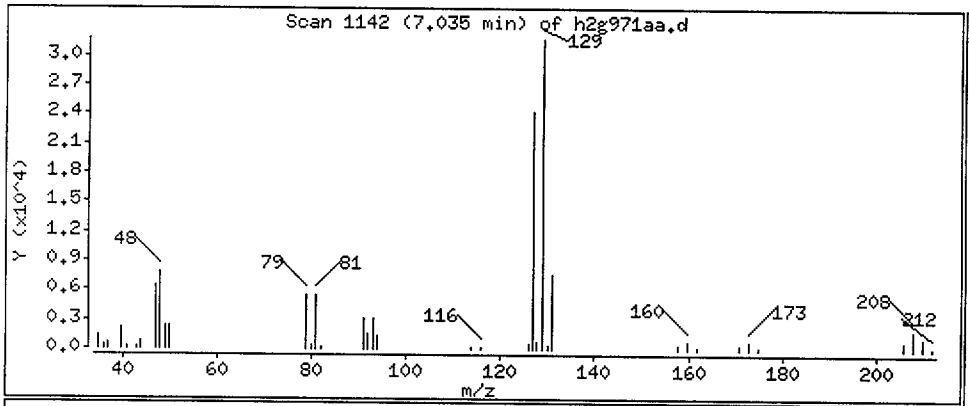
Operator: 22980

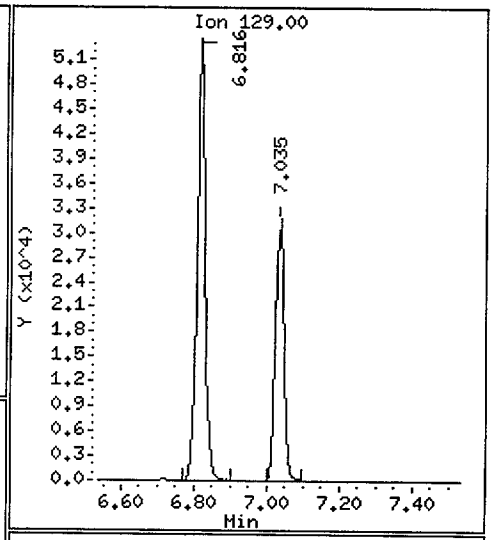
Column phase: J+W 624

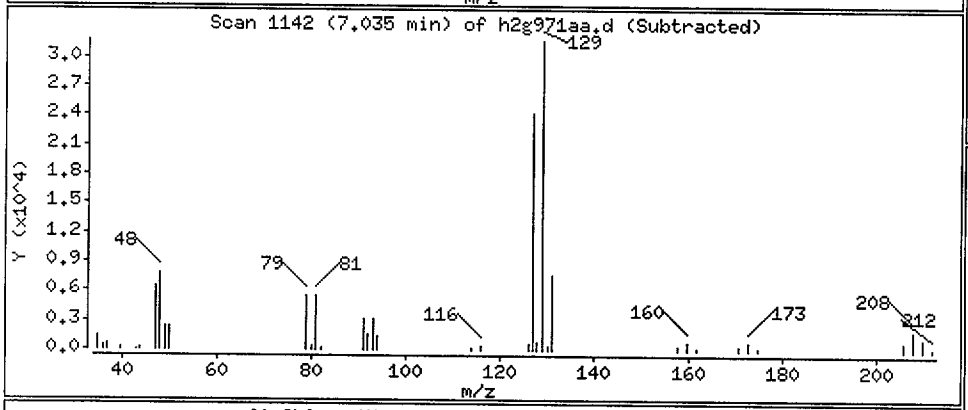
Column diameter: 0.18

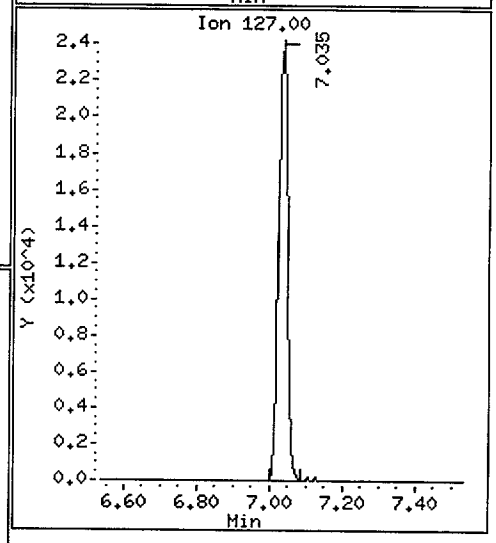
60 Chlorodibromomethane

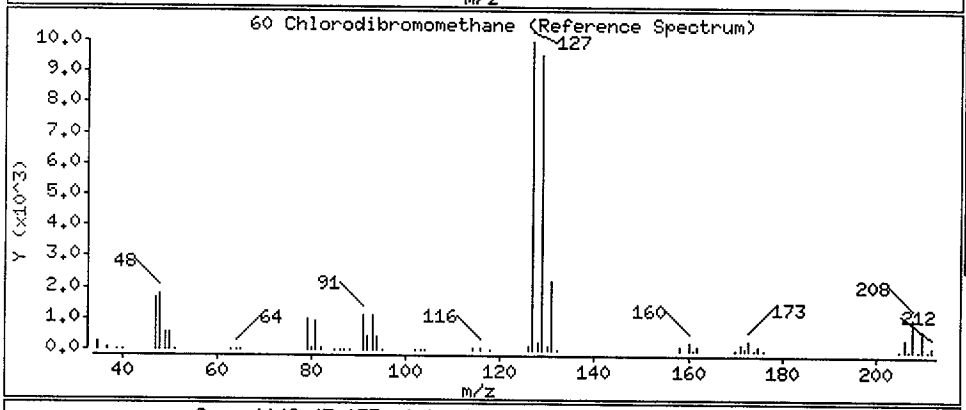
Concentration: 0.096201 ug

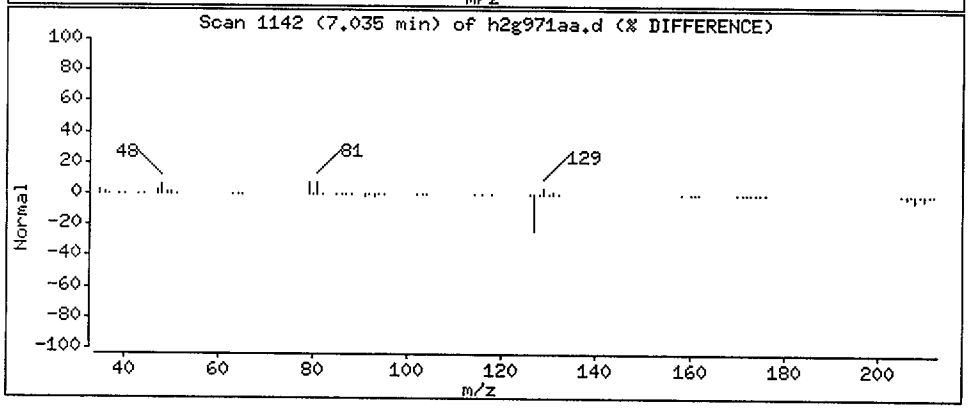












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

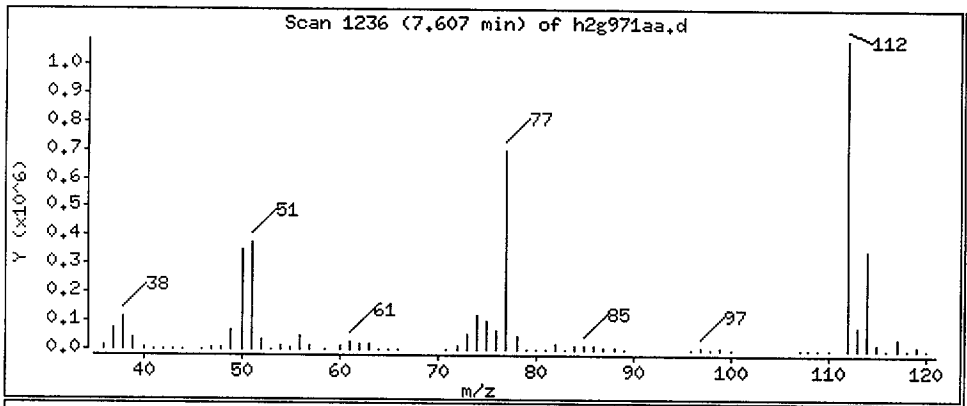
Operator: 22980

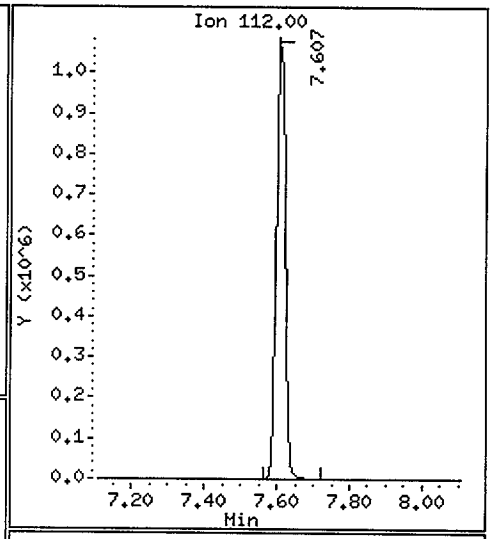
Column phase: J+W 624

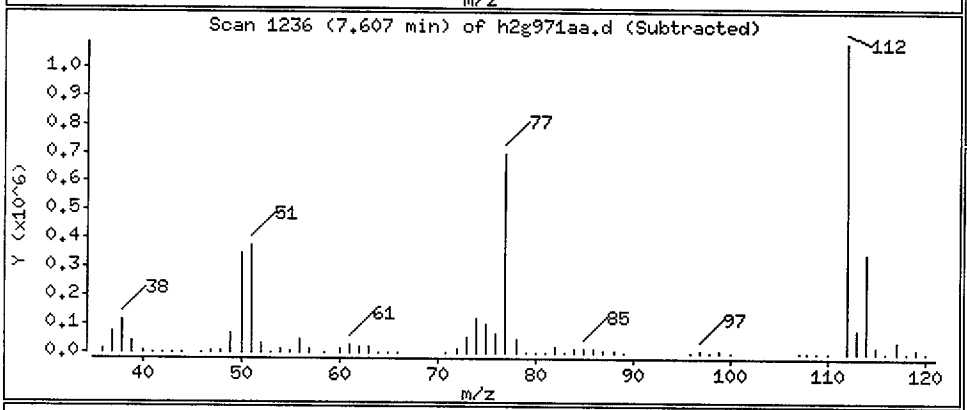
Column diameter: 0.18

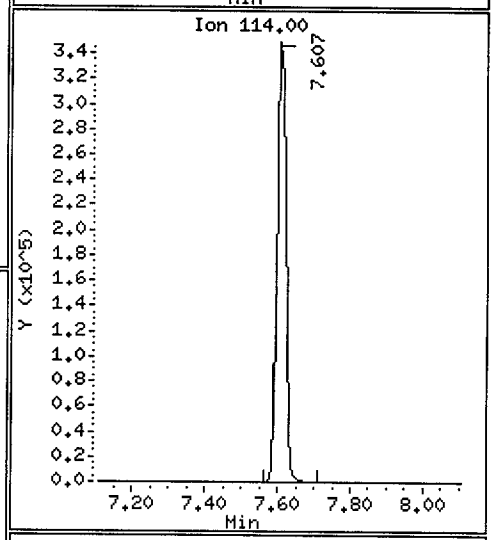
62 Chlorobenzene (spcc)

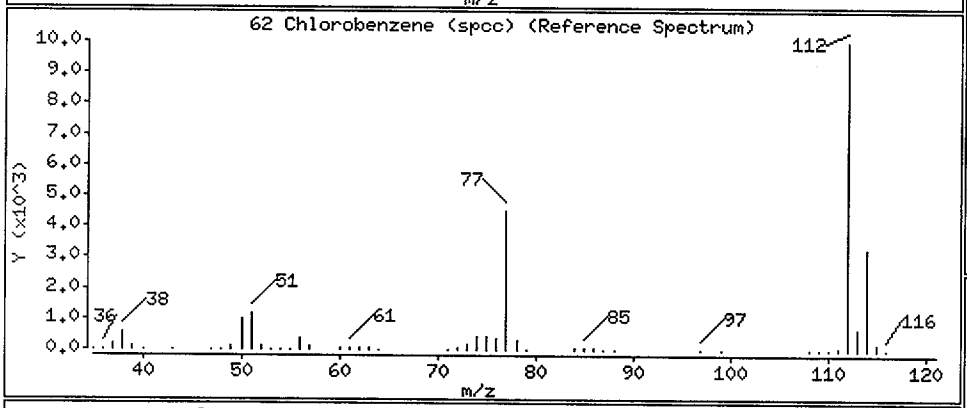
Concentration: 0.64795 ug

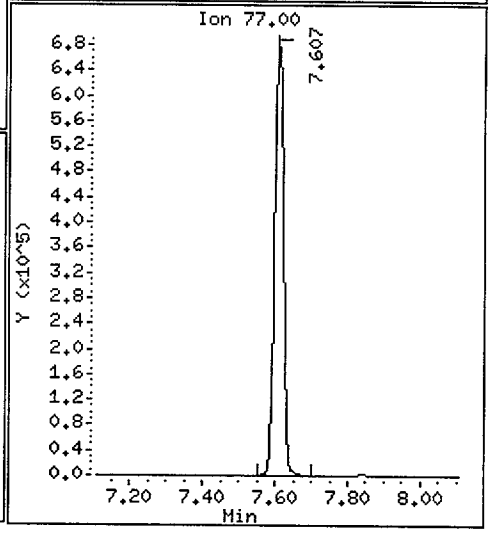


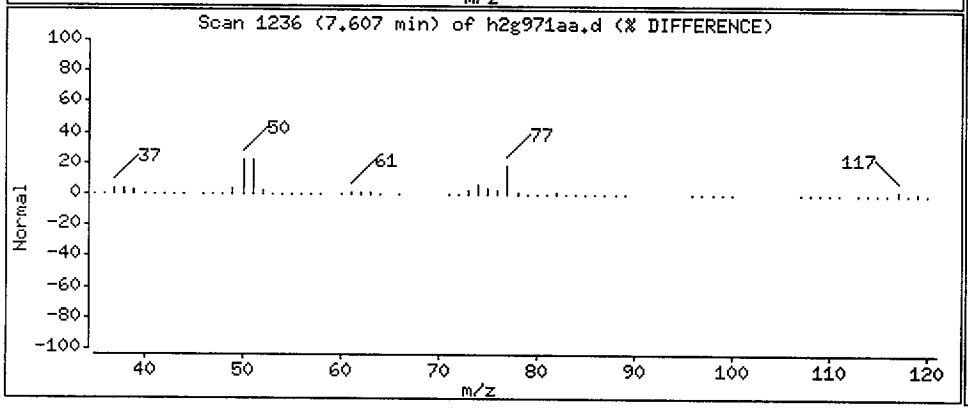












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

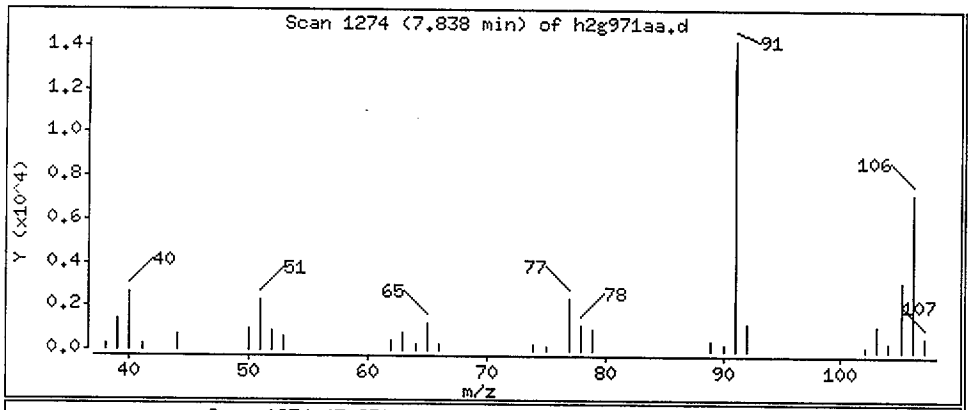
Operator: 22980

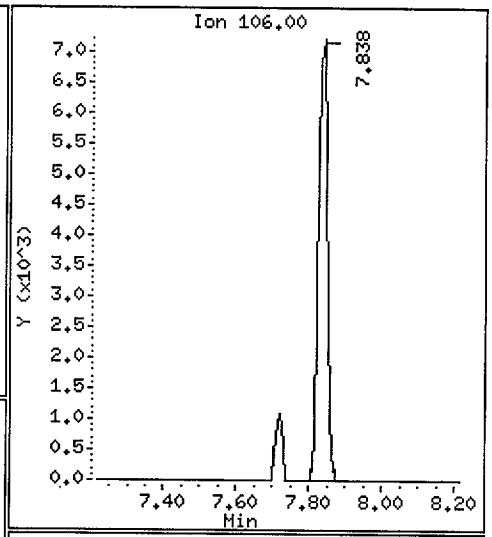
Column phase: J+W 624

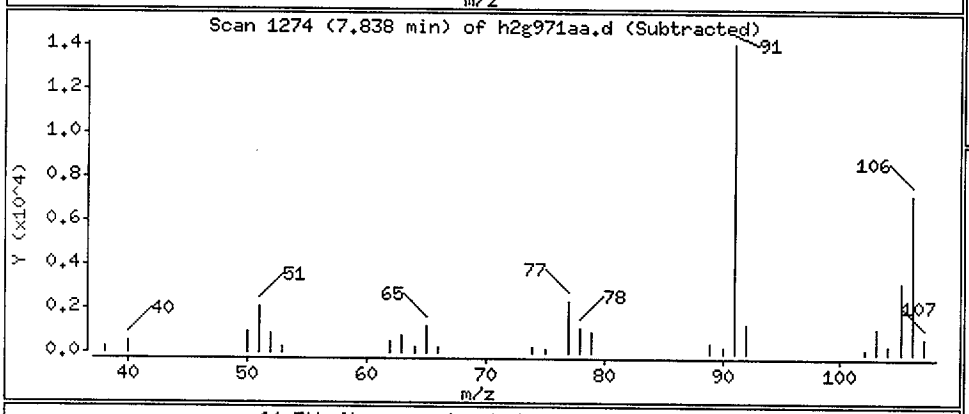
Column diameter: 0.18

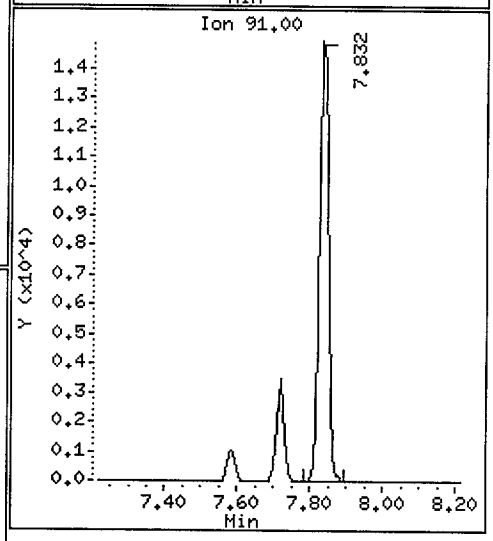
64 Ethylbenzene (ccc)

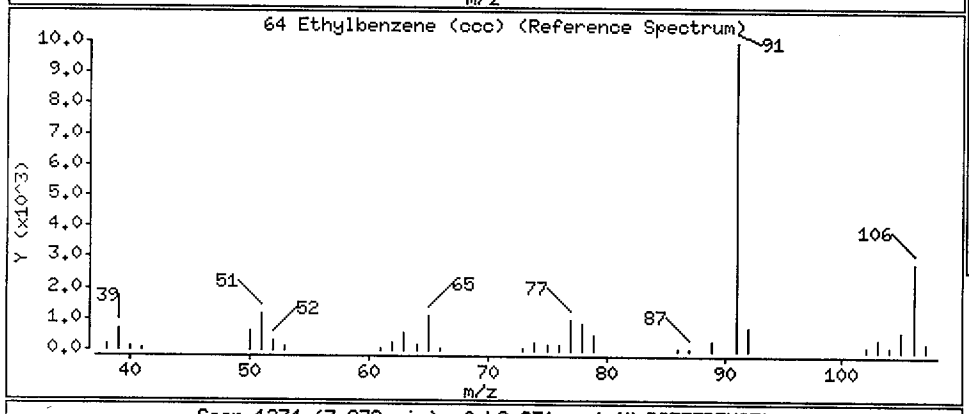
Concentration: 0.0063345 ug

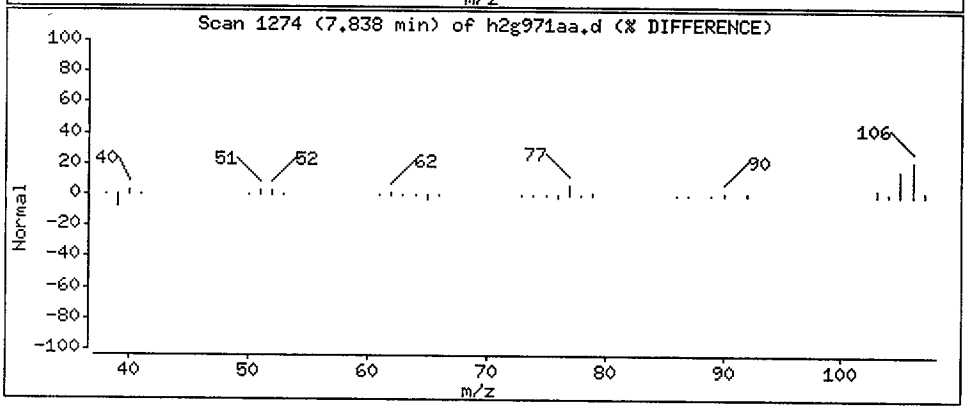












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

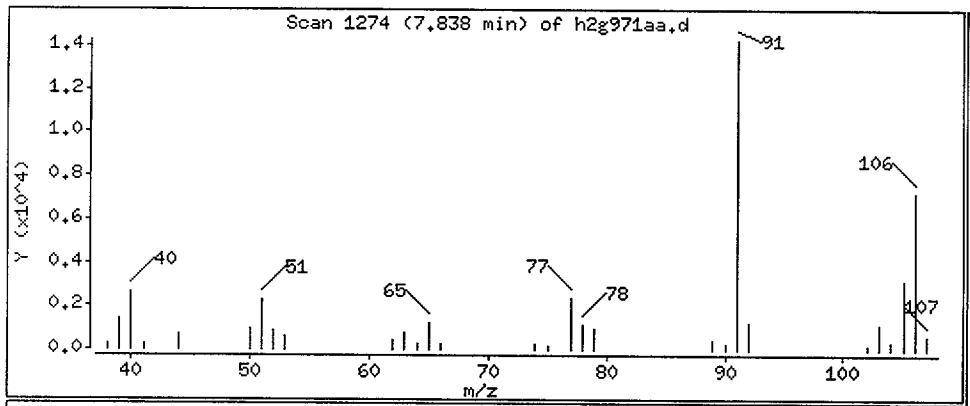
Operator: 22980

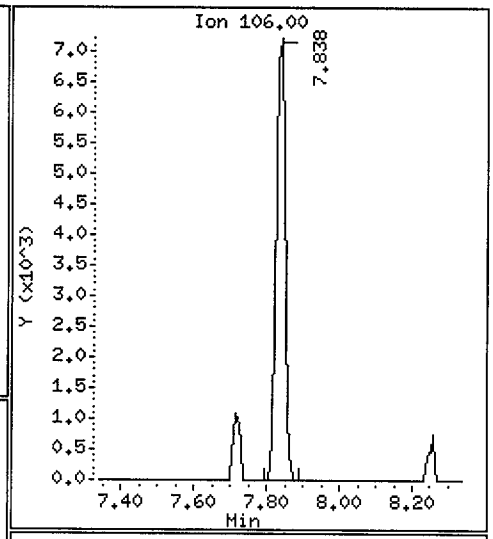
Column phase: J+W 624

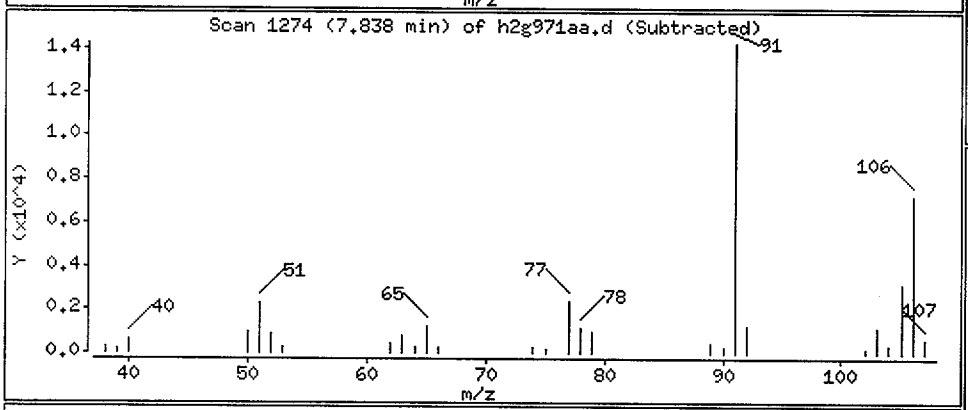
Column diameter: 0.18

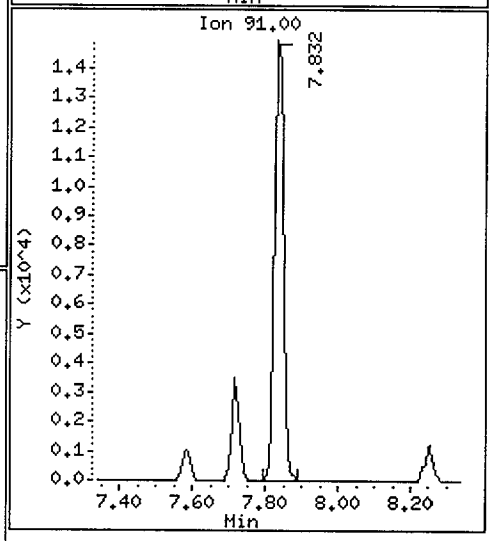
65 m&p-Xylene

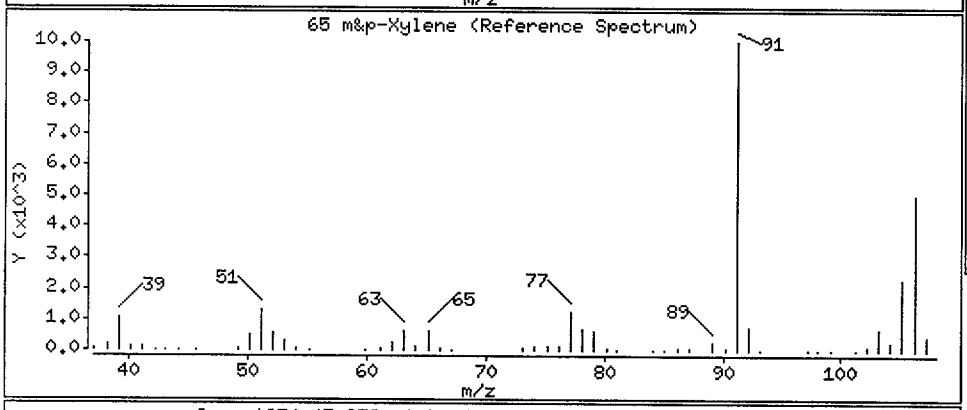
Concentration: 0.0054038 ug

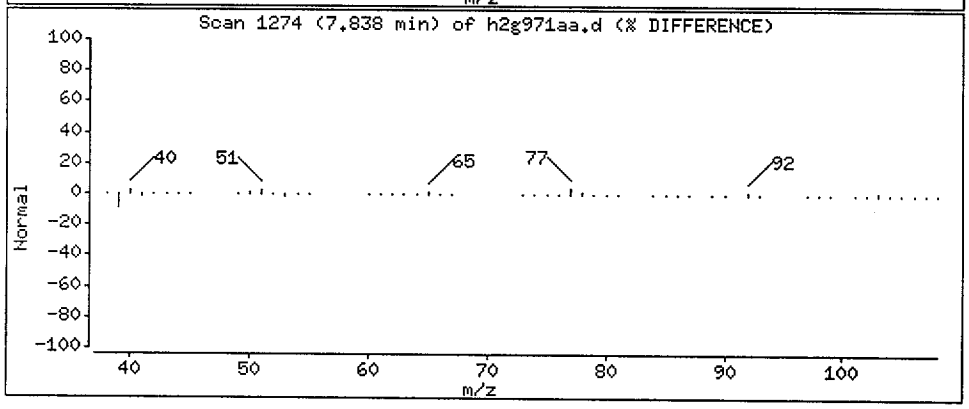












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

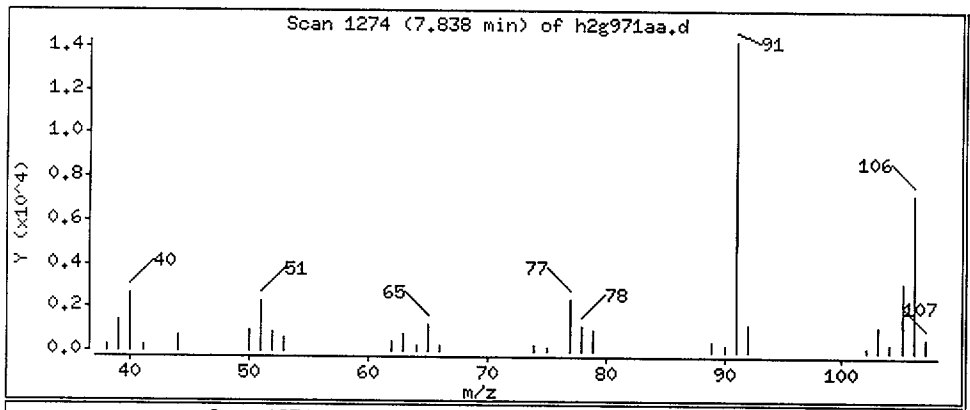
Operator: 22980

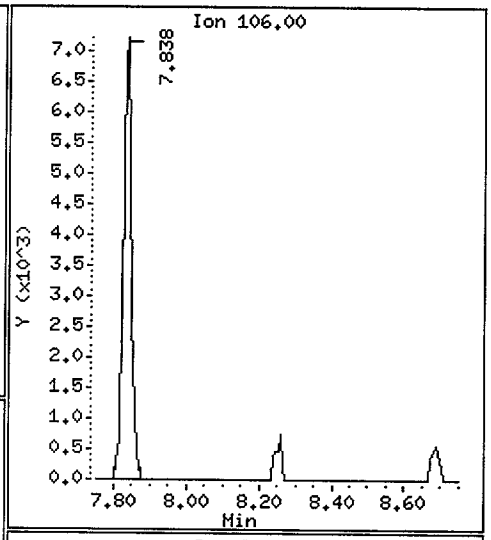
Column phase: J+W 624

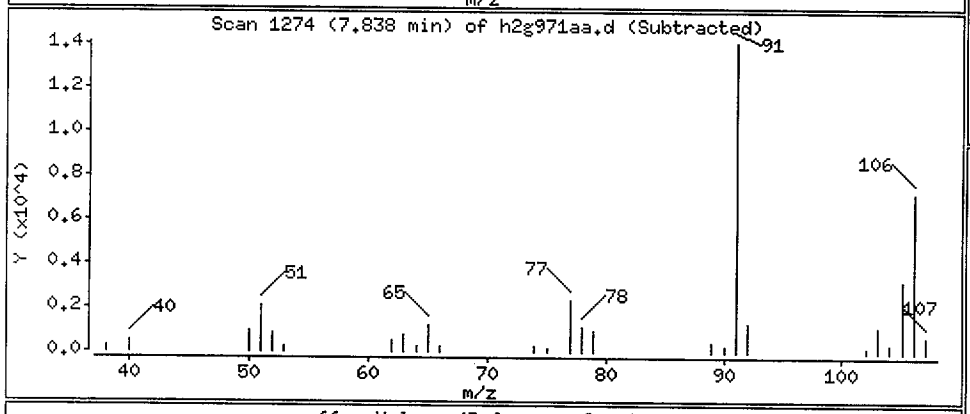
Column diameter: 0.18

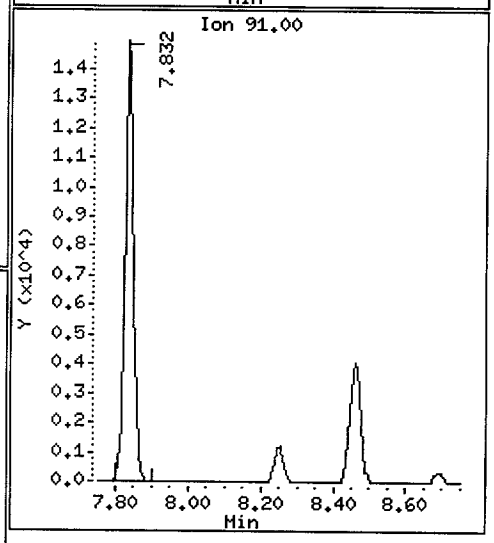
66 o-Xylene

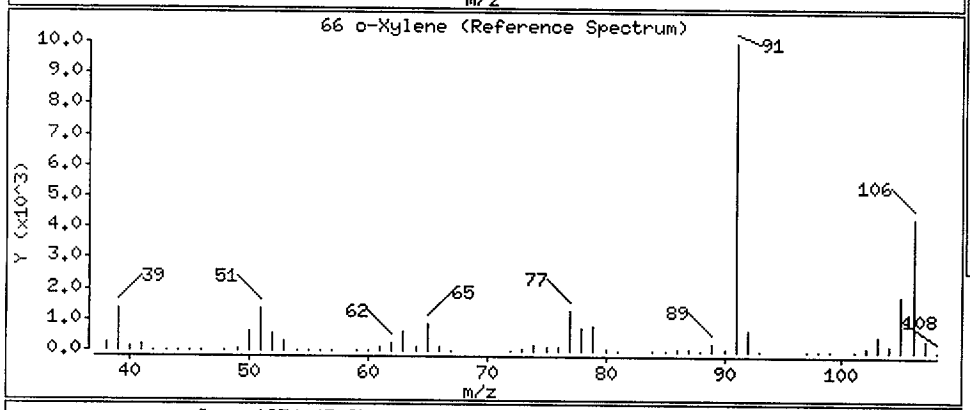
Concentration: 0.0063048 ug

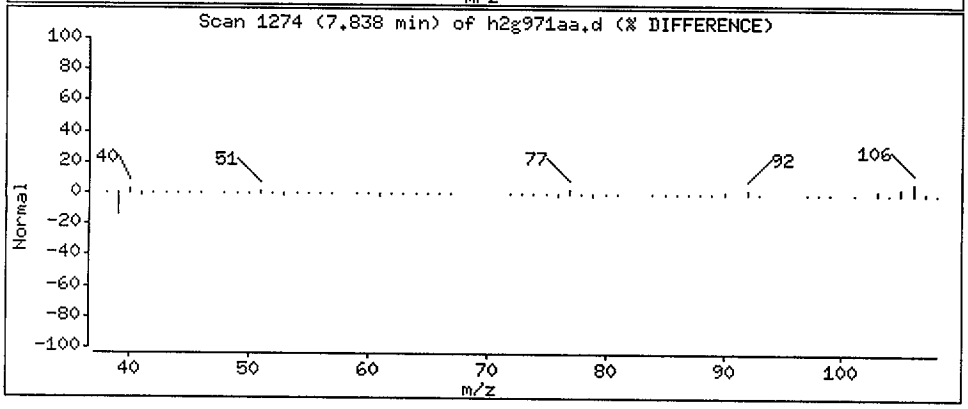












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

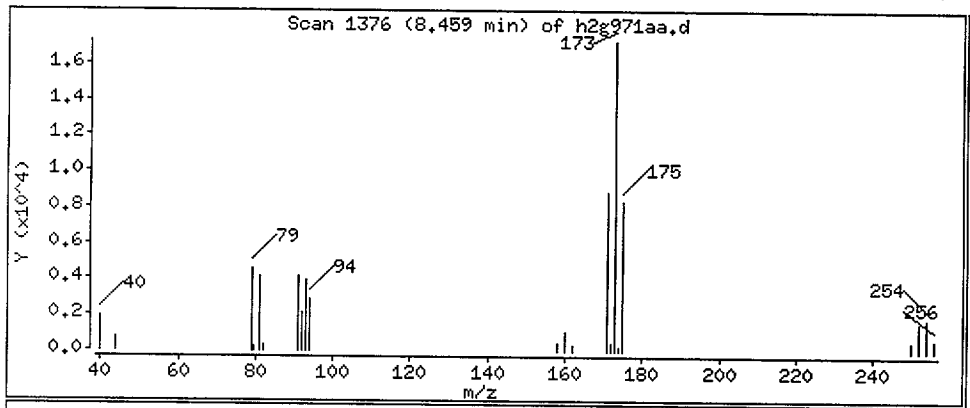
Operator: 22980

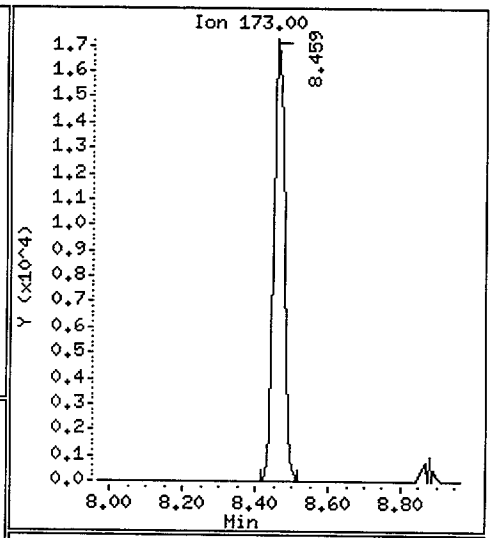
Column phase: J+W 624

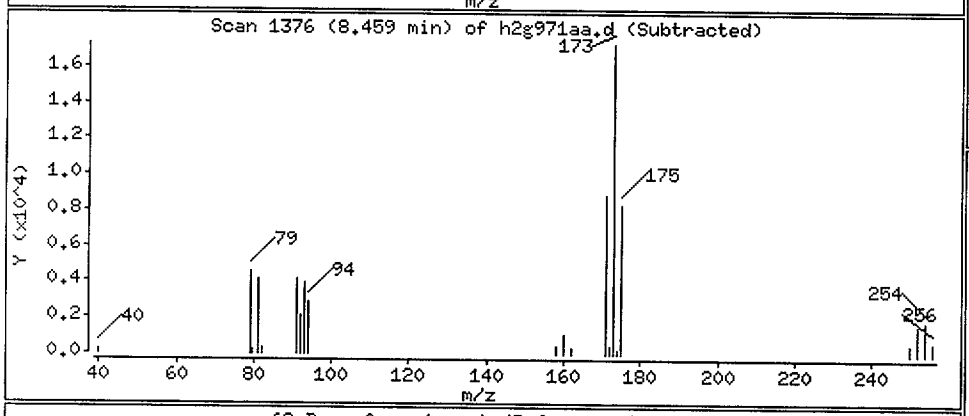
Column diameter: 0.18

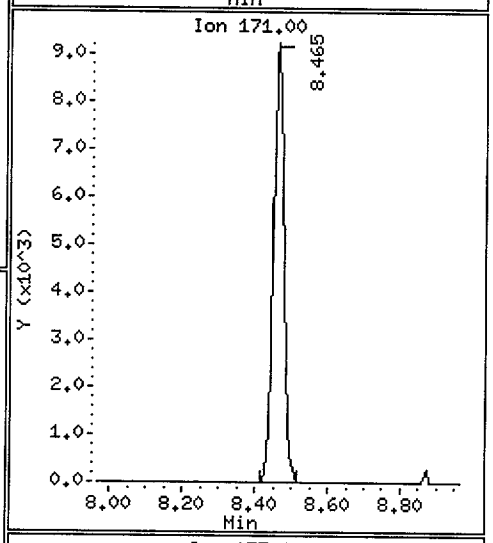
68 Bromoform (spcc)

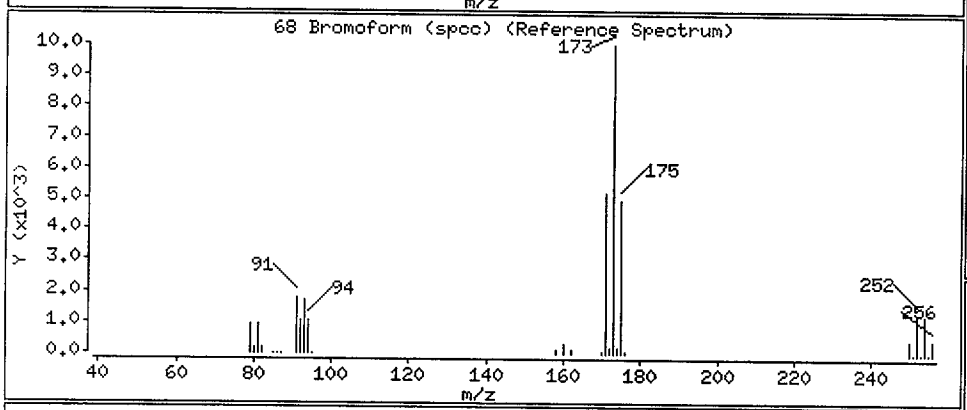
Concentration: 0.14045 ug

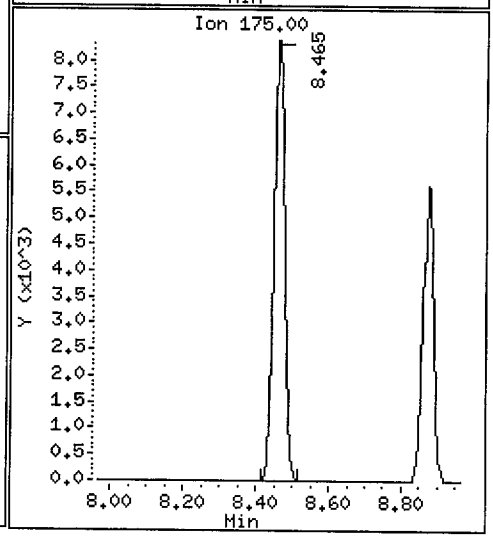


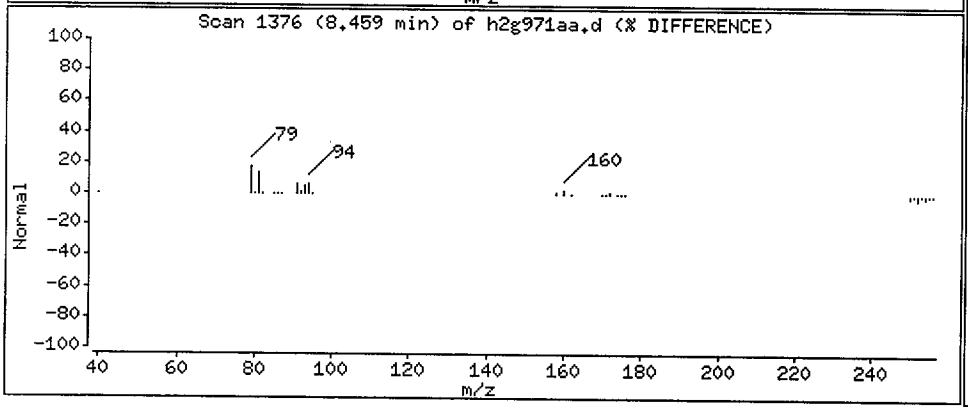












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

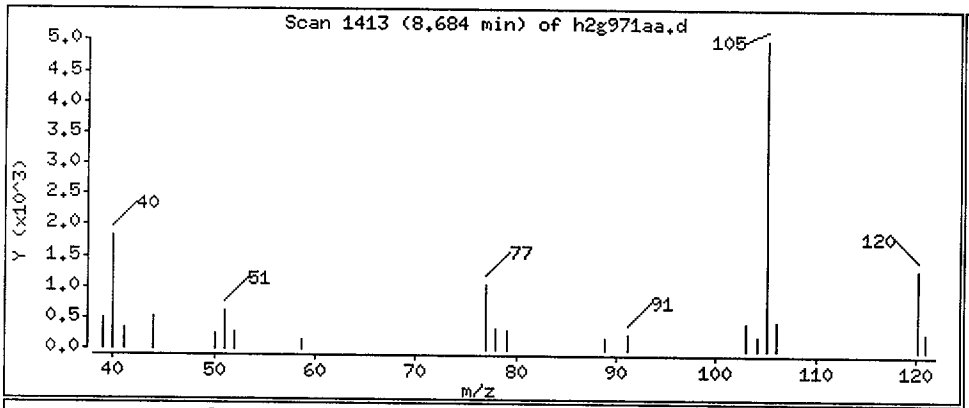
Operator: 22980

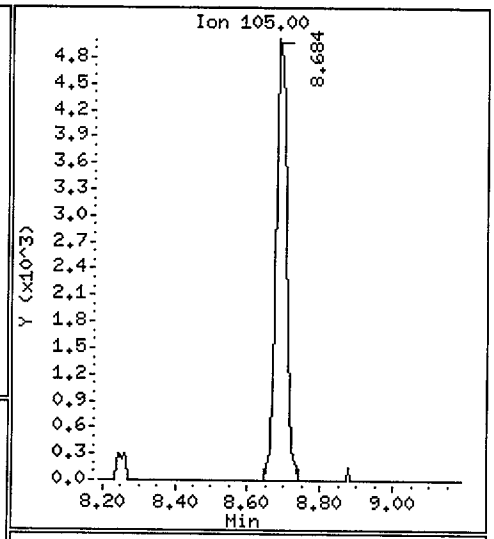
Column phase: J+W 624

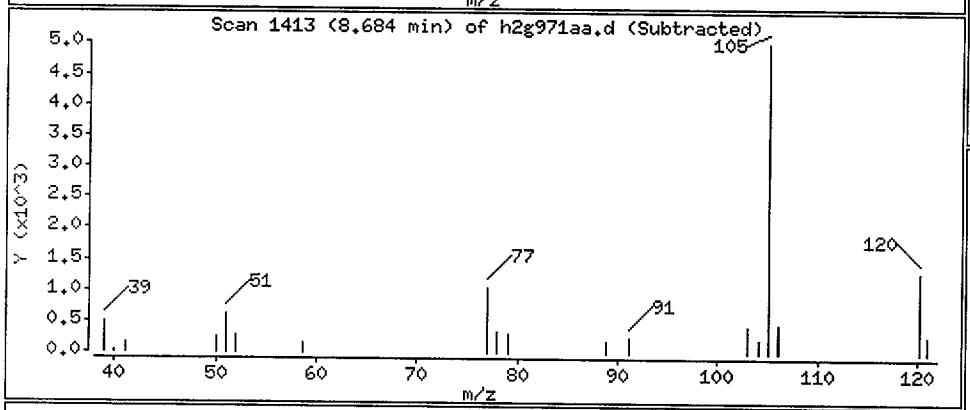
Column diameter: 0.18

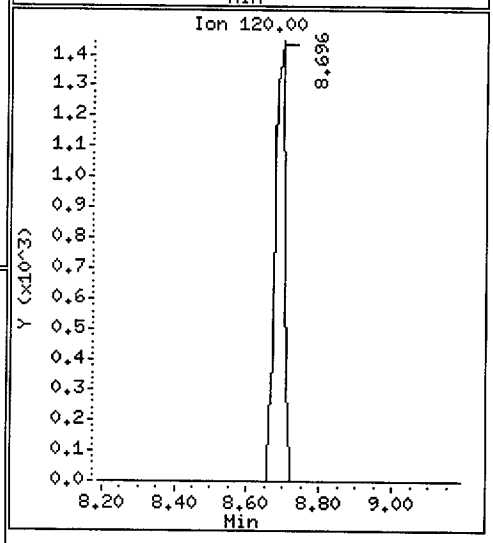
69 Isopropylbenzene

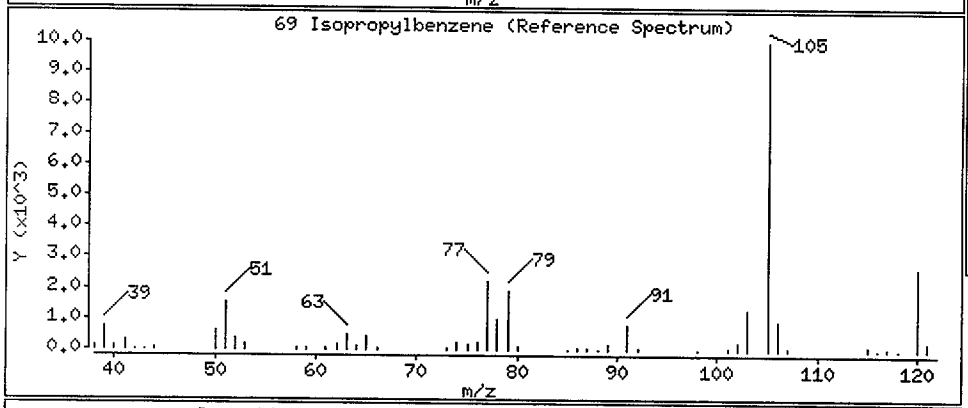
Concentration: 0.0016707 ug

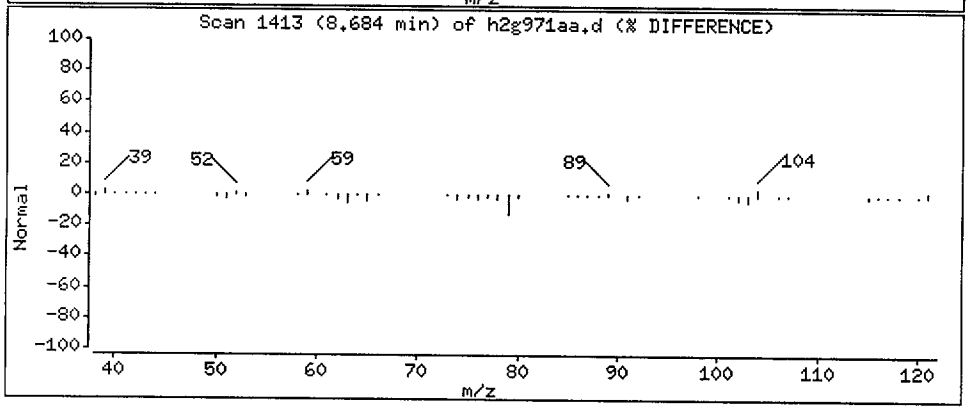












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

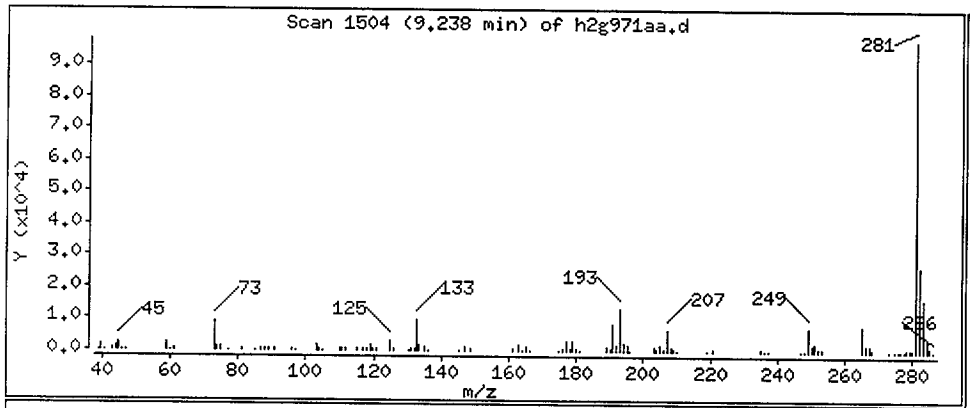
Operator: 22980

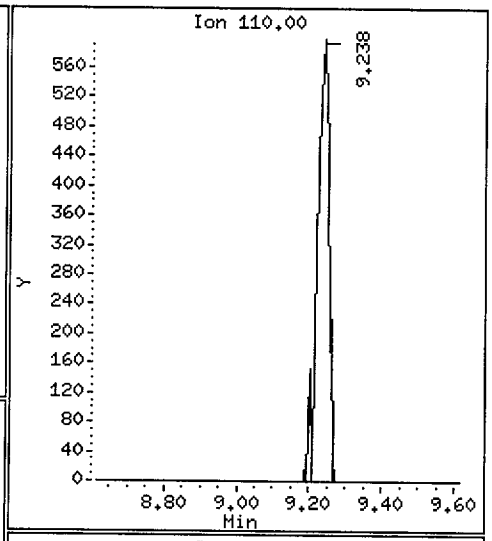
Column phase: J+W 624

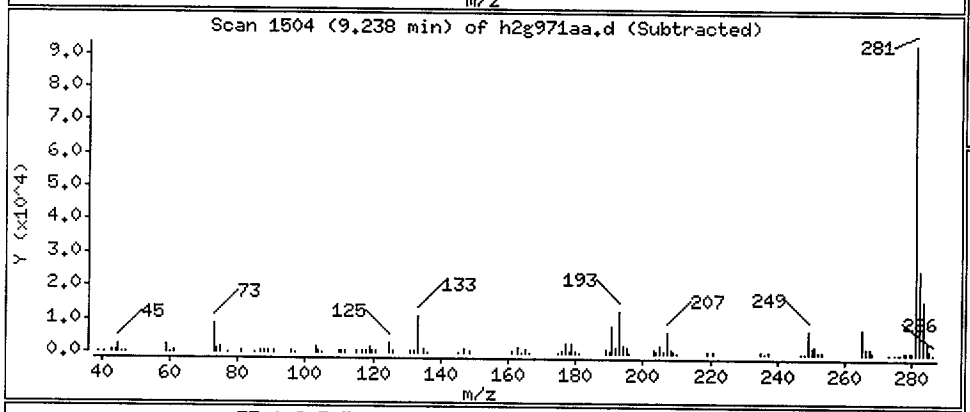
Column diameter: 0.18

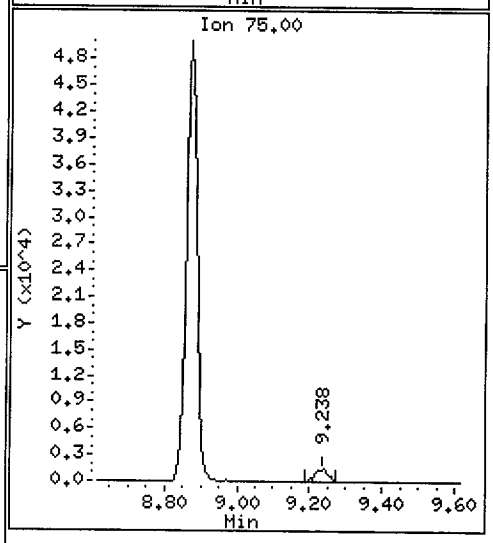
73 1,2,3-Trichloropropane

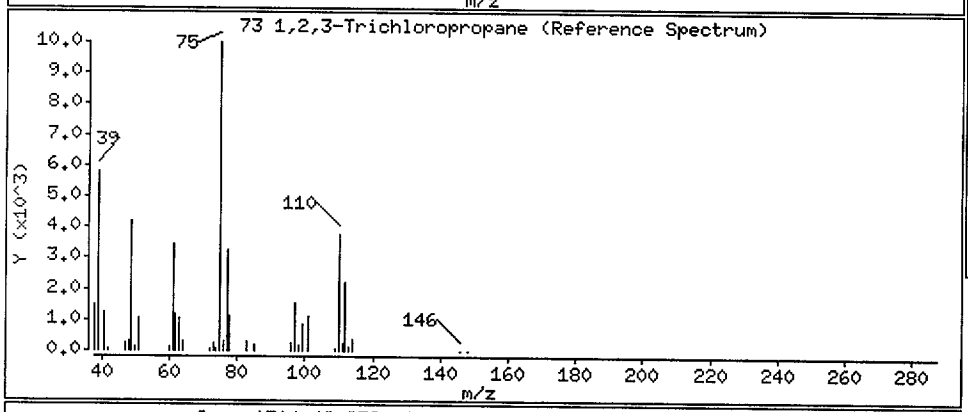
Concentration: 0.014673 ug

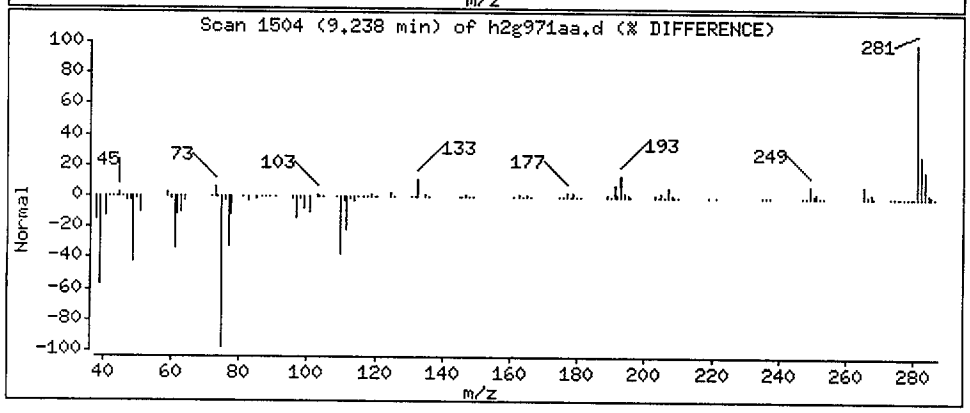












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Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

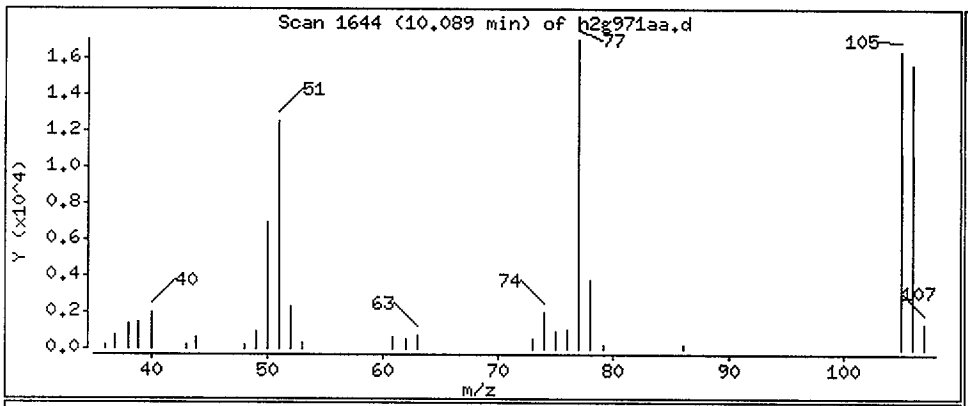
Operator: 22980

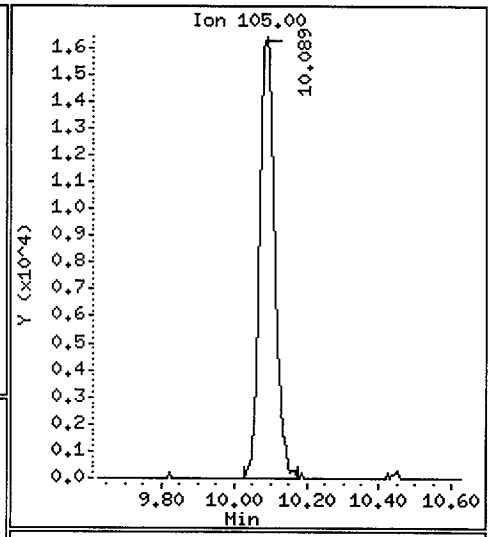
Column phase: J+W 624

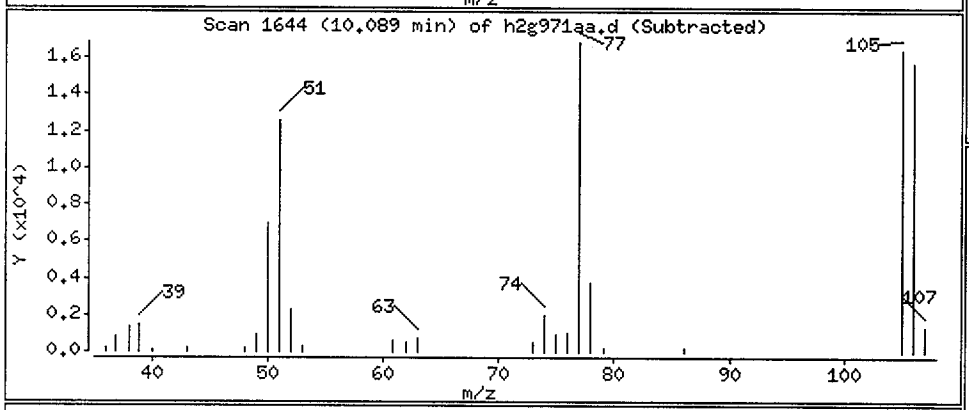
Column diameter: 0.18

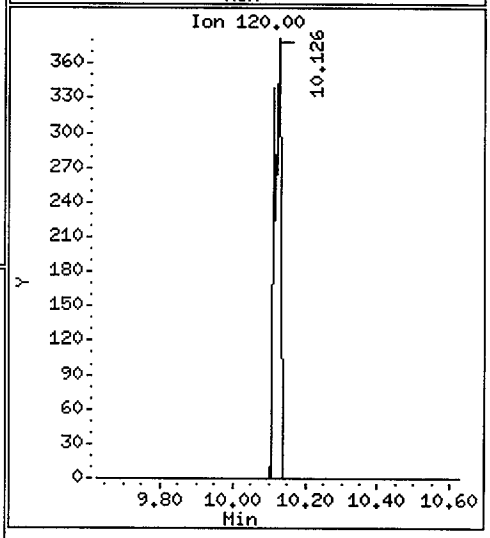
80 1,2,4-Trimethylbenzene

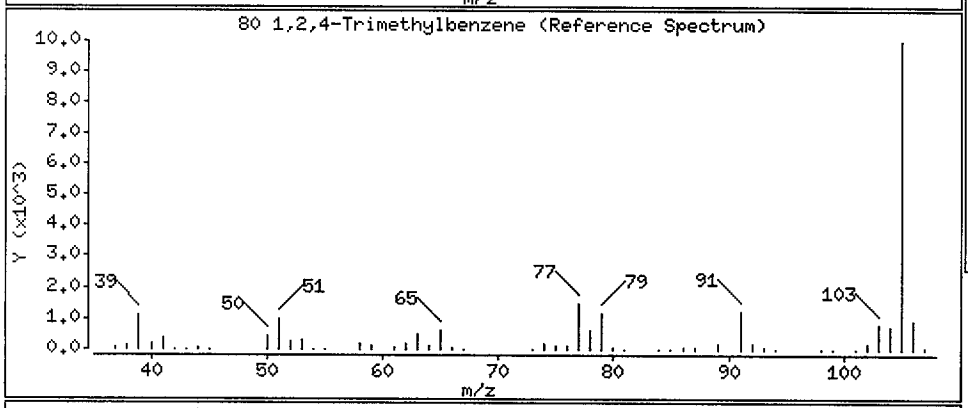
Concentration: 0.015476 ug

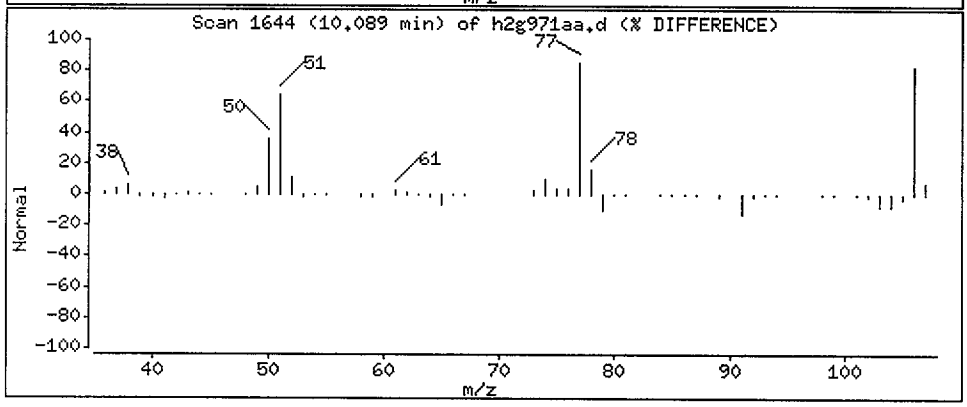












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

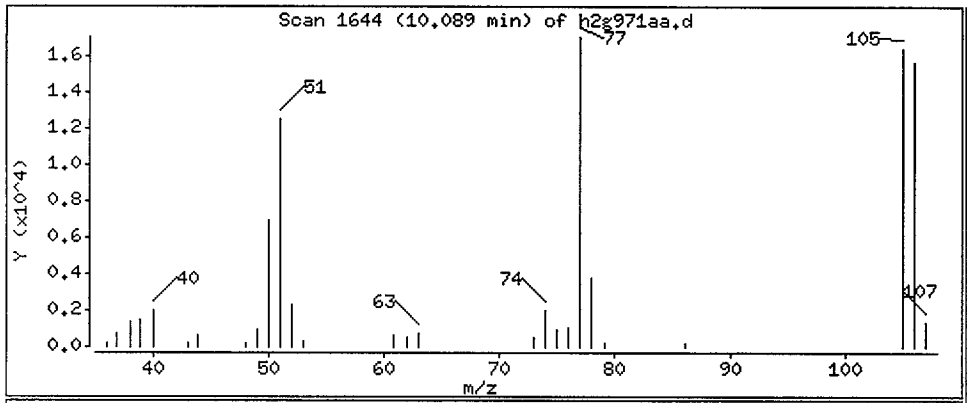
Operator: 22980

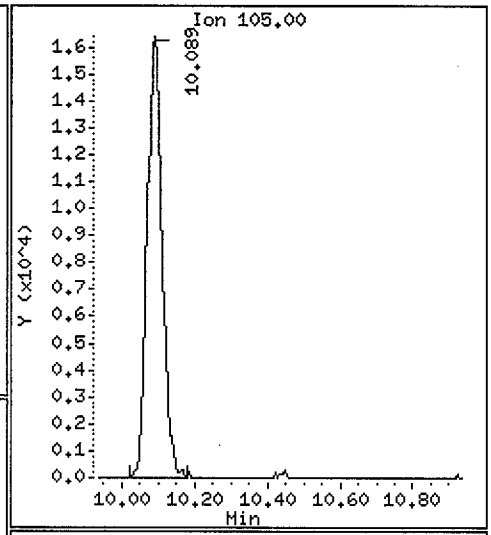
Column phase: J+W 624

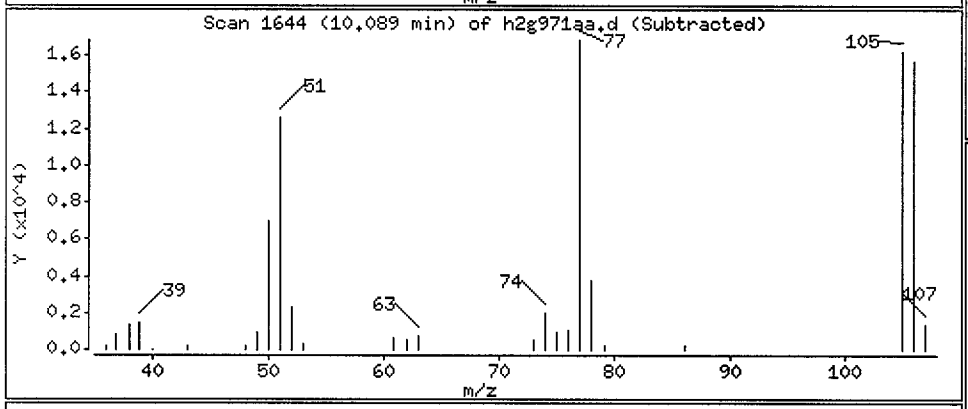
Column diameter: 0.18

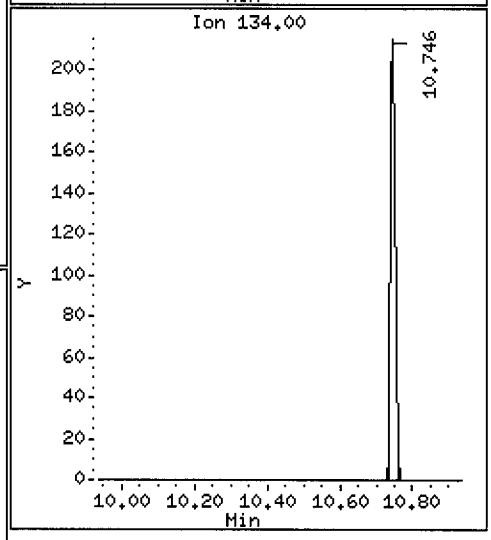
81 sec-Butylbenzene

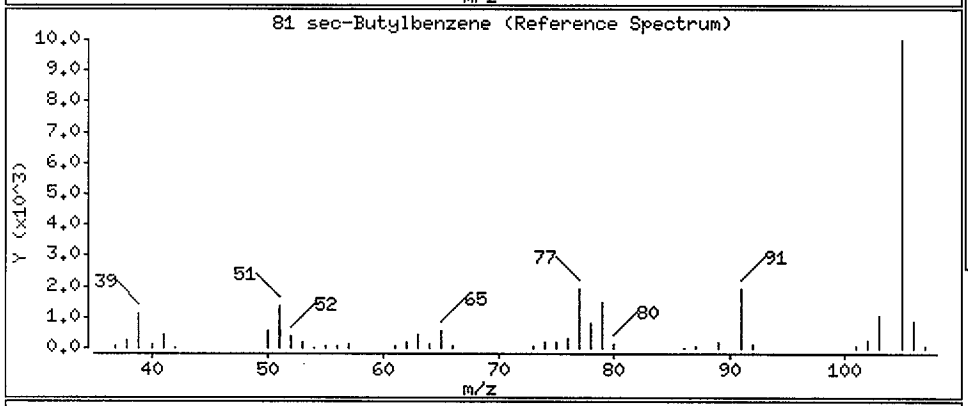
Concentration: 0.0087605 ug

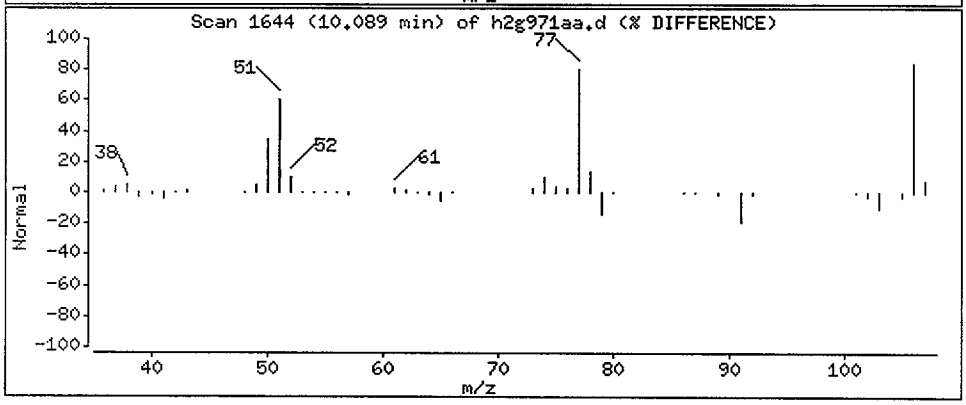












Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

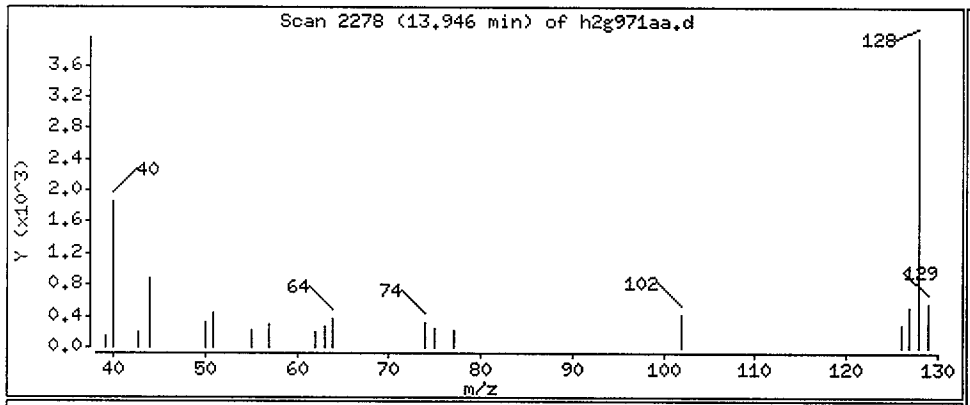
Operator: 22980

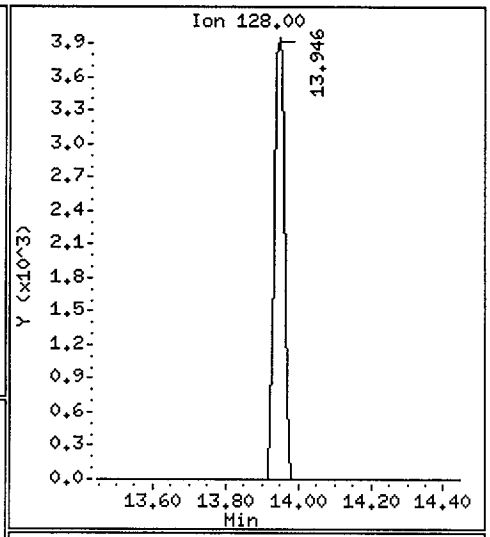
Column phase: J+W 624

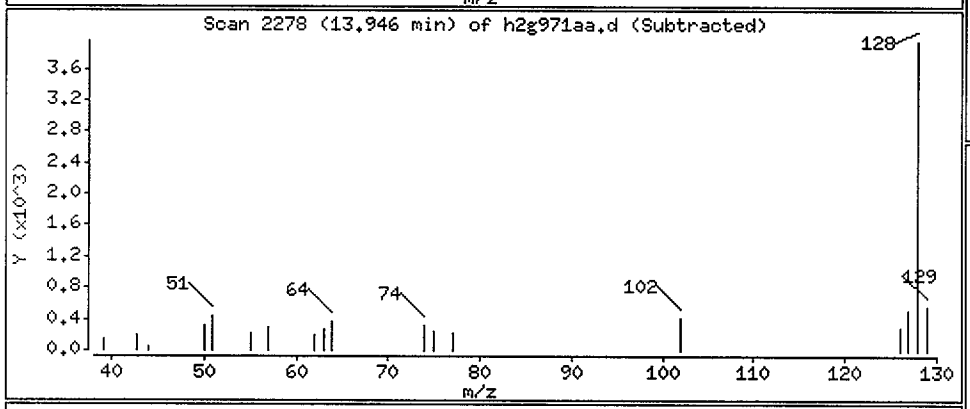
Column diameter: 0.18

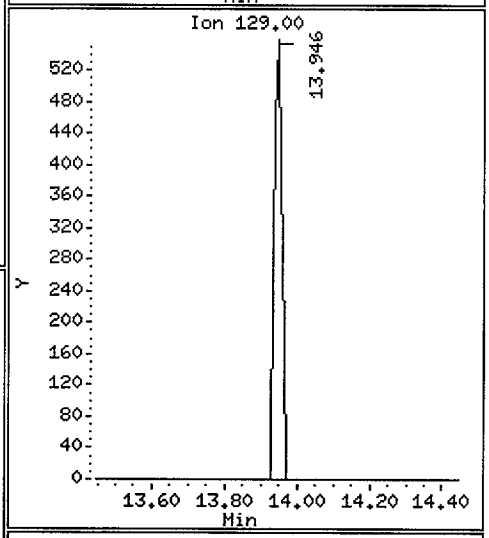
90 Napthalene

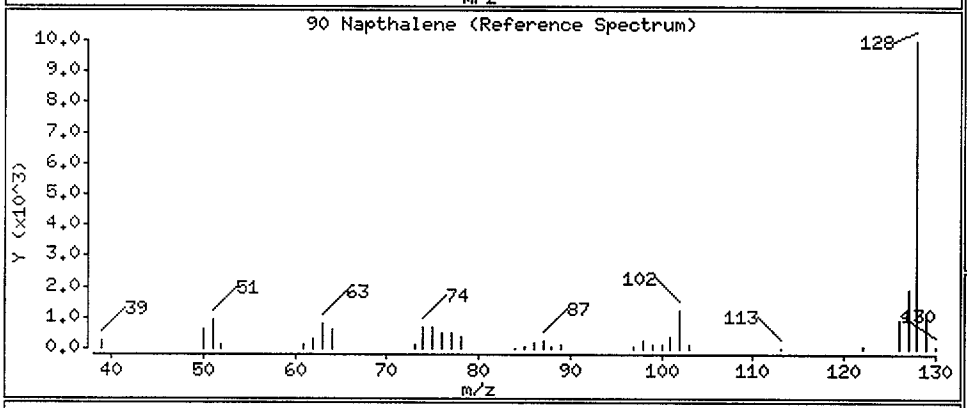
Concentration: 0.018425 ug

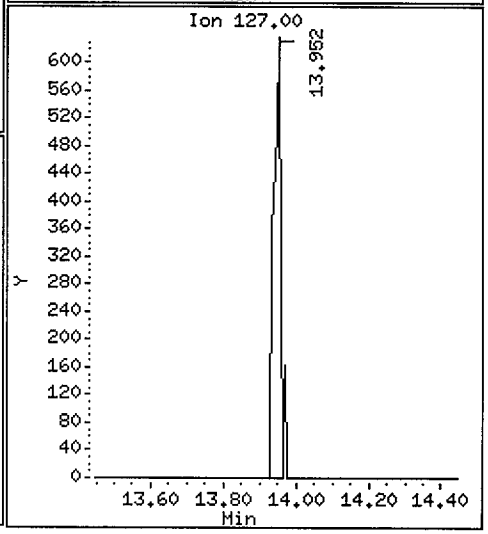


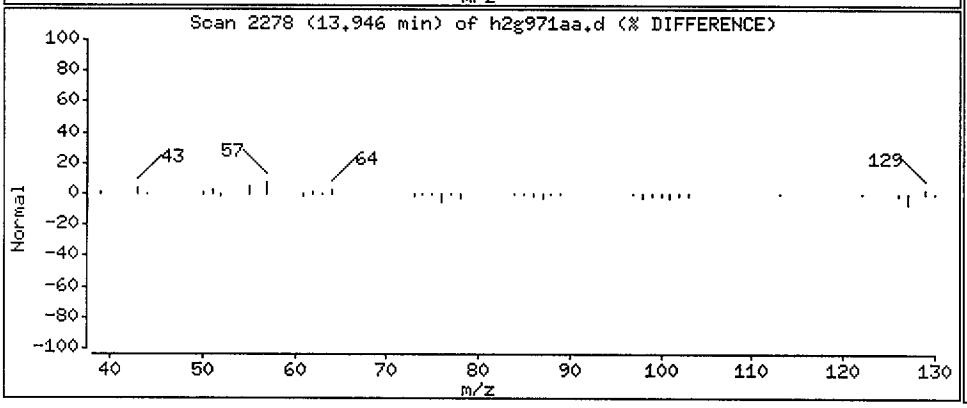












Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d
Report Date: 18-Apr-2006 14:54

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g971aa.d
Lab Smp Id: H2G971AA Client Smp ID: G-3010-R2-VOST PAIR
Inj Date : 07-APR-2006 13:51
Operator : 22980 Inst ID: mx.i
Smp Info : H2G971AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.851	1580977	10.000
* 2 Chlorobenzene-d5	7.583	4040686	10.000
* 3 1,4 Dichlorobenzene-d4	10.746	560368	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
1.019	762016	4.81990567	0.12050	5	NIST02.1	77	1
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.719	468881	1.16039950	0.029010	91	NIST02.1	71175	2
7H-Dibenzo[b,g]carbazole, 7-methyl-				CAS #: 3557-49-1			
9.238	277189	4.94655298	0.12366	64	NIST02.1	106923	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d
Report Date: 18-Apr-2006 14:54

RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzaldehyde				CAS #: 100-52-7			
10.089	88550	1.58021158	0.039505	95	NIST02.l	4941	3

Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

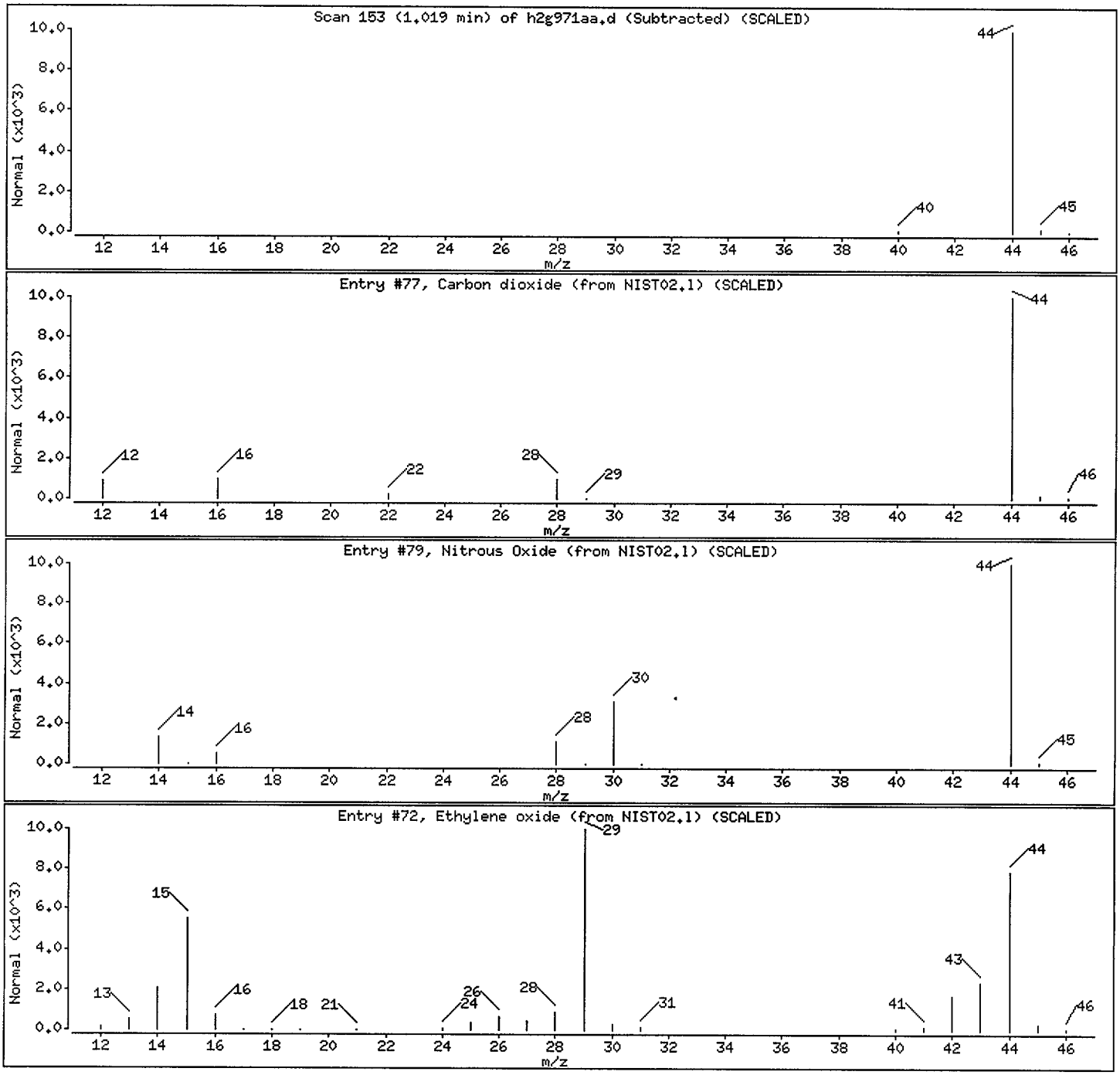
Sample Info: H2G971AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.1	77	5	CO2	44
Nitrous Oxide	10024-97-2	NIST02.1	79	3	N2O	44
Ethylene oxide	75-21-8	NIST02.1	72	2	C2H4O	44



Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

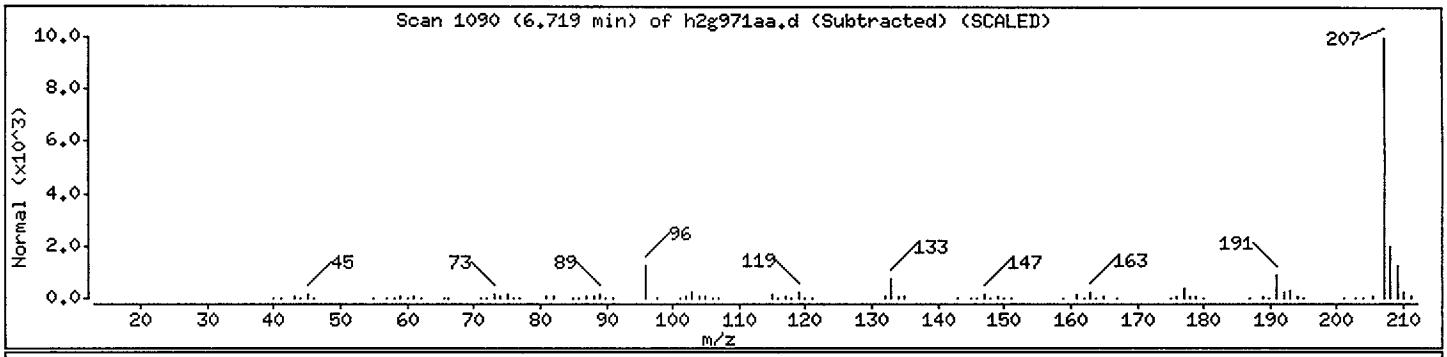
Sample Info: H2G971AA,1,0,,,

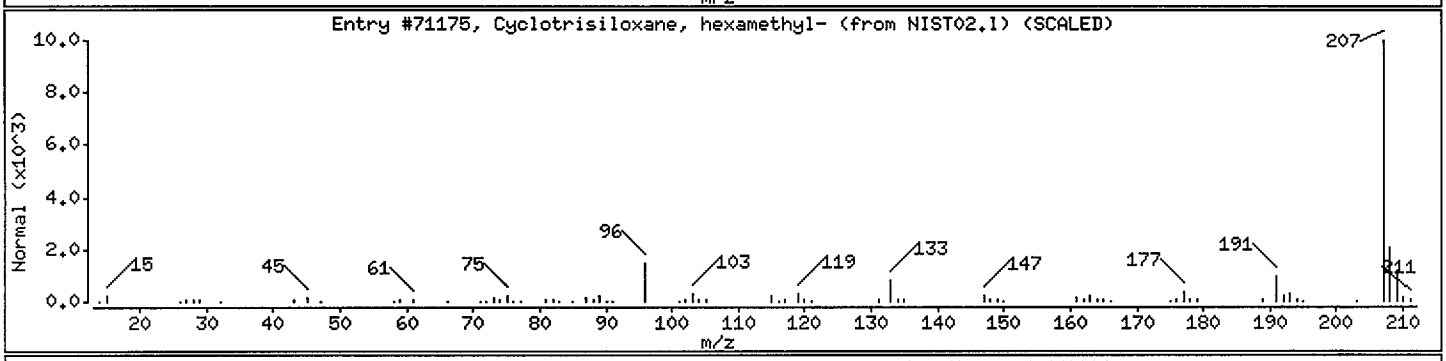
Operator: 22980

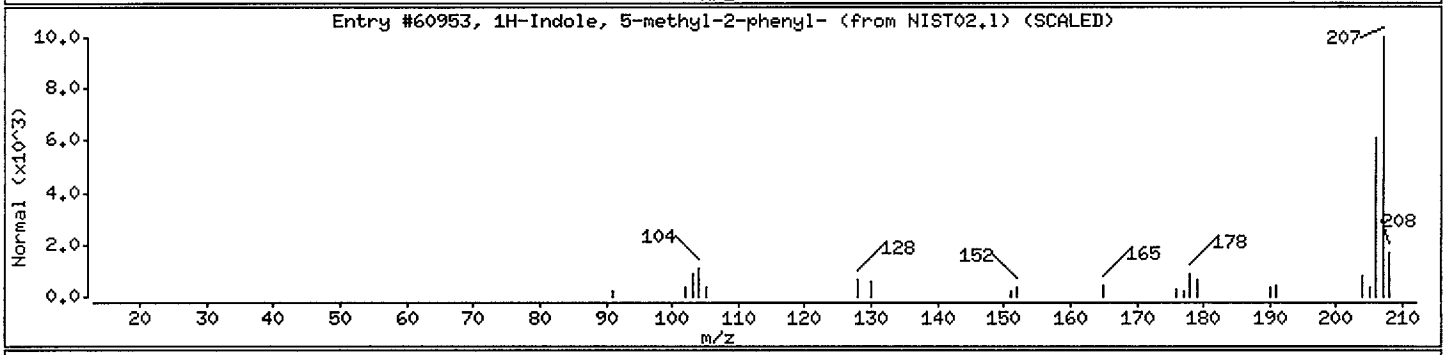
Column phase: J+W 624

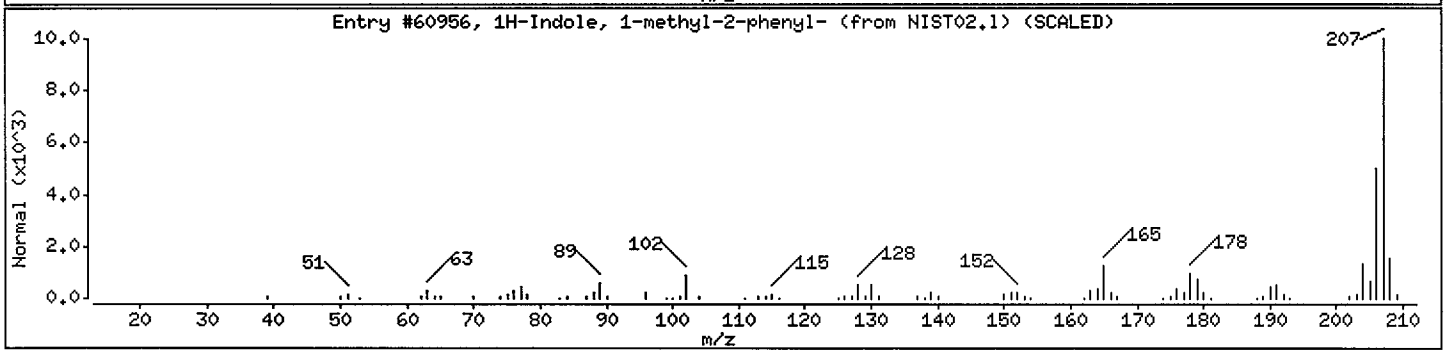
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.1	71175	91	C6H18O3Si3	222
1H-Indole, 5-methyl-2-phenyl-	13228-36-9	NIST02.1	60953	38	C15H13N	207
1H-Indole, 1-methyl-2-phenyl-	3558-24-5	NIST02.1	60956	38	C15H13N	207









Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

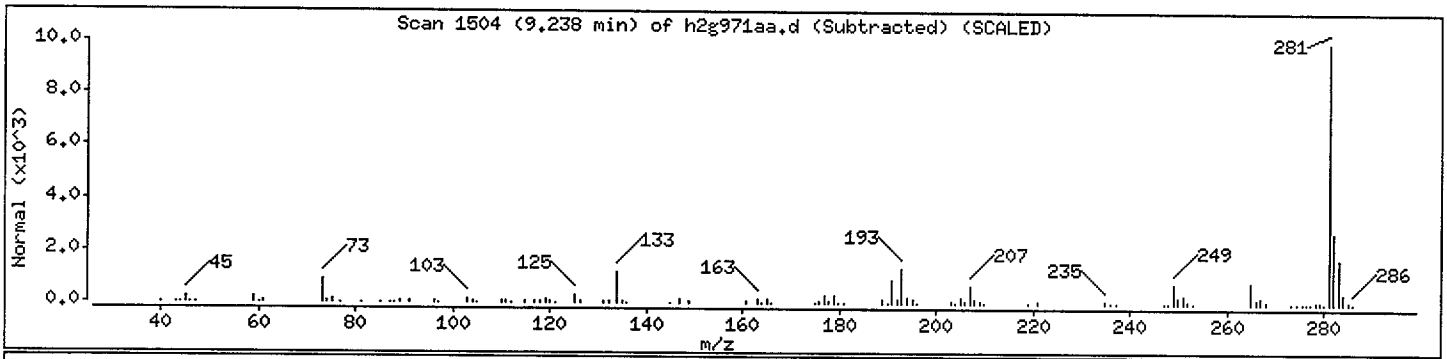
Sample Info: H2G971AA,1,0,,,

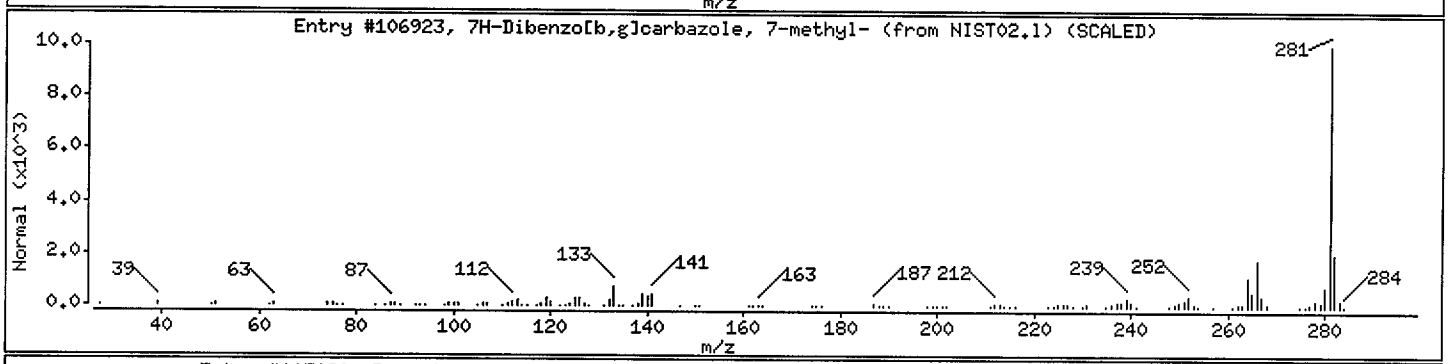
Operator: 22980

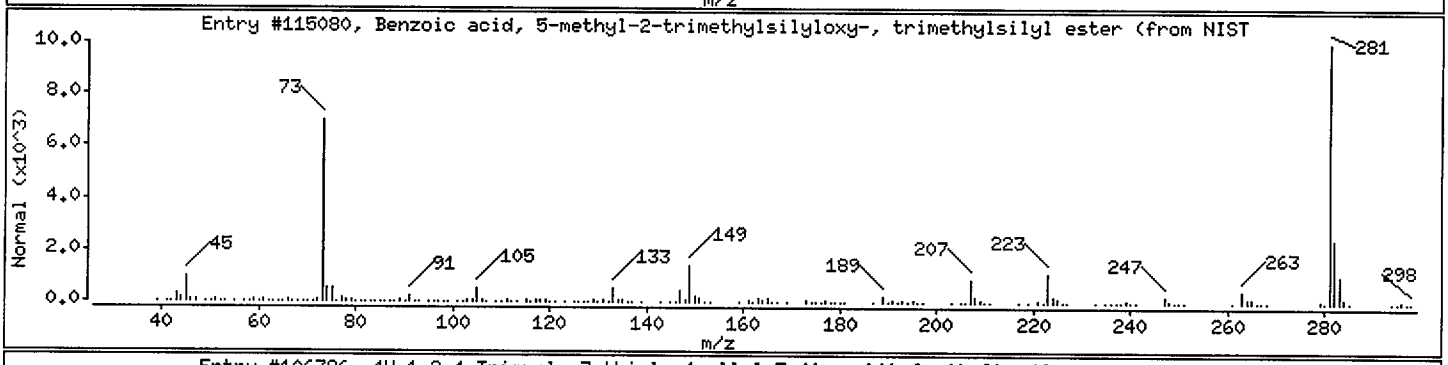
Column phase: J+W 624

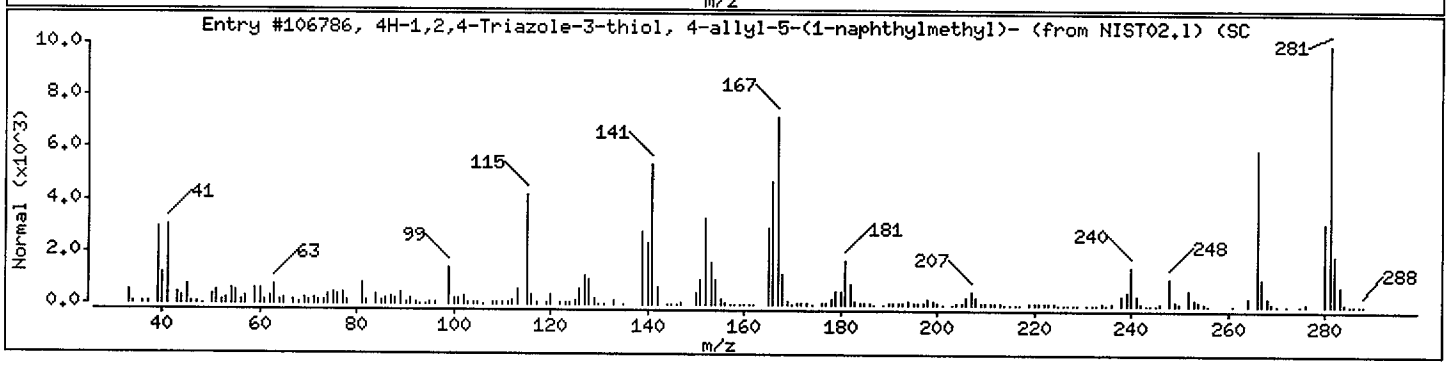
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	64	C21H15N	281
Benzoic acid, 5-methyl-2-trimethylsilylo	1000153-59-4	NIST02.1	115080	59	C14H2403Si2	296
4H-1,2,4-Triazole-3-thiol, 4-allyl-5-(1-	31803-13-1	NIST02.1	106786	50	C16H15N3S	281









Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-VOST PAIR

Instrument: mx.i

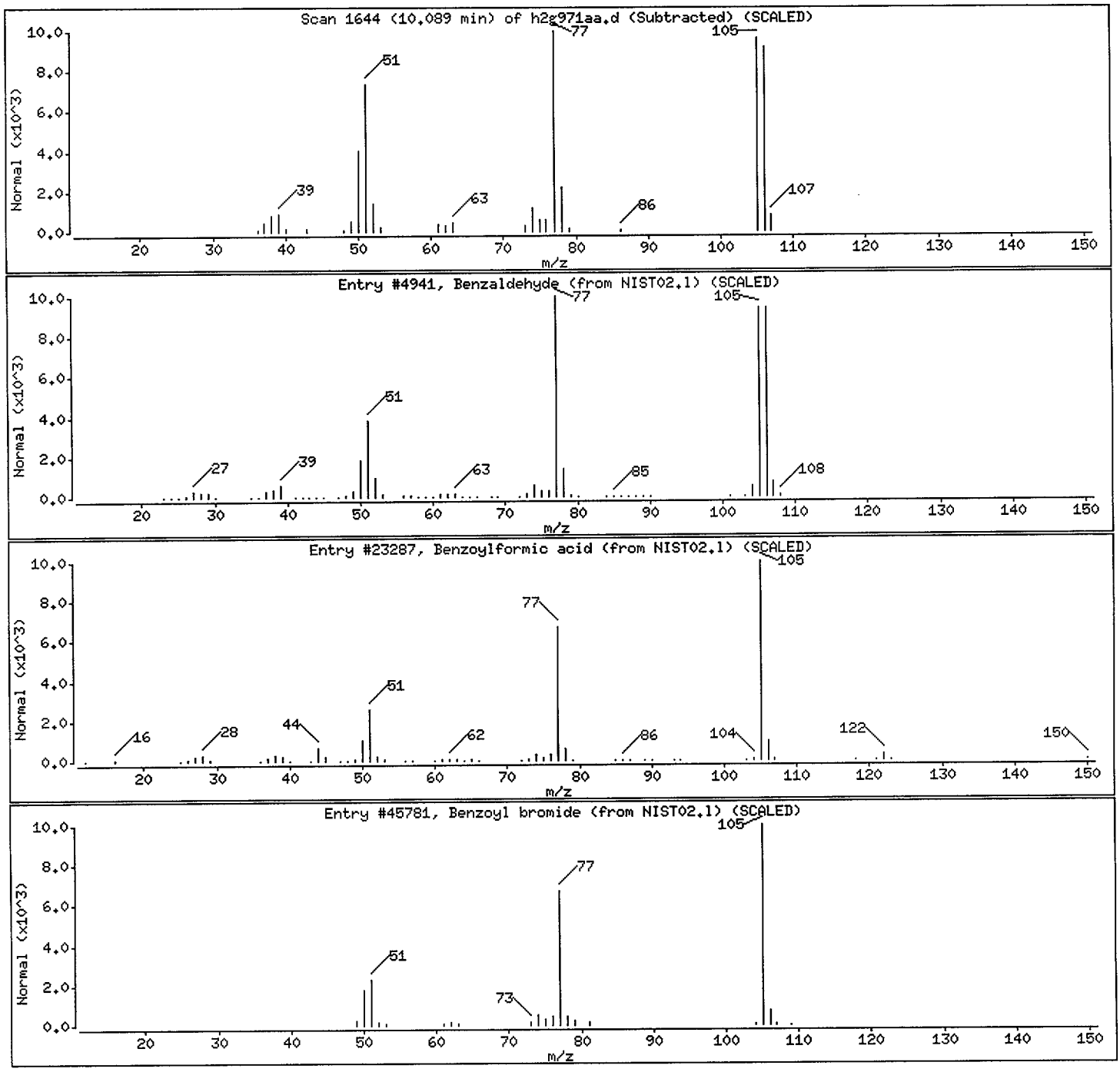
Sample Info: H2G971AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.1	4941	95	C7H6O	106
Benzoylformic acid	611-73-4	NIST02.1	23287	72	C8H6O3	150
Benzoyl bromide	618-32-6	NIST02.1	45781	72	C7H5BrO	184



STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.32**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0063 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0028 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.011**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-017 **Work Order #:** H2G981AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Lab Smp Id: H2G981AA Client Smp ID: G-3011-R2-VOST PAIR
Inj Date : 07-APR-2006 16:20
Operator : 22980 Inst ID: mz.i
Smp Info : H2G981AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	649335	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	163074	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	229143	10.0000	
$ 4 Dibromofluoromethane	113	4.835	4.831	(0.852)	108429	10.4212	0.26053
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	88440	9.82951	0.24574
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	657167	9.17167	0.22929
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	202378	8.75749	0.21894
10 Dichlorodifluoromethane	85	1.009	1.016	(0.178)	4018	0.25352	0.0063379
11 Chloromethane (spcc)	50	1.125	1.126	(0.198)	481147	12.6644	0.31661
15 Bromomethane	94	1.417	1.418	(0.250)	2660	1.21835	0.030459
16 Chloroethane	64	1.459	1.485	(0.257)	47036	3.88406	~~0.097101~~
22 Acetone	43	2.122	2.123	(0.374)	1534	3.63893	0.090973 - see reprint for (M)
23 *Iodomethane	142	2.195	2.184	(0.387)	1238	0.59543	0.014886
27 Methylene Chloride	84	2.506	2.513	(0.442)	1707	0.15726	0.0039316
39 *THF	42	4.550	4.532	(0.802)	764	0.49610	~~0.012402~~
44 Benzene	78	5.304	5.305	(0.935)	6594	0.10298	0.0025746

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

JW 4.14.06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	10972	0.80923	0.020231
46 Trichloroethene	130	6.125	6.114	(1.079)	8008	0.44462	0.011116
53 4-Methyl-2-pentanone	43	7.457	7.386	(1.314)	5263	0.92821	0.023205
54 Toluene (ccc)	91	7.530	7.532	(0.843)	10302	0.11101	0.0027752
55 trans-1,3-Dichloropropene	75	7.537	7.793	(0.843)	118	0.63330	0.015832
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	2413	0.04660	0.0011650
65 Ethylbenzene (ccc)	106	9.228	9.101	(1.033)	1895	0.05678	0.0014195
67 o-Xylene	106	9.228	9.612	(1.033)	1895	0.05318	0.0013294
68 Styrene	104	9.629	9.630	(1.078)	2872	0.05740	0.0014350
83 1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	2863	0.07140	0.0017849
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2863	0.07676	0.0019189

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 14-Apr-2006 15:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Lab Smp Id: H2G981AA Client Smp ID: G-3011-R2-VOST PAIR
Inj Date : 07-APR-2006 16:20
Operator : 22980 Inst ID: mz.i
Smp Info : H2G981AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	649335	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	163074	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	229143	10.0000	
$ 4 Dibromofluoromethane	113	4.835	4.831	(0.852)	108429	10.4211	0.26053
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	88440	9.82948	0.24574
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	657167	9.17167	0.22929
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	202378	8.75748	0.21894
10 Dichlorodifluoromethane	85	1.009	1.016	(0.178)	4018	0.25350	0.0063375
11 Chloromethane (spcc)	50	1.125	1.126	(0.198)	481147	12.6644	0.31661
15 Bromomethane	94	1.417	1.418	(0.250)	2660	1.21828	0.030457
22 Acetone	43	2.122	2.123	(0.374)	3488	4.15929	0.10398(M)
23 *Iodomethane	142	2.195	2.184	(0.387)	1238	0.59540	0.014885
27 Methylene Chloride	84	2.506	2.513	(0.442)	1707	0.15719	0.0039296
44 Benzene	78	5.304	5.305	(0.935)	6594	0.10298	0.0025744
46 Trichloroethene	130	6.125	6.114	(1.079)	8008	0.44457	0.011114
54 Toluene (ccc)	91	7.530	7.532	(0.843)	10302	0.11101	0.0027751

Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 14-Apr-2006 15:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	2413	0.04658	0.0011646
68 Styrene	104	9.629	9.630	(1.078)	2872	0.05740	0.0014350
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2863	0.07674	0.0019184

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2g981aa.d
Lab Smp Id: H2G981AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3011-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	649335	-31.83
2 Chlorobenzene-d5	164101	82050	328202	163074	-0.63
3 1,4 Dichlorobenze	204390	102195	408780	229143	12.11

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.02
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 07-Apr-2006 16:37

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G981AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3011-R2-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

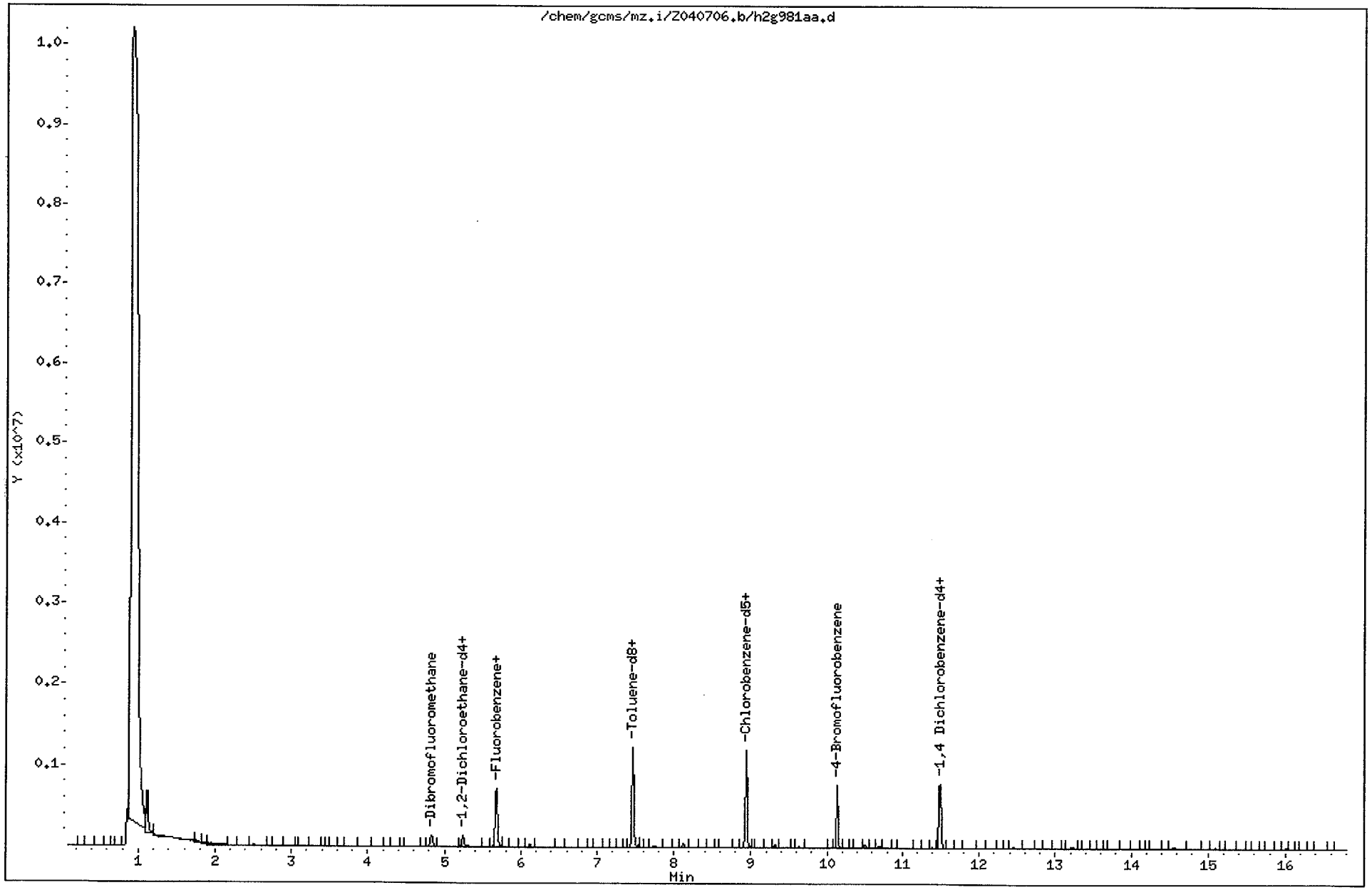
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26053	104.21	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24574	98.30	50-150
$ 6 Toluene-d8	0.25000	0.22929	91.72	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21894	87.57	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d
Date : 07-APR-2006 16:20
Client ID: G-3011-R2-VOST PAIR
Sample Info: H2G981AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

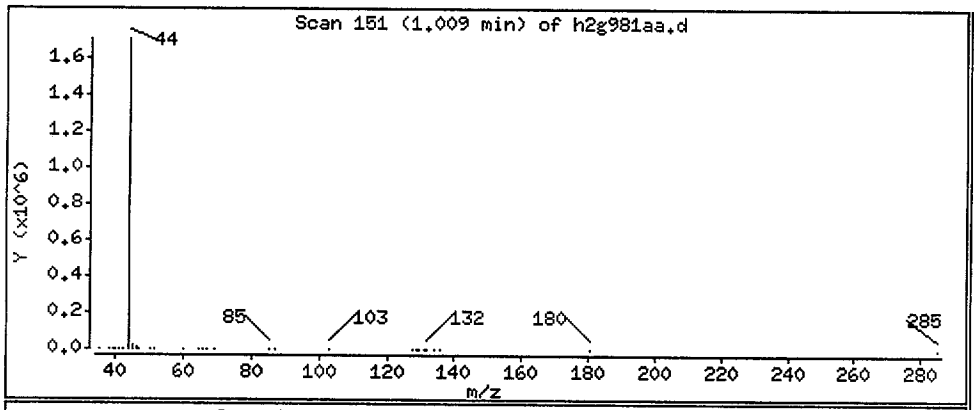
Operator: 22980

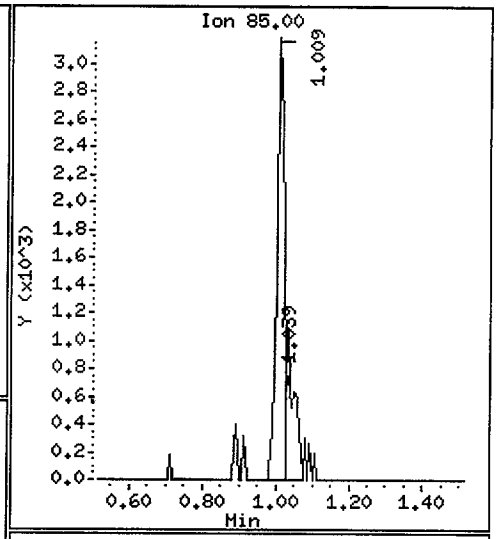
Column phase: J+W 624

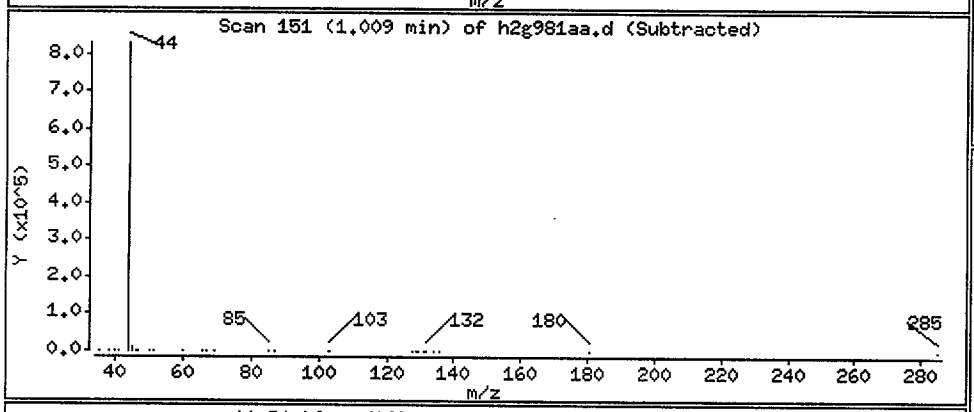
Column diameter: 0.18

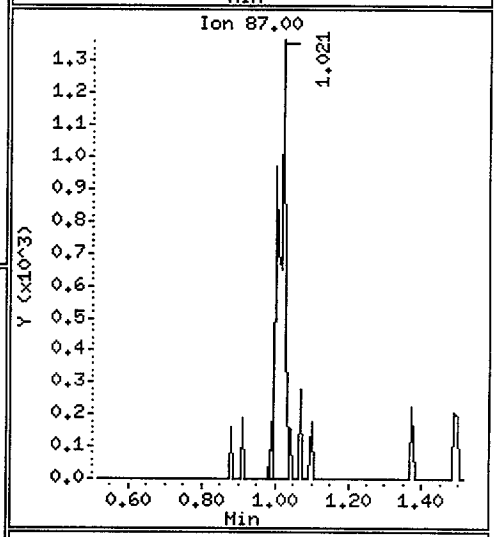
10 Dichlorodifluoromethane

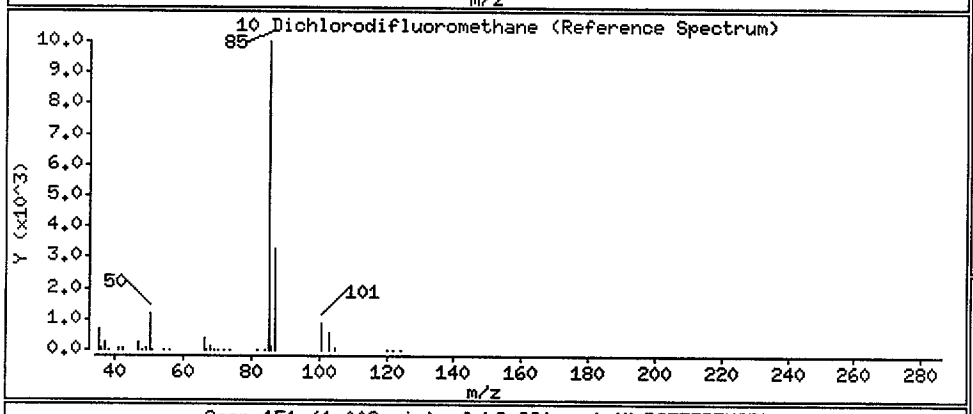
Concentration: 0.0063379 ug

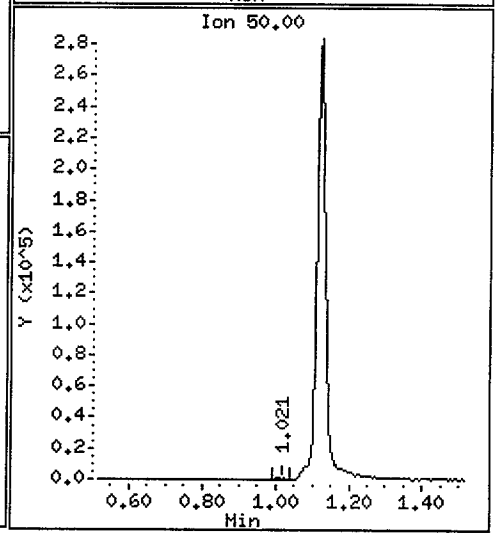


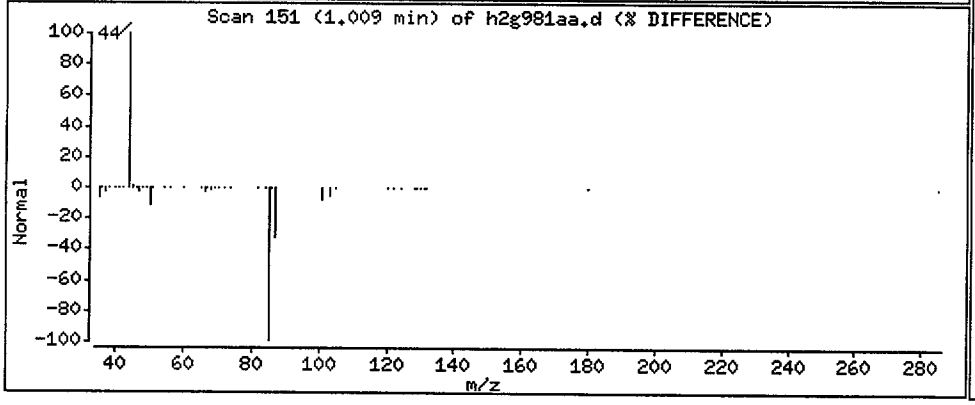












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

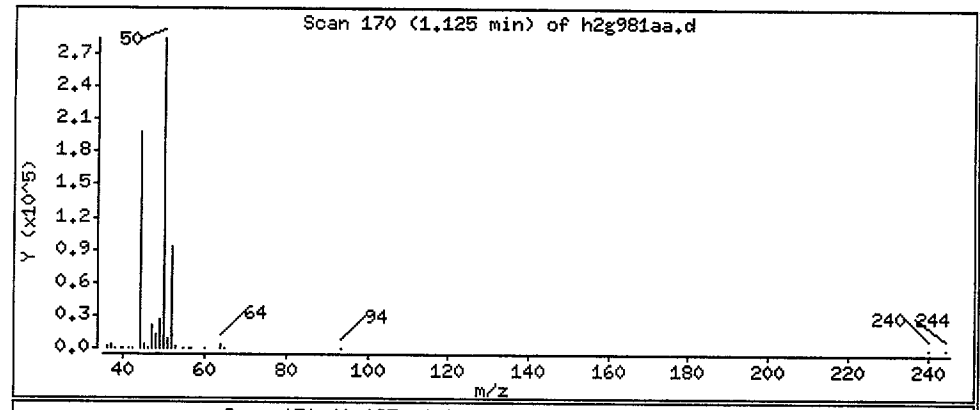
Operator: 22980

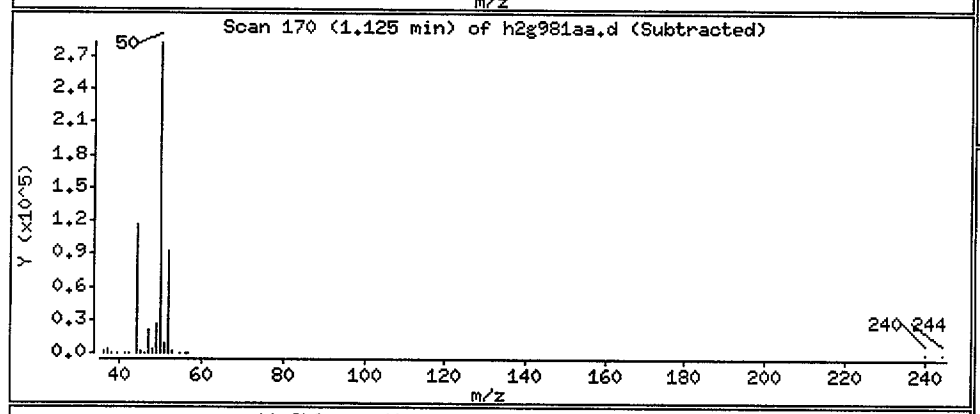
Column phase: J+W 624

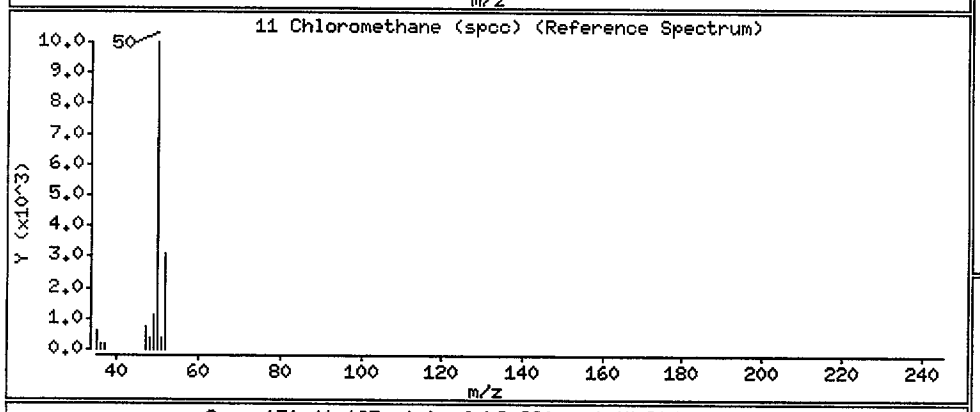
Column diameter: 0.18

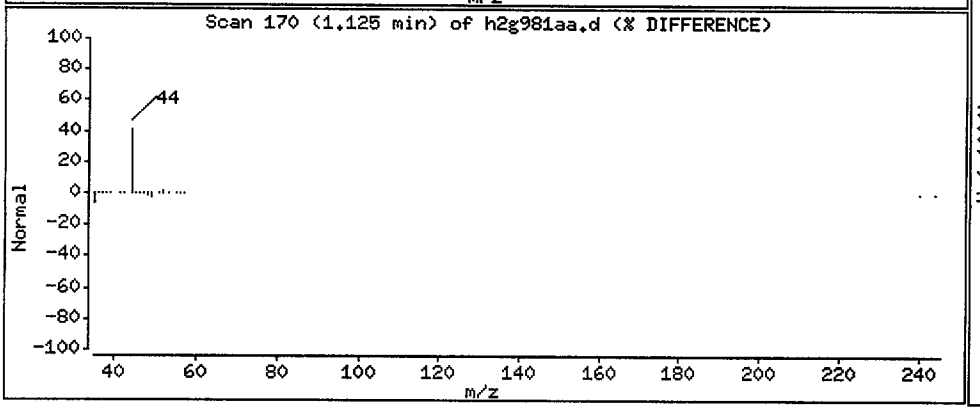
11 Chloromethane (spcc)

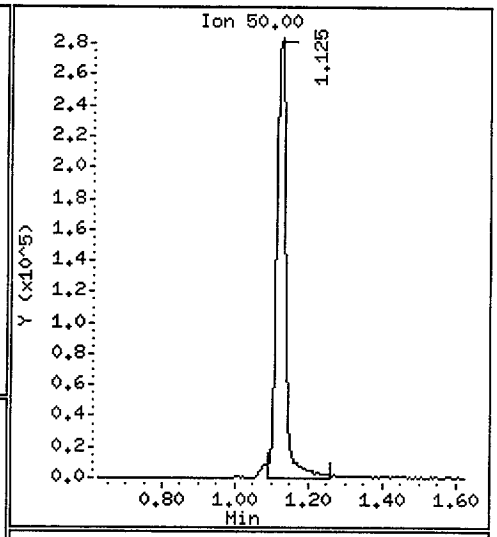
Concentration: 0.31661 ug

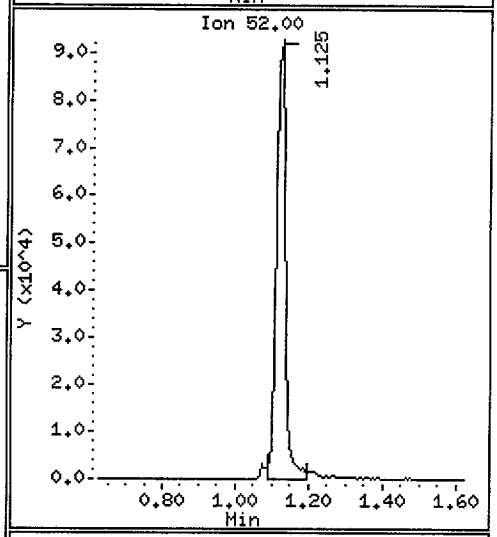


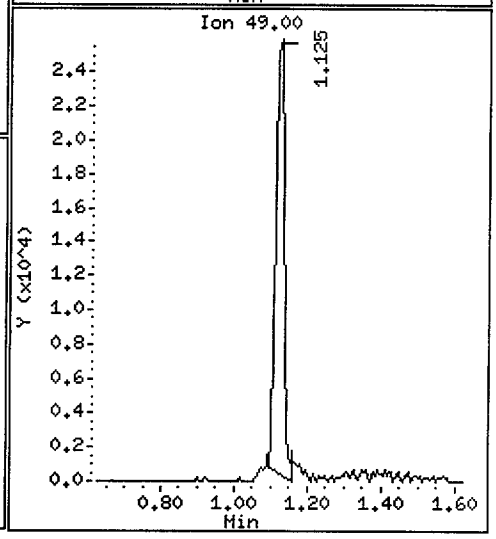












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

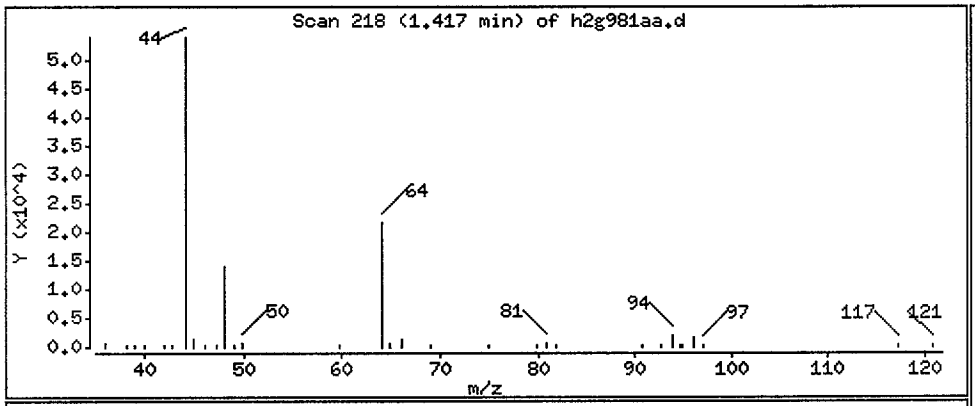
Operator: 22980

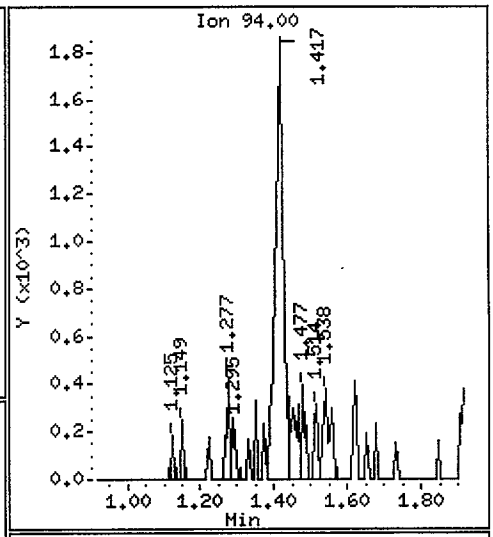
Column phase: J+W 624

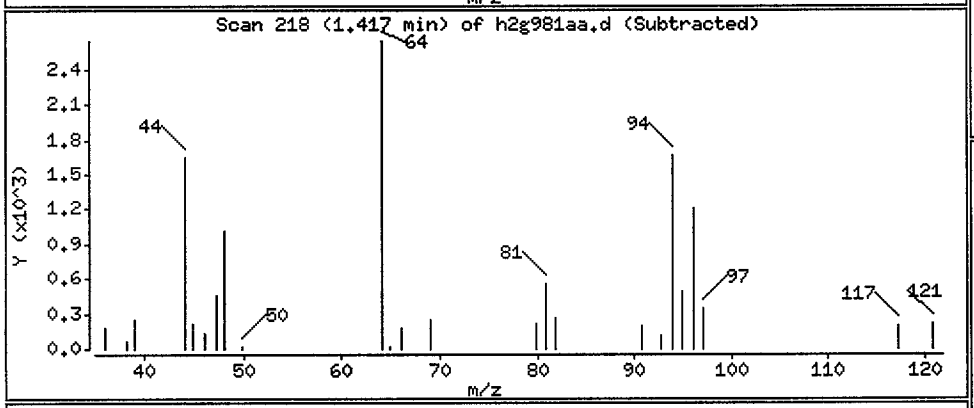
Column diameter: 0.18

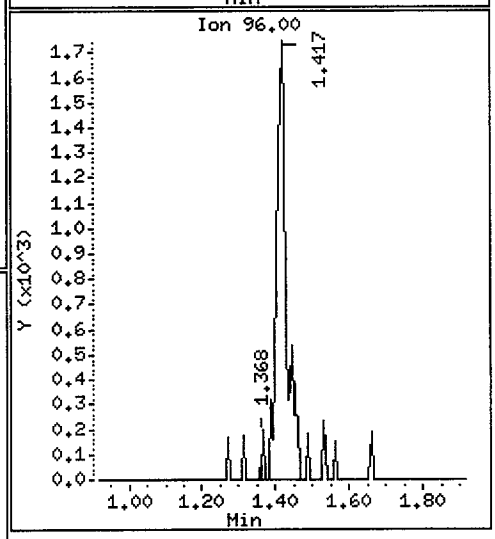
15 Bromomethane

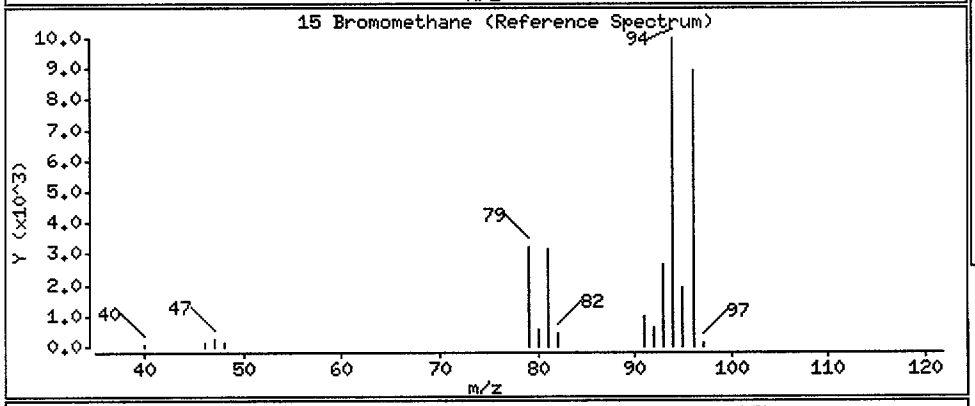
Concentration: 0.030459 ug

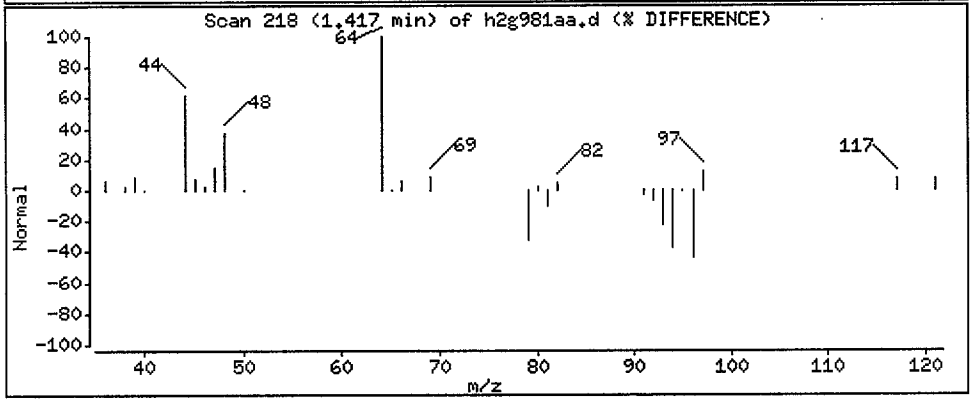












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

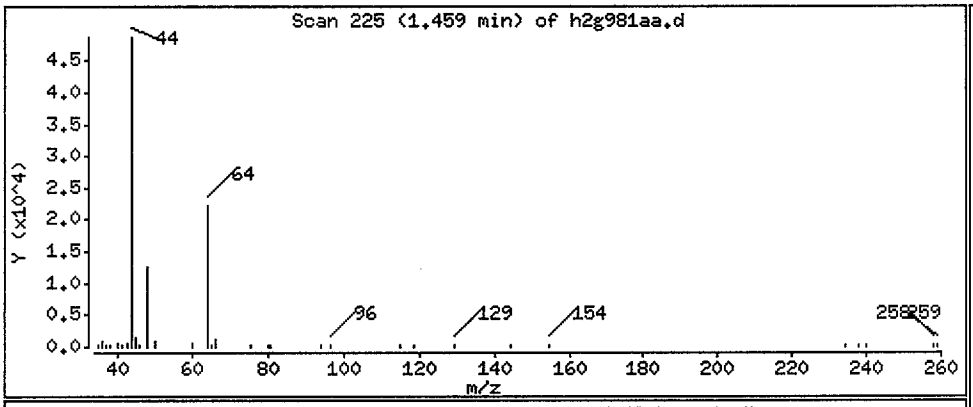
Operator: 22980

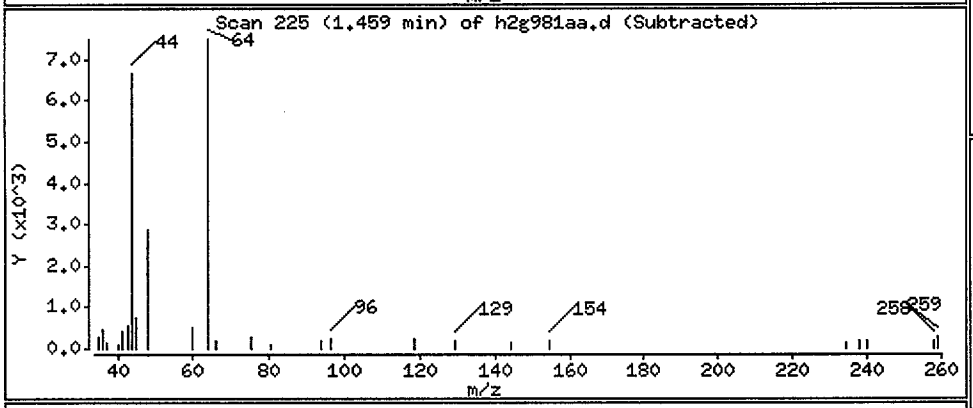
Column phase: J+W 624

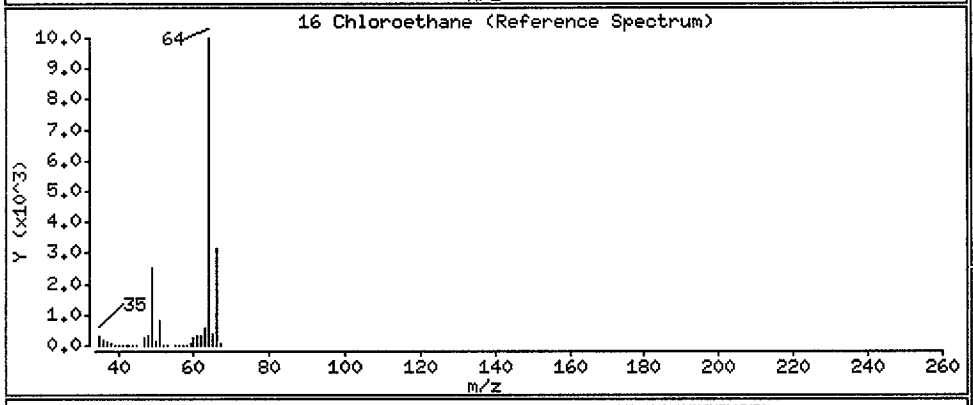
Column diameter: 0.18

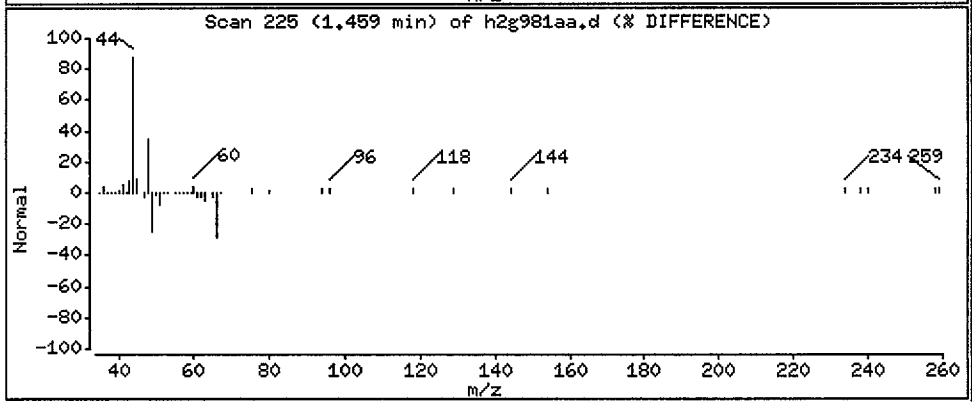
16 Chloroethane

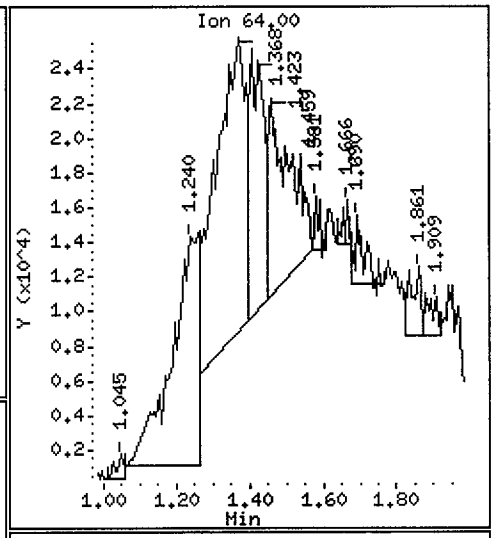
Concentration: 0.097101 ug

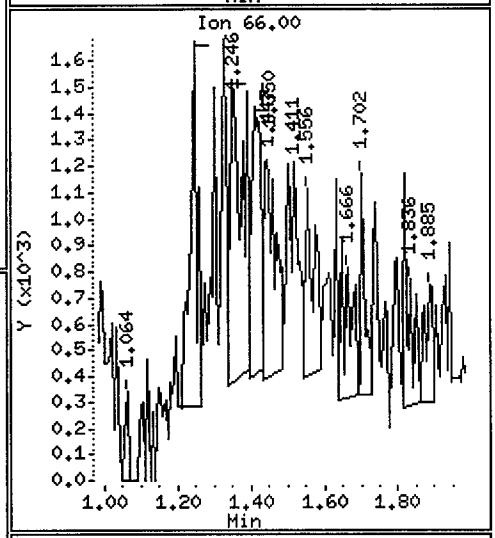


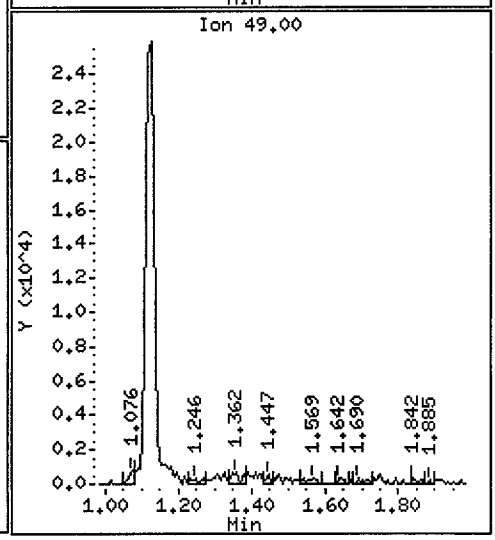












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

Operator: 22980

Column phase: J+W 624

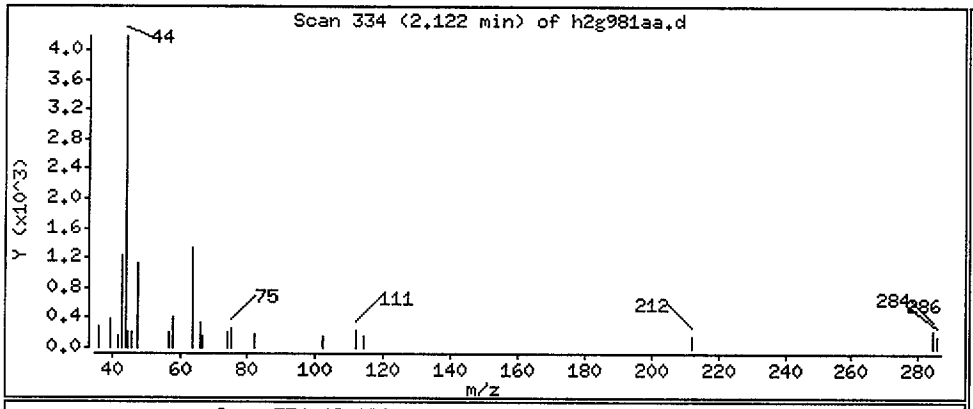
Column diameter: 0.18

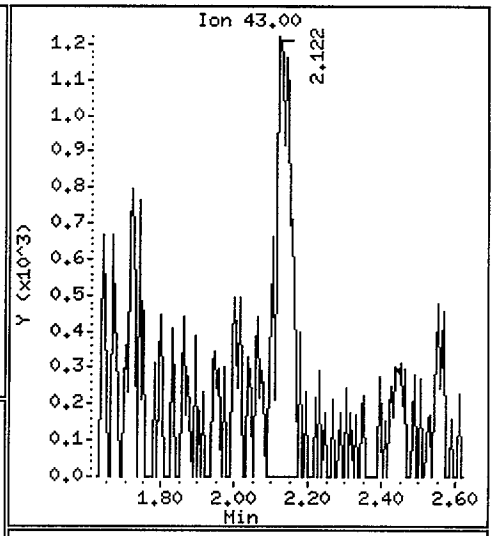
DW4-11-06

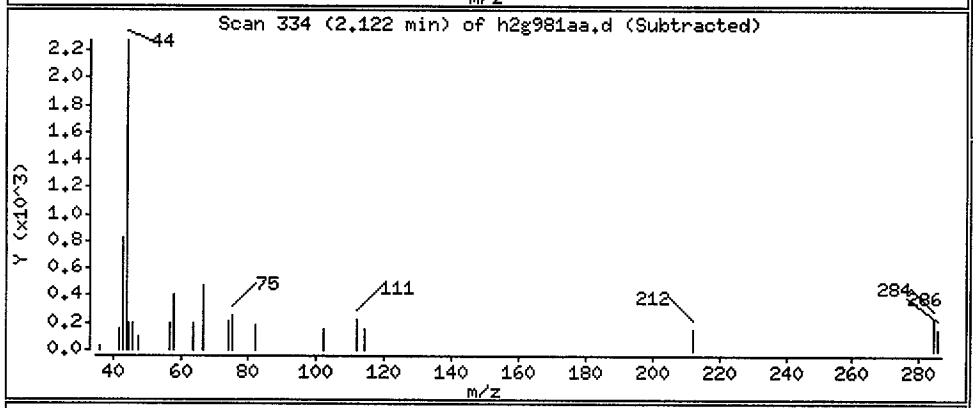
1

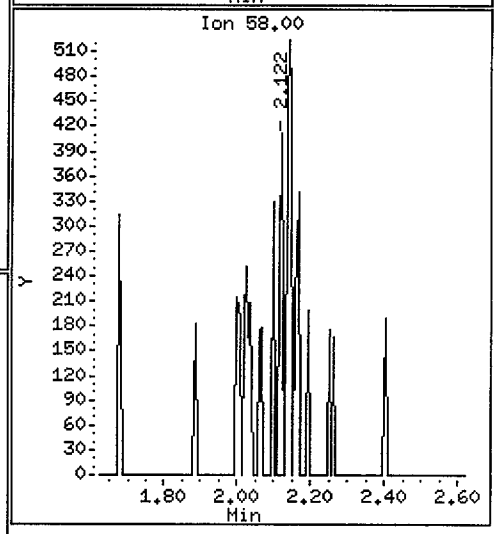
22 Acetone

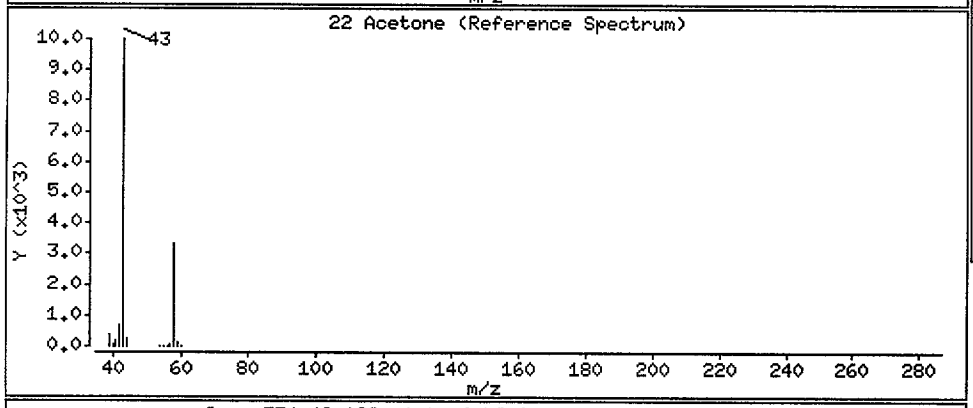
Concentration: 0.10398 ug

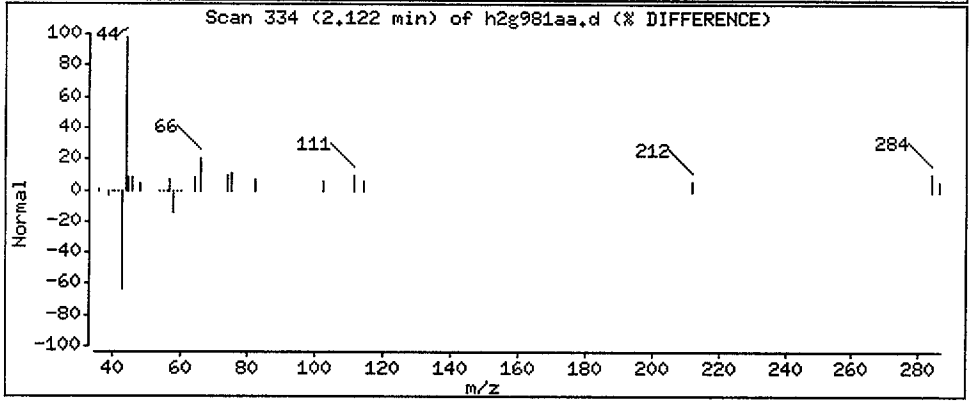












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

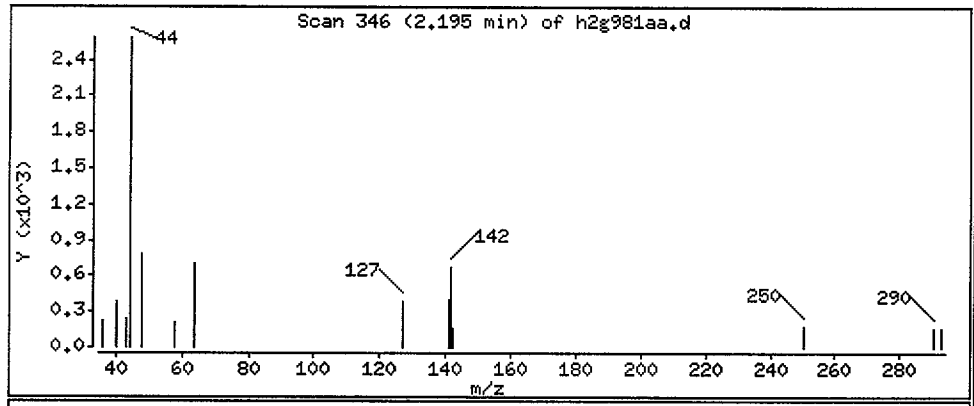
Operator: 22980

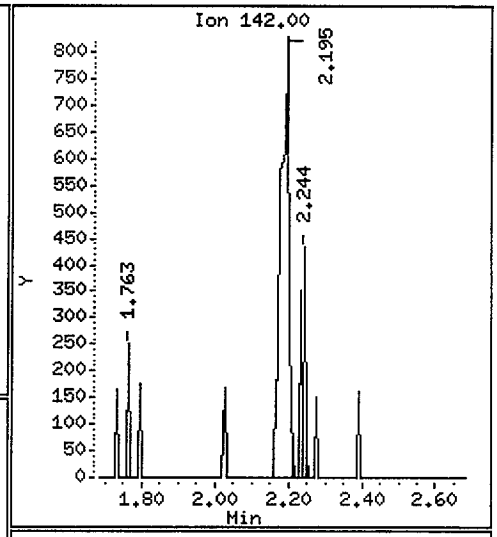
Column phase: J+W 624

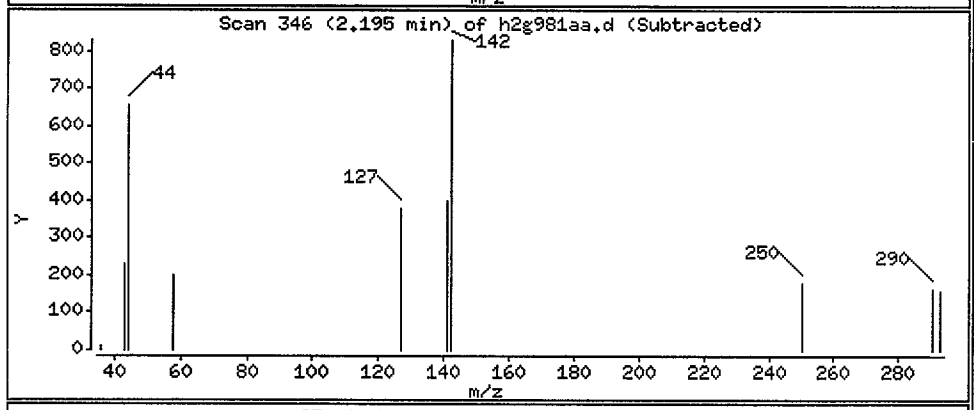
Column diameter: 0.18

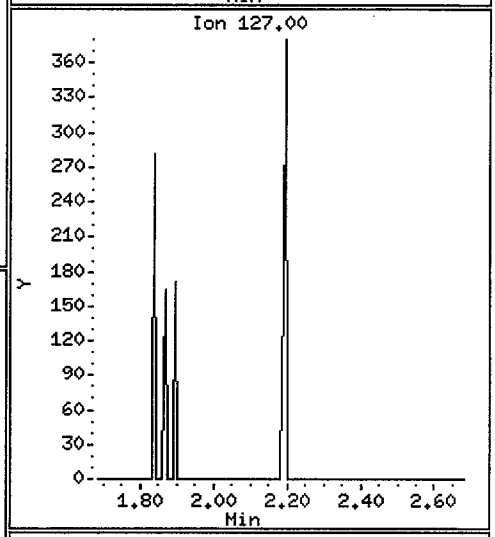
23 *Iodomethane

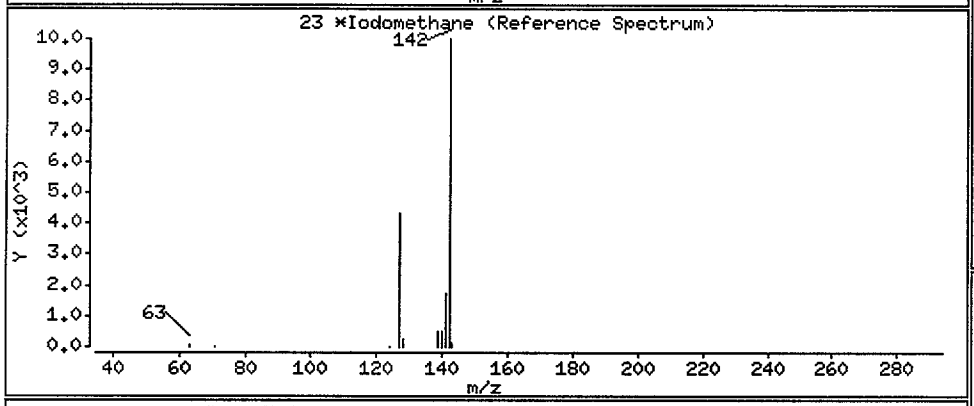
Concentration: 0.014886 ug

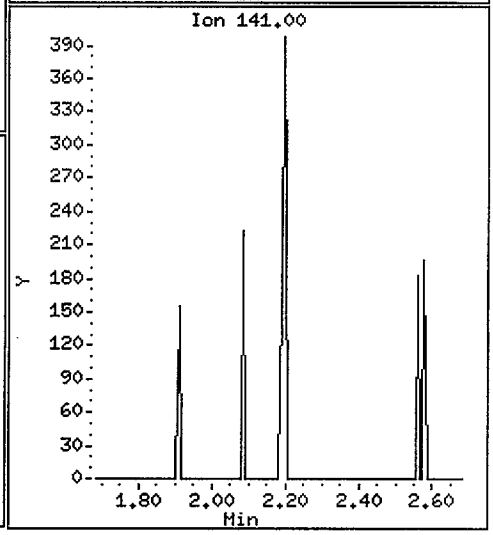


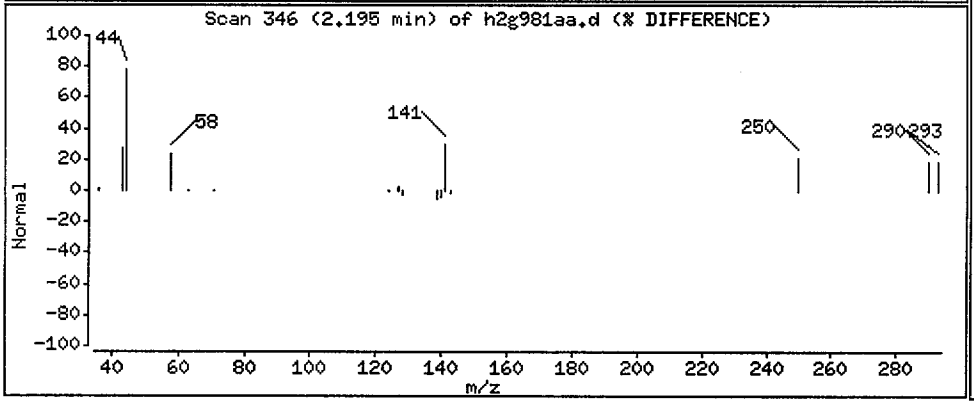












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

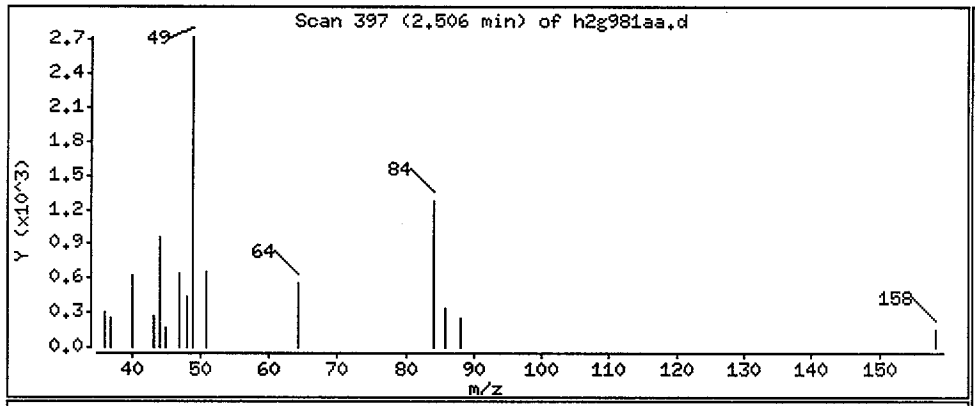
Operator: 22980

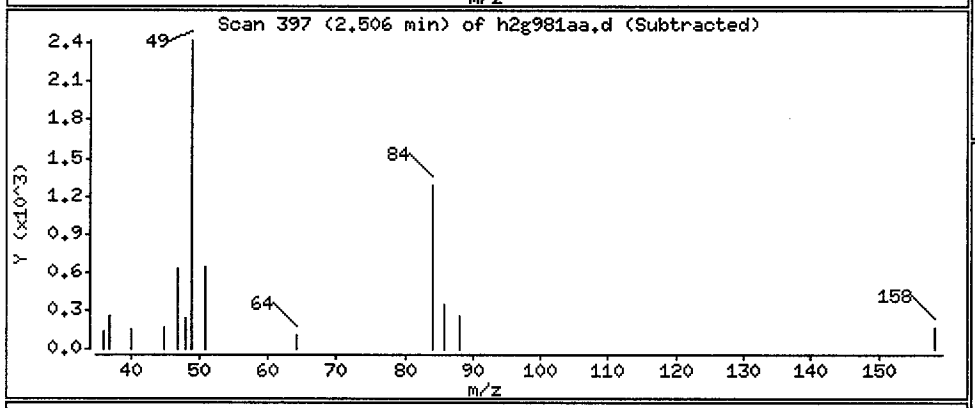
Column phase: J+W 624

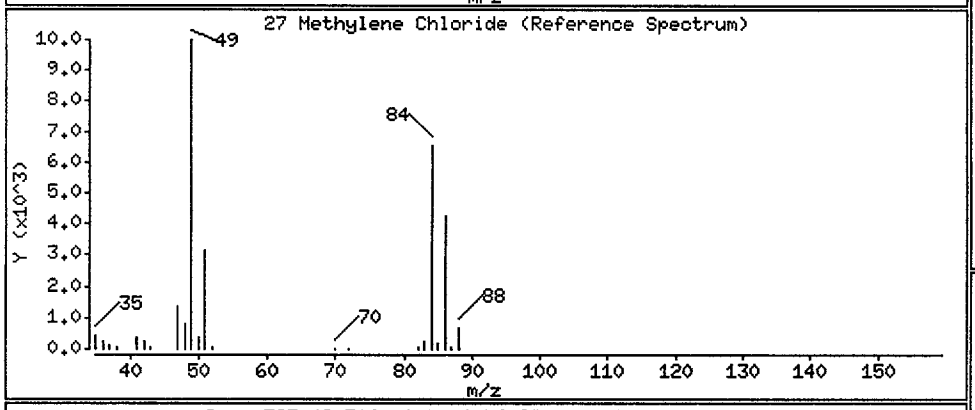
Column diameter: 0.18

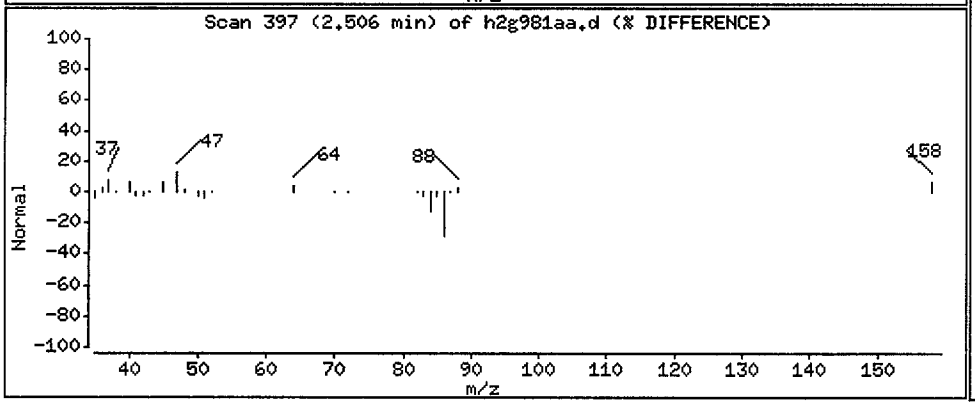
27 Methylene Chloride

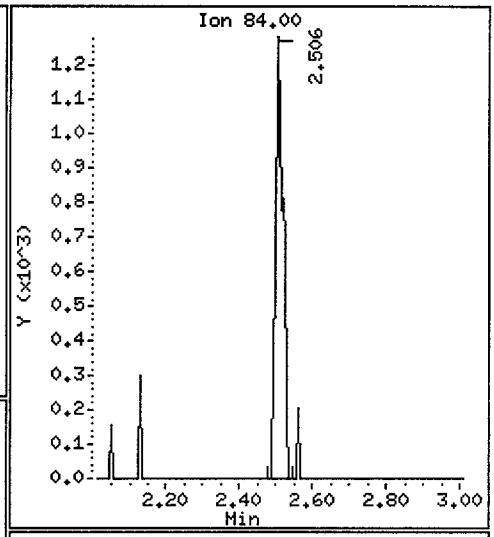
Concentration: 0.0039316 ug

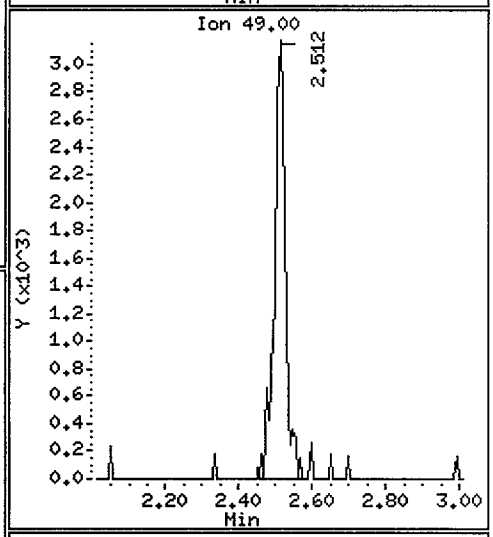


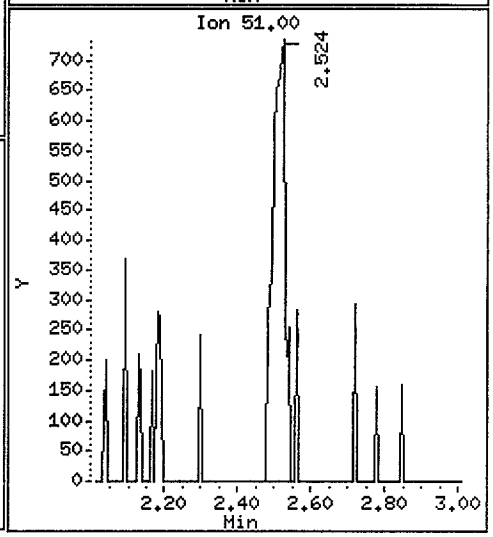












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

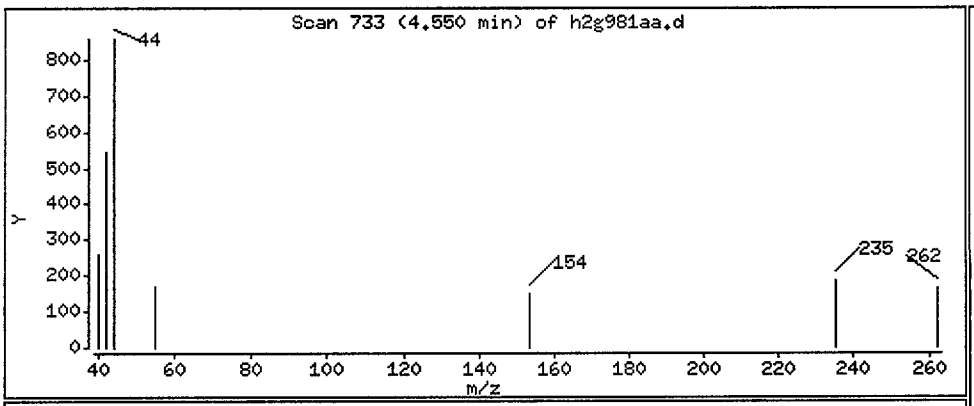
Operator: 22980

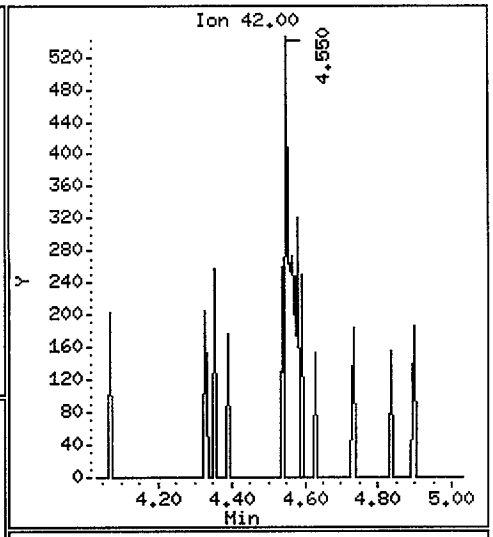
Column phase: J+W 624

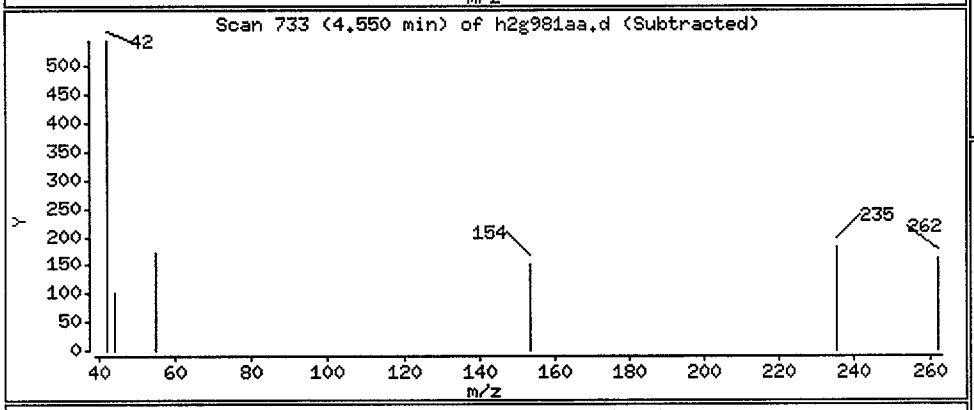
Column diameter: 0.18

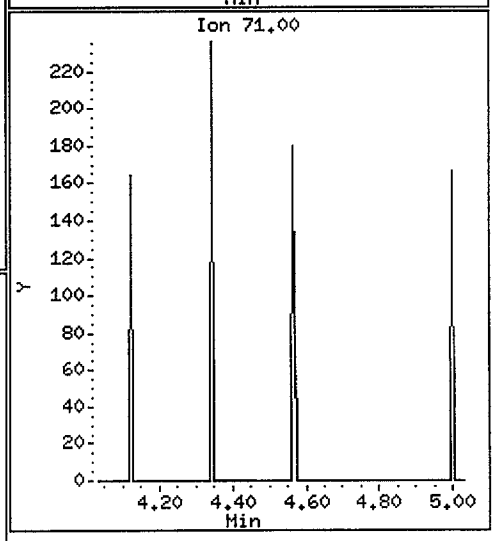
39 *THF

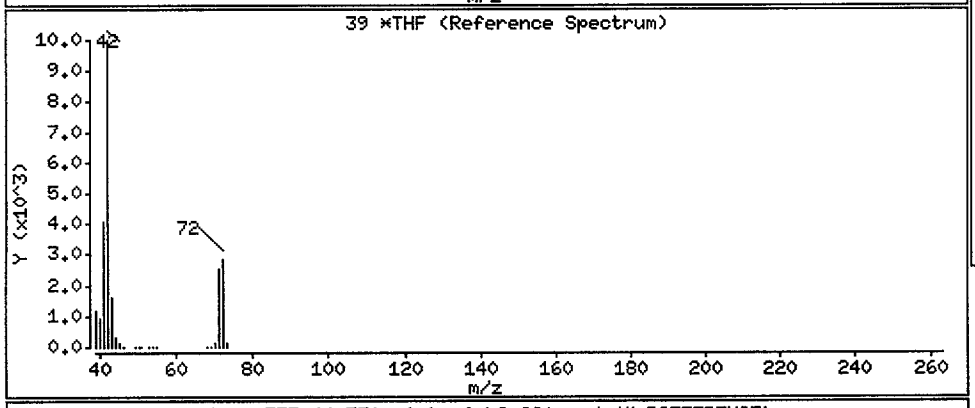
Concentration: 0.012402 ug

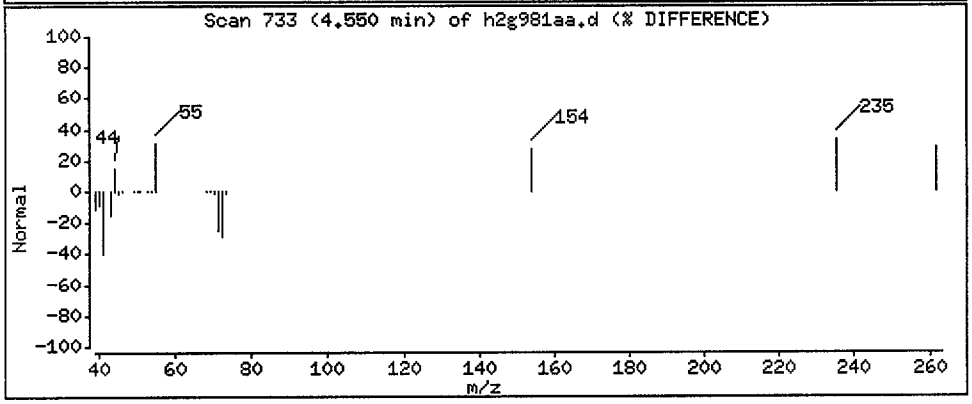












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

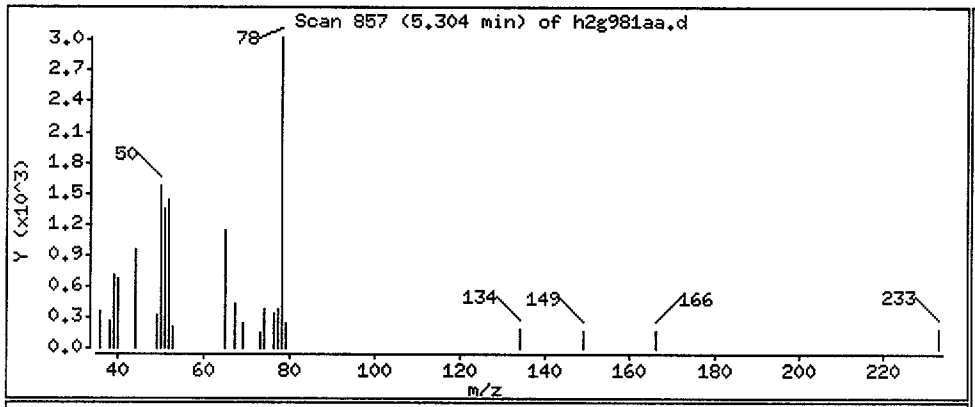
Operator: 22980

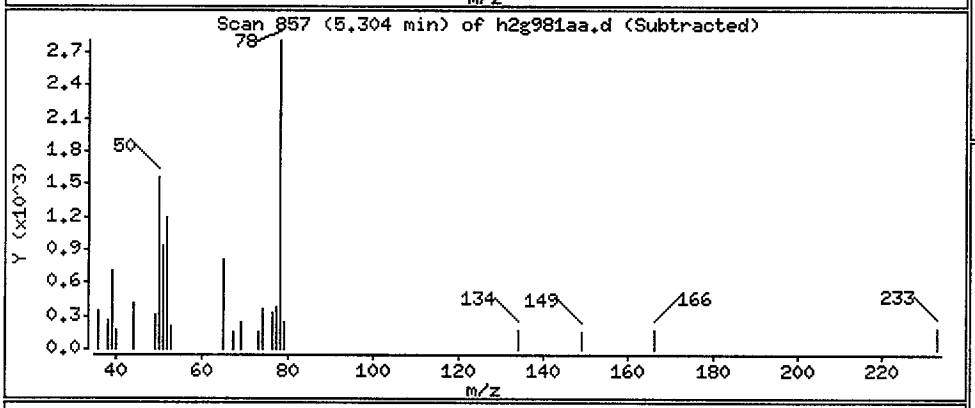
Column phase: J+W 624

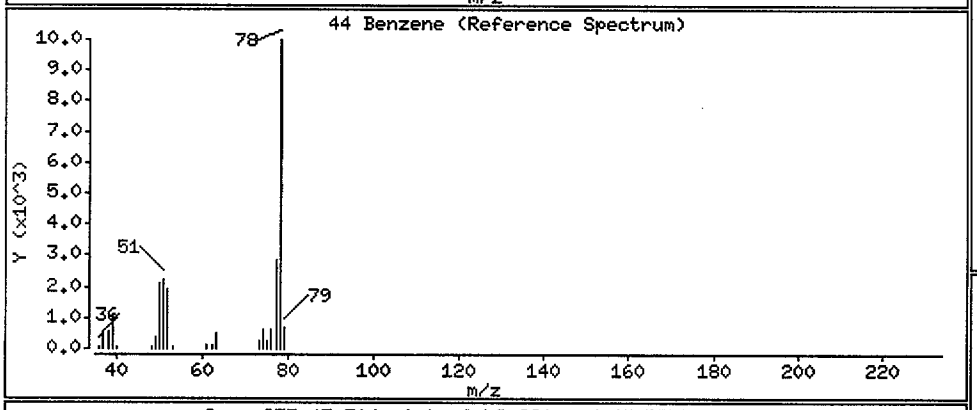
Column diameter: 0.18

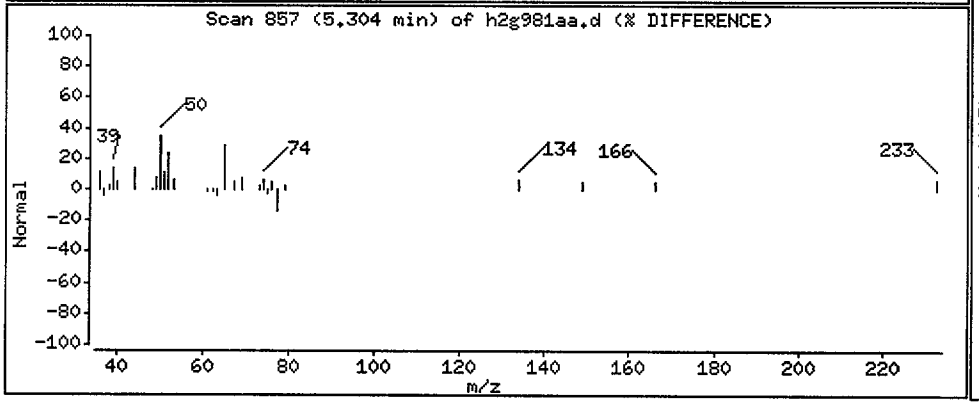
44 Benzene

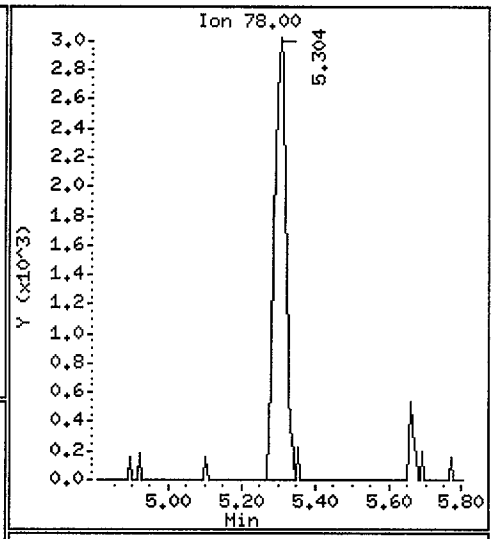
Concentration: 0.0025746 ug

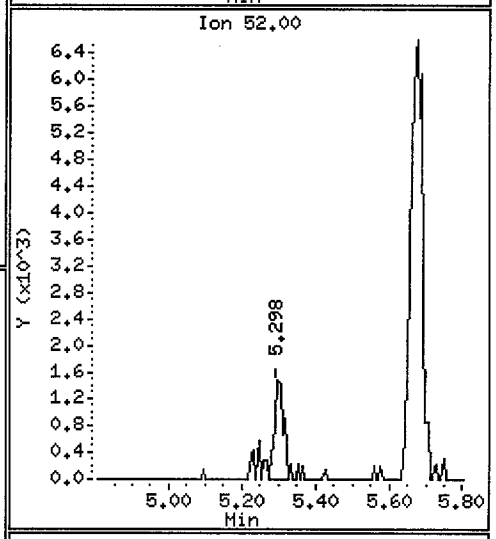


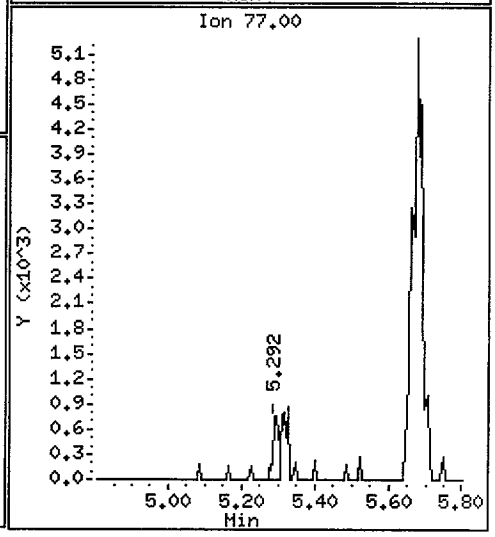












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

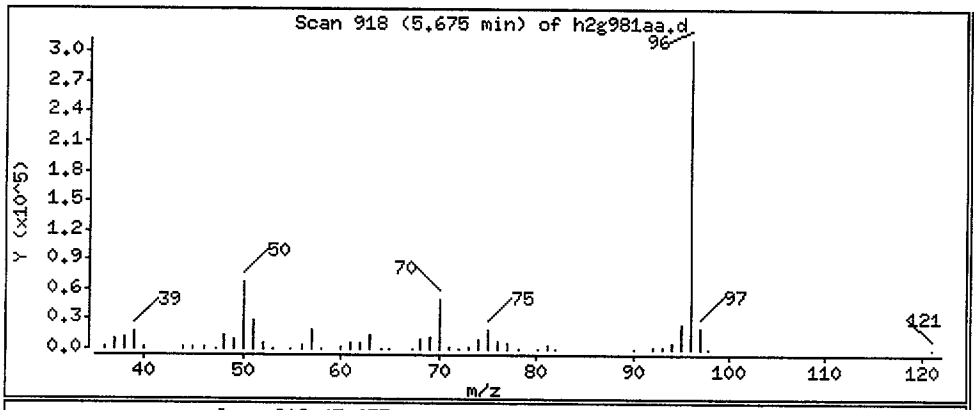
Operator: 22980

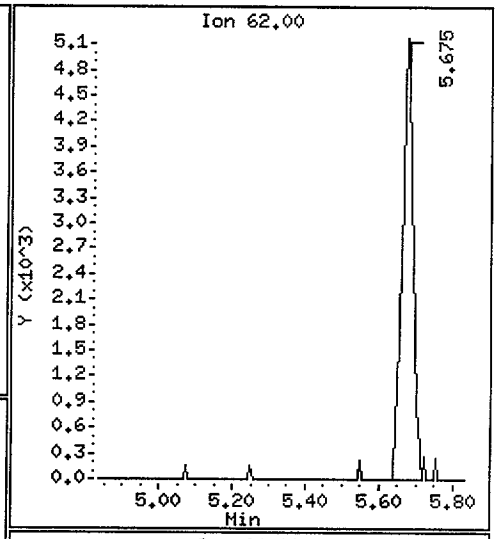
Column phase: J+W 624

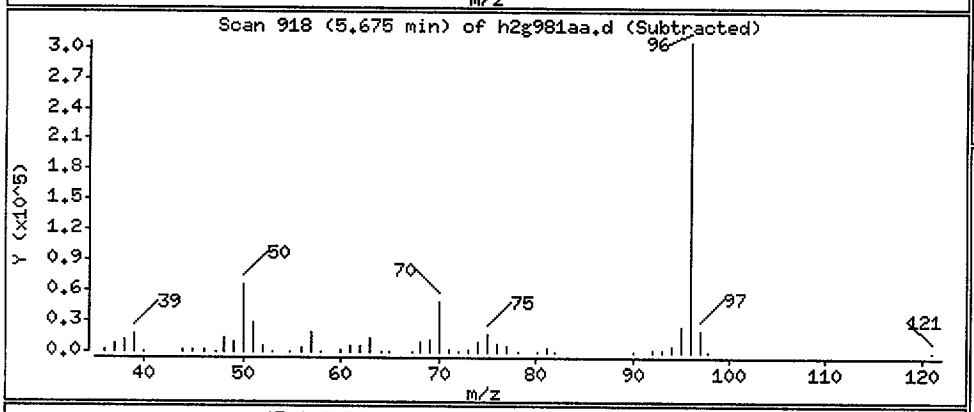
Column diameter: 0.18

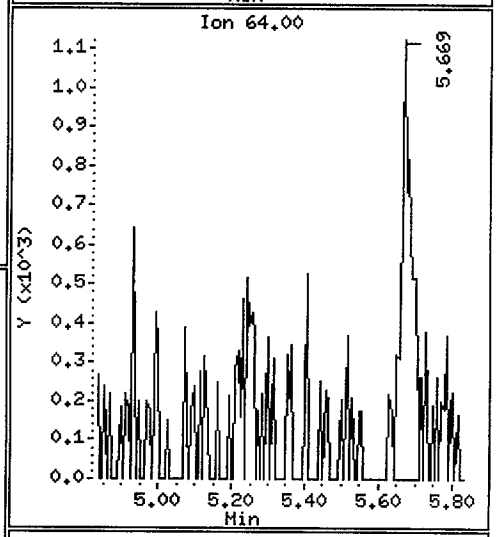
45 1,2-Dichloroethane

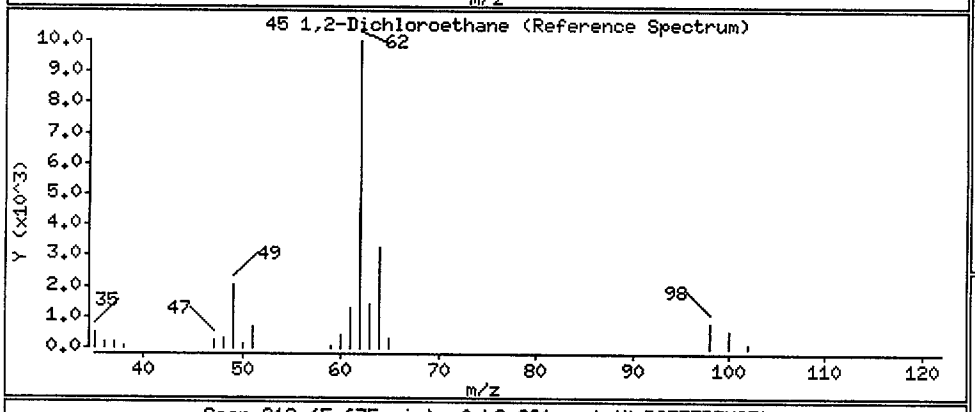
Concentration: 0.020231 ug

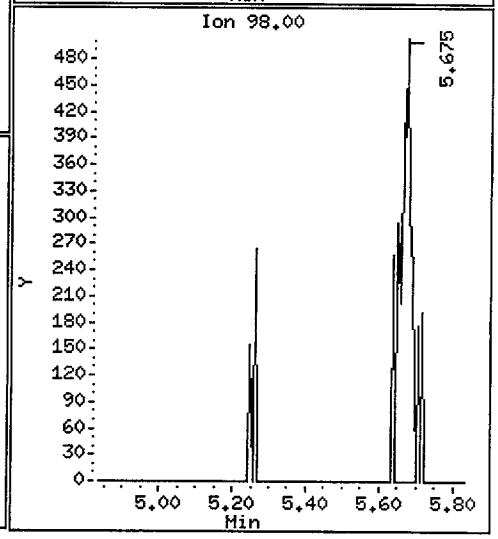


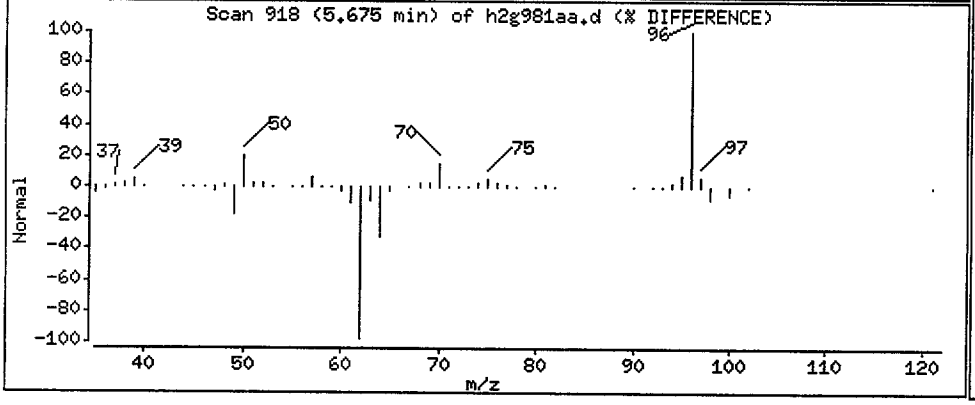












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

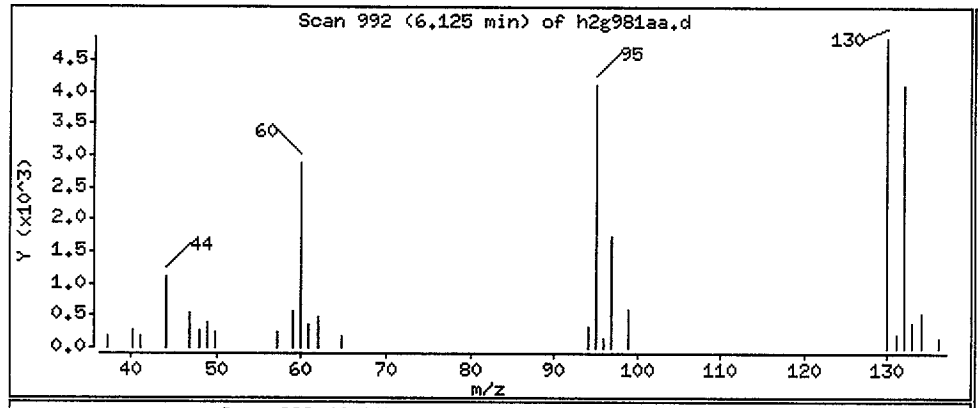
Operator: 22980

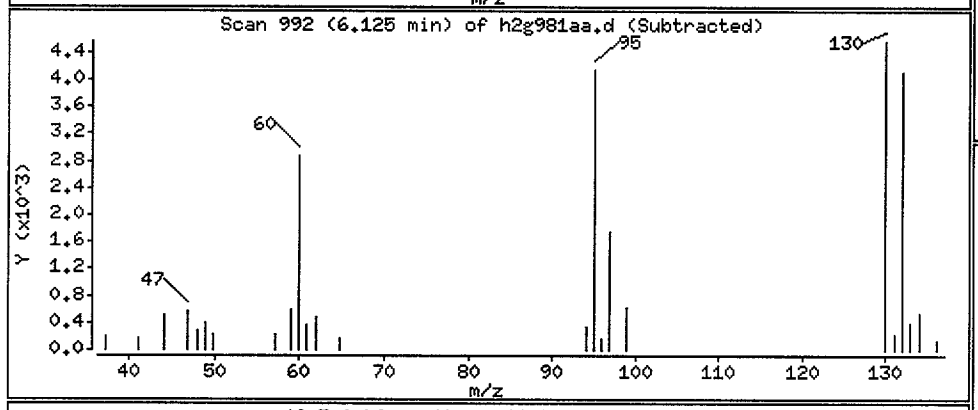
Column phase: J+W 624

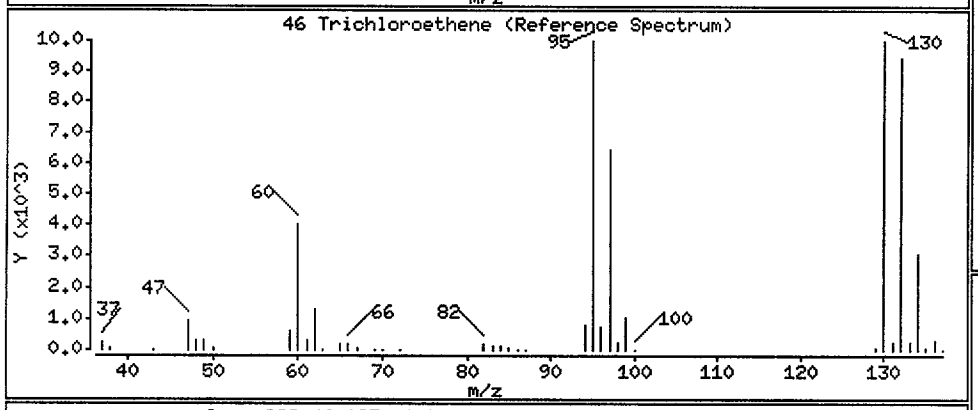
Column diameter: 0.18

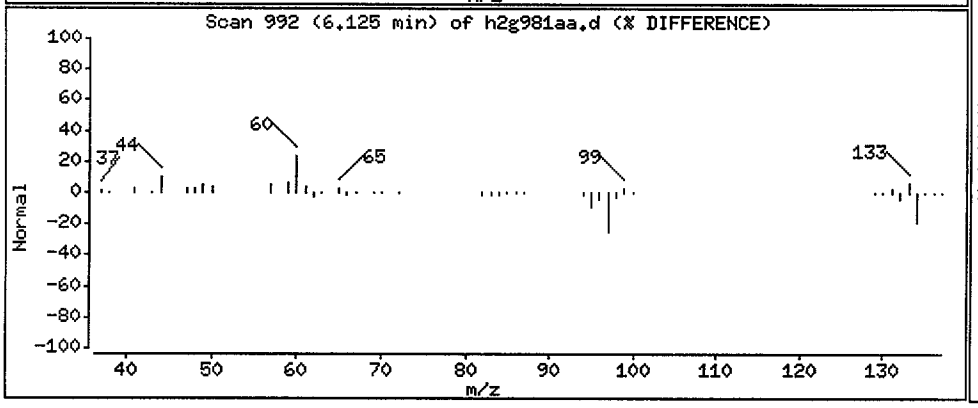
46 Trichloroethene

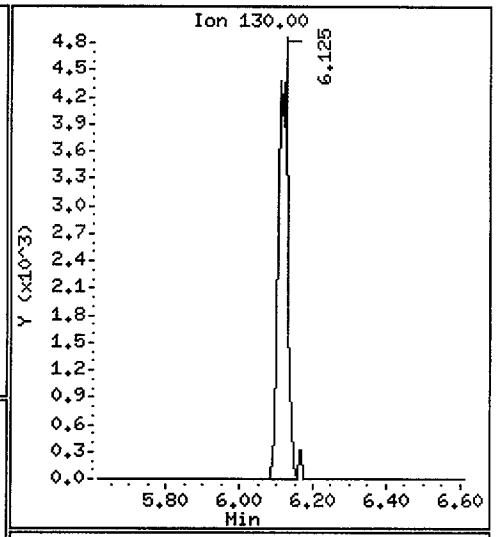
Concentration: 0.011116 ug

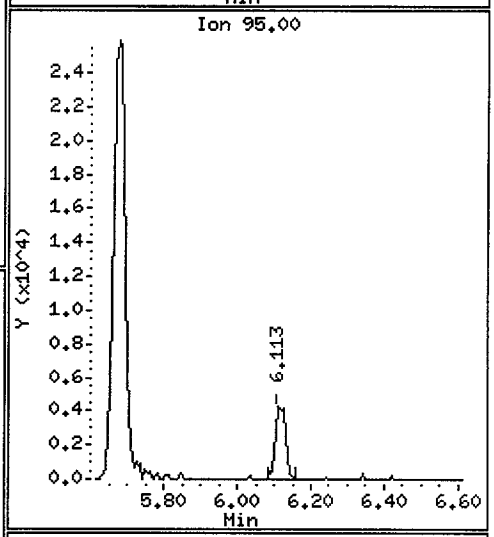


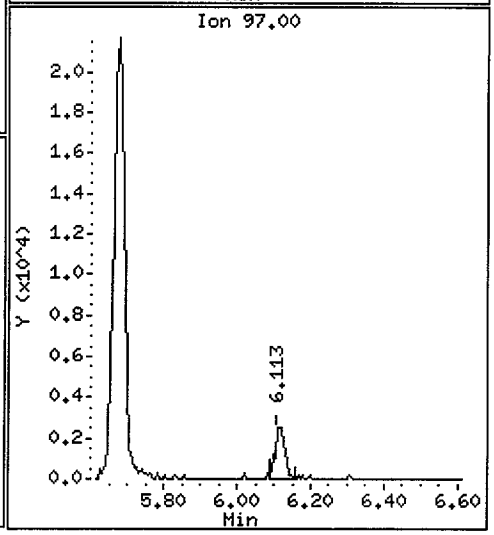












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

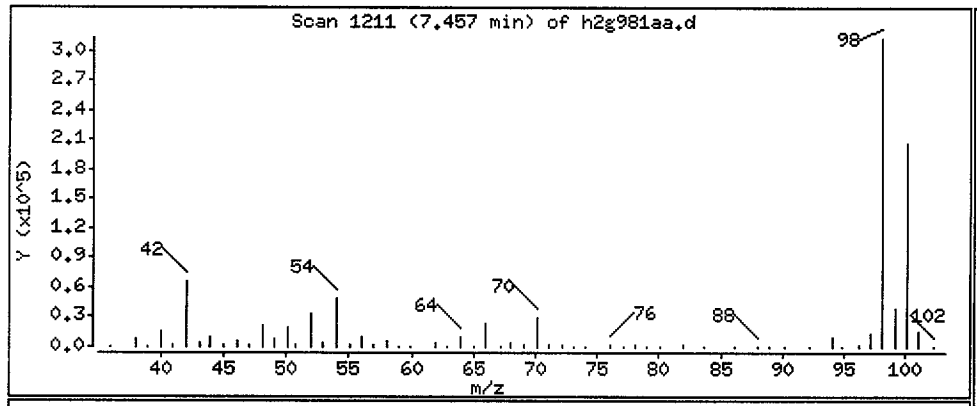
Operator: 22980

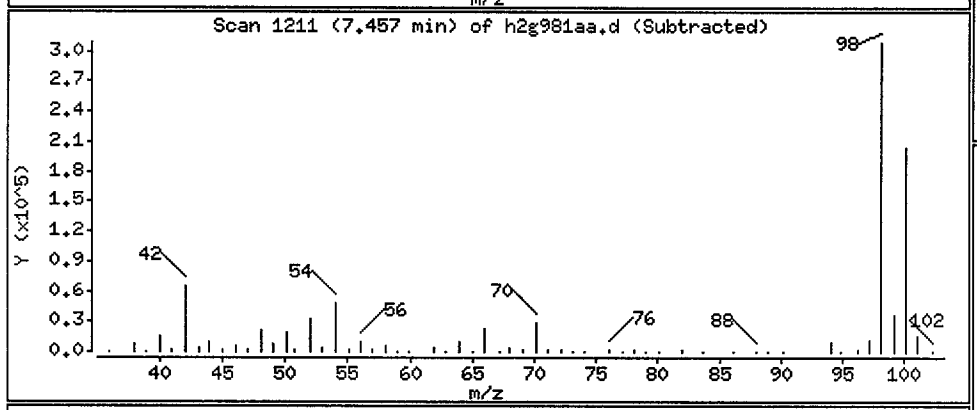
Column phase: J+W 624

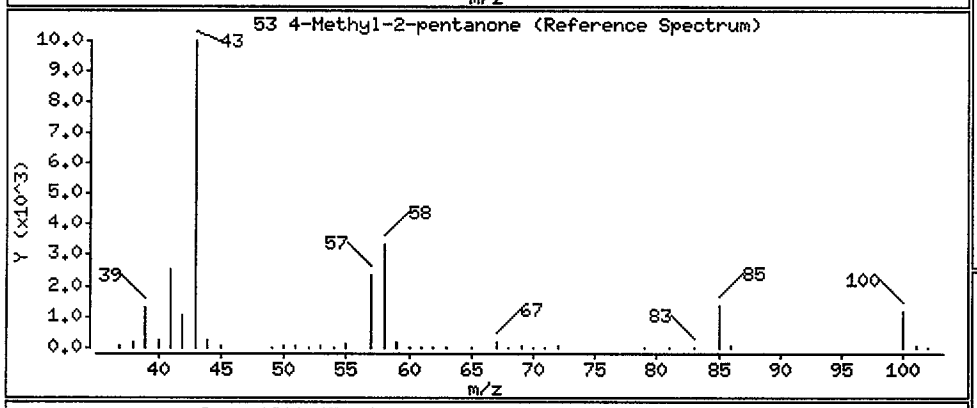
Column diameter: 0.18

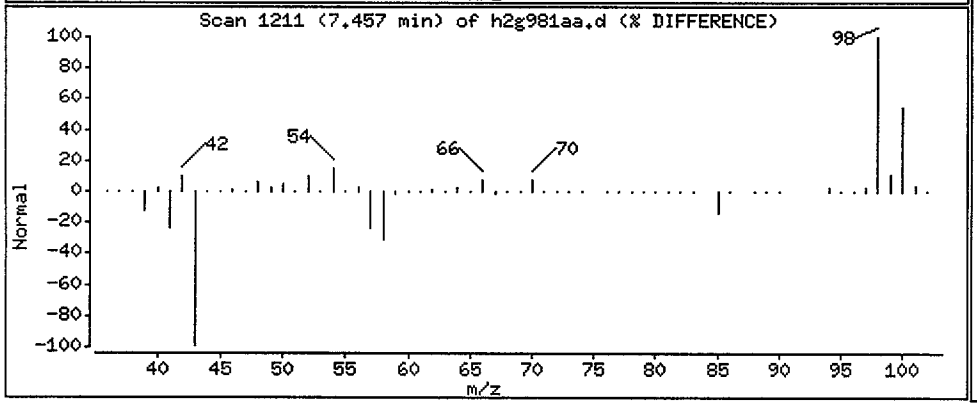
53 4-Methyl-2-pentanone

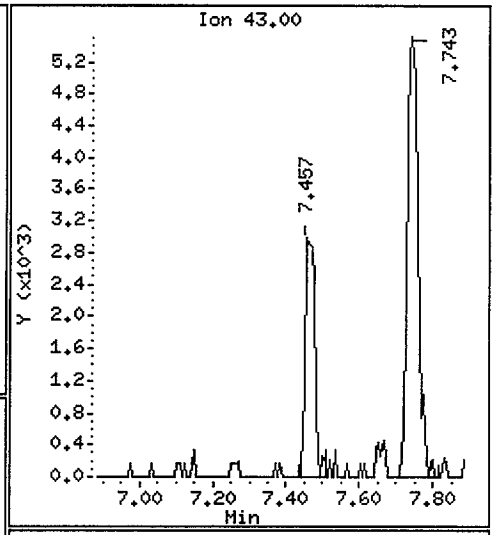
Concentration: 0.023205 ug

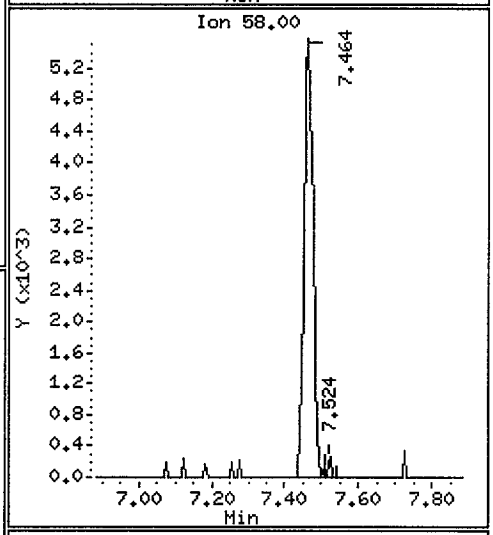


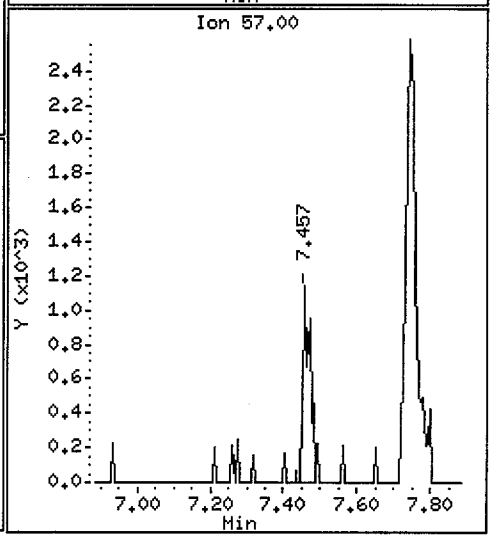












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

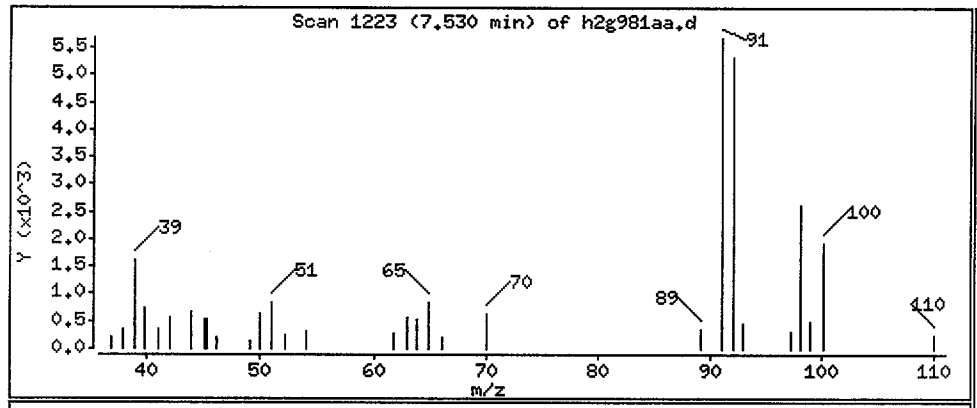
Operator: 22980

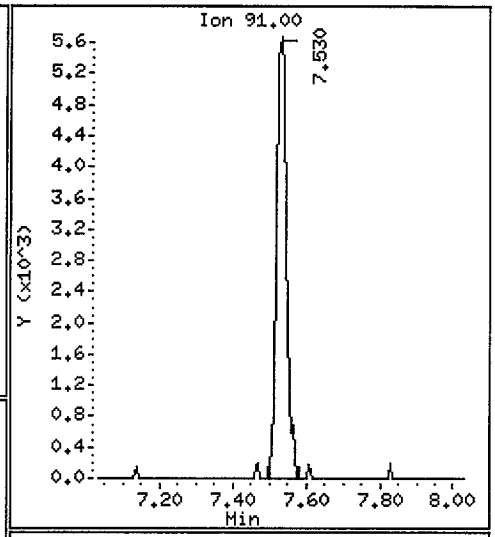
Column phase: J+W 624

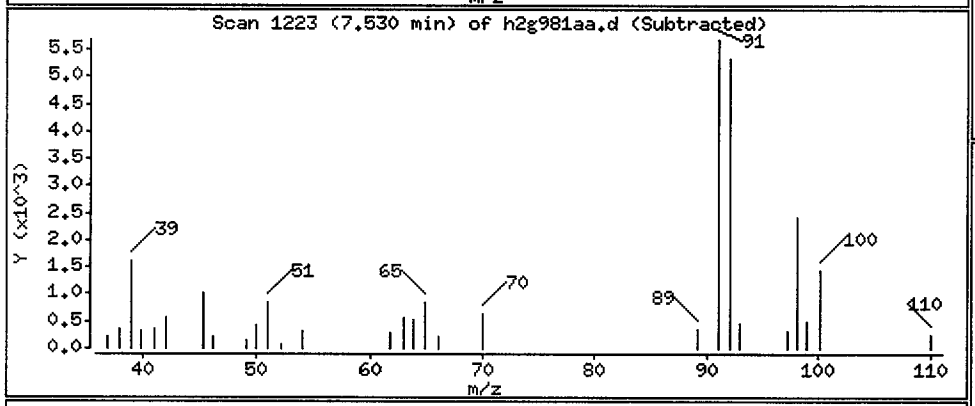
Column diameter: 0.18

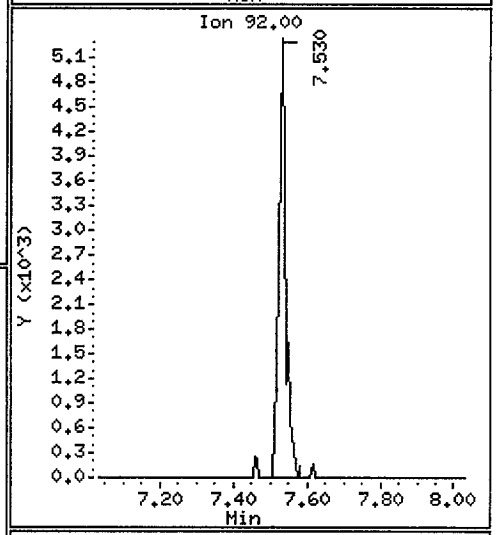
54 Toluene (ccc)

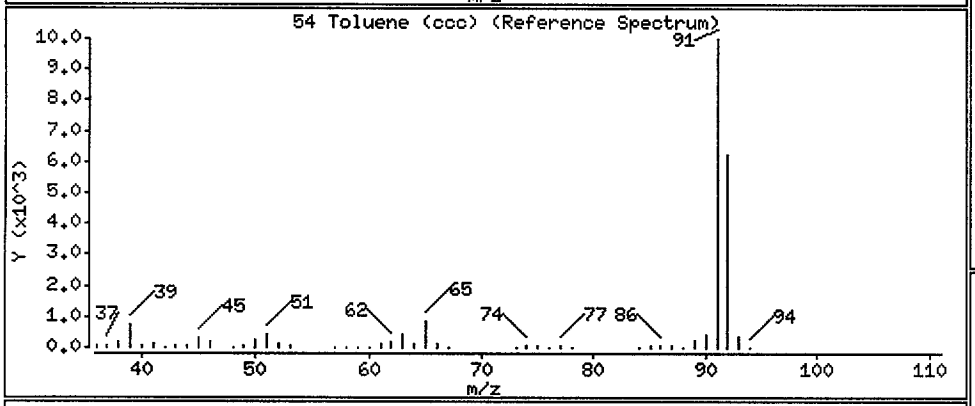
Concentration: 0.0027752 ug

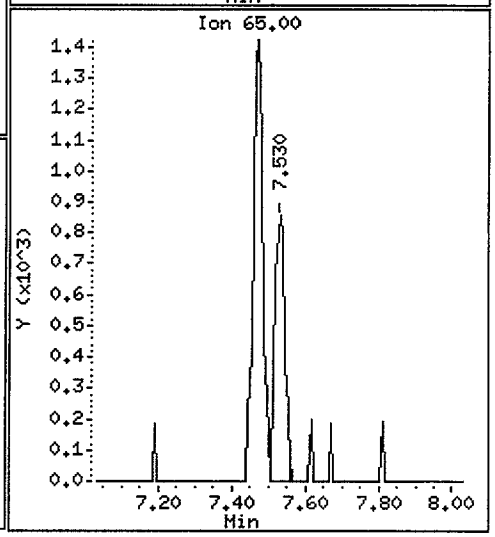


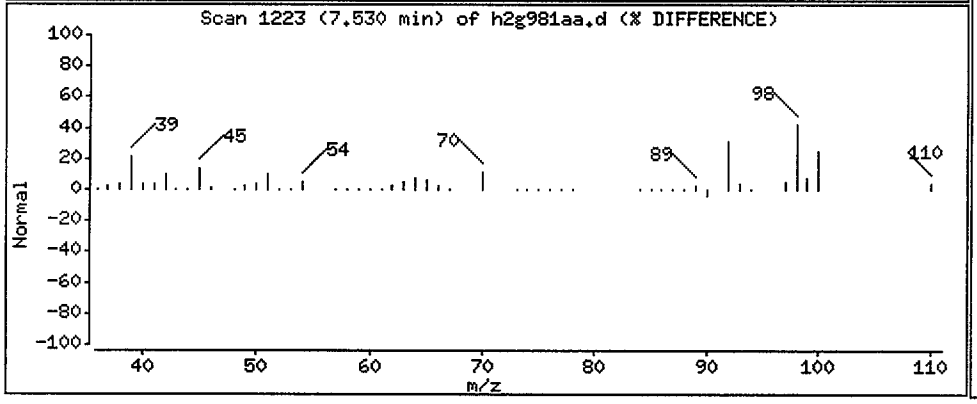












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

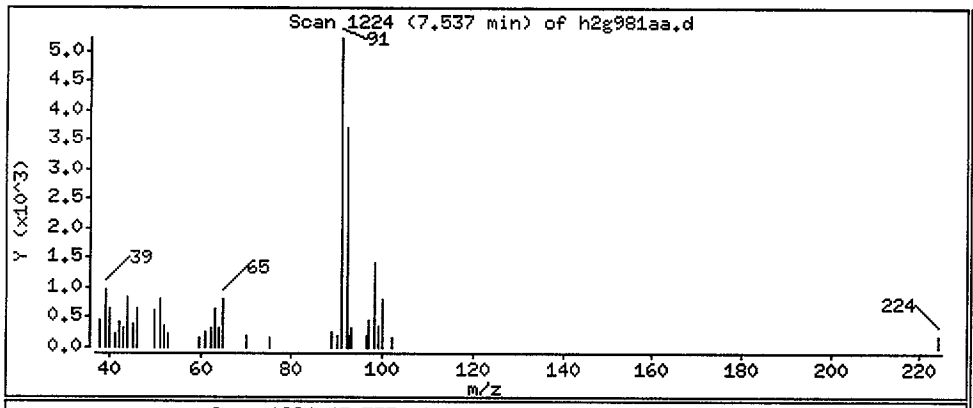
Operator: 22980

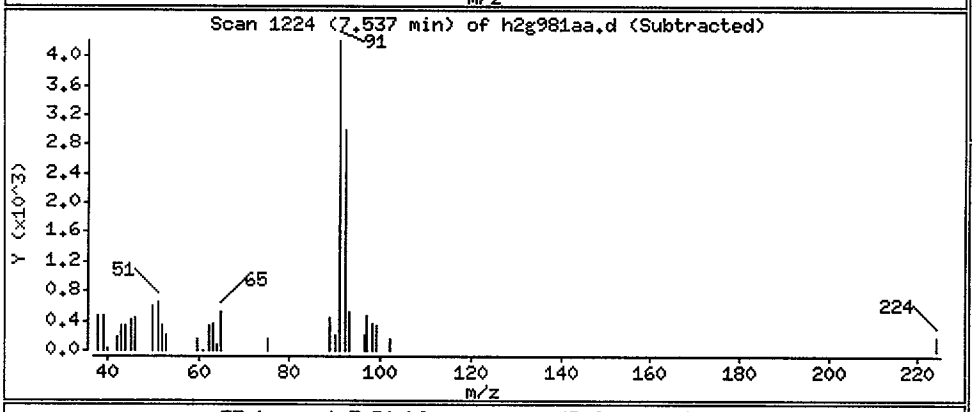
Column phase: J+W 624

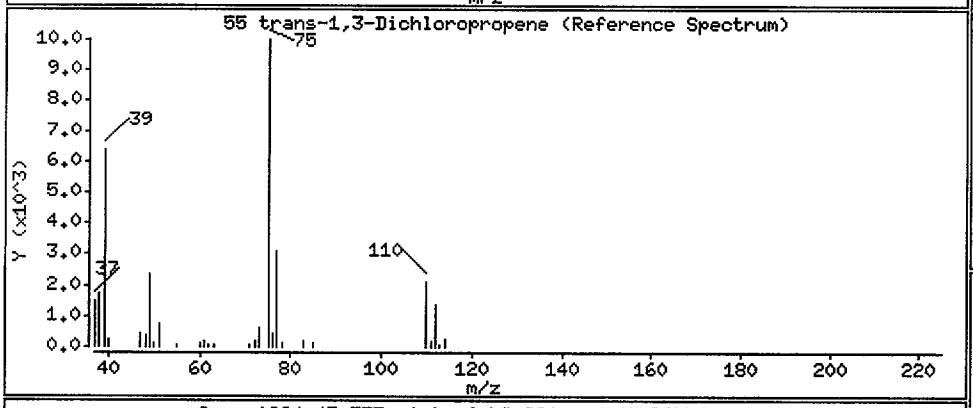
Column diameter: 0.18

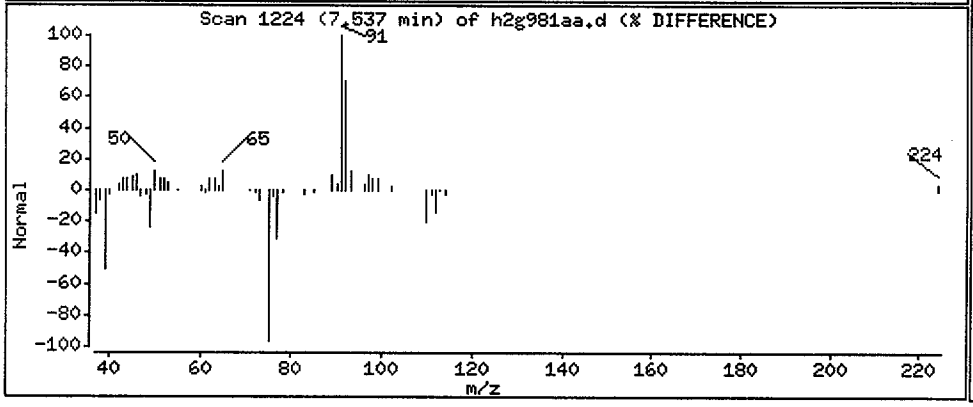
55 trans-1,3-Dichloropropene

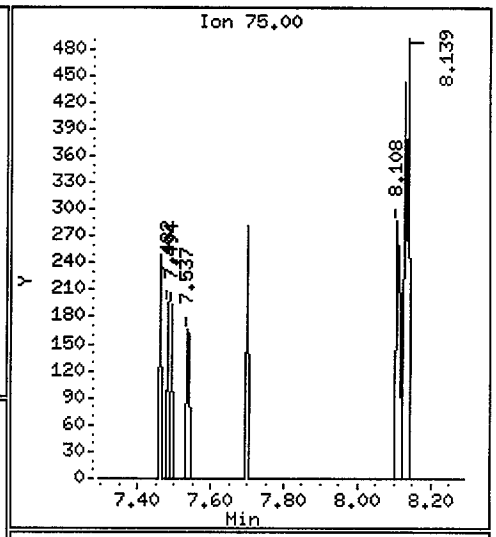
Concentration: 0.015832 ug

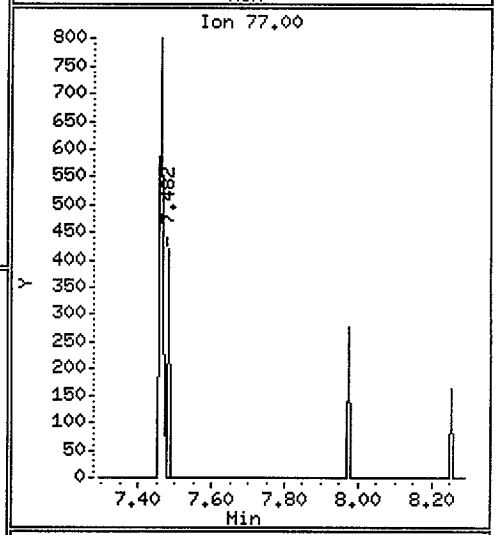


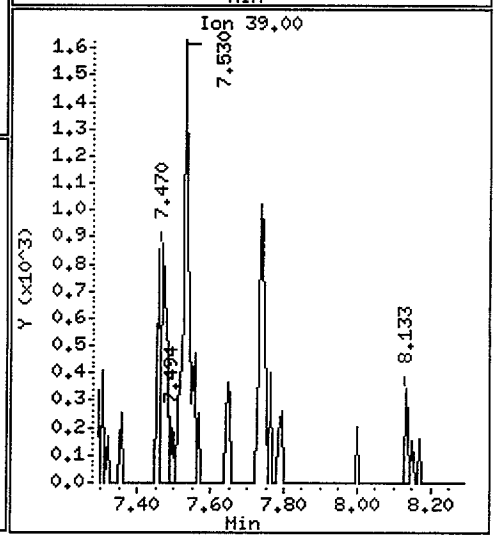












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

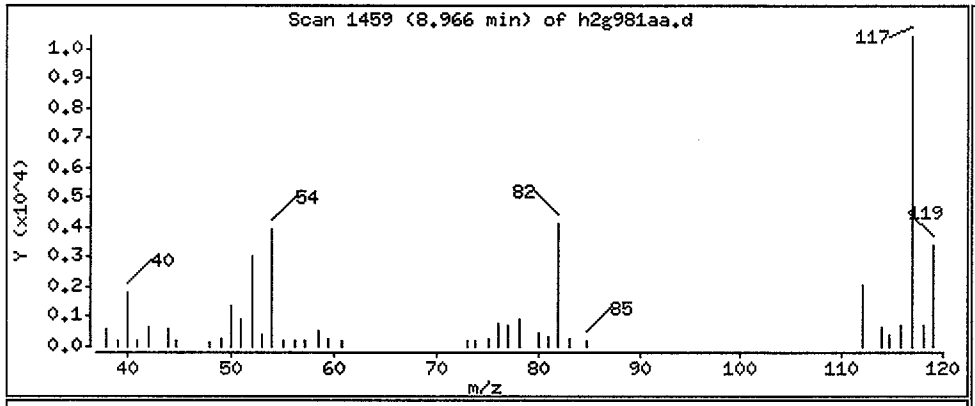
Operator: 22980

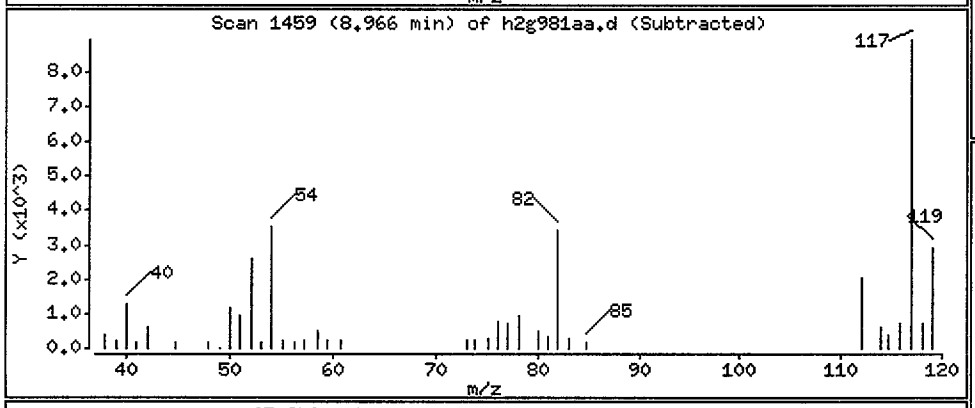
Column phase: J+W 624

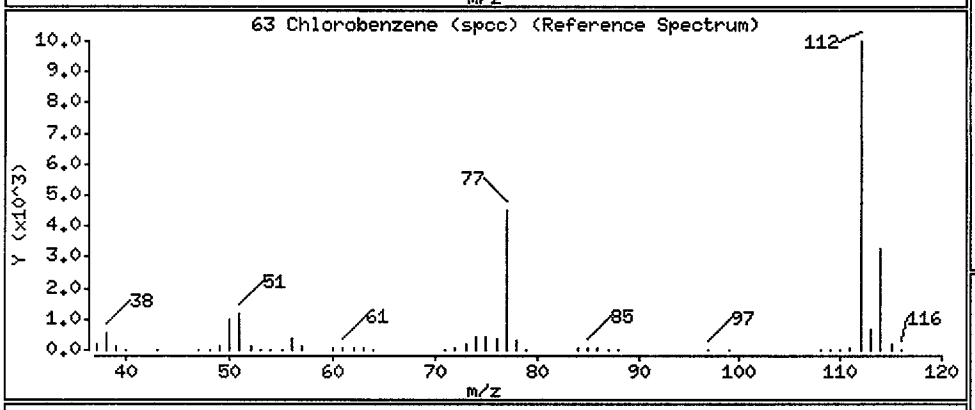
Column diameter: 0.18

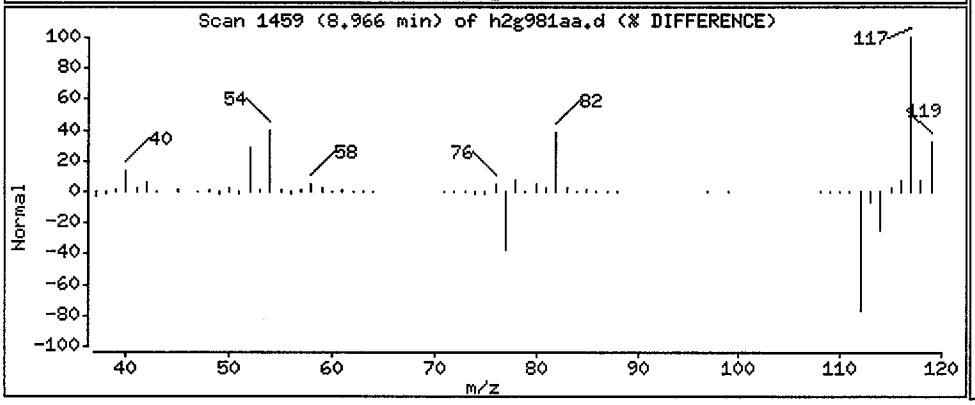
63 Chlorobenzene (spcc)

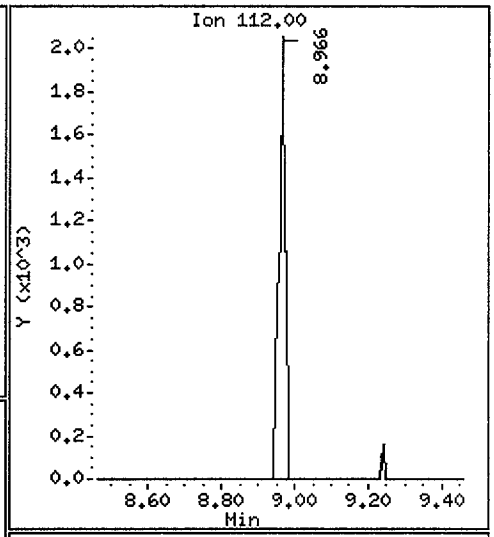
Concentration: 0.0011650 ug

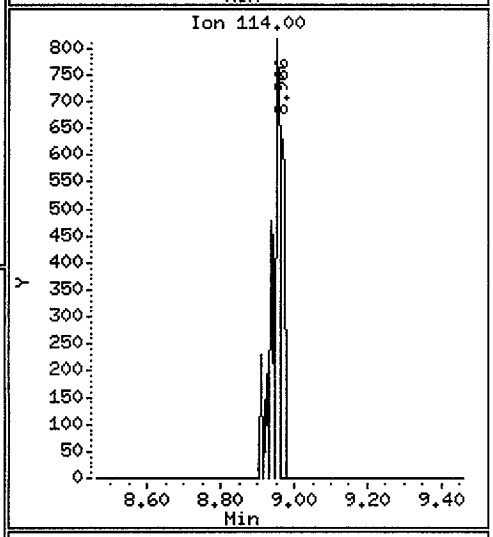


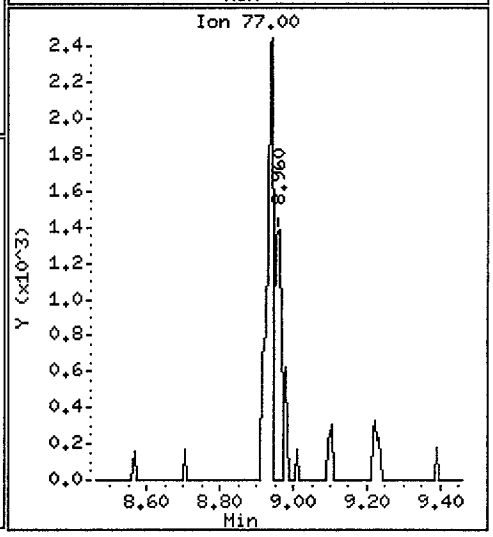












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

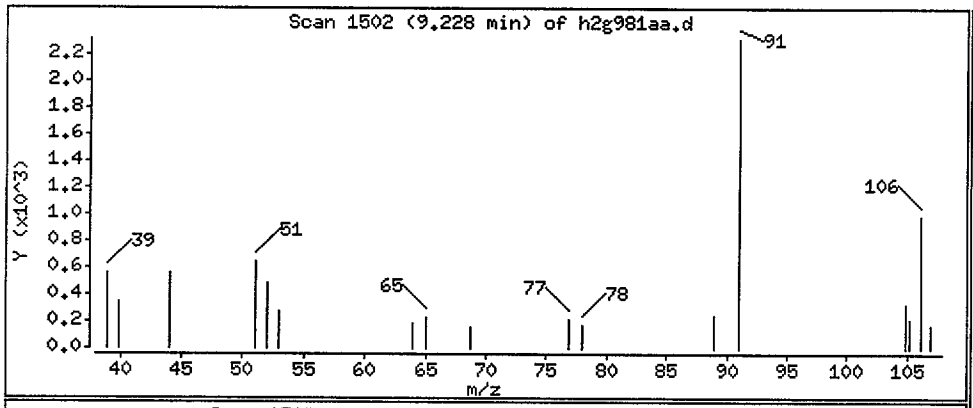
Operator: 22980

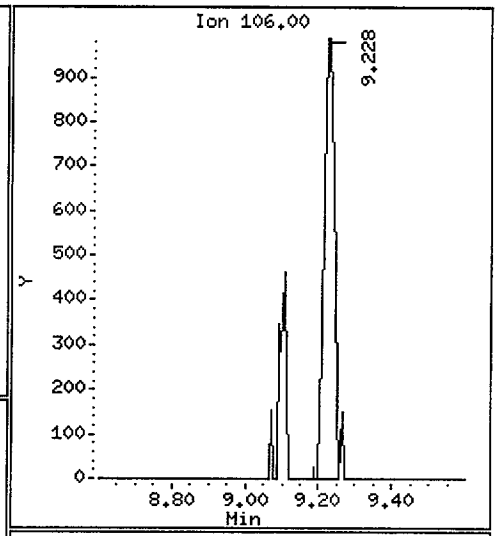
Column phase: J+W 624

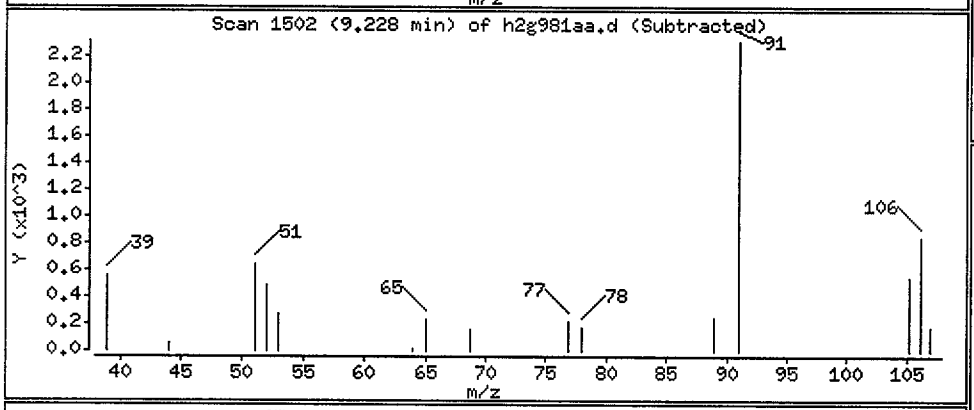
Column diameter: 0.18

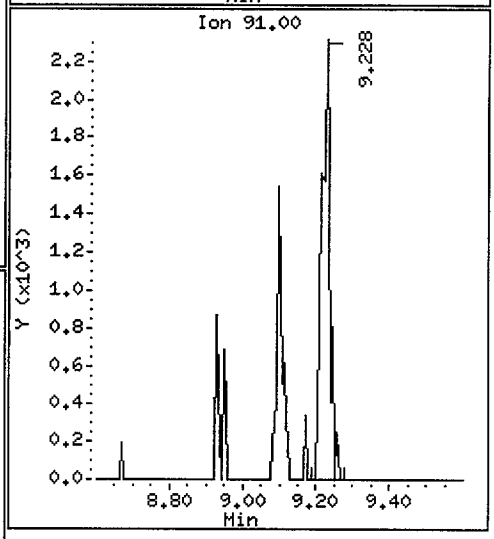
65 Ethylbenzene (ccc)

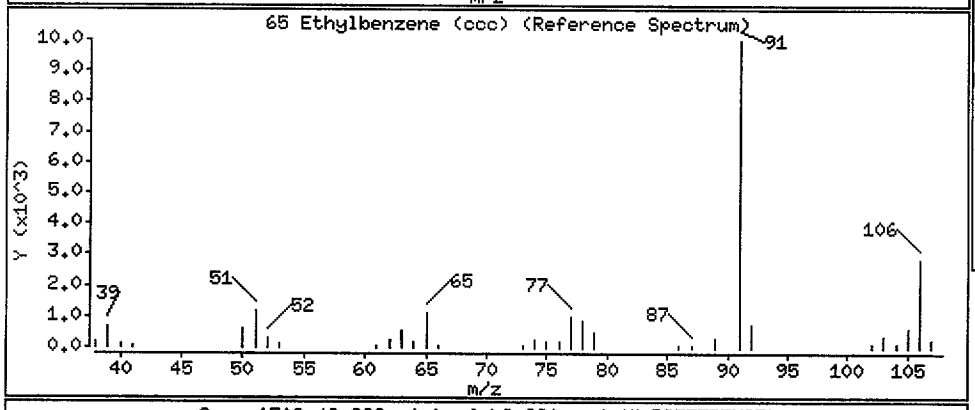
Concentration: 0.0014195 ug

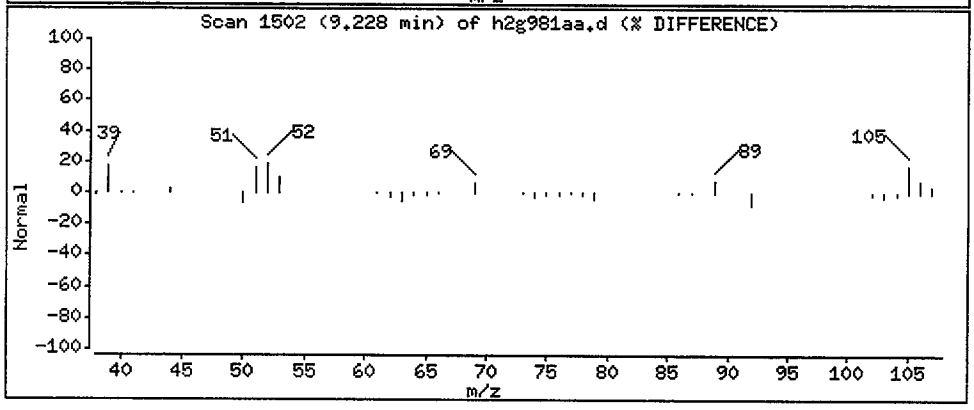












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

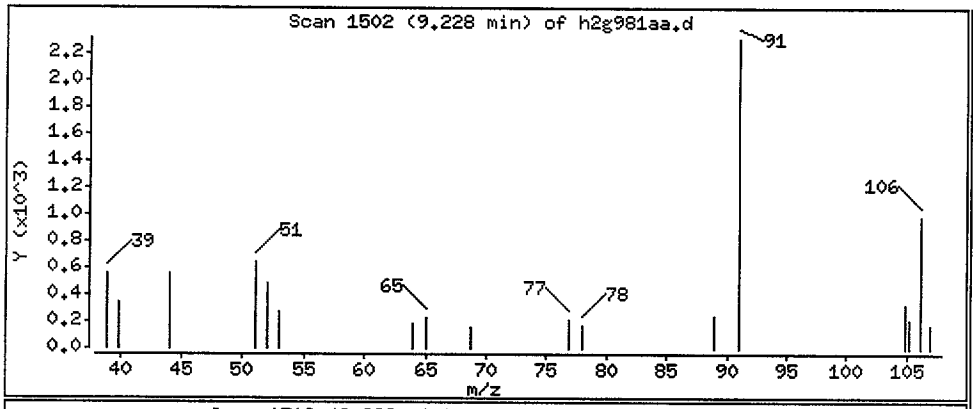
Operator: 22980

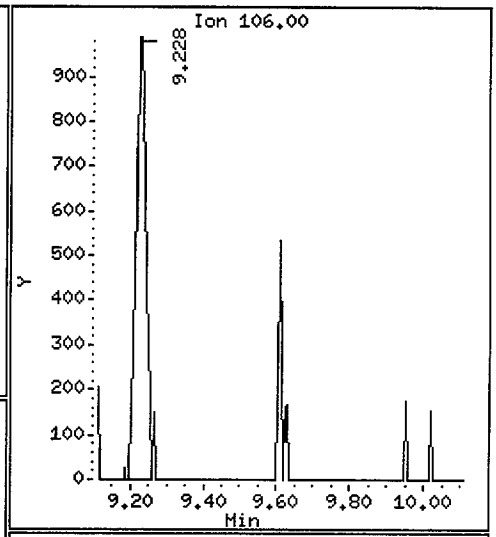
Column phase: J+W 624

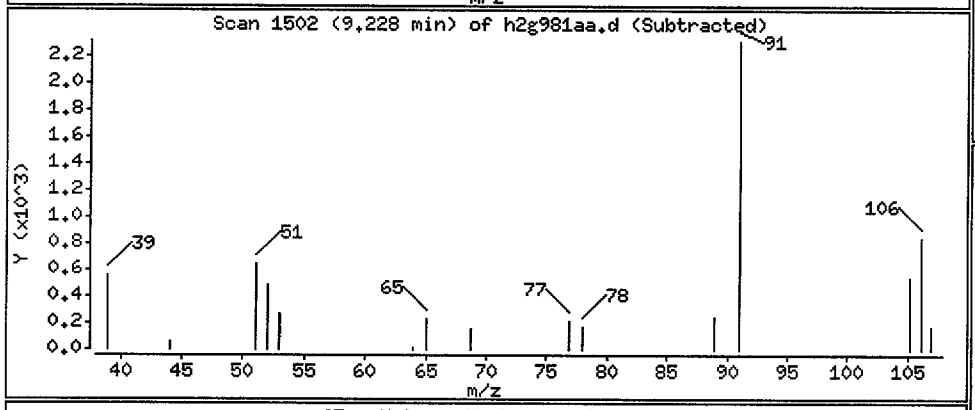
Column diameter: 0.18

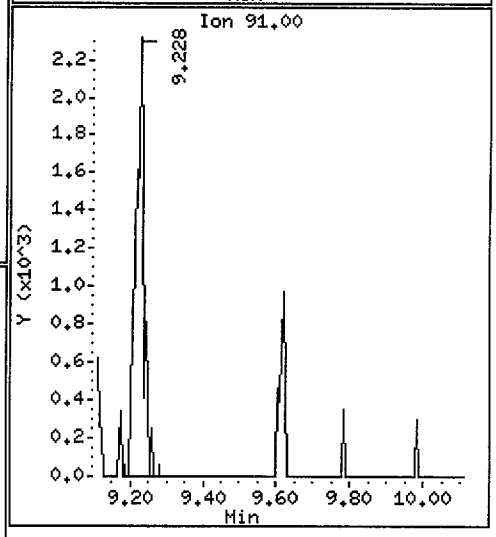
67 o-Xylene

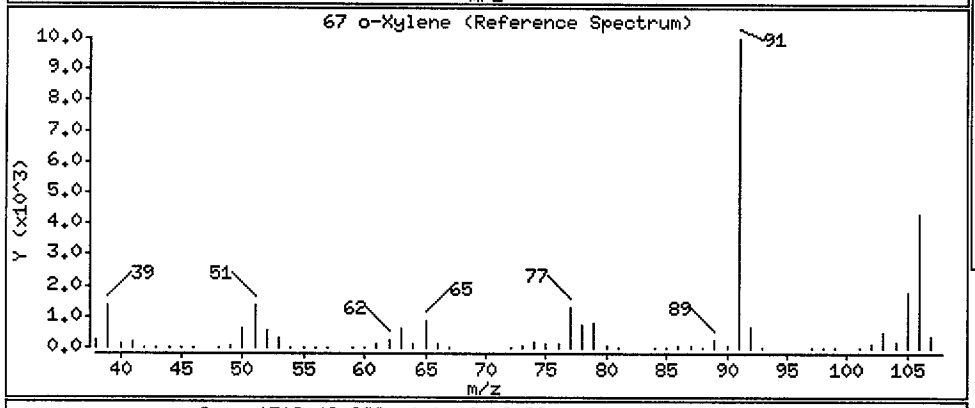
Concentration: 0.0013294 ug

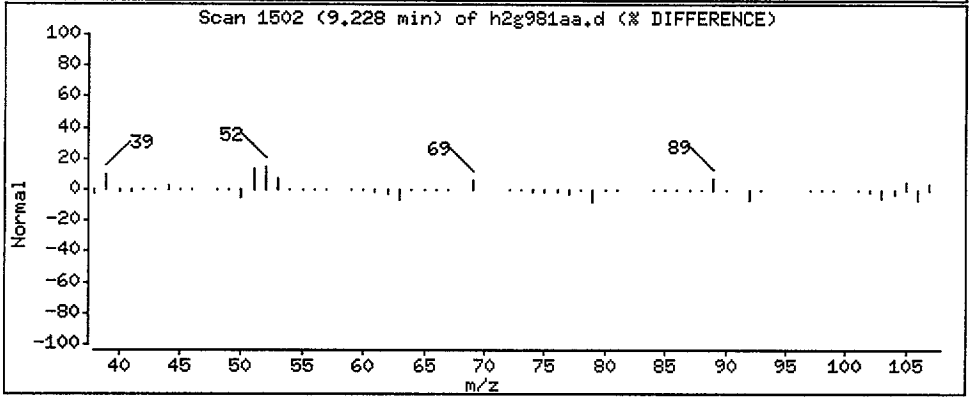












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

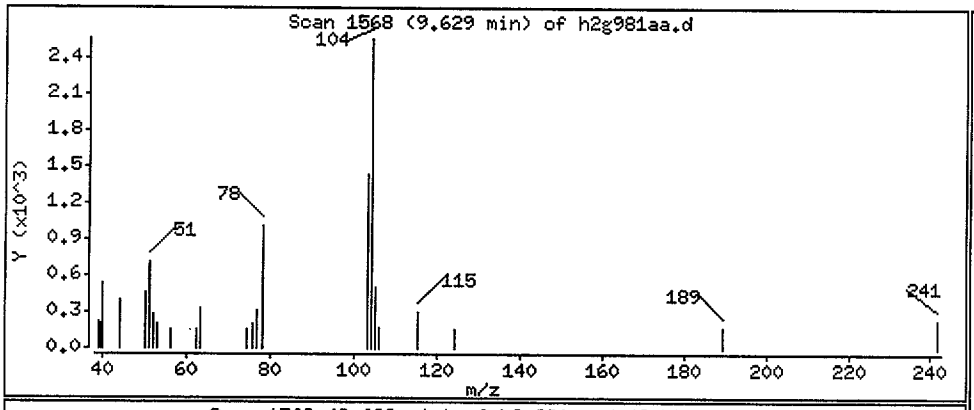
Operator: 22980

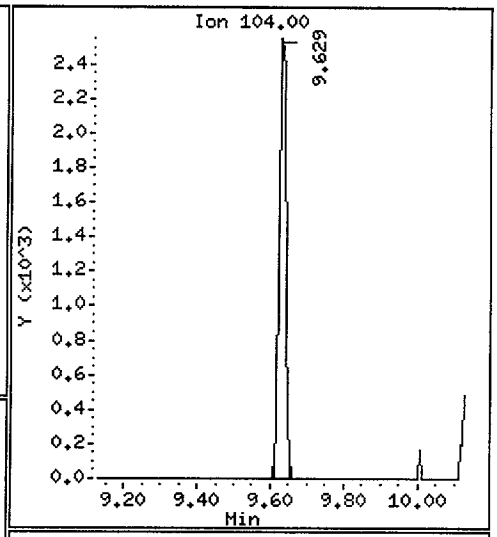
Column phase: J+W 624

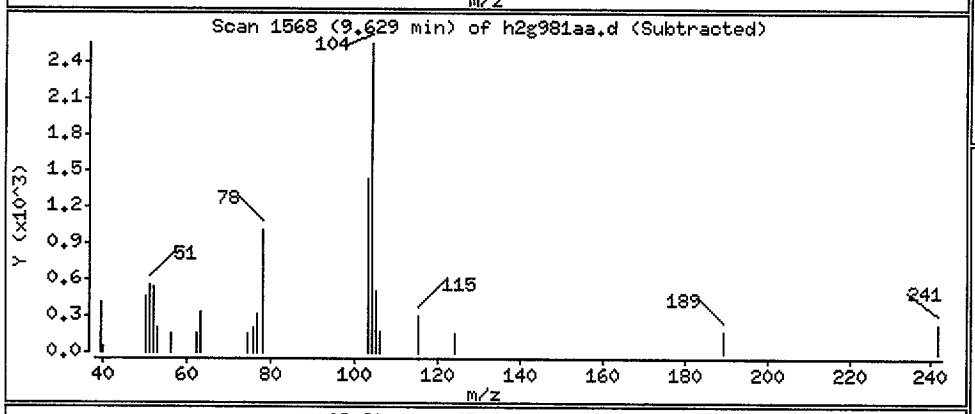
Column diameter: 0.18

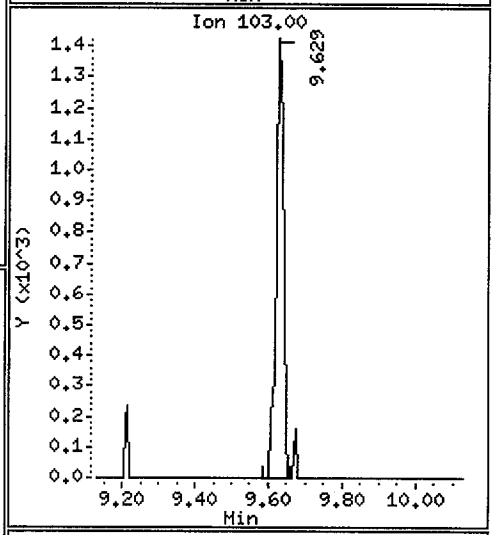
68 Styrene

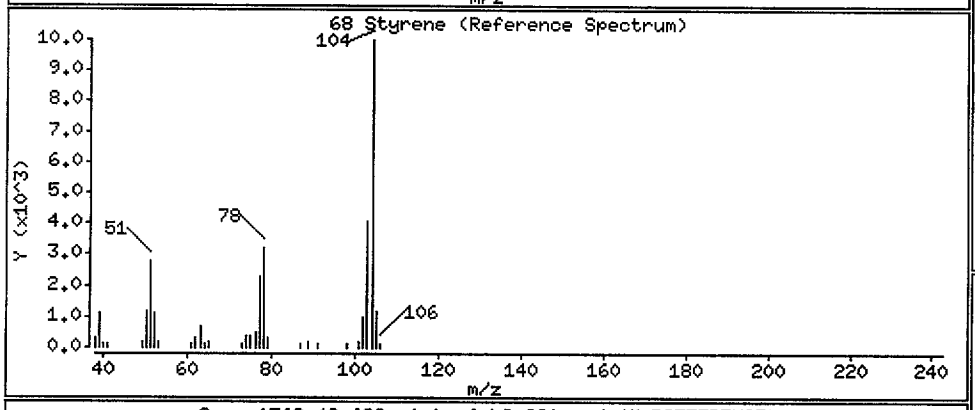
Concentration: 0.0014350 ug

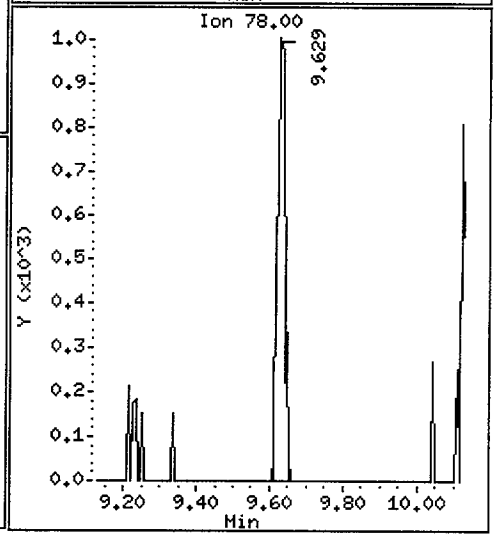


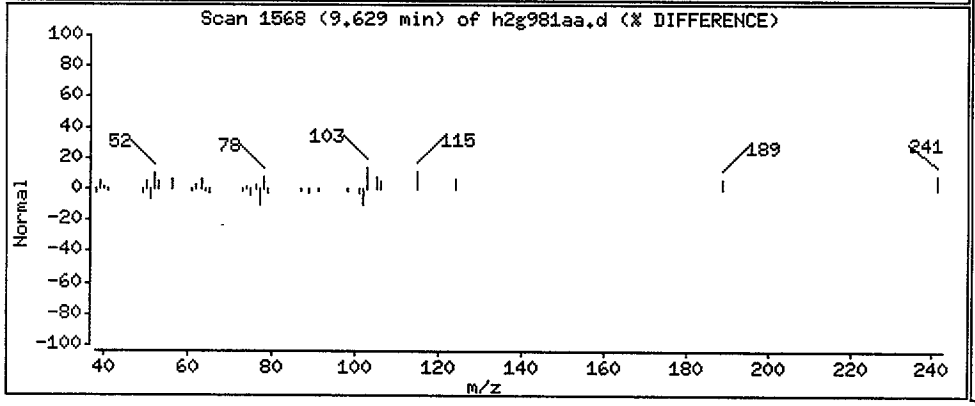












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

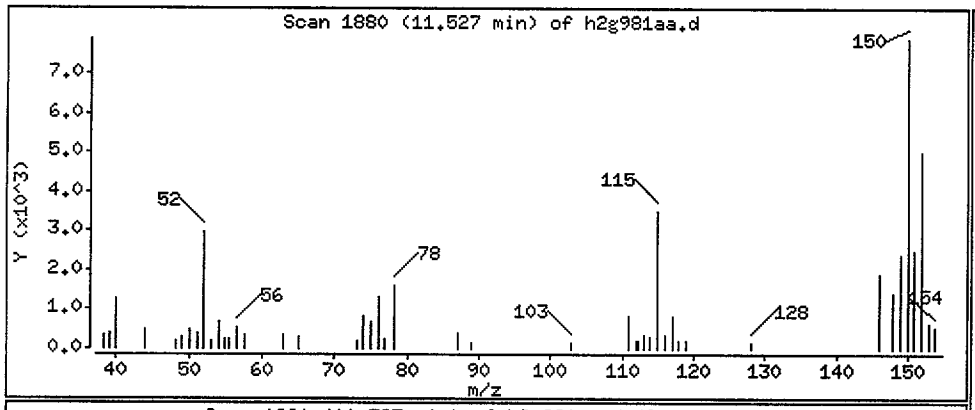
Operator: 22980

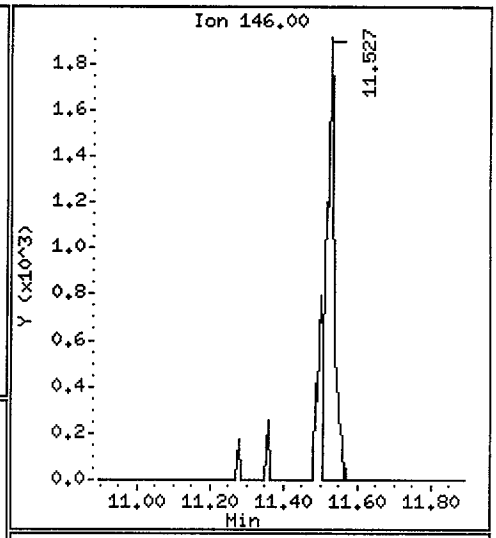
Column phase: J+W 624

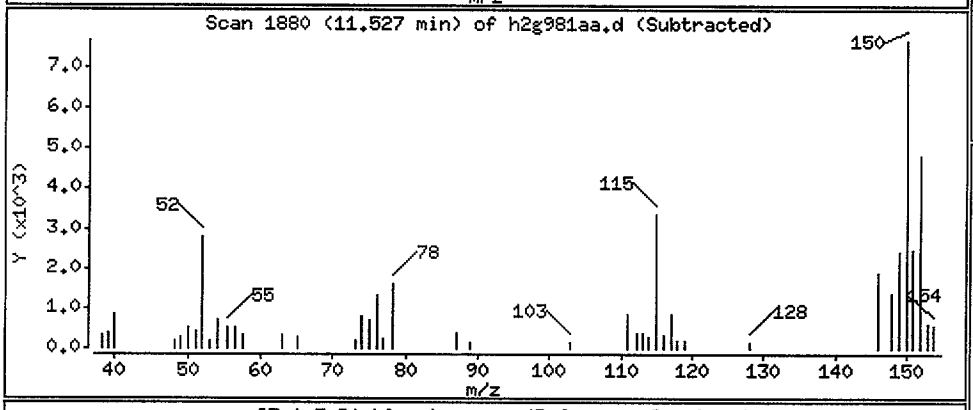
Column diameter: 0.18

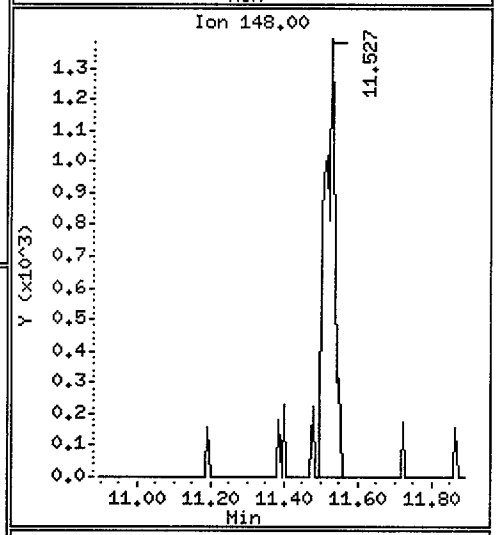
83 1,3-Dichlorobenzene

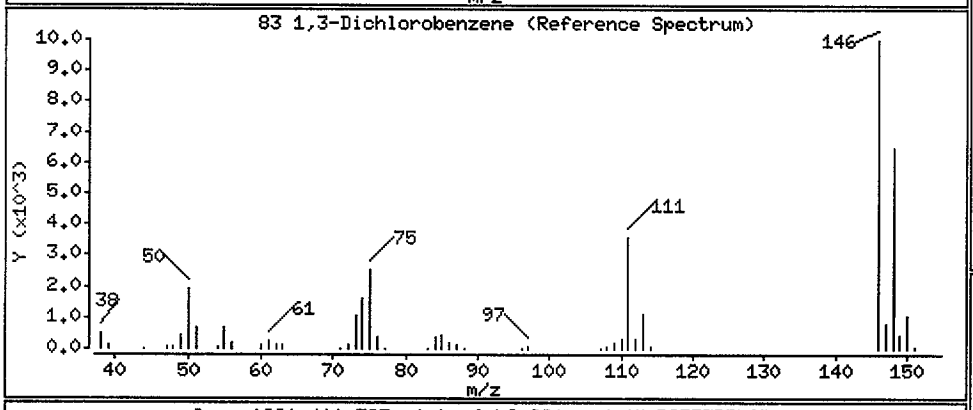
Concentration: 0.0017849 ug

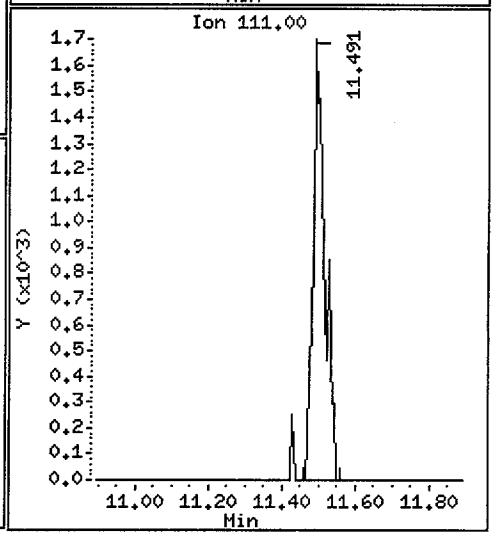


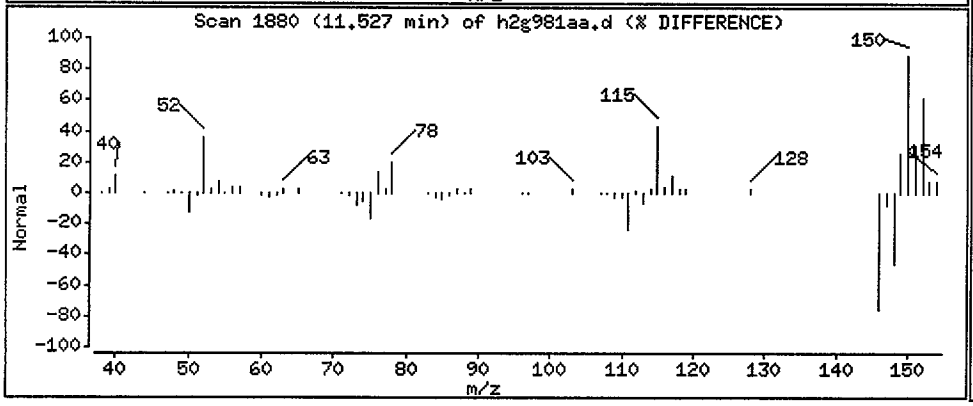












Data File: /chem/gcms/mz.i/Z040706.b/h2g981aa.d

Date : 07-APR-2006 16:20

Client ID: G-3011-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G981AA,1,0,,

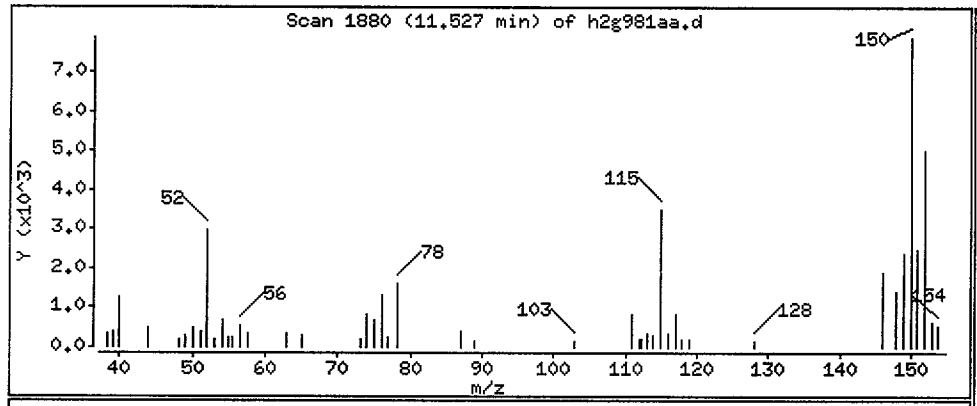
Operator: 22980

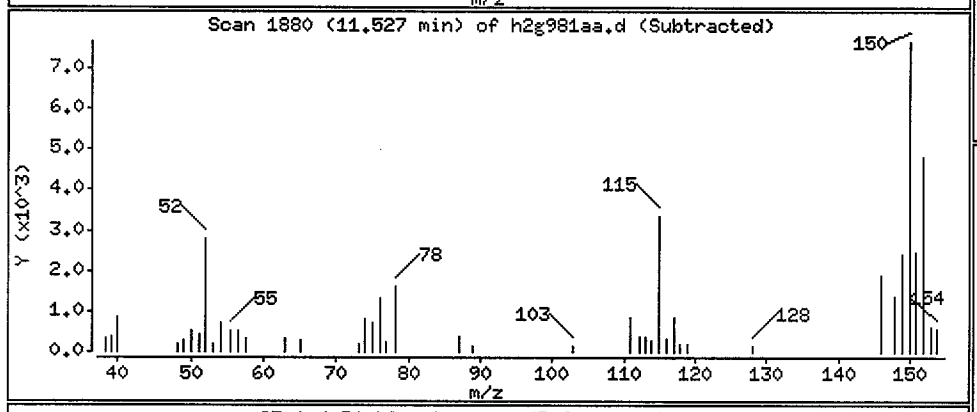
Column phase: J+W 624

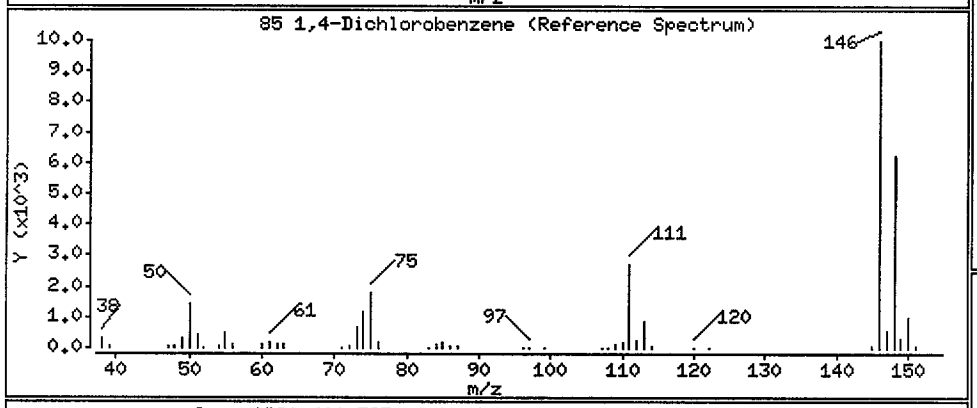
Column diameter: 0.18

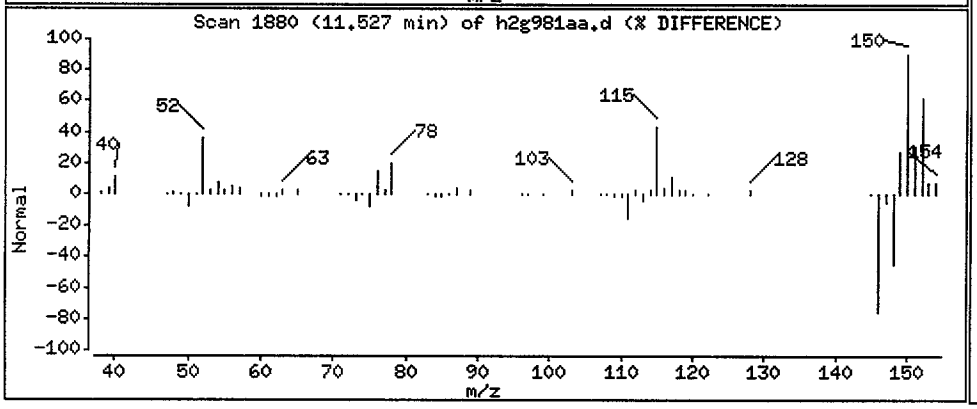
85 1,4-Dichlorobenzene

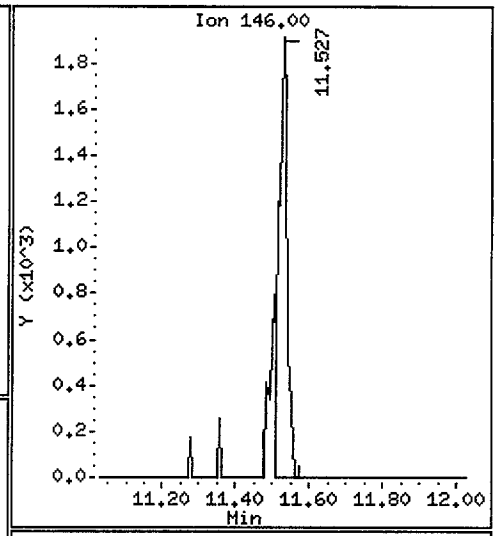
Concentration: 0.0019189 ug

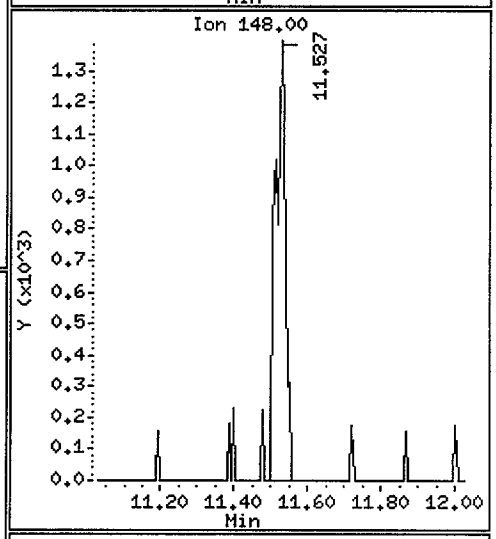


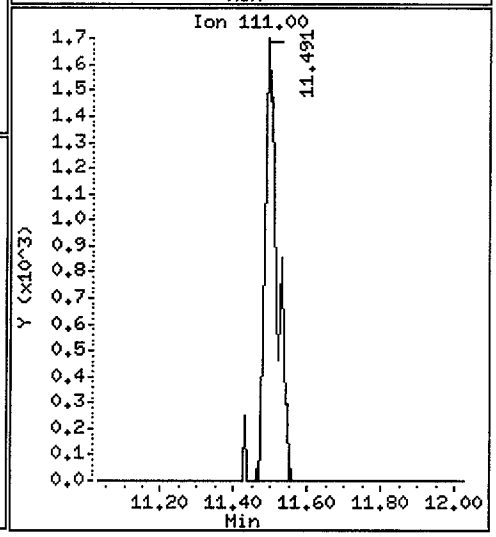












Data File: /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Report Date: 14-Apr-2006 16:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2g981aa.d
Lab Smp Id: H2G981AA Client Smp ID: G-3011-R2-VOST PAIR
Inj Date : 07-APR-2006 16:20
Operator : 22980 Inst ID: mz.i
Smp Info : H2G981AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.35**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.028**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.039**	**0.010**	**ug**	**0.0016**
Bromoform	**0.17**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.014**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0049 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.0**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.11**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	**0.0023 J**	**0.010**	**ug**	**0.0023**
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.010 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.021**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0061 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0068 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0068 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	68	(50 - 134)
Toluene-d8	66	(57 - 127)
Bromofluorobenzene	54	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-018 **Work Order #:** H2G991AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2g991aa.d
Lab Smp Id: H2G991AA Client Smp ID: G-3012-R2-VOST PAIR
Inj Date : 07-APR-2006 14:17
Operator : 22980 Inst ID: mx.i
Smp Info : H2G991AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1160873	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	224887	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.748	10.746	(1.000)	245735	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.273	(0.880)	134640	6.82162	0.17054
$ 5 1,2-Dichloroethane-d4	65	4.549	4.553	(0.937)	105279	6.84303	0.17108
$ 6 Toluene-d8	98	6.253	6.250	(0.824)	727200	6.60458	0.16511
$ 7 4-Bromofluorobenzene	95	8.875	8.872	(0.826)	157584	5.40858	0.13521
M 9 Xylene (total)	106				29561	0.58740	0.014685
11 Chloromethane (spcc)	50	1.252	1.262	(0.258)	3840	0.07100	0.0017751
21 Acetone	43	2.371	2.381	(0.489)	23329	14.1889	0.35472
23 Carbon Disulfide	76	2.499	2.497	(0.515)	50977	0.57620	0.014405
26 Methylene Chloride	84	2.742	2.746	(0.565)	7693	0.42868	0.010717
33 *Vinyl Acetate	86	3.247	3.421	(0.669)	1877	1.42210	~~0.035552~~
36 2-Butanone	43	3.874	3.871	(0.798)	7165	2.79388	~~0.069847~~
38 *THF	42	4.099	4.109	(0.845)	1452	0.92411	0.023103
39 Chloroform (ccc)	83	4.136	4.139	(0.852)	47914	1.08596	0.027149
41 Carbon Tetrachloride	117	4.434	4.437	(0.914)	8193	0.19662	0.0049154
42 1,1-Dichloropropene	75	4.610	4.437	(0.950)	2713	0.05903	~~0.0014757~~
43 Benzene	78	4.610	4.607	(0.950)	130606	1.11090	0.027772
44 1,2-Dichloroethane	62	4.604	4.620	(0.949)	1266	0.06400	~~0.0016000~~

4/19/06

18

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
45 Trichloroethene	130	5.170	5.173	(1.065)	7654	0.24263	0.0060656
48 Dibromomethane	93	5.608	5.459	(1.155)	1029	0.15641	~~0.0039102~~
49 Bromodichloromethane	83	5.608	5.605	(1.155)	38901	1.57936	0.039484
52 4-Methyl-2-pentanone	43	6.253	6.147	(1.288)	6011	0.97881	~~0.024470~~
53 Toluene (ccc)	91	6.307	6.311	(0.832)	108427	0.82311	0.020578
54 trans-1,3-Dichloropropene	75	6.721	6.506	(0.886)	10314	0.44675	~~0.011169~~
56 1,1,2-Trichloroethane	97	6.818	6.670	(0.899)	1332	0.12803	~~0.0032008~~
57 Tetrachloroethene	164	6.818	6.816	(0.899)	160681	5.67694	0.14192
59 2-Hexanone	43	6.721	6.907	(0.886)	3010	0.68399	~~0.017100~~
60 Chlorodibromomethane	129	7.031	7.035	(0.927)	58069	4.50412	0.11260
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	5390583	79.7163	1.9929
64 Ethylbenzene (ccc)	106	7.713	7.716	(1.017)	2095	0.04506	0.0011264
65 m&p-Xylene	106	7.834	7.838	(1.033)	14814	0.27181	0.0067952
66 o-Xylene	106	7.834	8.251	(1.033)	14746	0.31559	~~0.0078898~~
68 Bromoform (spcc)	173	8.461	8.464	(1.115)	41811	6.71022	0.16776
69 Isopropylbenzene	105	8.686	8.689	(1.145)	13723	0.09158	0.0022894
73 1,2,3-Trichloropropane	110	9.240	9.115	(0.860)	2936	1.27986	~~0.031996~~
80 1,2,4-Trimethylbenzene	105	10.085	10.125	(0.938)	26561	0.33502	0.0083754
90 Napthalene	128	13.948	13.946	(1.298)	4276	0.40110	0.010027

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2g991aa.d
Lab Smp Id: H2G991AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3012-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1160873	1.02
2 Chlorobenzene-d5	214194	107097	428388	224887	4.99
3 1,4 Dichlorobenze	242601	121300	485202	245735	1.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.02

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.

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2G991AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3012-R2-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

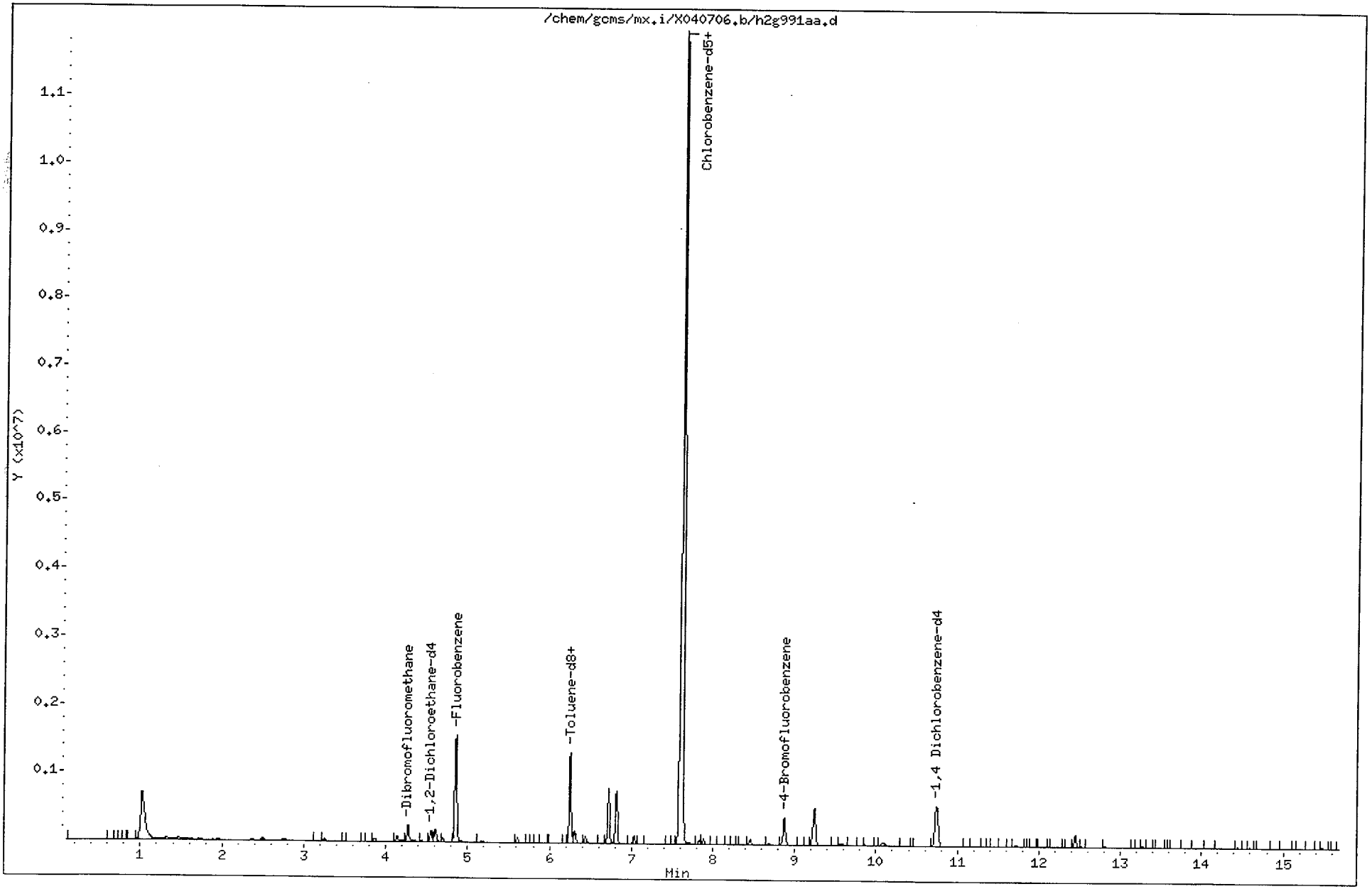
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.17054	68.22	50-150
$ 5 1,2-Dichloroethane	0.25000	0.17108	68.43	50-150
$ 6 Toluene-d8	0.25000	0.16511	66.05	50-150
$ 7 4-Bromofluorobenze	0.25000	0.13521	54.09	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d
Date : 07-APR-2006 14:17
Client ID: G-3012-R2-VOST PAIR
Sample Info: H2G991AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

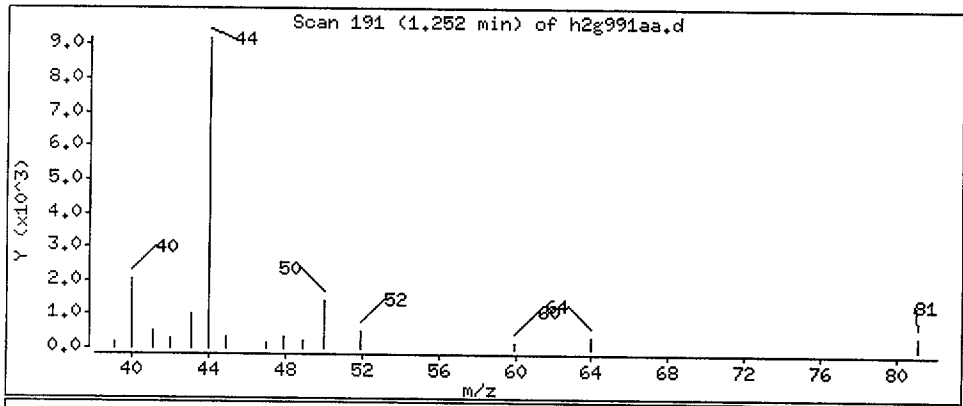
Operator: 22980

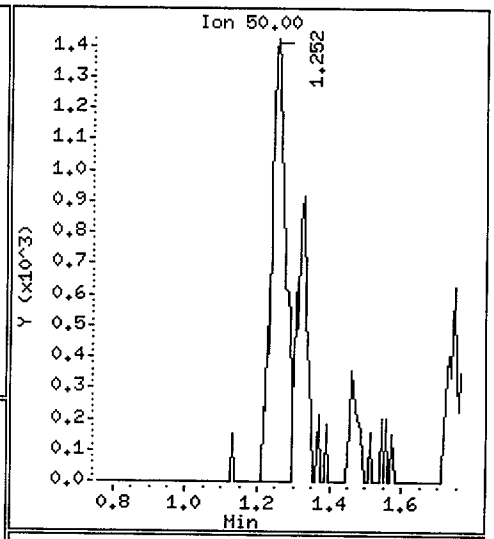
Column phase: J+W 624

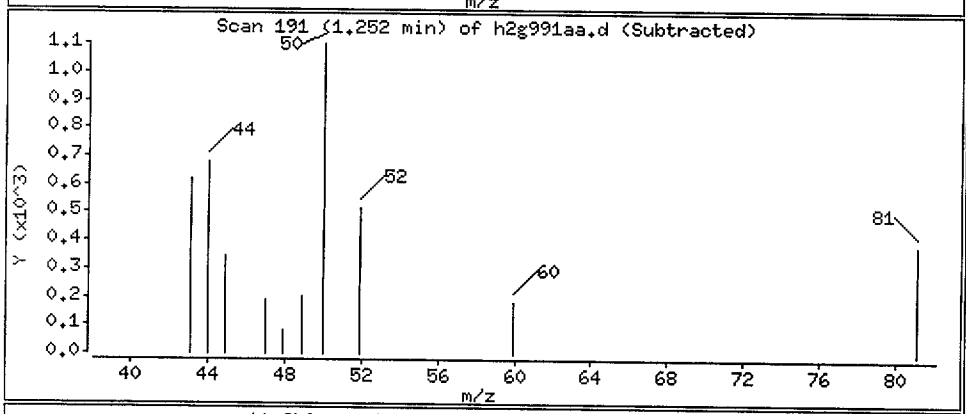
Column diameter: 0.18

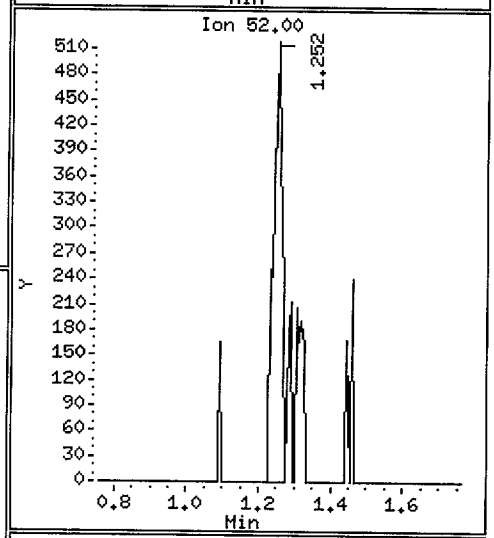
11 Chloromethane (spcc)

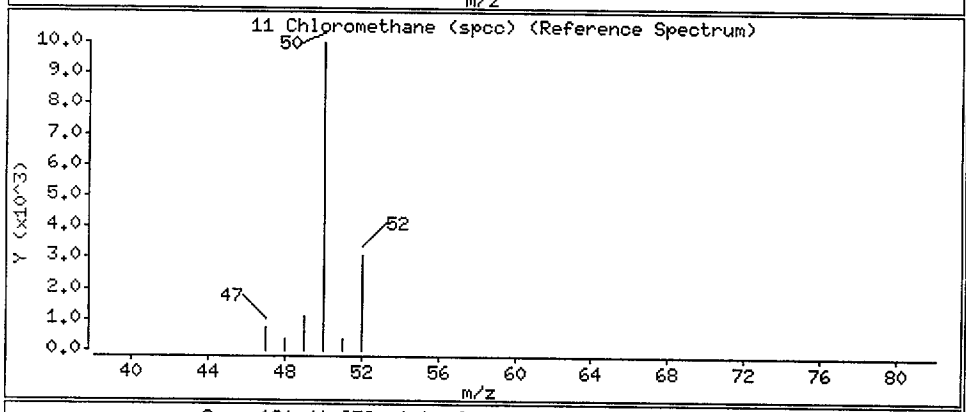
Concentration: 0.0017751 ug

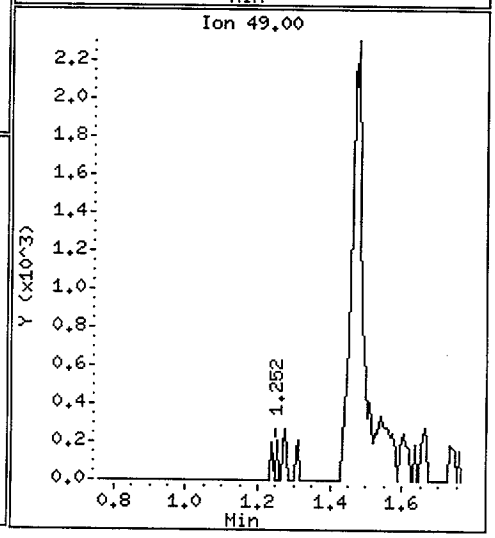


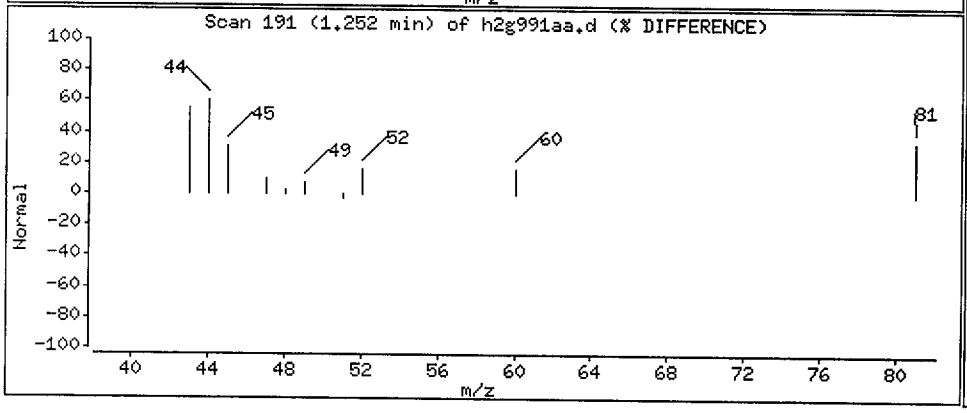












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

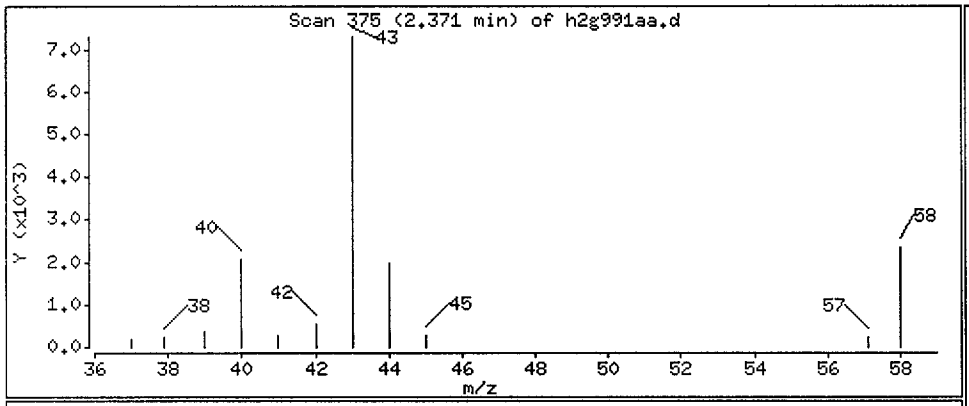
Operator: 22980

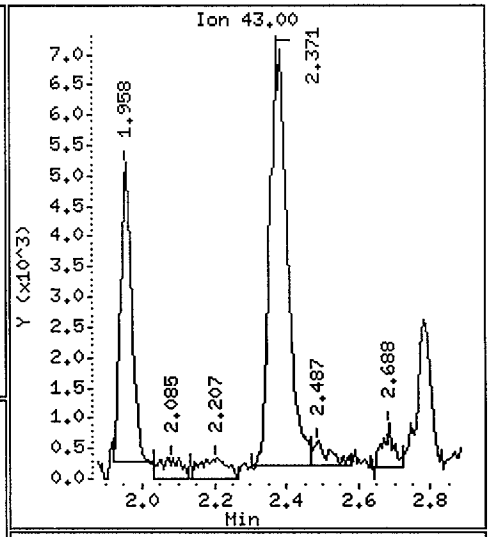
Column phase: J+W 624

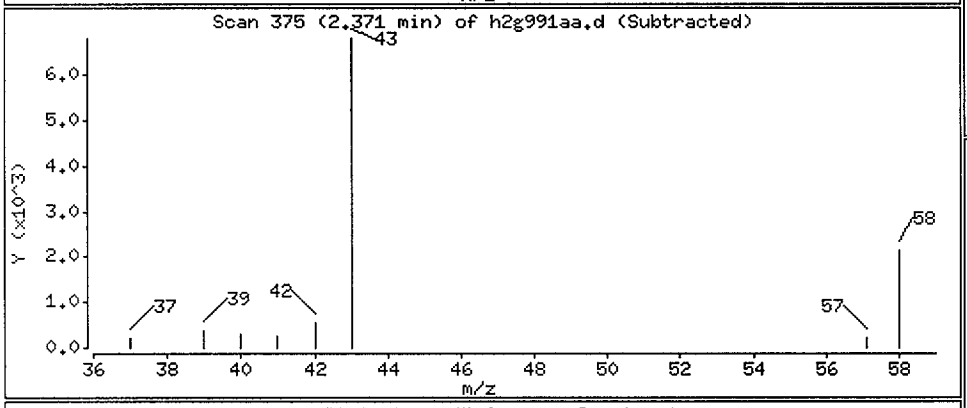
Column diameter: 0.18

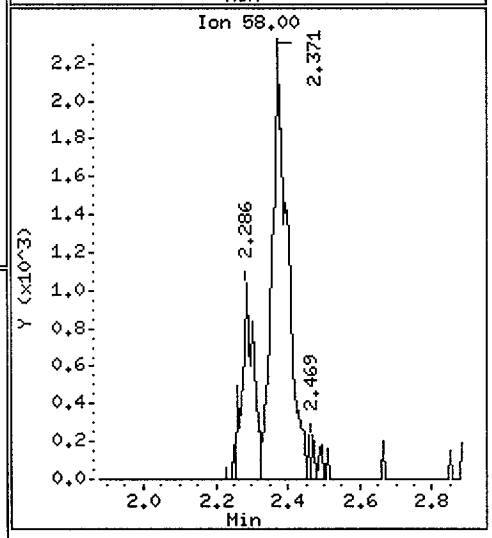
21 Acetone

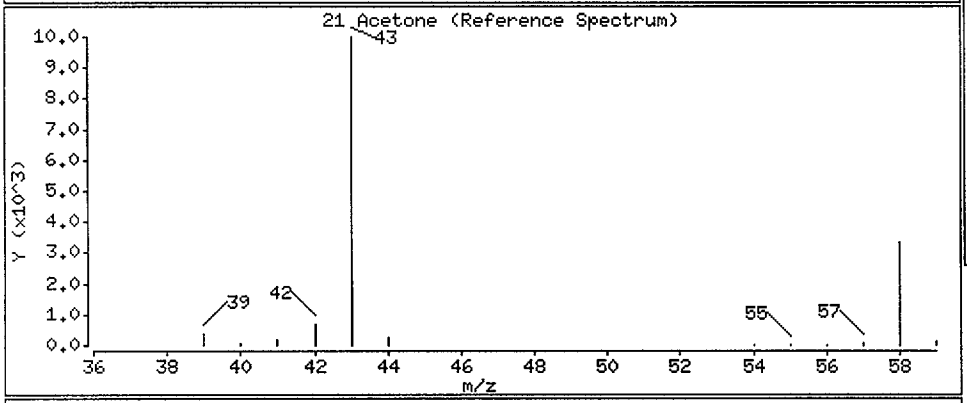
Concentration: 0.35472 ug

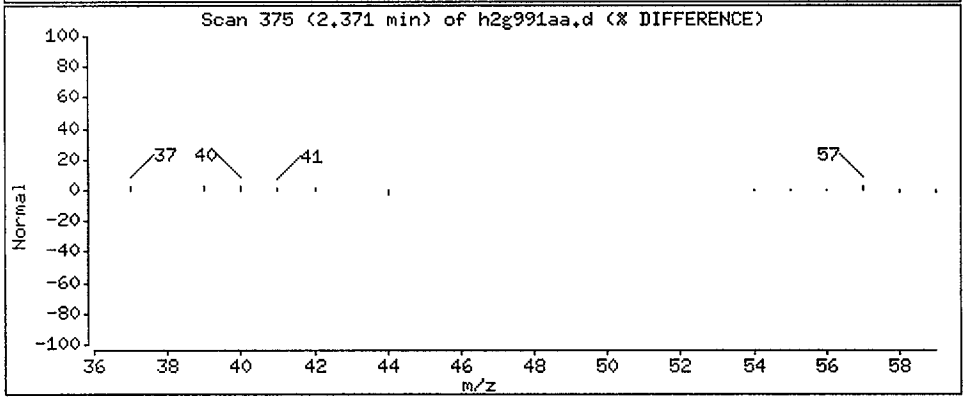












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

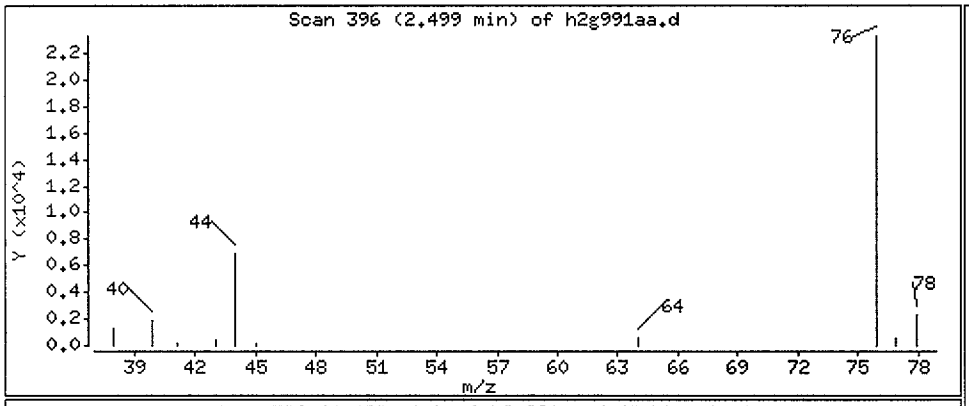
Operator: 22980

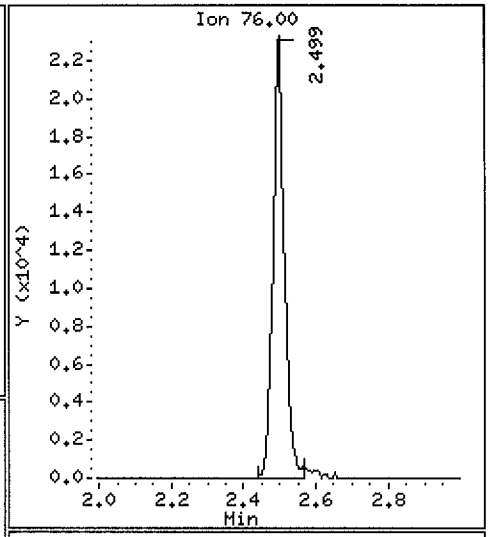
Column phase: J+W 624

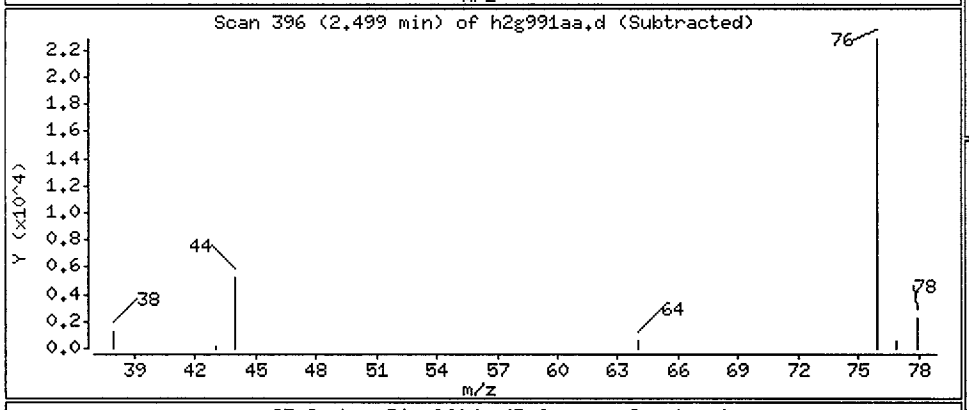
Column diameter: 0.18

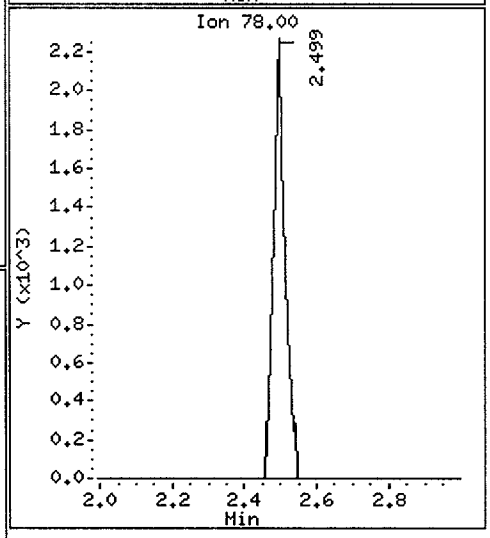
23 Carbon Disulfide

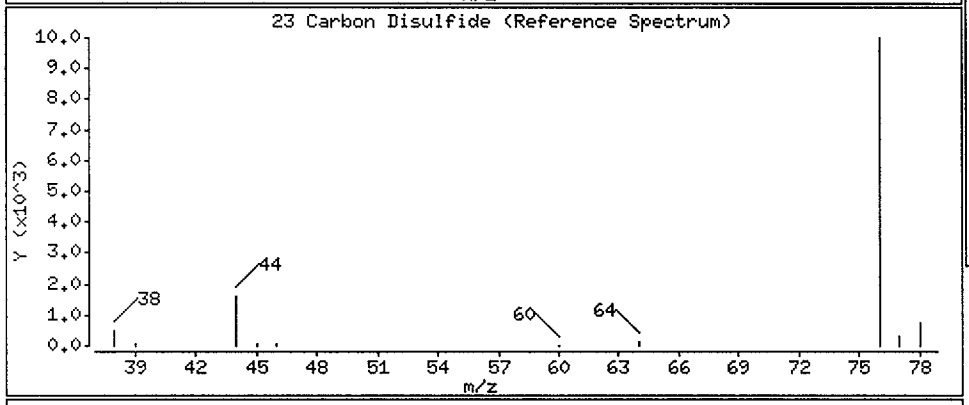
Concentration: 0.014405 ug

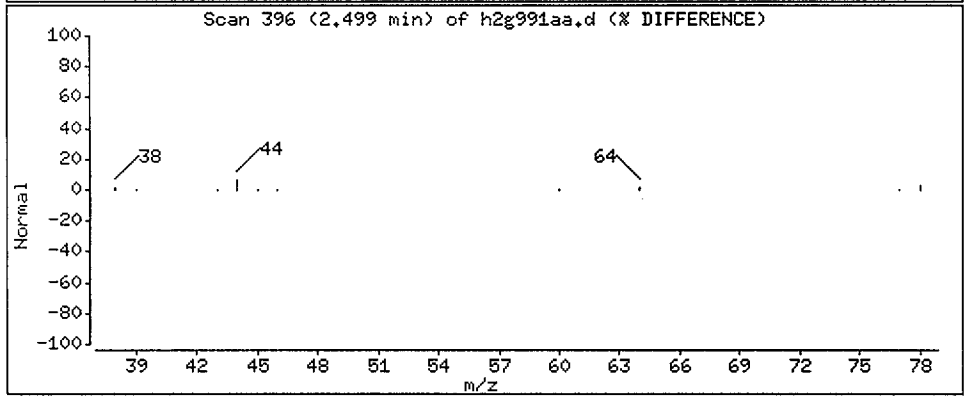












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

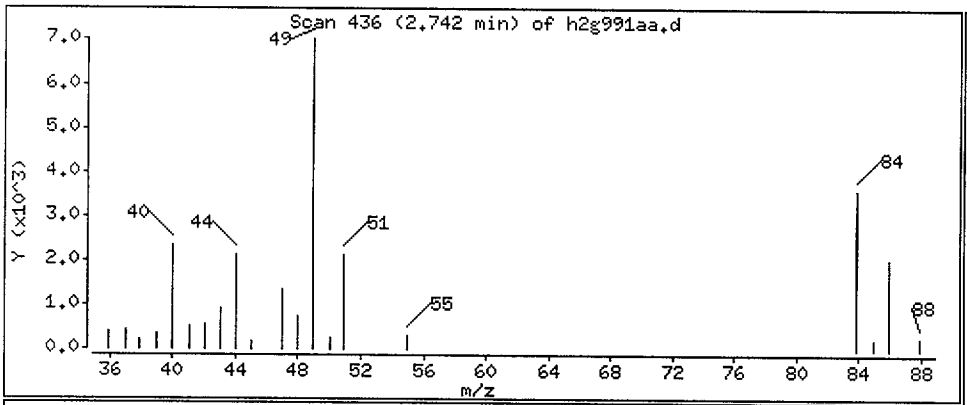
Operator: 22980

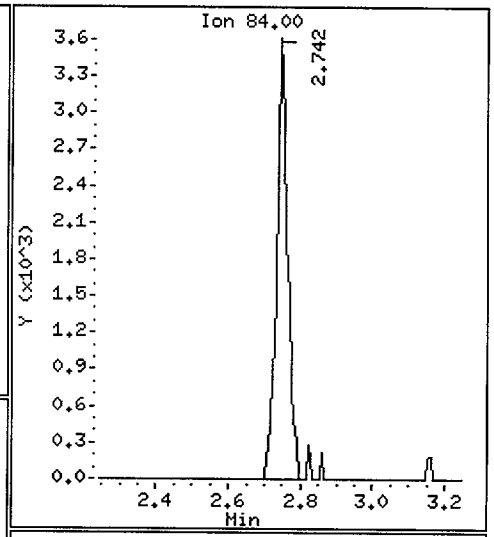
Column phase: J+W 624

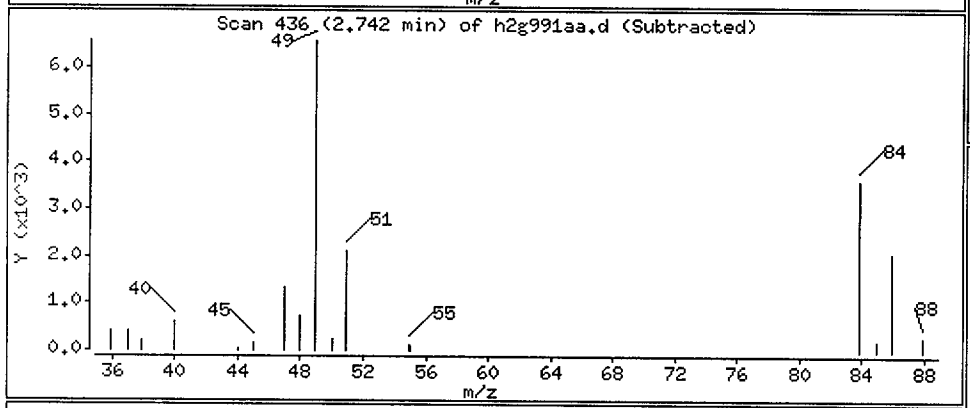
Column diameter: 0.18

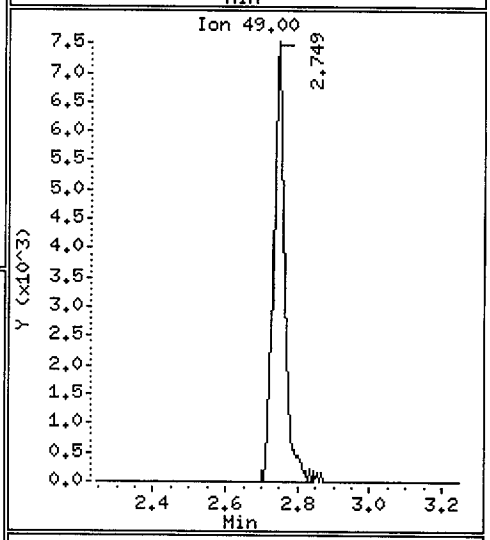
26 Methylene Chloride

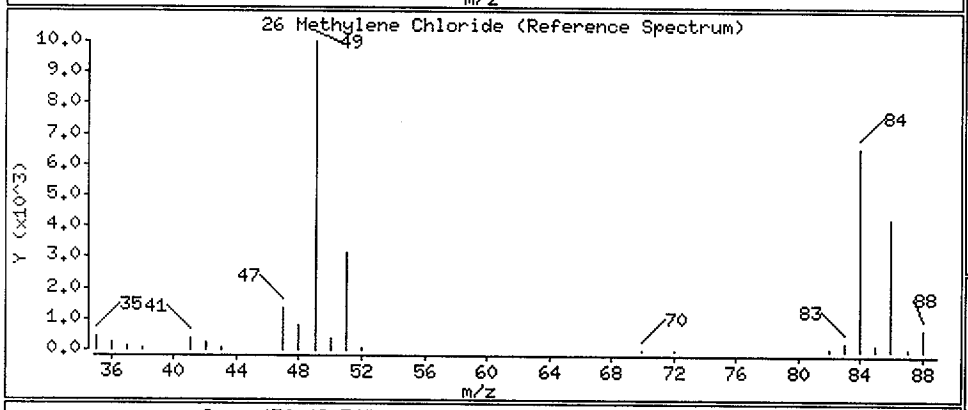
Concentration: 0.010717 ug

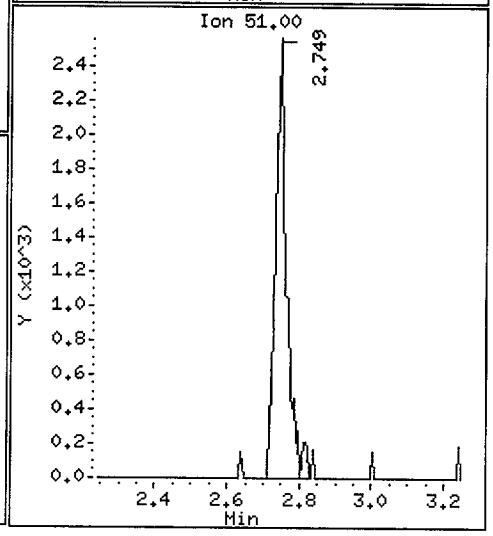


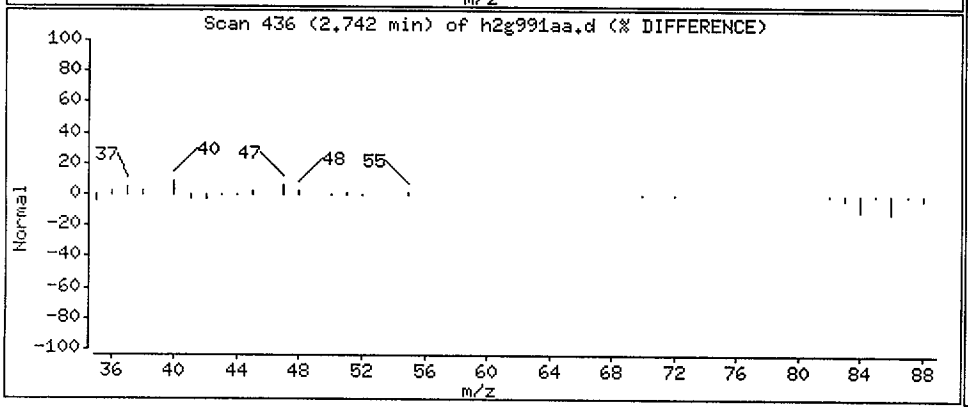












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

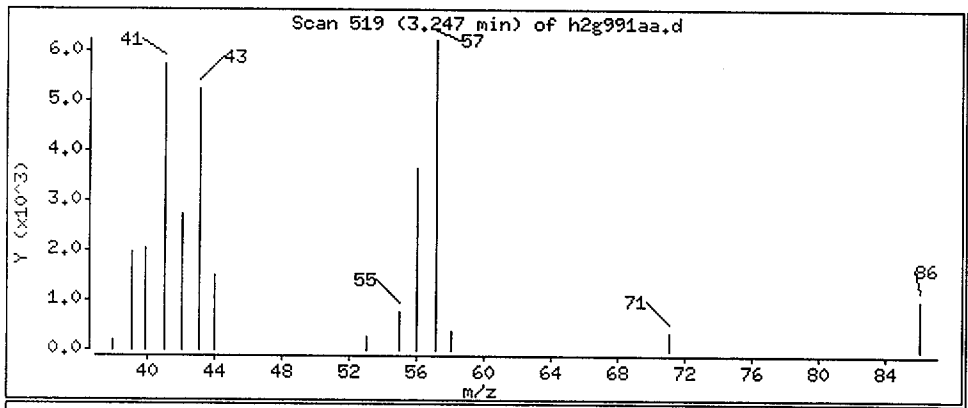
Operator: 22980

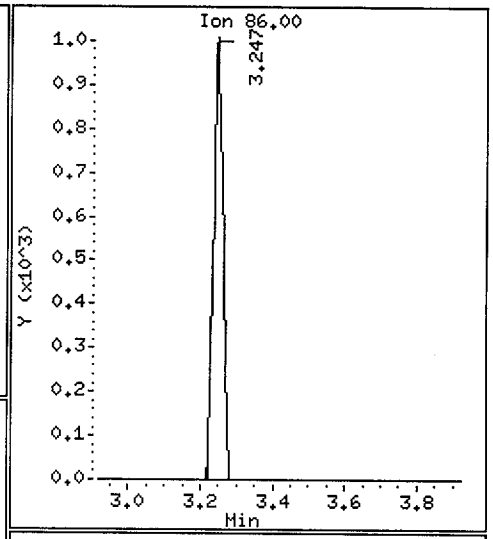
Column phase: J+W 624

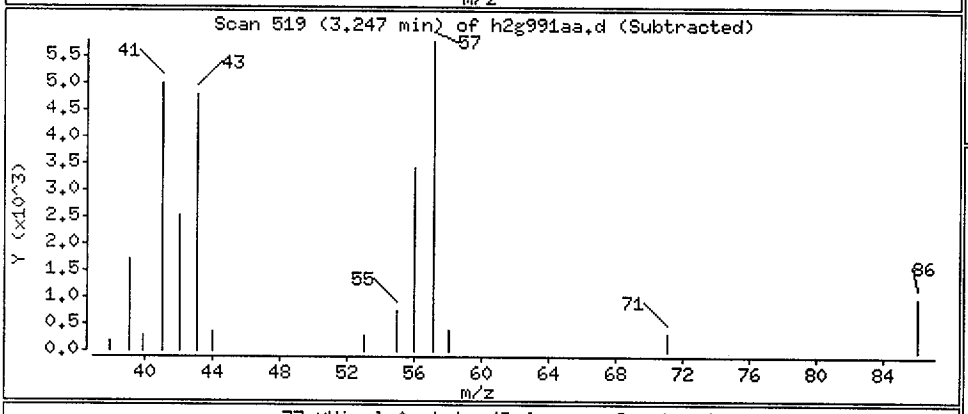
Column diameter: 0.18

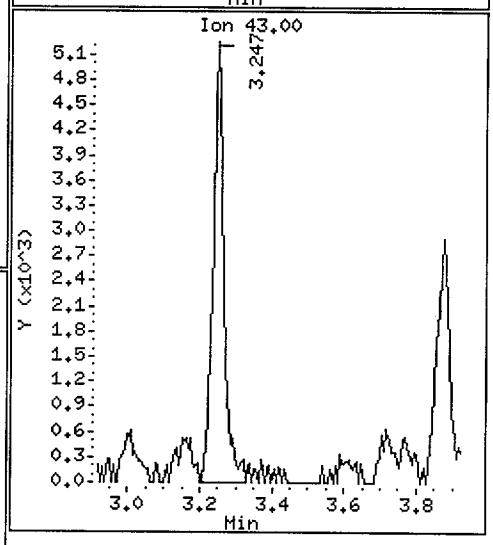
33 *Vinyl Acetate

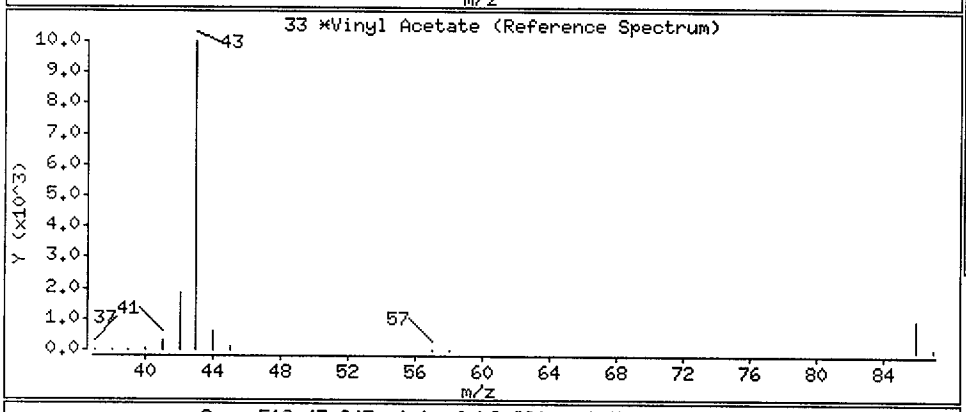
Concentration: 0.035552 ug

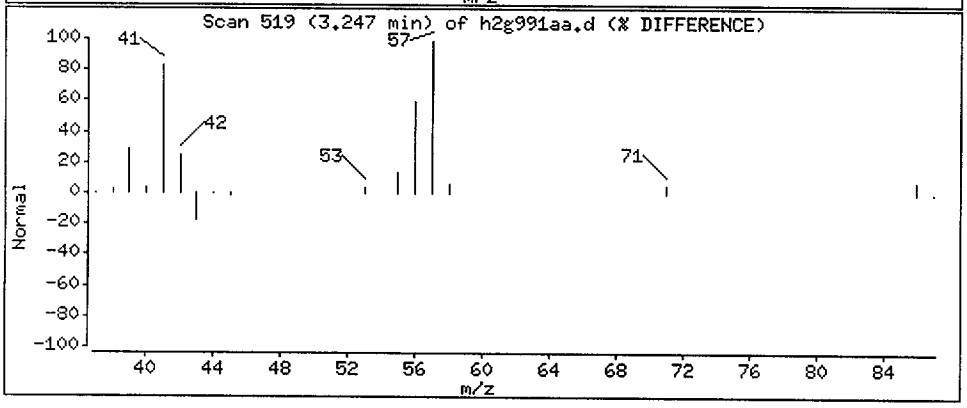












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

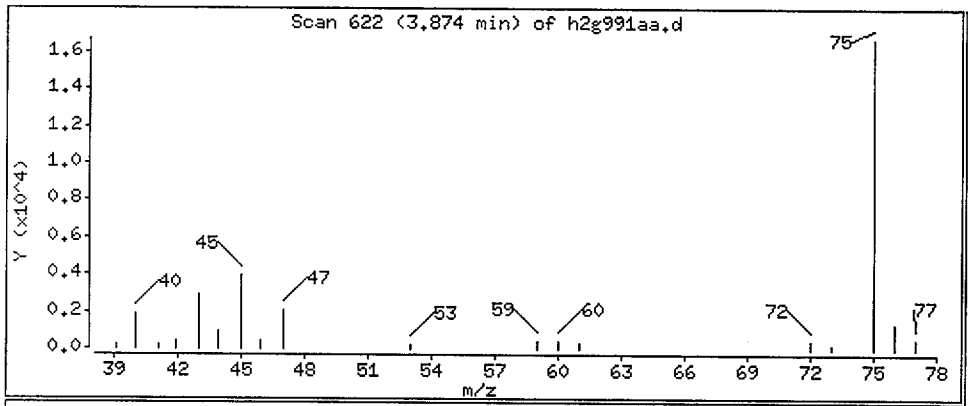
Operator: 22980

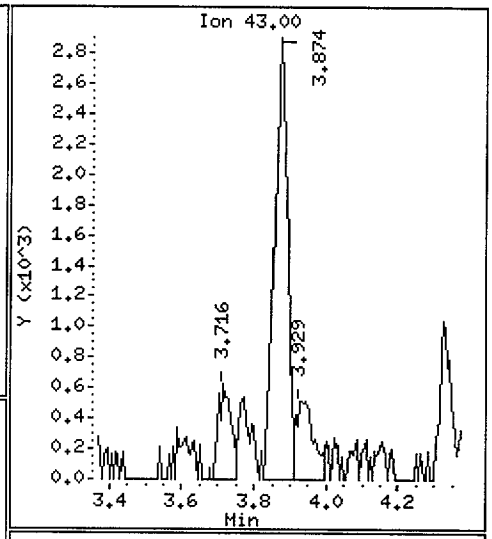
Column phase: J+W 624

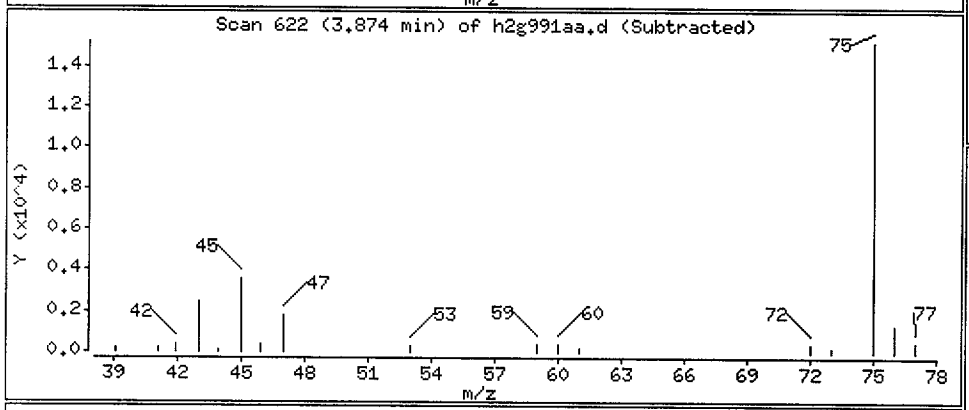
Column diameter: 0.18

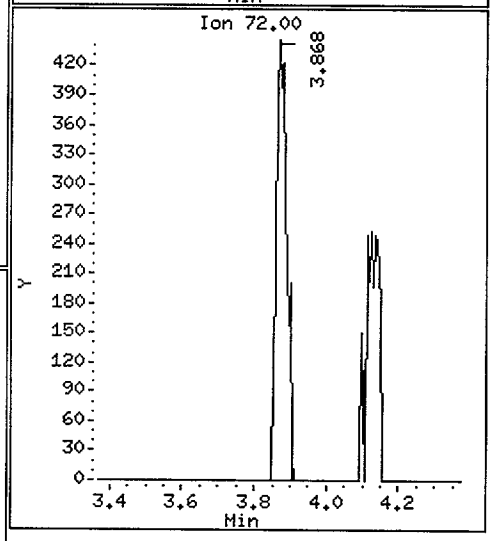
36 2-Butanone

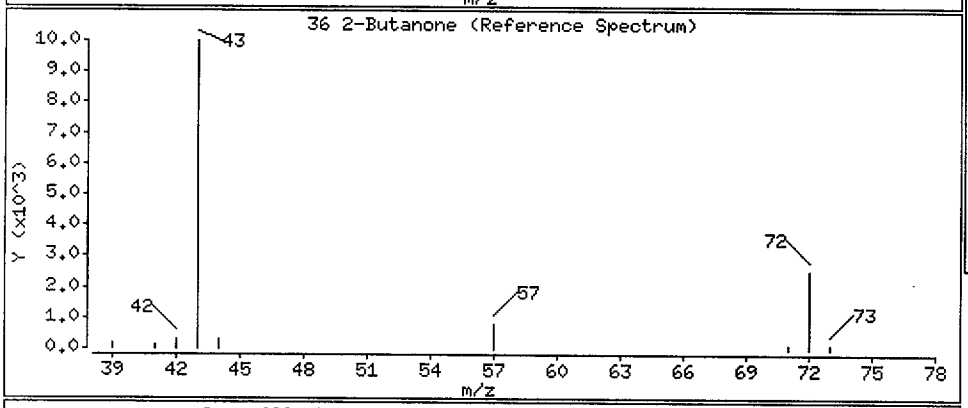
Concentration: 0.069847 ug

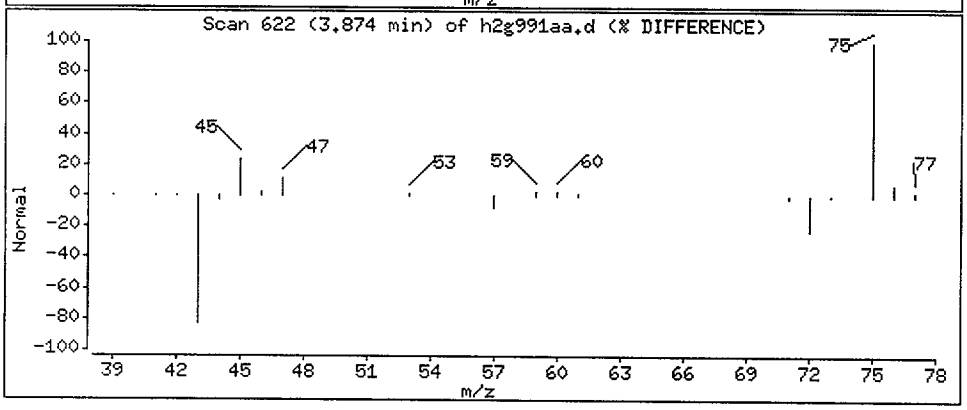












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

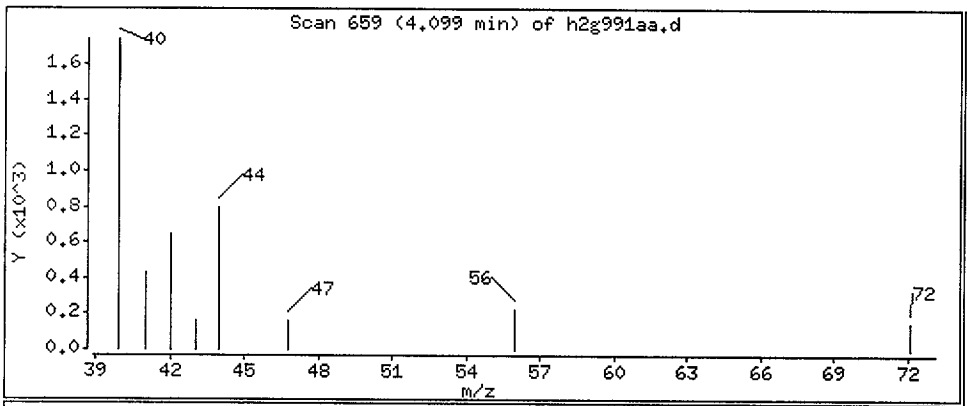
Operator: 22980

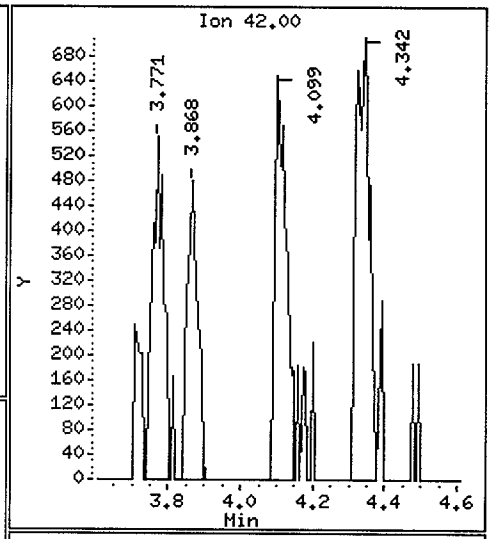
Column phase: J+W 624

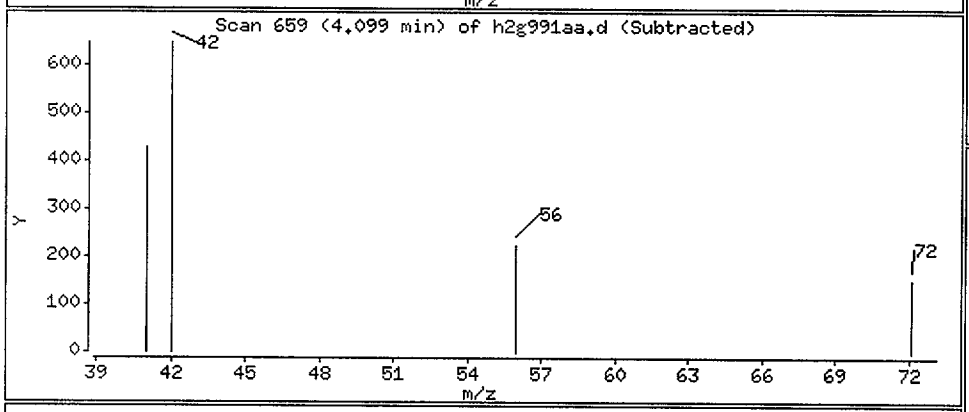
Column diameter: 0.18

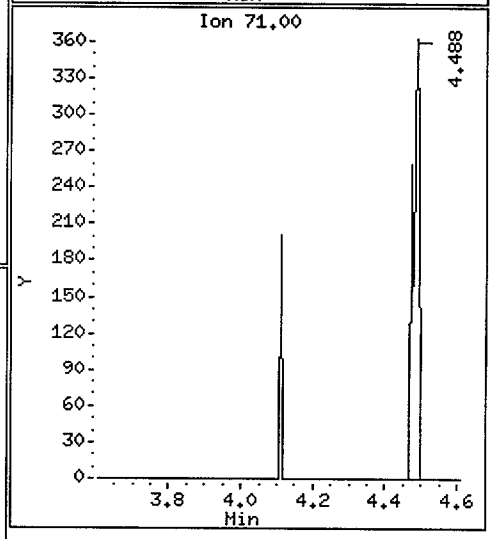
38 *THF

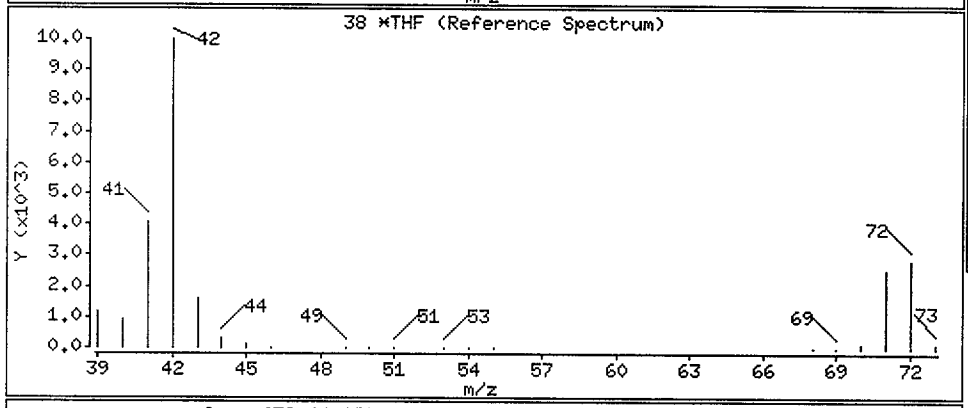
Concentration: 0.023103 ug

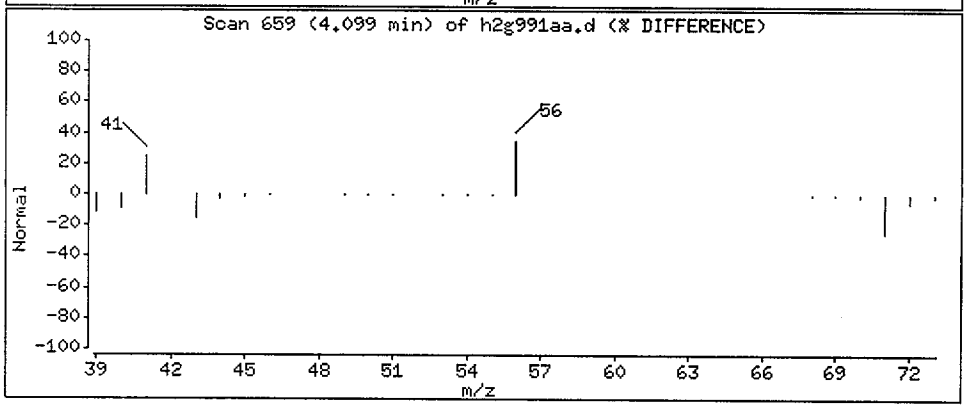












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

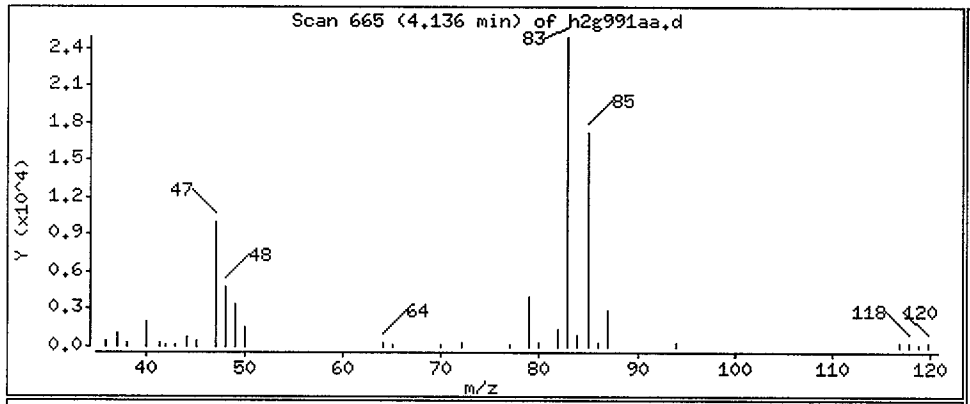
Operator: 22980

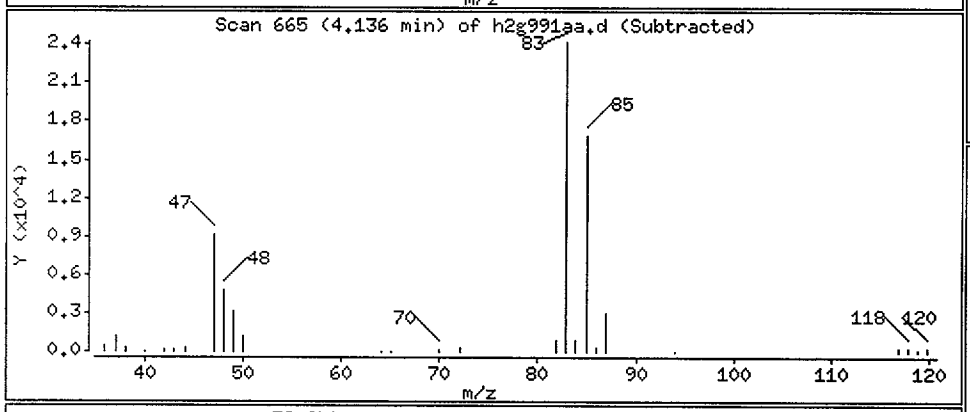
Column phase: J+W 624

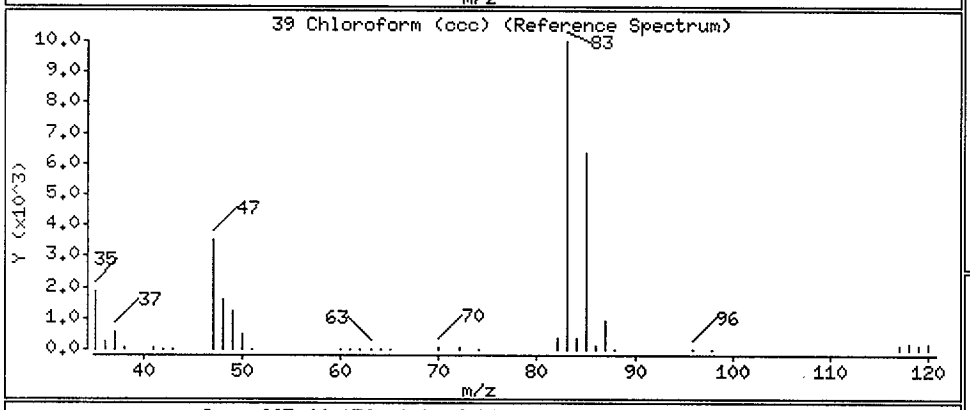
Column diameter: 0.18

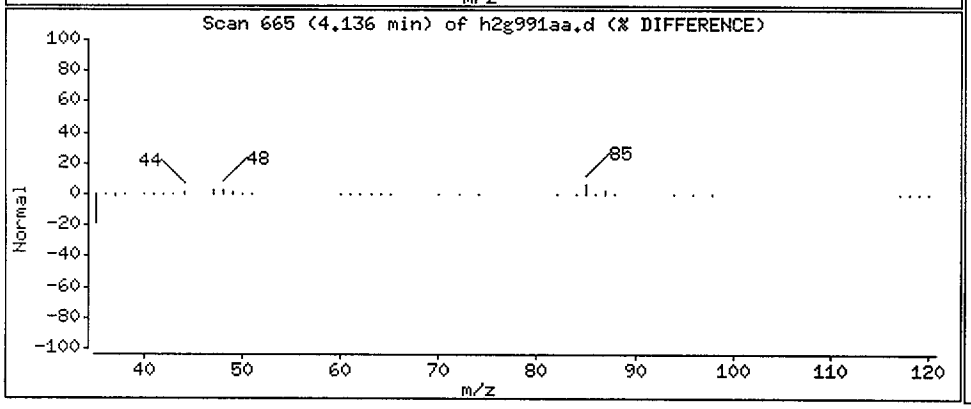
39 Chloroform (ccc)

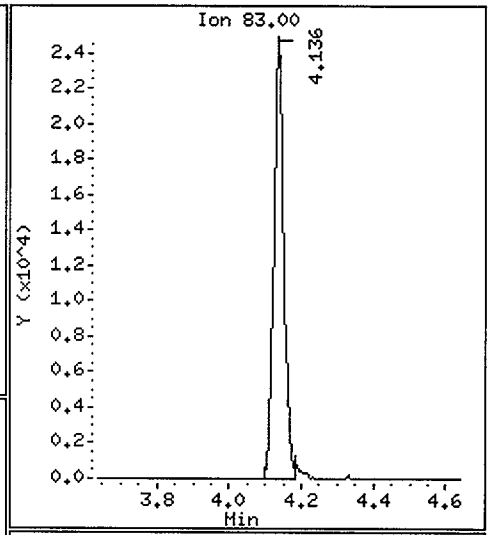
Concentration: 0.027149 ug

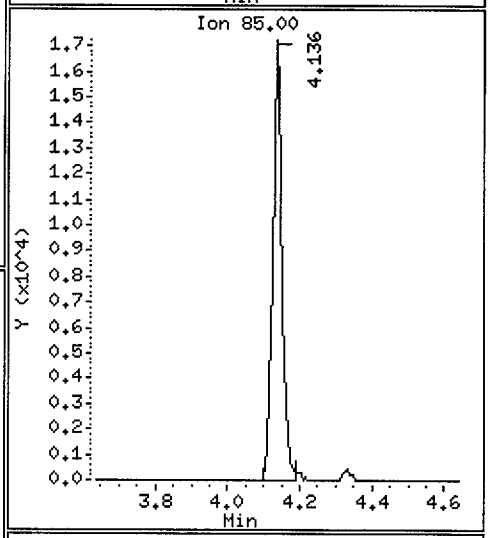


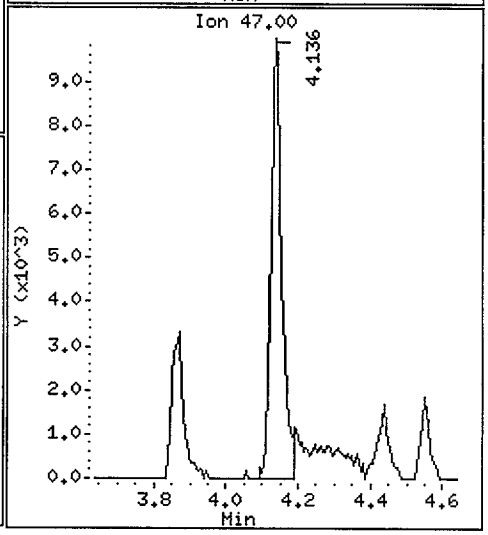












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

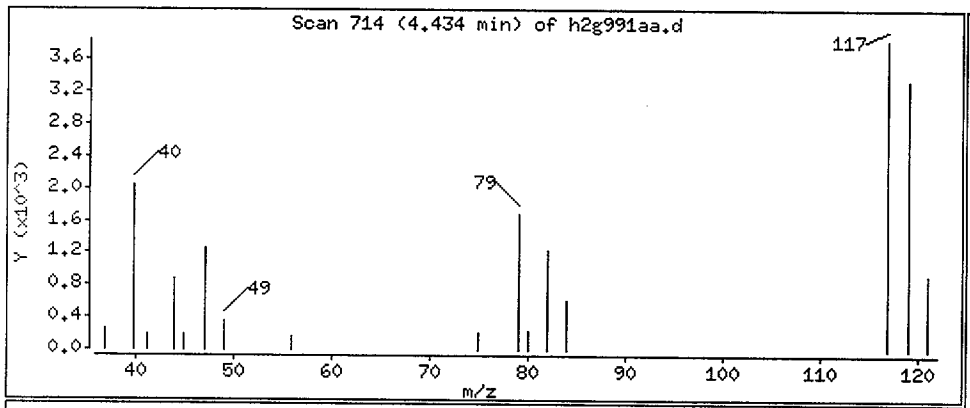
Operator: 22980

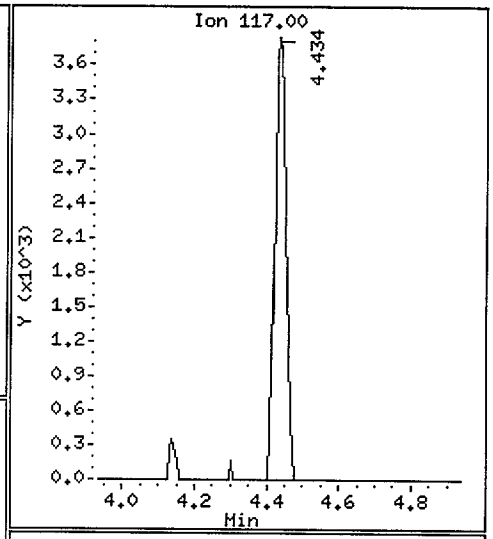
Column phase: J+W 624

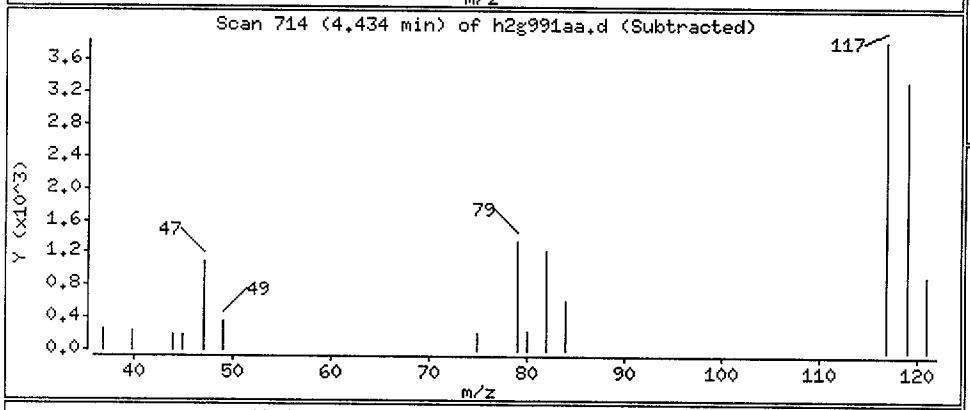
Column diameter: 0.18

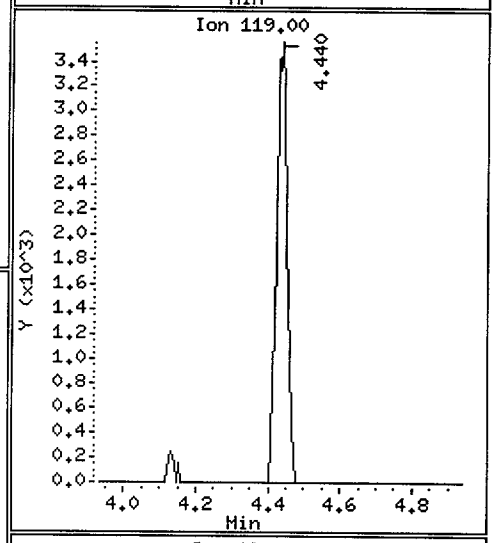
41 Carbon Tetrachloride

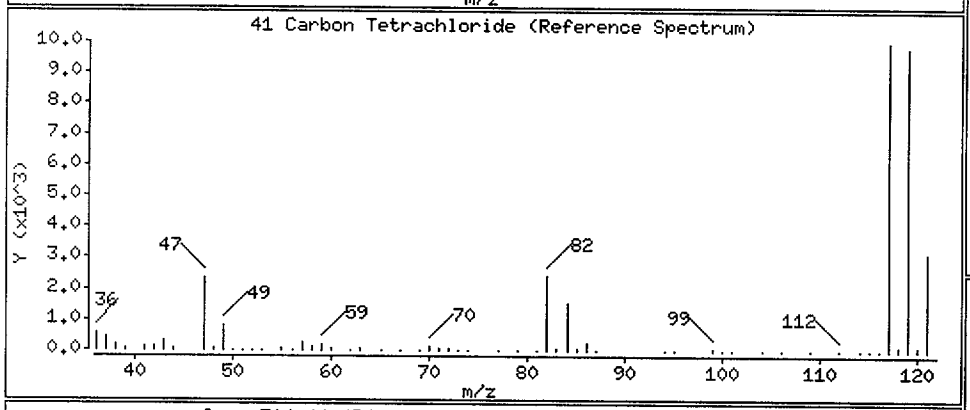
Concentration: 0.0049154 ug

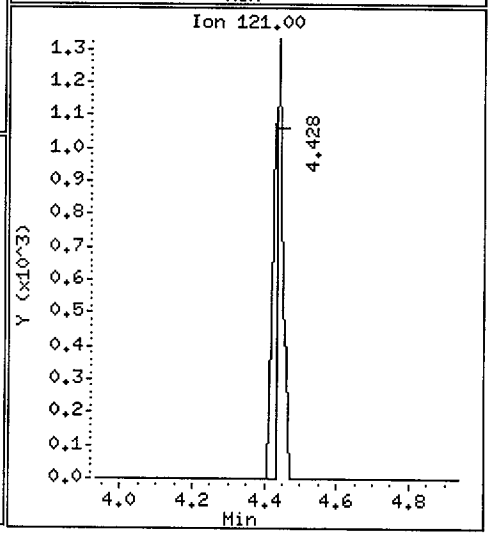


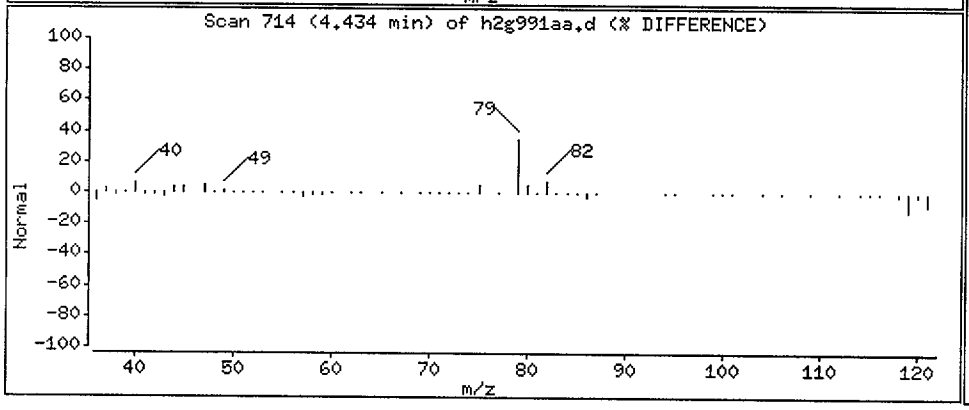












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

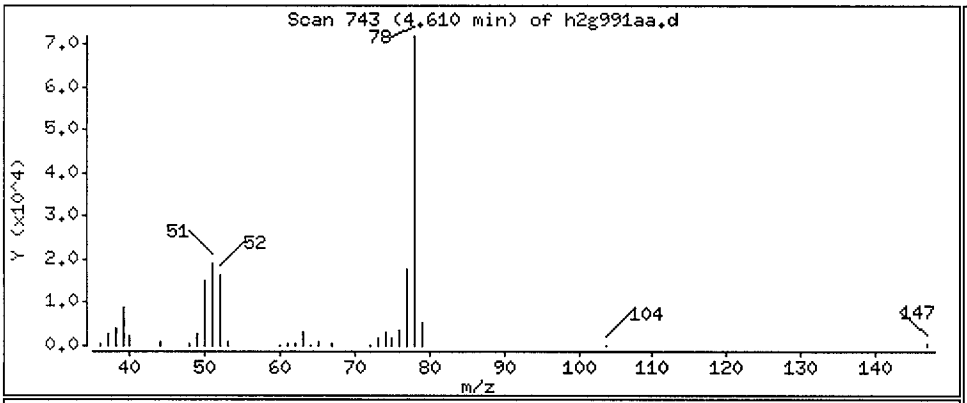
Operator: 22980

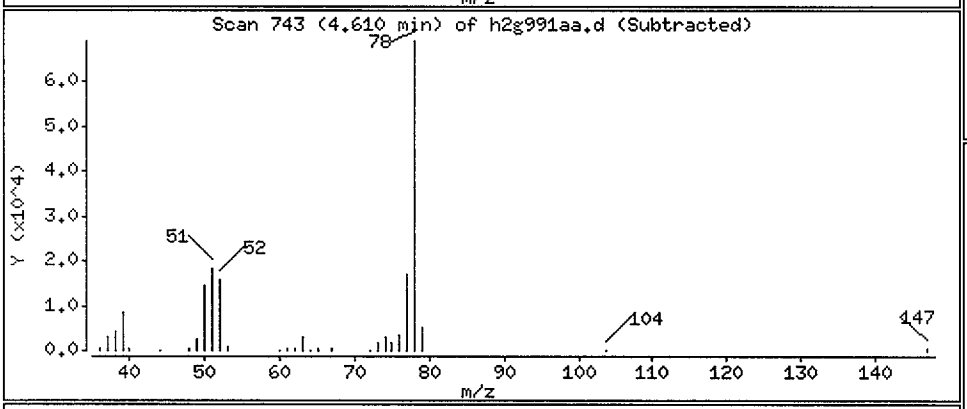
Column phase: J+W 624

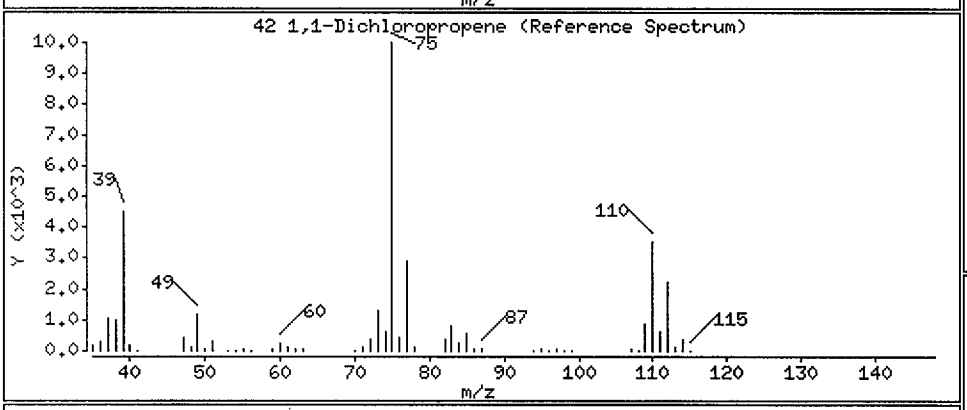
Column diameter: 0.18

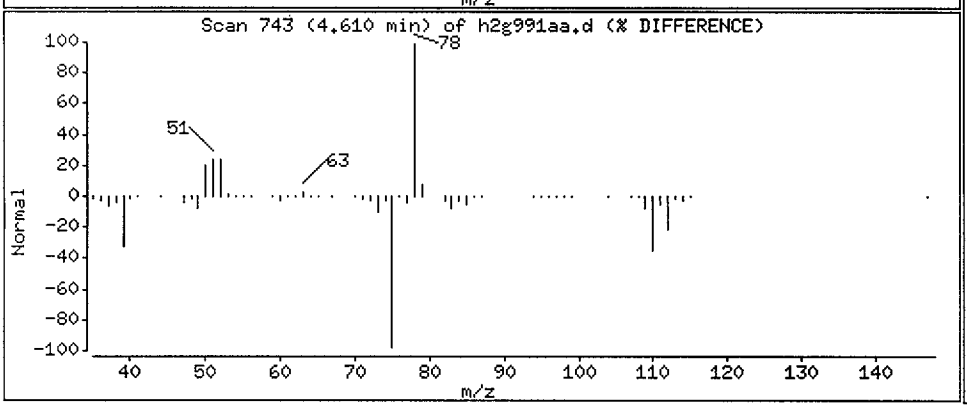
42 1,1-Dichloropropene

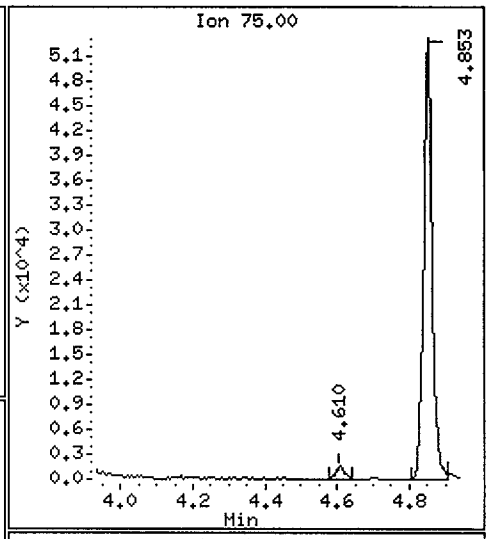
Concentration: 0.0014757 ug

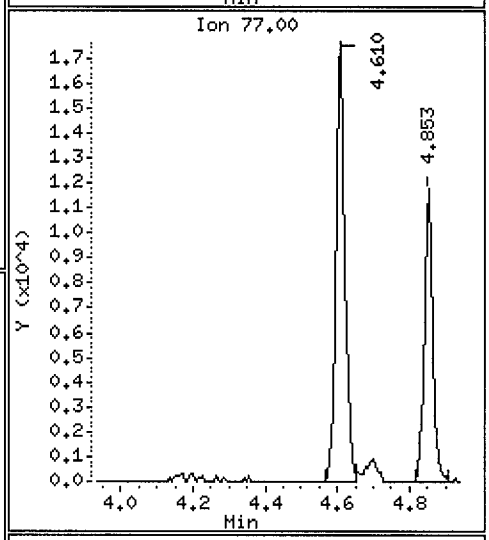


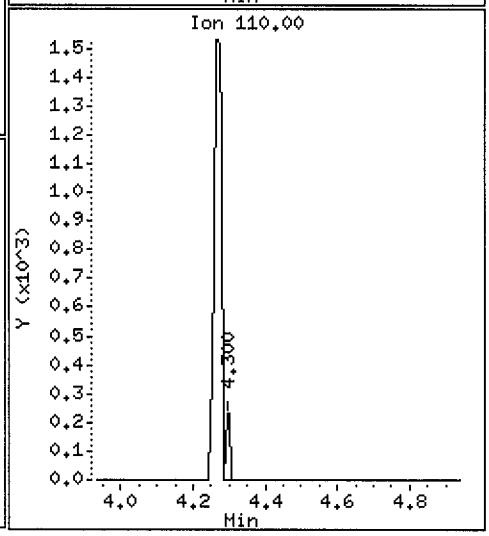












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

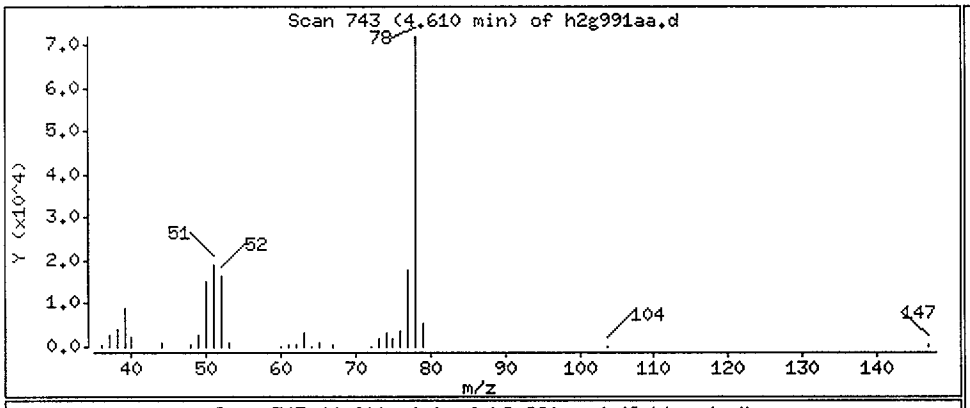
Operator: 22980

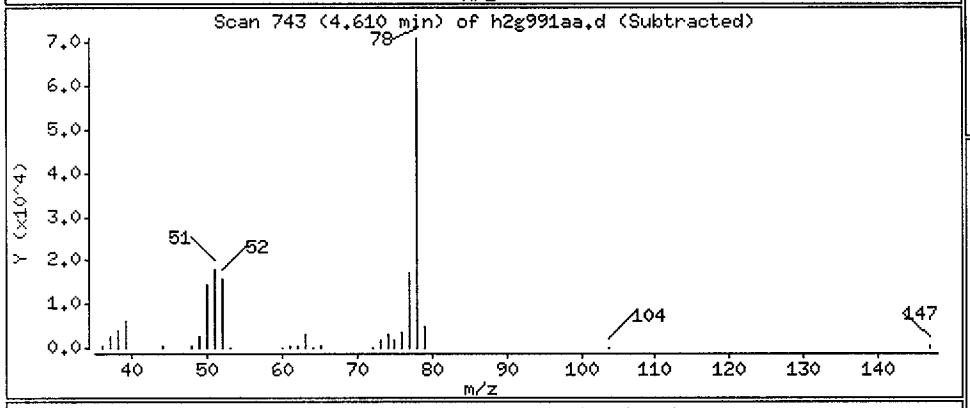
Column phase: J+W 624

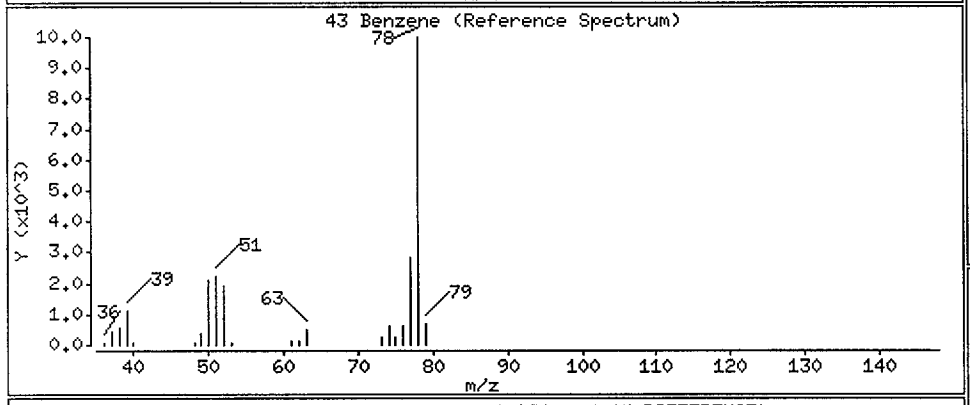
Column diameter: 0.18

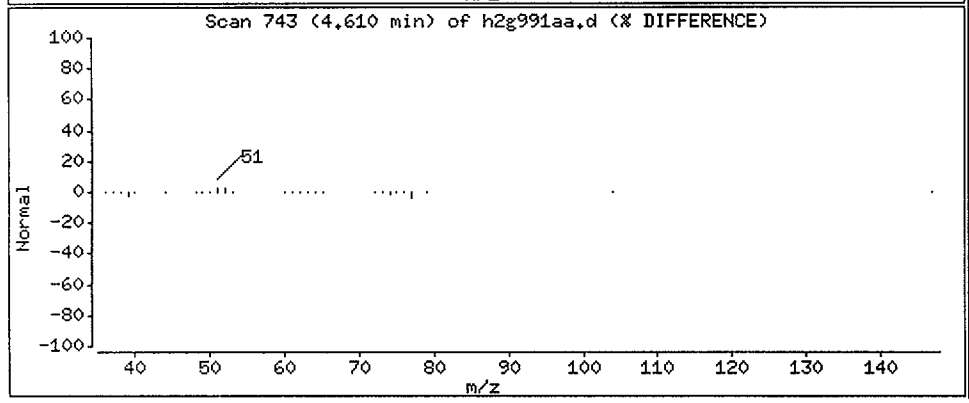
43 Benzene

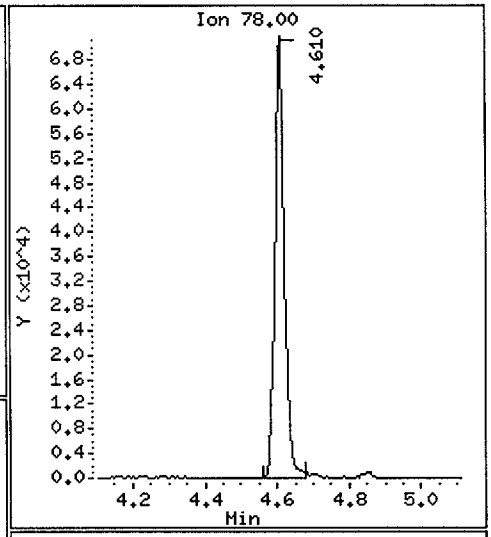
Concentration: 0.027772 ug

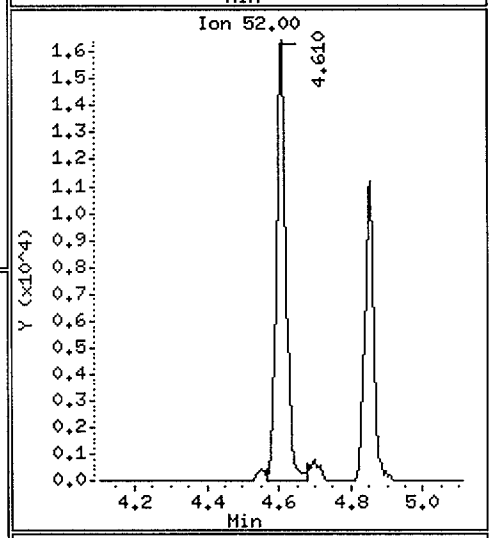


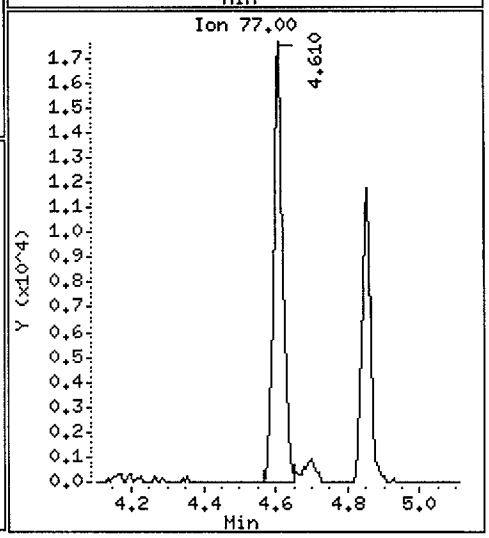












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

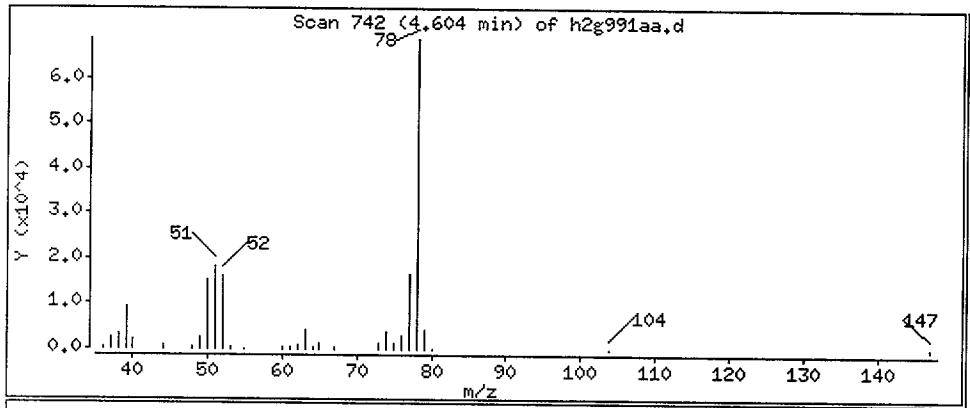
Operator: 22980

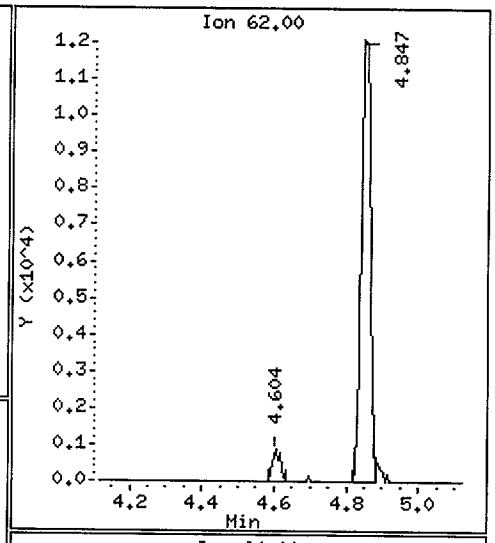
Column phase: J+W 624

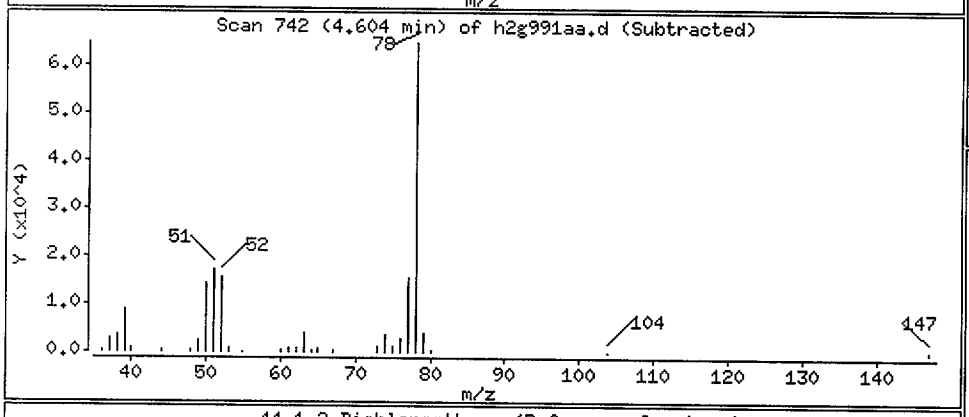
Column diameter: 0.18

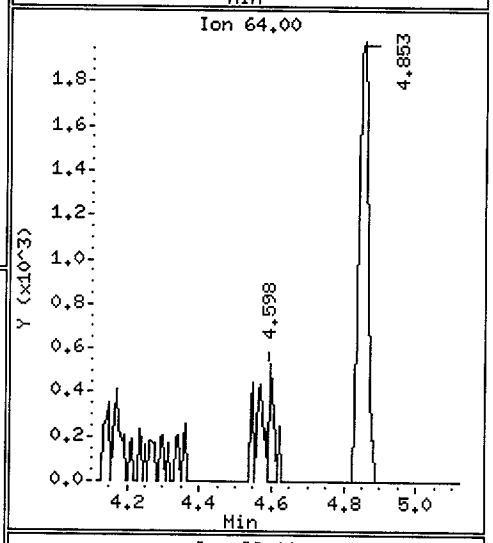
44 1,2-Dichloroethane

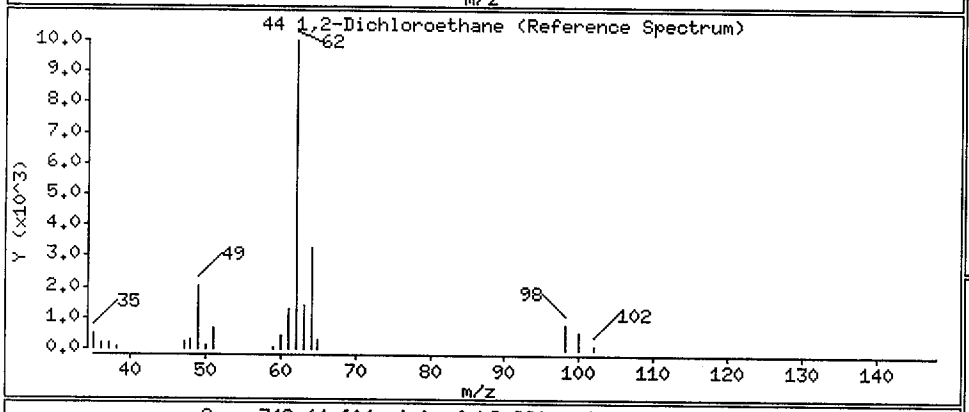
Concentration: 0.0016000 ug

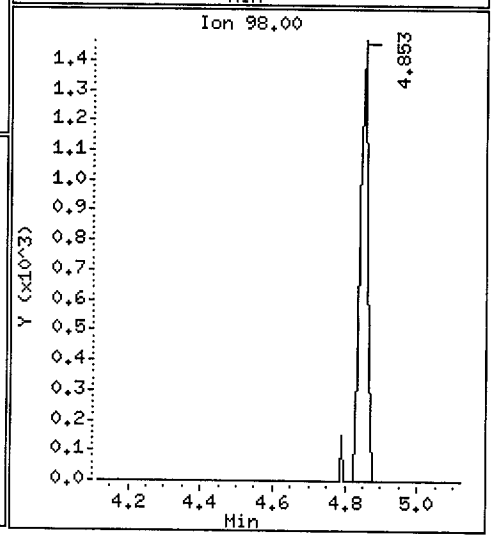


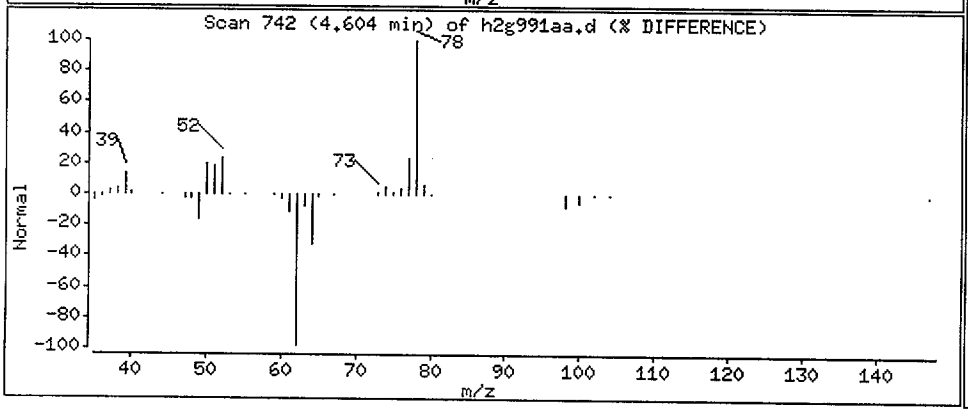












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

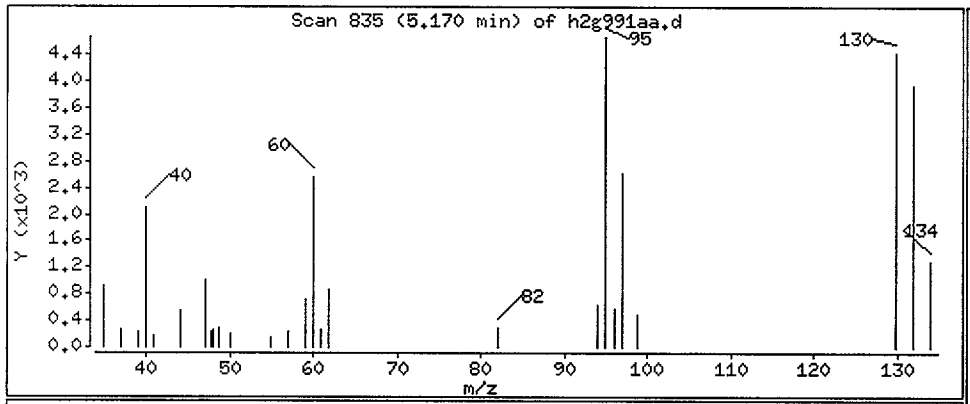
Operator: 22980

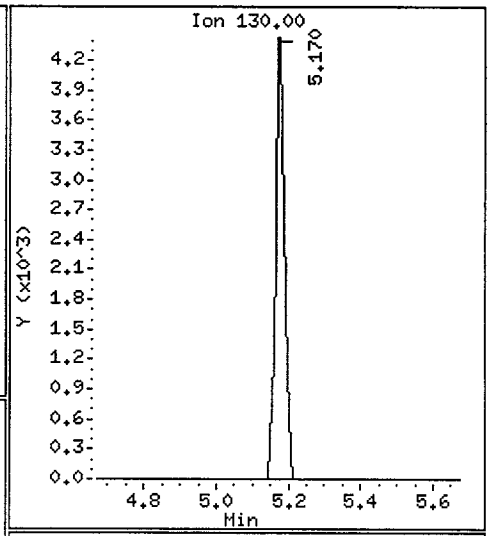
Column phase: J+W 624

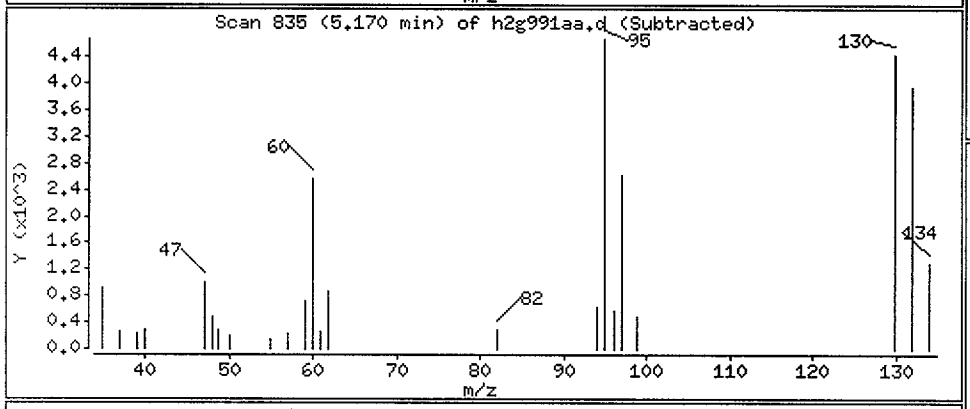
Column diameter: 0.18

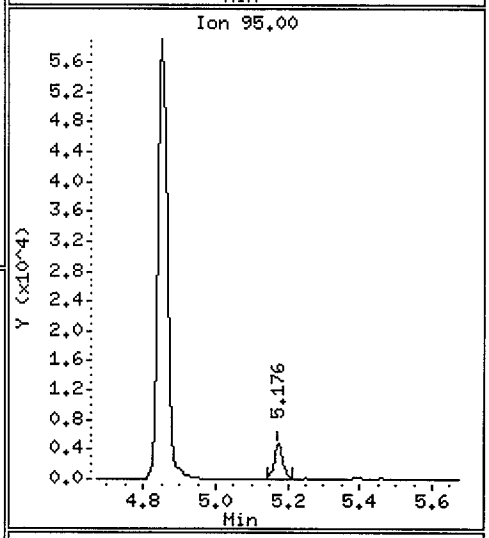
45 Trichloroethene

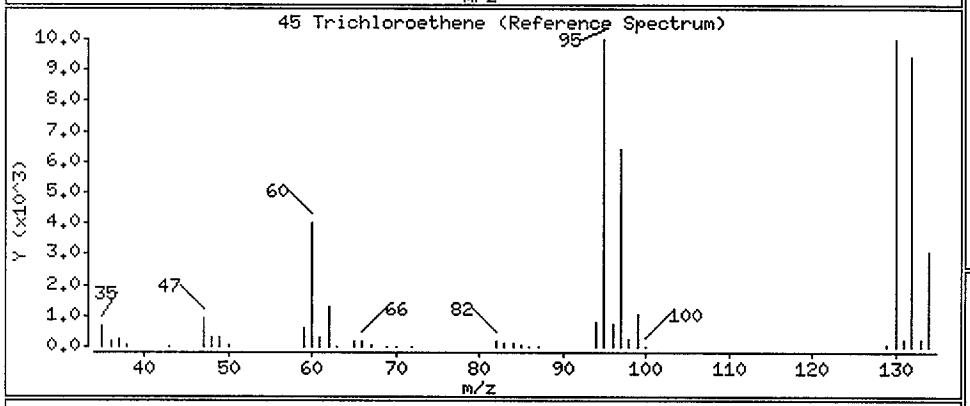
Concentration: 0.0060656 ug

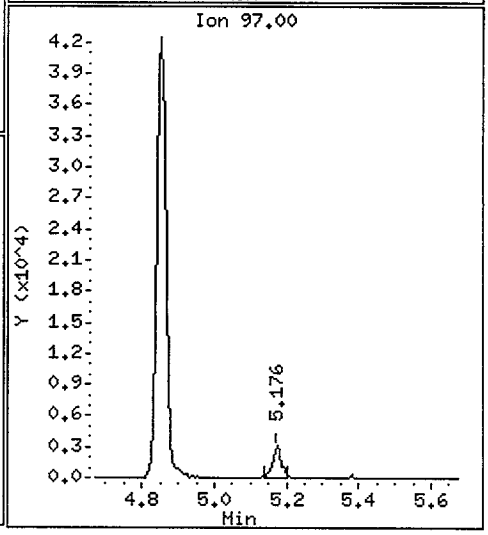


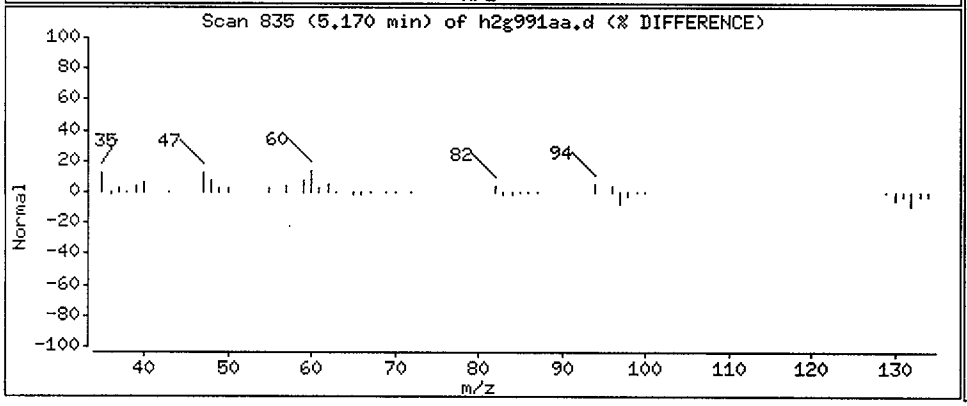












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

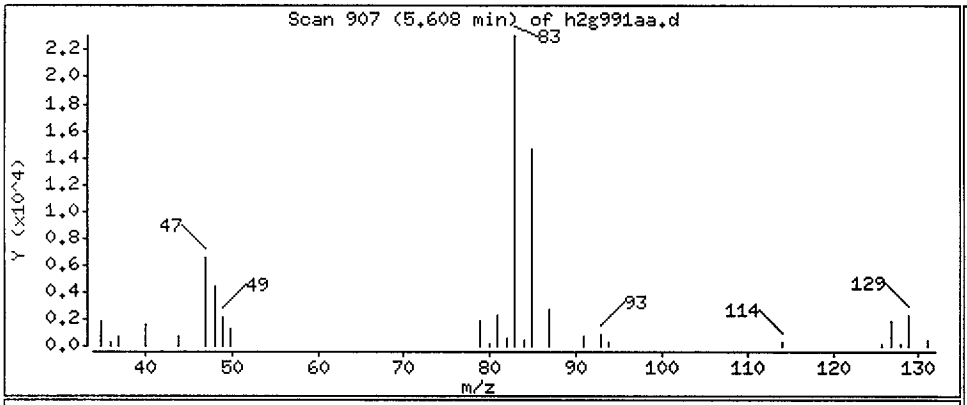
Operator: 22980

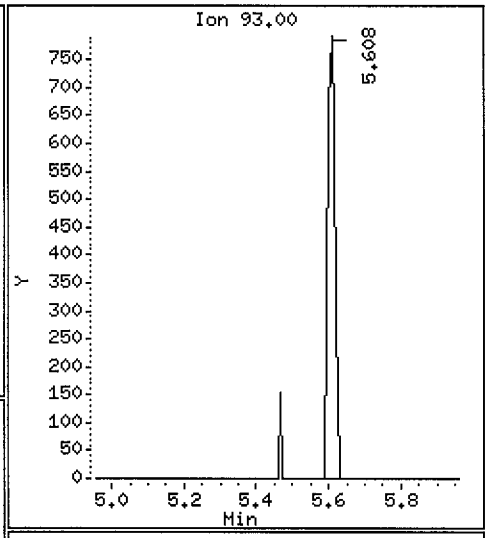
Column phase: J+W 624

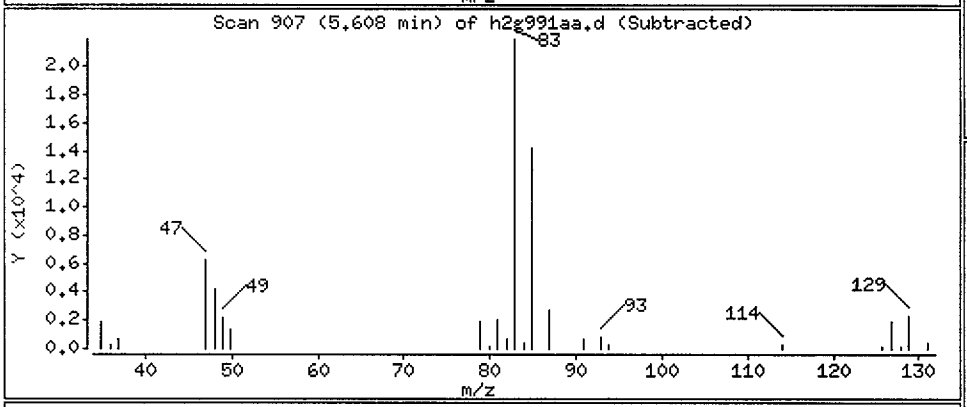
Column diameter: 0.18

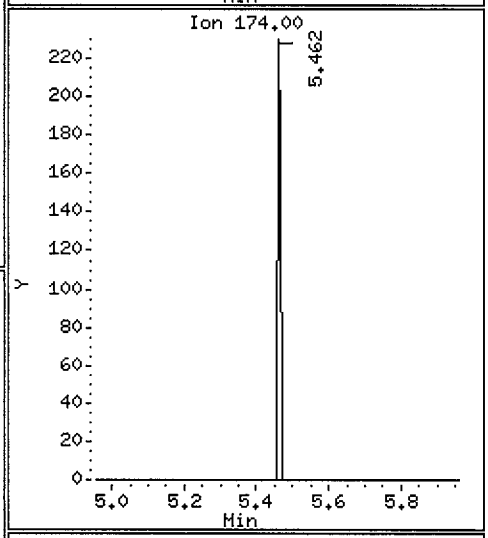
48 Dibromomethane

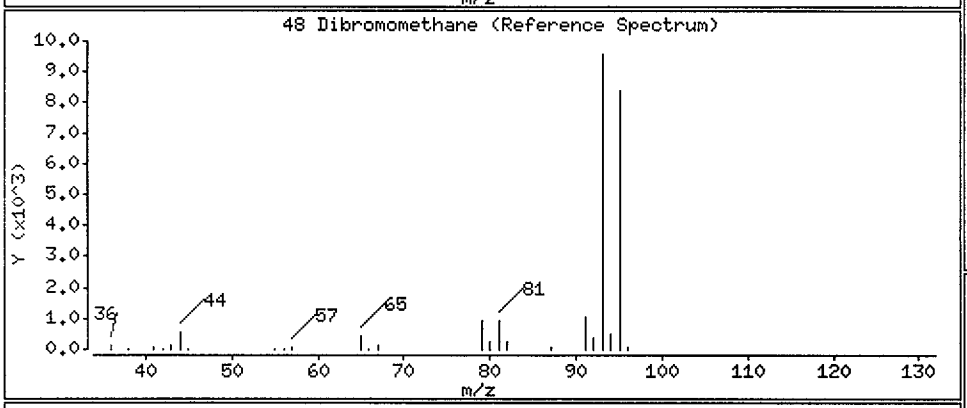
Concentration: 0.0039102 ug

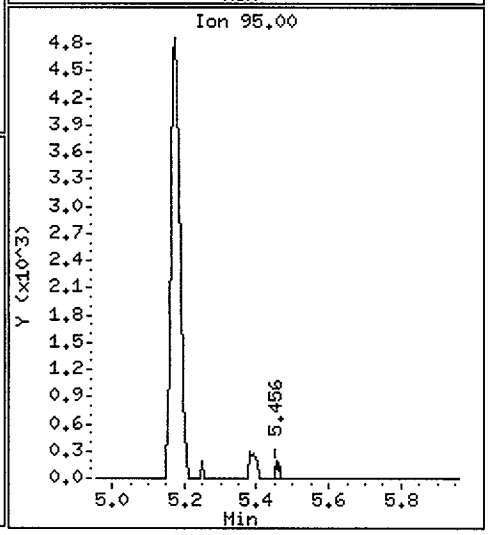


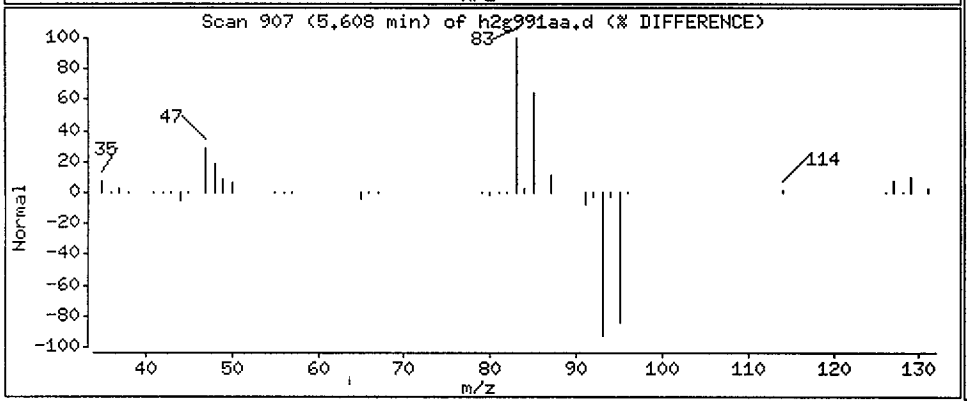












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

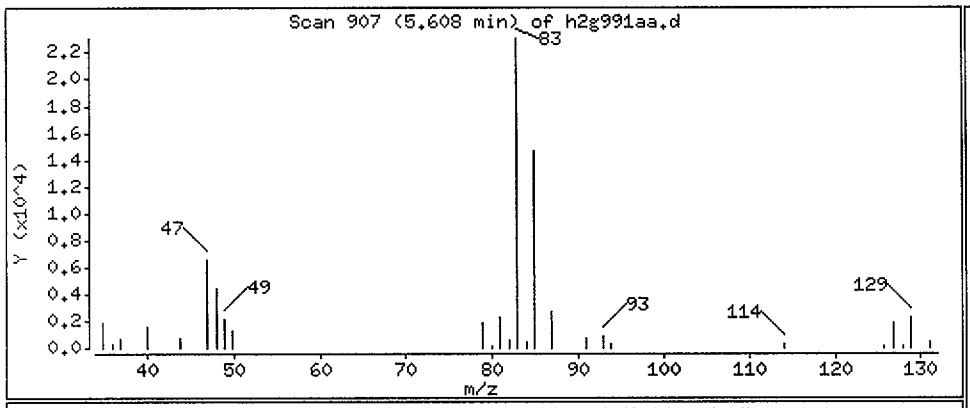
Operator: 22980

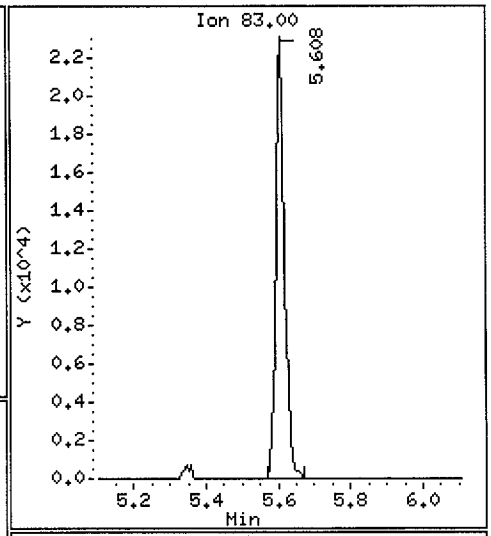
Column phase: J+W 624

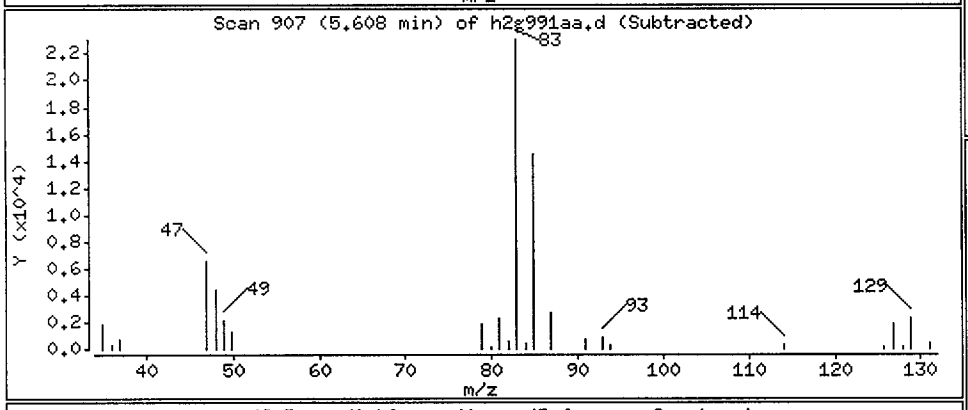
Column diameter: 0.18

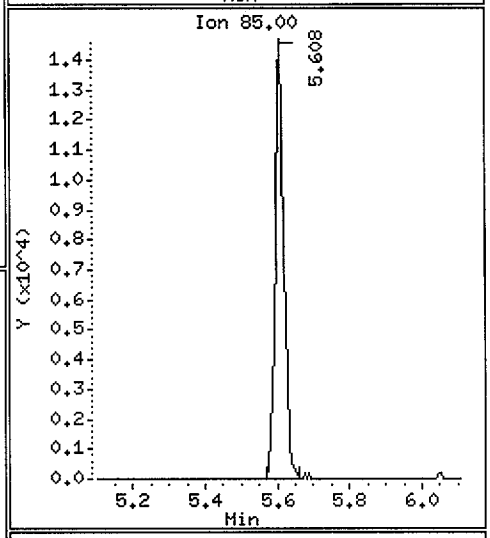
49 Bromodichloromethane

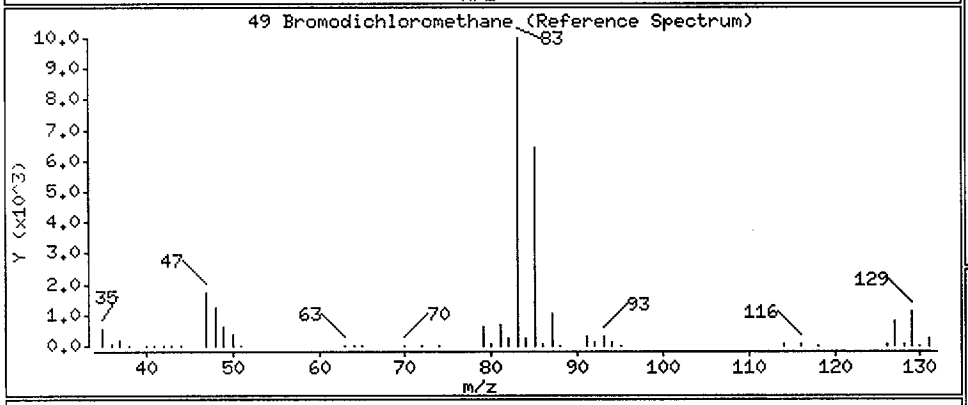
Concentration: 0.039484 ug

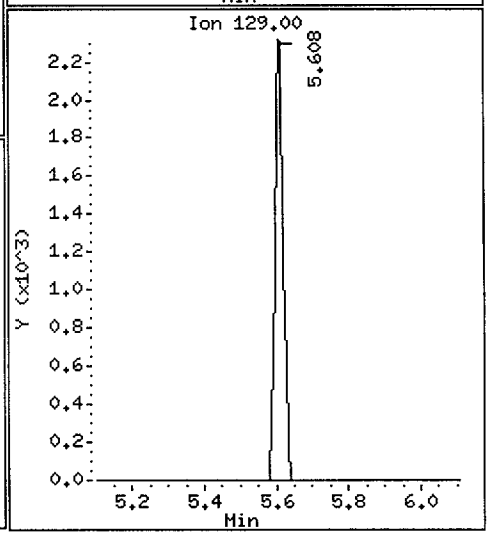


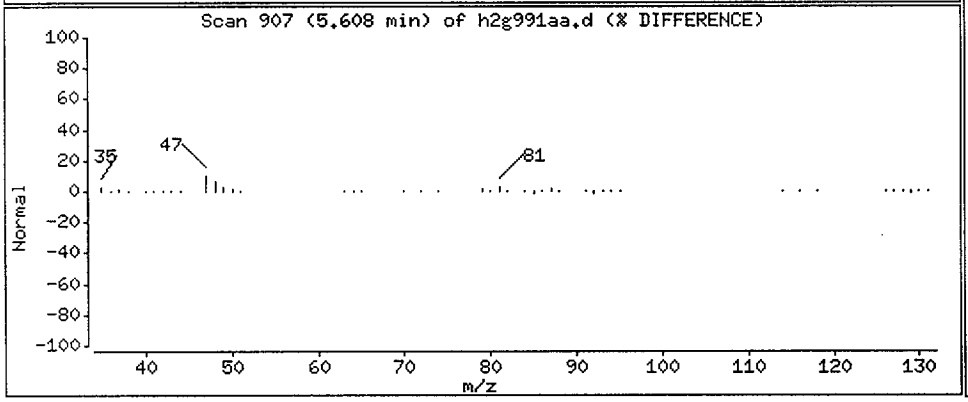












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

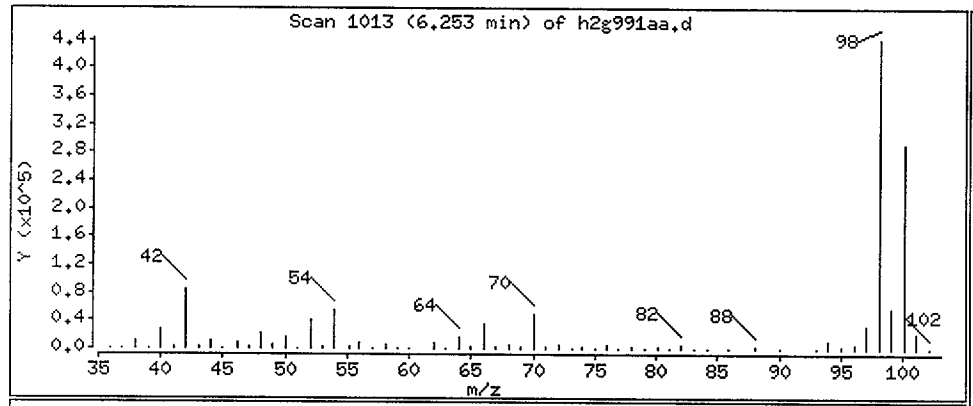
Operator: 22980

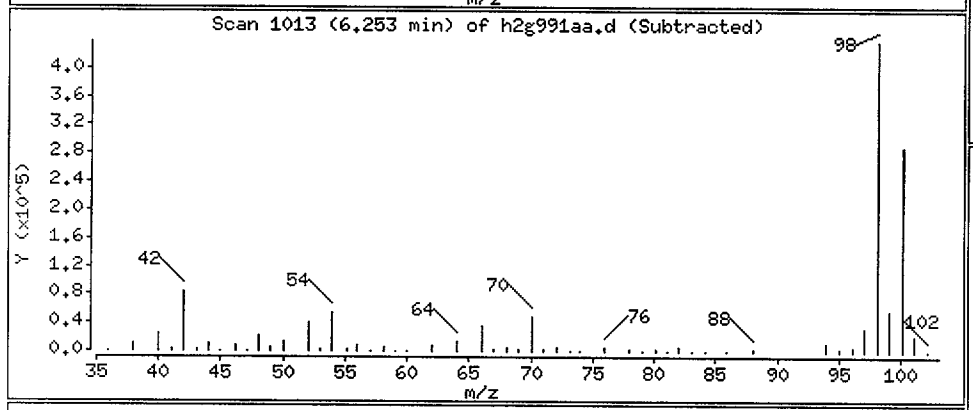
Column phase: J+W 624

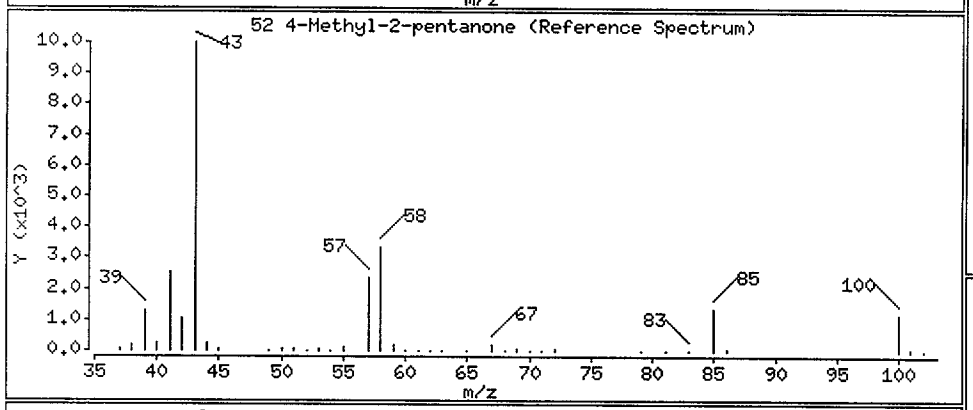
Column diameter: 0.18

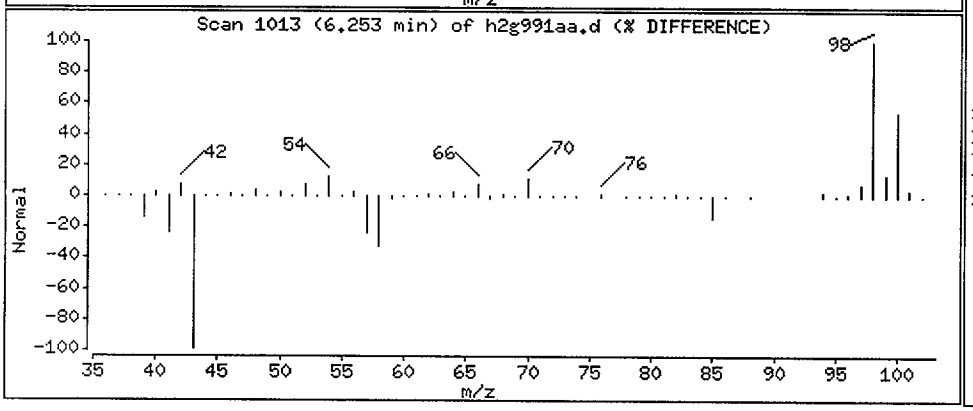
52 4-Methyl-2-pentanone

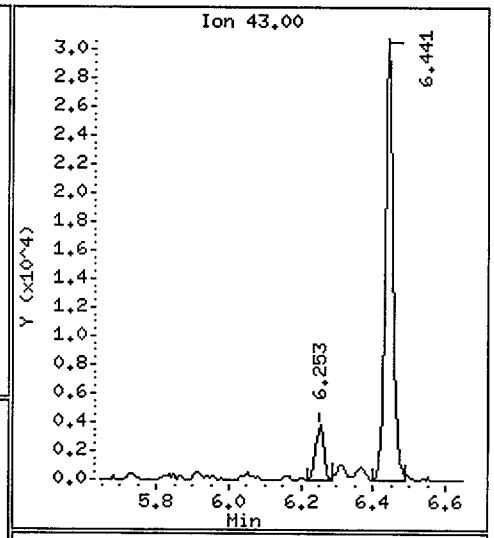
Concentration: 0.024470 ug

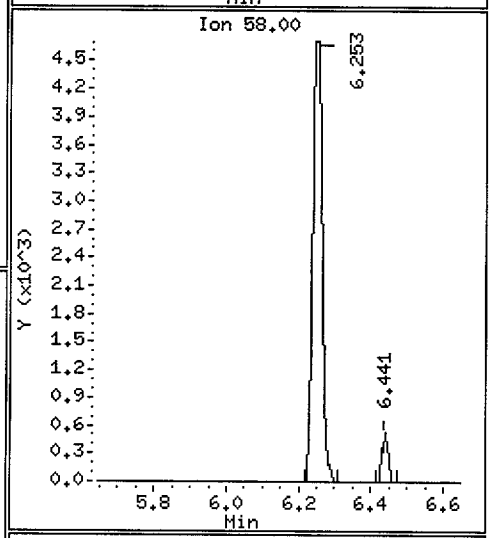


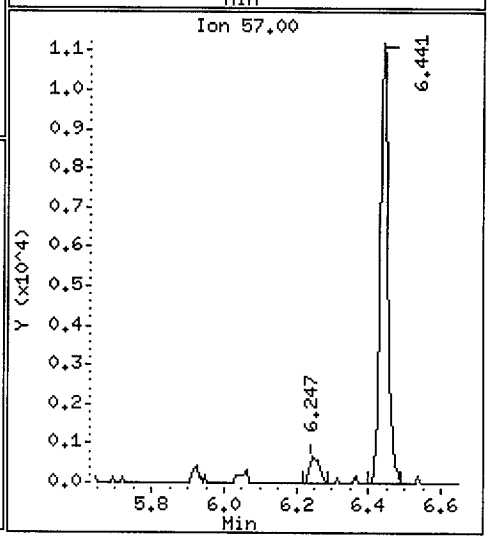












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

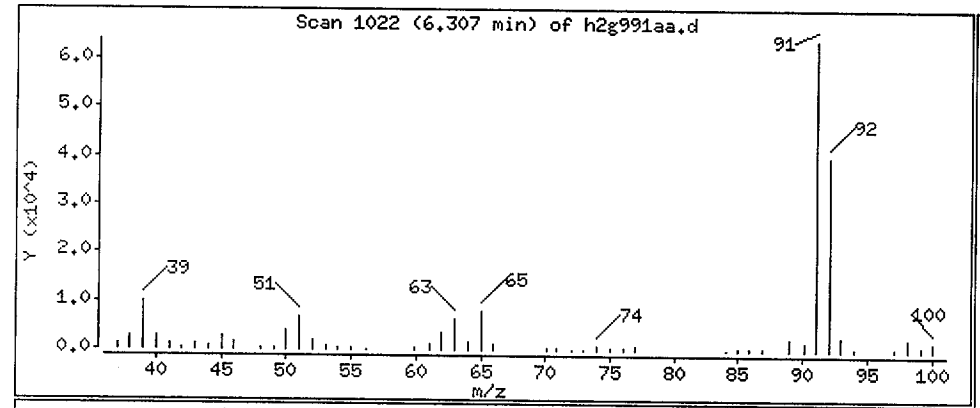
Operator: 22980

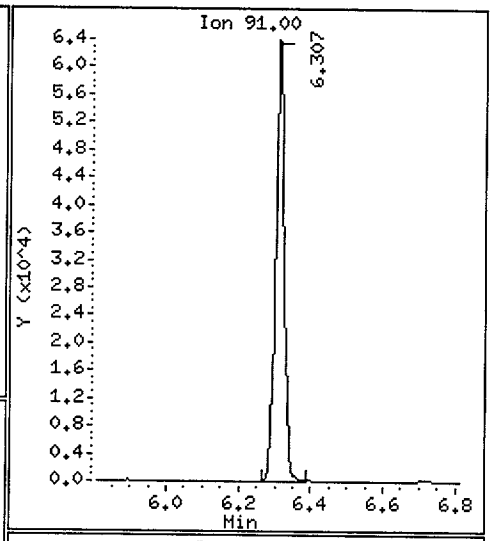
Column phase: J+W 624

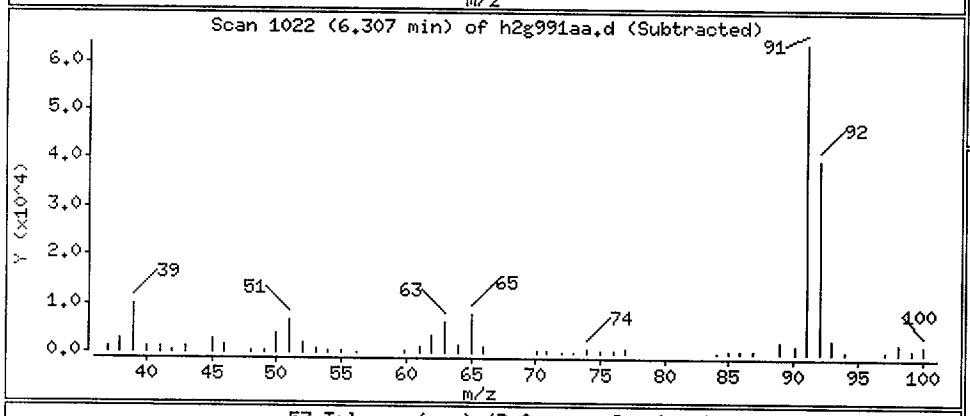
Column diameter: 0.18

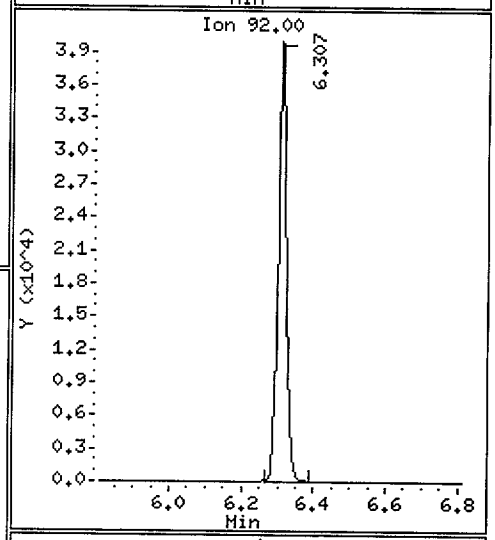
53 Toluene (ccc)

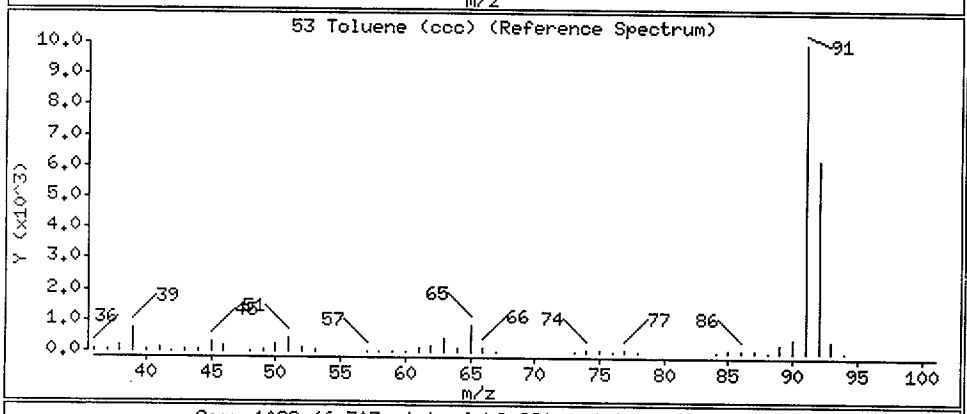
Concentration: 0.020578 ug

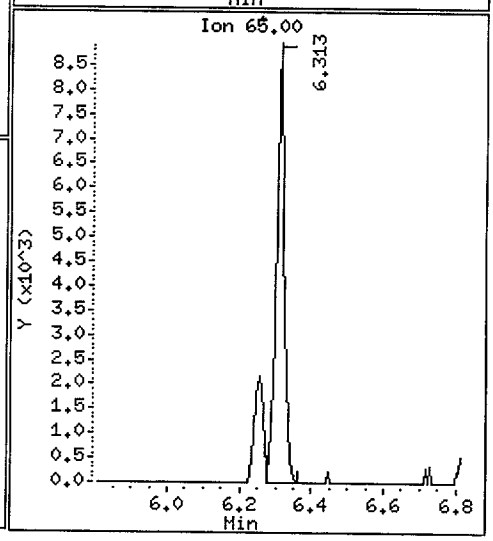


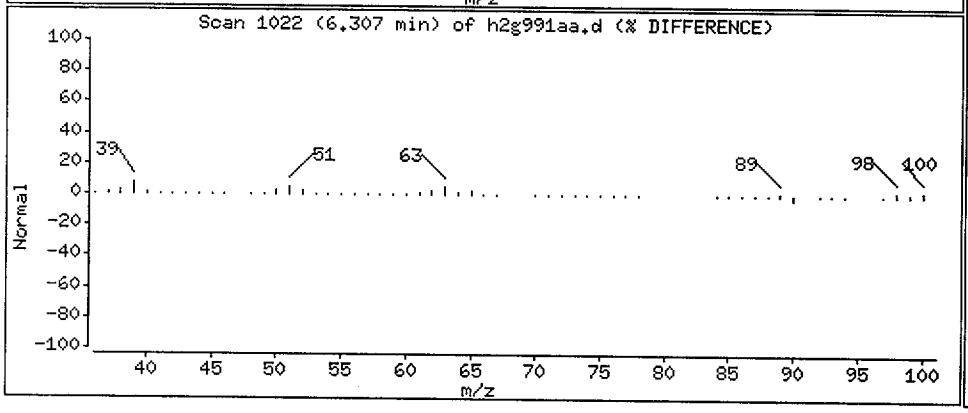












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

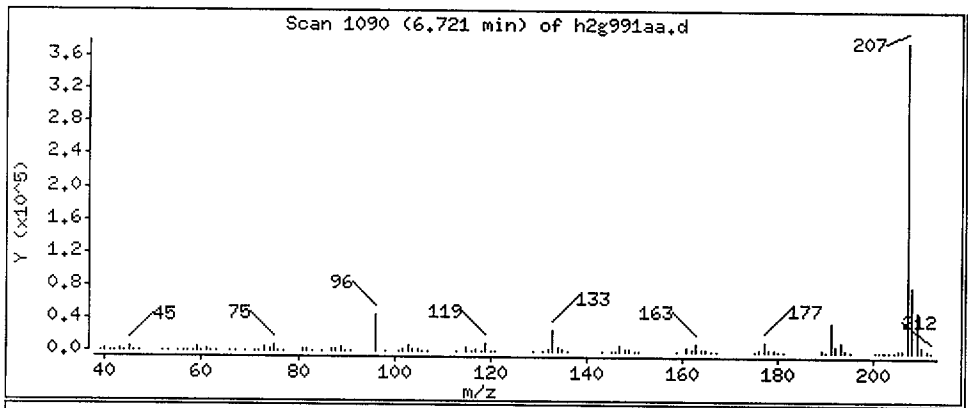
Operator: 22980

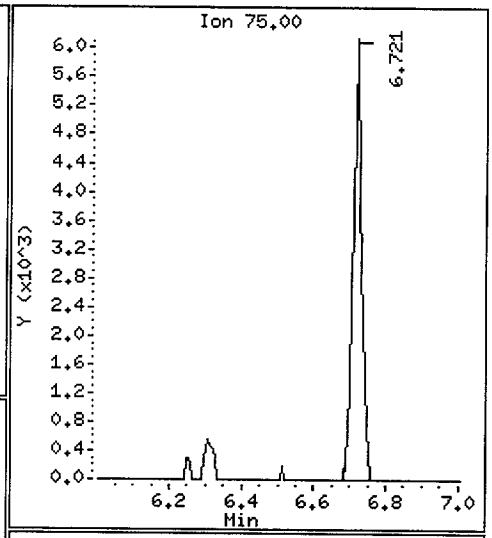
Column phase: J+W 624

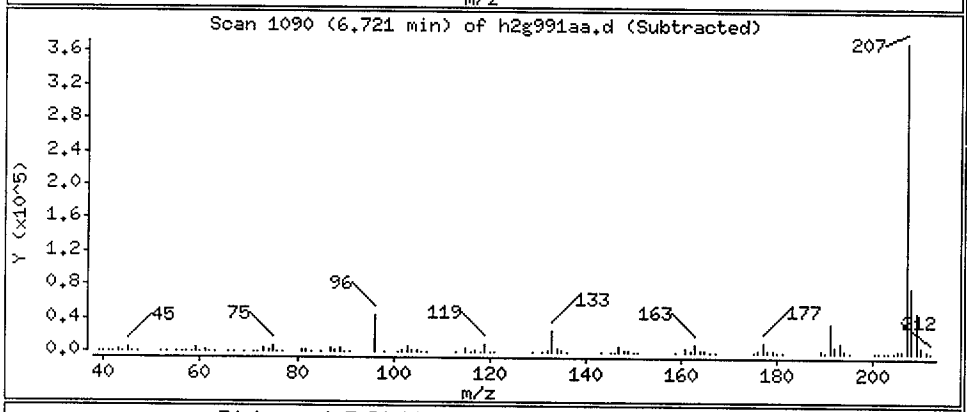
Column diameter: 0.18

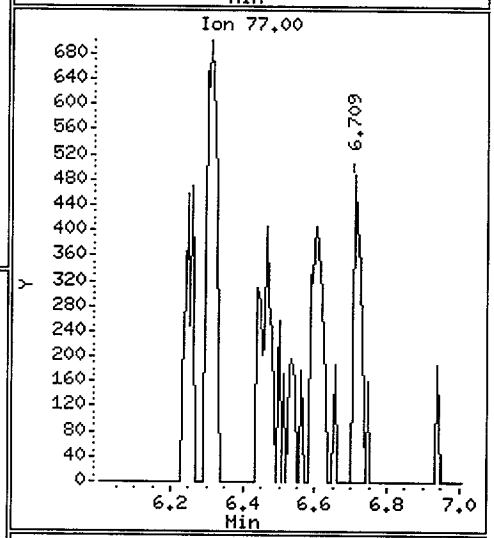
54 trans-1,3-Dichloropropene

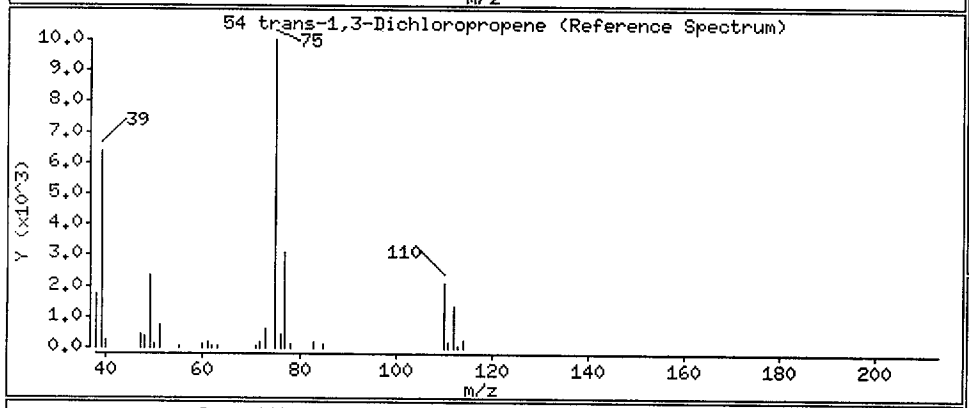
Concentration: 0.011169 ug

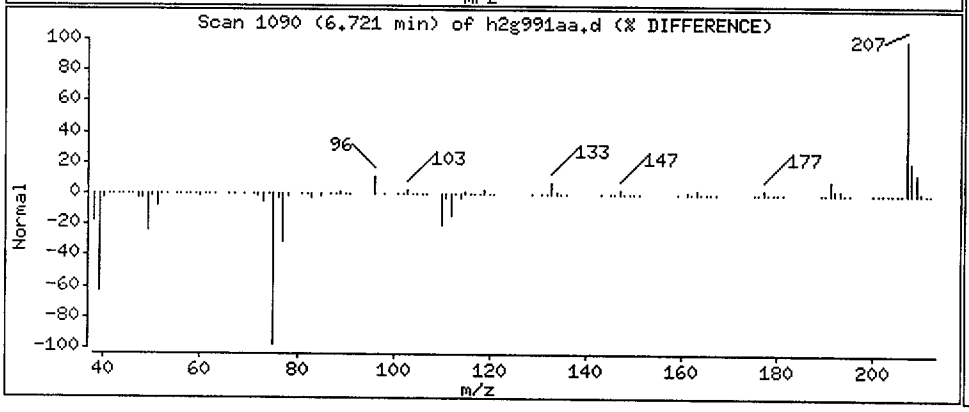


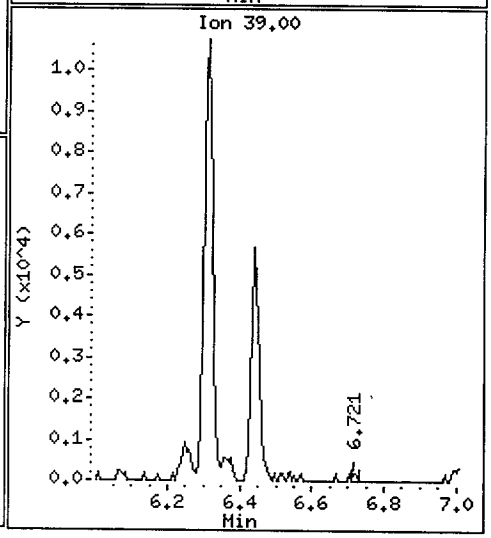












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

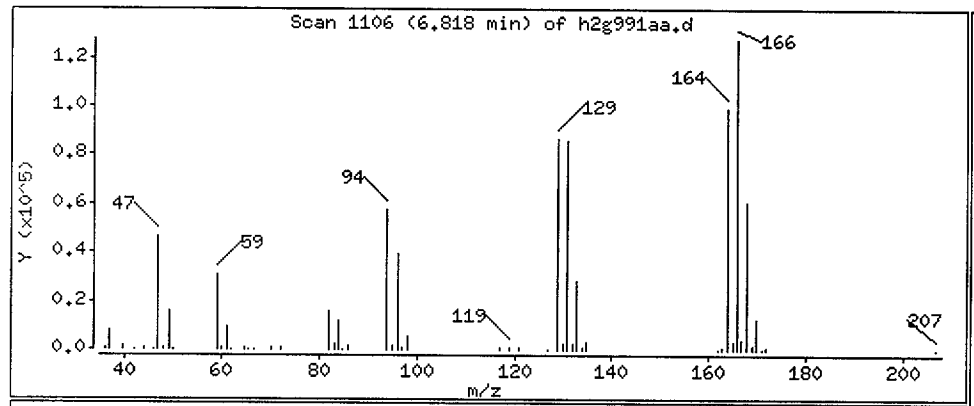
Operator: 22980

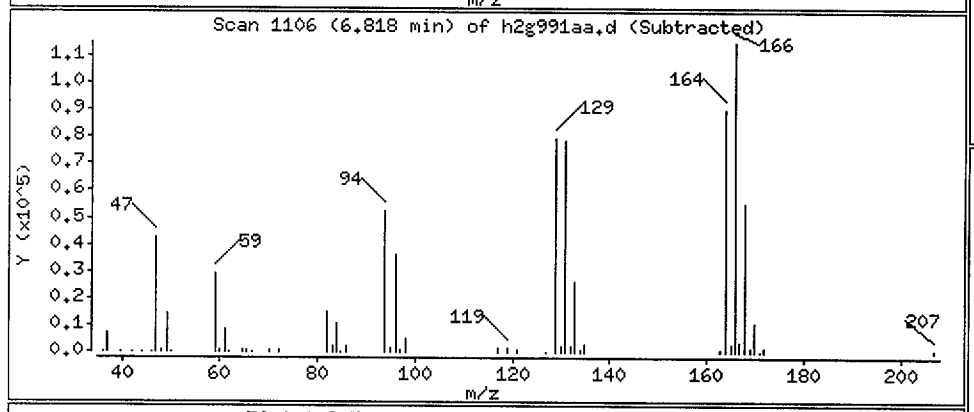
Column phase: J+W 624

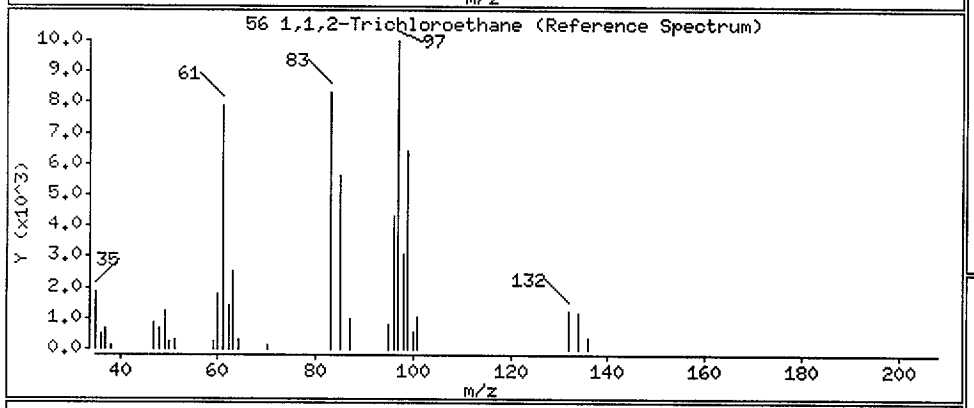
Column diameter: 0.18

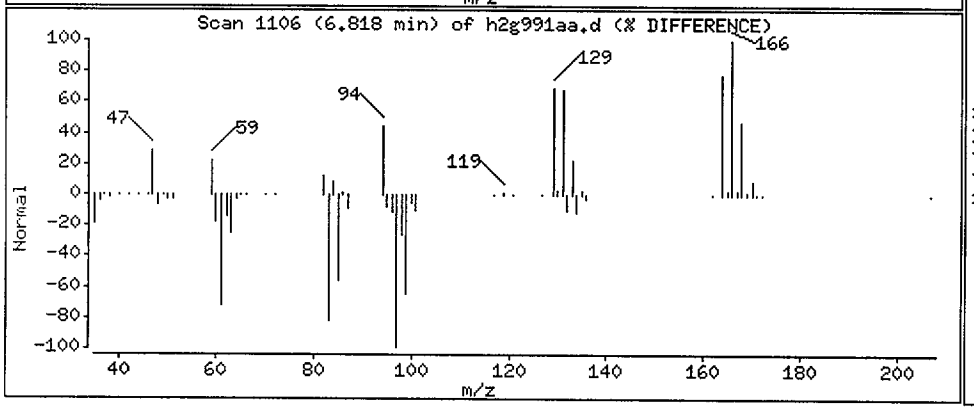
56 1,1,2-Trichloroethane

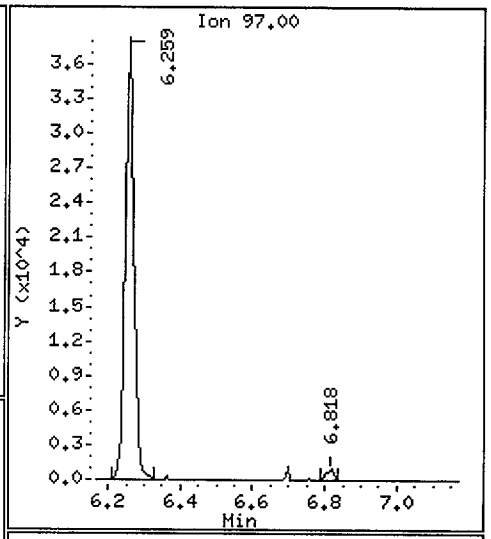
Concentration: 0.0032008 ug

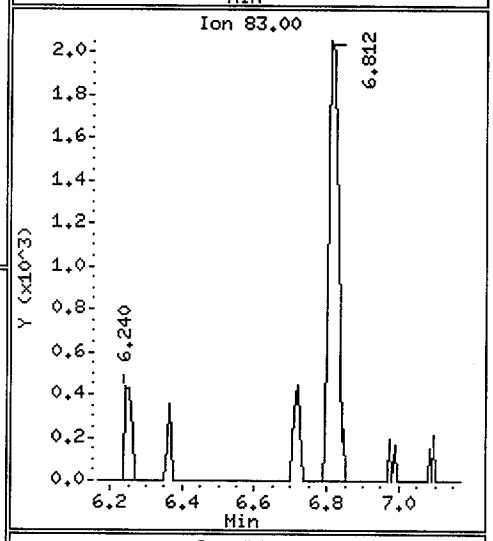


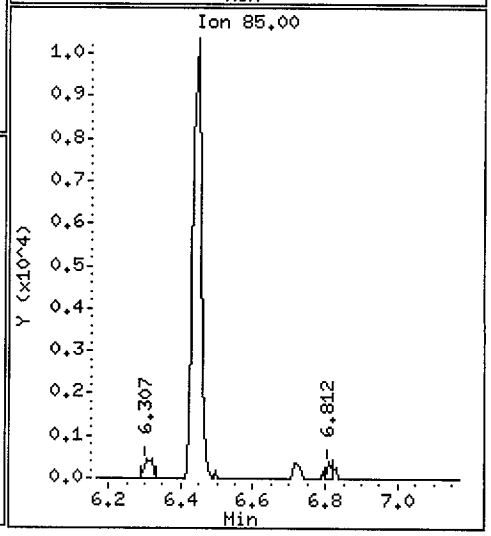












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

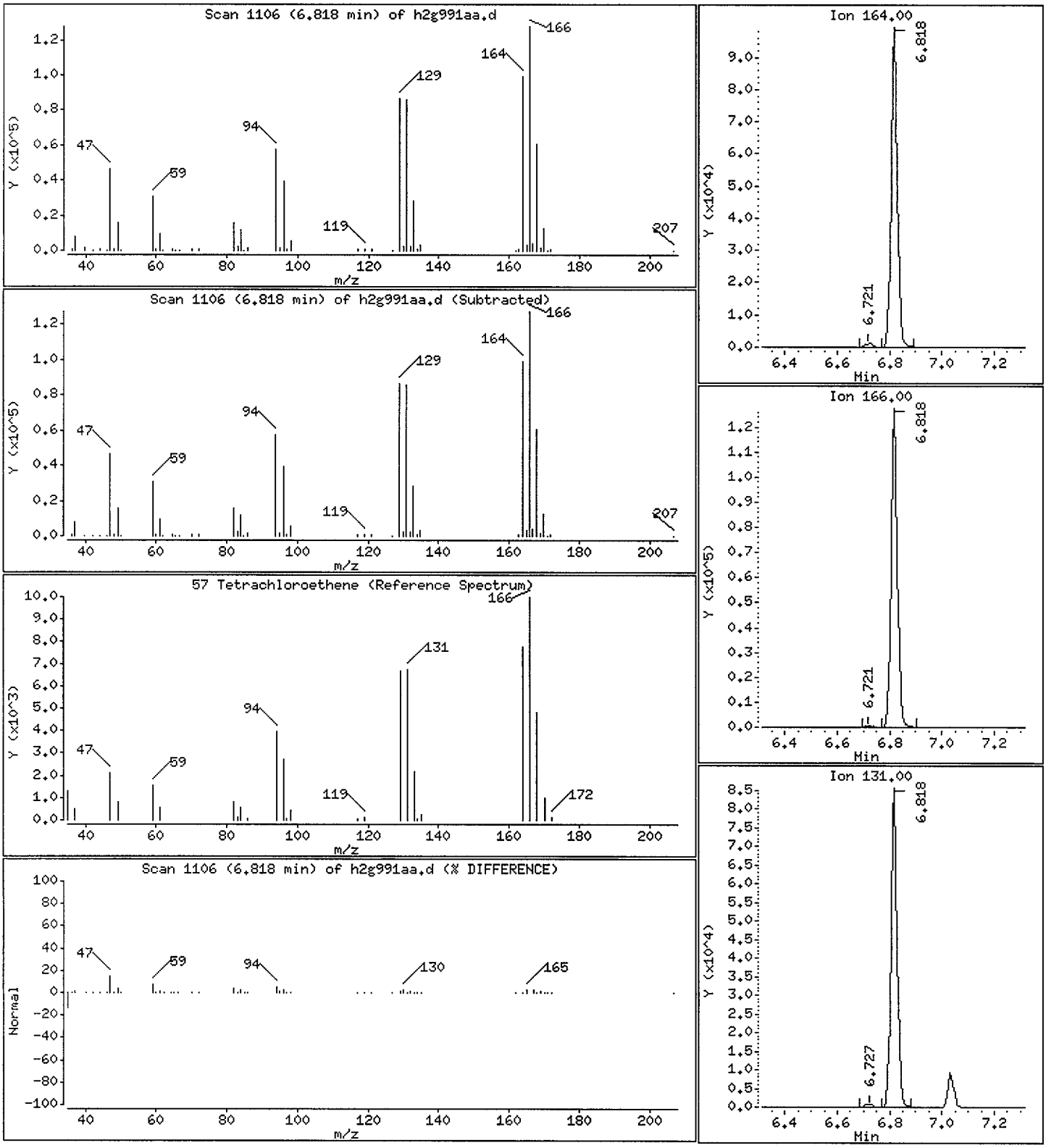
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

57 Tetrachloroethene

Concentration: 0.14192 ug



Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

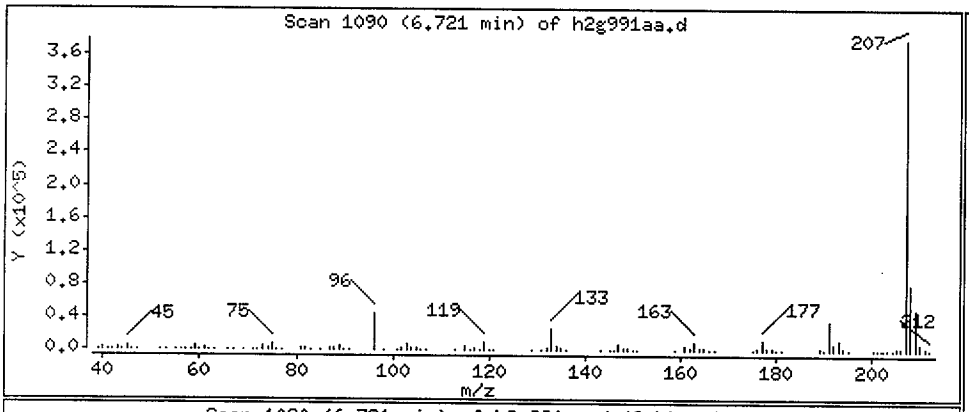
Operator: 22980

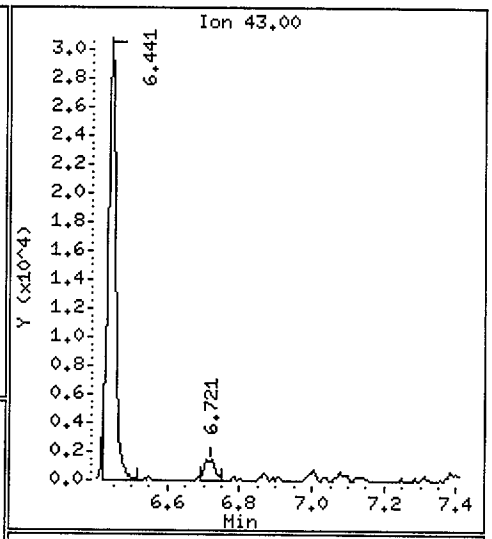
Column phase: J+W 624

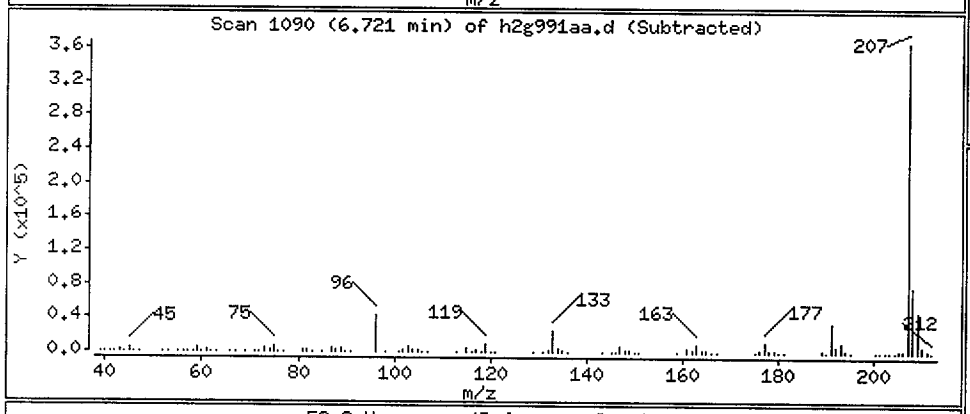
Column diameter: 0.18

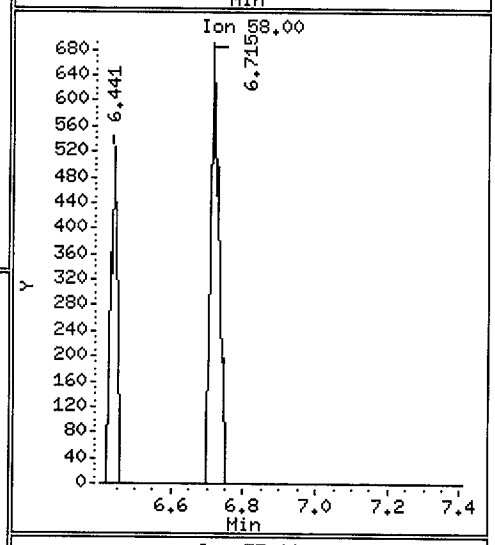
59 2-Hexanone

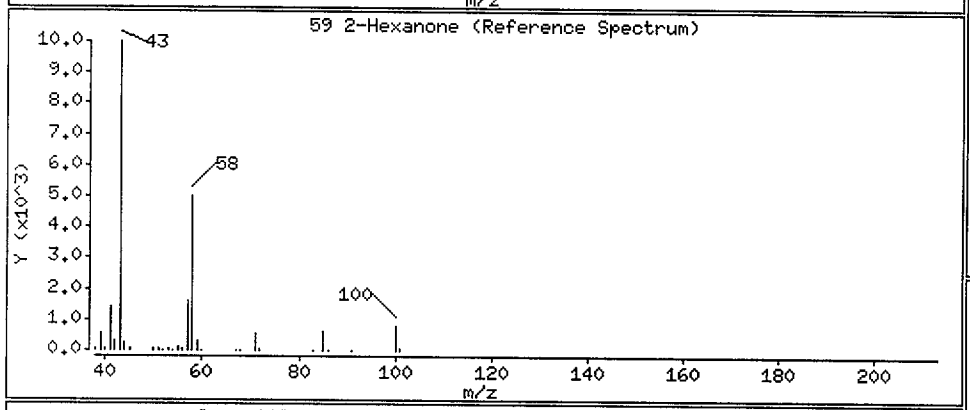
Concentration: 0.017100 ug

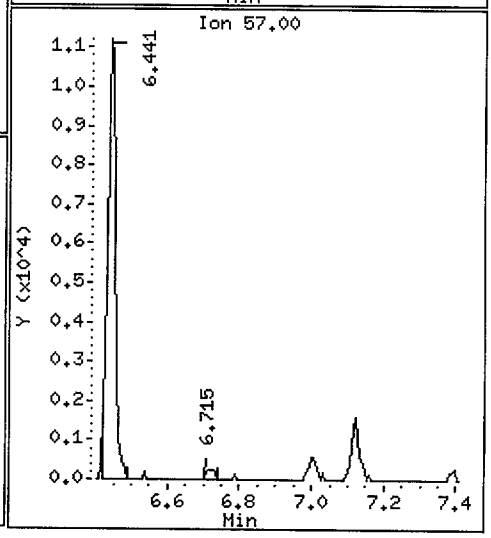


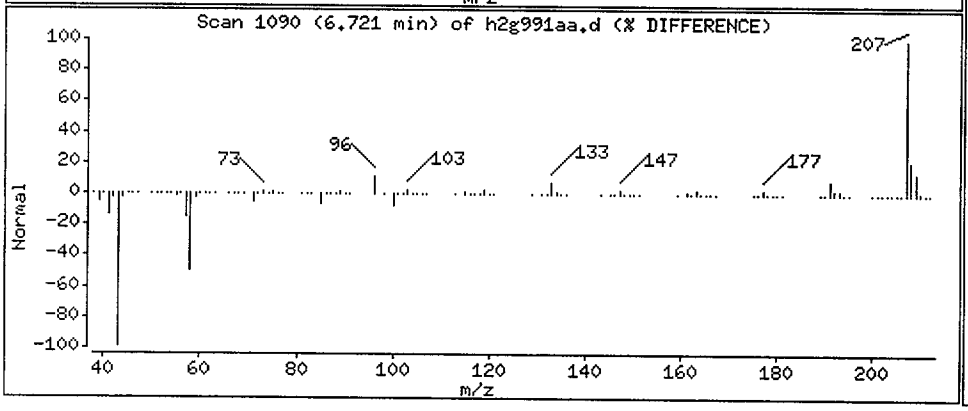












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

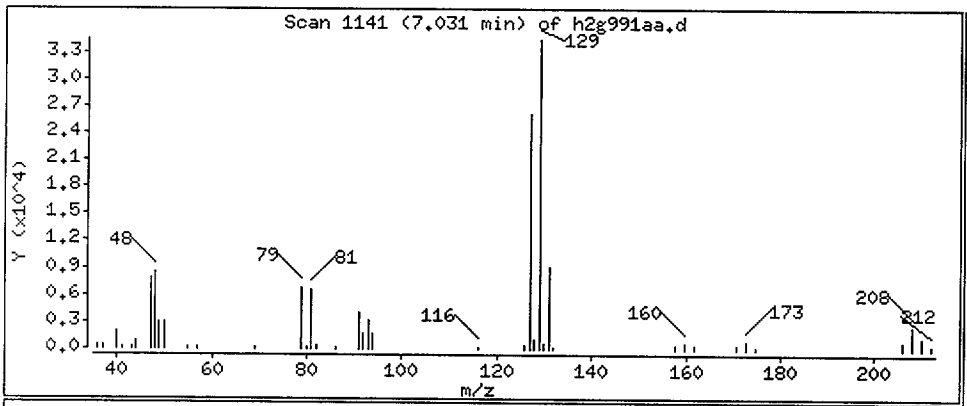
Operator: 22980

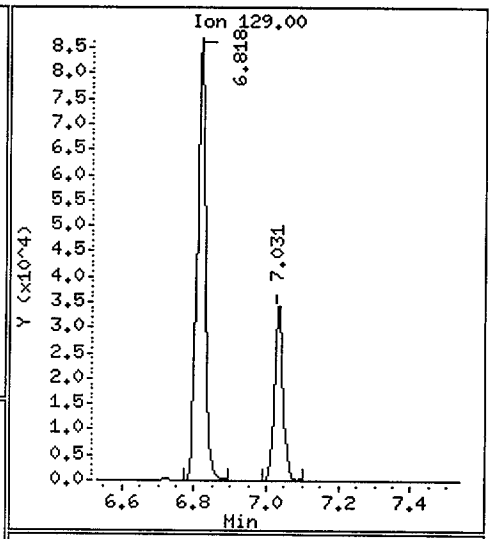
Column phase: J+W 624

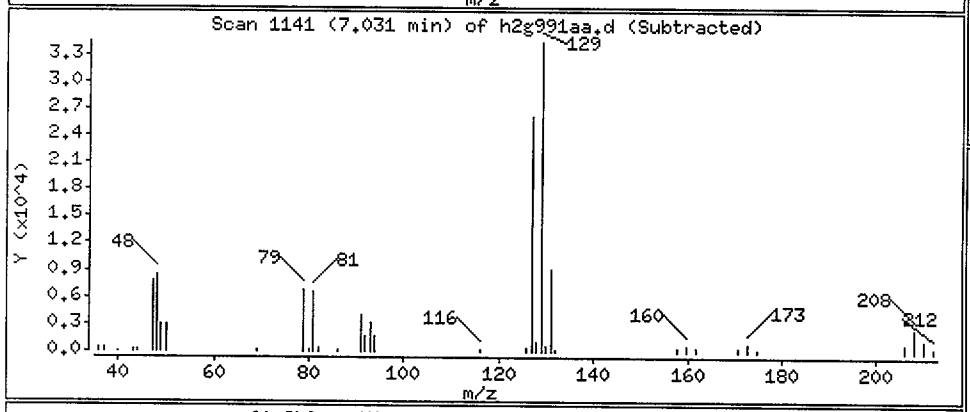
Column diameter: 0.18

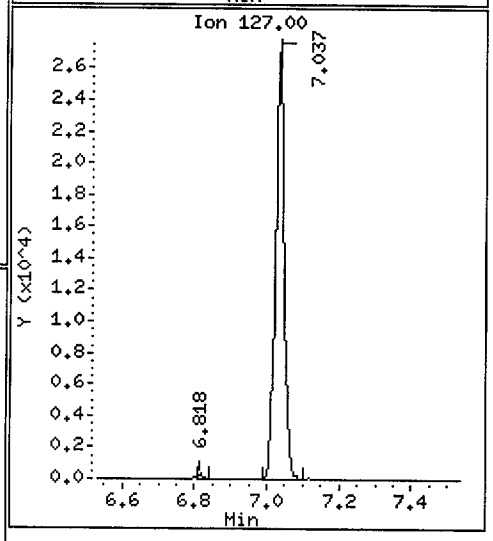
60 Chlorodibromomethane

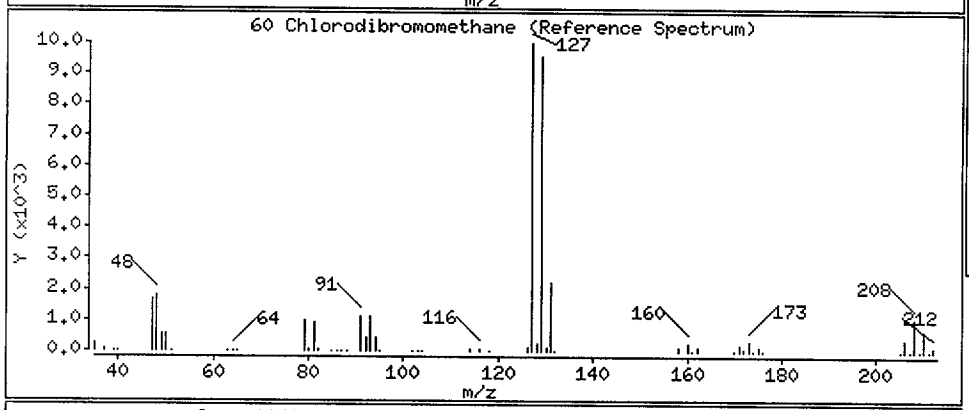
Concentration: 0.11260 ug

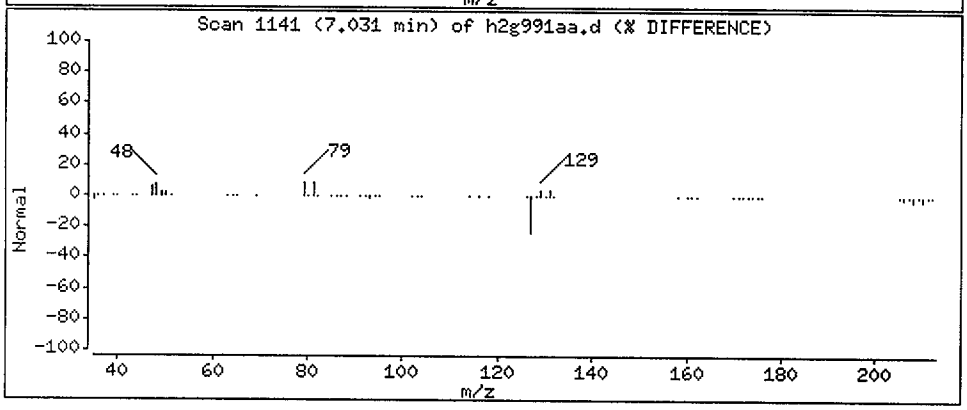












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

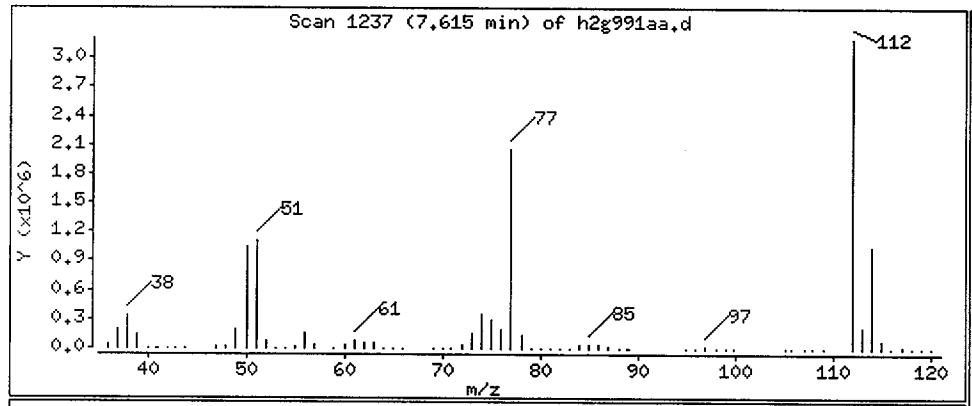
Operator: 22980

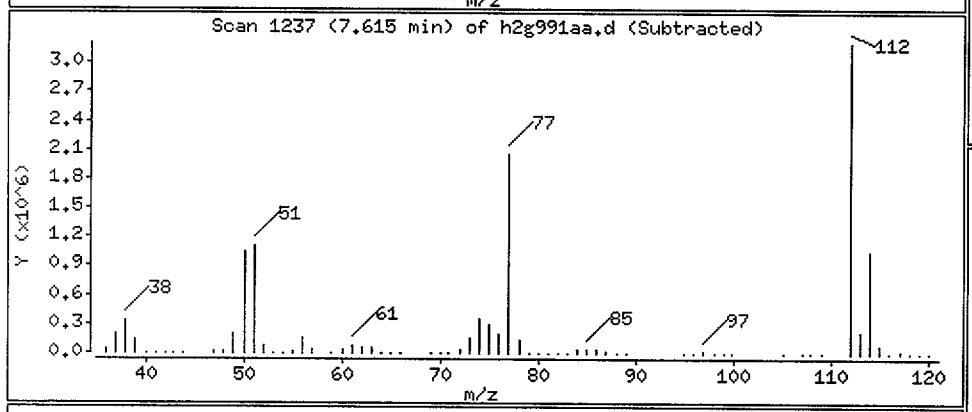
Column phase: J+W 624

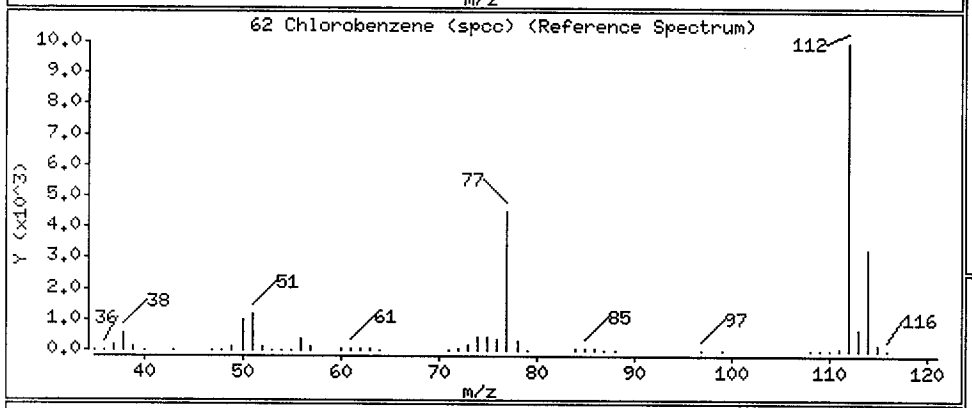
Column diameter: 0.18

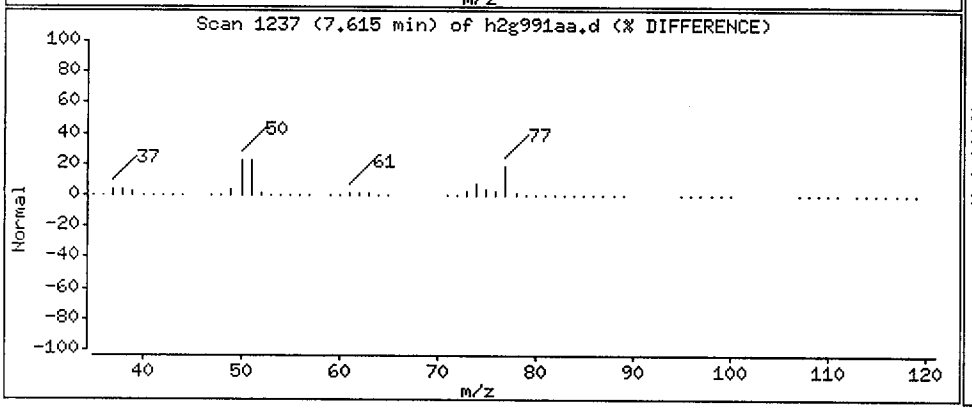
62 Chlorobenzene (spcc)

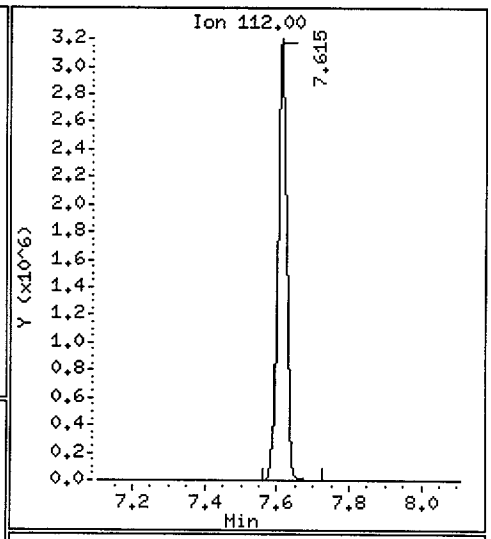
Concentration: 1.9929 ug

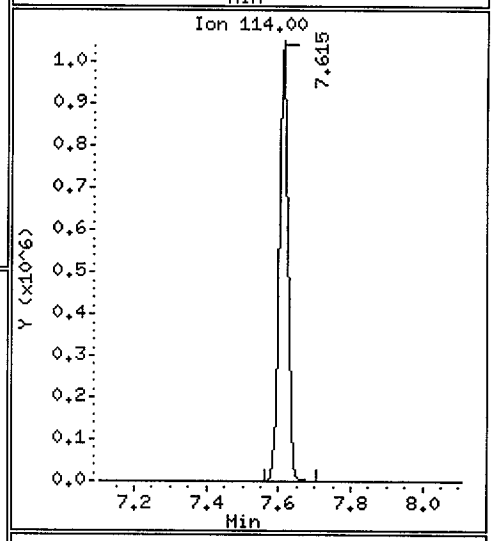


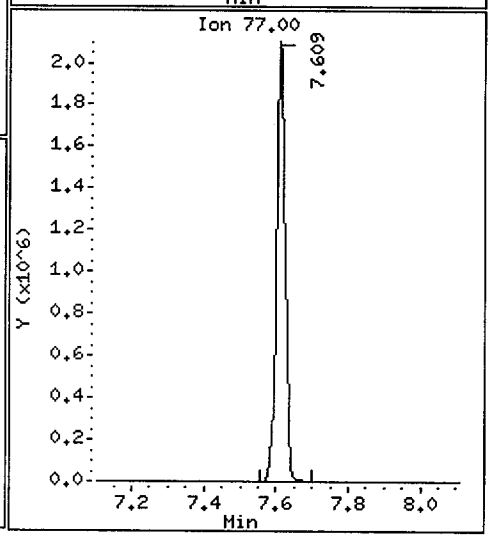












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

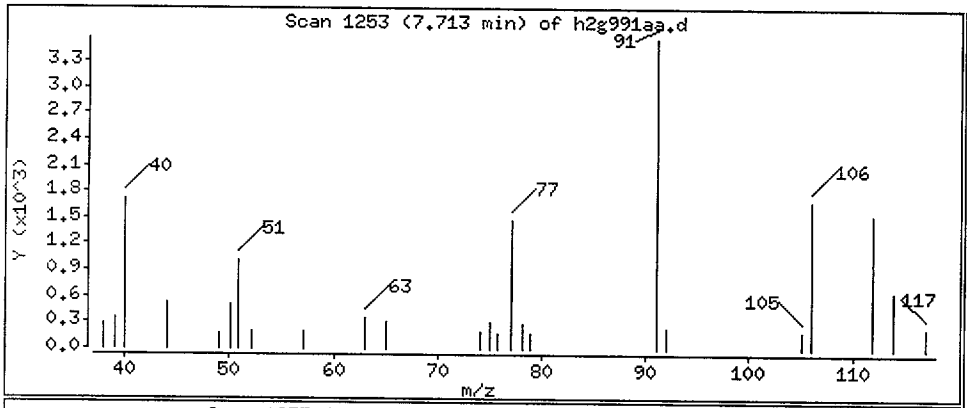
Operator: 22980

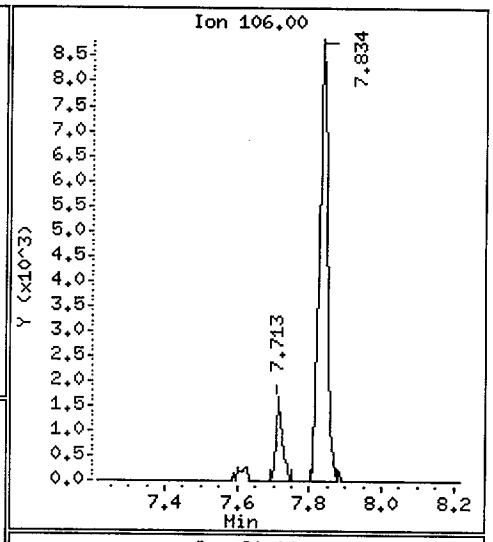
Column phase: J+W 624

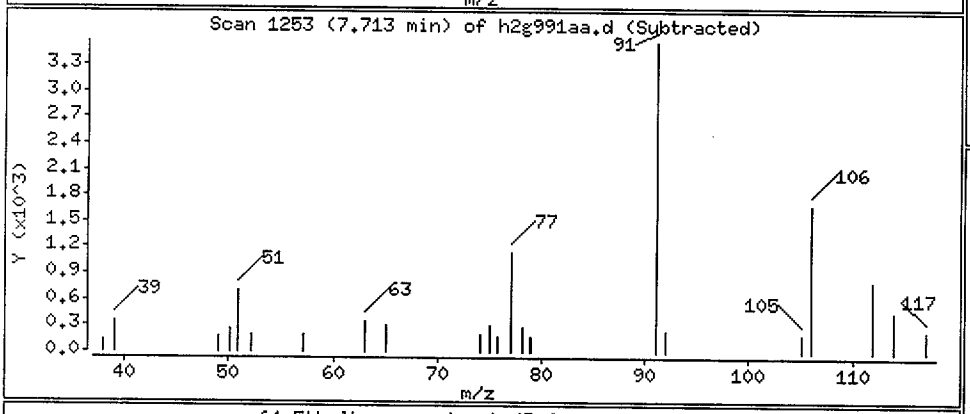
Column diameter: 0.18

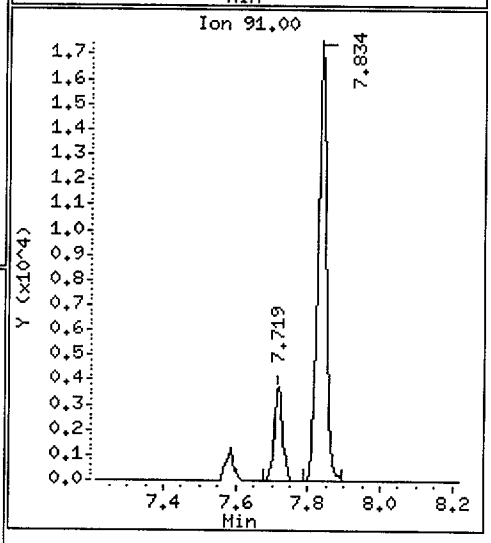
64 Ethylbenzene (ccc)

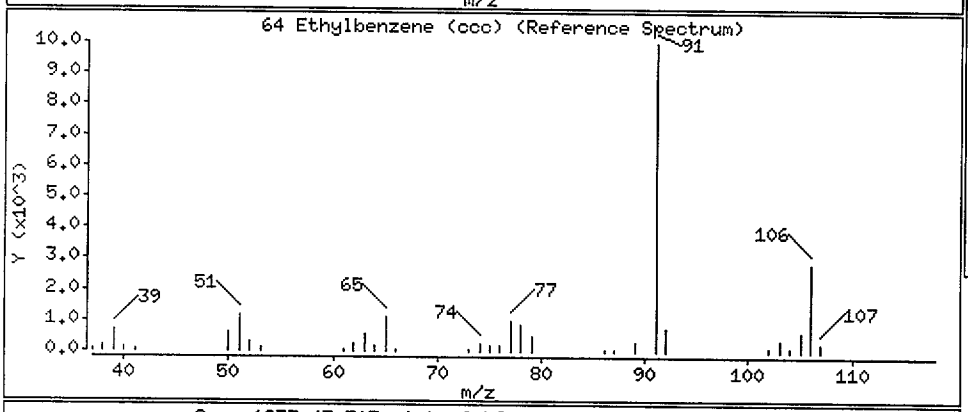
Concentration: 0.0011264 ug

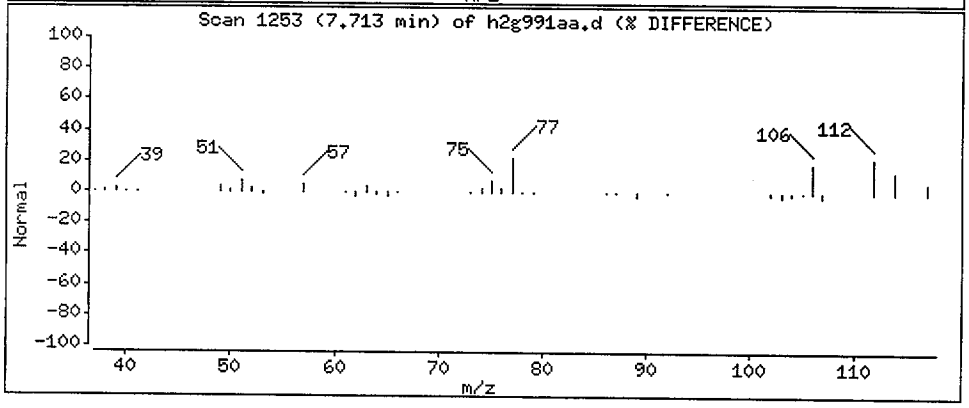












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

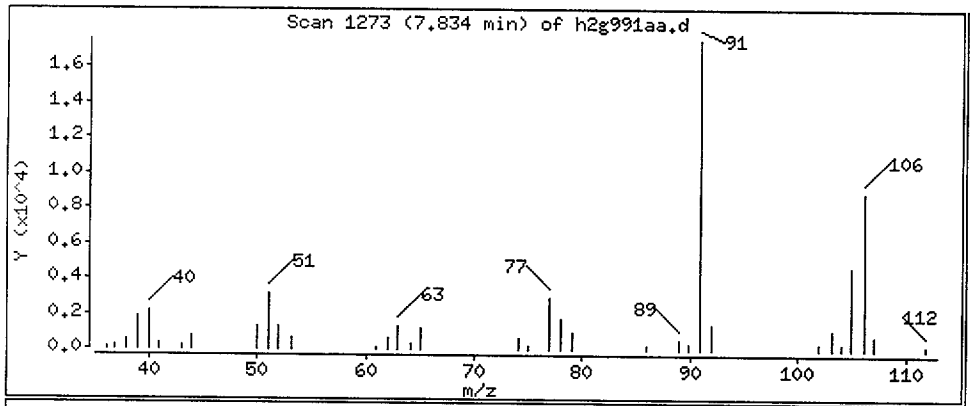
Operator: 22980

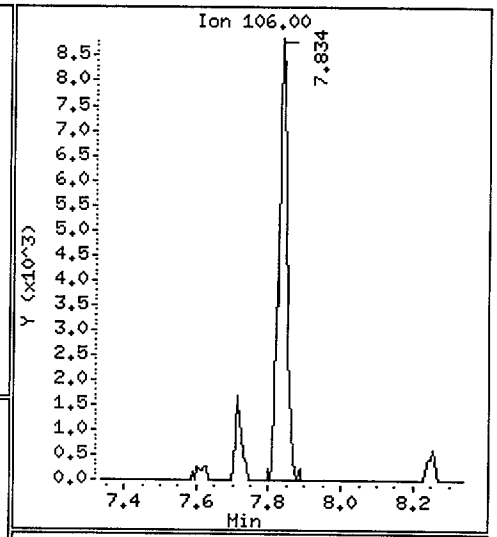
Column phase: J+W 624

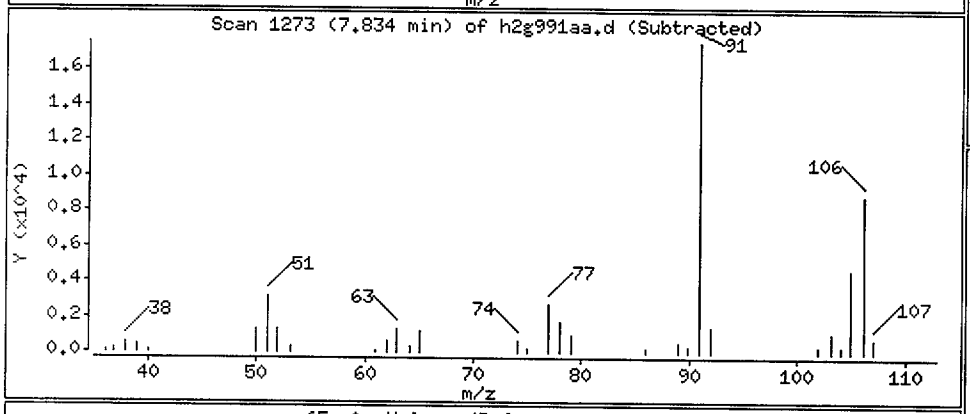
Column diameter: 0.18

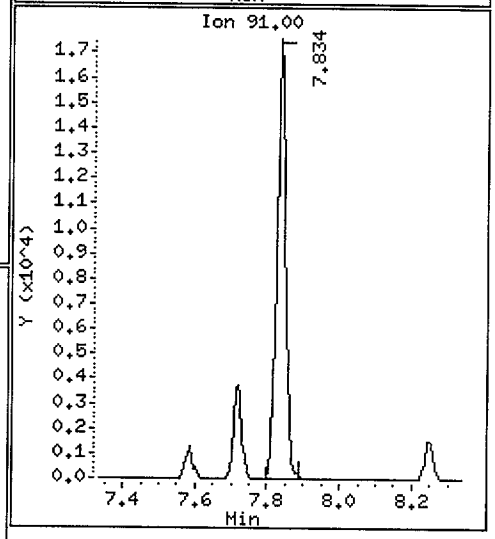
65 m&p-Xylene

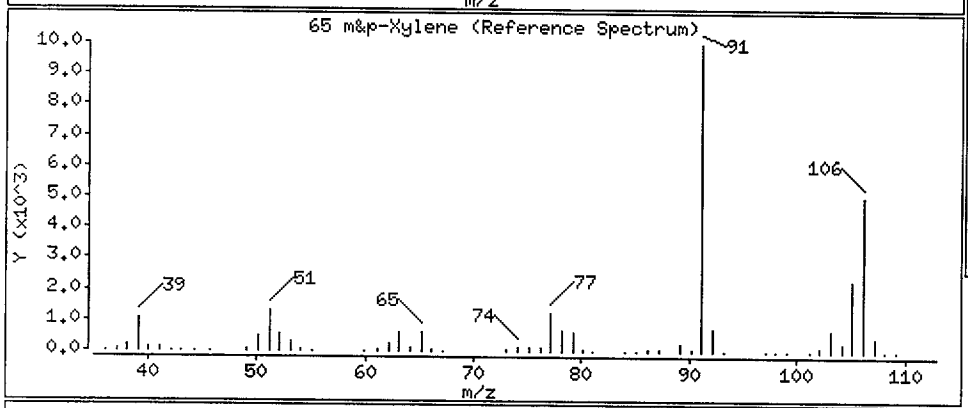
Concentration: 0.0067952 ug

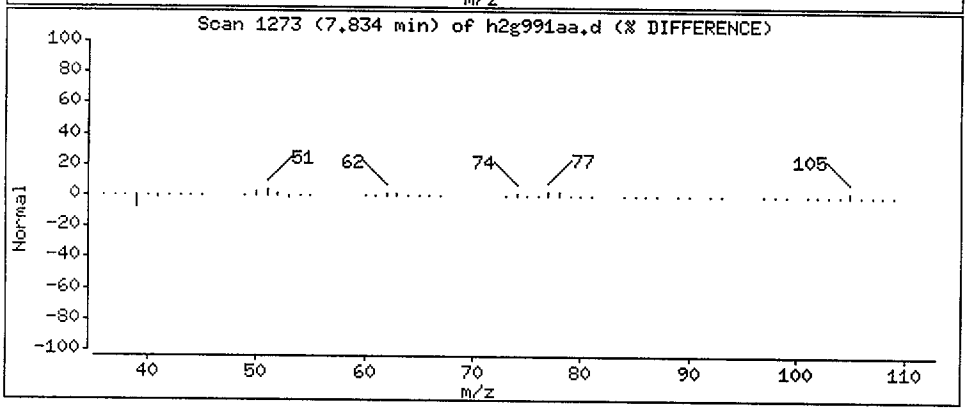












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

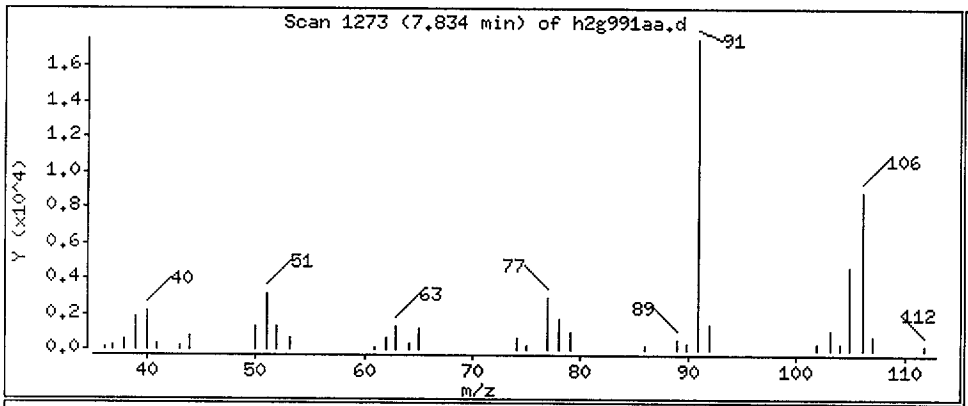
Operator: 22980

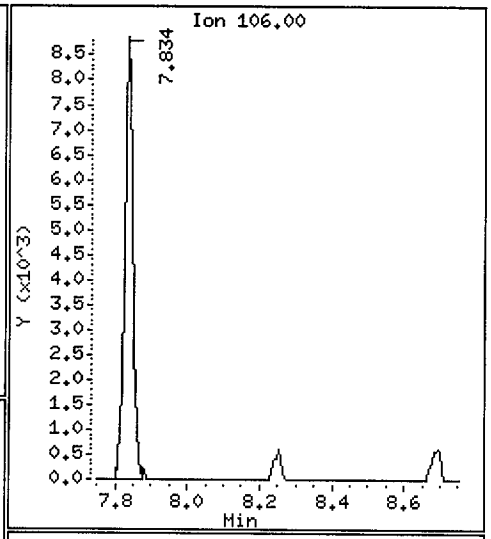
Column phase: J+W 624

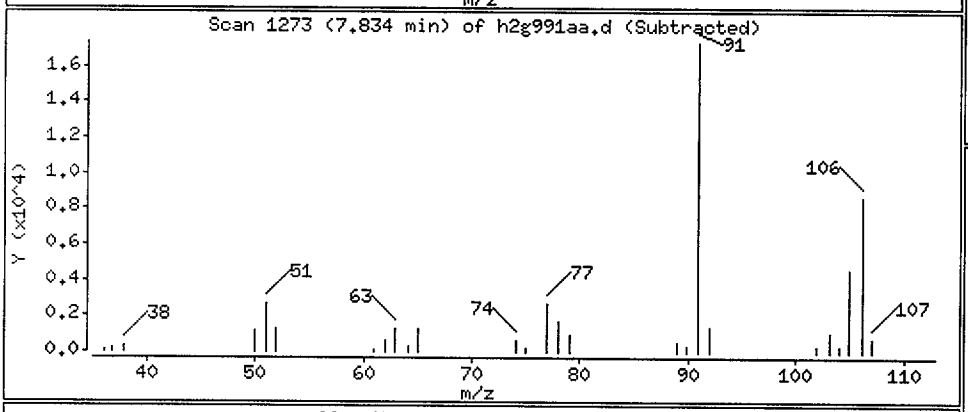
Column diameter: 0.18

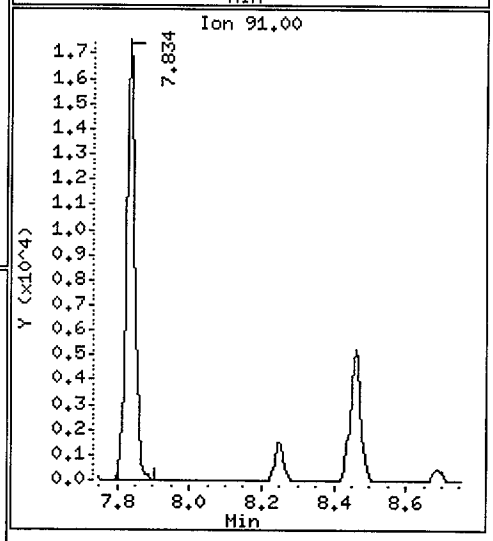
66 o-Xylene

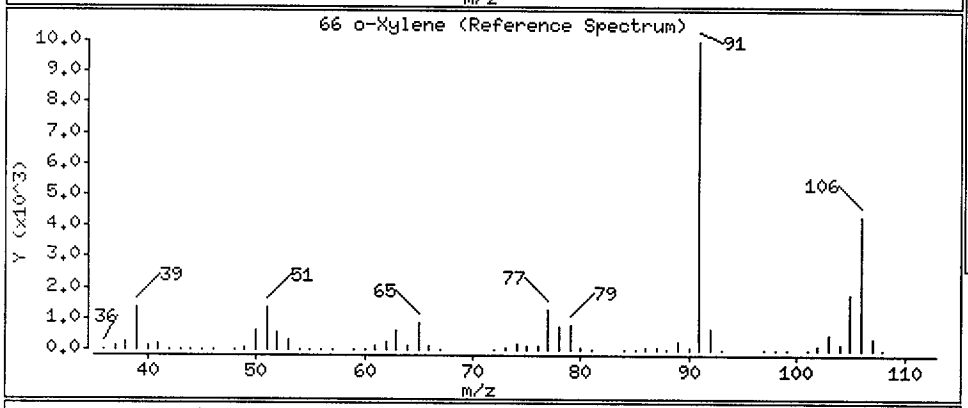
Concentration: 0.0078898 ug

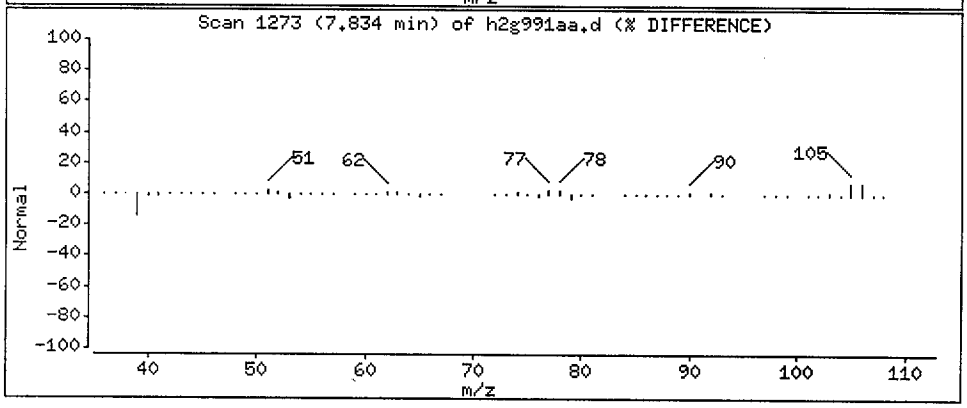












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

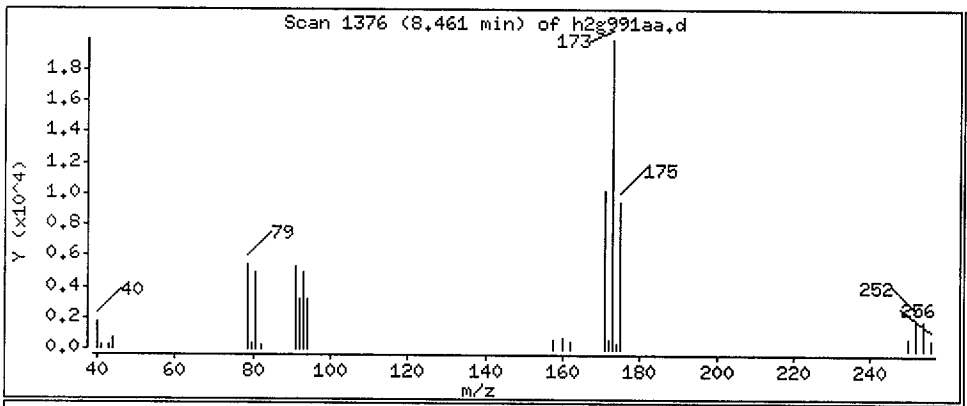
Operator: 22980

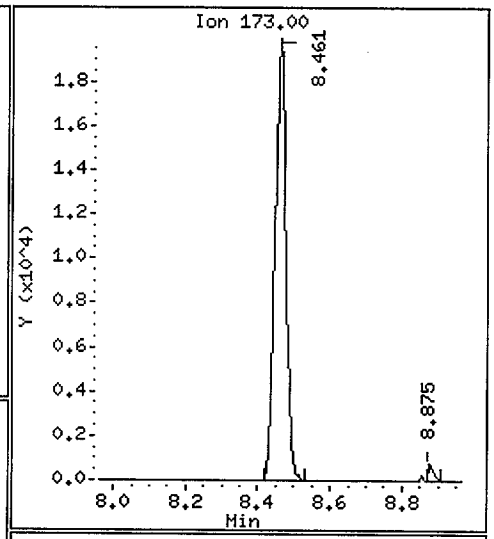
Column phase: J+W 624

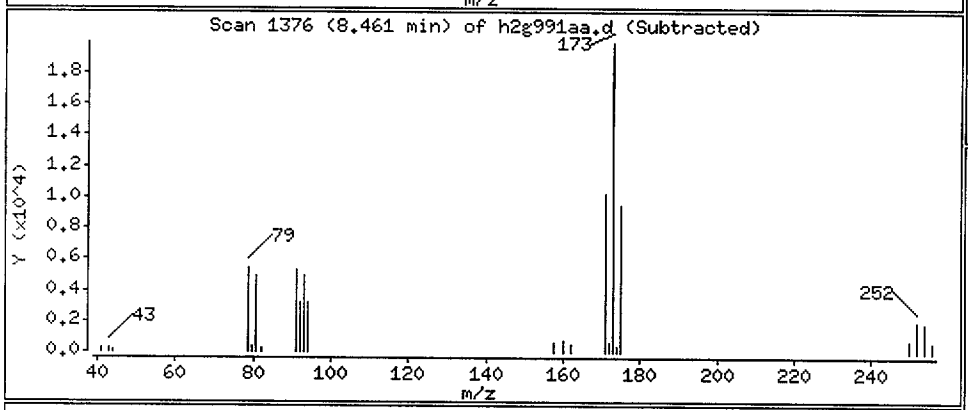
Column diameter: 0.18

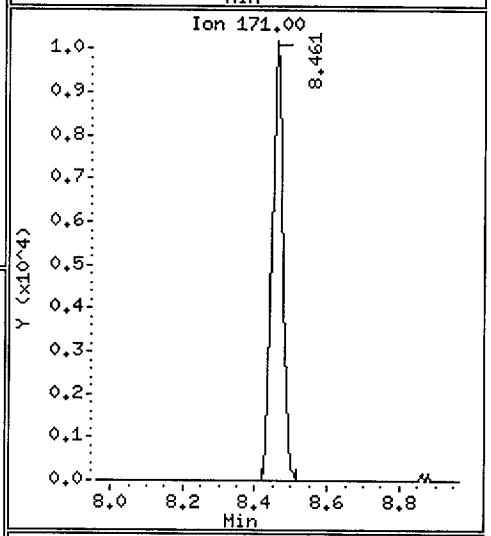
68 Bromoform (spcc)

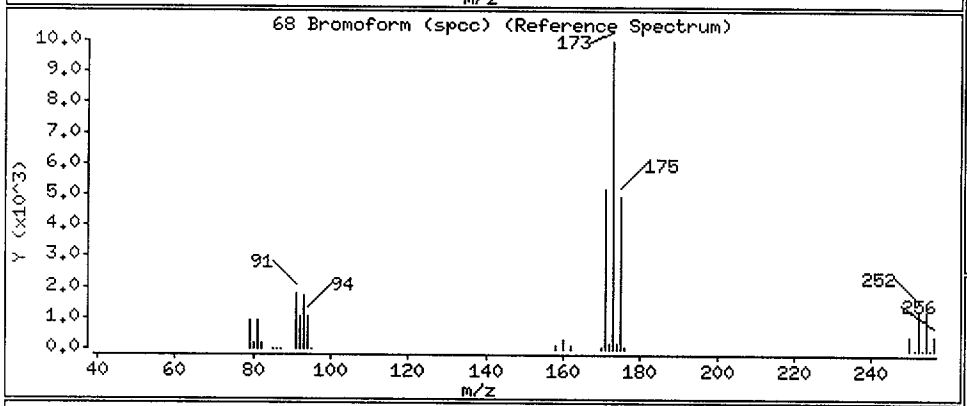
Concentration: 0.16776 ug

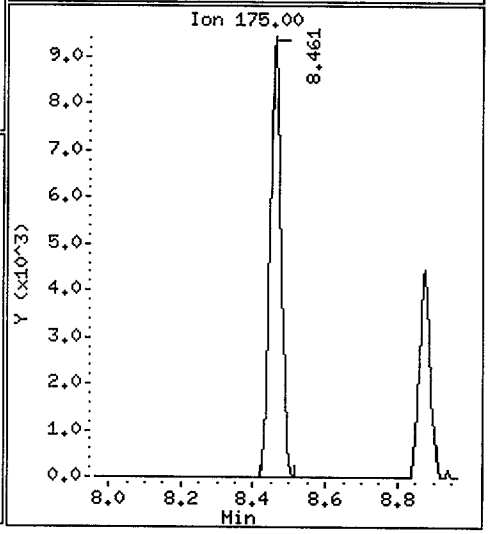


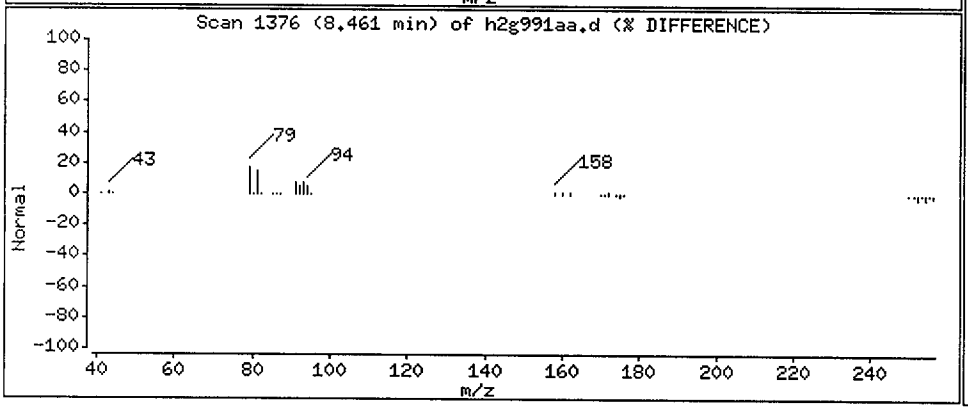












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

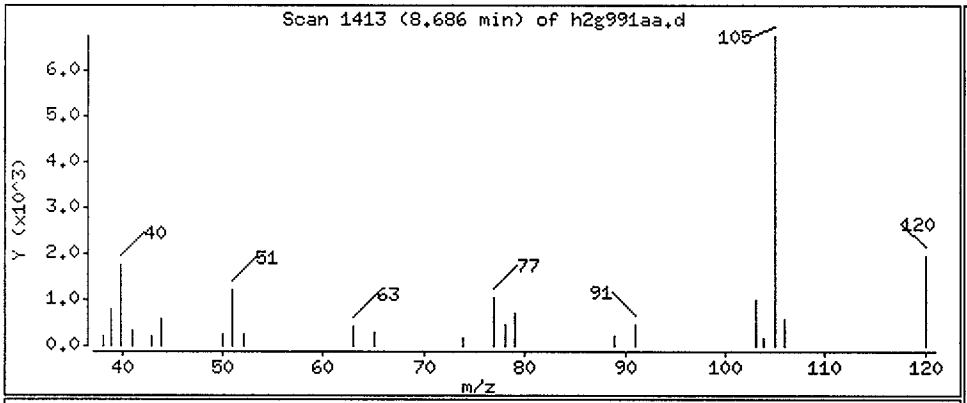
Operator: 22980

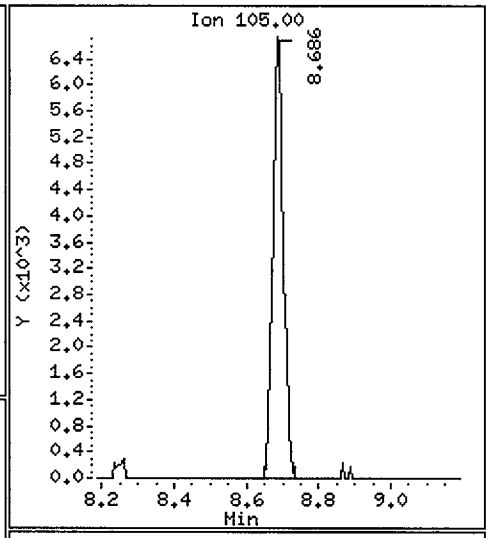
Column phase: J+W 624

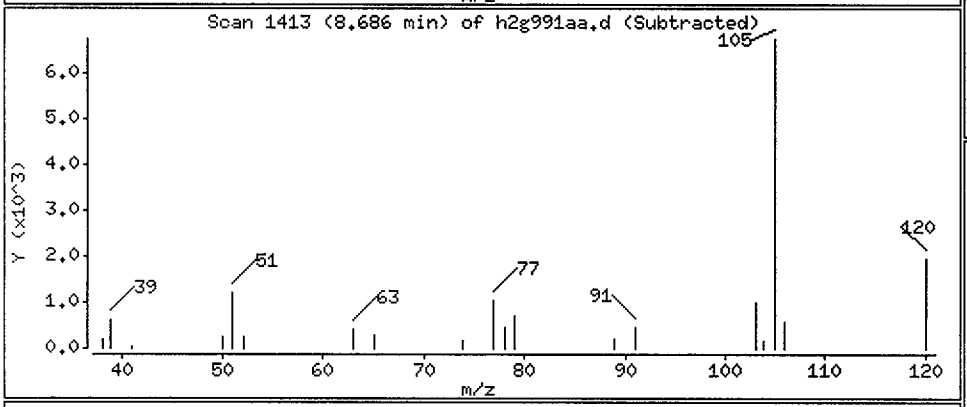
Column diameter: 0.18

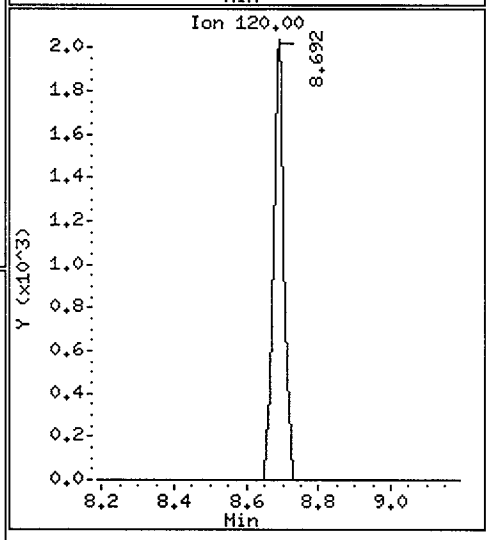
69 Isopropylbenzene

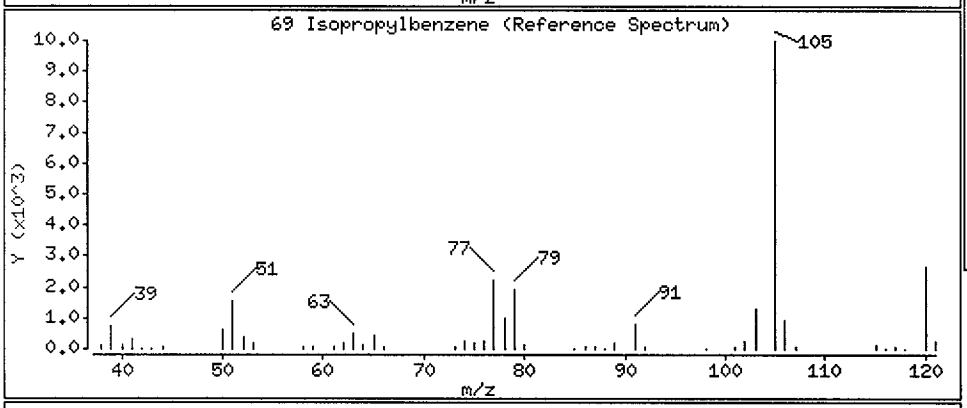
Concentration: 0.0022894 ug

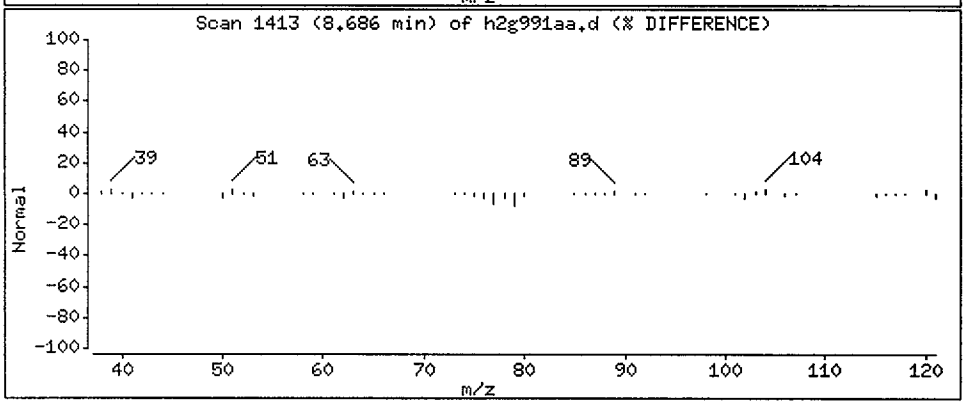












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

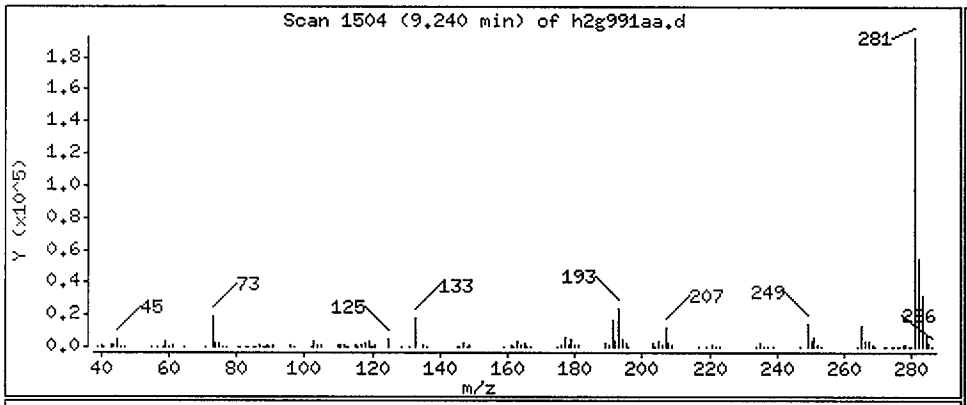
Operator: 22980

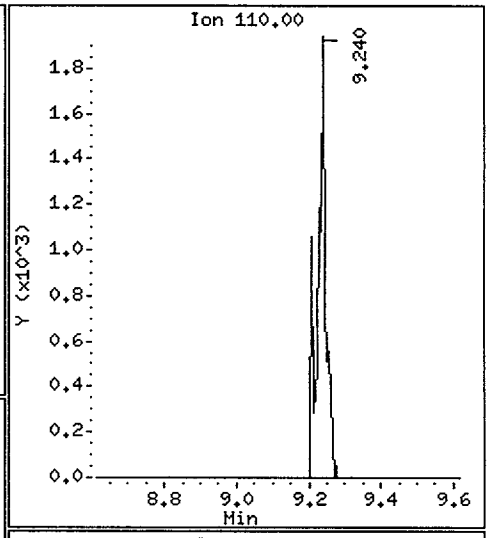
Column phase: J+W 624

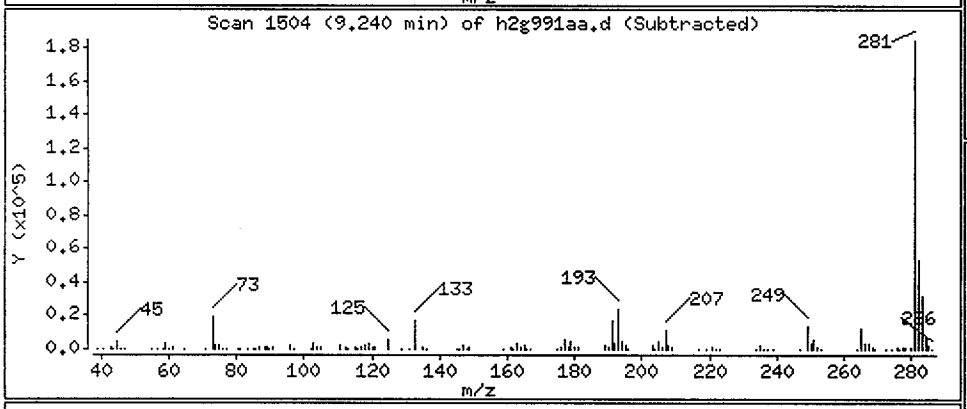
Column diameter: 0.18

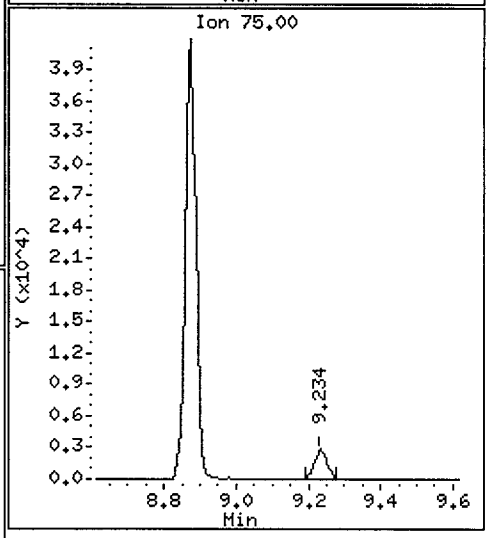
73 1,2,3-Trichloropropane

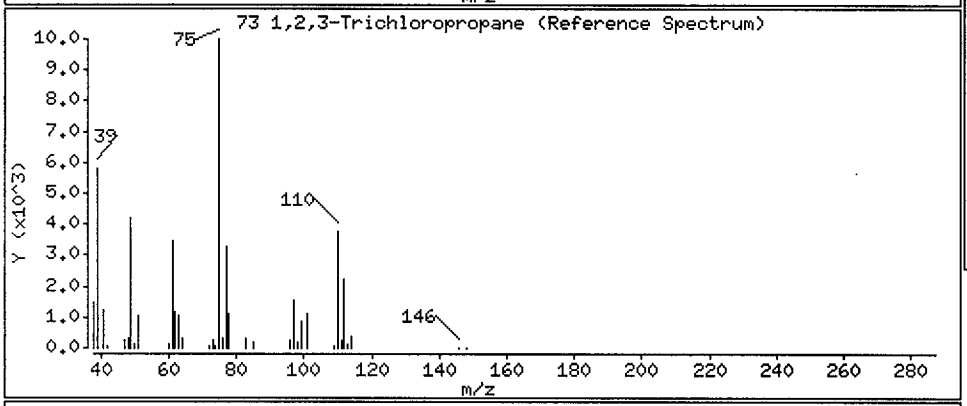
Concentration: 0.031996 ug

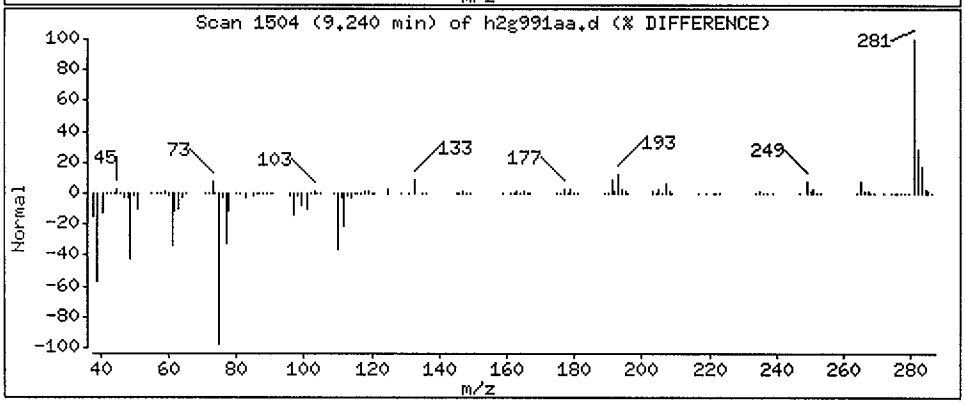












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

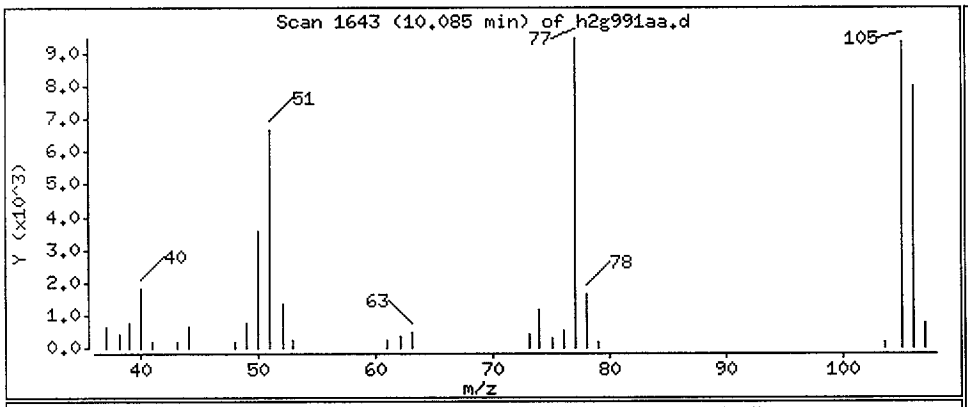
Operator: 22980

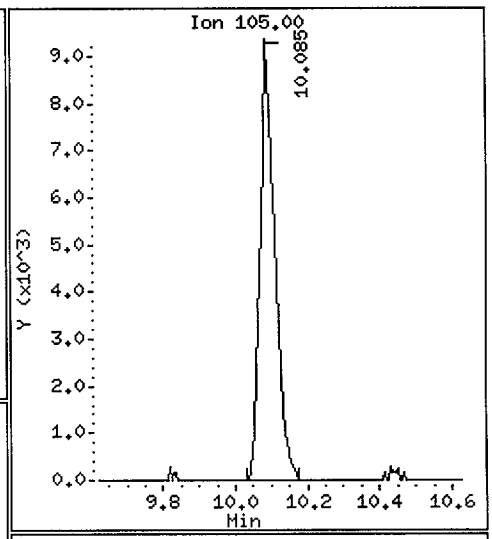
Column phase: J+W 624

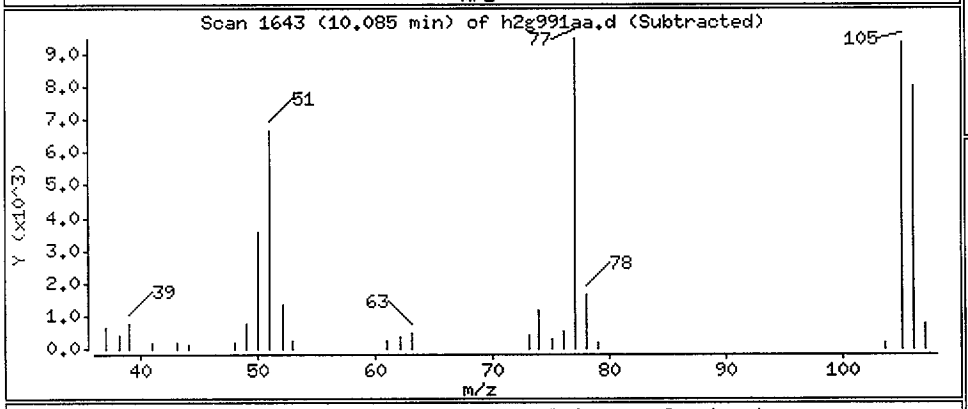
Column diameter: 0.18

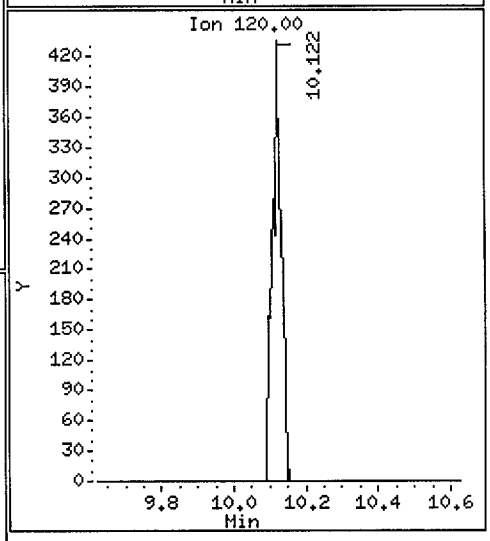
80 1,2,4-Trimethylbenzene

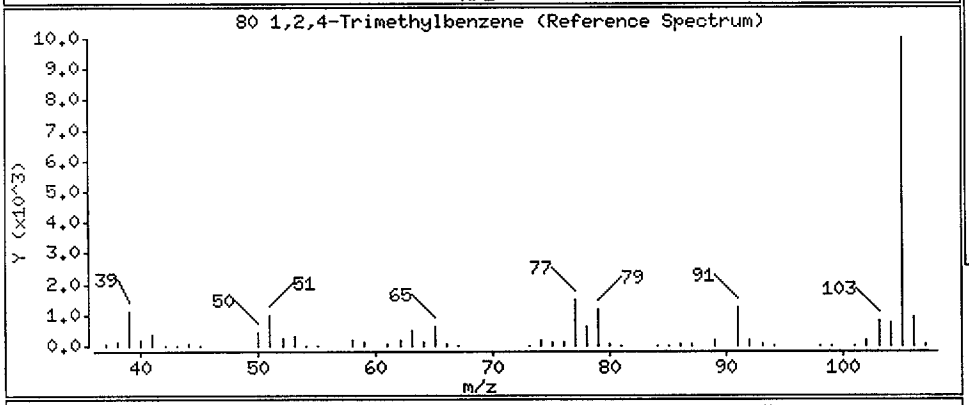
Concentration: 0.0083754 ug

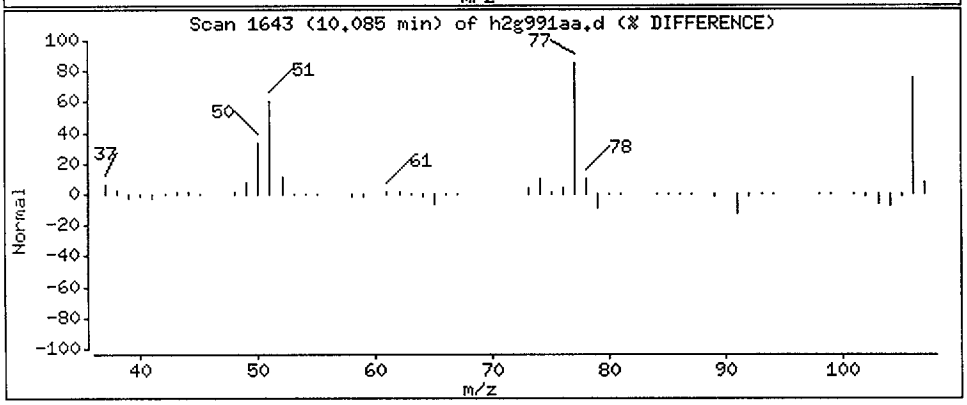












Data File: /chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G991AA,1,0,,,

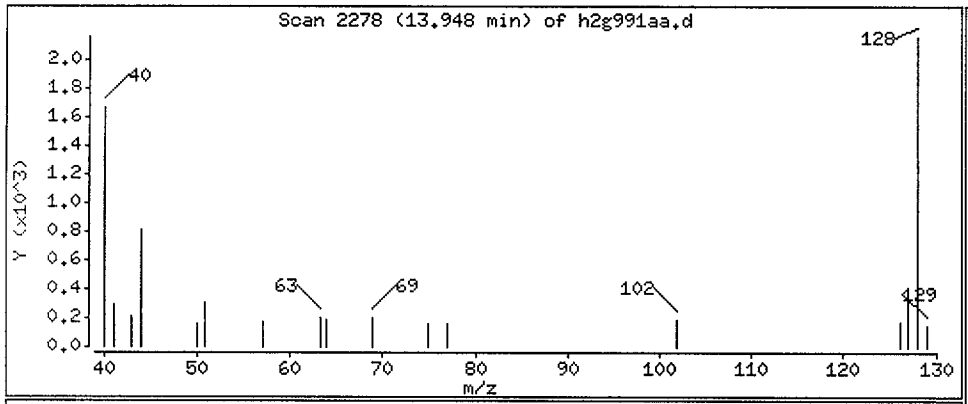
Operator: 22980

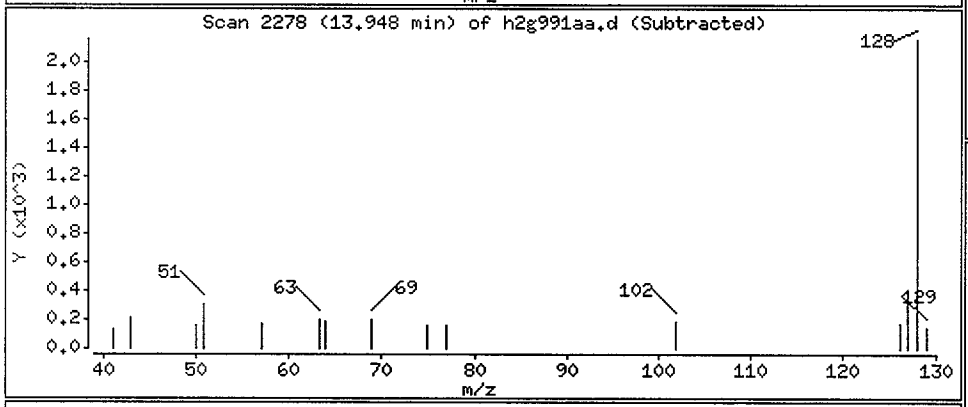
Column phase: J+W 624

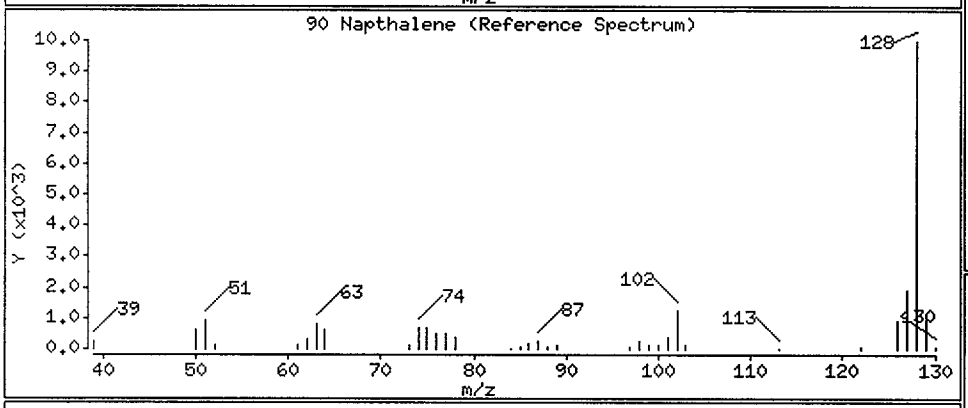
Column diameter: 0.18

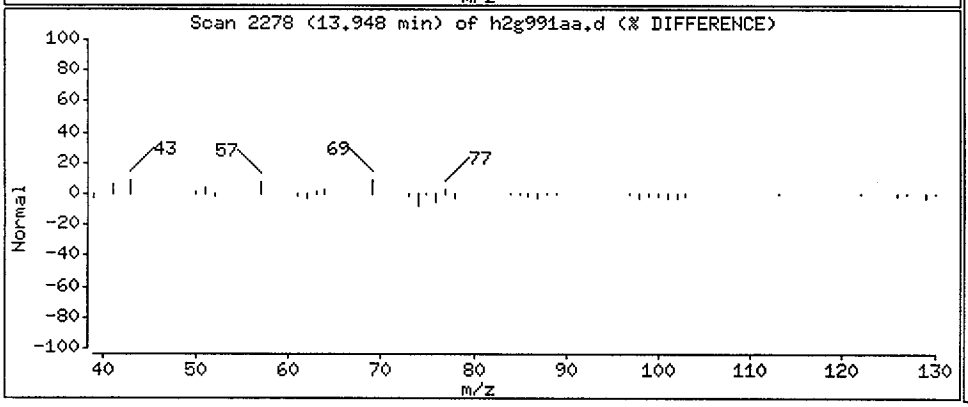
90 Napthalene

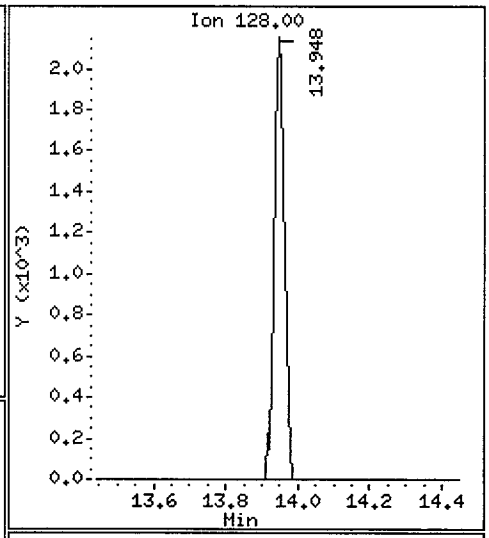
Concentration: 0.010027 ug

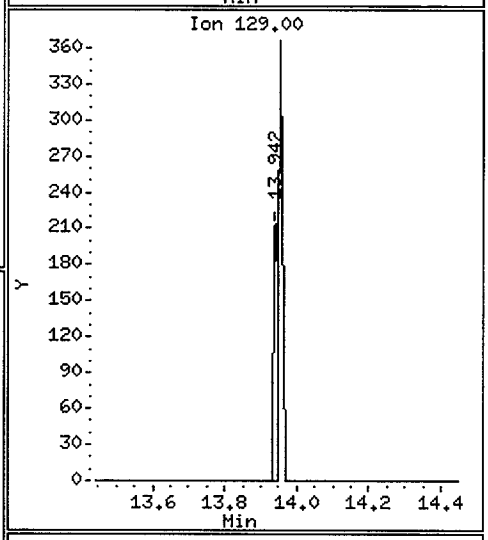


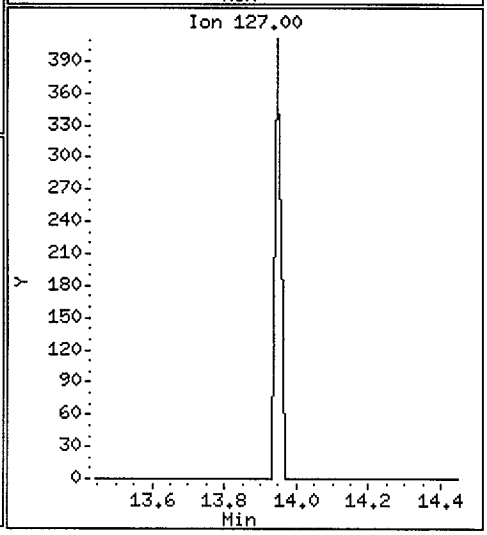












Data File: /var/chem/gcms/mx.i/X040706.b/h2g991aa.d
Report Date: 18-Apr-2006 14:55

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2g991aa.d
Lab Smp Id: H2G991AA Client Smp ID: G-3012-R2-VOST PAIR
Inj Date : 07-APR-2006 14:17
Operator : 22980 Inst ID: mx.i
Smp Info : H2G991AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.748	579538	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl- Si					CAS #: 556-67-2			
	9.240	543076	9.37084367	0.23427	90	NIST02.1	115616	3
Benzeneethanamine, N-[(pentafluorophenyl Si					CAS #: 55429-85-1			
	12.446	172883	2.98311759	0.074578	50	NIST02.1	166788	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

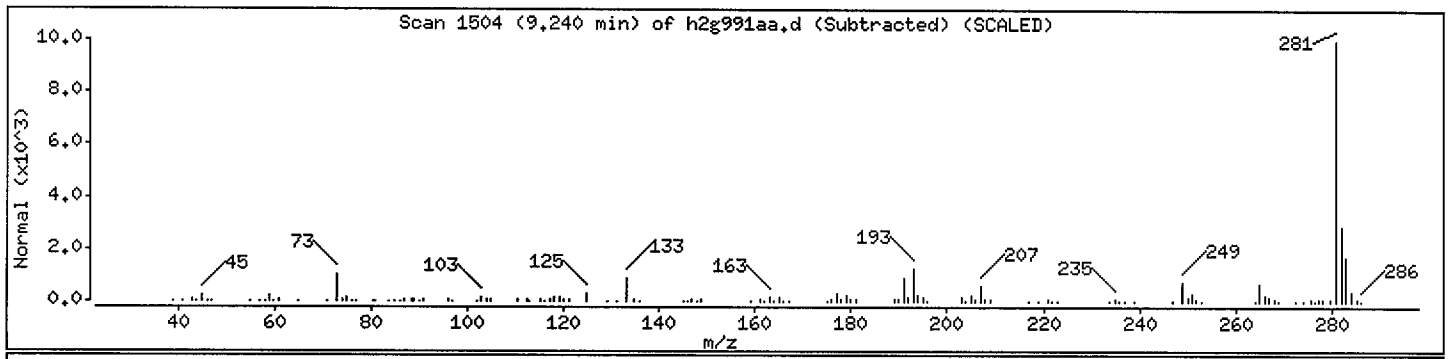
Sample Info: H2G991AA,1,0,,,

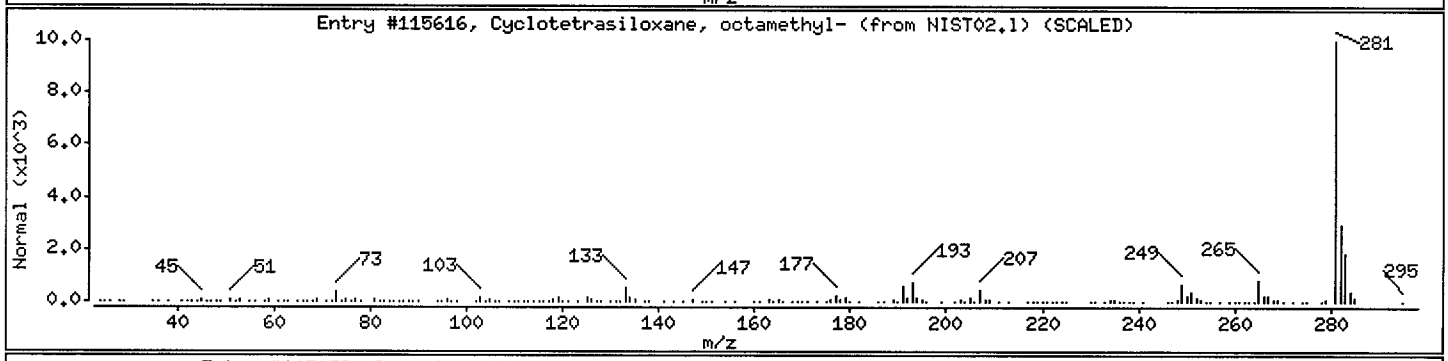
Operator: 22980

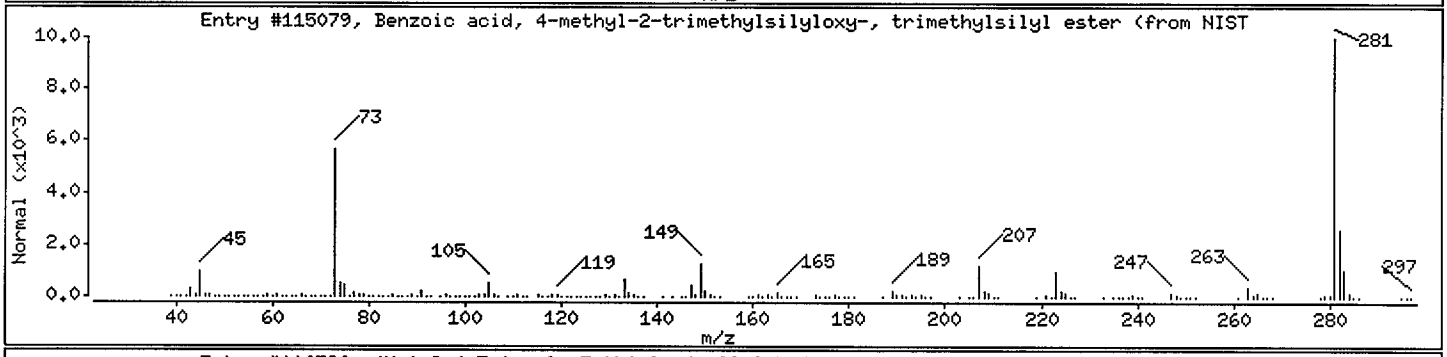
Column phase: J+W 624

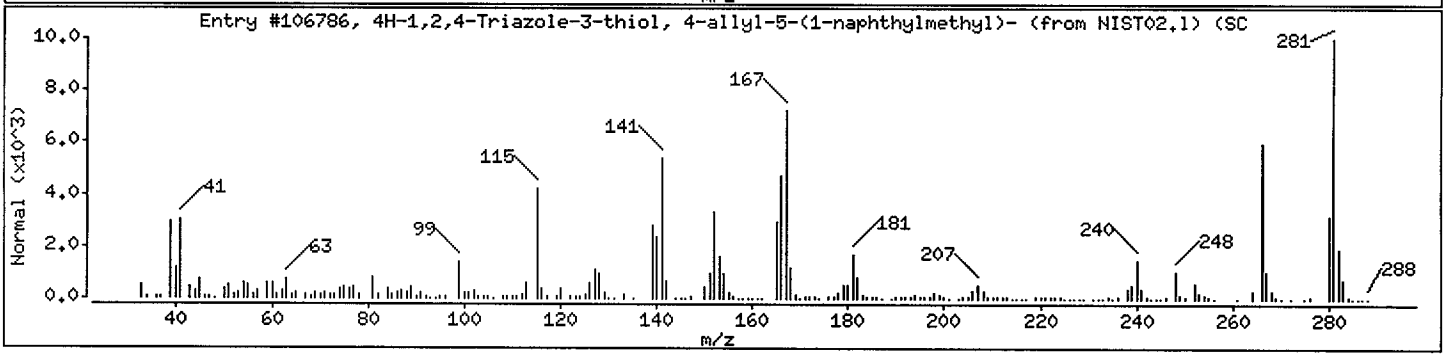
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.l	115616	90	C8H24O4Si4	296
Benzoic acid, 4-methyl-2-trimethylsilylo	1000153-59-3	NIST02.l	115079	59	C14H24O3Si2	296
4H-1,2,4-Triazole-3-thiol, 4-allyl-5-(1-	31803-13-1	NIST02.l	106786	43	C16H15N3S	281









Data File: /var/chem/gcms/mx.i/X040706.b/h2g991aa.d

Date : 07-APR-2006 14:17

Client ID: G-3012-R2-VOST PAIR

Instrument: mx.i

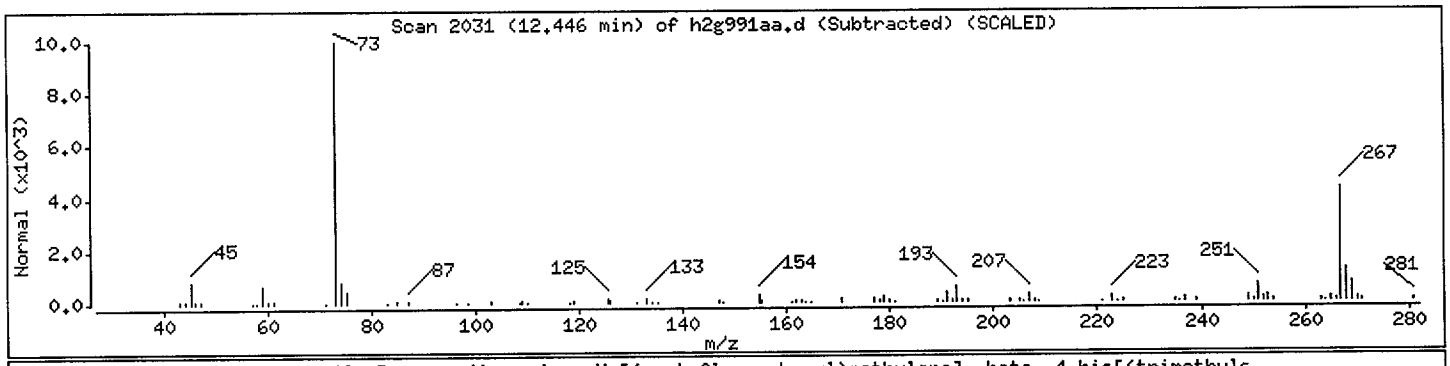
Sample Info: H2G991AA,1,0,,,

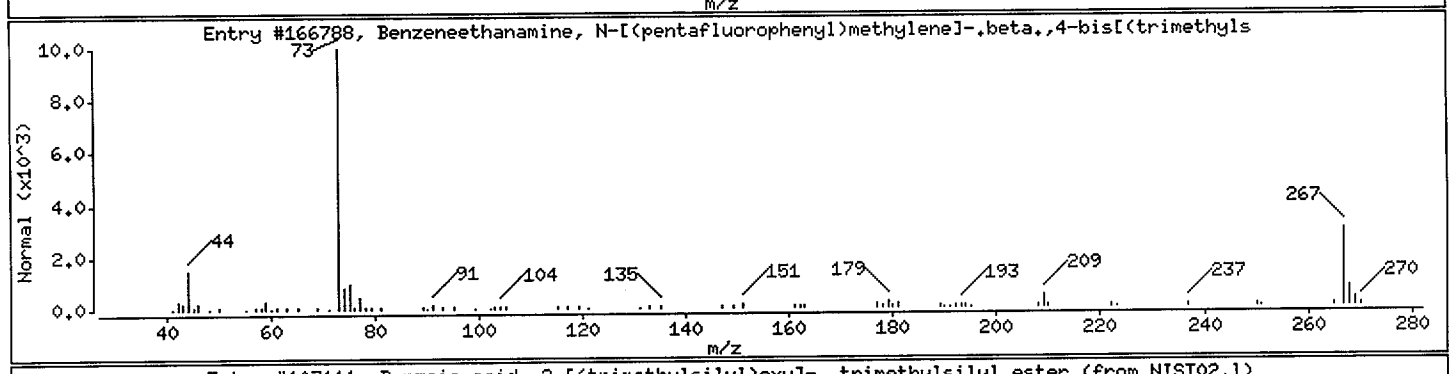
Operator: 22980

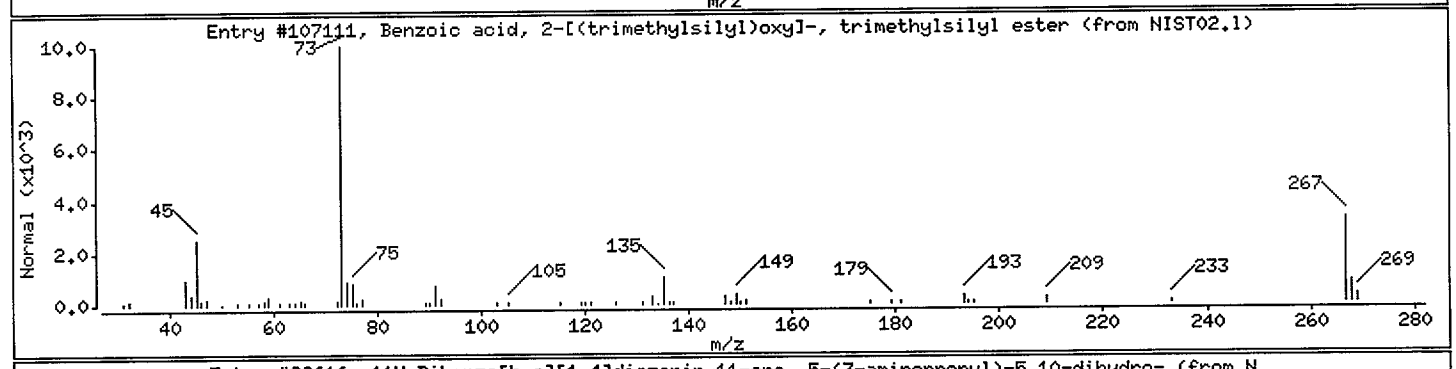
Column phase: J+W 624

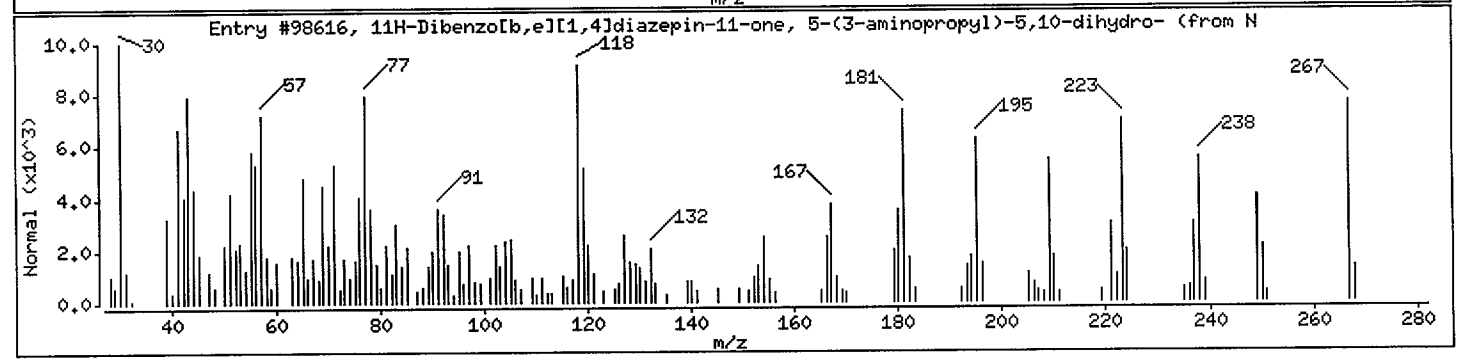
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.l	166788	50	C21H26F5NO2Si2	475
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.l	107111	39	C13H22O3Si2	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.l	98616	37	C16H17N3O	267









STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.024 J**	**0.025**	**ug**	**0.0066**
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0031 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.012**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.018 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.010 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0074 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-019 **Work Order #:** H2HAA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Lab Smp Id: H2HAA1AA Client Smp ID: G-3013-R2-VOST PAIR
Inj Date : 07-APR-2006 15:57
Operator : 22980 Inst ID: mz.i
Smp Info : H2HAA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.674	5.676	(1.000)	761687	10.0000	
* 2 Chlorobenzene-d5	119	8.941	8.937	(1.000)	173301	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.496	11.492	(1.000)	232613	10.0000	
$ 4 Dibromofluoromethane	113	4.835	4.831	(0.852)	131497	10.7741	0.26935
$ 5 1,2-Dichloroethane-d4	65	5.242	5.238	(0.924)	107316	10.1681	0.25420
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	716004	9.40310	0.23508
$ 7 4-Bromofluorobenzene	95	10.127	10.129	(0.881)	206585	8.80616	0.22015
10 Dichlorodifluoromethane	85	1.014	1.016	(0.179)	7527	0.40488	0.010122
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	54805	0.70936	0.017734
15 Bromomethane	94	1.416	1.418	(0.250)	1127	0.97299	0.024325
16 Chloroethane	64	1.519	1.485	(0.268)	10725	0.75502	~~0.018875~~
18 Trichlorofluoromethane	101	1.671	1.673	(0.295)	2777	0.11929	0.0029823
22 Acetone	43	2.128	2.123	(0.375)	2334	3.75645	0.093911
23 *Iodomethane	142	2.188	2.184	(0.386)	515	0.54816	0.013704
24 Carbon Disulfide	76	2.231	2.239	(0.393)	7235	0.12382	0.0030955
27 Methylene Chloride	84	2.511	2.513	(0.442)	4036	0.31690	0.0079225

DW 4-14-06

19

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

JWW 4.14.06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
39 *THF	42	4.537	4.532	(0.800)	1270	0.70325	0.017581
44 Benzene	78	5.297	5.305	(0.934)	9057	0.12058	0.0030146
45 1,2-Dichloroethane	62	5.674	5.335	(1.000)	12720	0.79970	~~0.019992~~
46 Trichloroethene	130	6.118	6.114	(1.078)	6230	0.29489	0.0073723
53 4-Methyl-2-pentanone	43	7.463	7.386	(1.315)	5759	0.86591	~~0.021648~~
54 Toluene (ccc)	91	7.536	7.532	(0.843)	7922	0.08033	0.0020082
55 trans-1,3-Dichloropropene	75	8.120	7.793	(0.908)	2037	0.75451	~~0.018863~~
61 Chlorodibromomethane	129	8.357	8.353	(0.935)	671	0.84470	0.021117
63 Chlorobenzene (spcc)	112	8.965	8.961	(1.003)	25522	0.46364	0.011591
65 Ethylbenzene (ccc)	106	9.233	9.101	(1.033)	1699	0.04792	0.~~0011981~~
67 o-Xylene	106	9.233	9.612	(1.033)	1699	0.04488	0.~~0011220~~
69 Bromoform (spcc)	173	9.793	9.782	(1.095)	488	0.97766	0.024441
74 1,2,3-Trichloropropane	110	10.486	10.324	(0.912)	583	0.29124	0.~~0072810~~
83 1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	2206	0.05418	0.~~0013545~~
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2206	0.05825	0.0014562

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2haa1aa.d
Lab Smp Id: H2HAA1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3013-R2-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	761687	-20.04
2 Chlorobenzene-d5	164101	82050	328202	173301	5.61
3 1,4 Dichlorobenze	204390	102195	408780	232613	13.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 07-Apr-2006 16:15

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HAA1AA
Client Smp ID: G-3013-R2-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

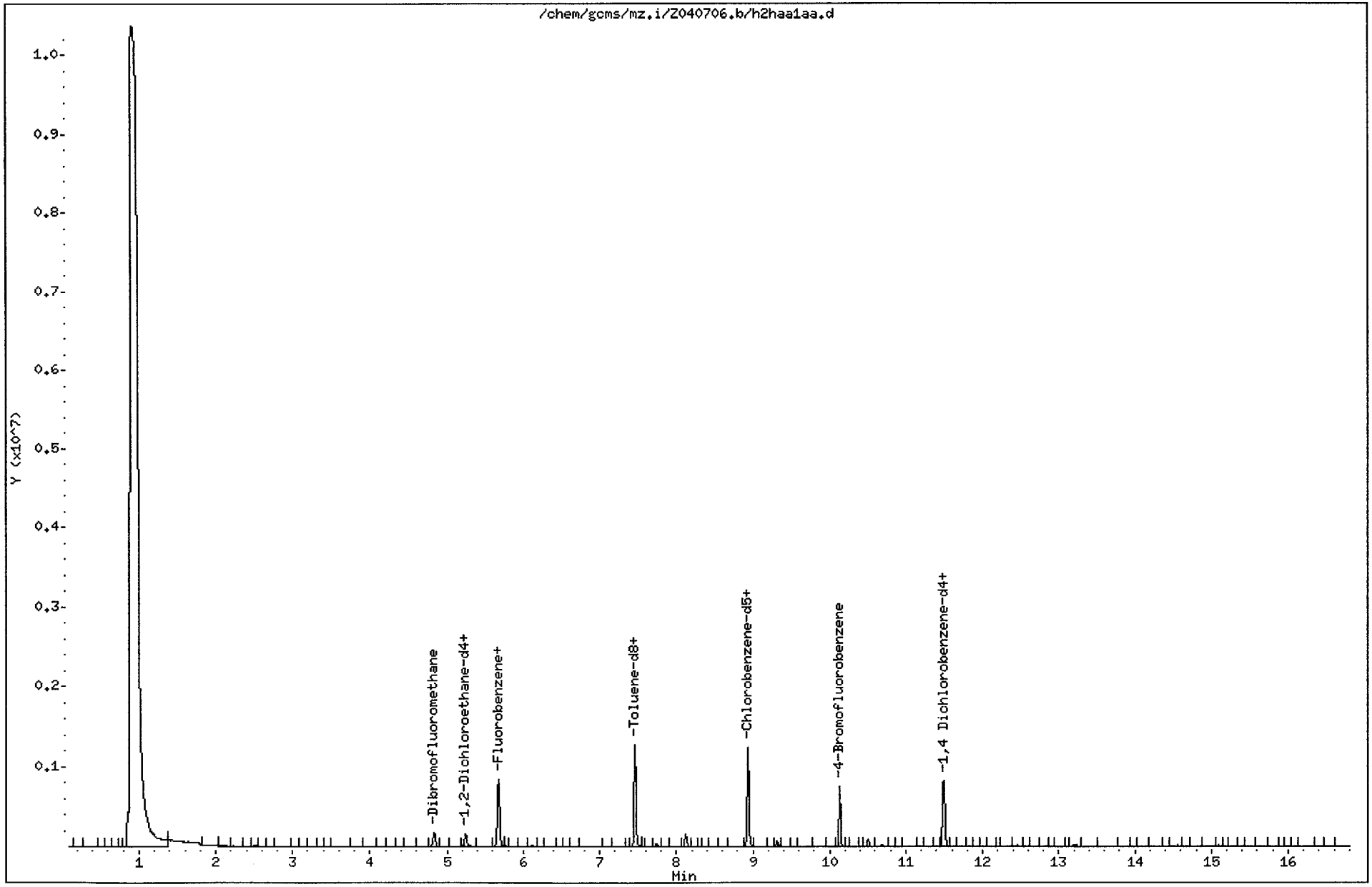
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26935	107.74	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25420	101.68	50-150
$ 6 Toluene-d8	0.25000	0.23508	94.03	50-150
$ 7 4-Bromofluorobenze	0.25000	0.22015	88.06	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Date : 07-APR-2006 15:57
Client ID: G-3013-R2-VOST PAIR
Sample Info: H2HAA1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



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Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

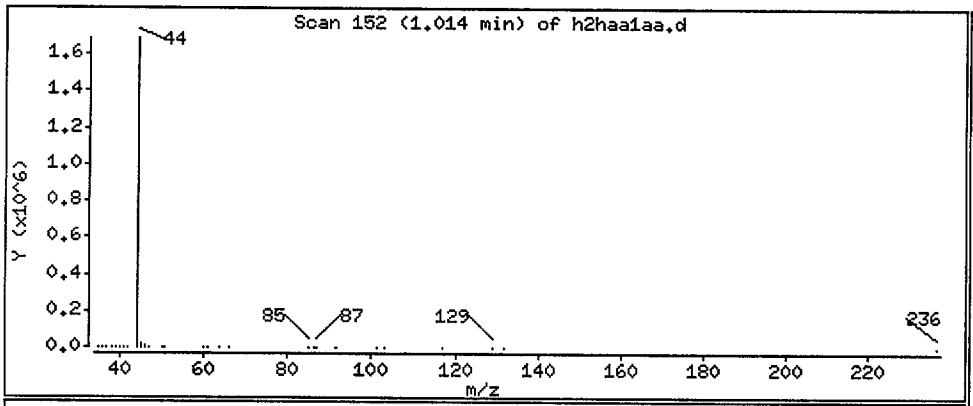
Operator: 22980

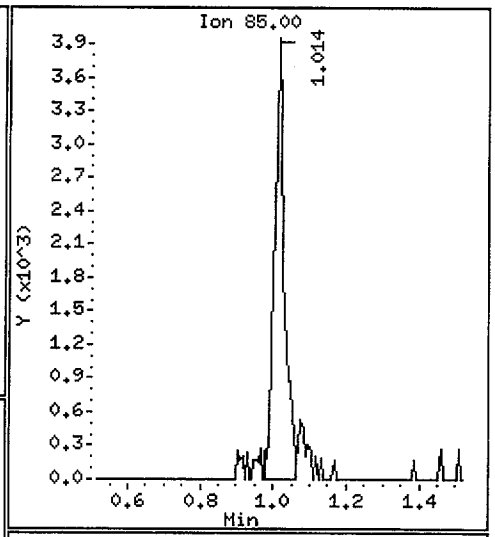
Column phase: J+W 624

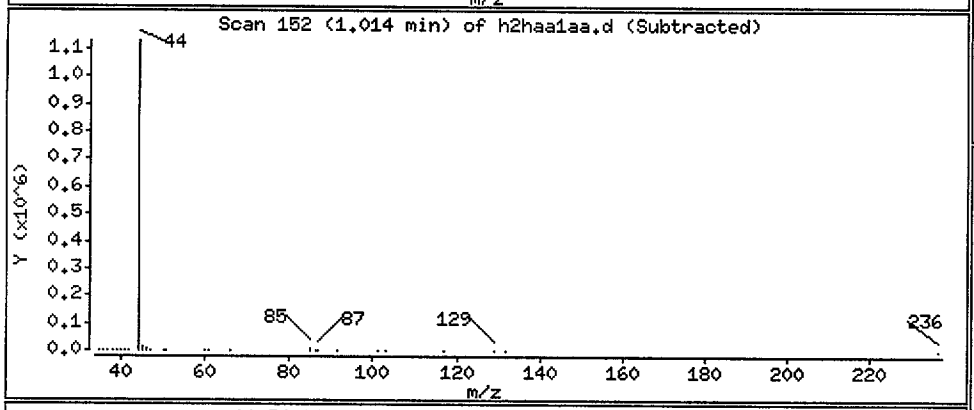
Column diameter: 0.18

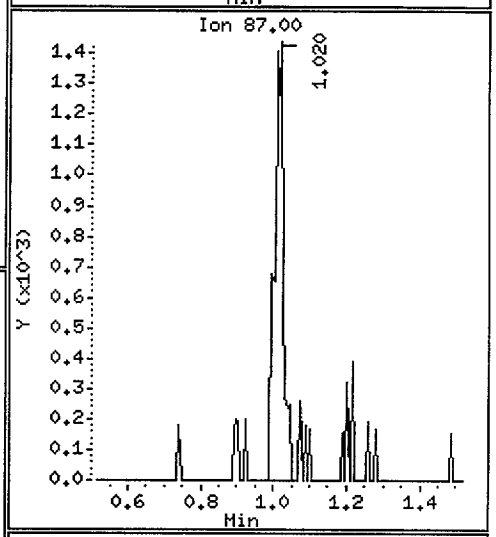
10 Dichlorodifluoromethane

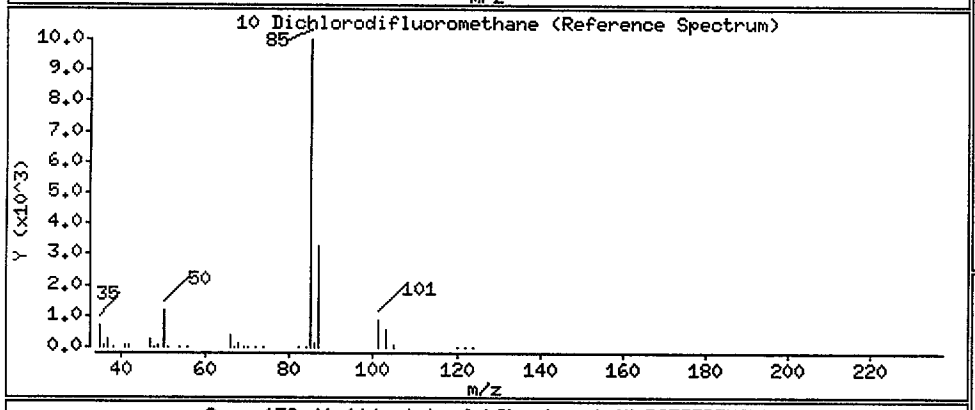
Concentration: 0.010122 ug

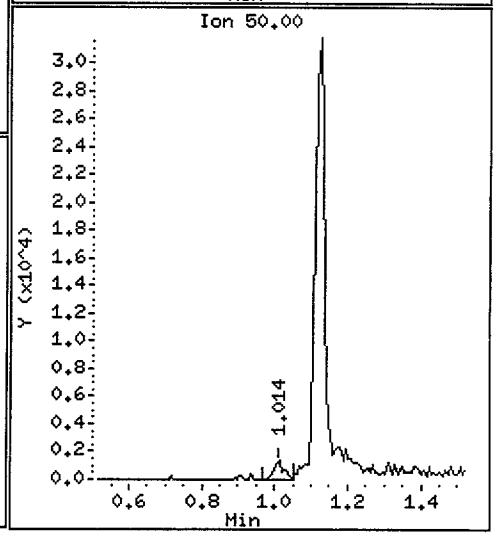


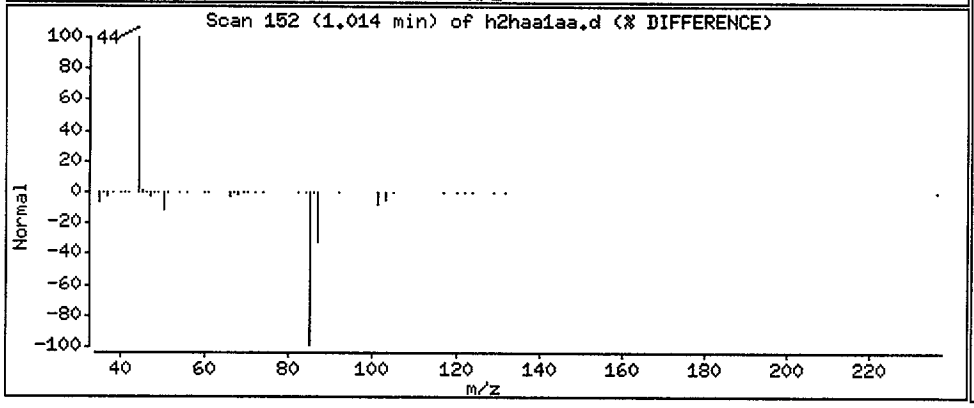












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

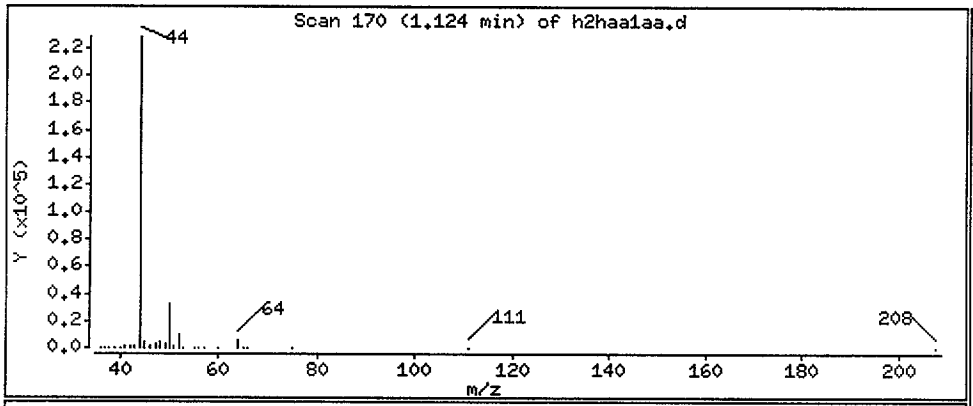
Operator: 22980

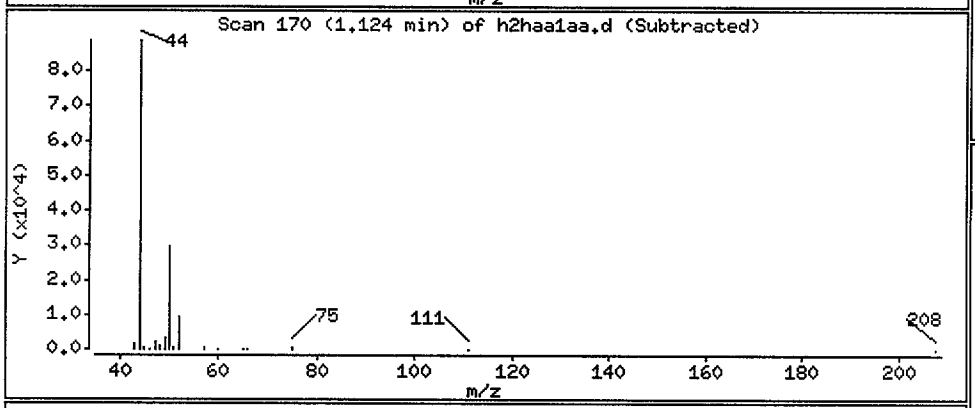
Column phase: J+W 624

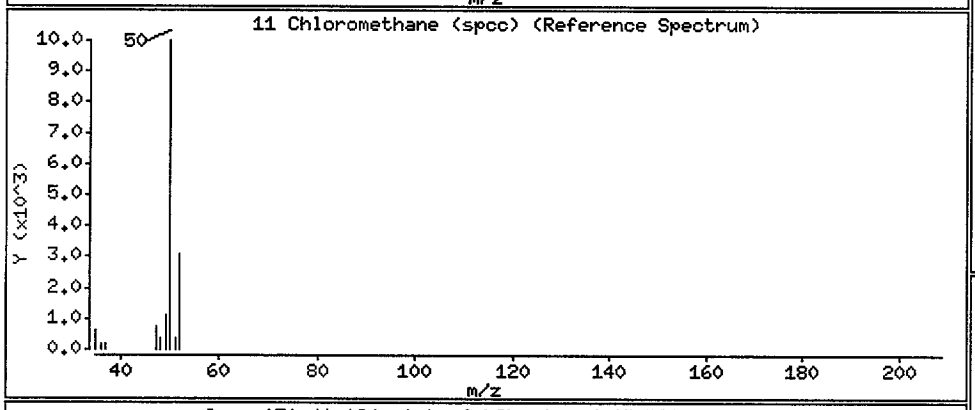
Column diameter: 0.18

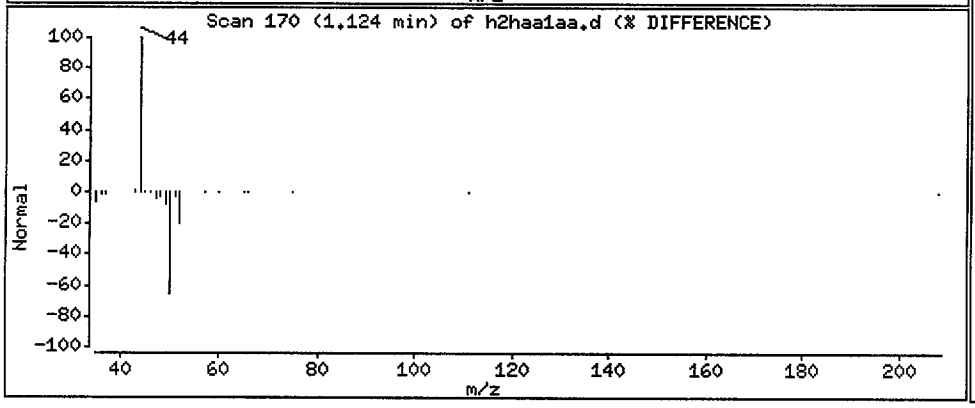
11 Chloromethane (spcc)

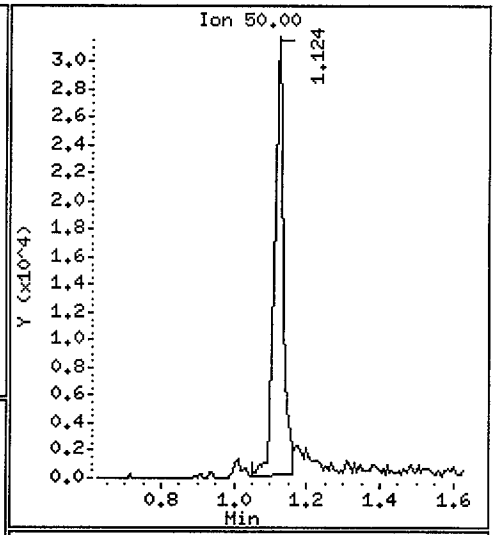
Concentration: 0.017734 ug

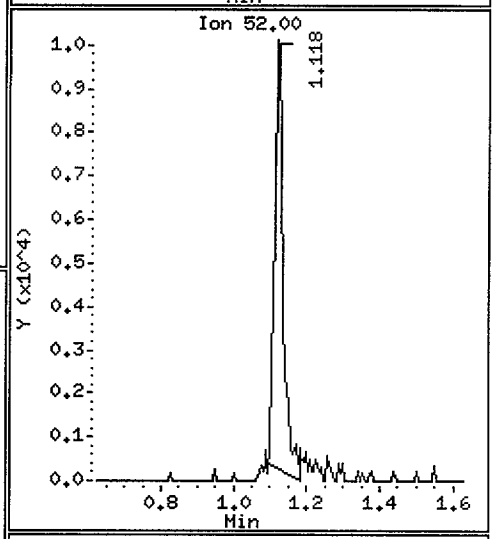


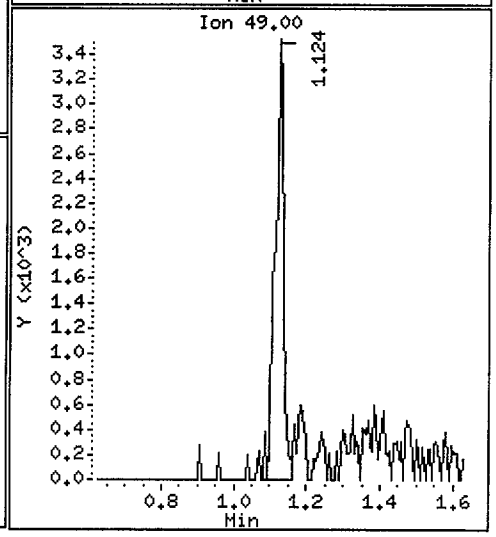












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

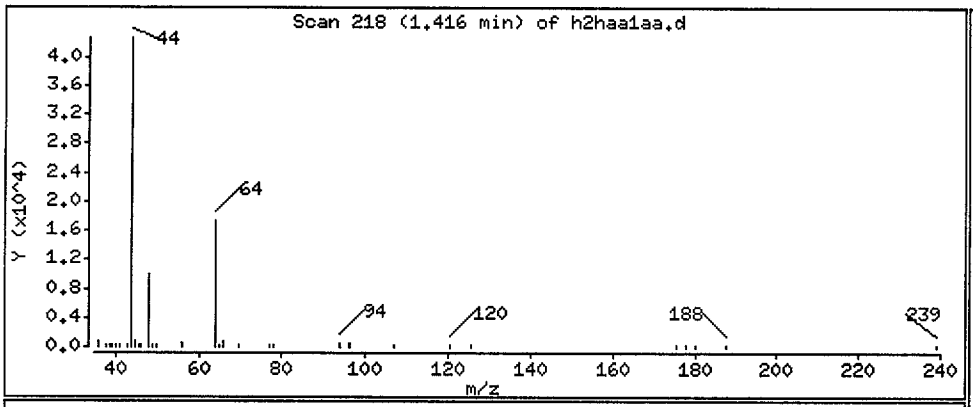
Operator: 22980

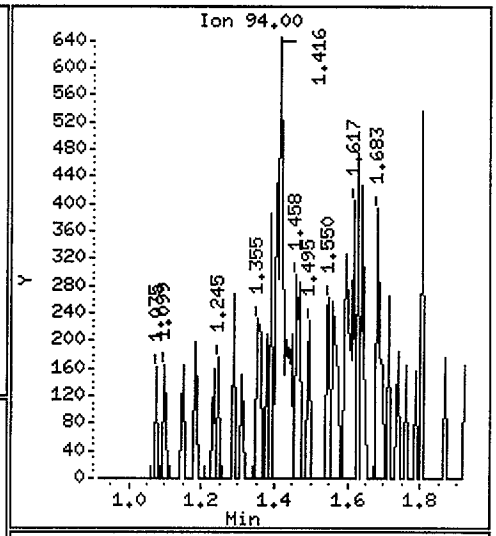
Column phase: J+W 624

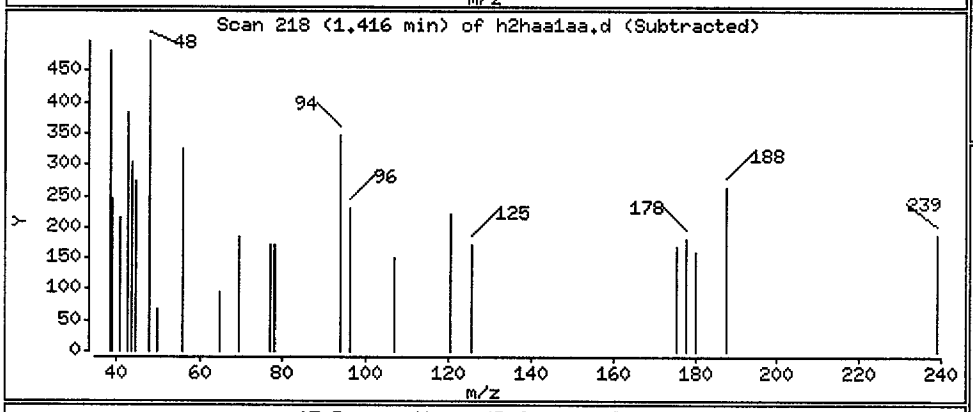
Column diameter: 0.18

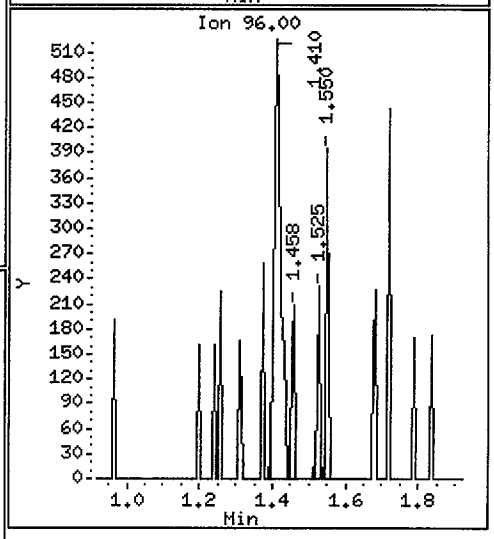
15 Bromomethane

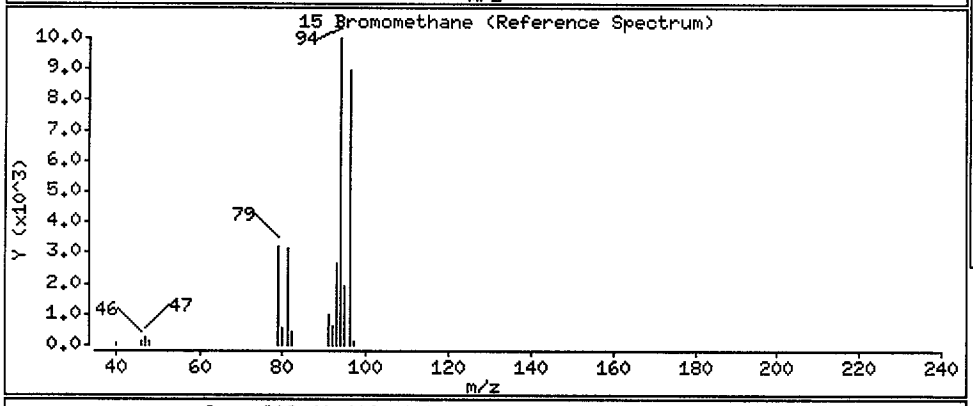
Concentration: 0.024325 ug

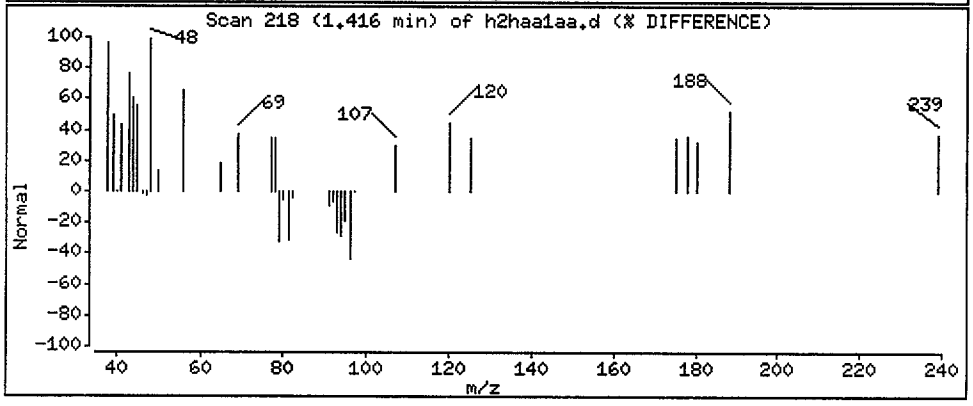












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

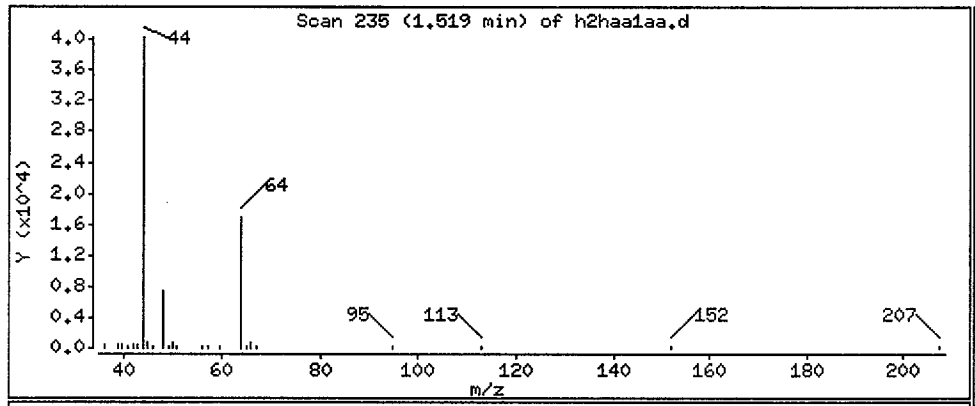
Operator: 22980

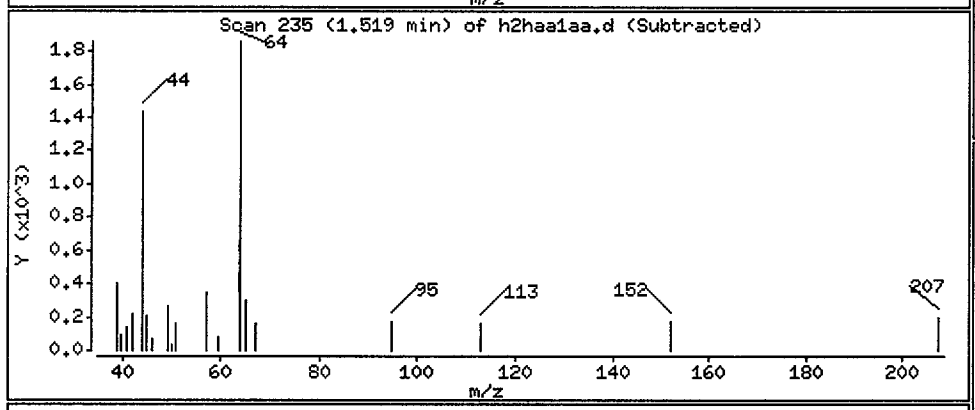
Column phase: J+W 624

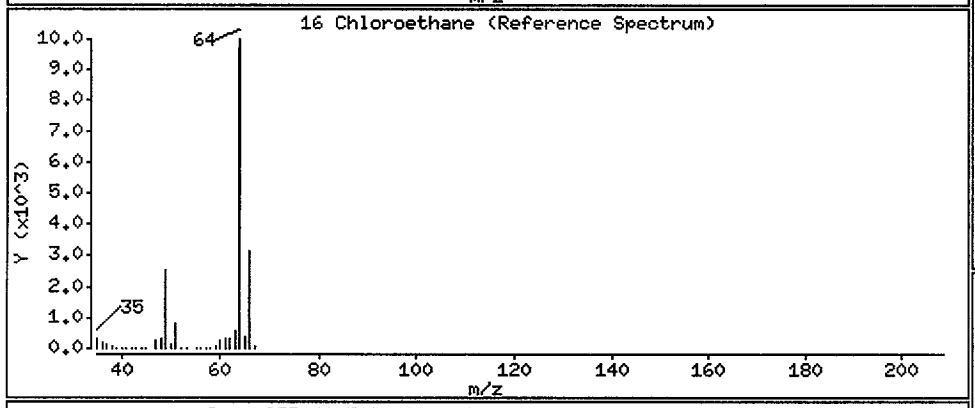
Column diameter: 0.18

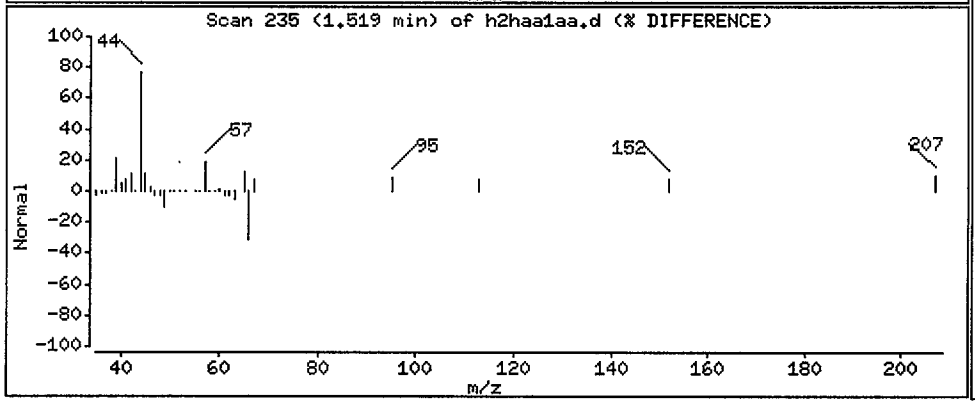
16 Chloroethane

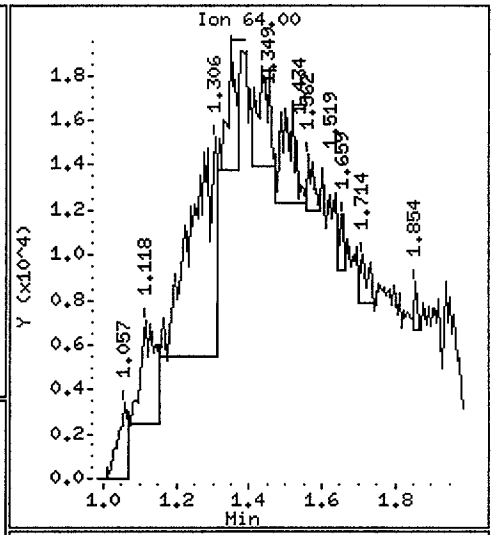
Concentration: 0.018875 ug

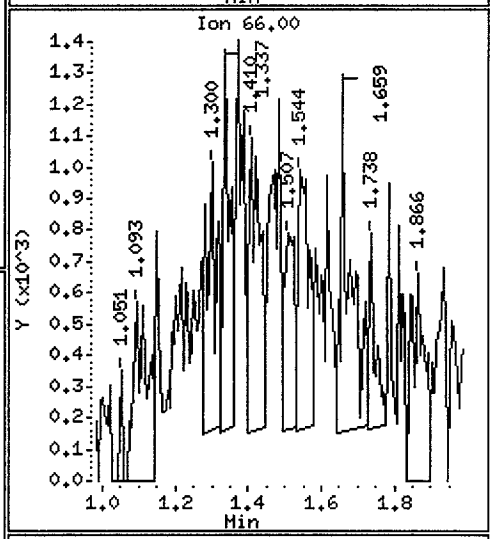


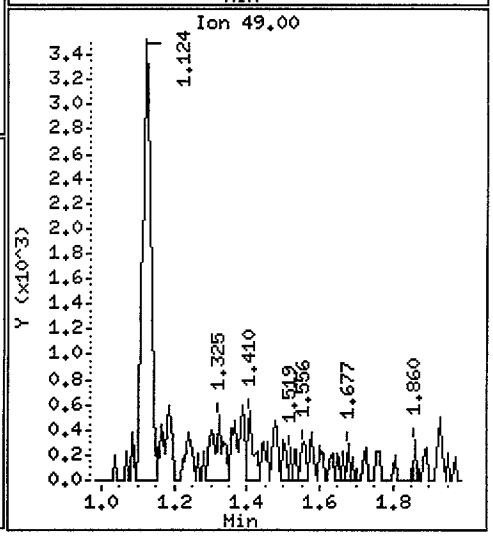












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

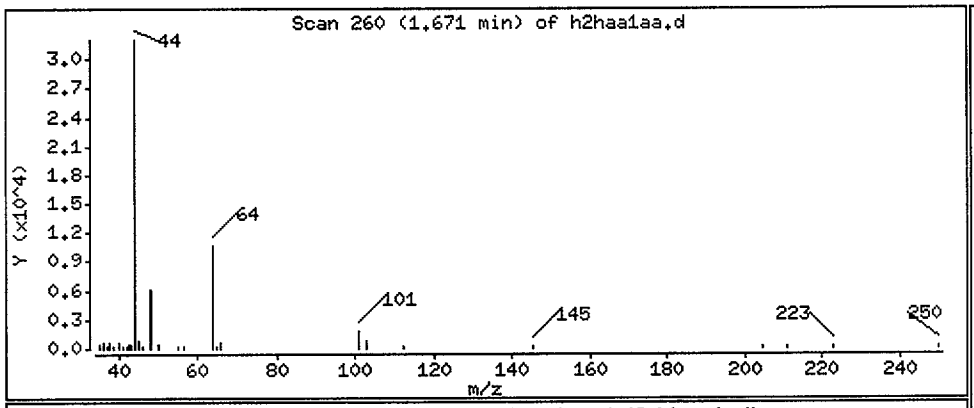
Operator: 22980

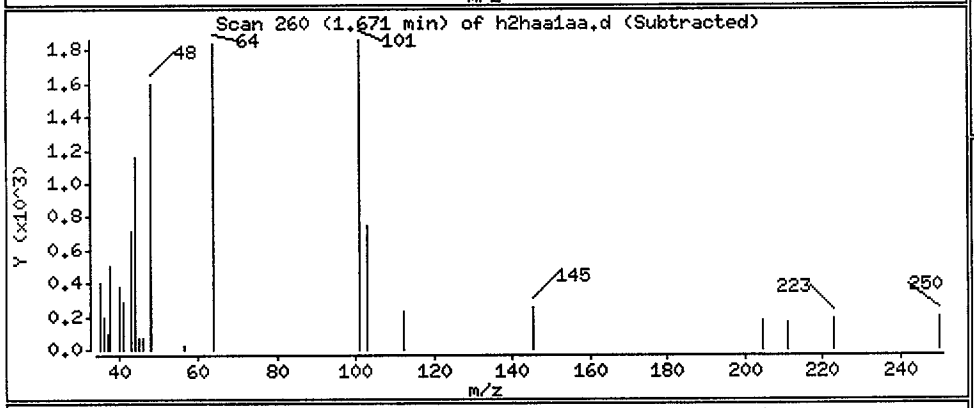
Column phase: J+W 624

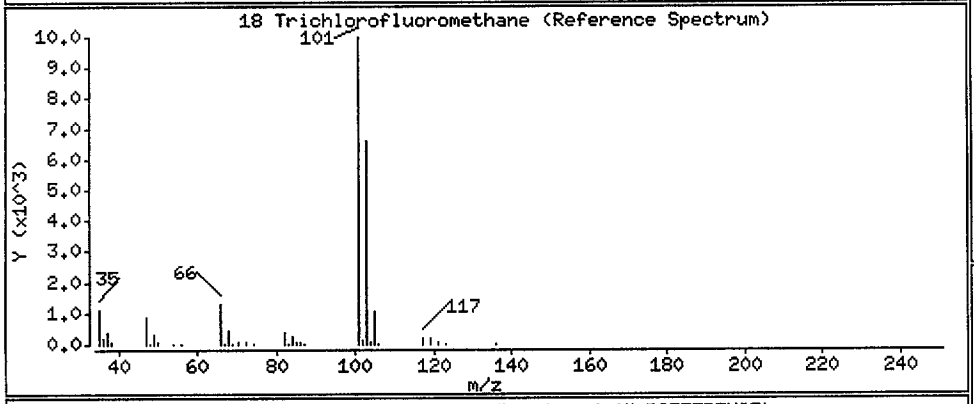
Column diameter: 0.18

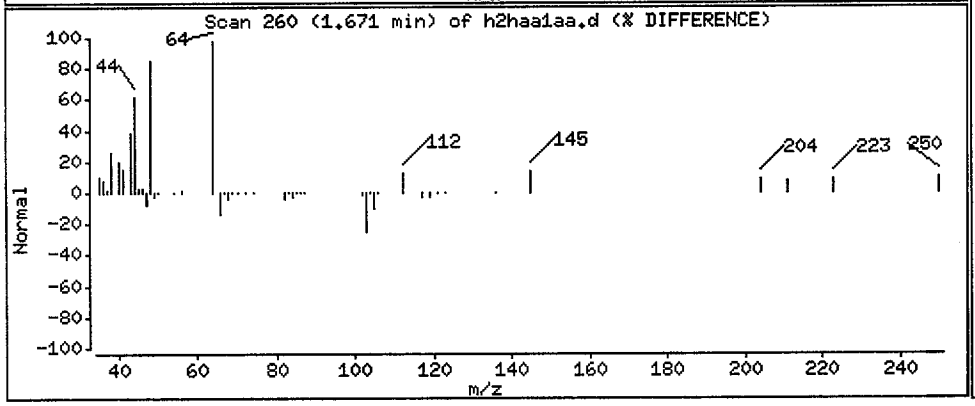
18 Trichlorofluoromethane

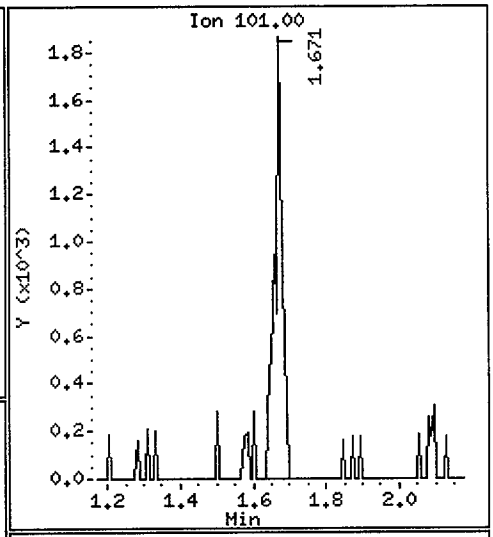
Concentration: 0.0029823 ug

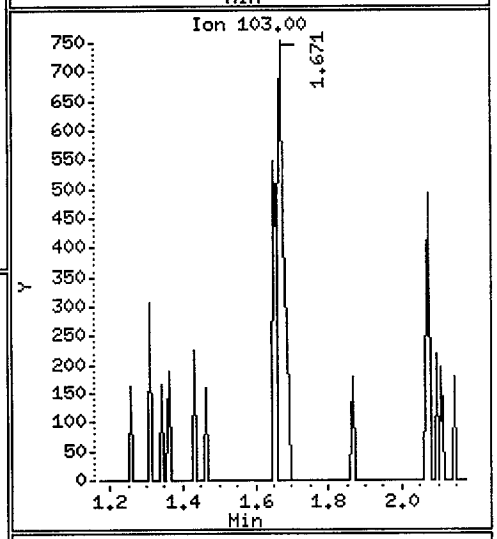


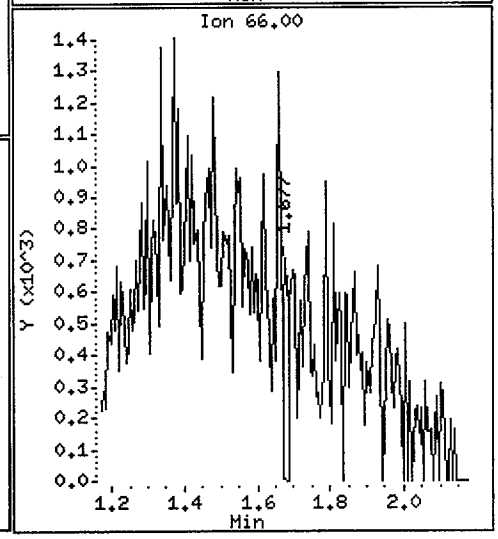












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

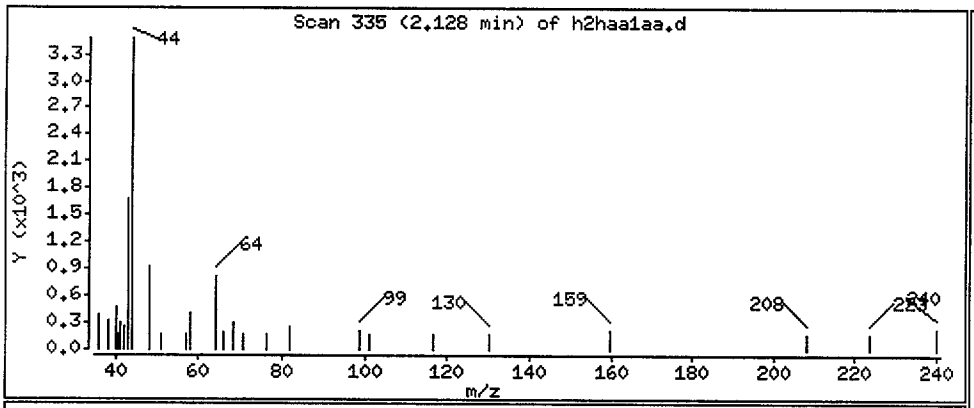
Operator: 22980

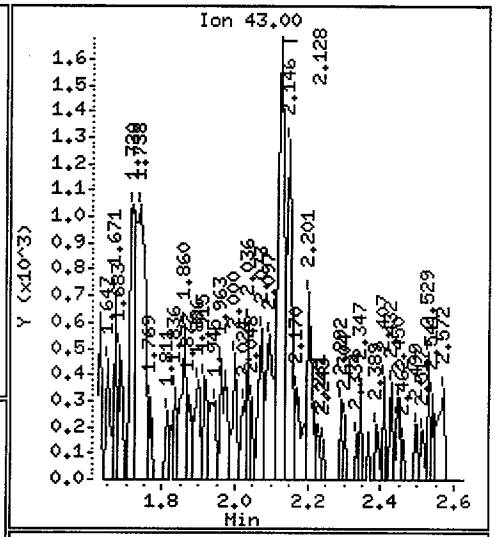
Column phase: J+W 624

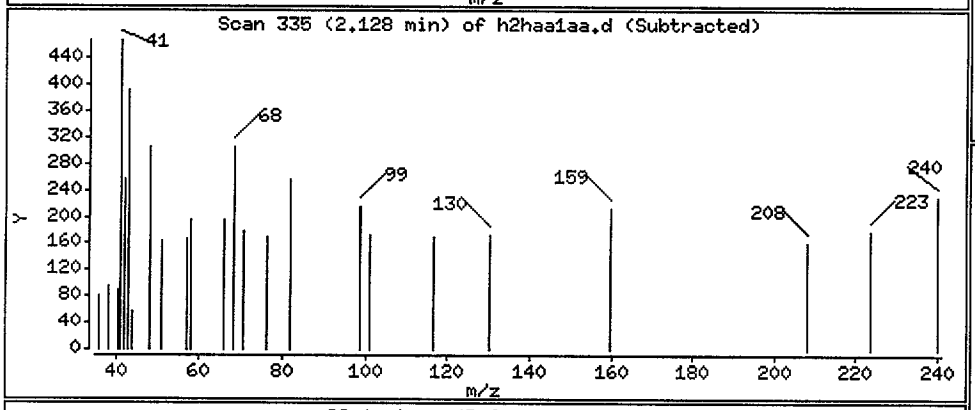
Column diameter: 0.18

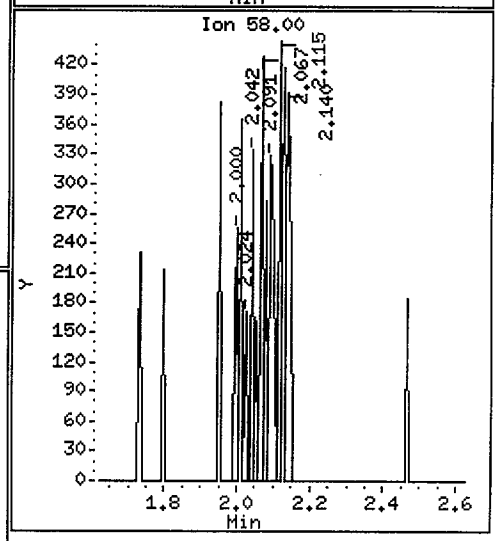
22 Acetone

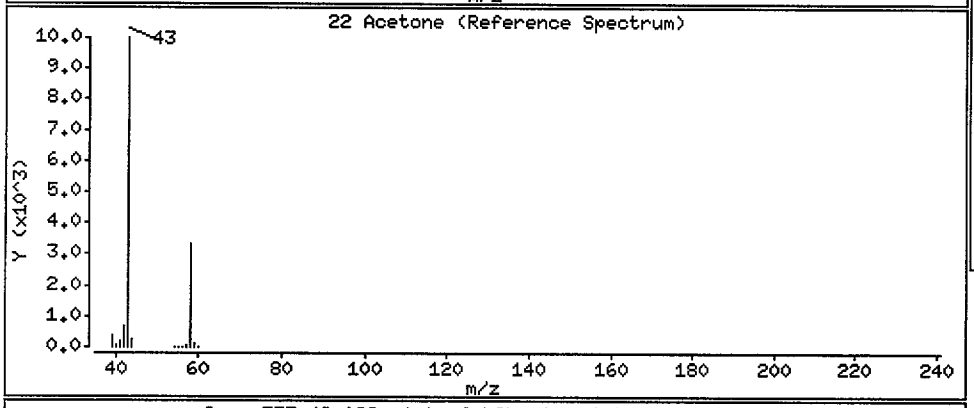
Concentration: 0.093911 ug

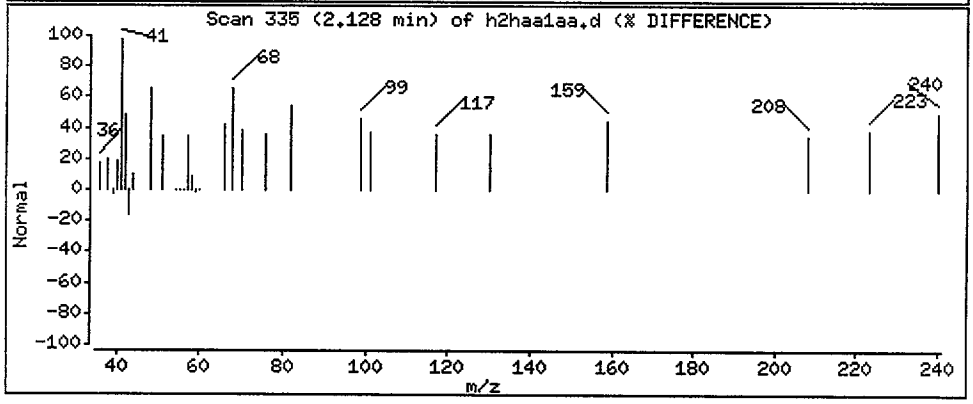












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

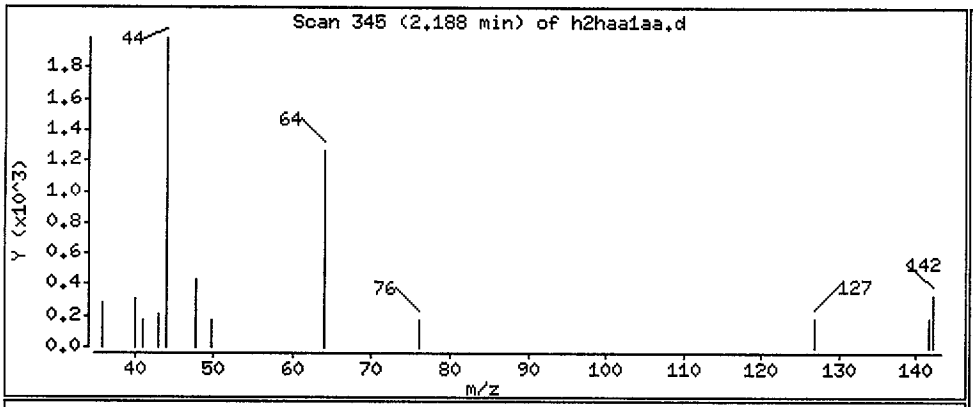
Operator: 22980

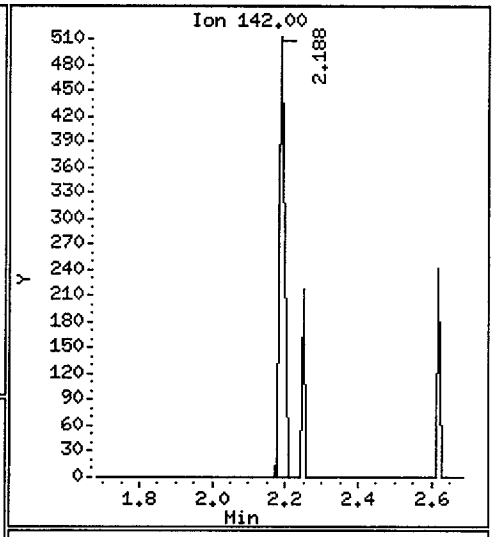
Column phase: J+W 624

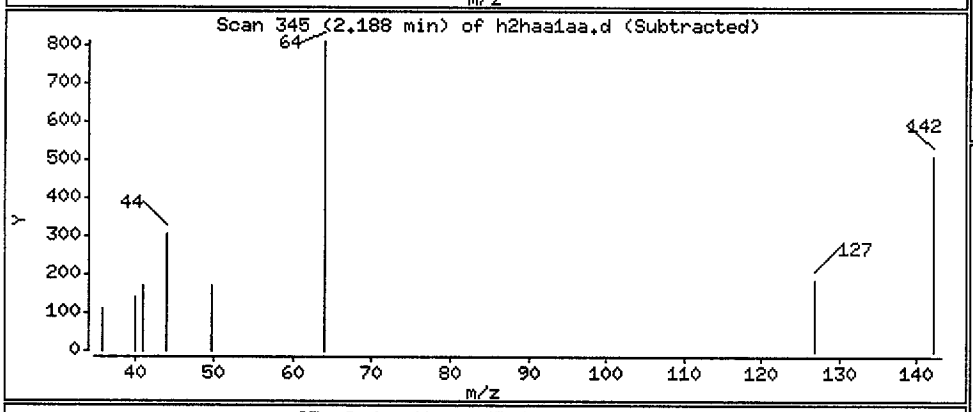
Column diameter: 0.18

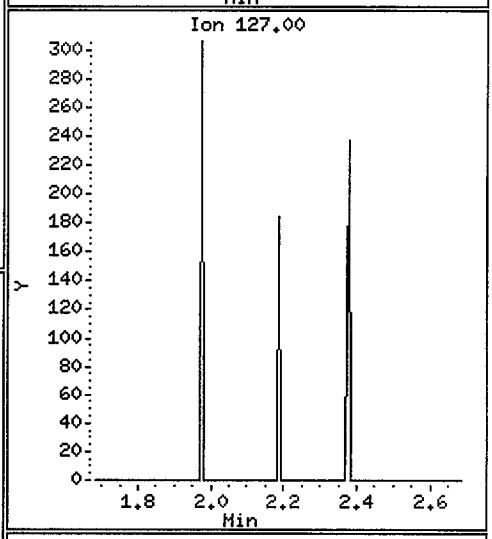
23 *Iodomethane

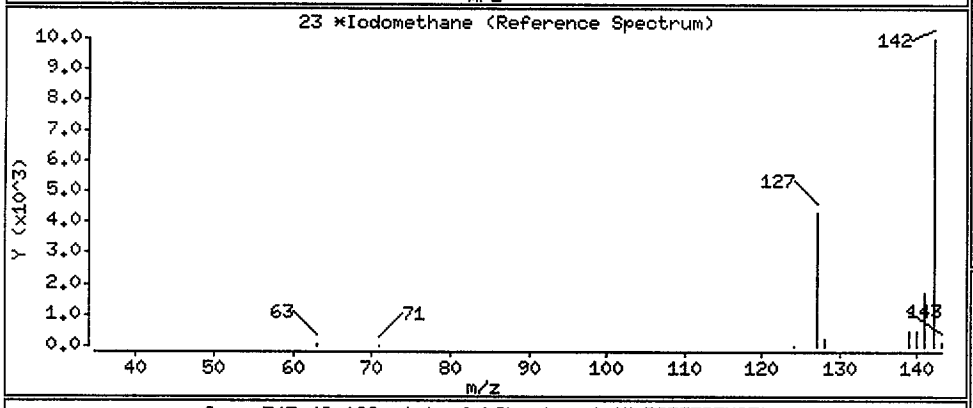
Concentration: 0.013704 ug

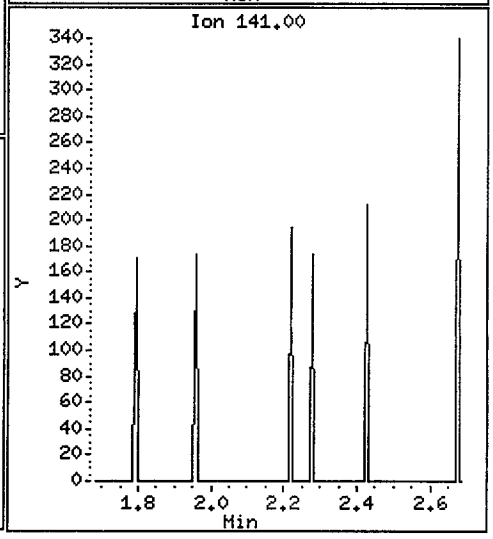


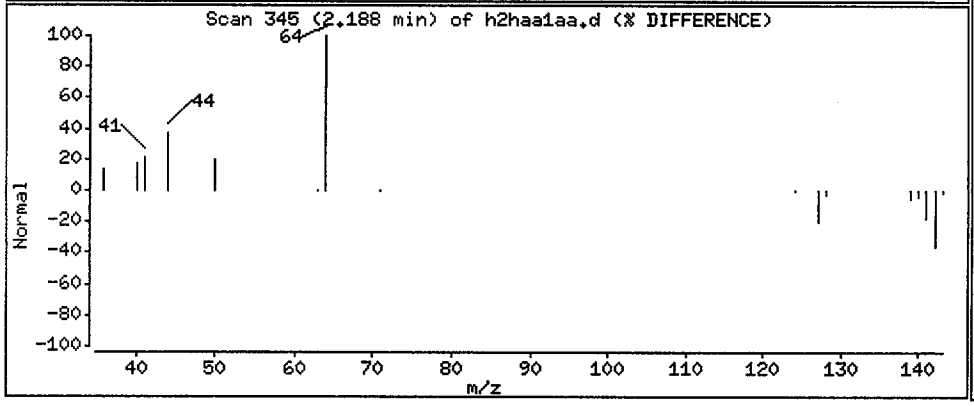












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

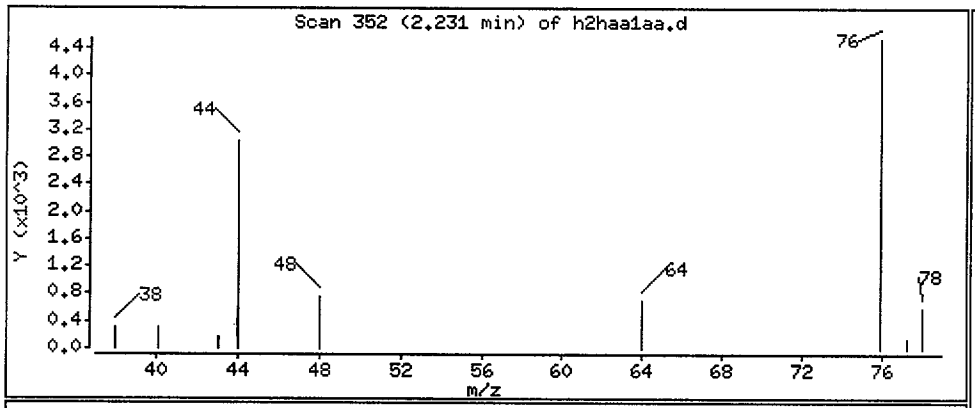
Operator: 22980

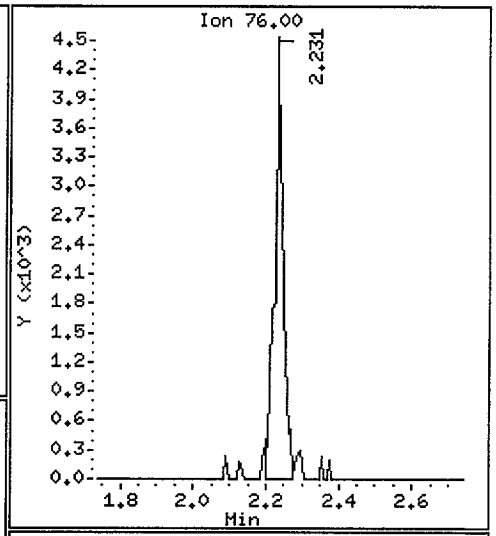
Column phase: J+W 624

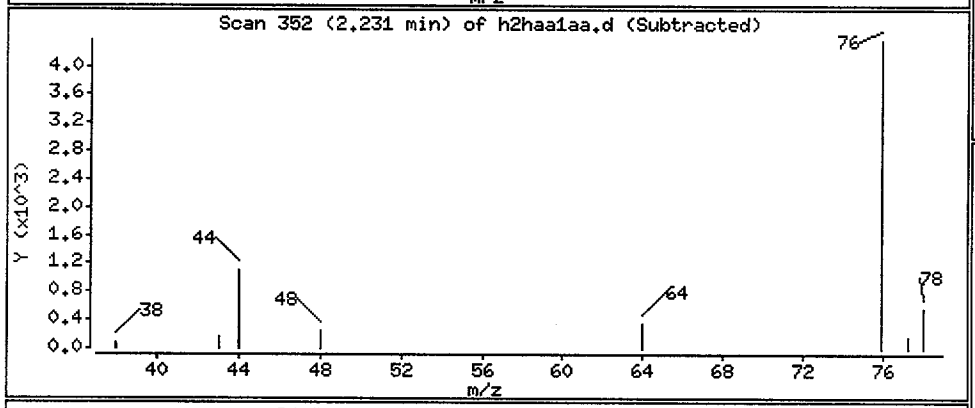
Column diameter: 0.18

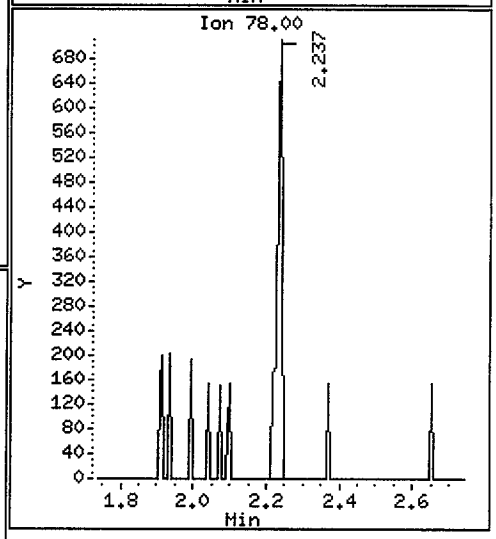
24 Carbon Disulfide

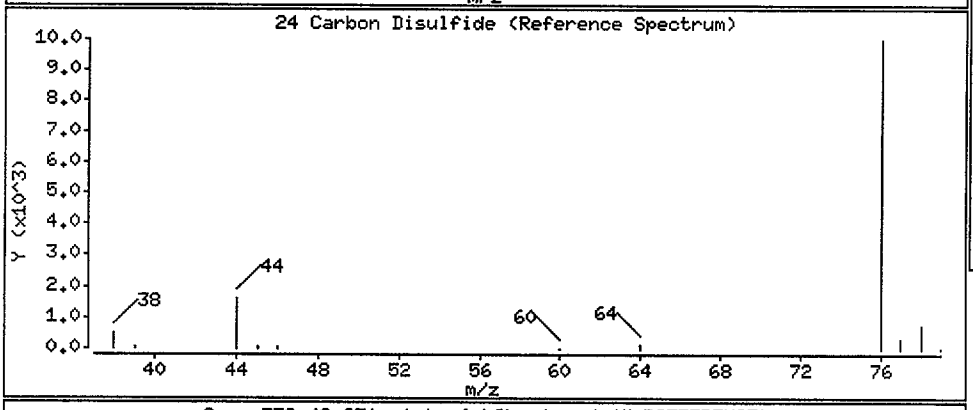
Concentration: 0.0030955 ug

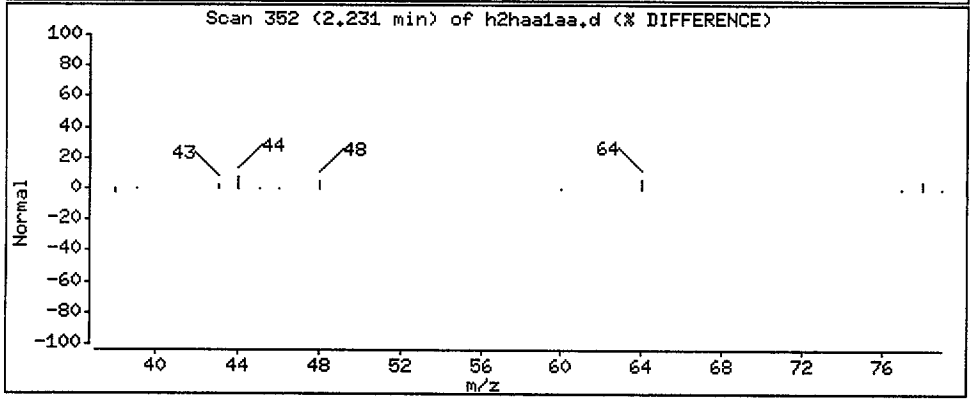












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

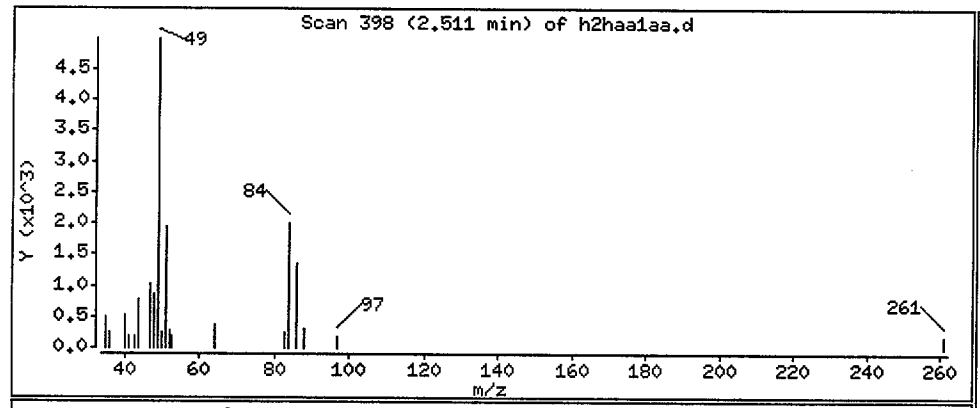
Operator: 22980

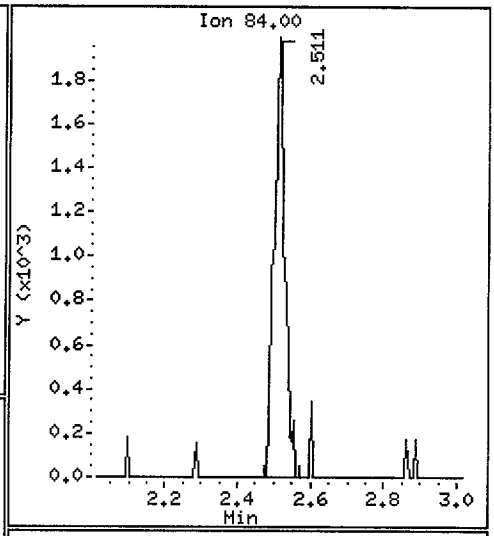
Column phase: J+W 624

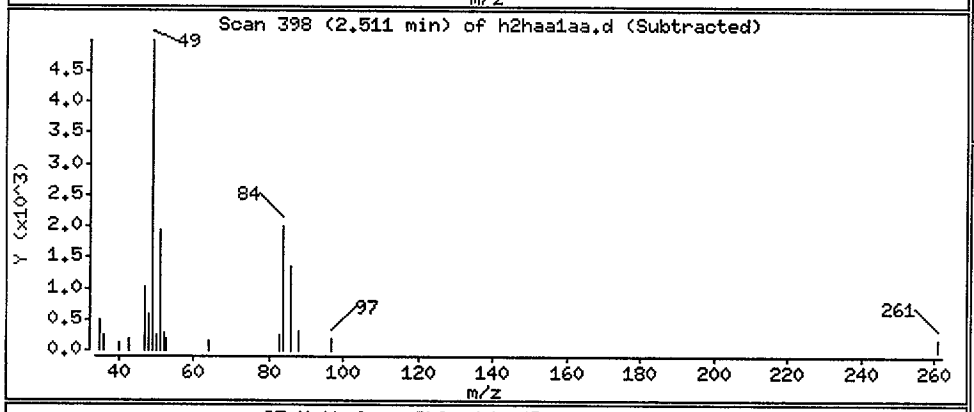
Column diameter: 0.18

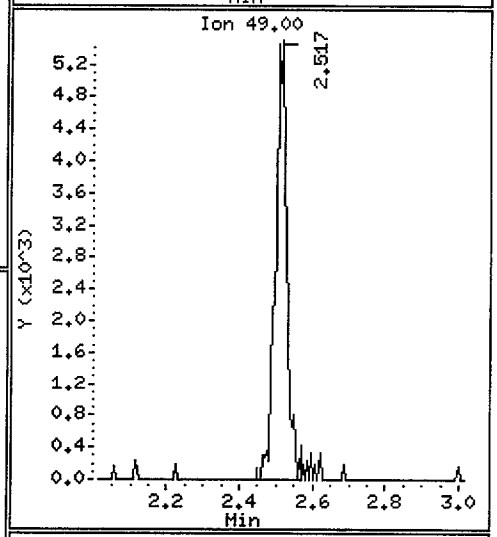
27 Methylene Chloride

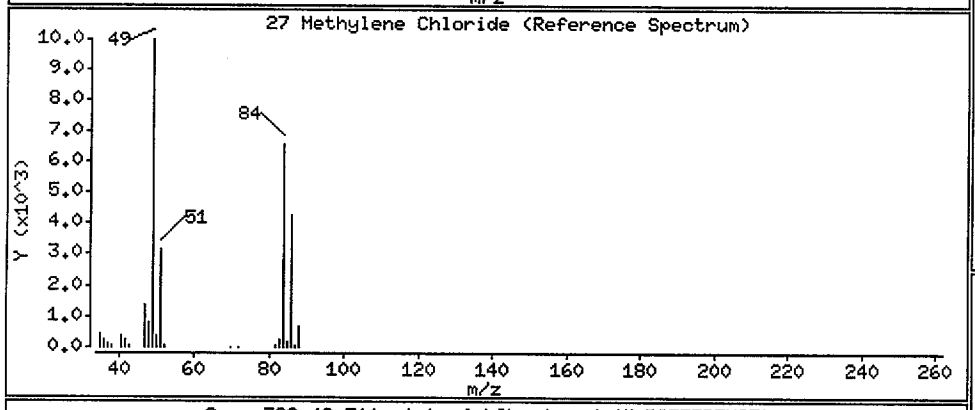
Concentration: 0.0079225 ug

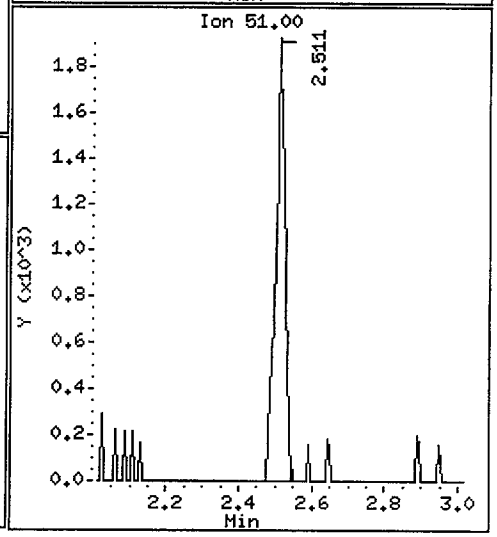


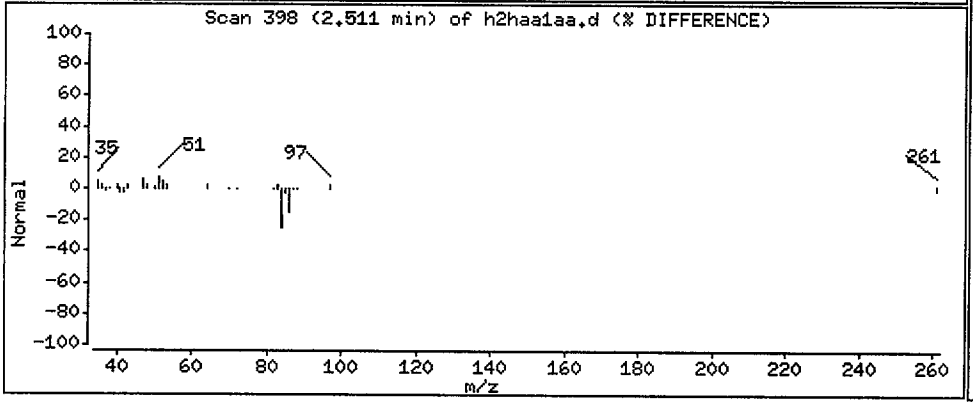












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

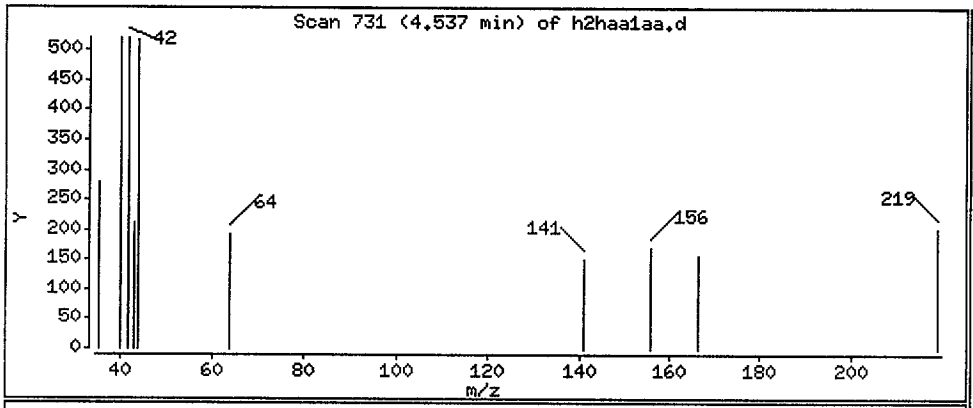
Operator: 22980

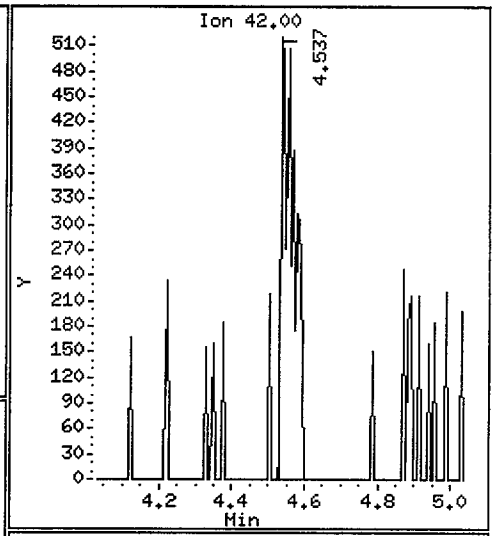
Column phase: J+W 624

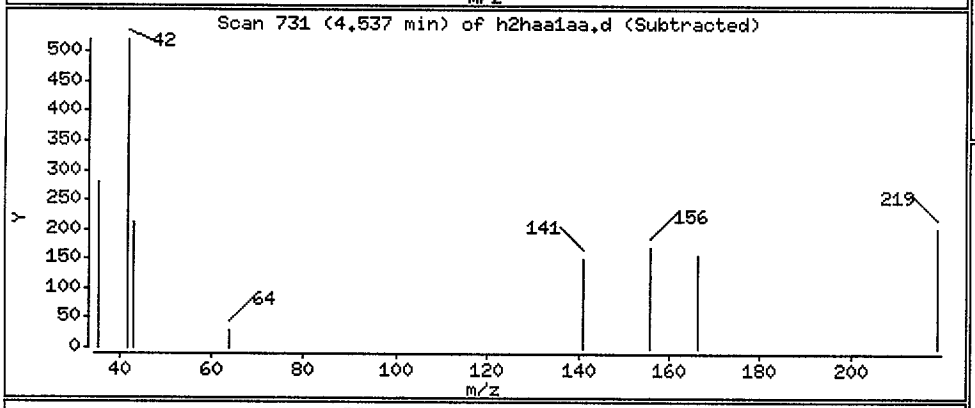
Column diameter: 0.18

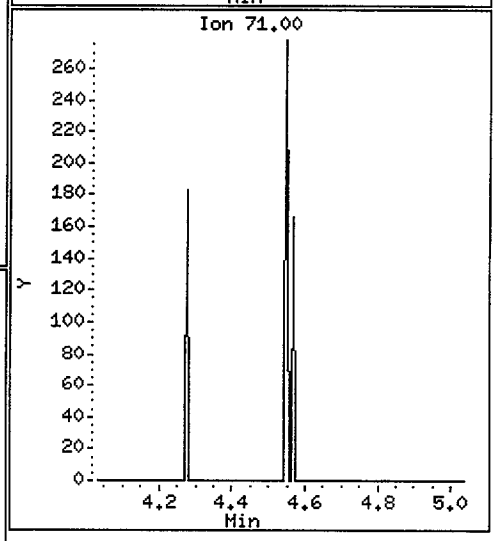
39 *THF

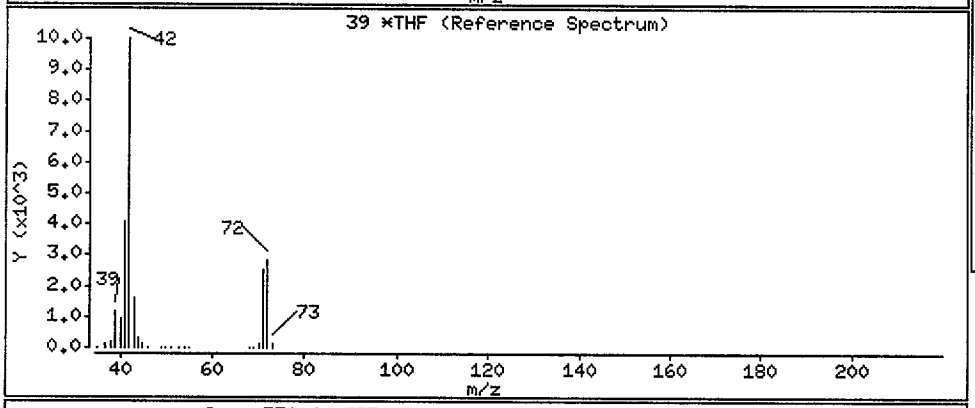
Concentration: 0.017581 ug

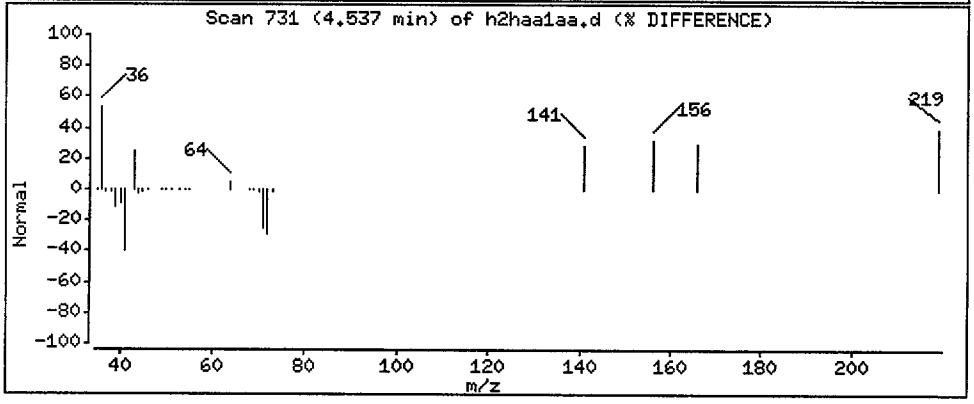












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

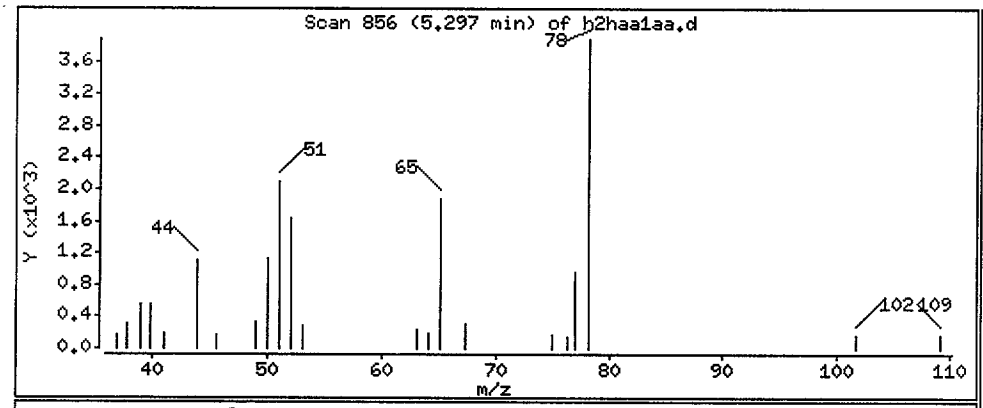
Operator: 22980

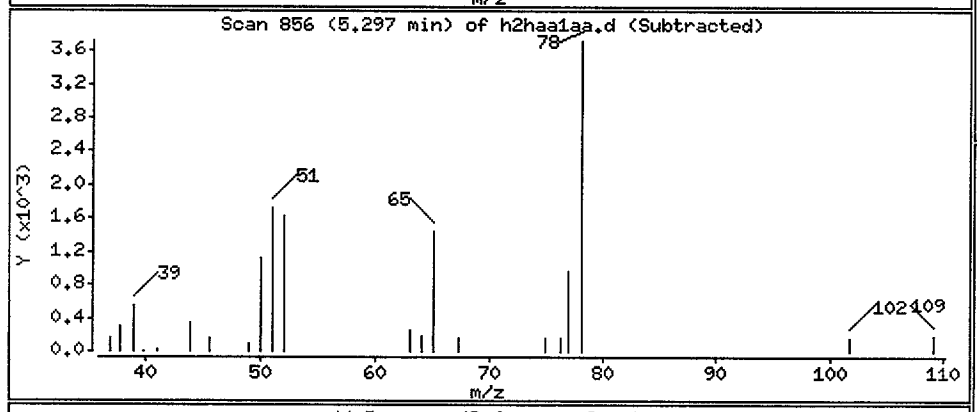
Column phase: J+W 624

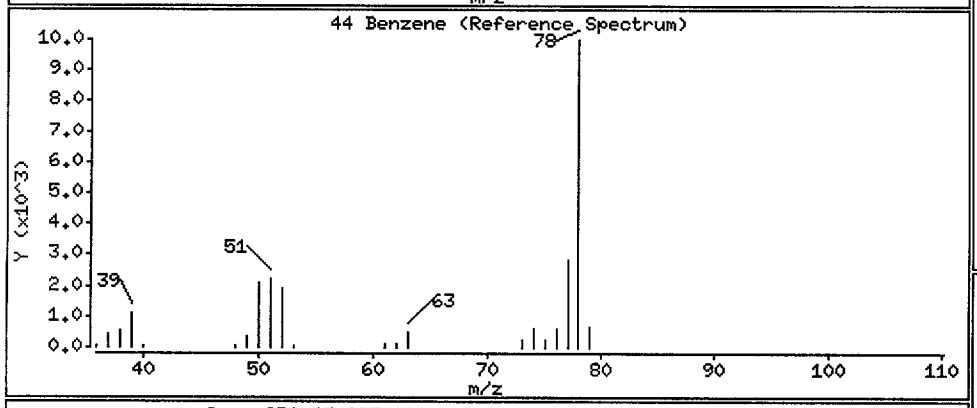
Column diameter: 0.18

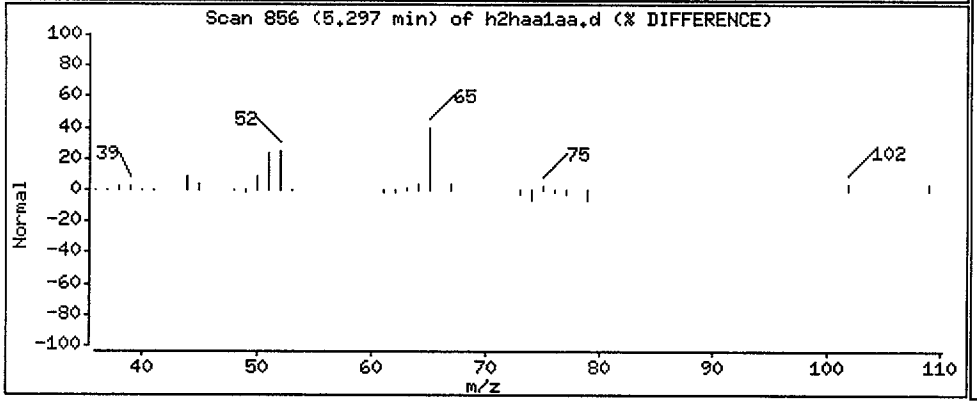
44 Benzene

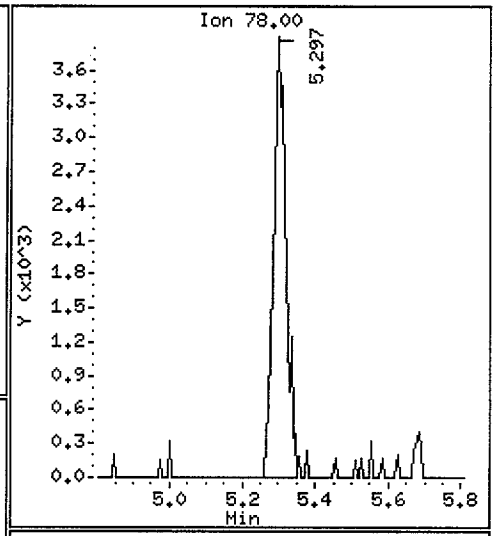
Concentration: 0.0030146 ug

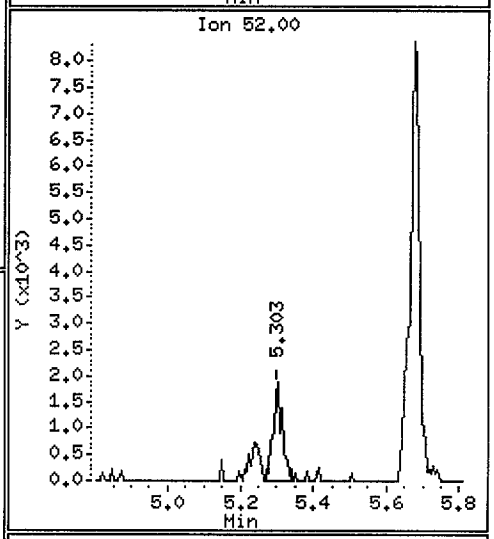


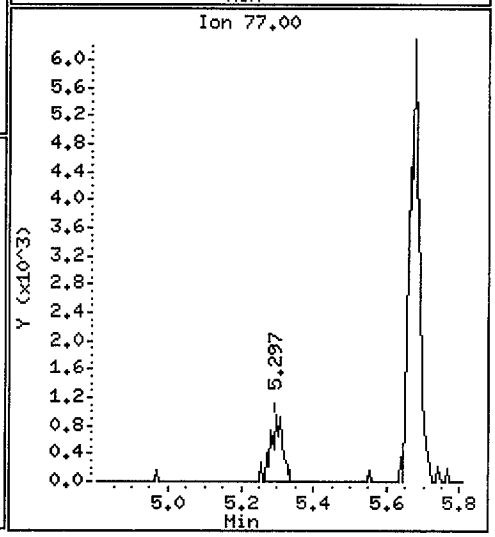












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

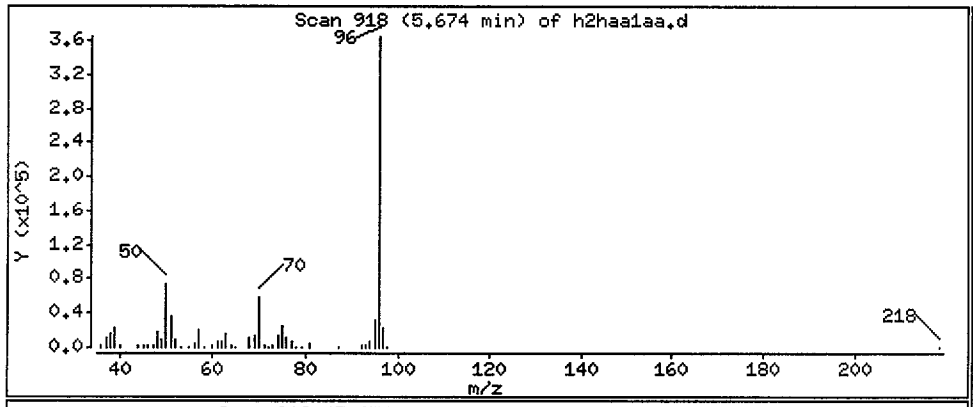
Operator: 22980

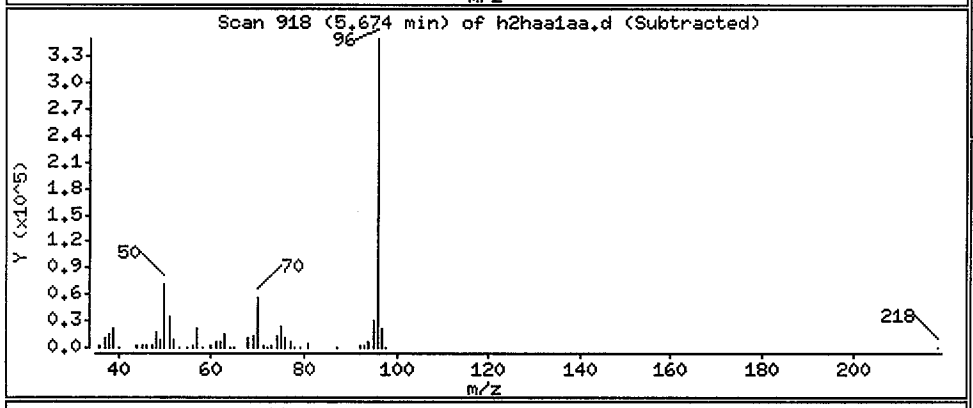
Column phase: J+W 624

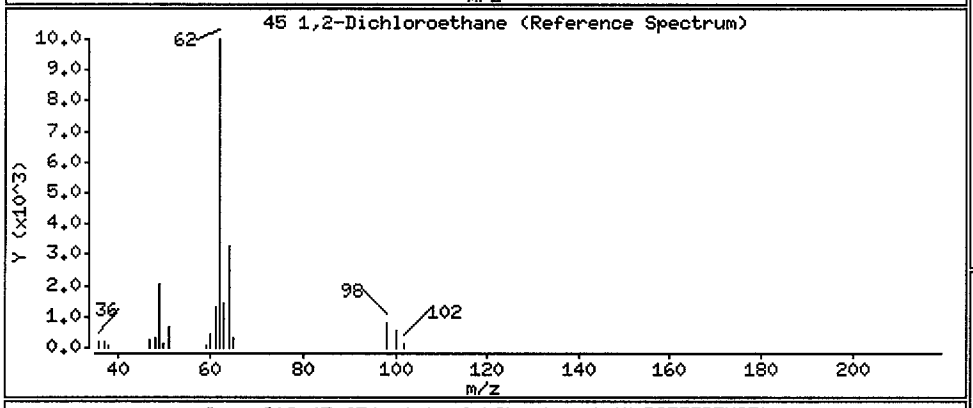
Column diameter: 0.18

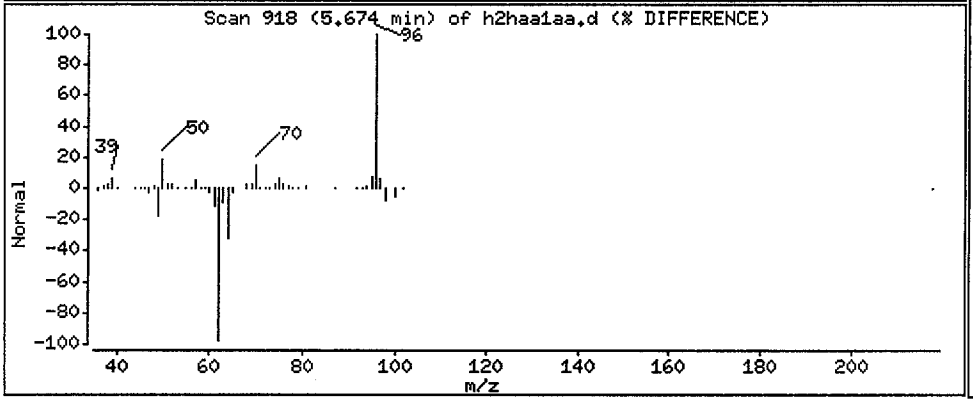
45 1,2-Dichloroethane

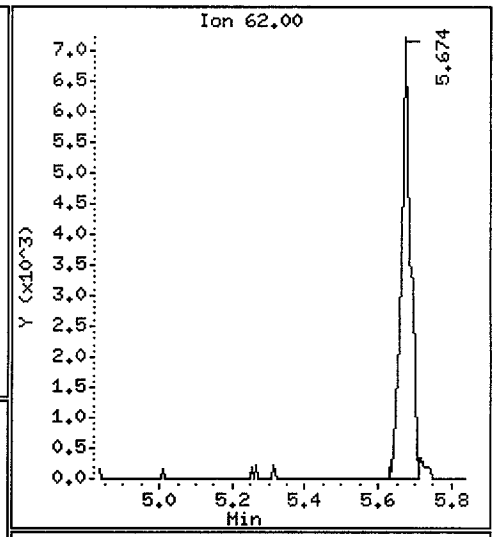
Concentration: 0.019992 ug

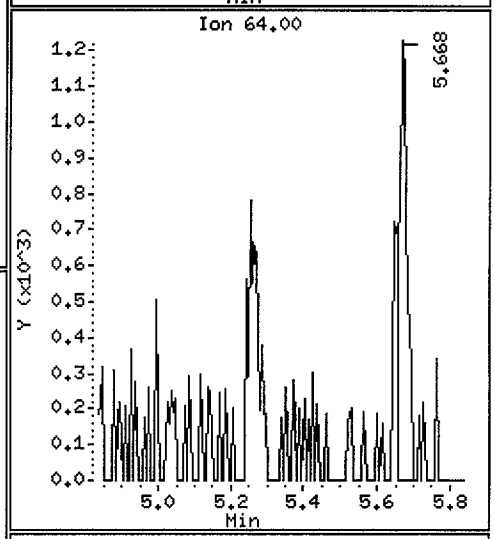


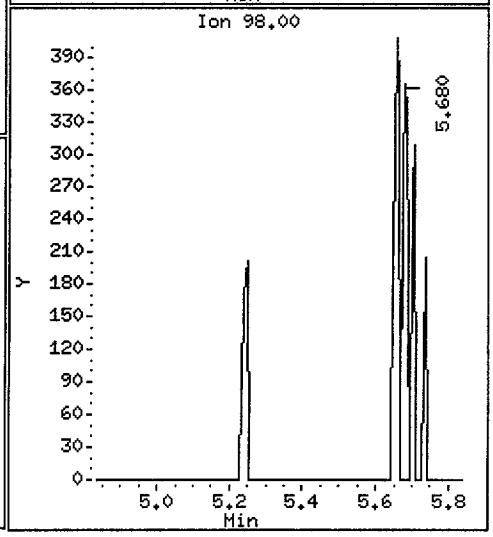












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

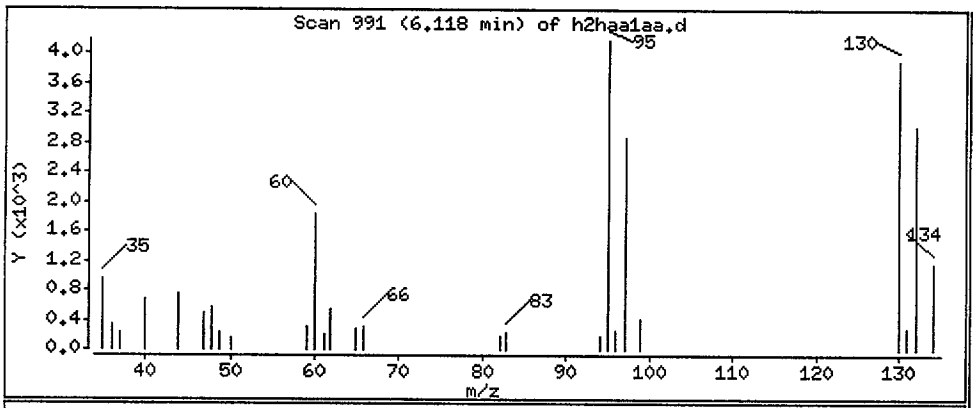
Operator: 22980

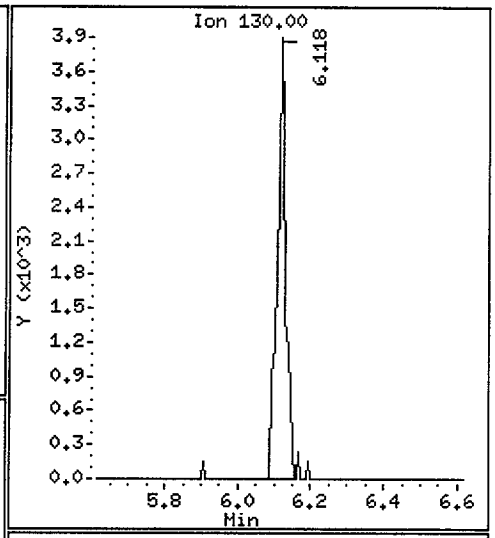
Column phase: J+W 624

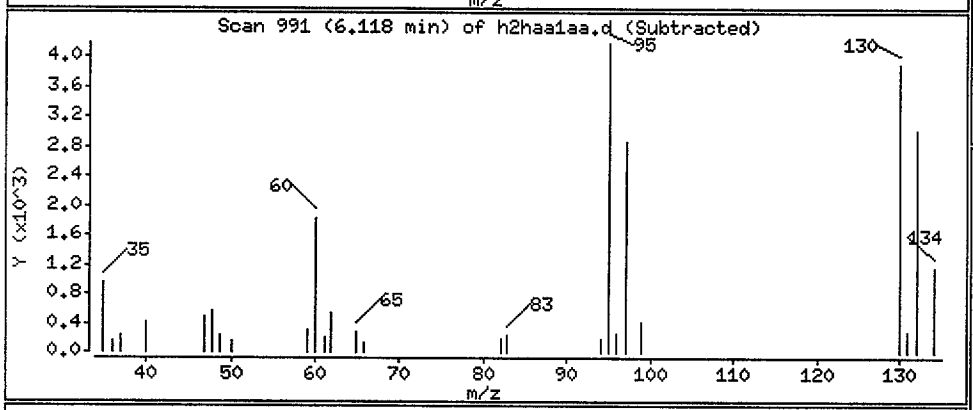
Column diameter: 0.18

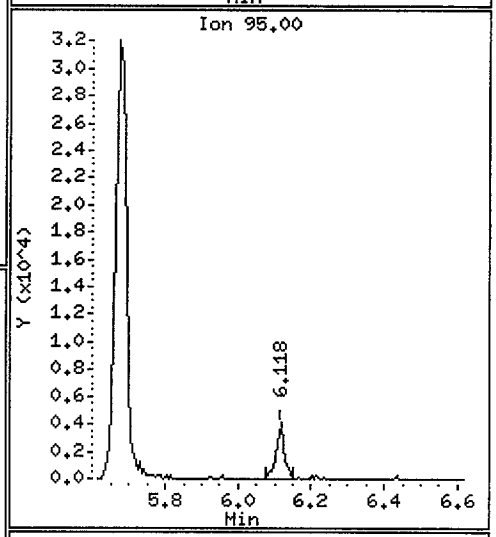
46 Trichloroethene

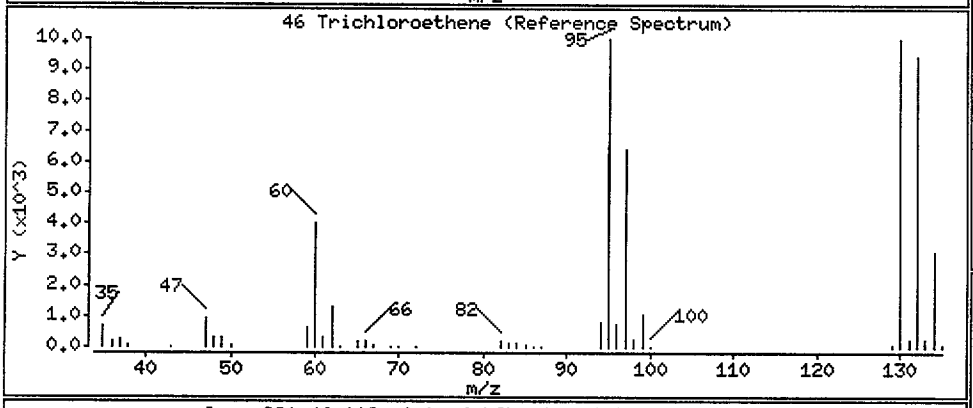
Concentration: 0.0073723 ug

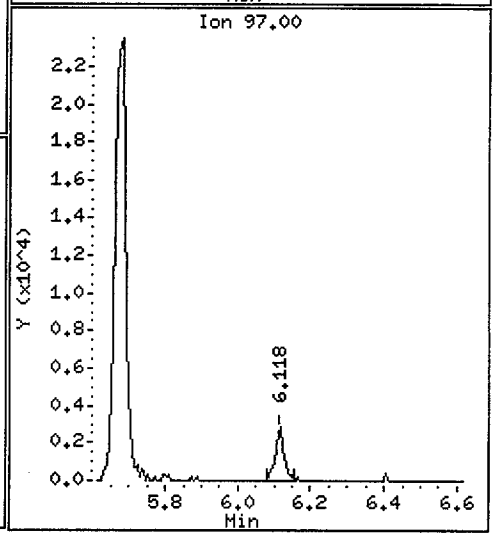


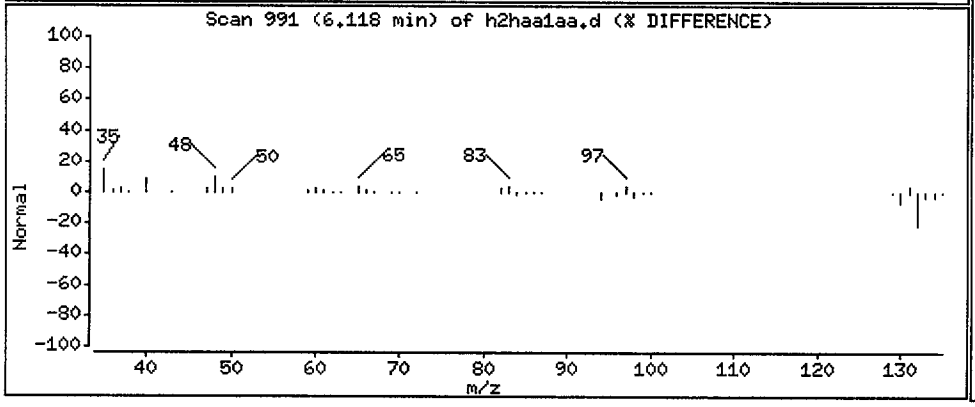












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

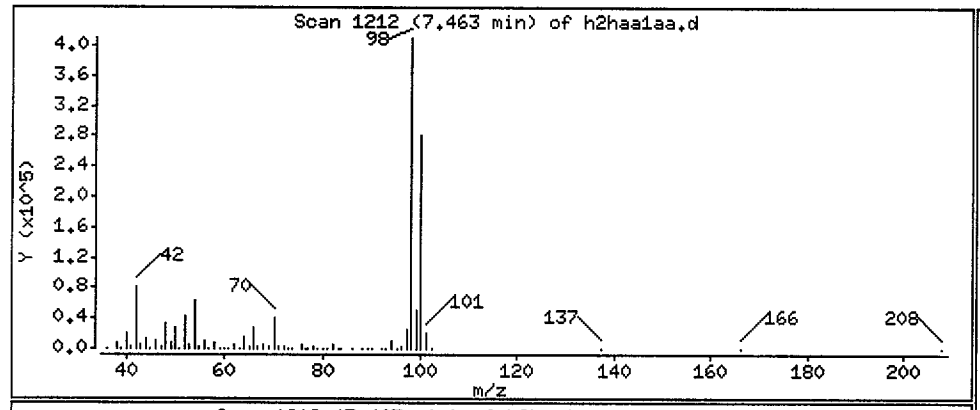
Operator: 22980

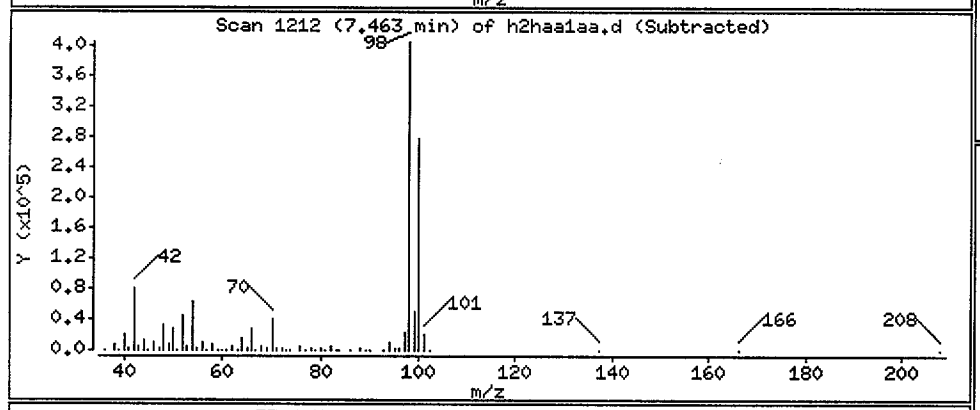
Column phase: J+W 624

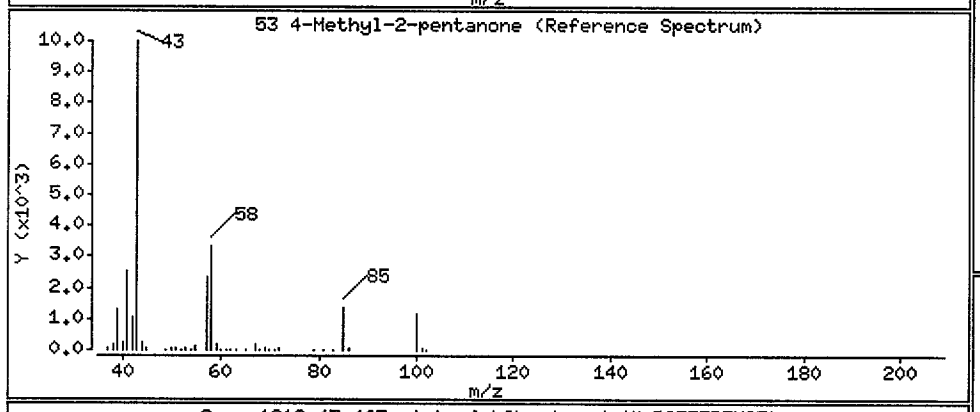
Column diameter: 0.18

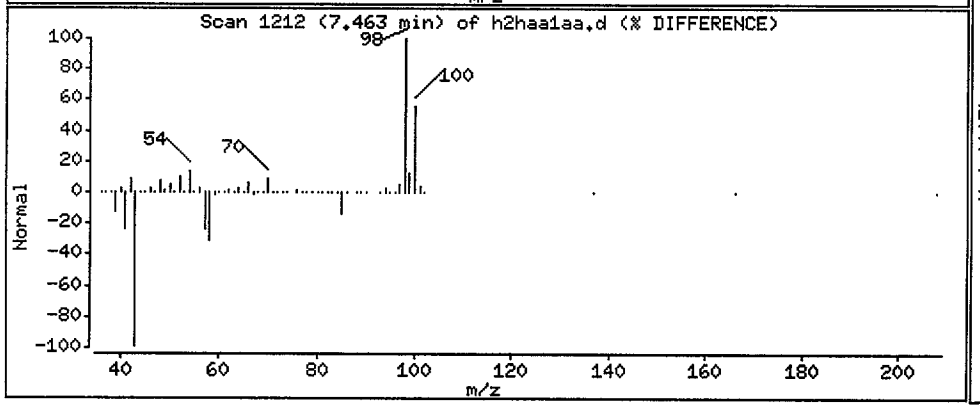
53 4-Methyl-2-pentanone

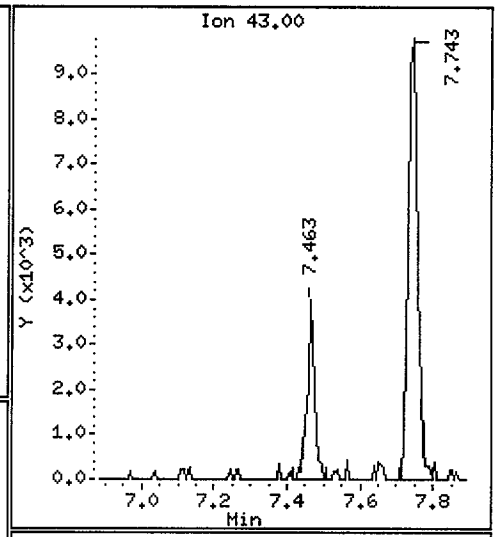
Concentration: 0.021648 ug

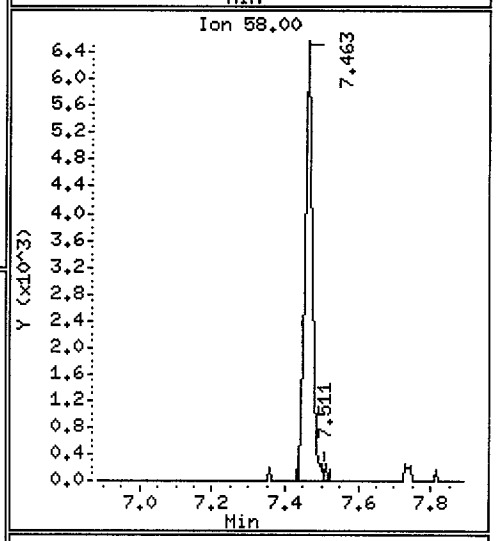


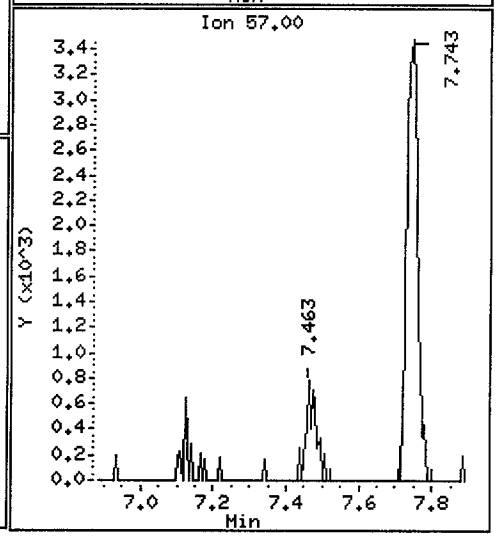












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

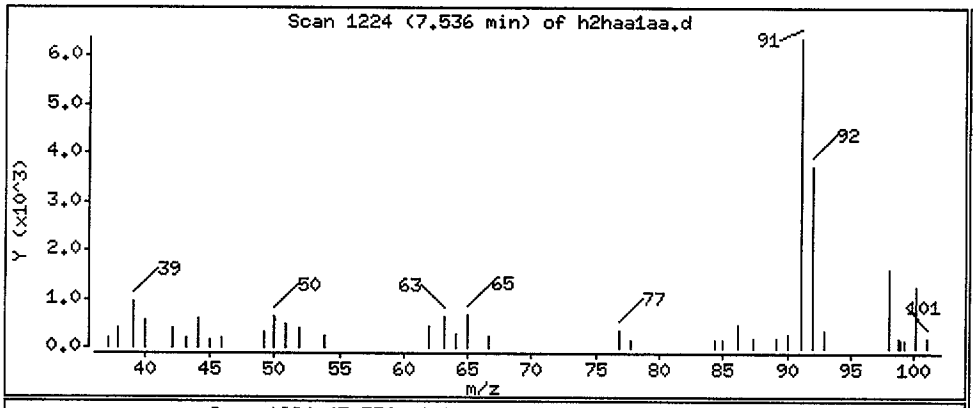
Operator: 22980

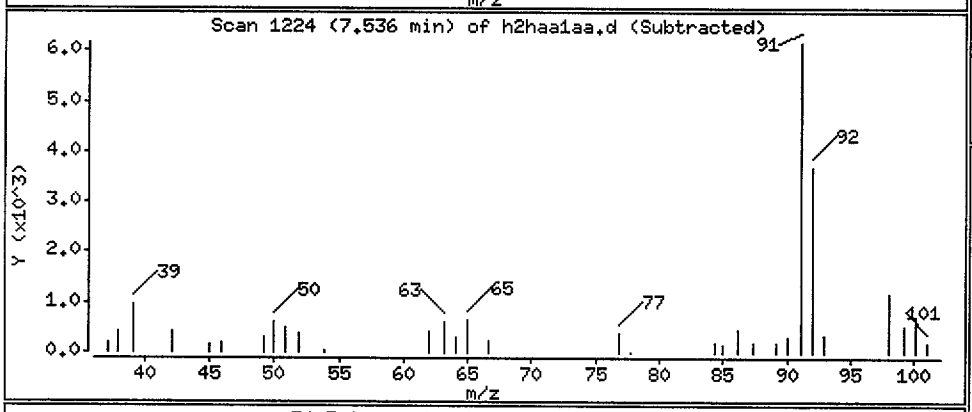
Column phase: J+W 624

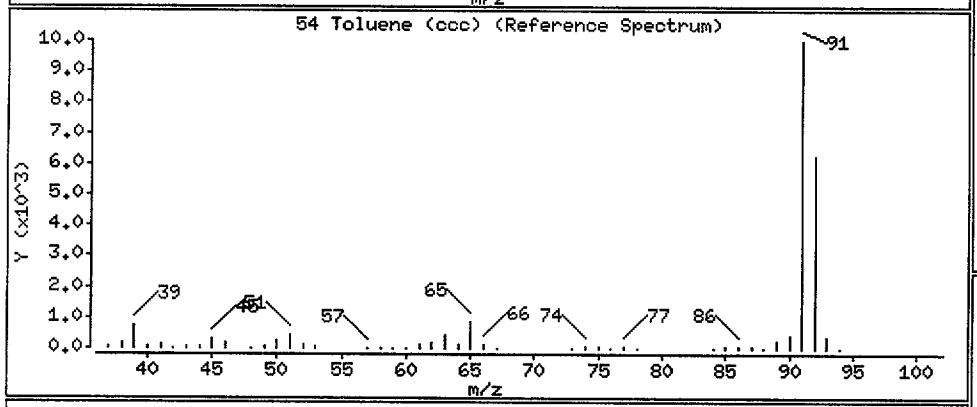
Column diameter: 0.18

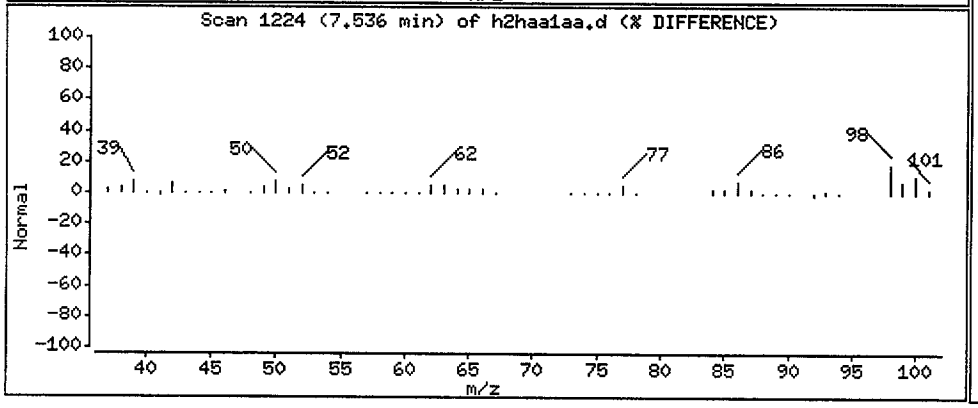
54 Toluene (ccc)

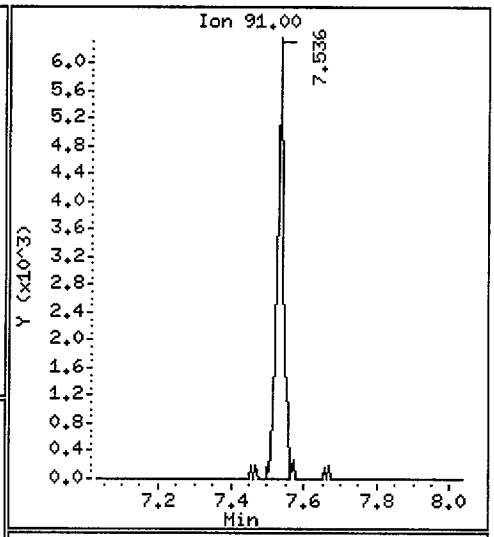
Concentration: 0.0020082 ug

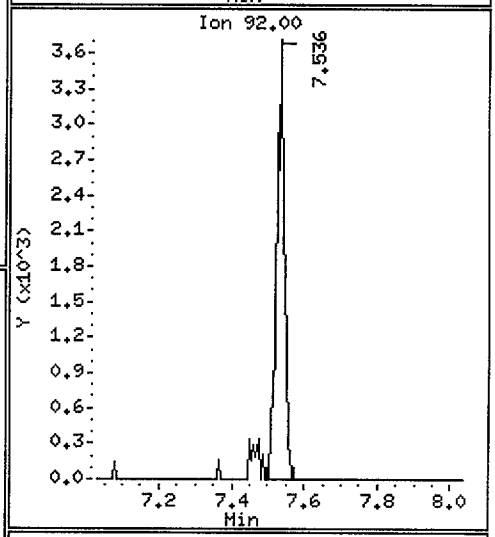


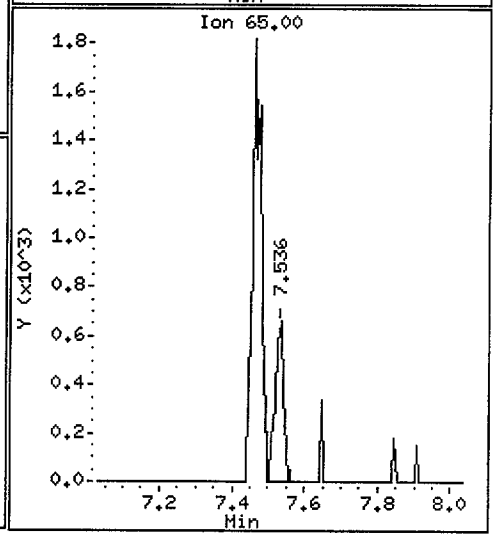












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

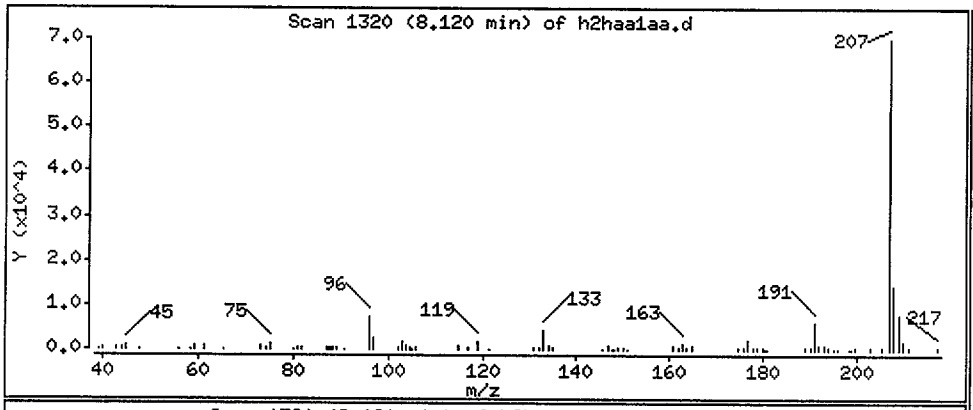
Operator: 22980

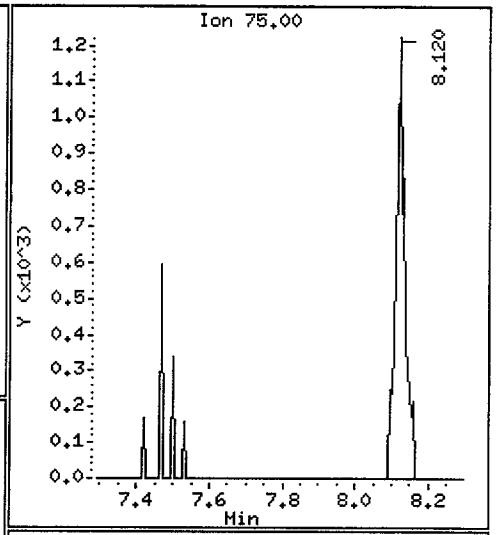
Column phase: J+W 624

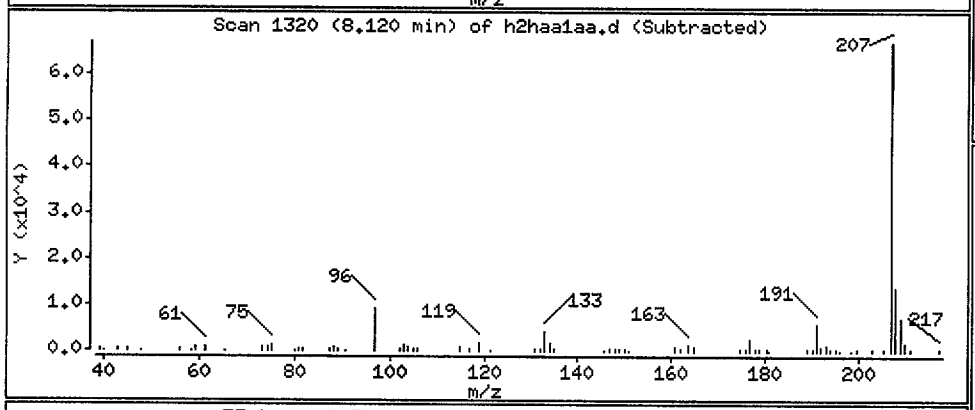
Column diameter: 0.18

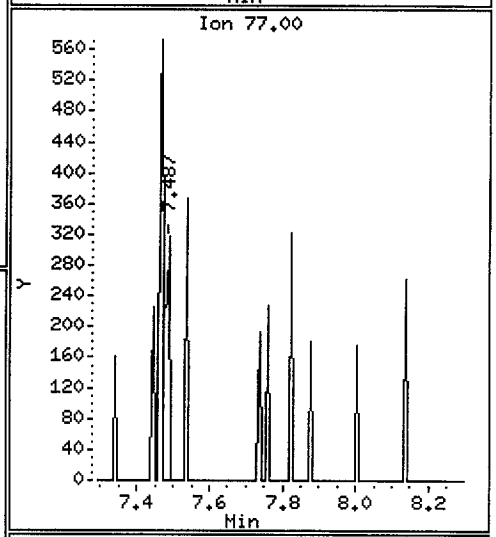
55 trans-1,3-Dichloropropene

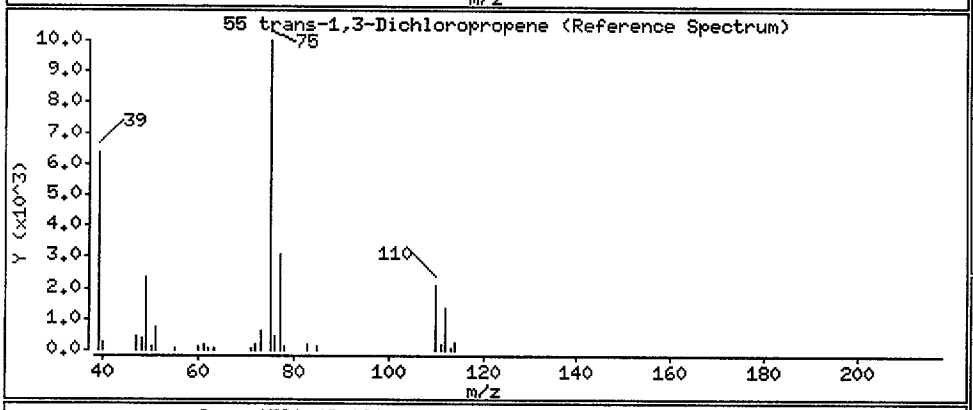
Concentration: 0.018863 ug

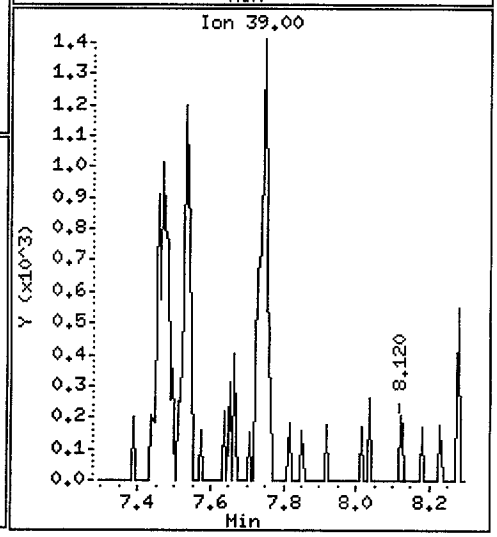


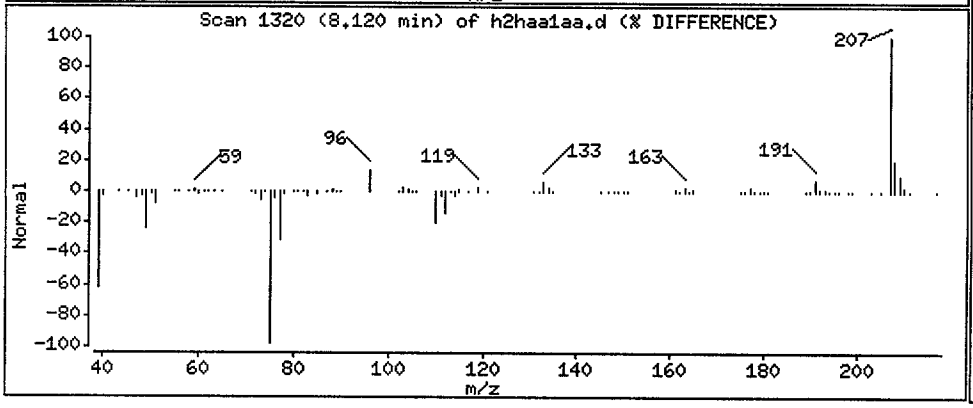












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

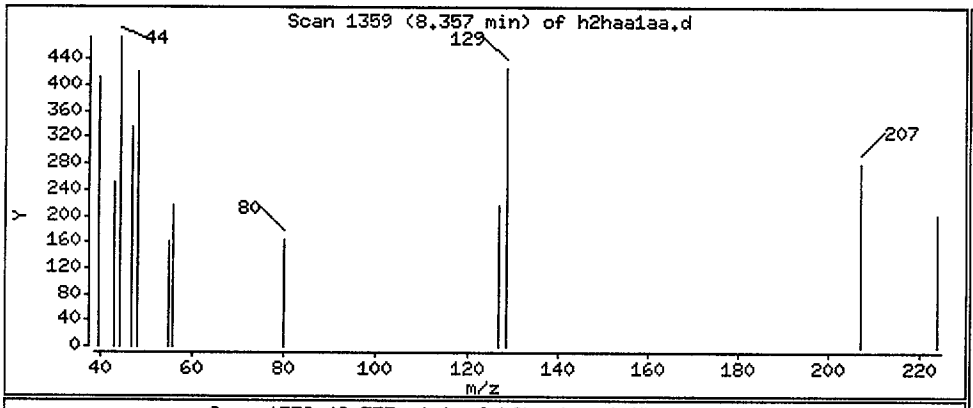
Operator: 22980

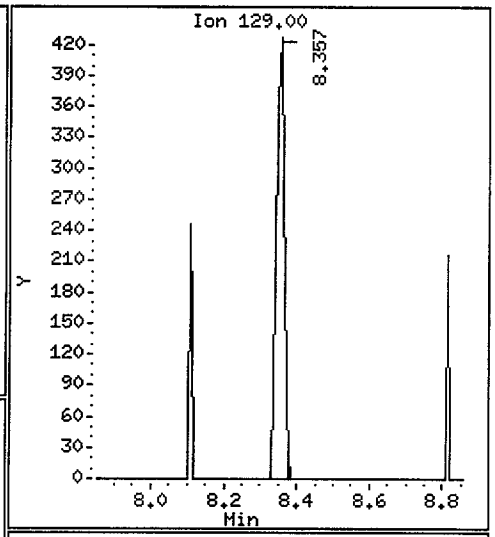
Column phase: J+W 624

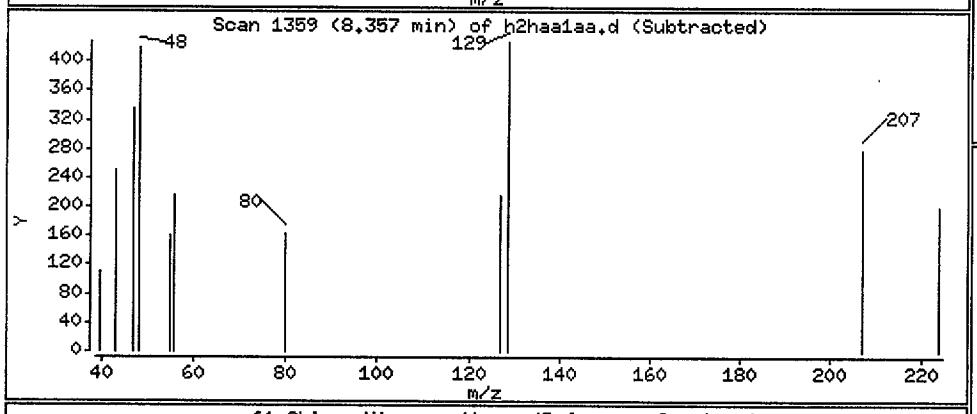
Column diameter: 0.18

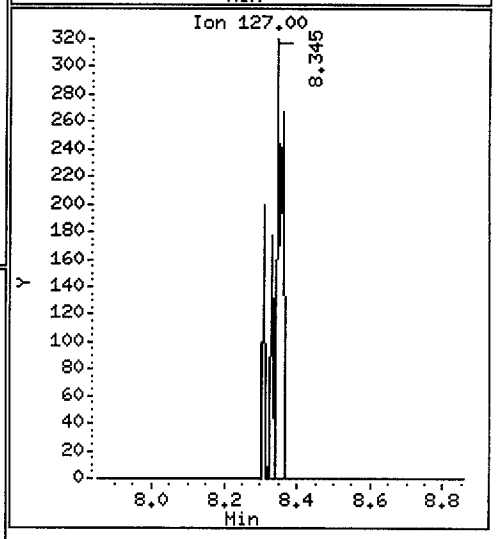
61 Chlorodibromomethane

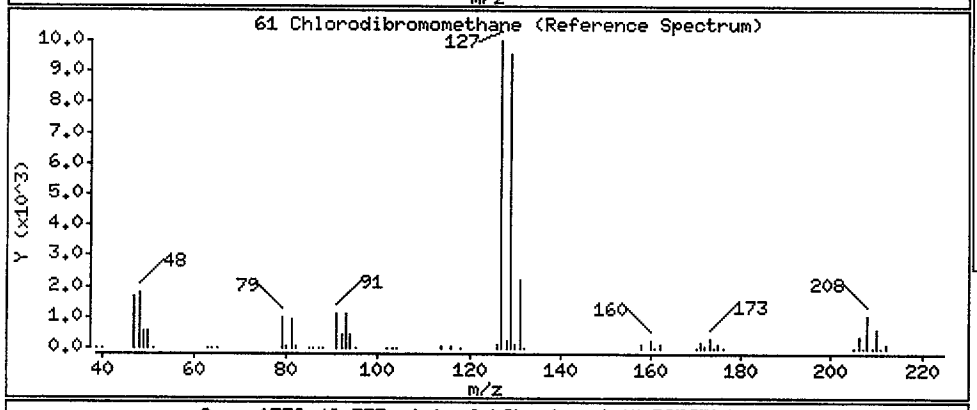
Concentration: 0.021117 ug

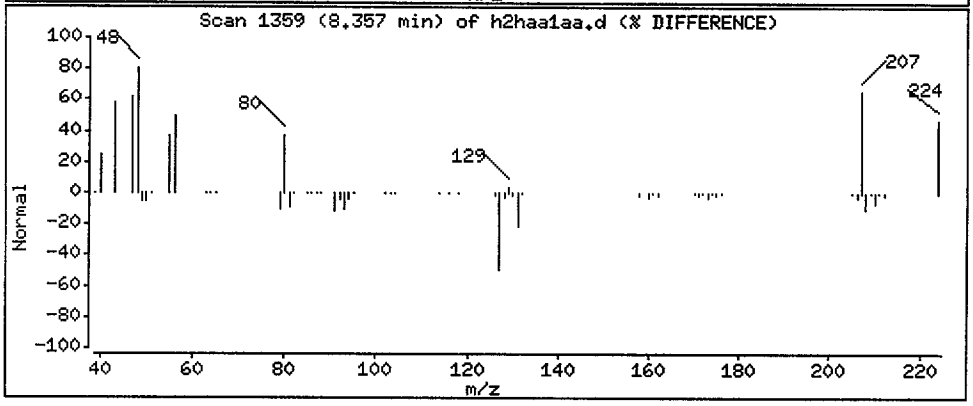












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

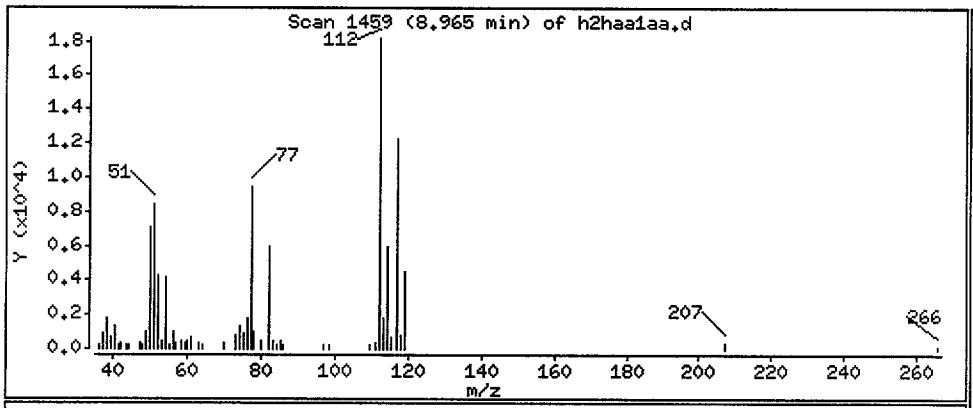
Operator: 22980

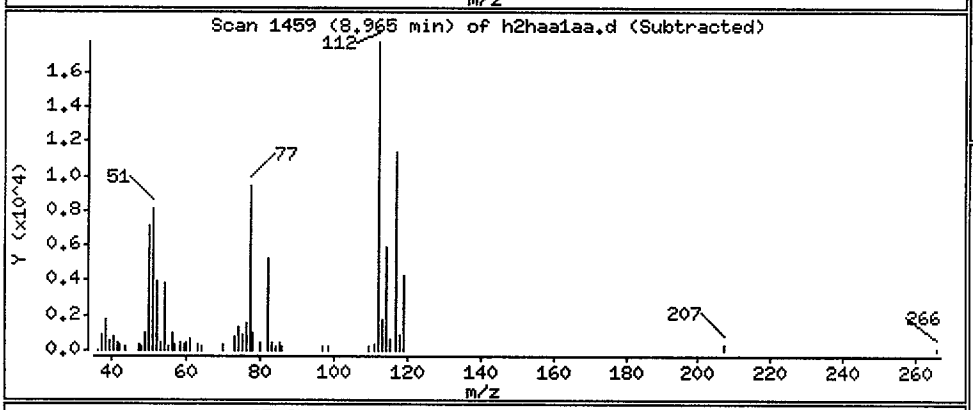
Column phase: J+W 624

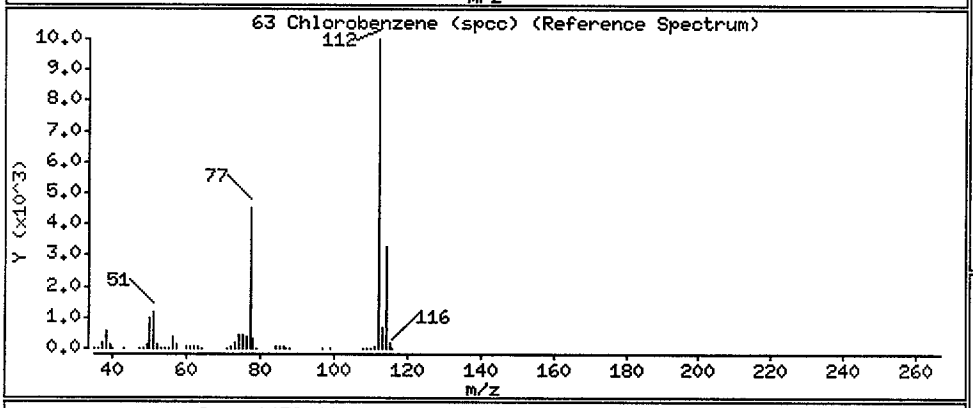
Column diameter: 0.18

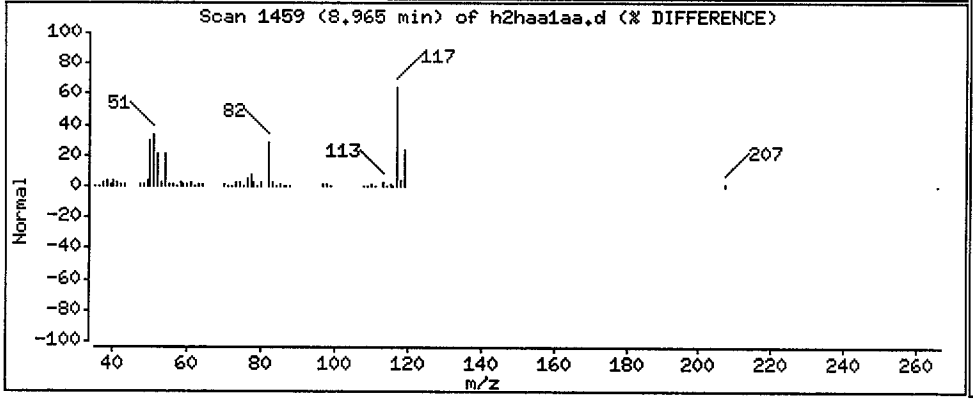
63 Chlorobenzene (spcc)

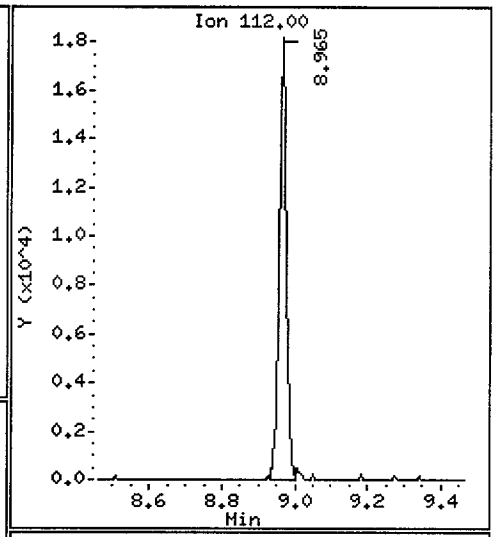
Concentration: 0.011591 ug

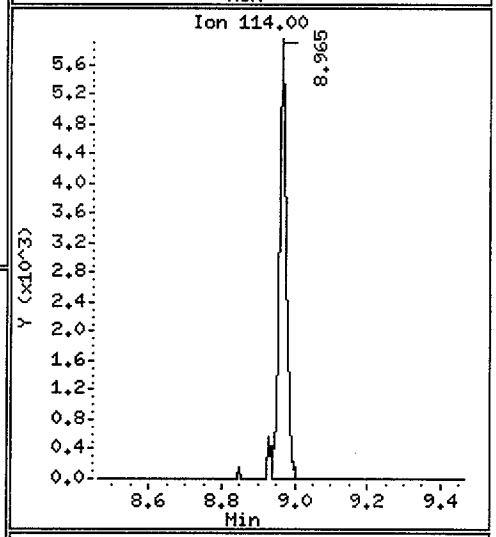


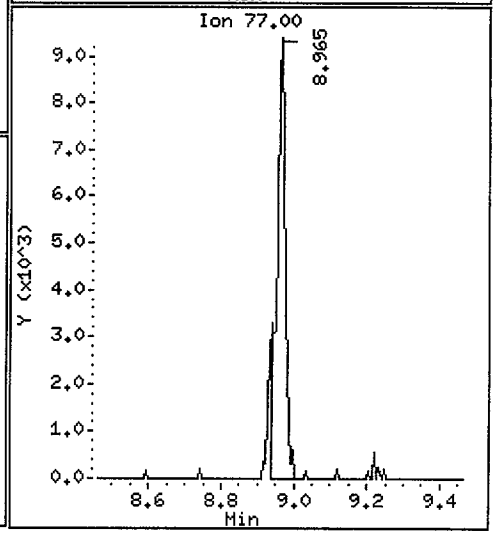












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

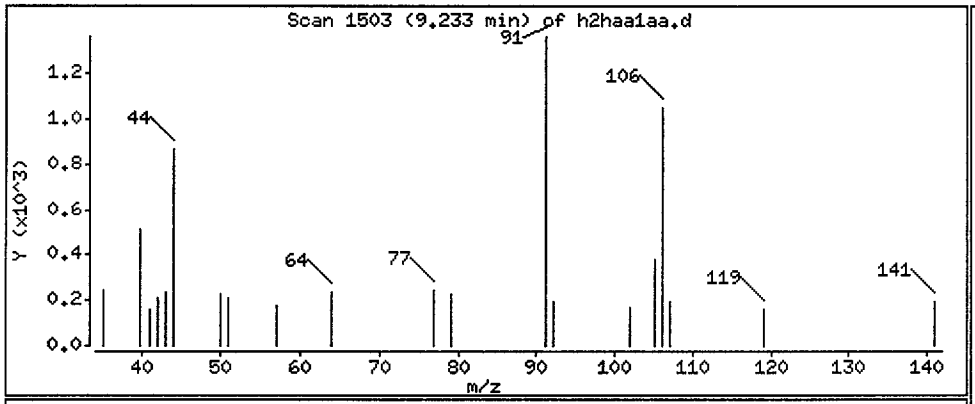
Operator: 22980

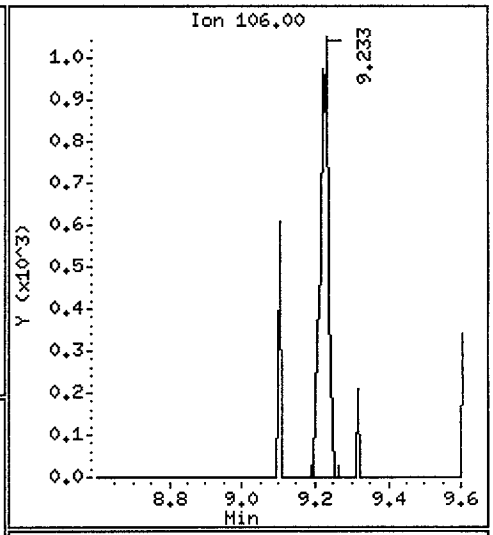
Column phase: J+W 624

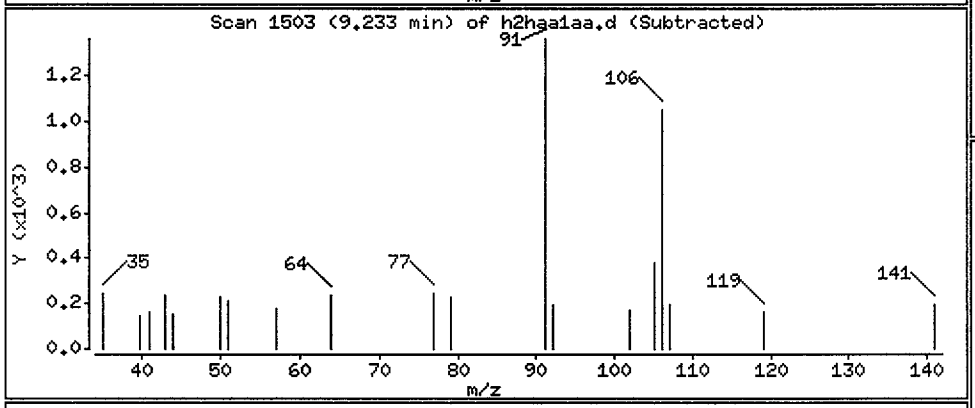
Column diameter: 0.18

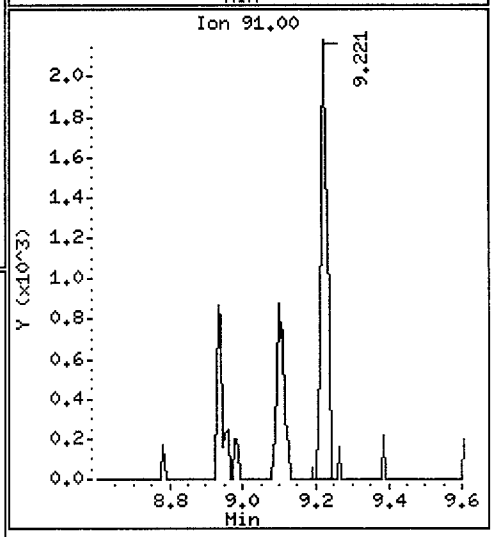
65 Ethylbenzene (ccc)

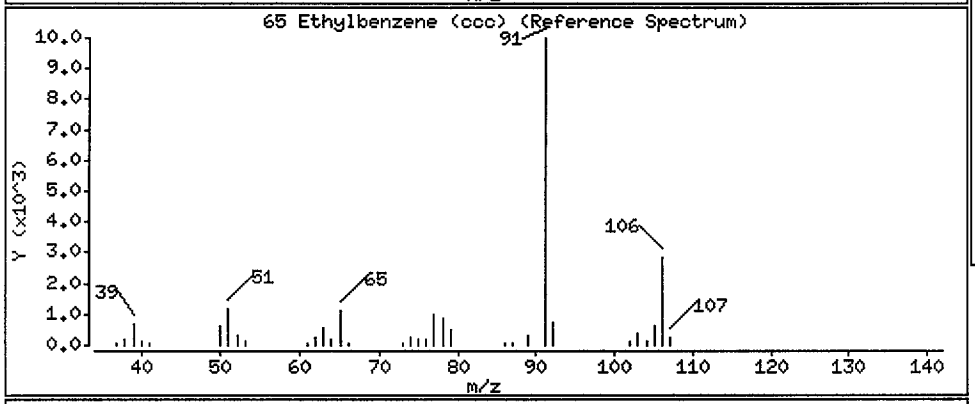
Concentration: 0.0011981 ug

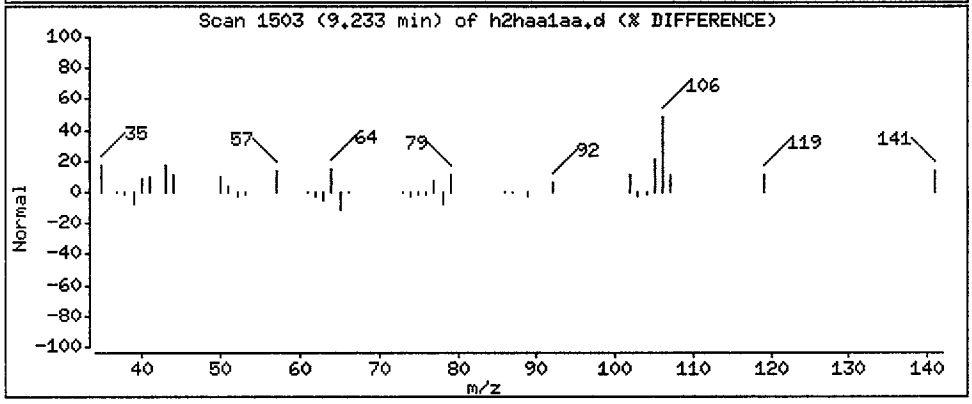












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

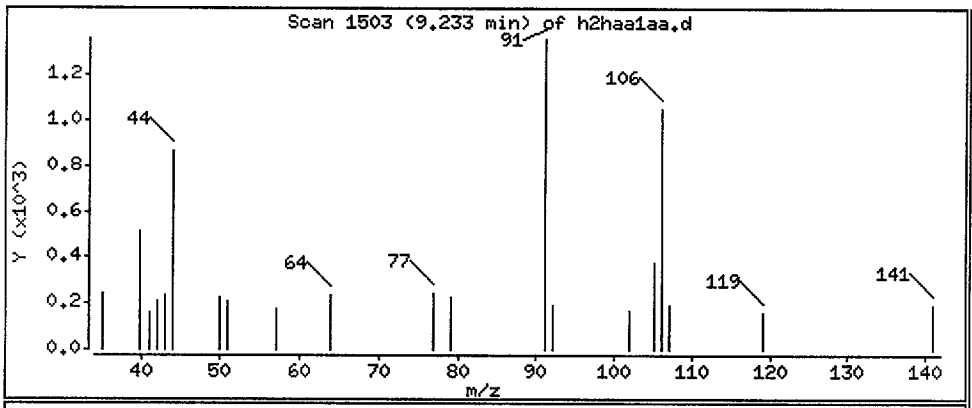
Operator: 22980

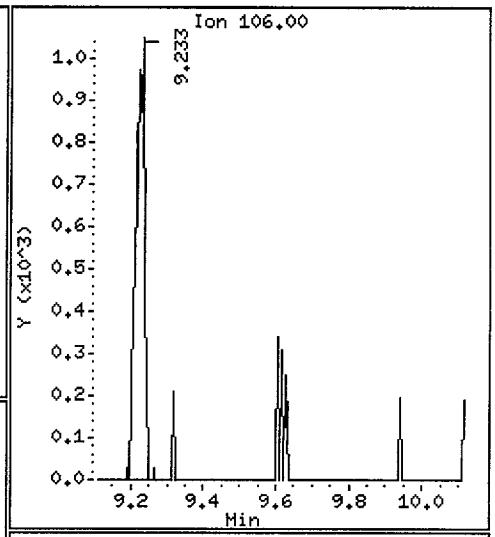
Column phase: J+W 624

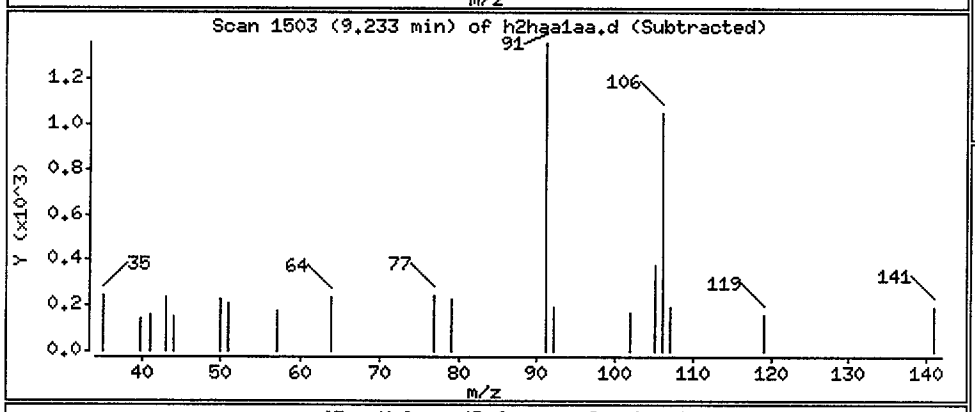
Column diameter: 0.18

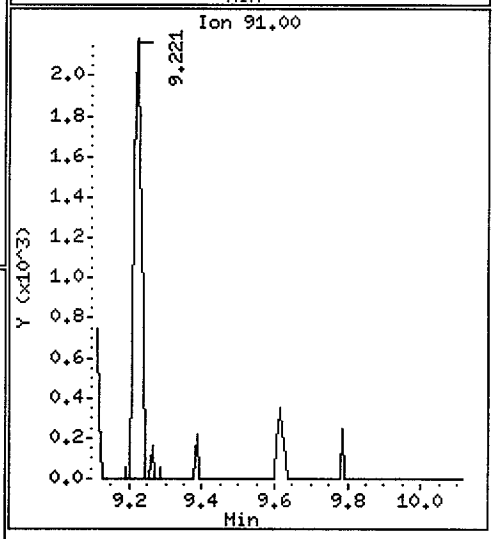
67 o-Xylene

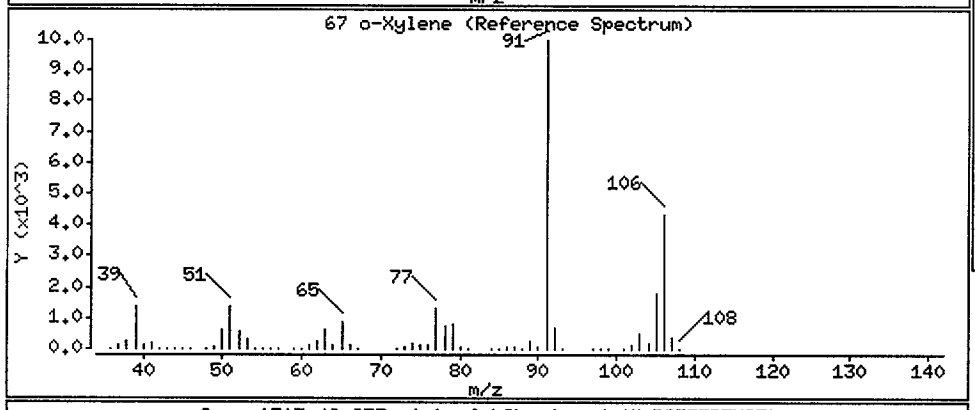
Concentration: 0.0011220 ug

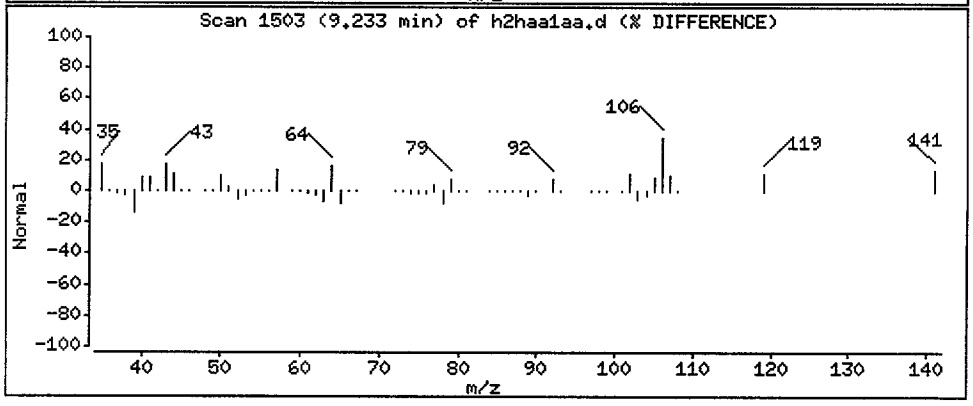












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

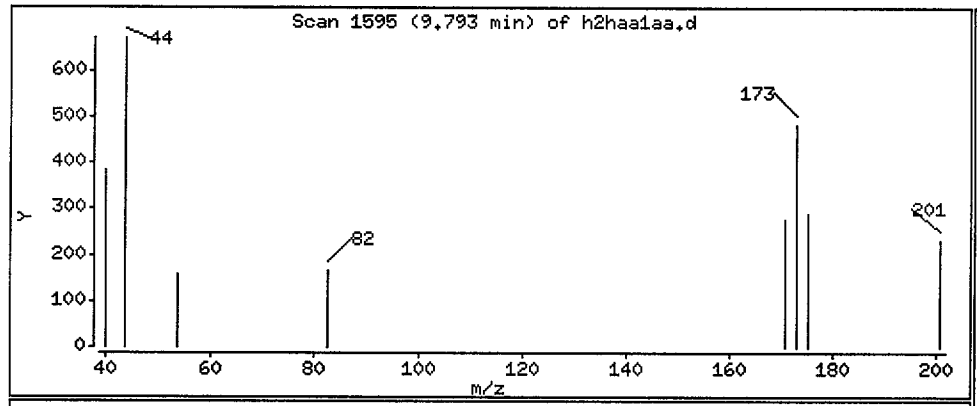
Operator: 22980

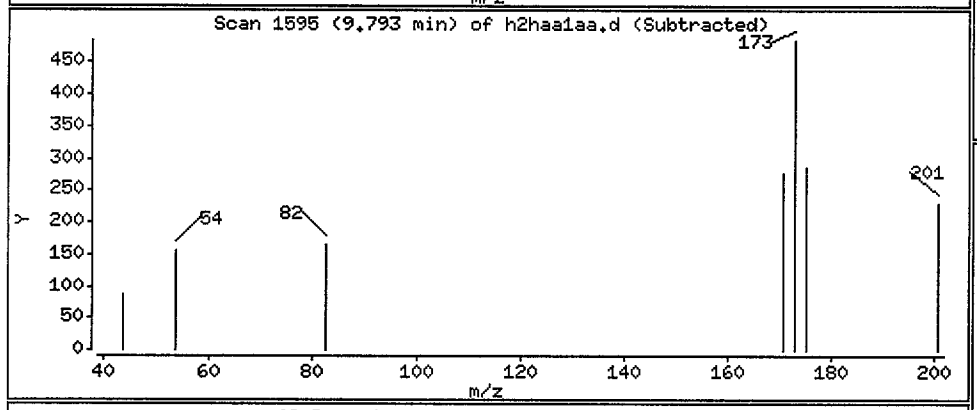
Column phase: J+W 624

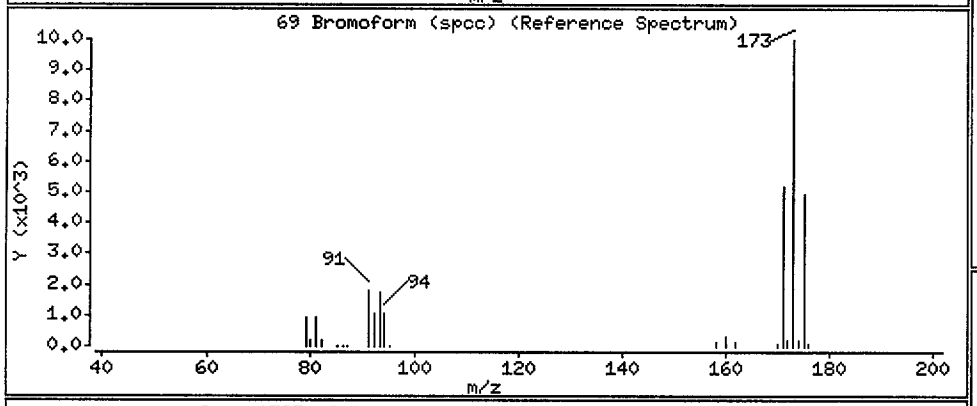
Column diameter: 0.18

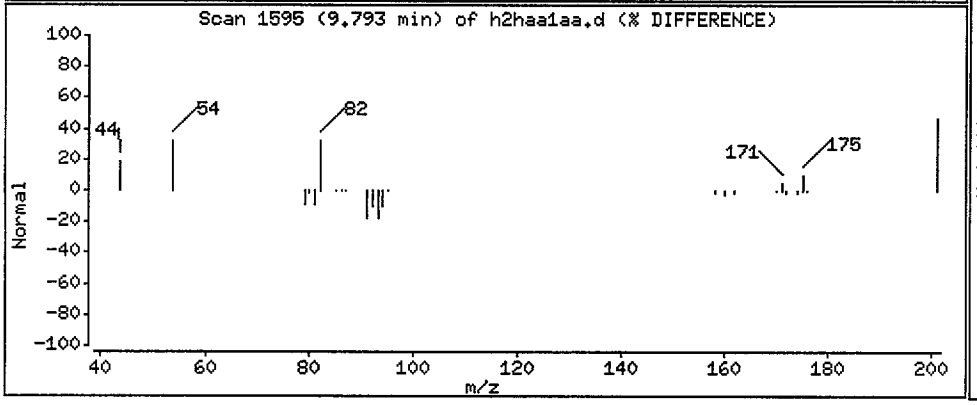
69 Bromoform (spcc)

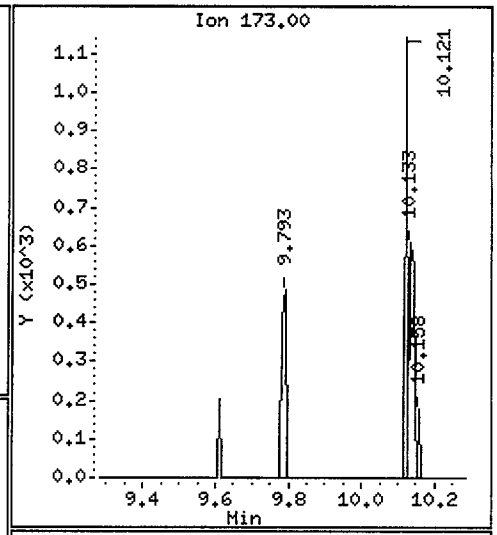
Concentration: 0.024441 ug

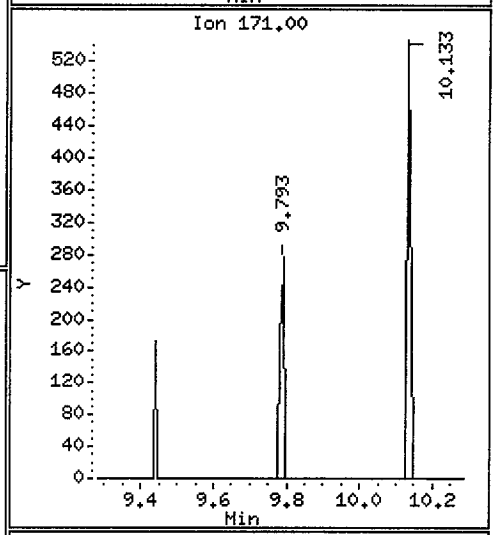


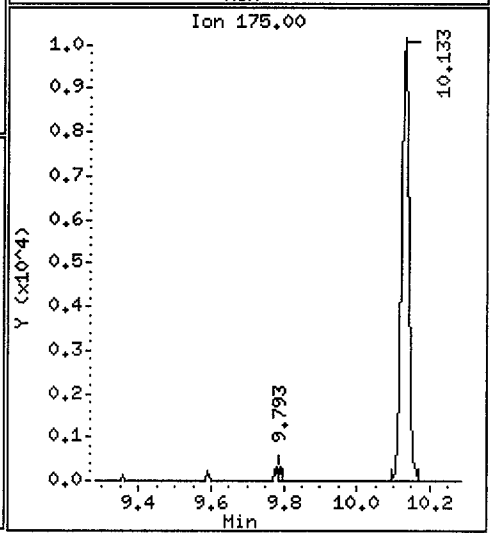












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

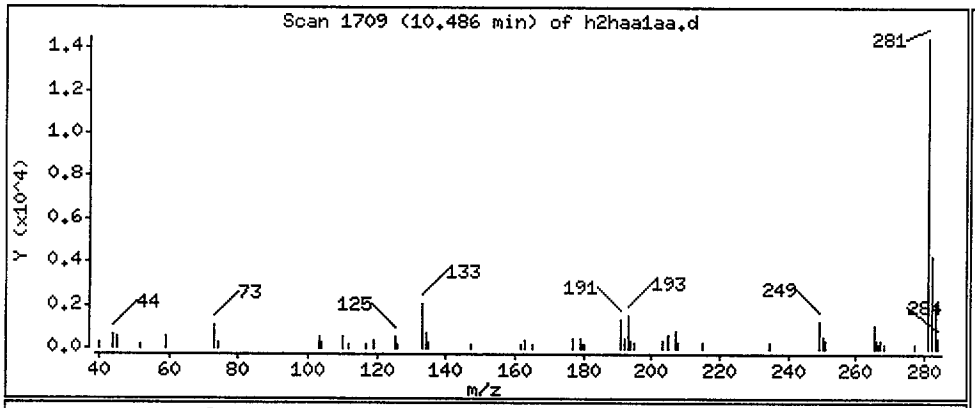
Operator: 22980

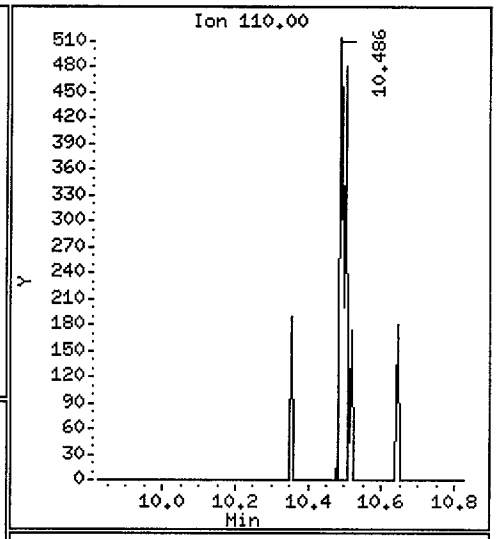
Column phase: J+W 624

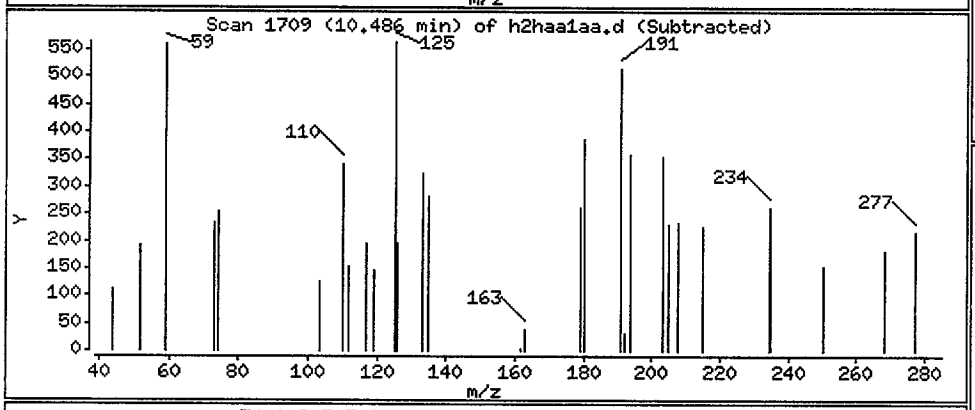
Column diameter: 0.18

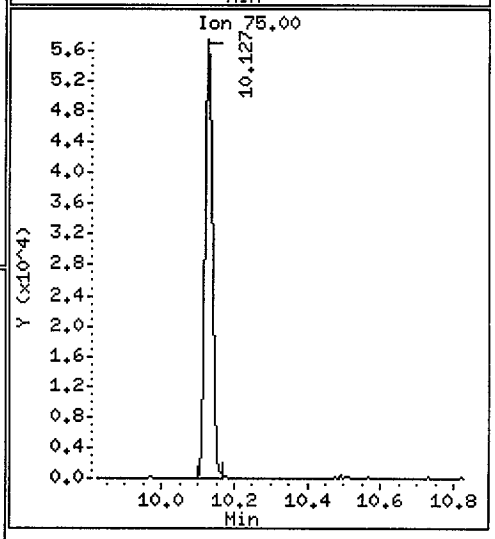
74 1,2,3-Trichloropropane

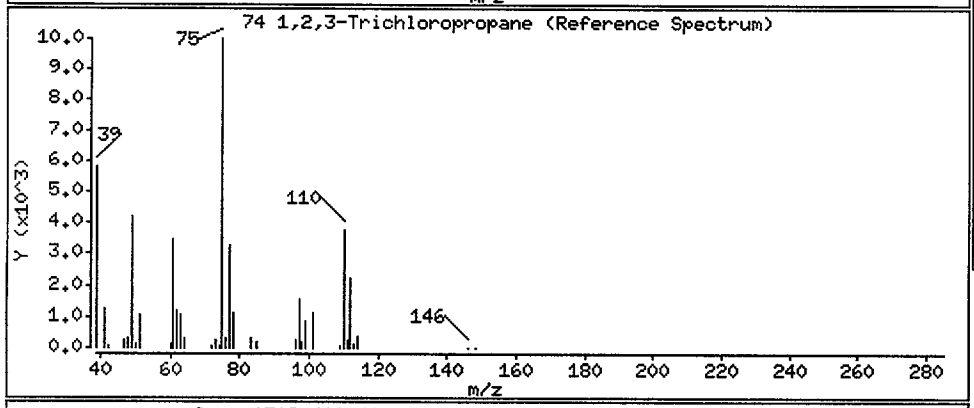
Concentration: 0.0072810 ug

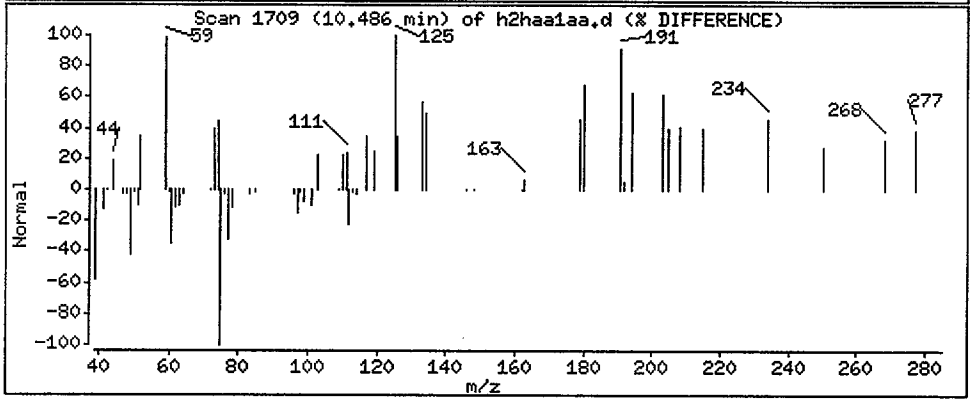












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

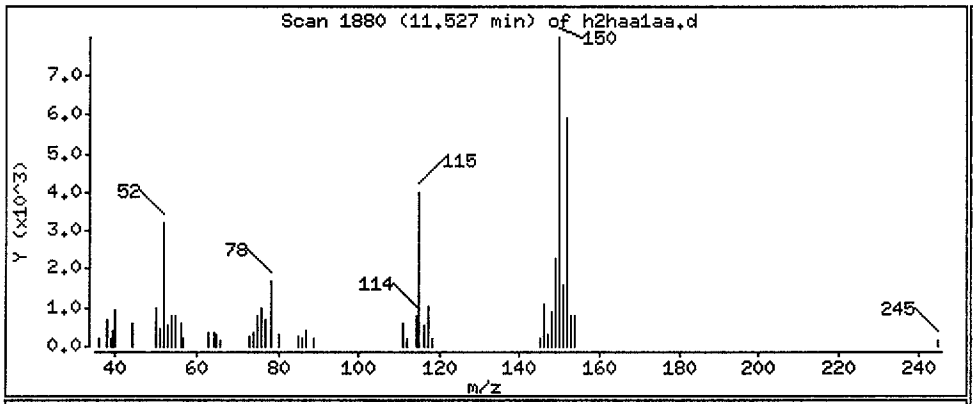
Operator: 22980

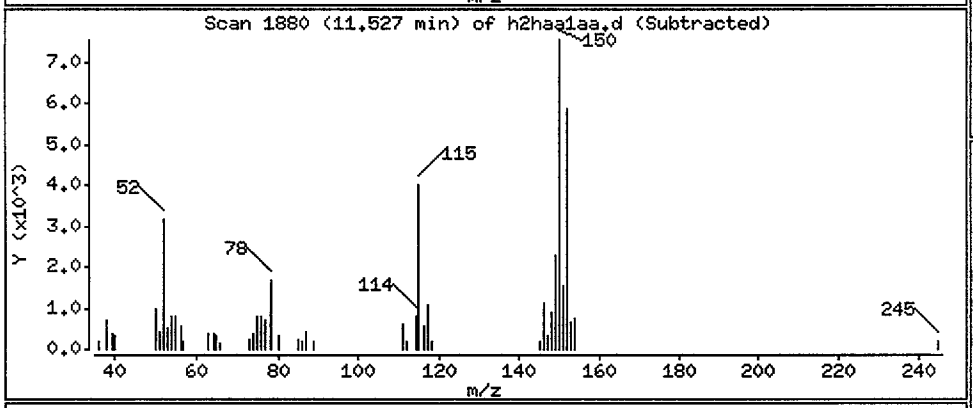
Column phase: J+W 624

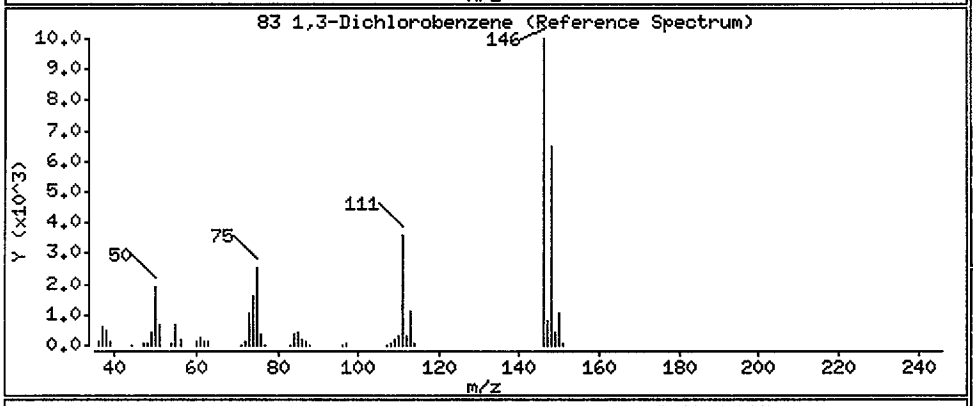
Column diameter: 0.18

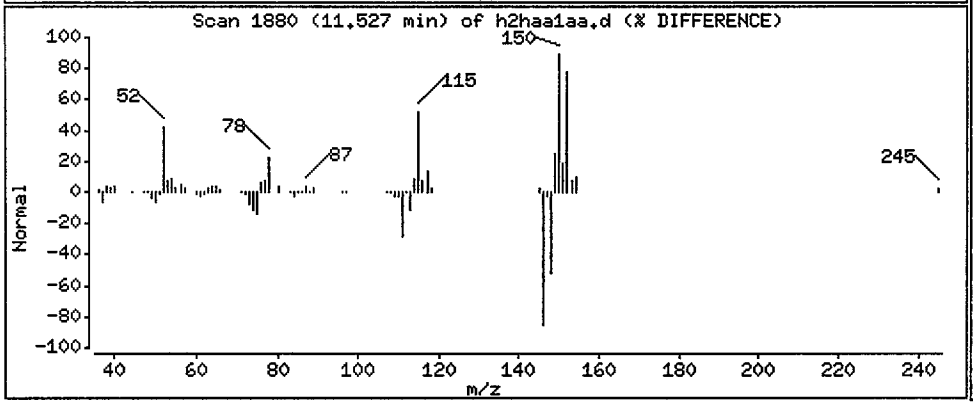
83 1,3-Dichlorobenzene

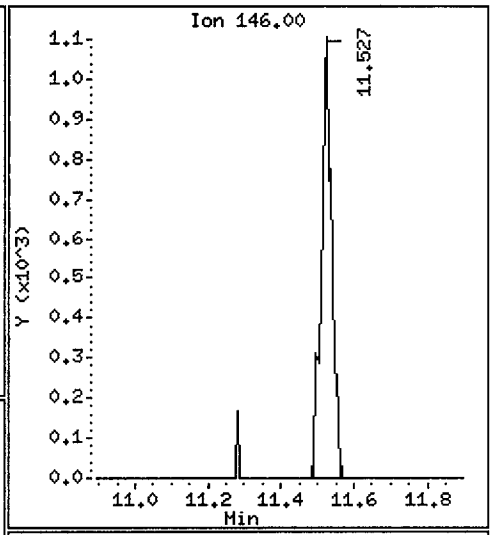
Concentration: 0.0013545 ug

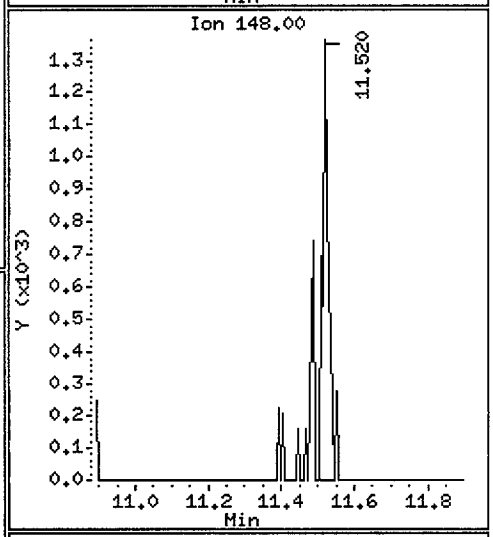


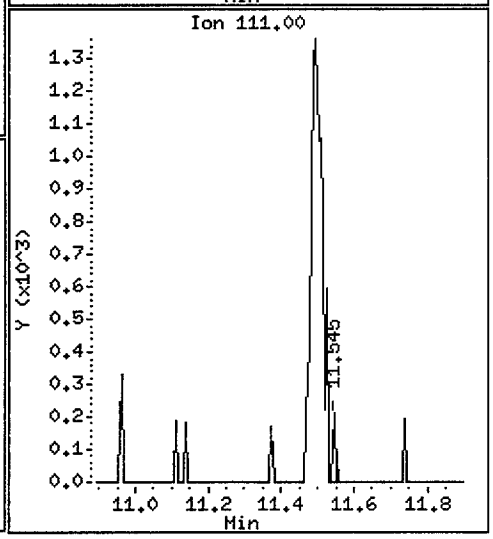












Data File: /chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2HAA1AA,1,0,,

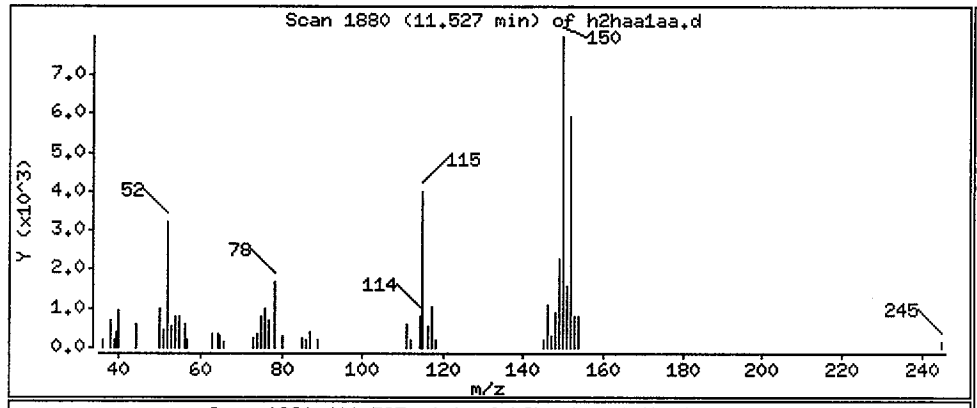
Operator: 22980

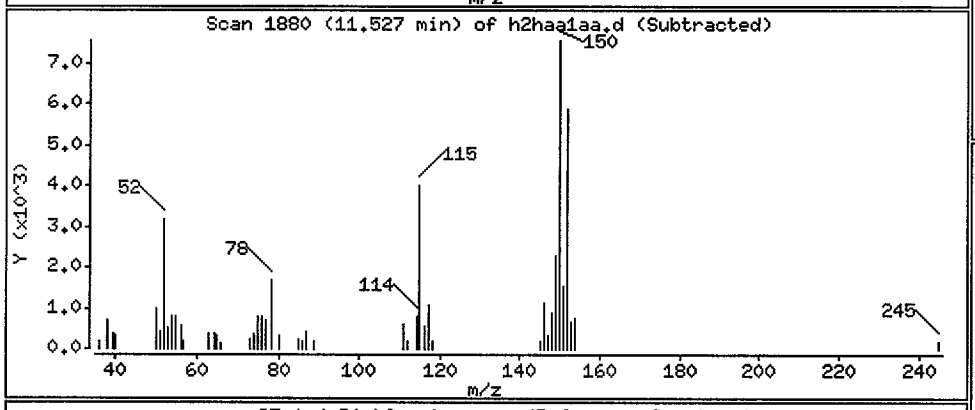
Column phase: J+W 624

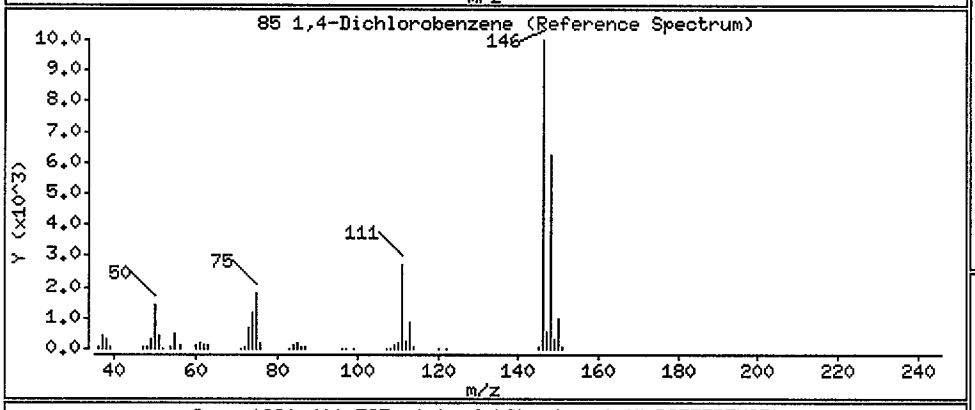
Column diameter: 0.18

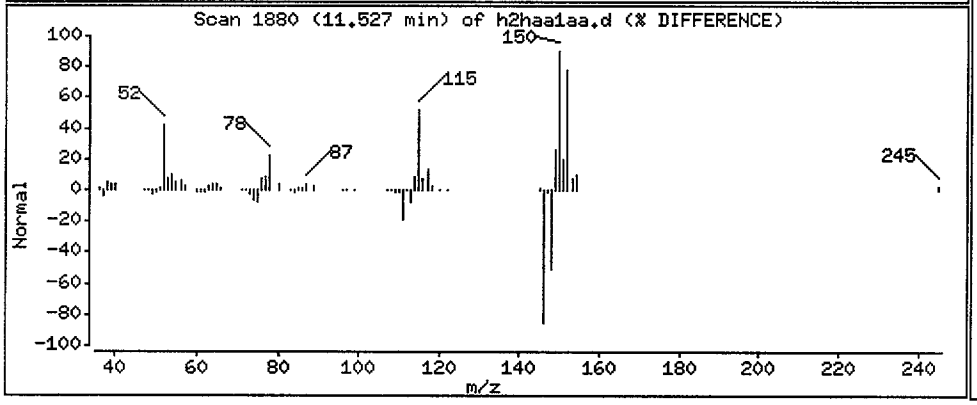
85 1,4-Dichlorobenzene

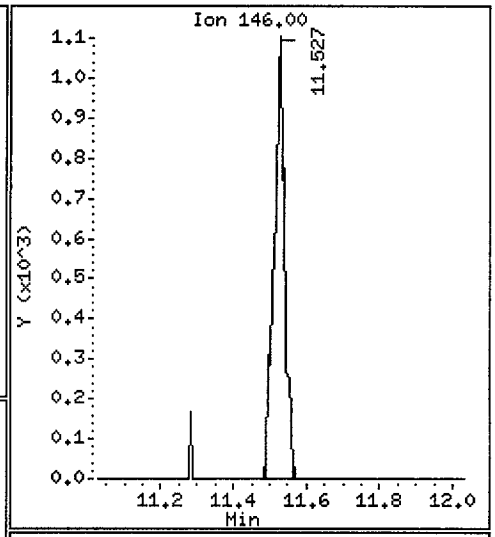
Concentration: 0.0014562 ug

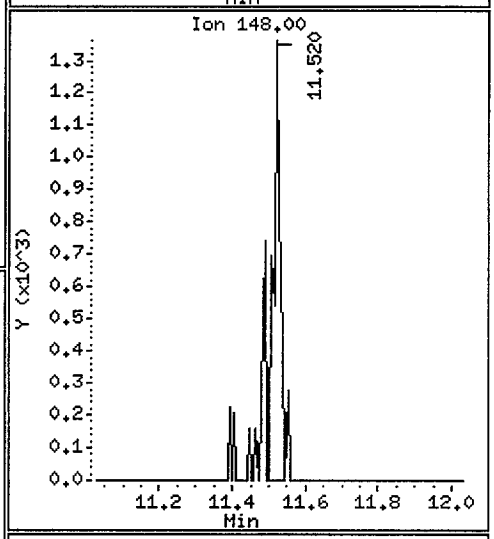


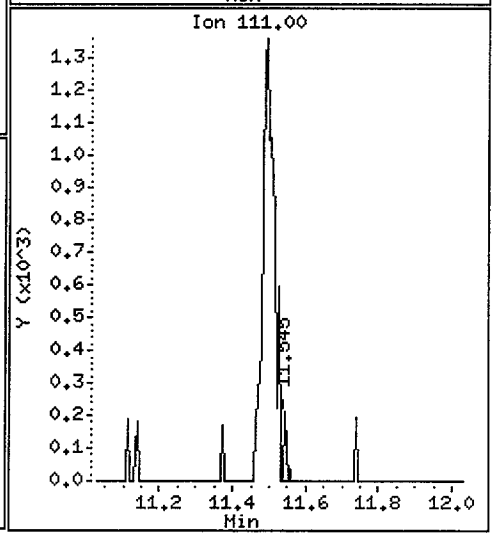












Data File: /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Report Date: 14-Apr-2006 17:01

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d
Lab Smp Id: H2HAA1AA Client Smp ID: G-3013-R2-VOST PAIR
Inj Date : 07-APR-2006 15:57
Operator : 22980 Inst ID: mz.i
Smp Info : H2HAA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	8.941	1243259	10.000
* 3 1,4 Dichlorobenzene-d4	11.496	820050	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
8.126	151303	1.21698697	0.030425	91	NIST05.1	73123	2
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
10.504	90517	1.10379855	0.027595	90	NIST05.1	122479	3

G.

PW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

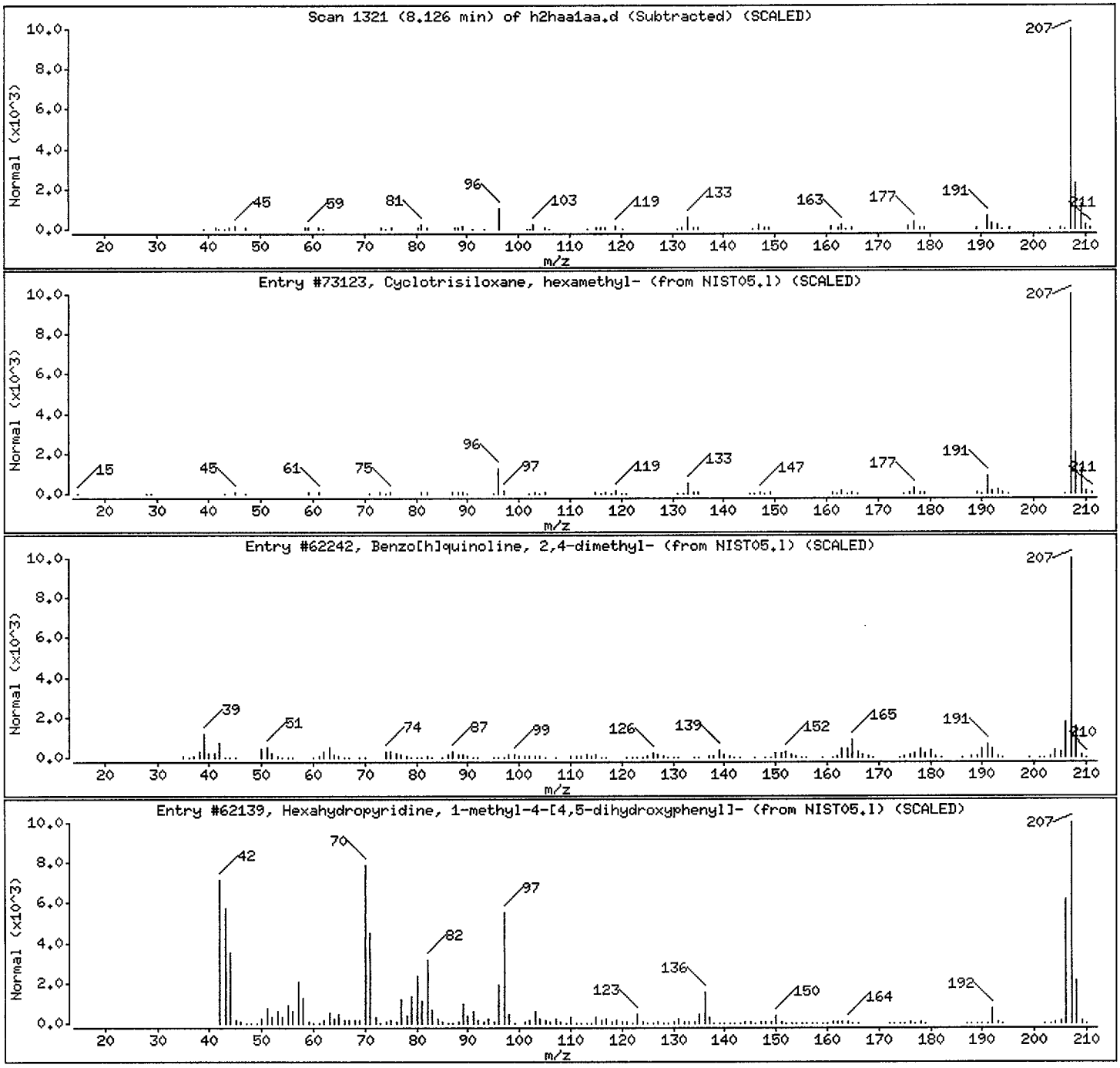
Sample Info: H2HAA1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.1	73123	91	C6H18O3Si3	222
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.1	62242	59	C15H13N	207
Hexahydropyridine, 1-methyl-4-[4,5-dihyd	94427-47-1	NIST05.1	62139	53	C12H17NO2	207



Data File: /var/chem/gcms/mz.i/Z040706.b/h2haa1aa.d

Date : 07-APR-2006 15:57

Client ID: G-3013-R2-VOST PAIR

Instrument: mz.i

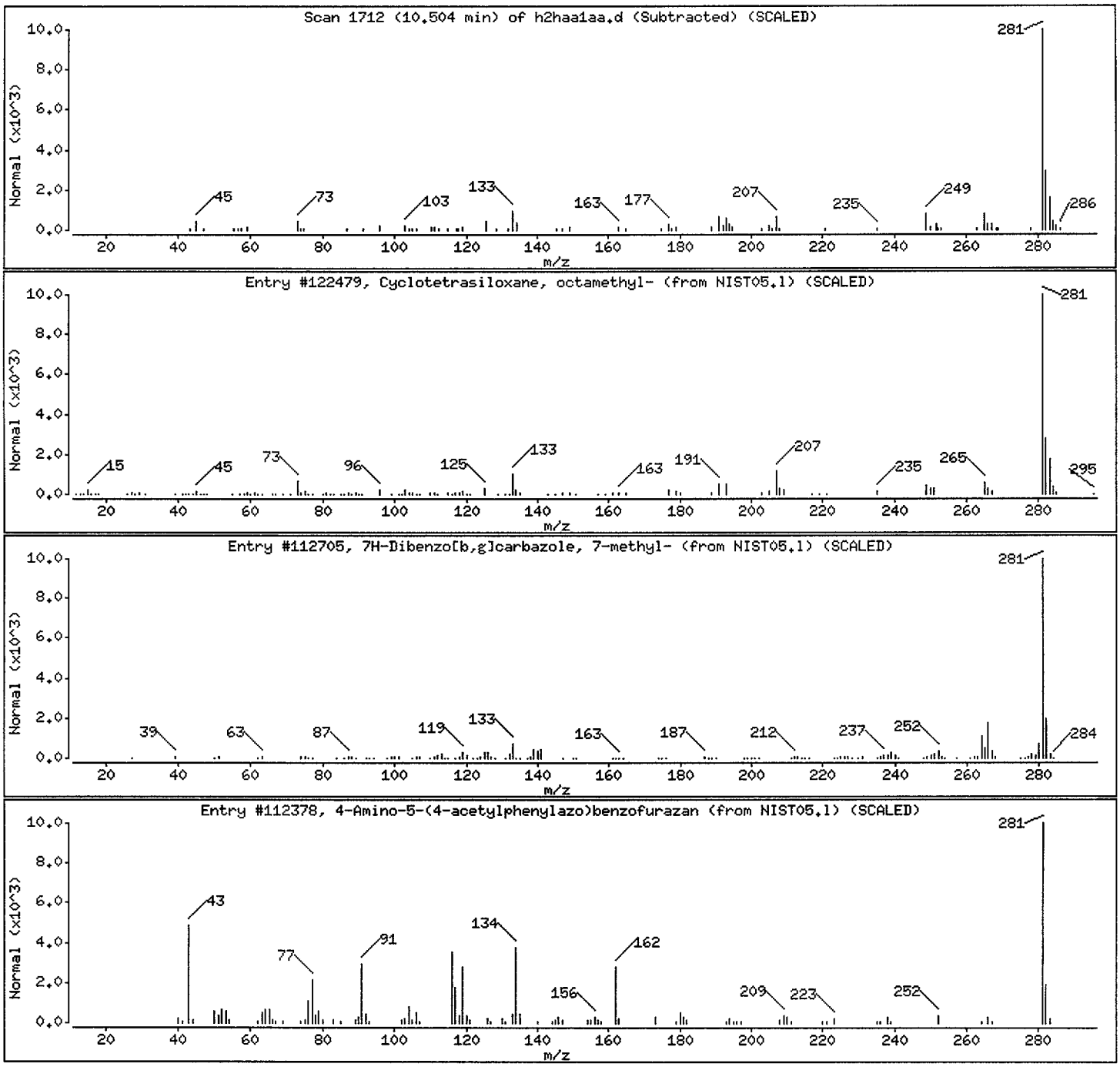
Sample Info: H2HAA1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST05.1	122479	90	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST05.1	112705	56	C21H15N	281
4-Amino-5-(4-acetylphenylazo)benzofuraza	166766-09-2	NIST05.1	112378	50	C14H11N5O2	281



STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.12 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.15 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-020 **Work Order #:** H2HAD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Lab Smp Id: H2HAD1AA Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 18:59
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	934352	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	165161	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	218898	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	143196	11.0605	11.060
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	162680	10.8658	10.866
$ 6 Toluene-d8	98	7.461	7.455	(0.835)	748316	10.3118	10.312
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	199574	9.04034	9.0403
15 Bromomethane	94	1.420	1.414	(0.251)	903	~~0.92487~~	~~0.92487~~
22 Acetone	43	2.138	2.126	(0.377)	7533	4.66126	4.6612
23 *Iodomethane	142	2.193	2.181	(0.387)	1129	~~0.56860~~	~~0.56860~~
27 Methylene Chloride	84	2.503	2.503	(0.442)	17021	1.08924	1.0892
45 1,2-Dichloroethane	62	5.326	5.326	(0.940)	2248	0.11525	0.11525
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	5871	~~0.71963~~	~~0.71962~~
54 Toluene (ccc)	91	7.528	7.522	(0.843)	13651	0.14523	0.14523

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
55 trans-1,3-Dichloropropene	75	7.479	7.784	(0.837)	80	~~0.63065~~	~~0.63065~~

MM 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2had1aa.d
Lab Smp Id: H2HAD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	934352	-13.38
2 Chlorobenzene-d5	188899	94450	377798	165161	-12.57
3 1,4 Dichlorobenze	220143	110072	440286	218898	-0.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	-0.01
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 05-Apr-2006 19:16

STL Knoxville

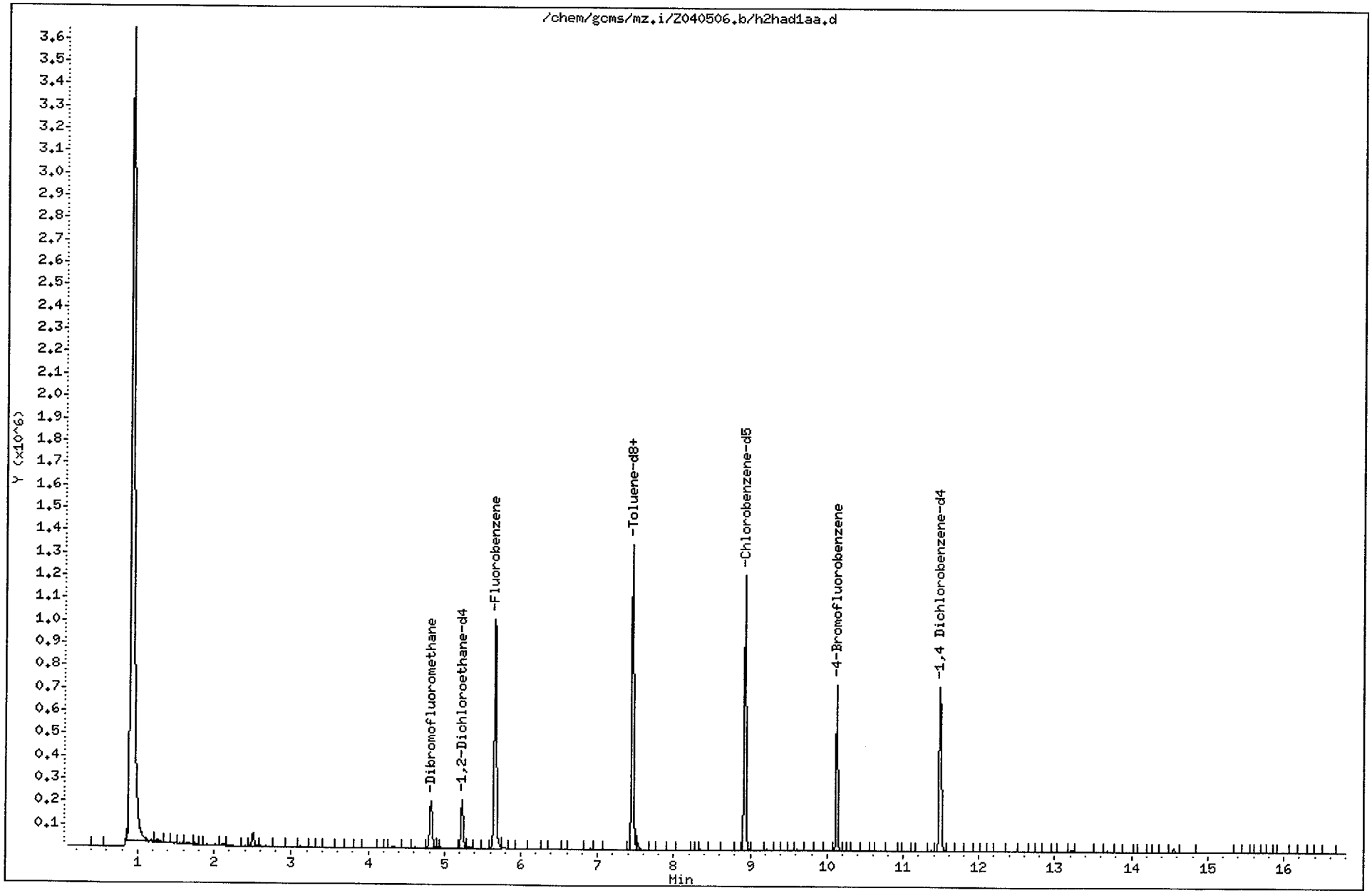
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HAD1AA
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.060	110.60	71-127
$ 4 Dibromofluorometha	10.000	10.866	108.66	79-120
$ 6 Toluene-d8	10.000	10.312	103.12	80-120
$ 7 4-Bromofluorobenze	10.000	9.0403	90.40	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d
Date : 05-APR-2006 18:59
Client ID: G-3014-R2-VOST COND
Sample Info: H2HAD1AA,1,0,,
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1.0,,

Purge Volume: 25.0

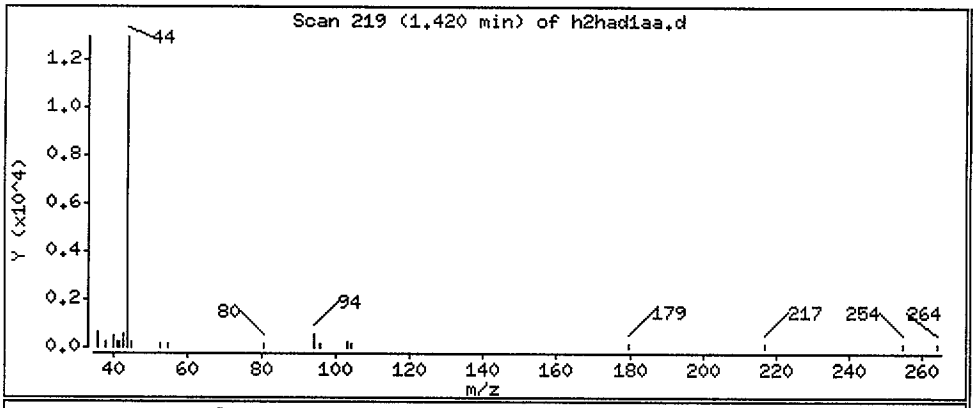
Operator: 063605

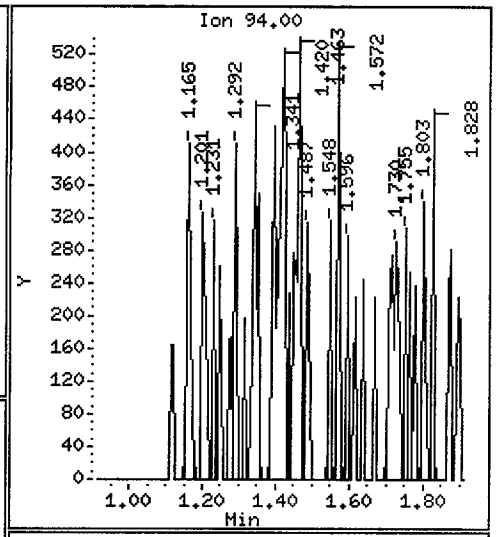
Column phase: J+W 624

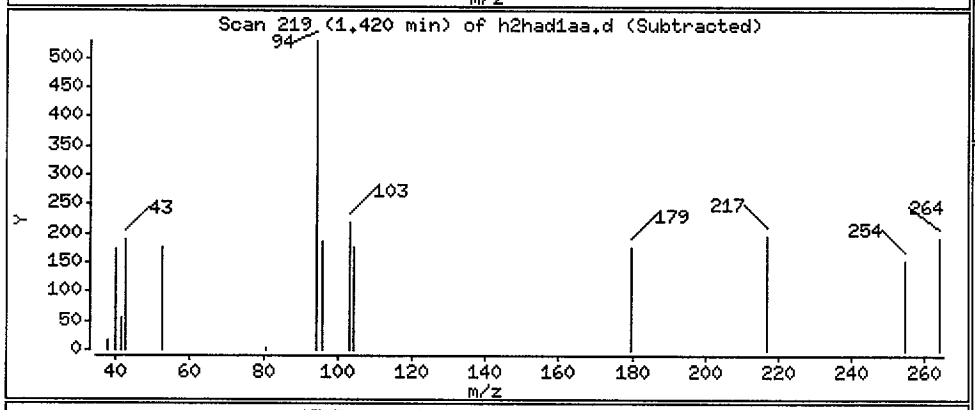
Column diameter: 0.18

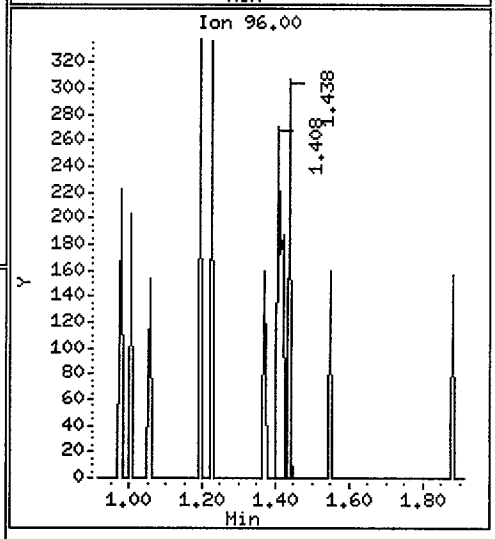
15 Bromomethane

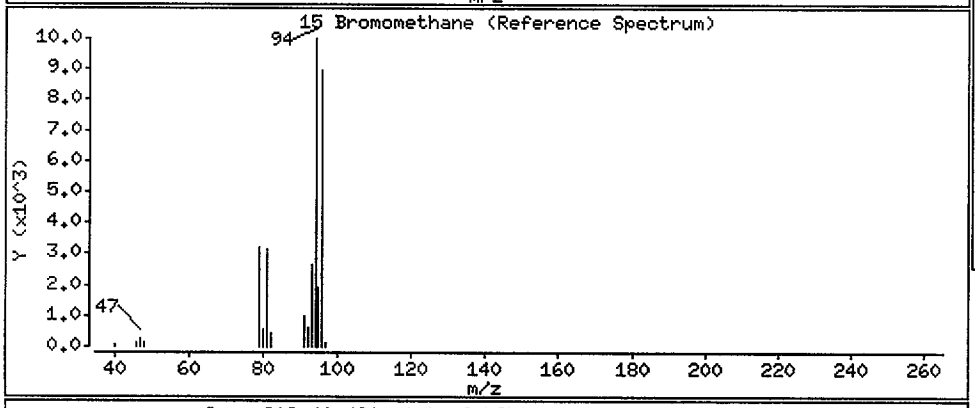
Concentration: 0.92487 ug/L

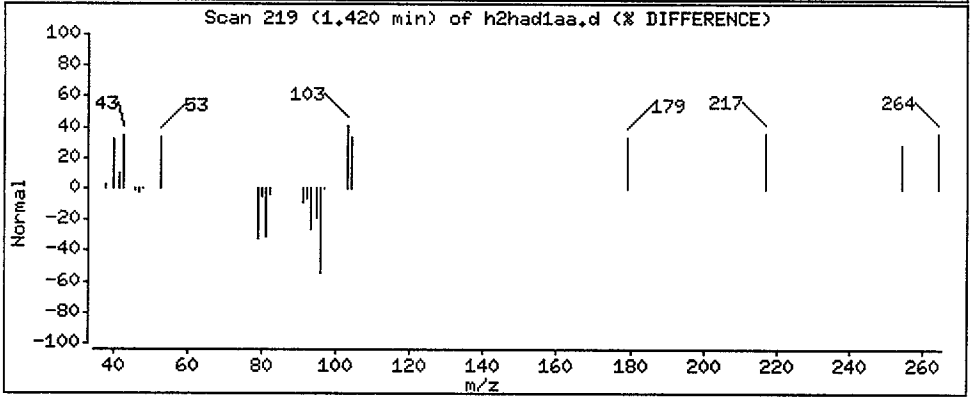












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

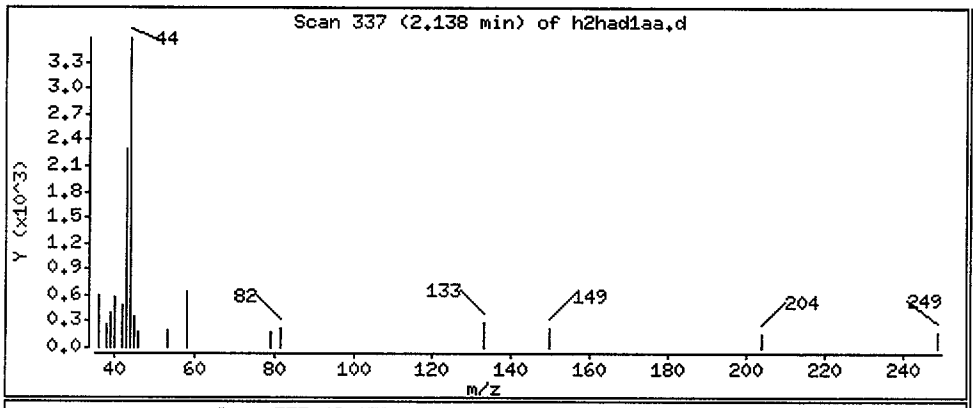
Operator: 063605

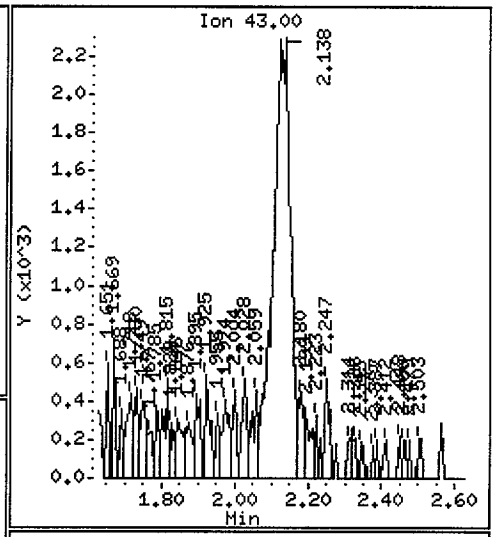
Column phase: J+W 624

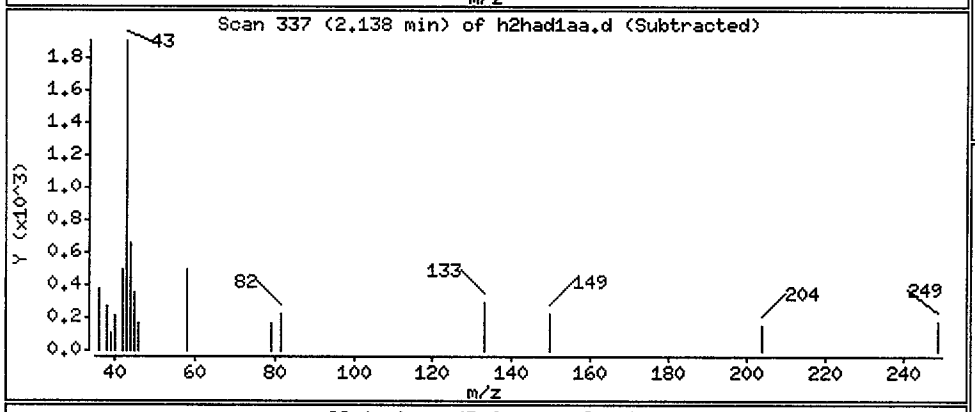
Column diameter: 0.18

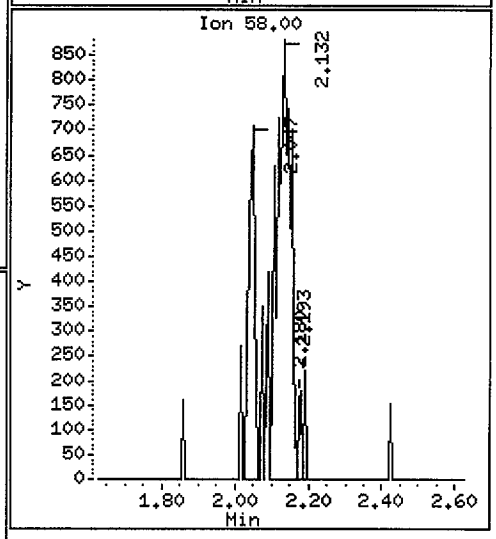
22 Acetone

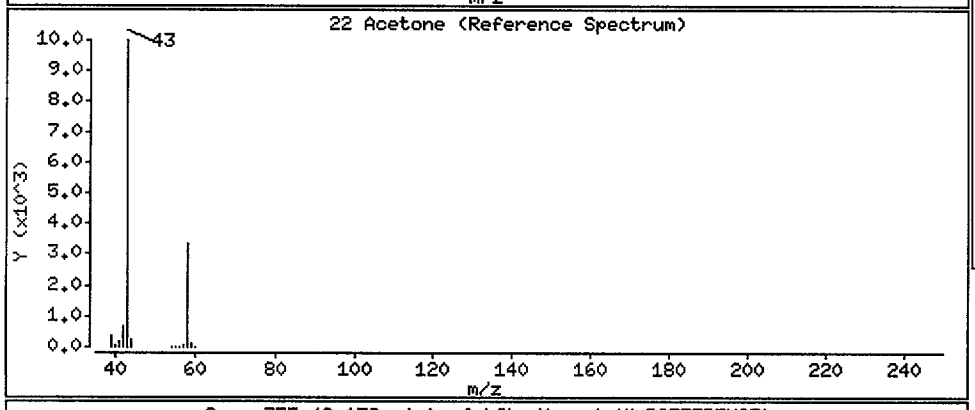
Concentration: 4.6612 ug/L

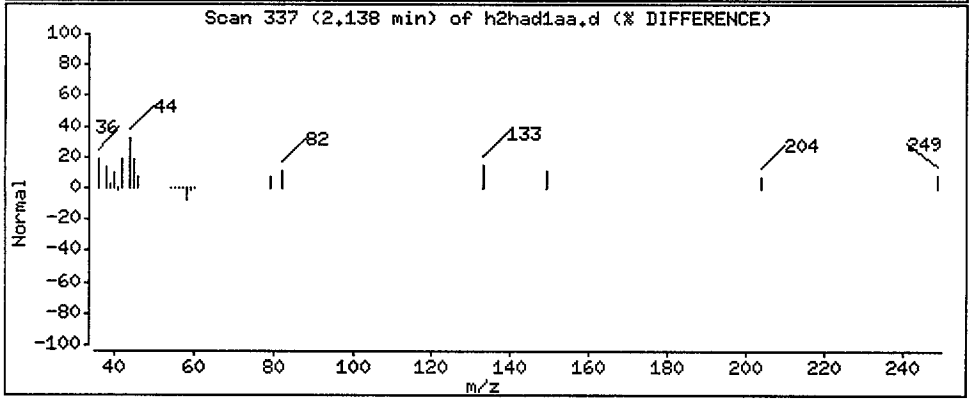












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

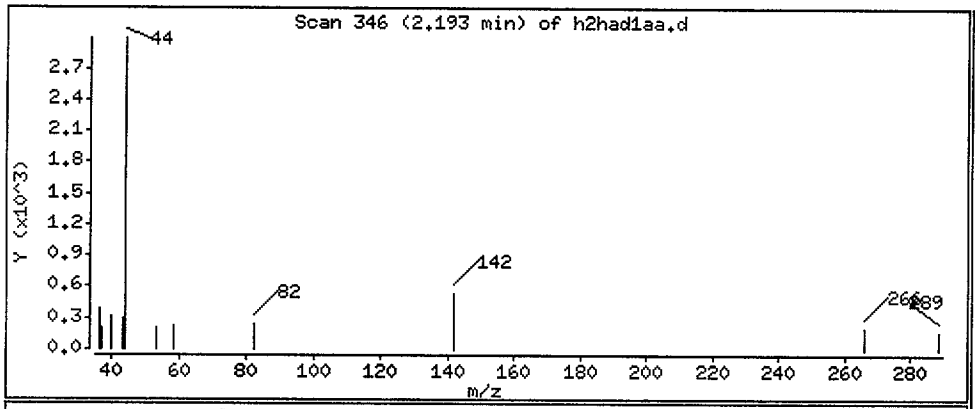
Operator: 063605

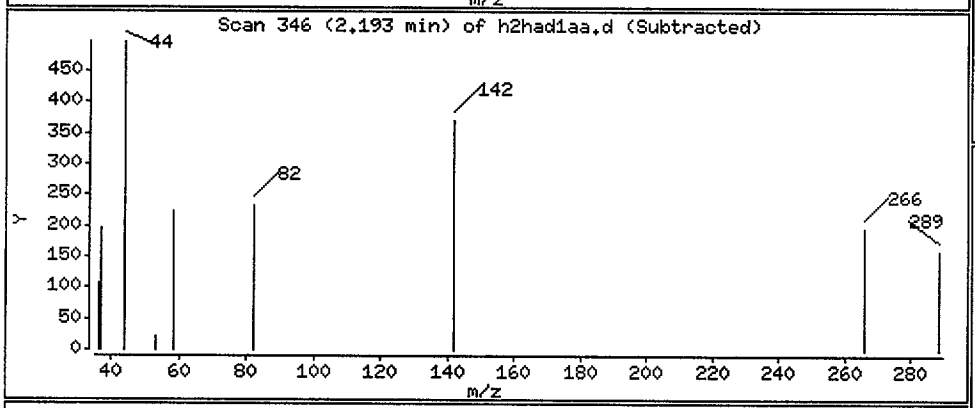
Column phase: J+W 624

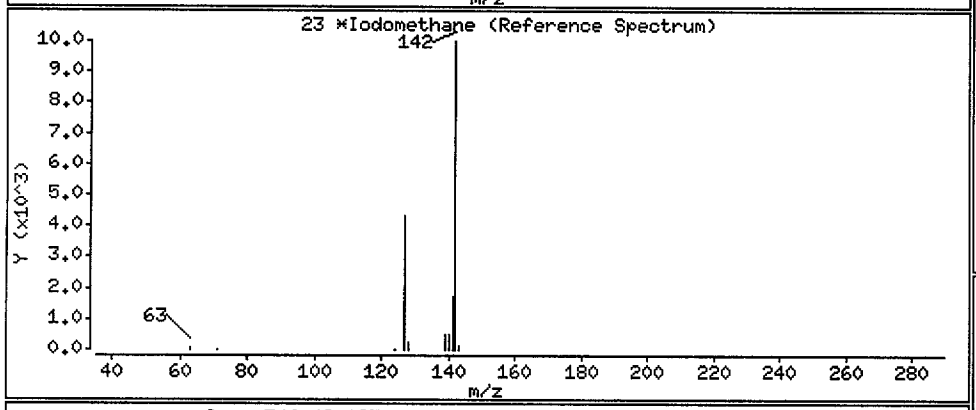
Column diameter: 0.18

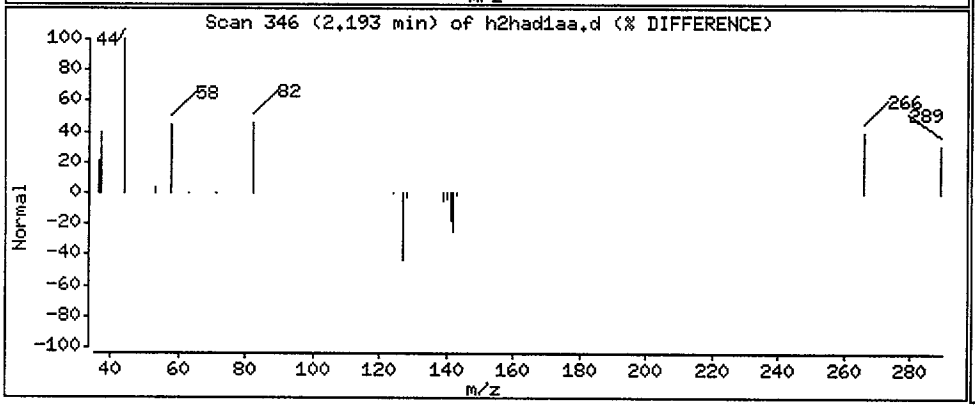
23 *Iodomethane

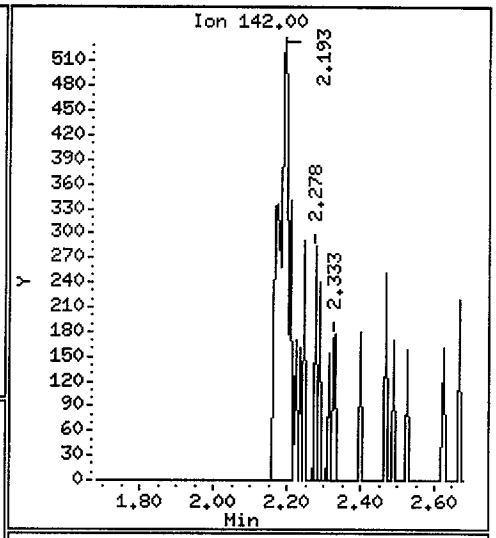
Concentration: 0.56860 ug/L

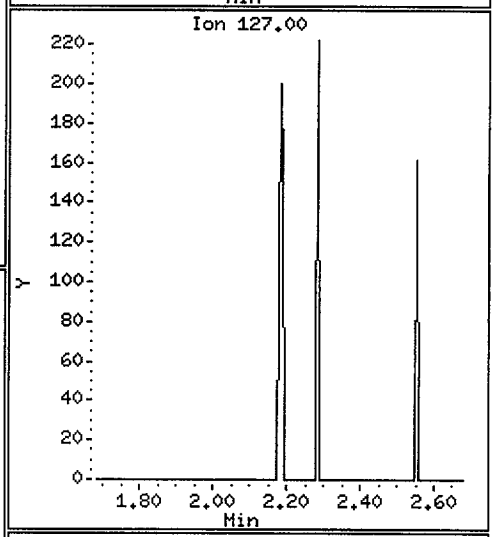


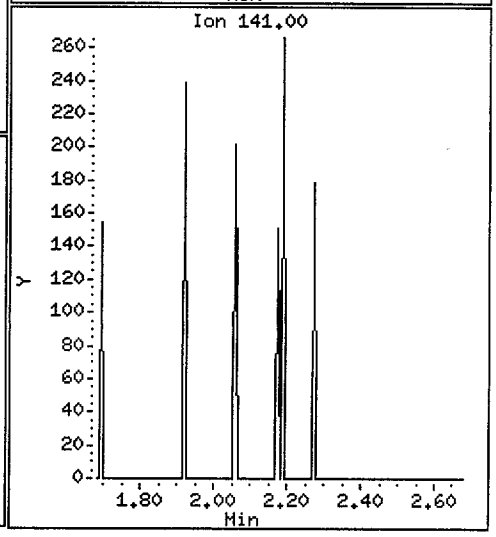












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

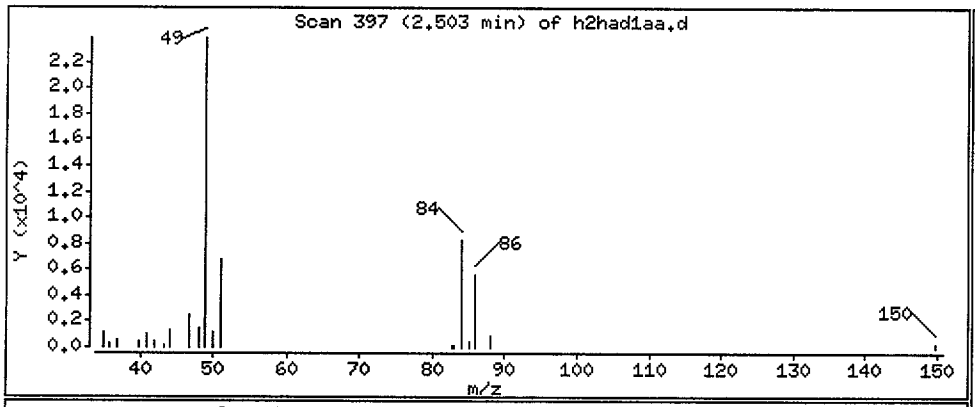
Operator: 063605

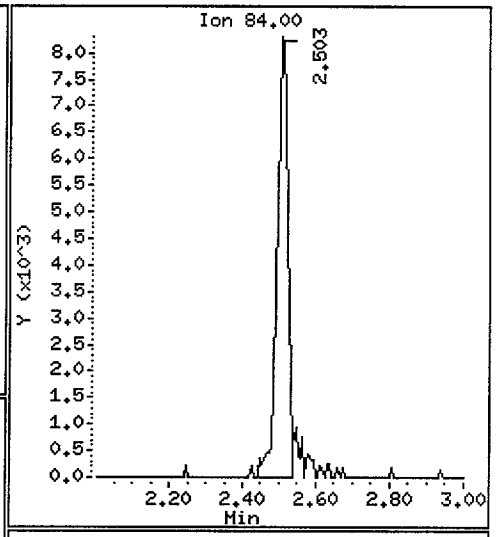
Column phase: J+W 624

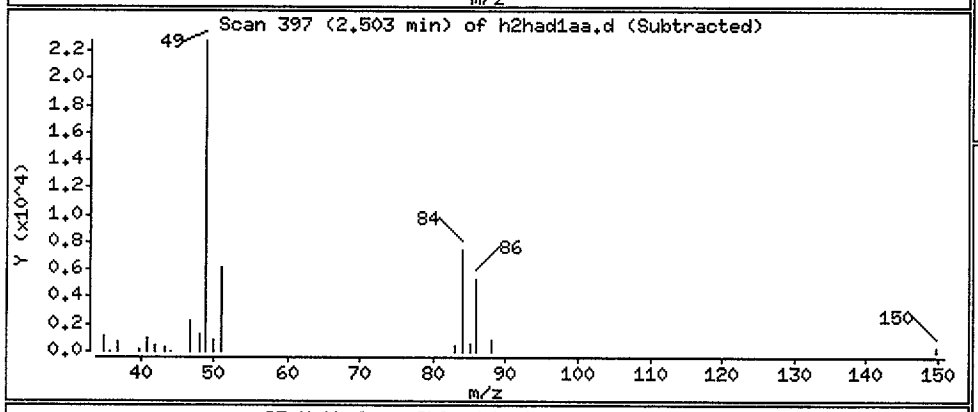
Column diameter: 0.18

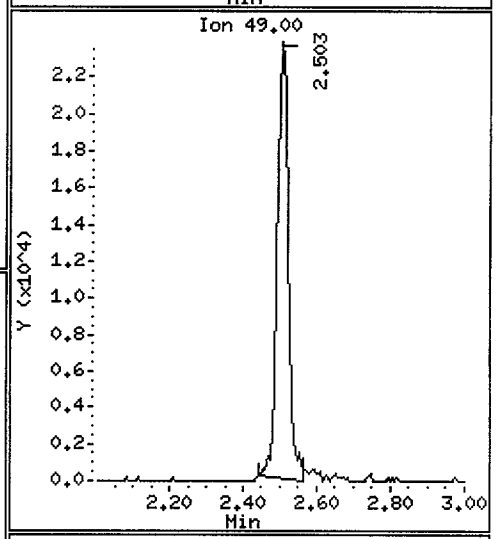
27 Methylene Chloride

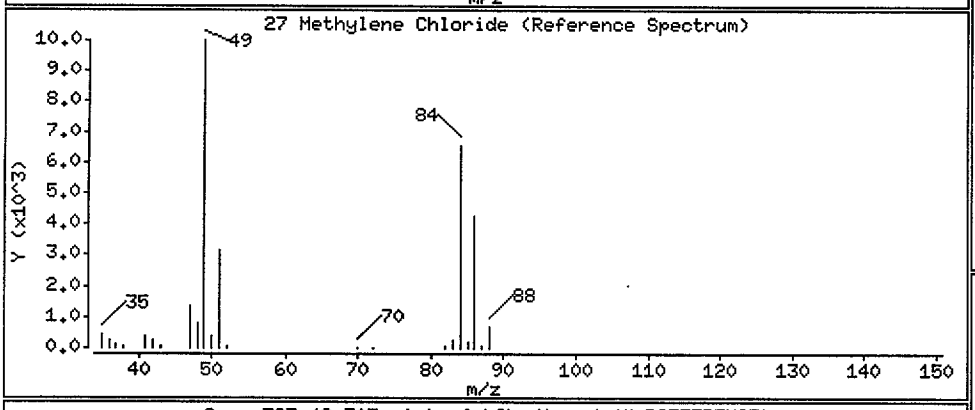
Concentration: 1.0892 ug/L

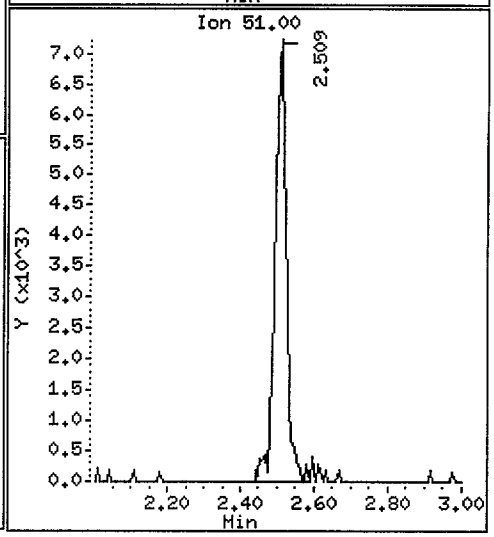


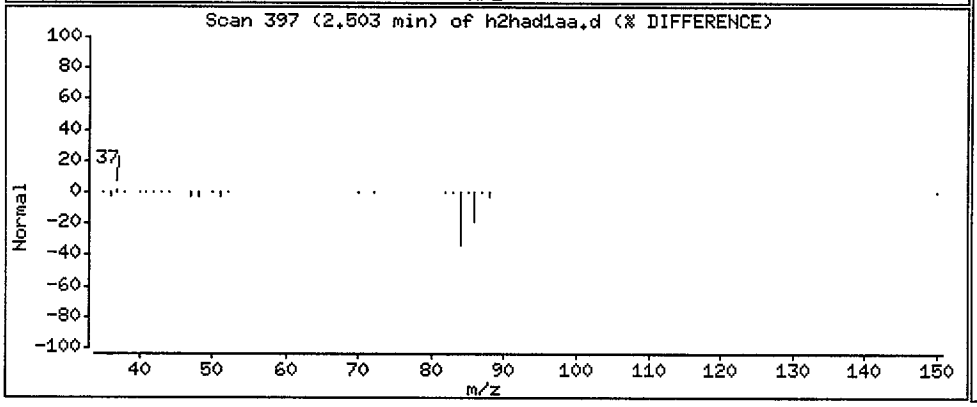












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

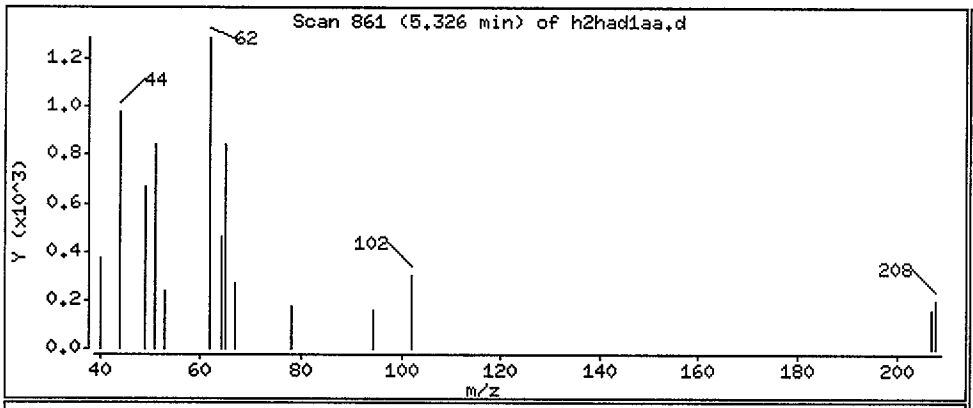
Operator: 063605

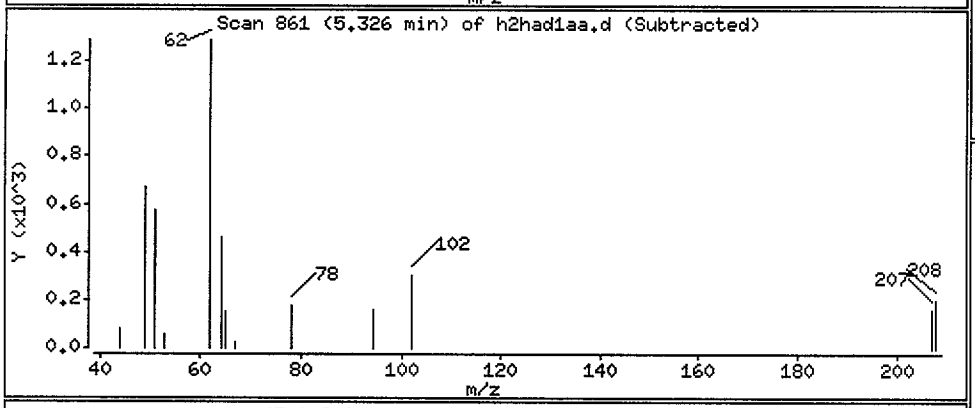
Column phase: J+W 624

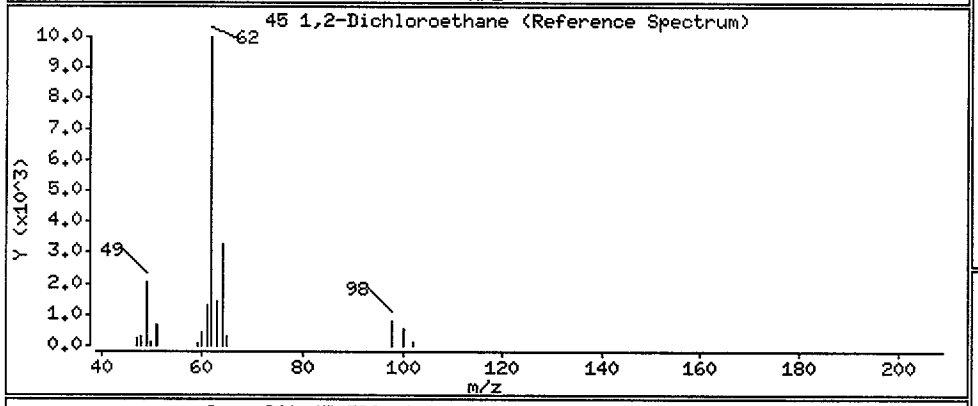
Column diameter: 0.18

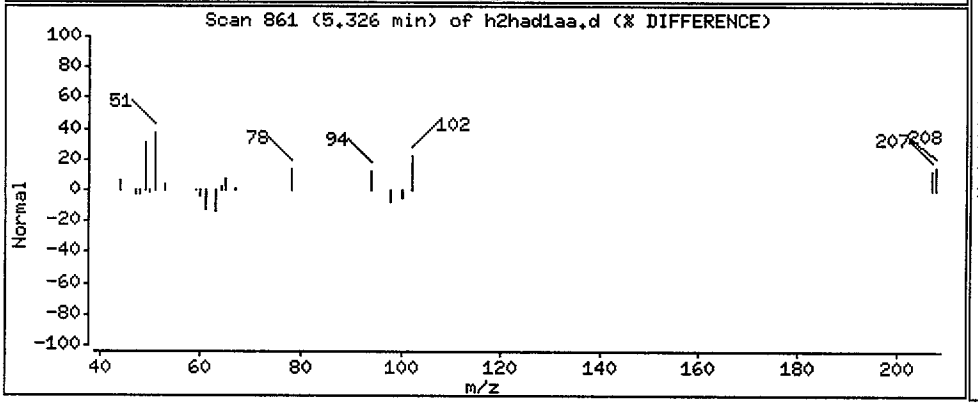
45 1,2-Dichloroethane

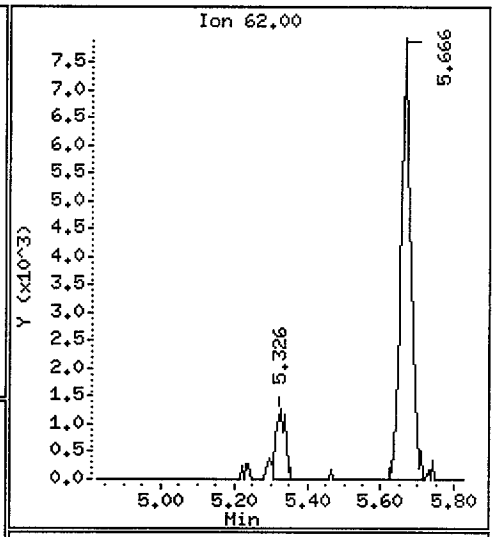
Concentration: 0.11525 ug/L

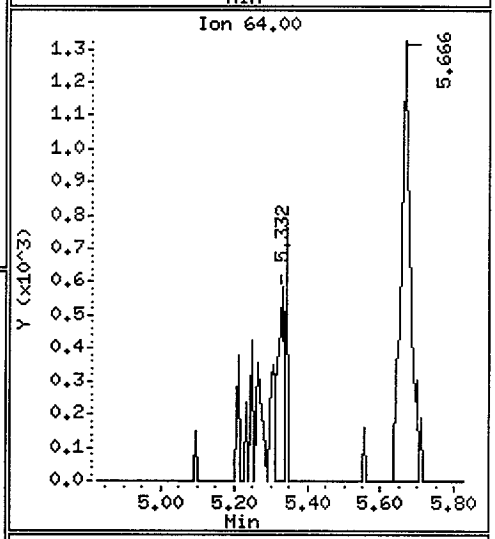


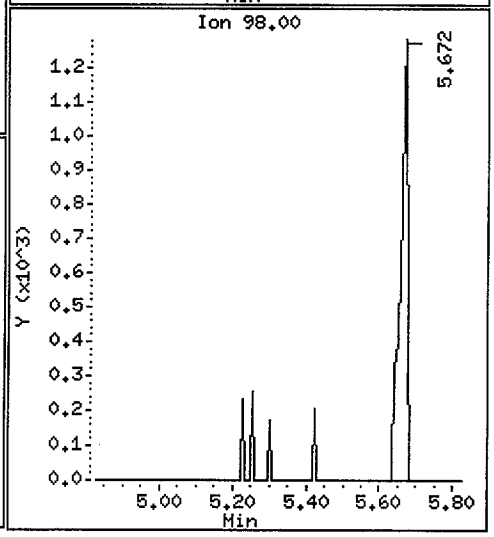












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

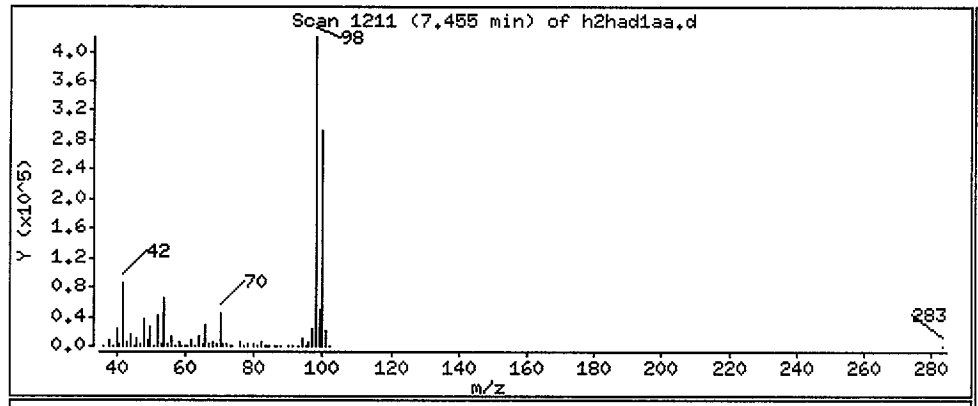
Client ID: G-3014-R2-VOST COND | Instrument: mz.i

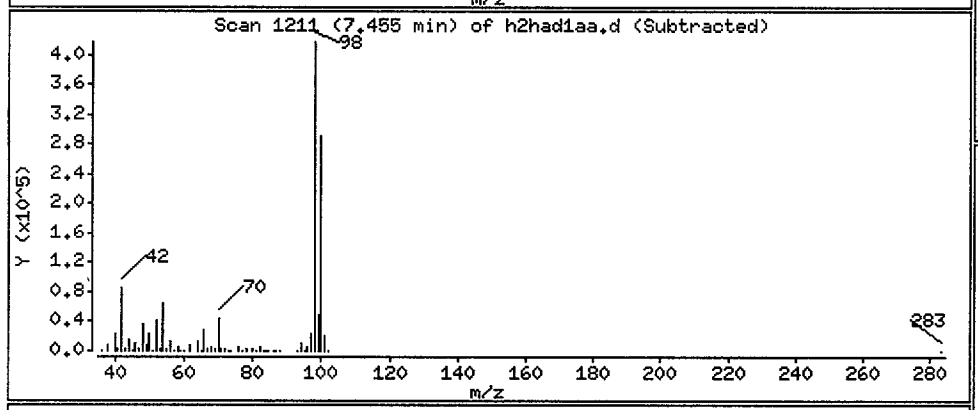
Sample Info: H2HAD1AA,1,0,,

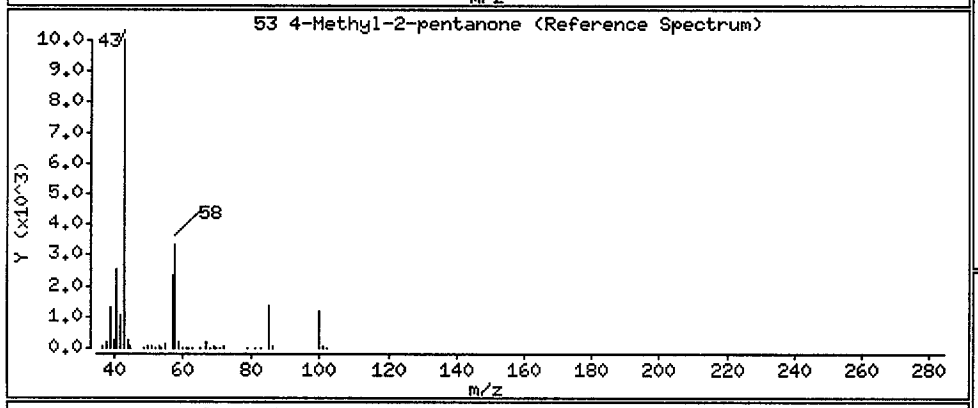
Purge Volume: 25.0 | Operator: 063605

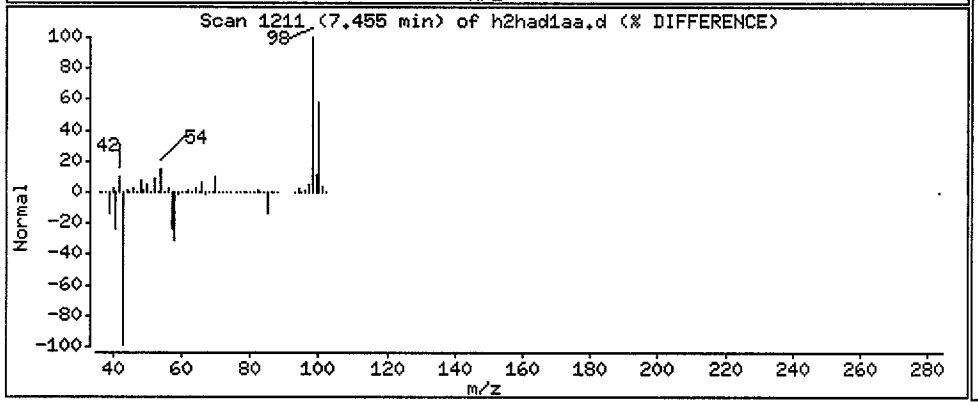
Column phase: J+W 624 | Column diameter: 0.18

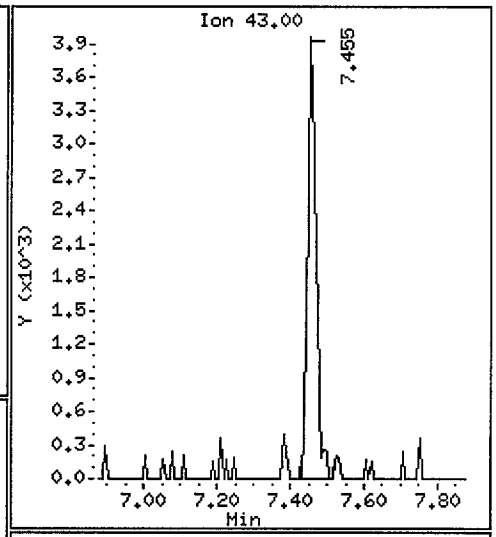
53 4-Methyl-2-pentanone | Concentration: 0.71962 ug/L

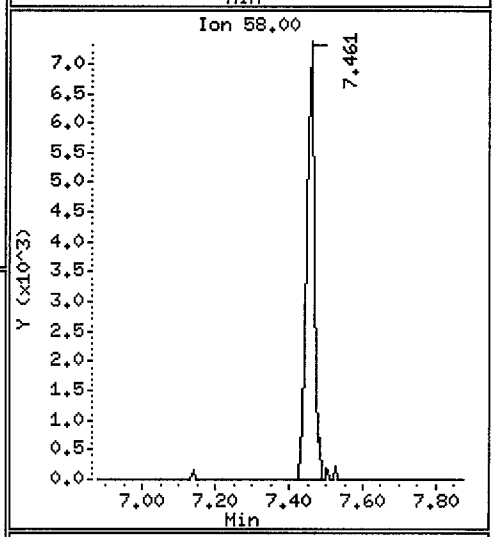


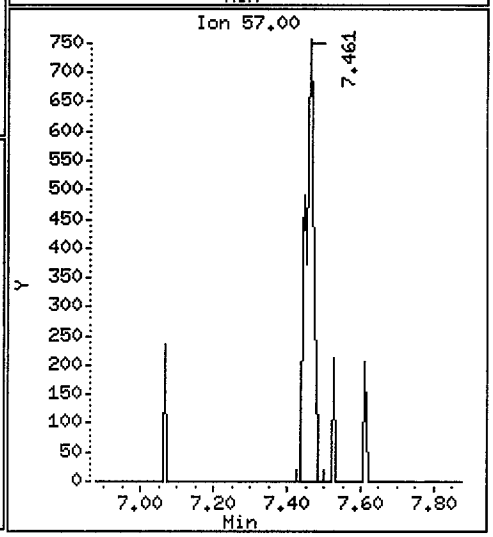












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

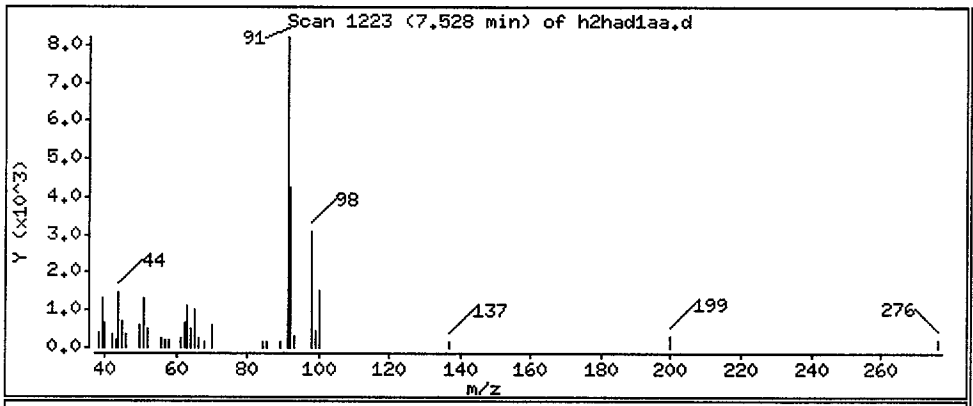
Operator: 063605

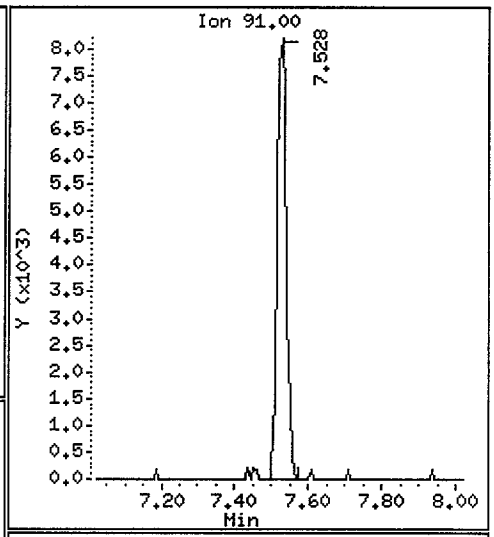
Column phase: J+W 624

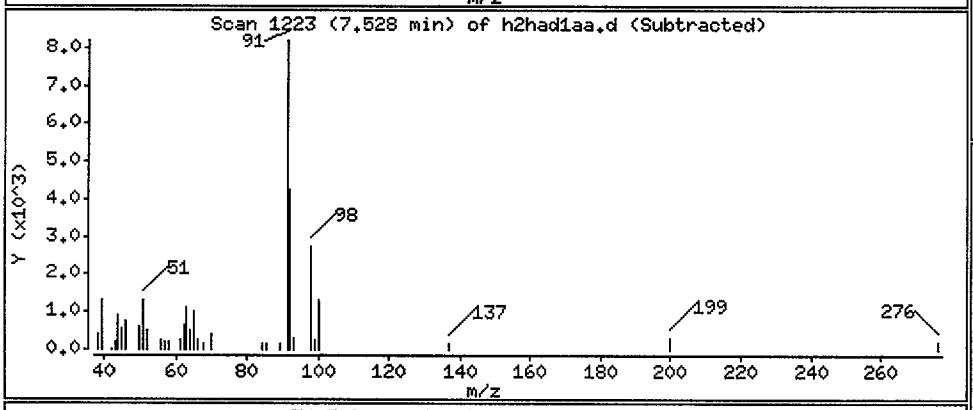
Column diameter: 0.18

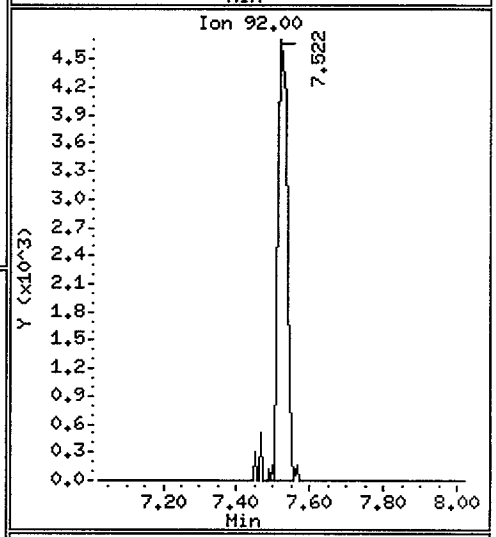
54 Toluene (ccc)

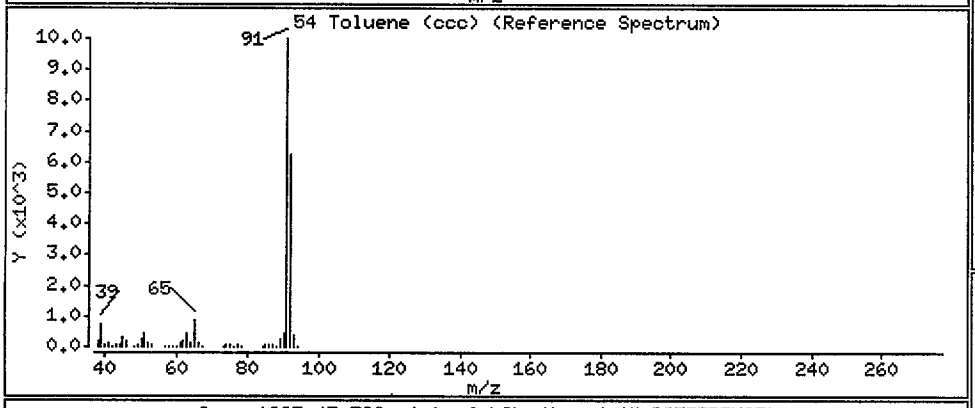
Concentration: 0.14523 ug/L

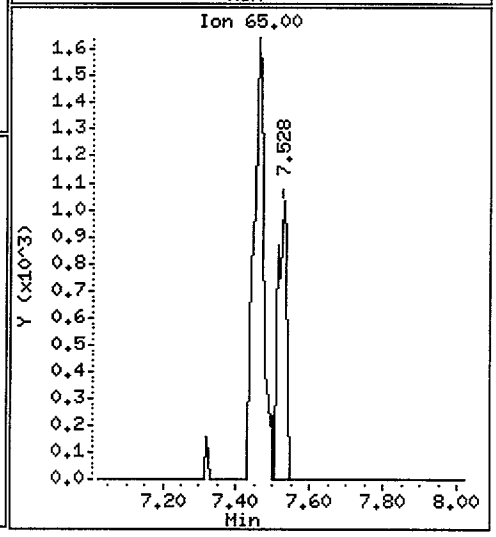


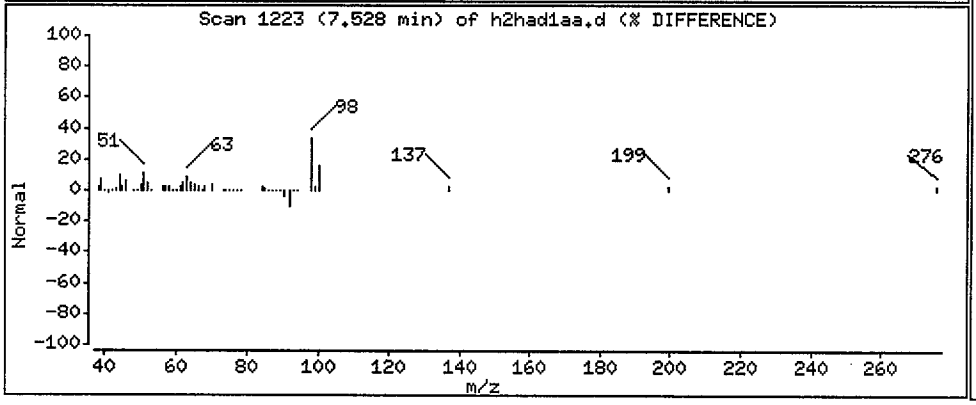












Data File: /chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

Purge Volume: 25.0

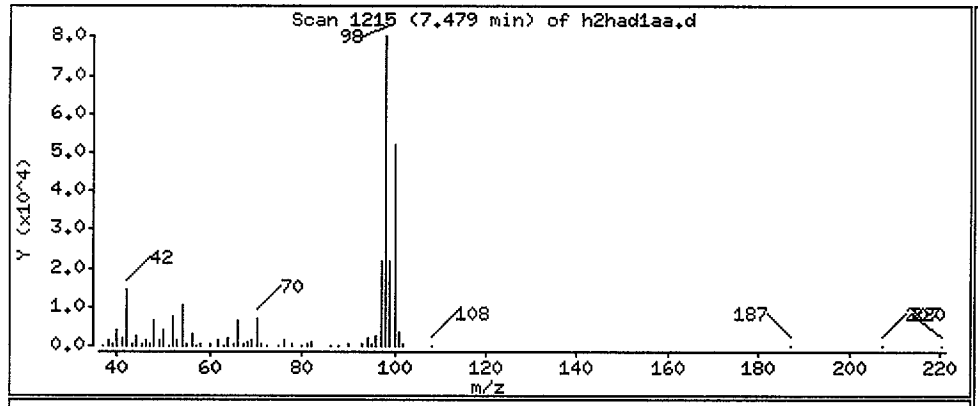
Operator: 063605

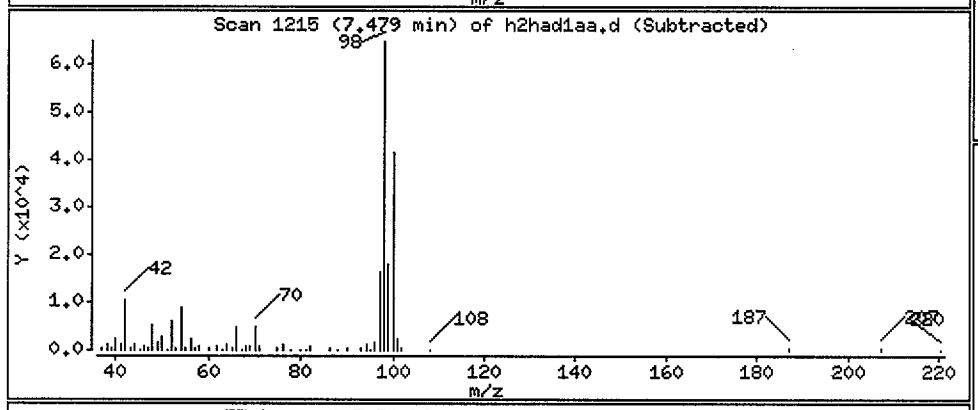
Column phase: J+W 624

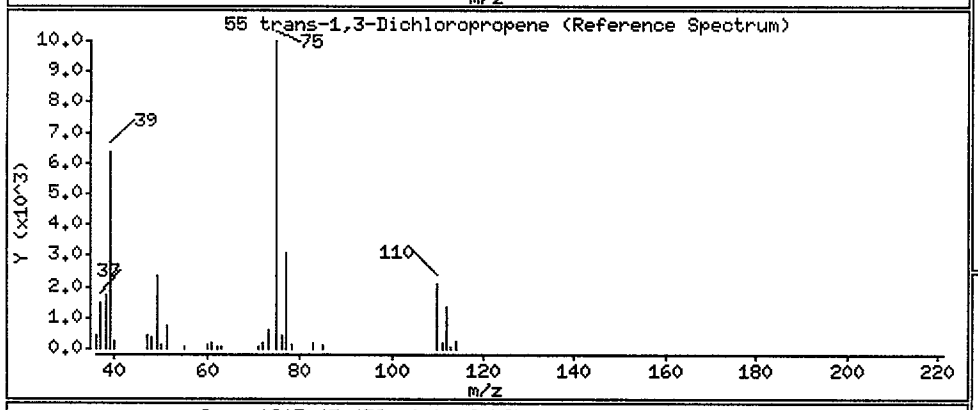
Column diameter: 0.18

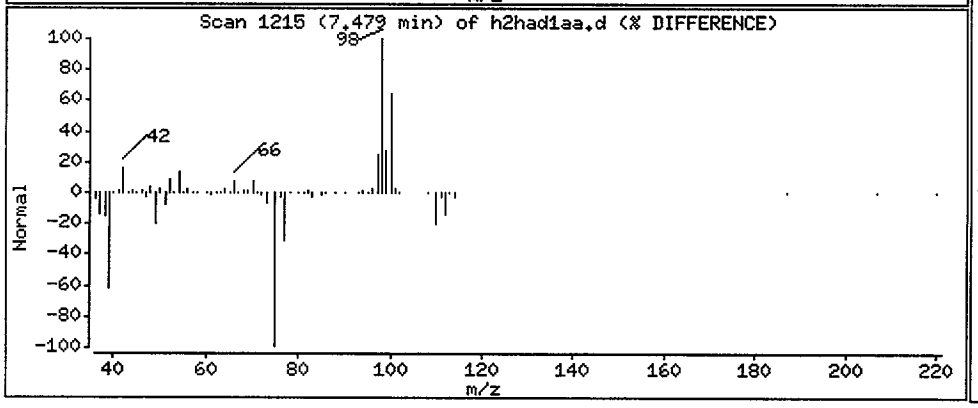
55 trans-1,3-Dichloropropene

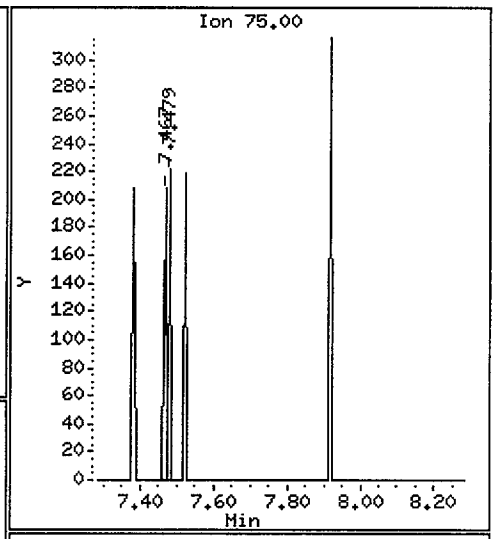
Concentration: 0.63065 ug/L

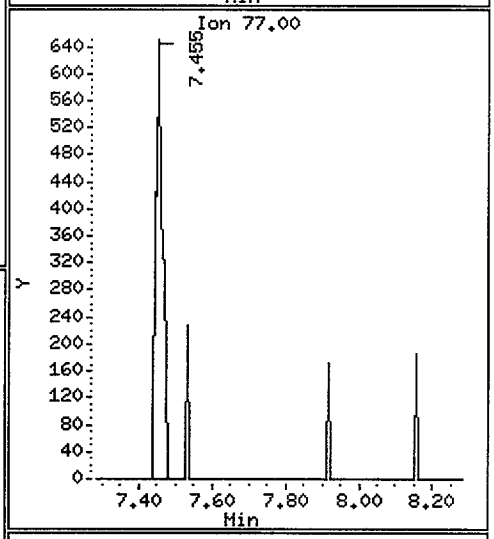


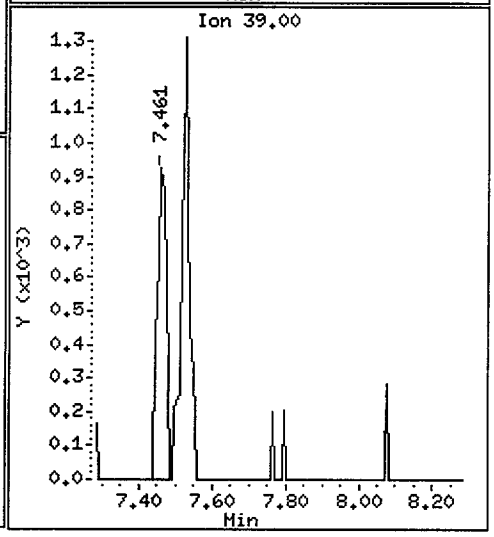












Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1aa.d
Report Date: 07-Apr-2006 14:34

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2had1aa.d
Lab Smp Id: H2HAD1AA Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 18:59
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.666	1005229	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide Air				CAS #: 124-38-9			
0.909	3624321	36.0546801	36.055	5	NIST05.1	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1aa.d

Date : 05-APR-2006 18:59

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AA,1,0,,

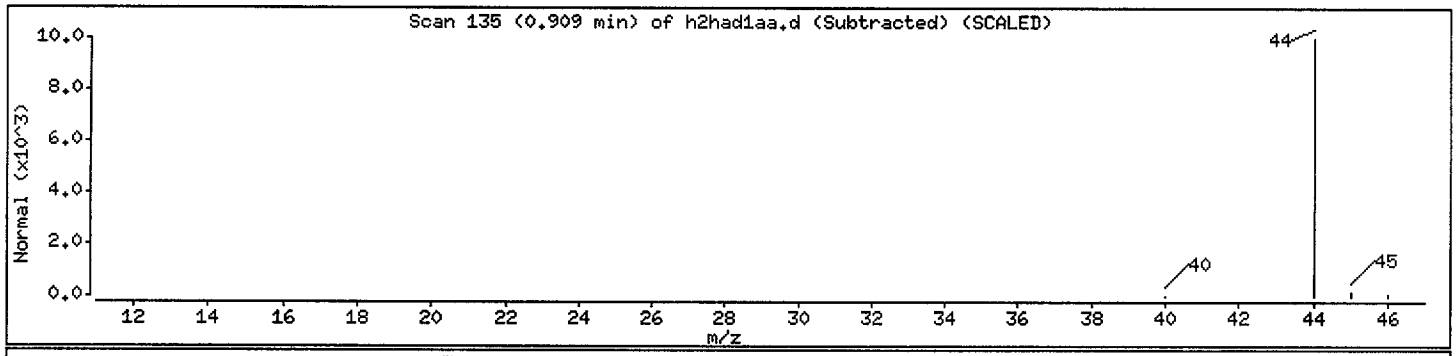
Purge Volume: 25.0

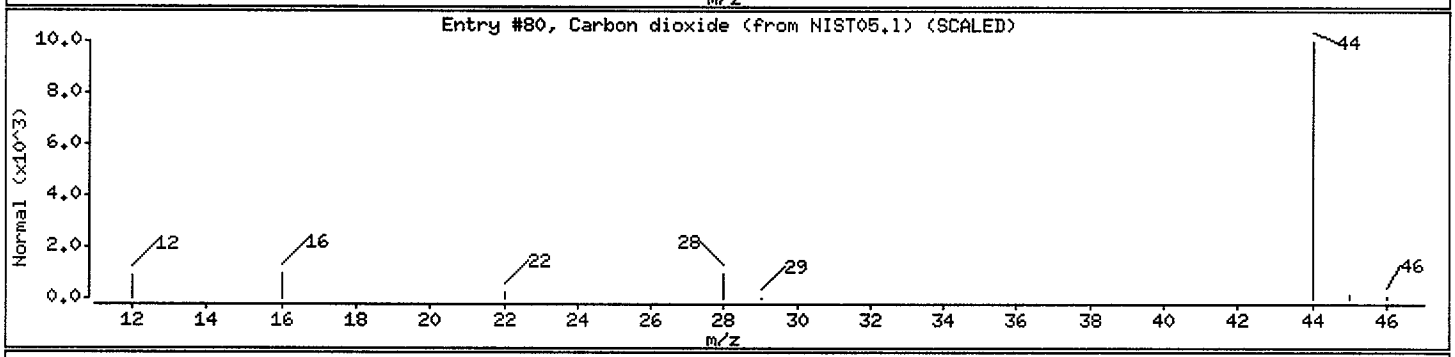
Operator: 063605

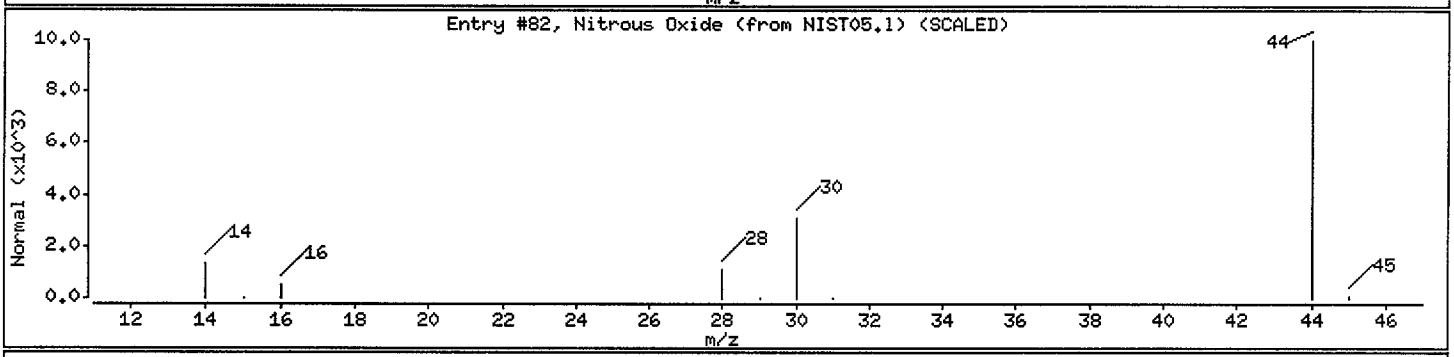
Column phase: J+W 624

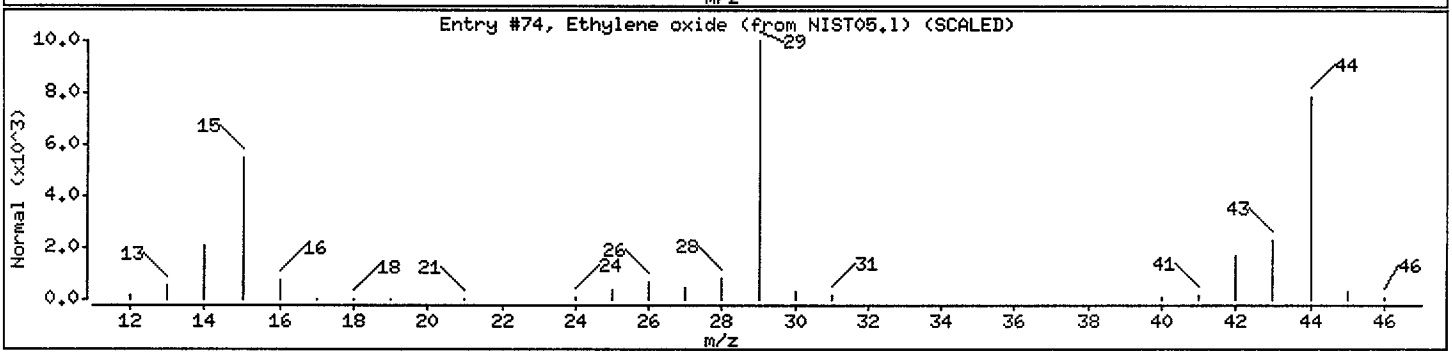
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.55 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	115	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 05-Apr-2006 20:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Lab Smp Id: H2HAD1AC Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 20:09
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

04206

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.667	5.667	(1.000)	907760	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.933	(1.000)	170735	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.489	11.488	(1.000)	212717	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.924)	144509	11.4888	11.489
$ 4 Dibromofluoromethane	113	4.821	4.821	(0.851)	161828	11.1256	11.126
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	758641	10.1128	10.113
$ 7 4-Bromofluorobenzene	95	10.120	10.126	(0.881)	199141	9.28284	9.2828
15 Bromomethane	94	1.408	1.414	(0.249)	848	~~0.92195~~	~~0.92194~~
22 Acetone	43	2.126	2.126	(0.375)	8183	4.84718	4.8472
23 *Iodomethane	142	2.187	2.181	(0.386)	549	0.54542	0.54542
45 1,2-Dichloroethane	62	5.661	5.326	(0.999)	16677	~~0.87981~~	~~0.87981~~
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	6508	~~0.82097~~	~~0.82097~~
55 trans-1,3-Dichloropropene	75	7.468	7.784	(0.836)	255	~~0.64172~~	~~0.64172~~

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 05-Apr-2006 20:27

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2had1ac.d
Lab Smp Id: H2HAD1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	907760	-15.85
2 Chlorobenzene-d5	188899	94450	377798	170735	-9.62
3 1,4 Dichlorobenze	220143	110072	440286	212717	-3.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.00
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 05-Apr-2006 20:27

STL Knoxville

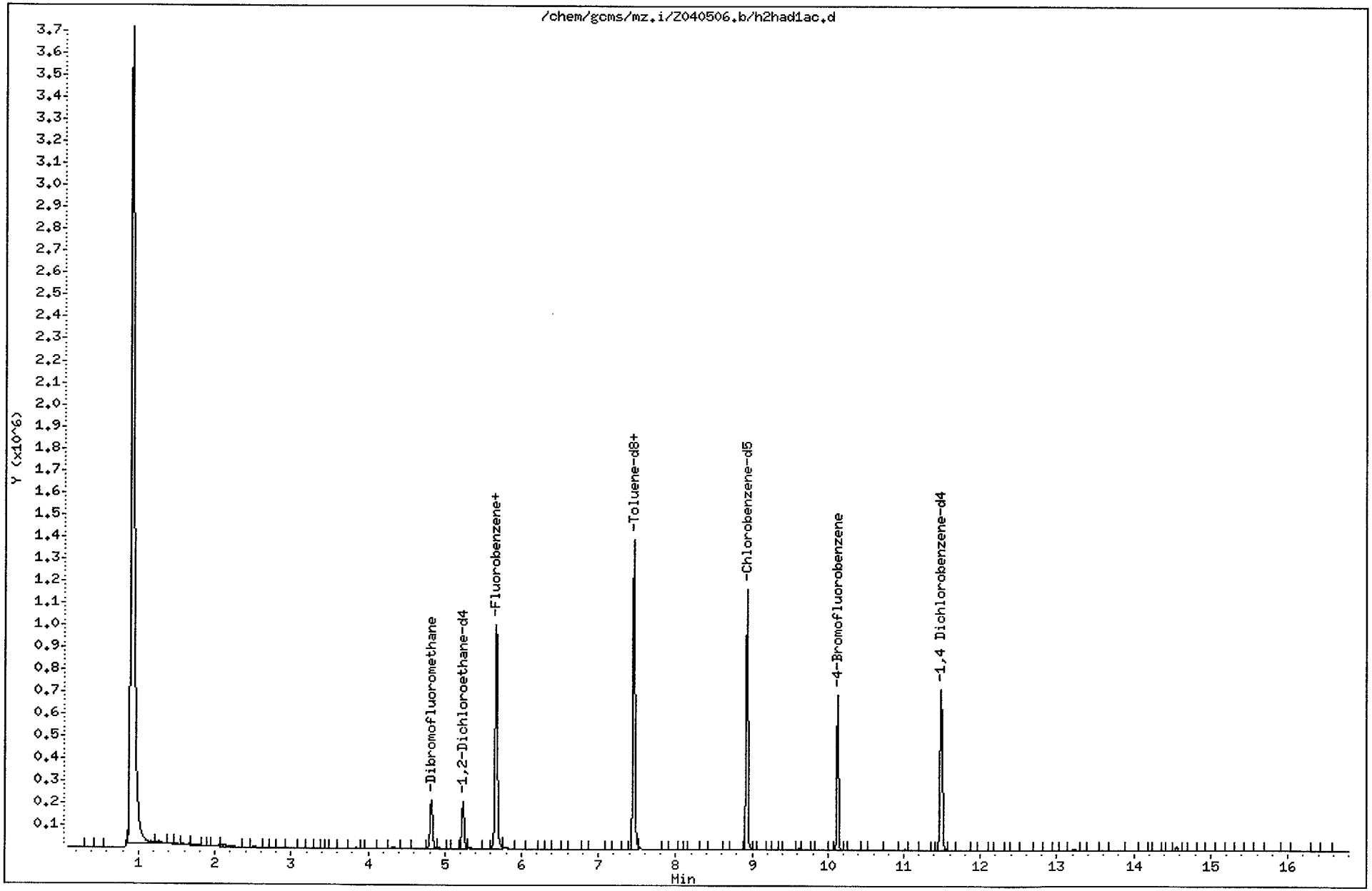
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HAD1AC
Client Smp ID: G-3014-R2-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE DUPLICATE{♥╚Çz·H @
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.489	114.89	71-127
$ 4 Dibromofluorometha	10.000	11.126	111.26	79-120
$ 6 Toluene-d8	10.000	10.113	101.13	80-120
$ 7 4-Bromofluorobenze	10.000	9.2828	92.83	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d
Date : 05-APR-2006 20:09
Client ID: G-3014-R2-VOST COND
Sample Info: H2HAD1AC,1,0,,
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

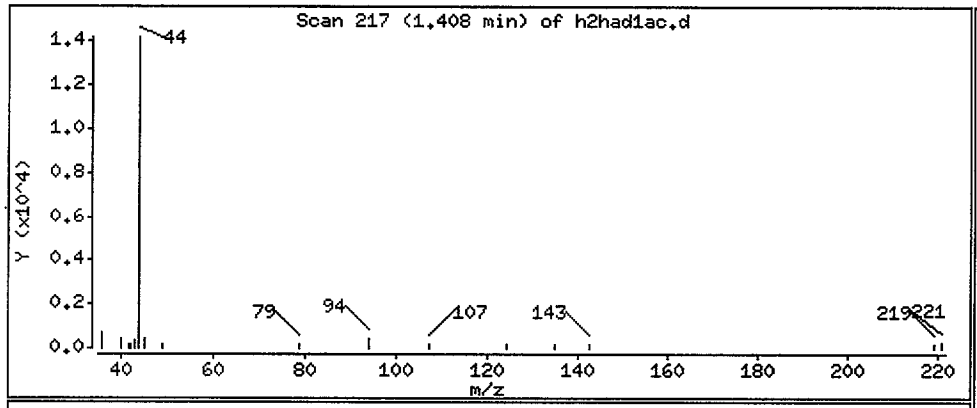
Operator: 063605

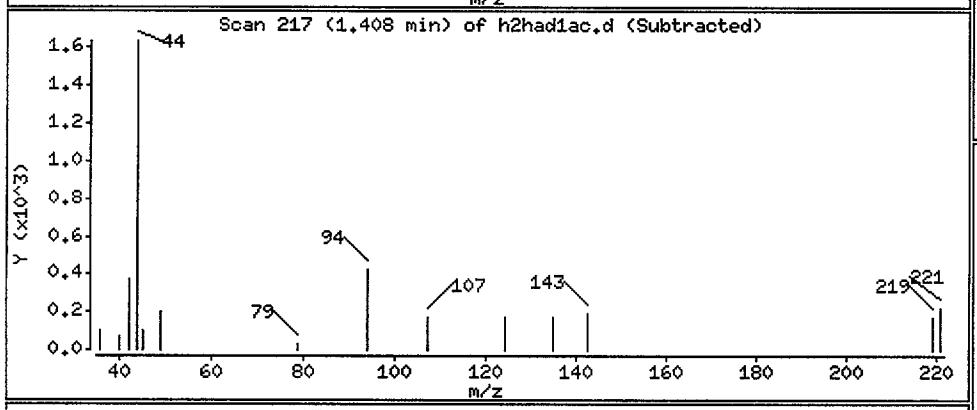
Column phase: J+W 624

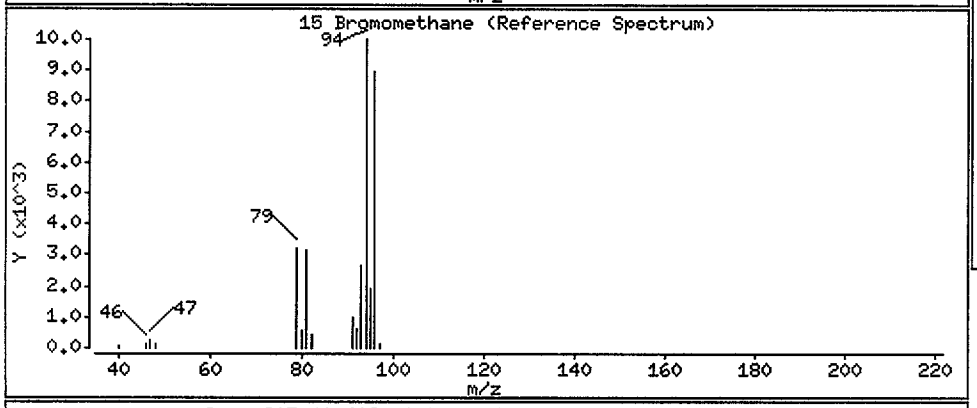
Column diameter: 0.18

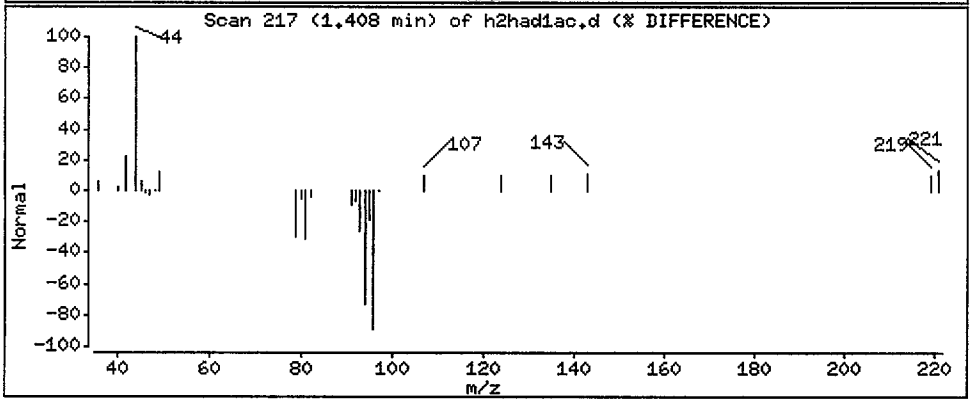
15 Bromomethane

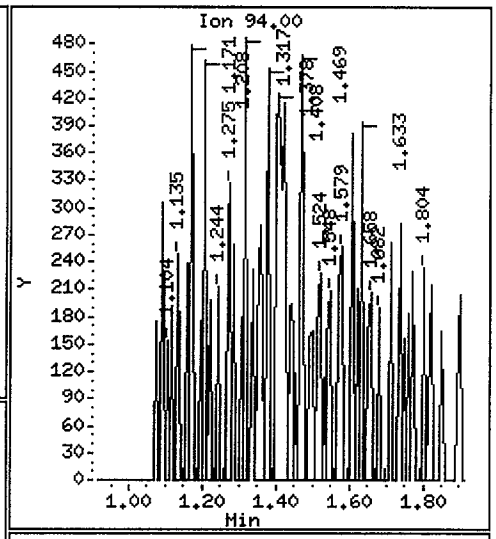
Concentration: 0.92194 ug/L

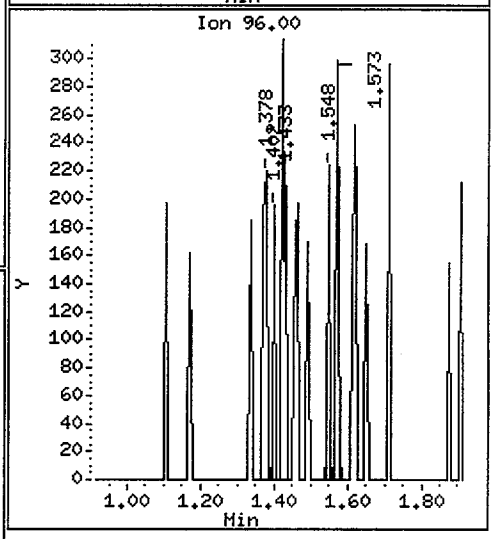












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

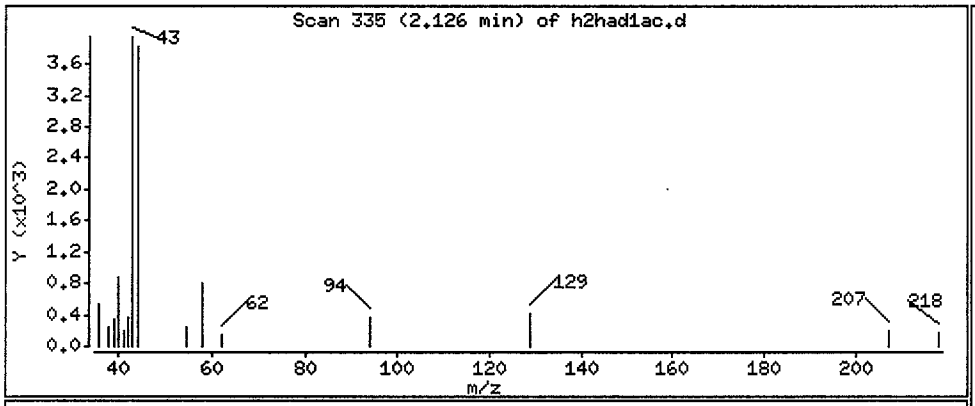
Client ID: G-3014-R2-VOST COND | Instrument: mz.i

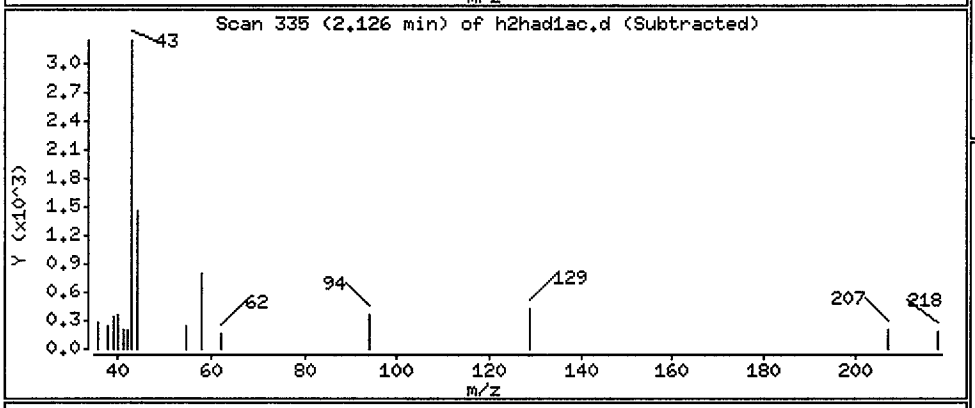
Sample Info: H2HAD1AC,1,0,,

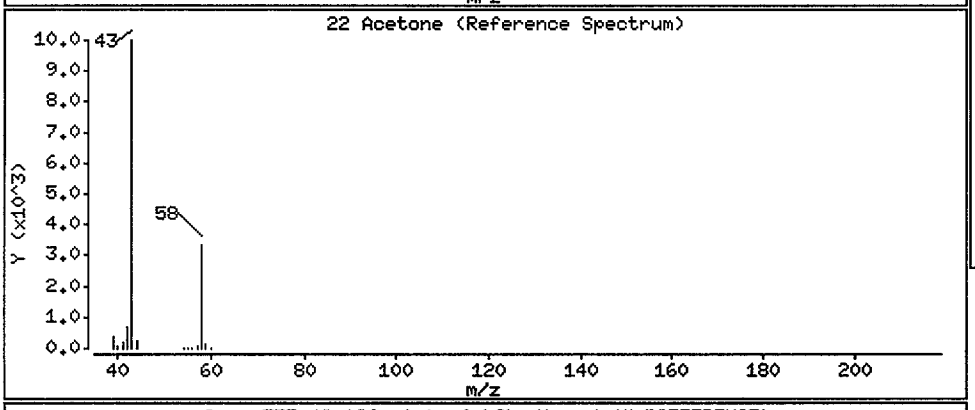
Purge Volume: 25.0 | Operator: 063605

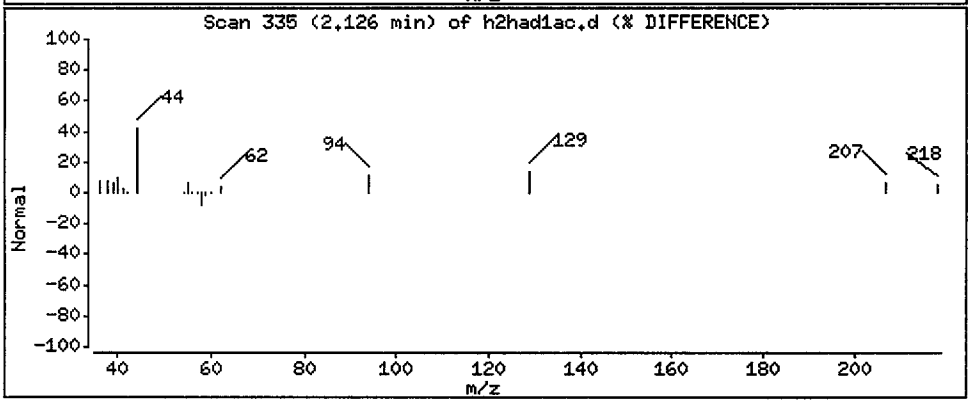
Column phase: J+W 624 | Column diameter: 0.18

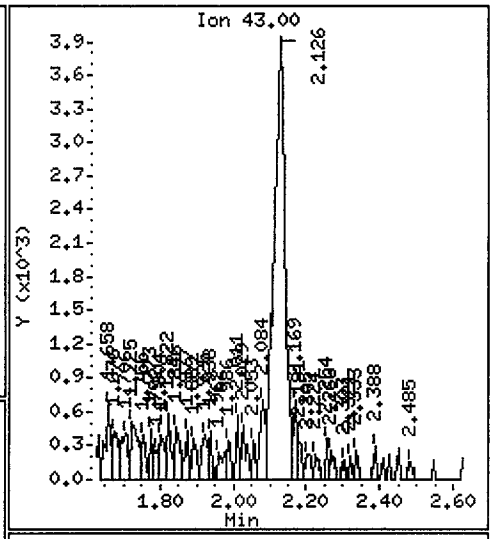
22 Acetone | Concentration: 4.8472 ug/L

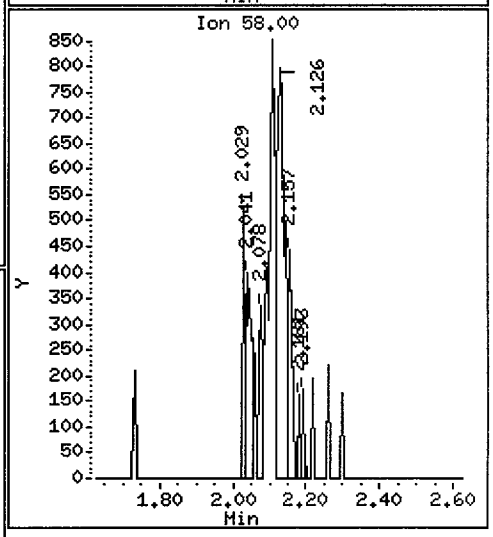












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

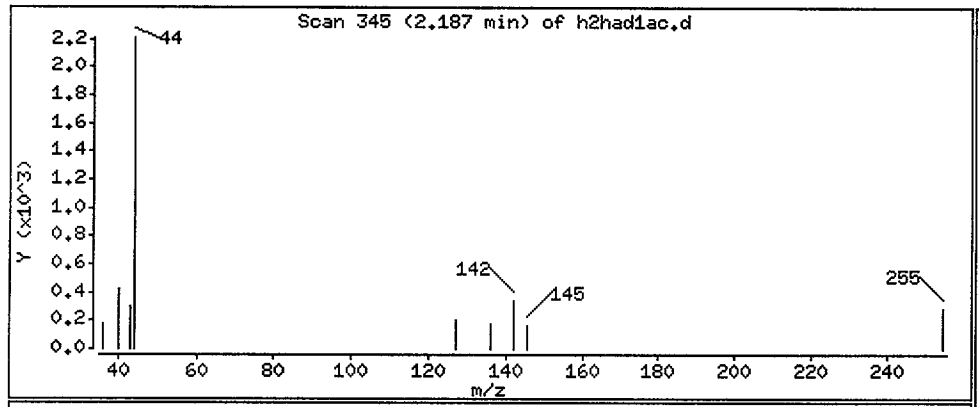
Operator: 063605

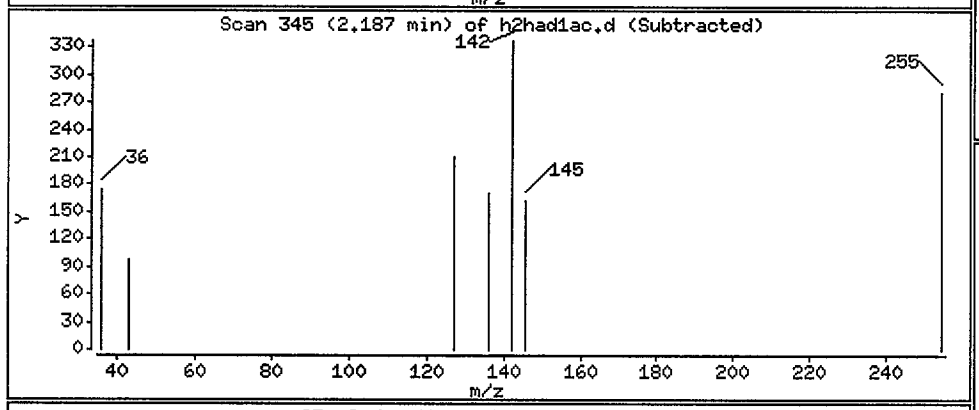
Column phase: J+W 624

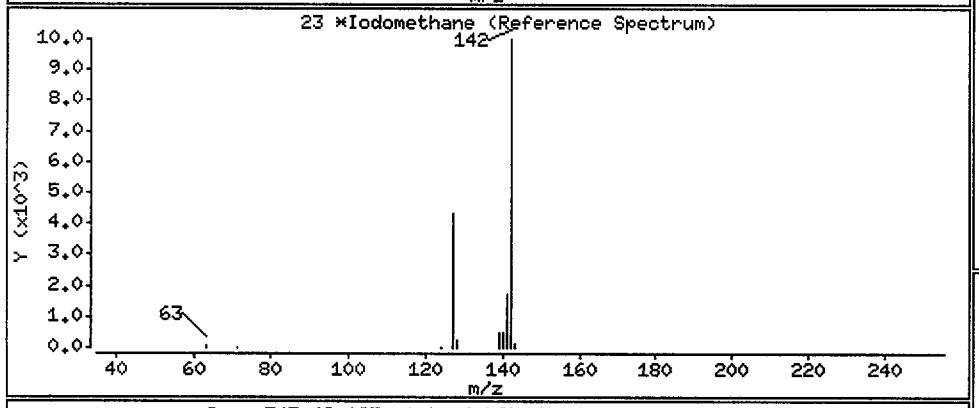
Column diameter: 0.18

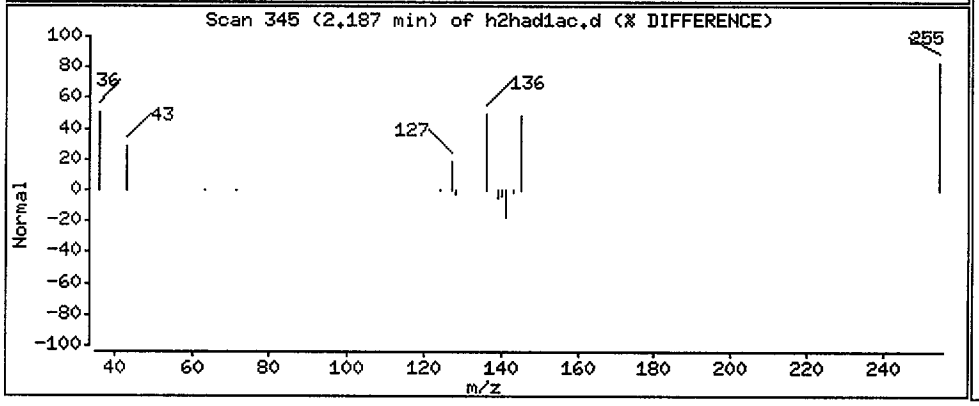
23 *Iodomethane

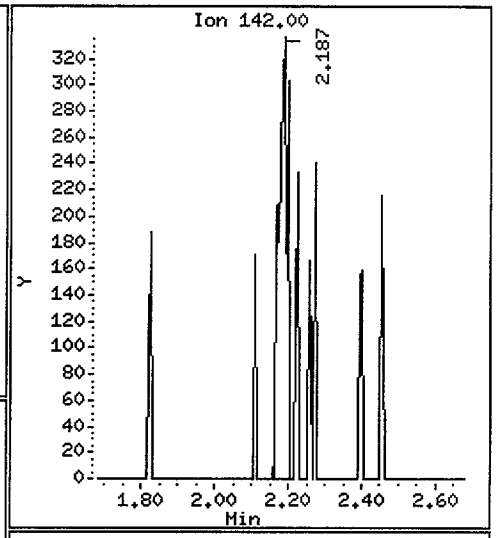
Concentration: 0.54542 ug/L

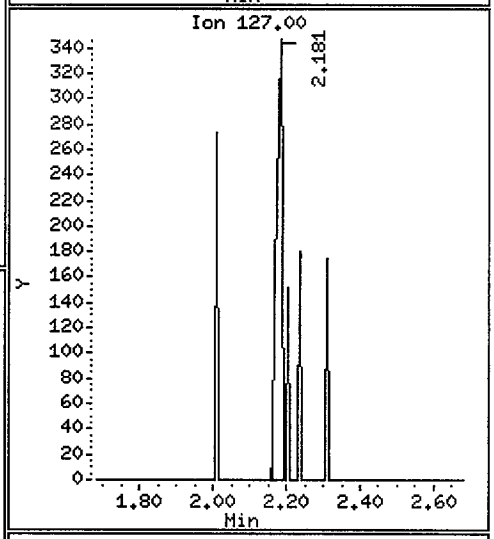


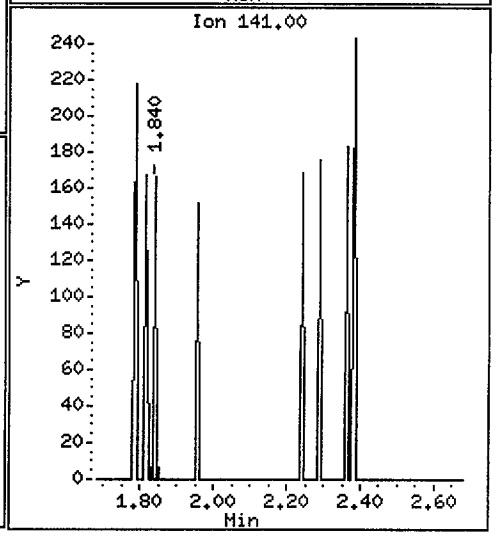












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

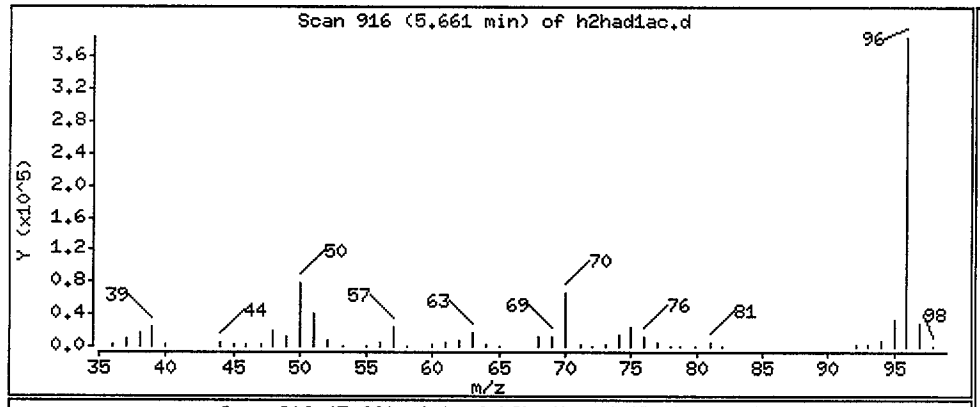
Operator: 063605

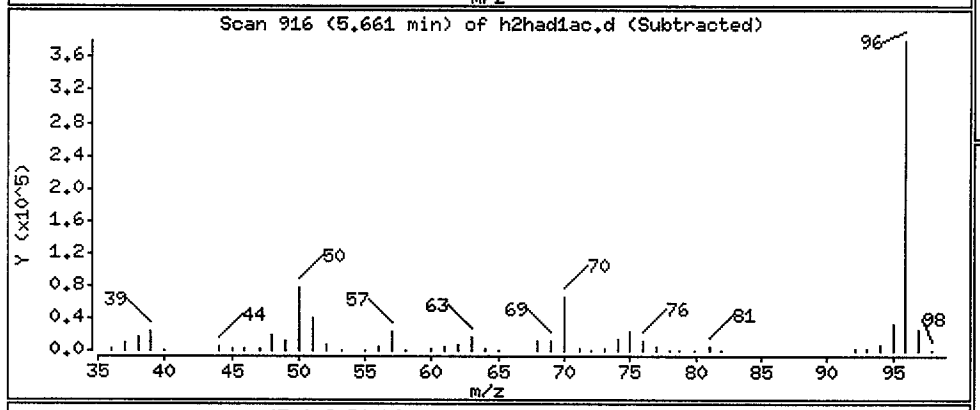
Column phase: J+W 624

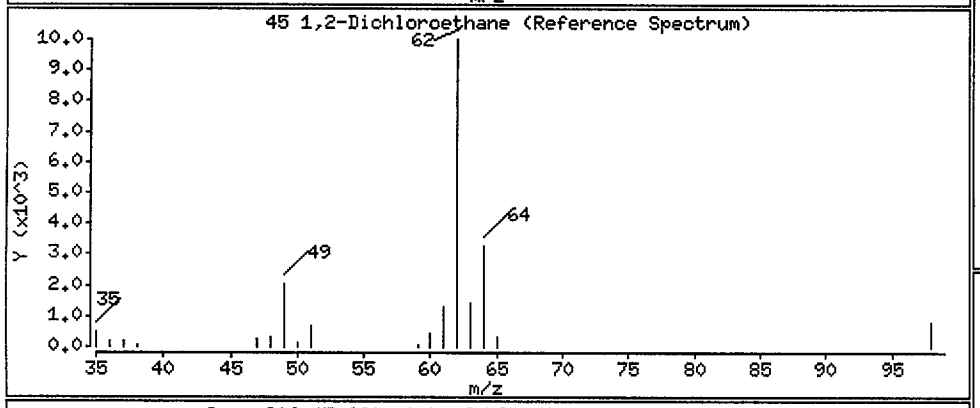
Column diameter: 0.18

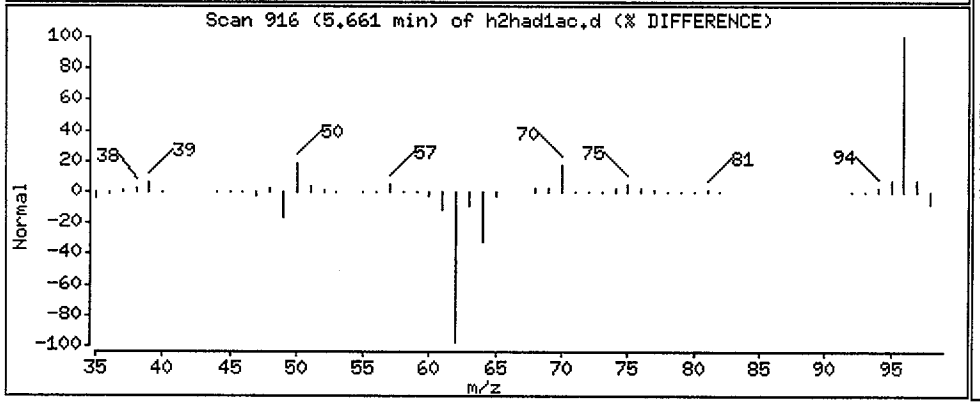
45 1,2-Dichloroethane

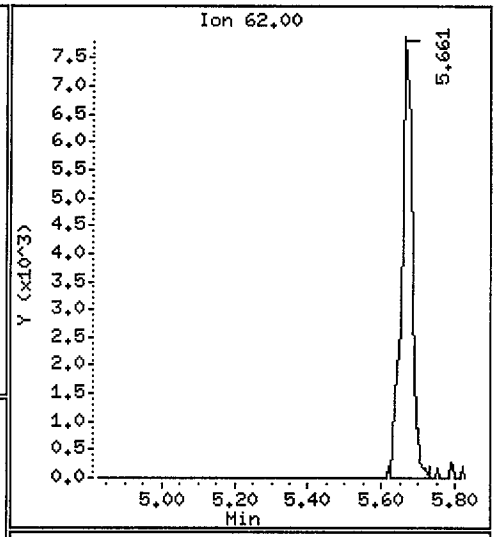
Concentration: 0.87981 ug/L

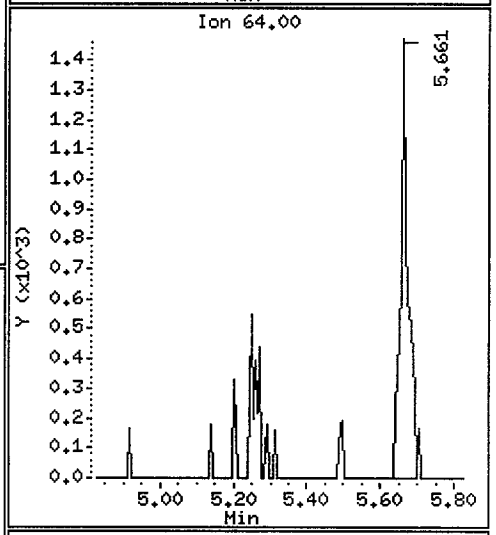


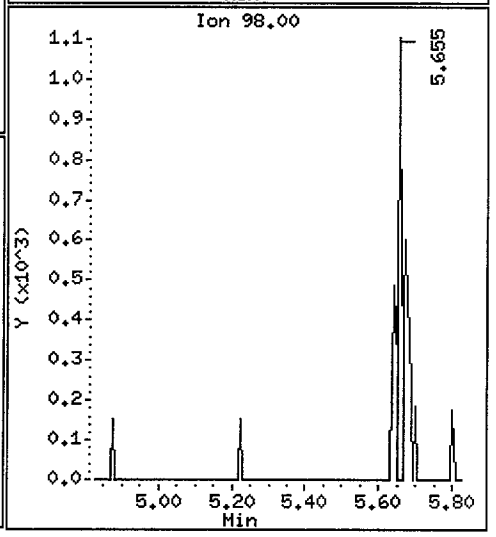












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

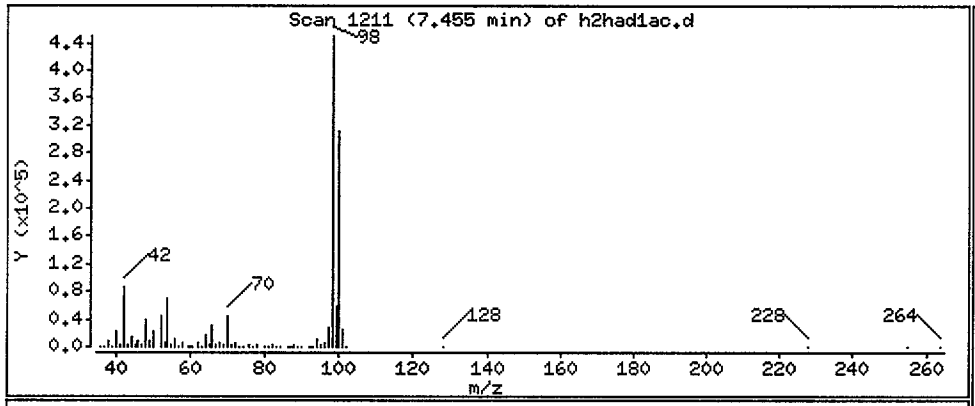
Operator: 063605

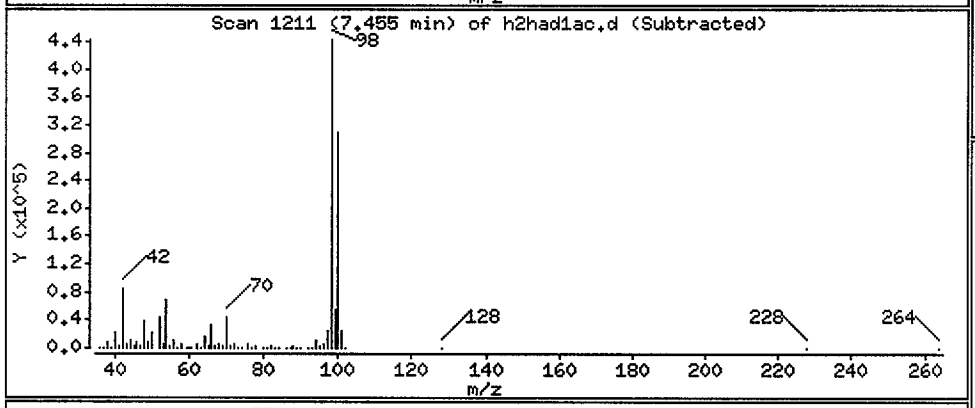
Column phase: J+W 624

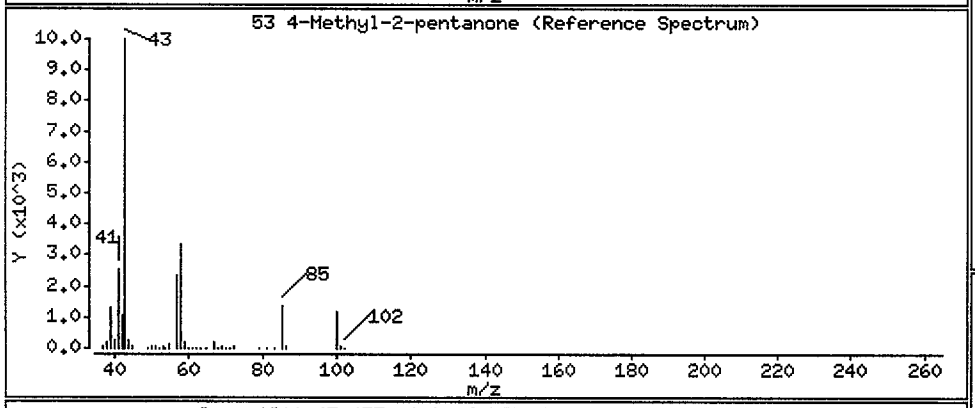
Column diameter: 0.18

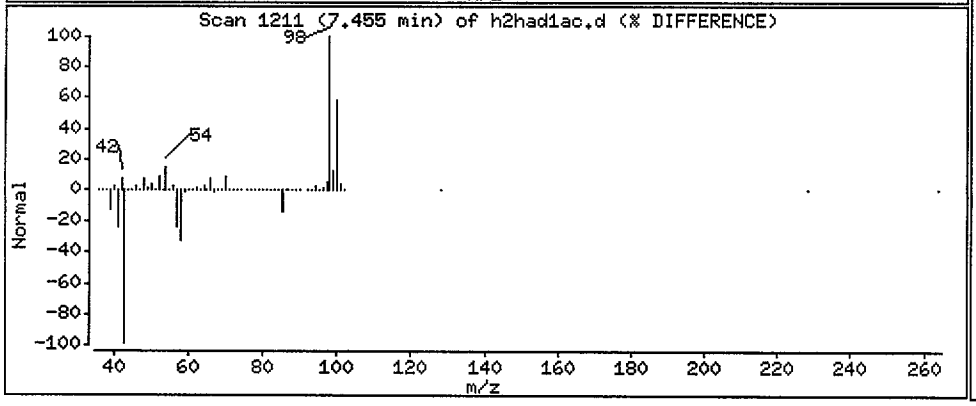
53 4-Methyl-2-pentanone

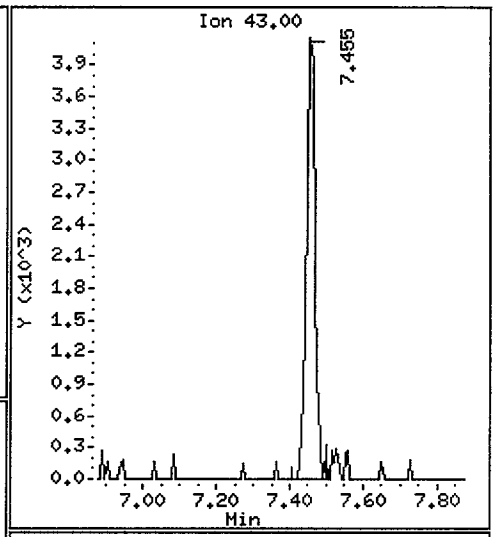
Concentration: 0.82097 ug/L

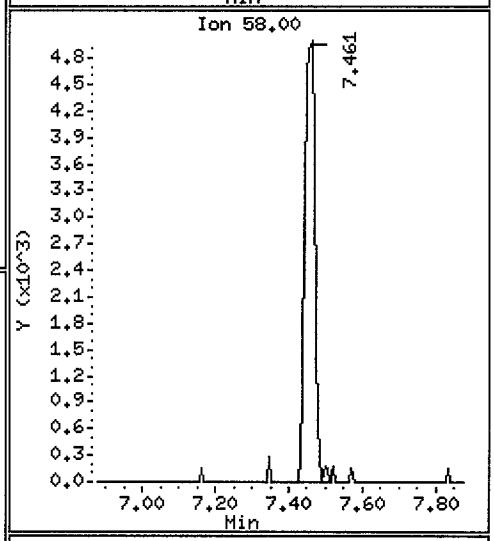


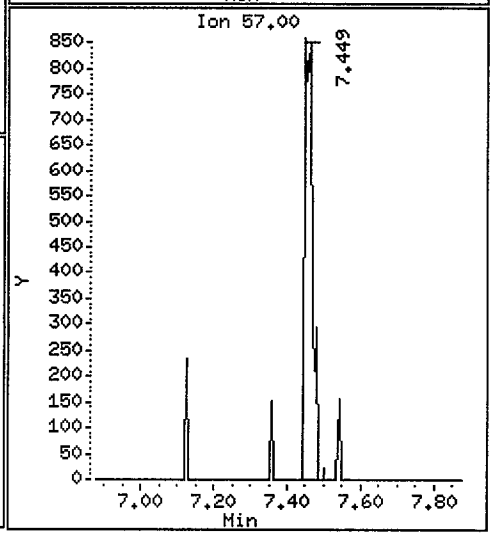












Data File: /chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

Client ID: G-3014-R2-VOST COND

Instrument: mz.i

Sample Info: H2HAD1AC,1,0,,

Purge Volume: 25.0

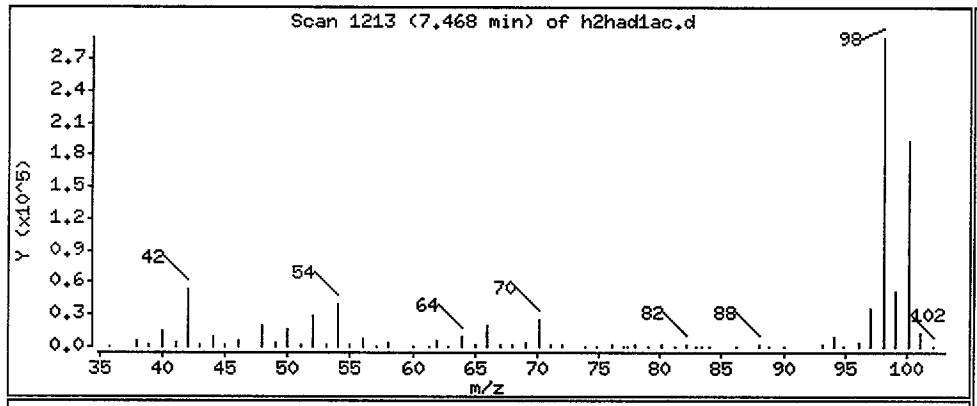
Operator: 063605

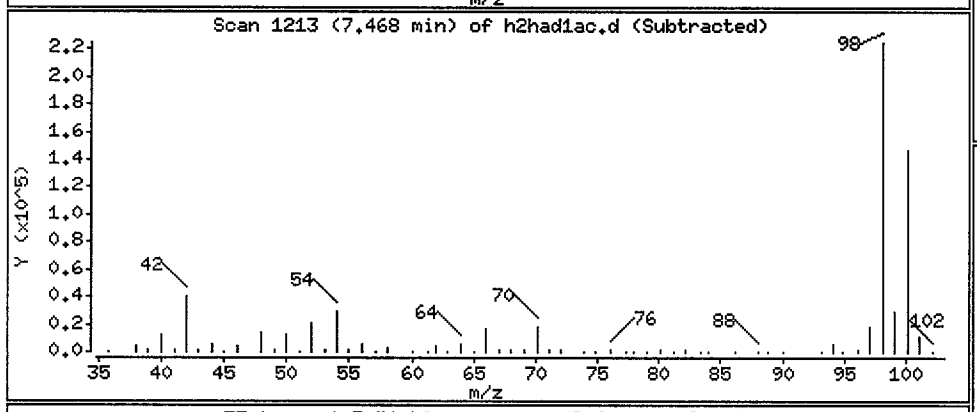
Column phase: J+W 624

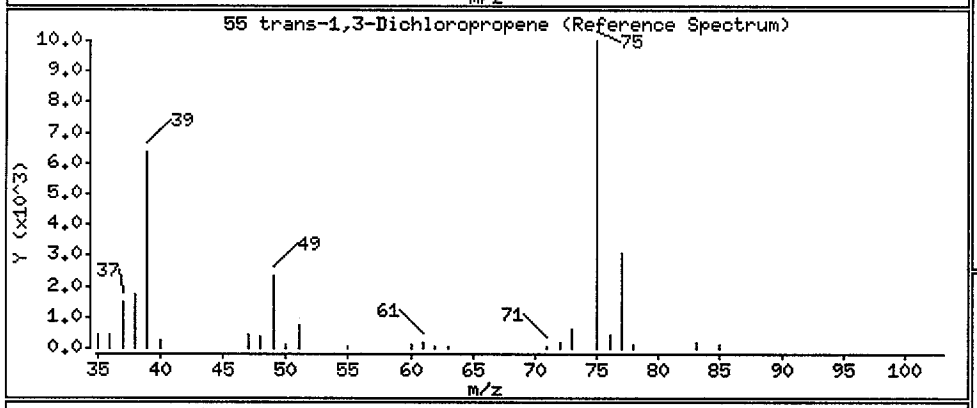
Column diameter: 0.18

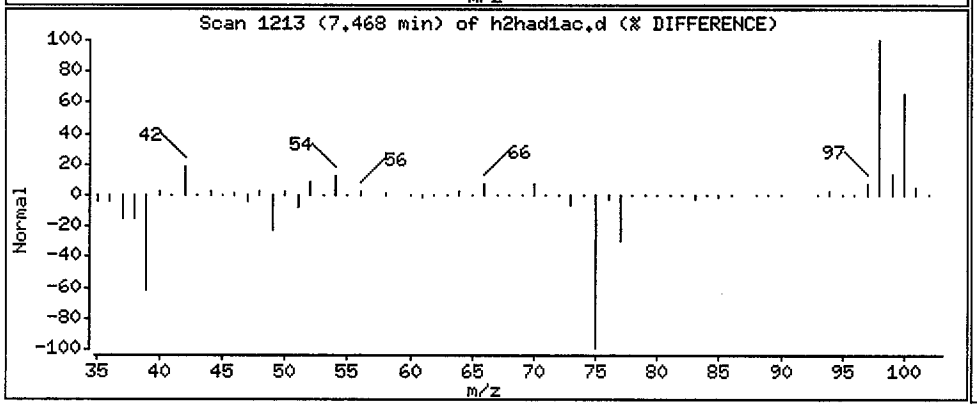
55 trans-1,3-Dichloropropene

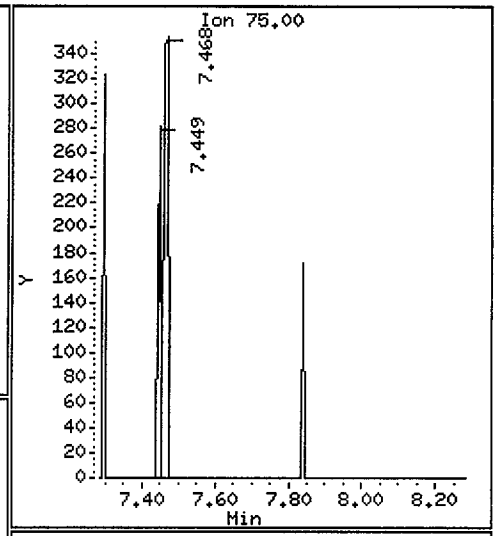
Concentration: 0.64172 ug/L

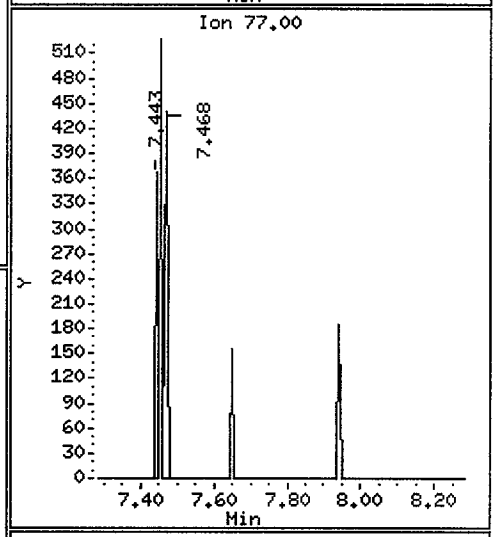


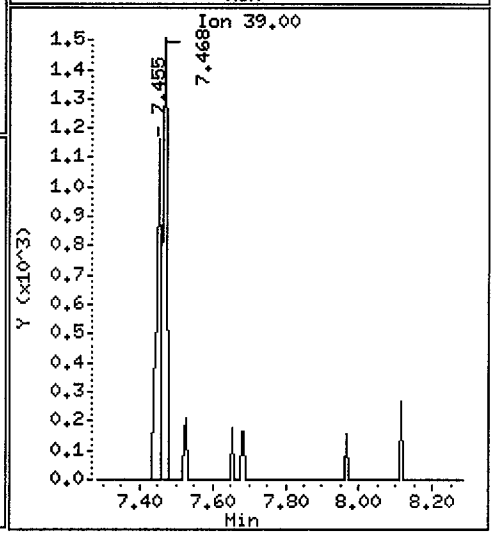












Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1ac.d
Report Date: 07-Apr-2006 14:35

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2had1ac.d
Lab Smp Id: H2HAD1AC Client Smp ID: G-3014-R2-VOST COND
Inj Date : 05-APR-2006 20:09
Operator : 063605 Inst ID: mz.i
Smp Info : H2HAD1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.667	1001551	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide Air					CAS #: 124-38-9		
0.910	3696958	36.9123290	36.912	5	NIST05.l	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2had1ac.d

Date : 05-APR-2006 20:09

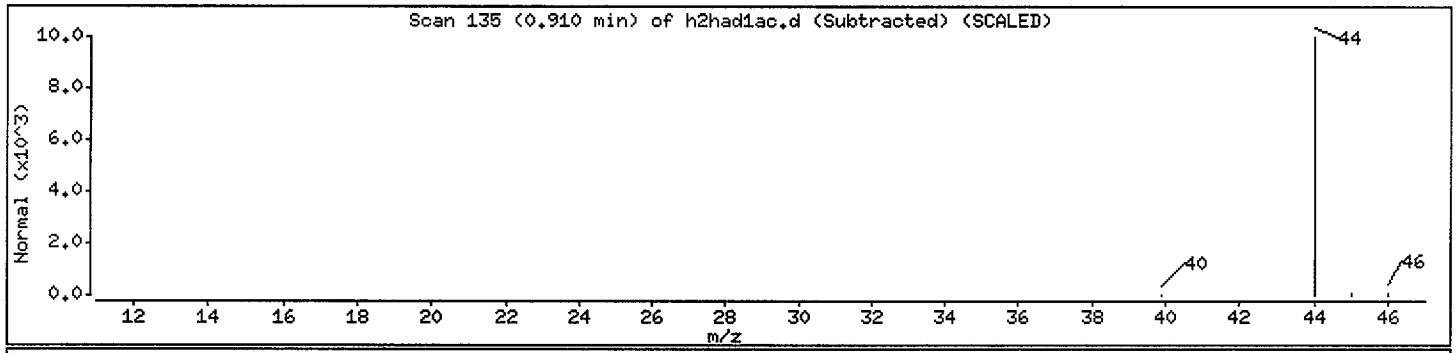
Client ID: G-3014-R2-VOST COND | Instrument: mz.i

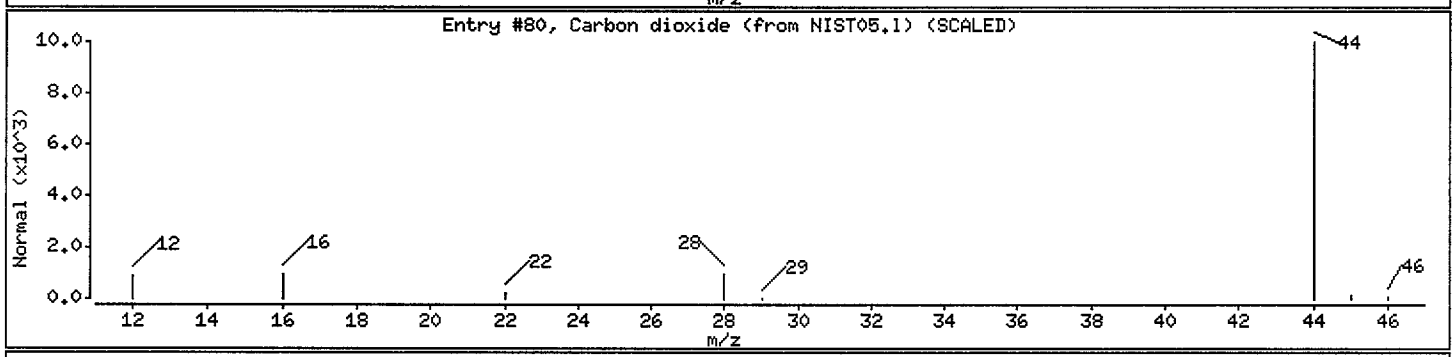
Sample Info: H2HAD1AC,1,0,,

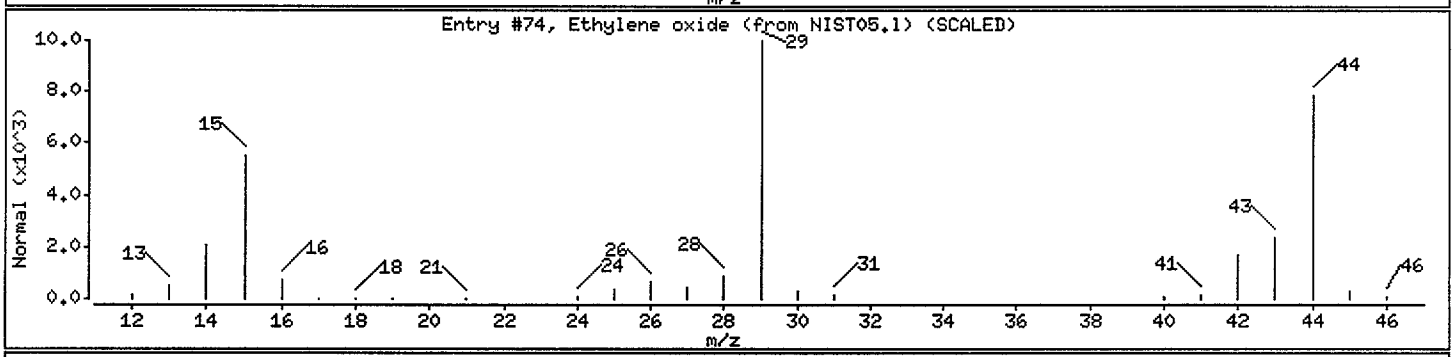
Purge Volume: 25.0 | Operator: 063605

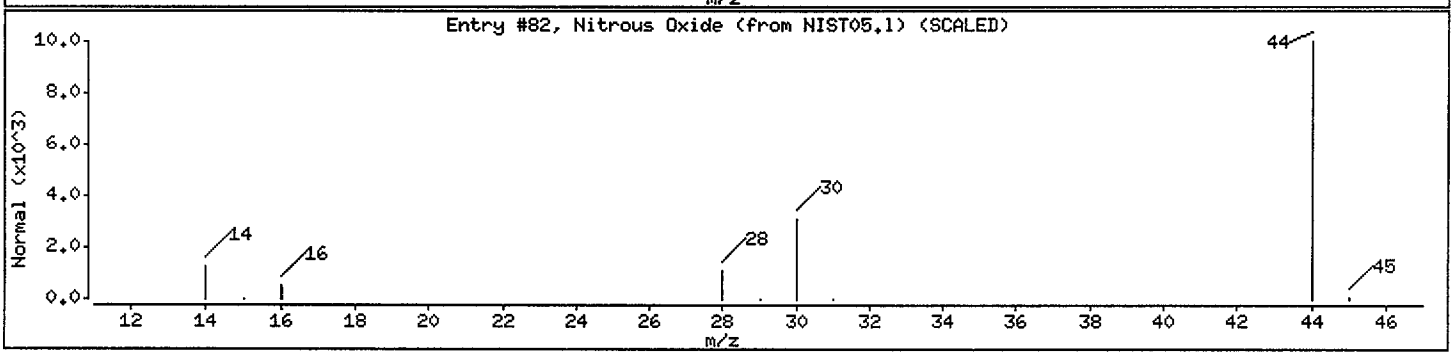
Column phase: J+W 624 | Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44









STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.089 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0026 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	92	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-021 **Work Order #:** H2HA71AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Lab Smp Id: H2HA71AA Client Smp ID: G-3015-R2-VOST TENA
Inj Date : 07-APR-2006 13:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HA71AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	798569	10.0000	
* 2 Chlorobenzene-d5	119	8.940	8.937	(1.000)	171904	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.492	(1.000)	226341	10.0000	
$ 4 Dibromofluoromethane	113	4.827	4.831	(0.851)	131874	10.3059	0.25765
$ 5 1,2-Dichloroethane-d4	65	5.235	5.238	(0.923)	101520	9.17471	0.22937
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	697256	9.23130	0.23078
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	188351	8.25142	0.20628
15 Bromomethane	94	1.408	1.418	(0.248)	961	0.94717	0.023679
22 Acetone	43	2.126	2.123	(0.375)	1473	3.55377	0.088844
23 *Iodomethane	142	2.175	2.184	(0.383)	634	0.55271	0.013818
24 Carbon Disulfide	76	2.242	2.239	(0.395)	6361	0.10383	0.0025958
27 Methylene Chloride	84	2.515	2.513	(0.443)	2497	0.18699	0.0046748
39 *THF	42	4.559	4.532	(0.804)	1178	0.62203	0.015551
45 1,2-Dichloroethane	62	5.667	5.335	(0.999)	7542	0.45229	~~0.011307~~
53 4-Methyl-2-pentanone	43	7.467	7.386	(1.316)	5188	0.74395	~~0.018599~~
54 Toluene (ccc)	91	7.534	7.532	(0.843)	5818	0.05947	0.0014868

JW 4.4.06

21

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
55 trans-1,3-Dichloropropene	75	8.112	7.793	(0.907)	931	0.68483	0.017121
57 1,1,2-Trichloroethane	97	8.112	7.964	(0.907)	827	0.10421	0.0026052
69 Bromoform (spcc)	173	10.114	9.782	(1.131)	110	0.84144	0.021036
74 1,2,3-Trichloropropane	110	10.503	10.324	(0.914)	482	0.24743	0.0061857

JW 4-14-06

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2ha71aa.d
Lab Smp Id: H2HA71AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3015-R2-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	798569	-16.17
2 Chlorobenzene-d5	164101	82050	328202	171904	4.75
3 1,4 Dichlorobenze	204390	102195	408780	226341	10.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.06
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.03
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 07-Apr-2006 13:51

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HA71AA
Client Smp ID: G-3015-R2-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

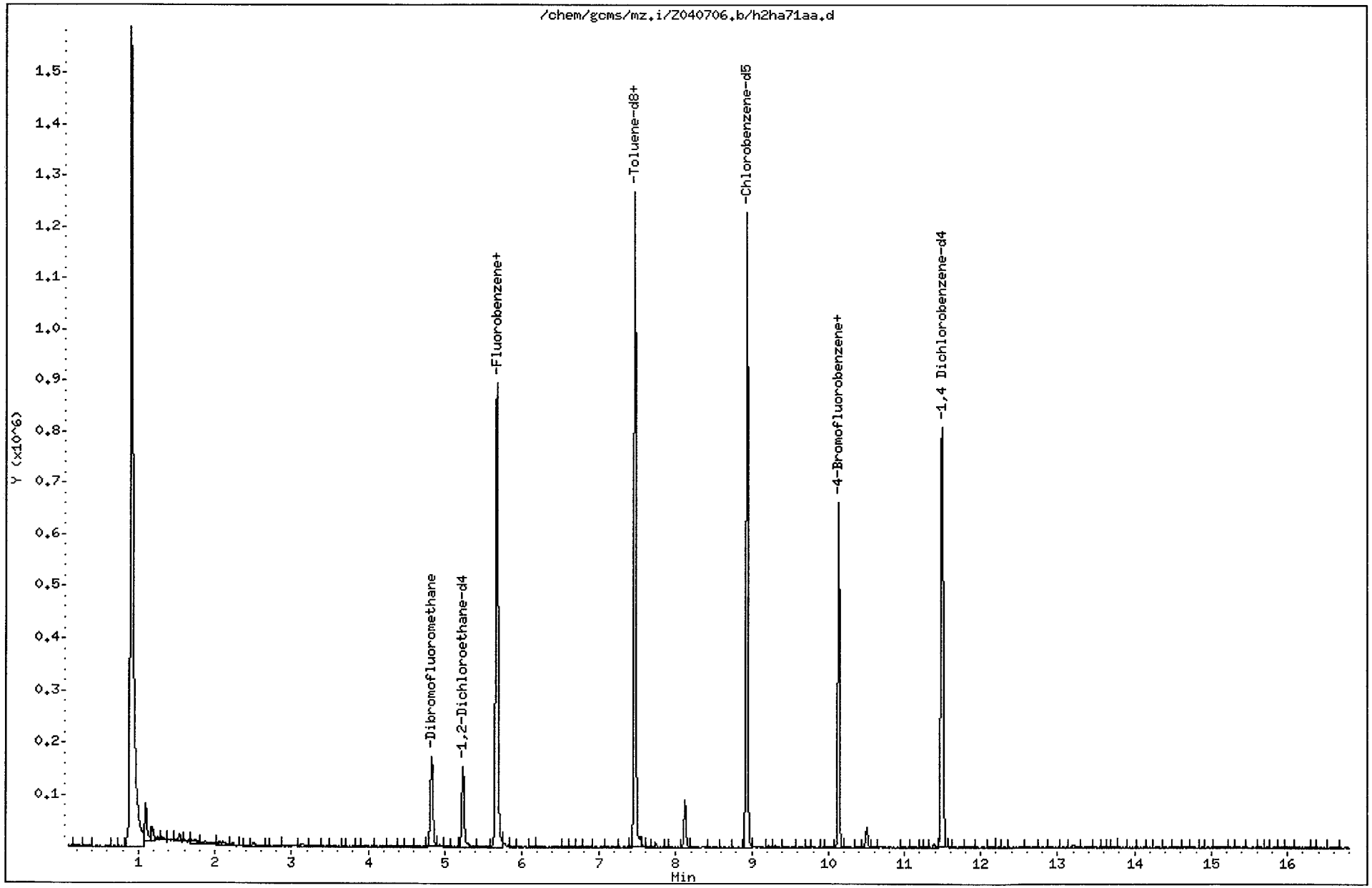
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25765	103.06	50-150
$ 5 1,2-Dichloroethane	0.25000	0.22937	91.75	50-150
$ 6 Toluene-d8	0.25000	0.23078	92.31	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20628	82.51	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Date : 07-APR-2006 13:33
Client ID: G-3015-R2-VOST TENA
Sample Info: H2HA71AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

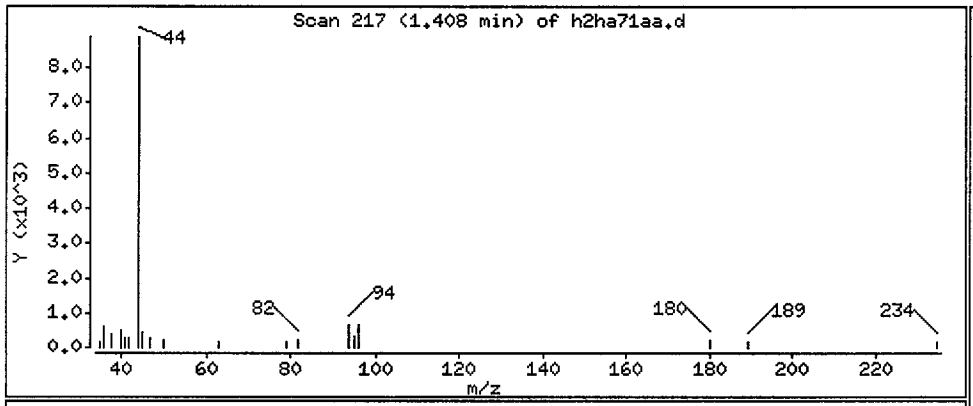
Operator: 22980

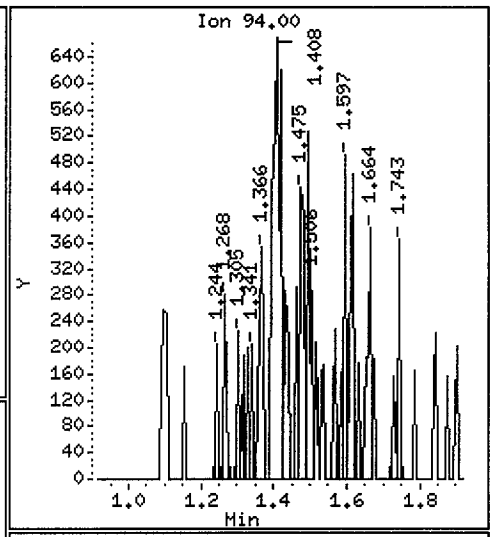
Column phase: J+W 624

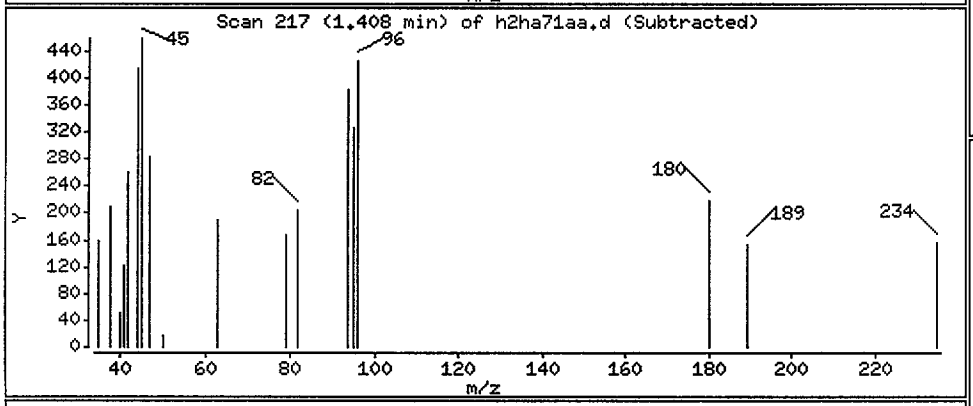
Column diameter: 0.18

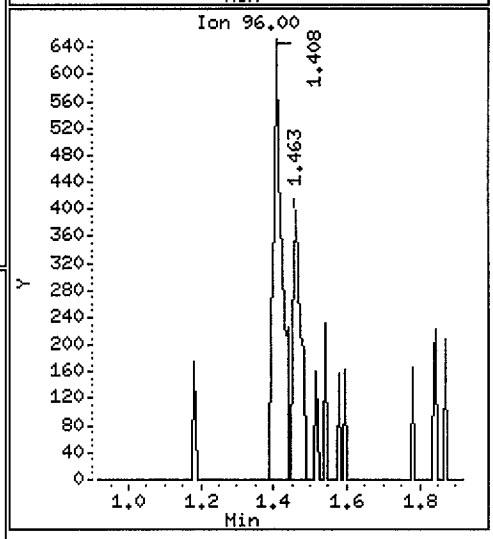
15 Bromomethane

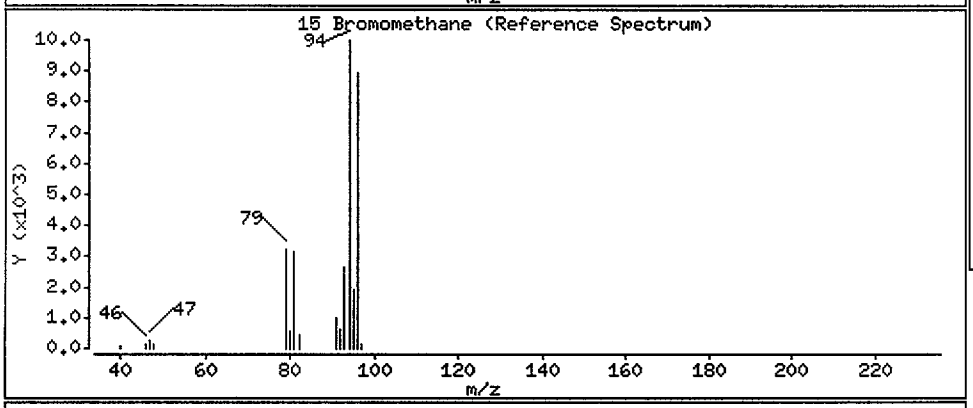
Concentration: 0.023679 ug

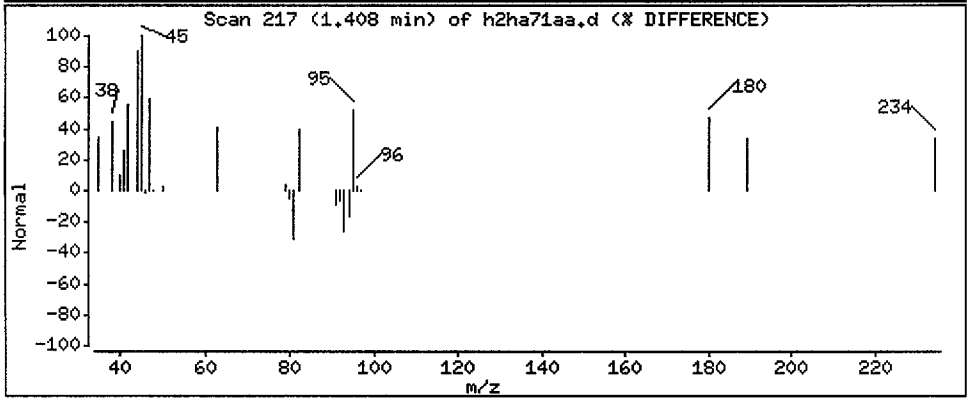












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

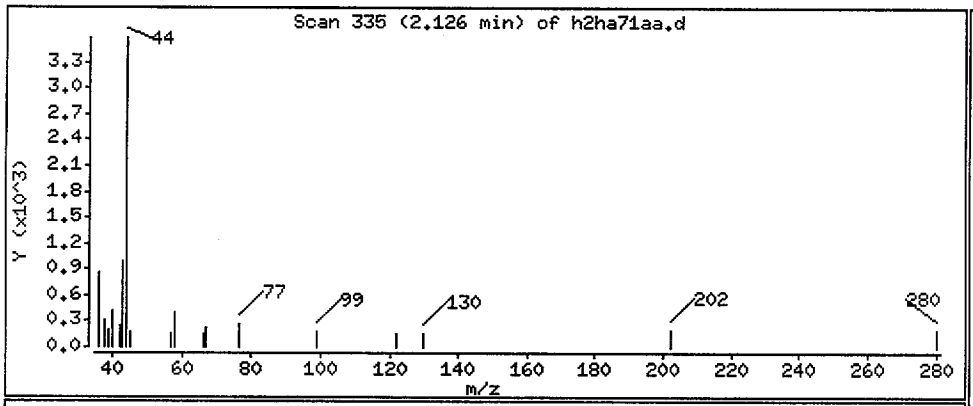
Operator: 22980

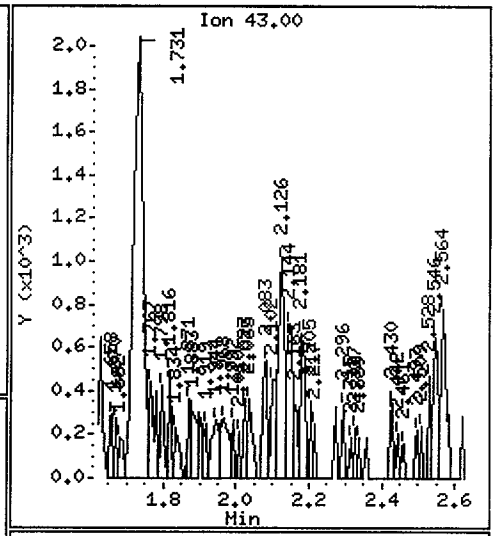
Column phase: J+W 624

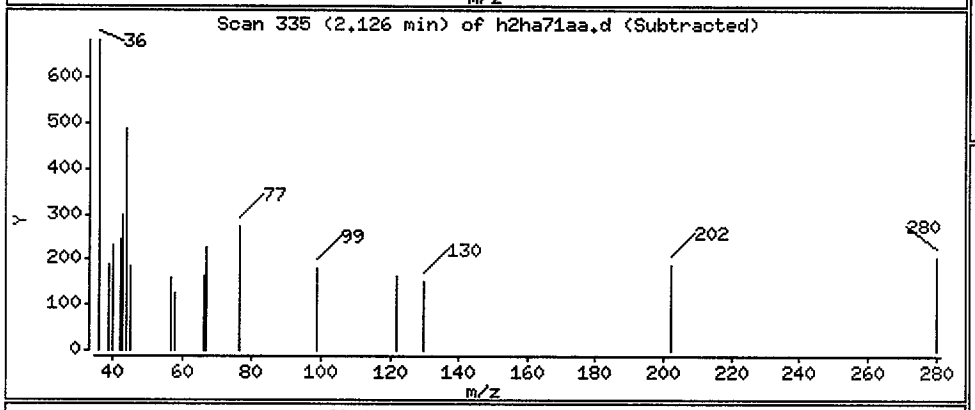
Column diameter: 0.18

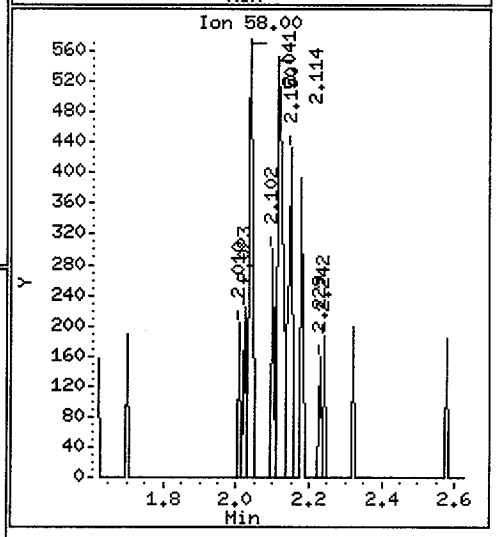
22 Acetone

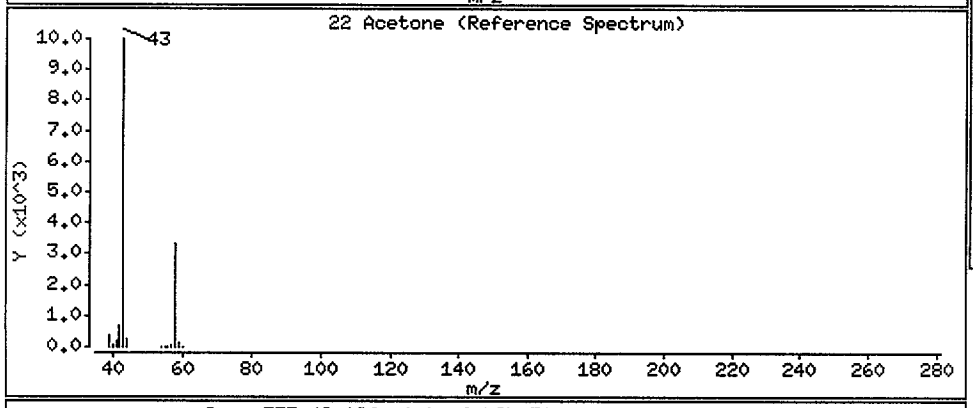
Concentration: 0.088844 ug

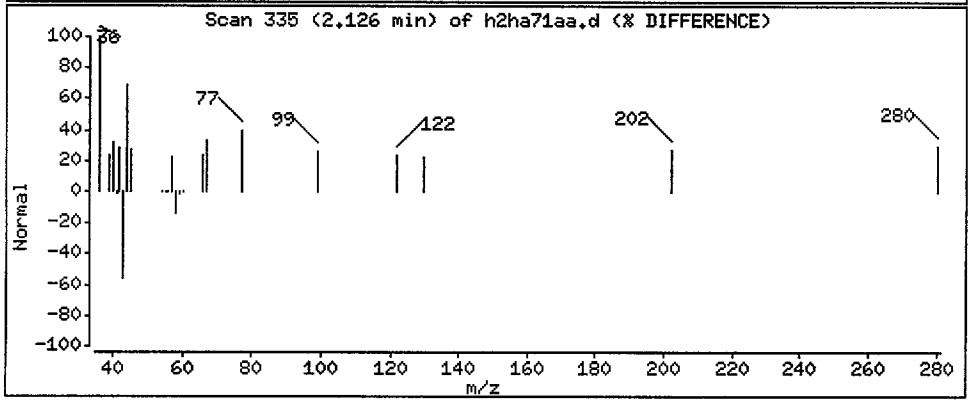












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

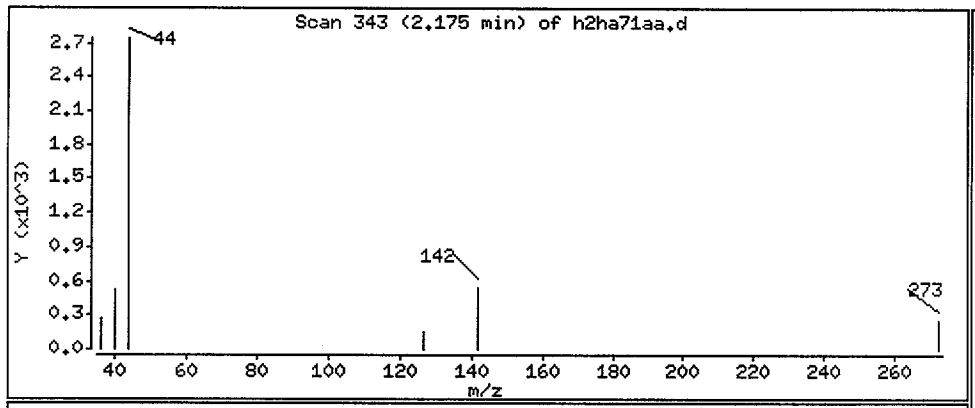
Operator: 22980

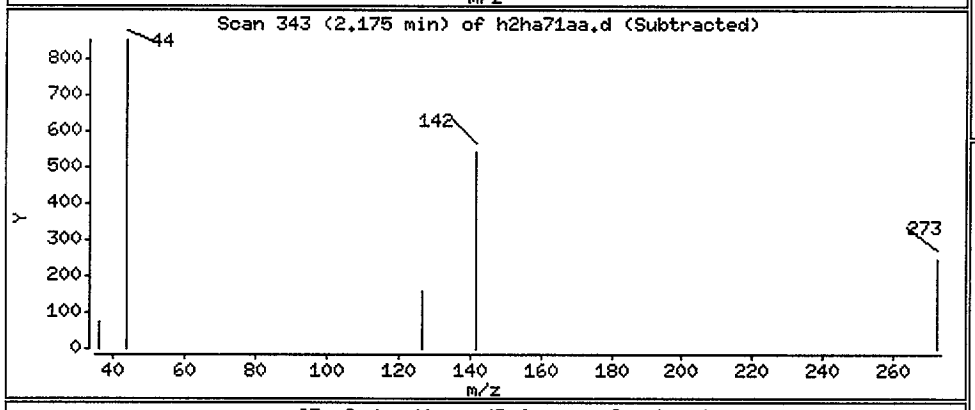
Column phase: J+W 624

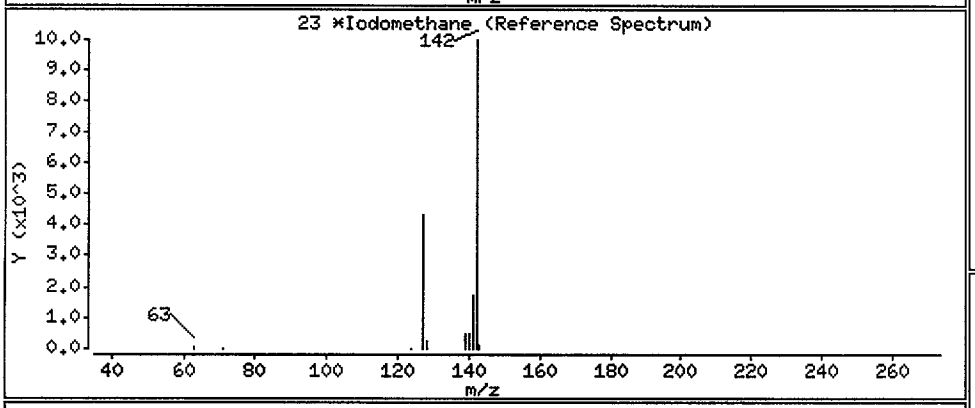
Column diameter: 0.18

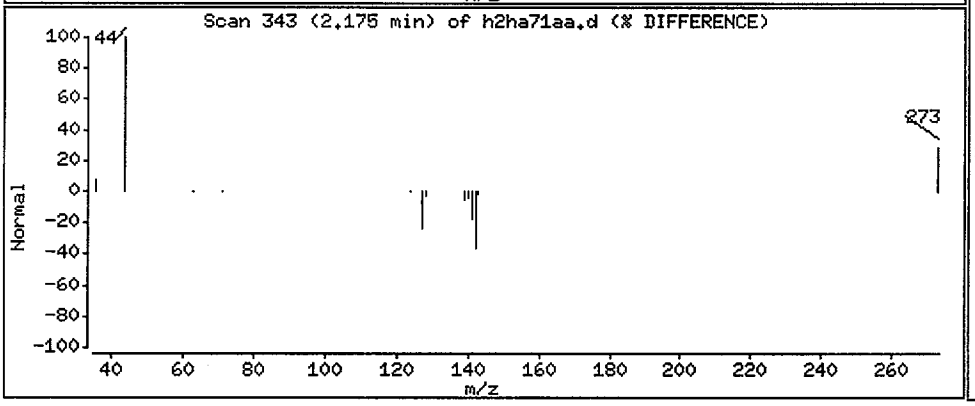
23 *Iodomethane

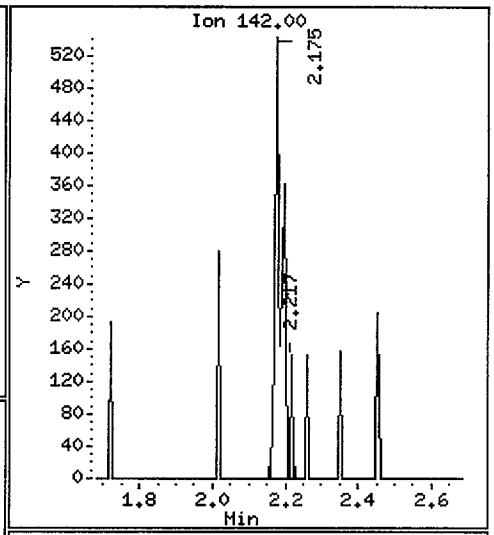
Concentration: 0.013818 ug

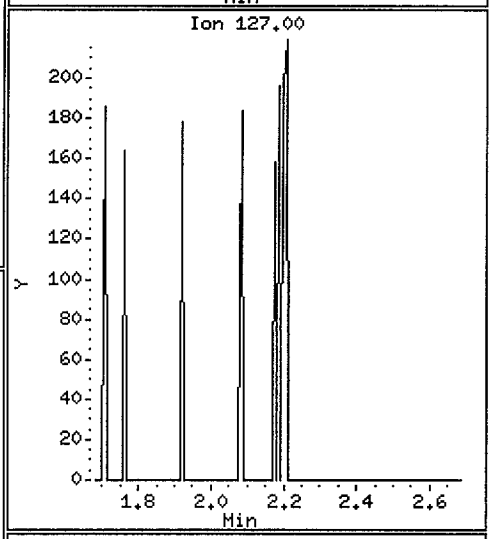


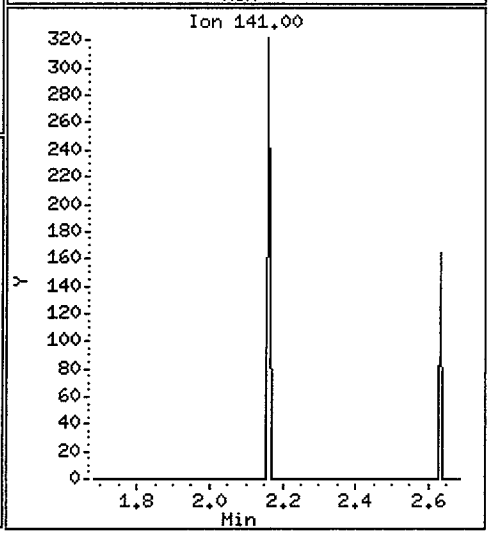












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

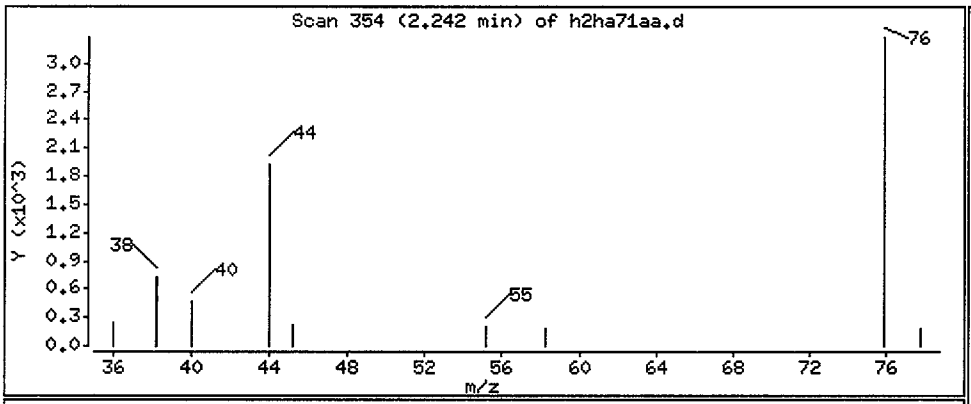
Operator: 22980

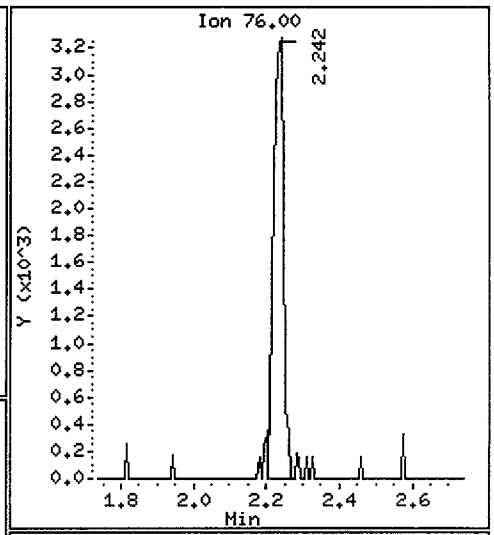
Column phase: J+W 624

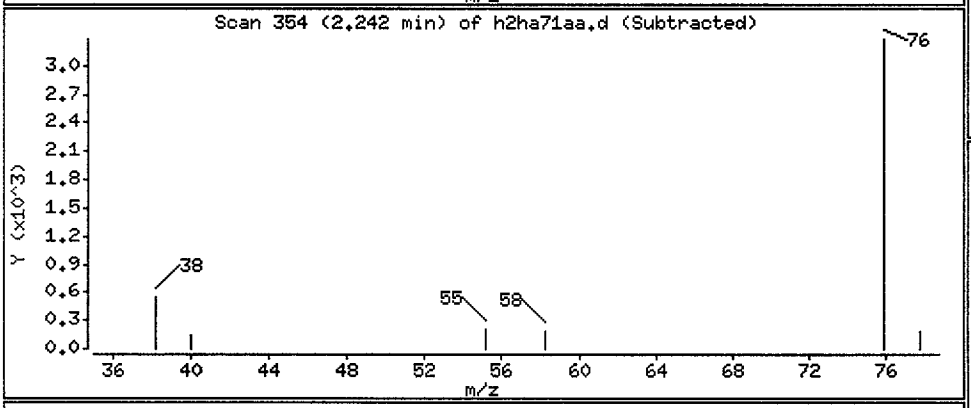
Column diameter: 0.18

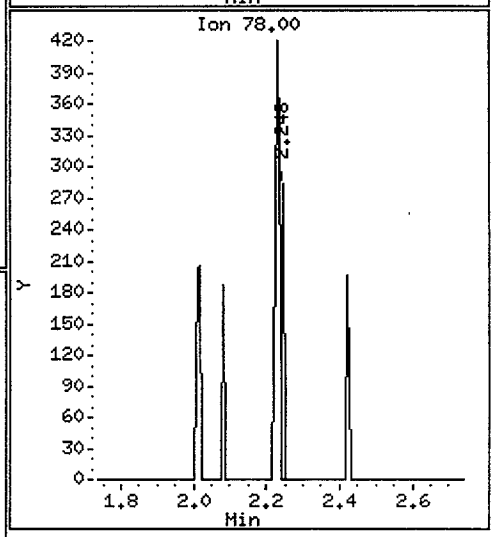
24 Carbon Disulfide

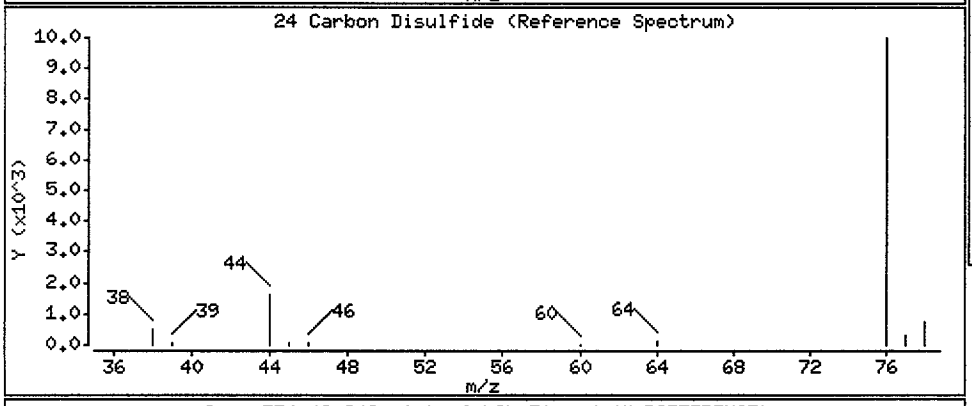
Concentration: 0.0025958 ug

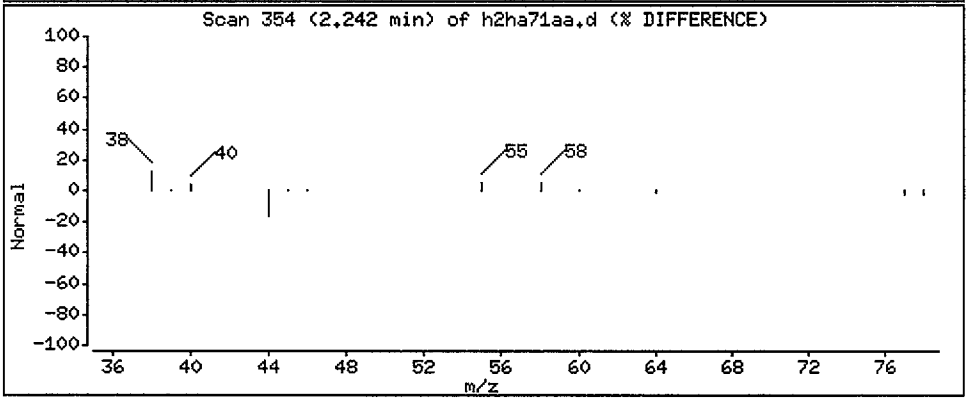












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

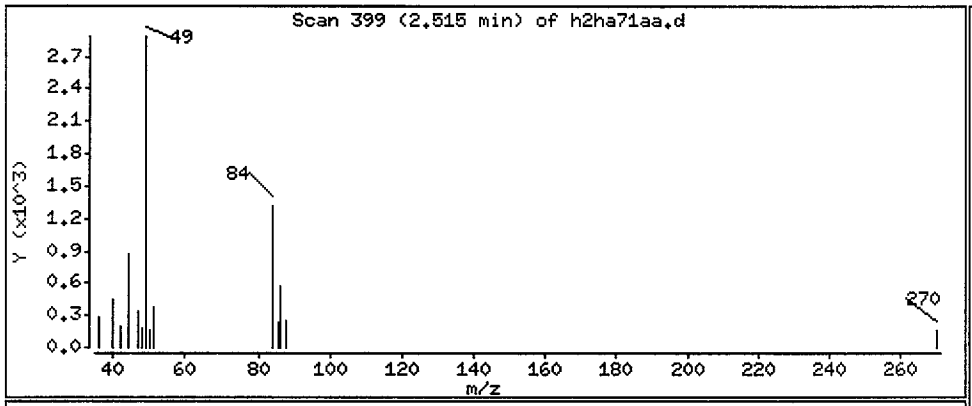
Operator: 22980

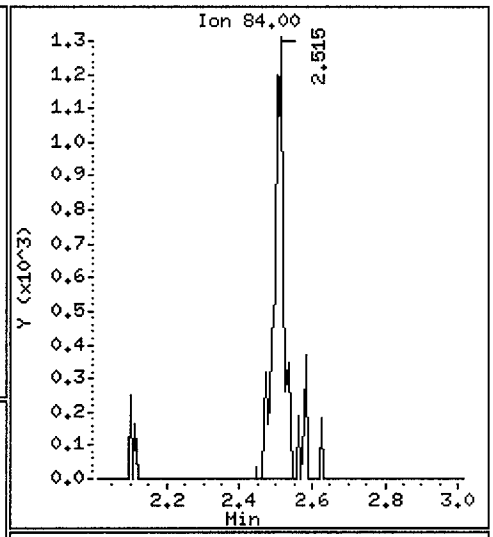
Column phase: J+W 624

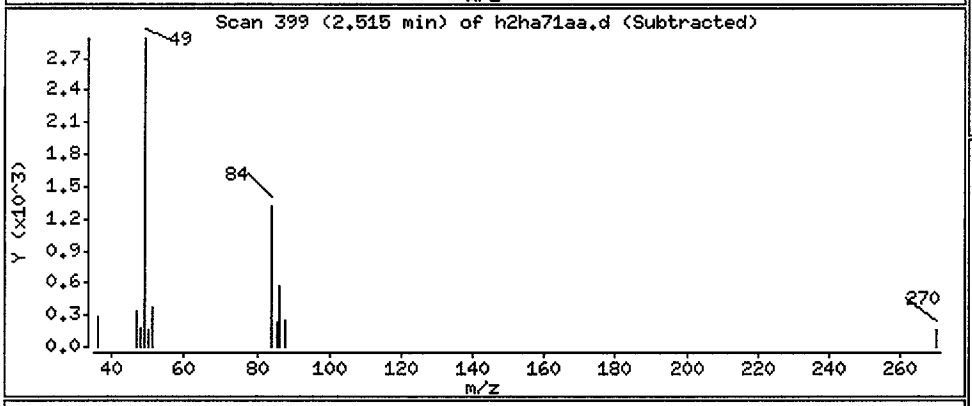
Column diameter: 0.18

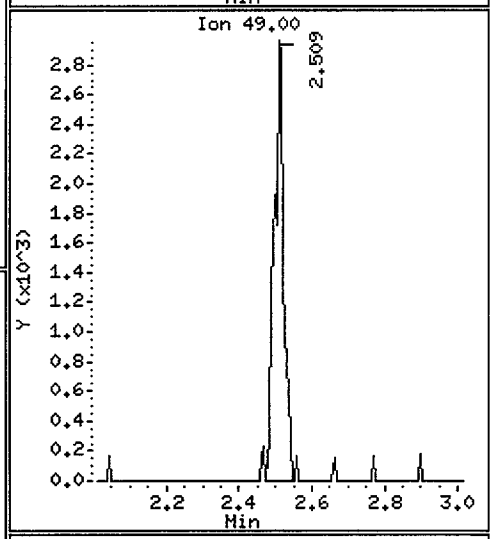
27 Methylene Chloride

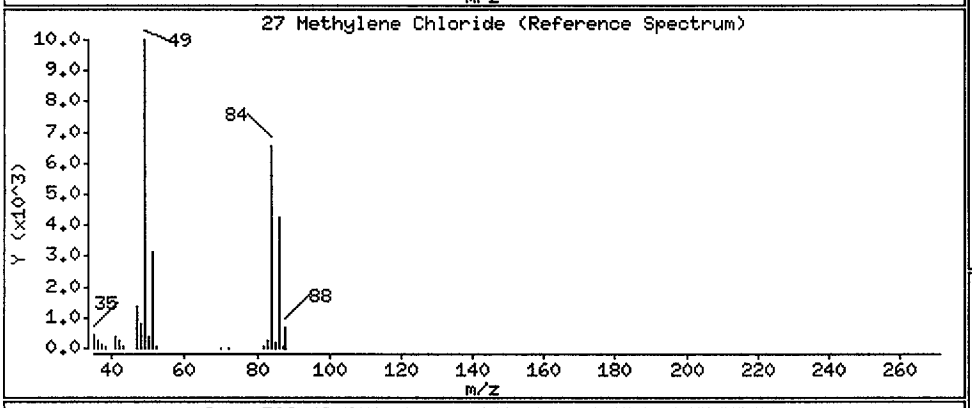
Concentration: 0.0046748 ug

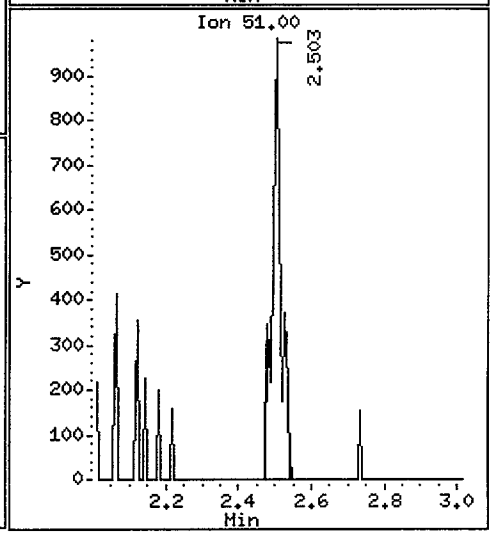


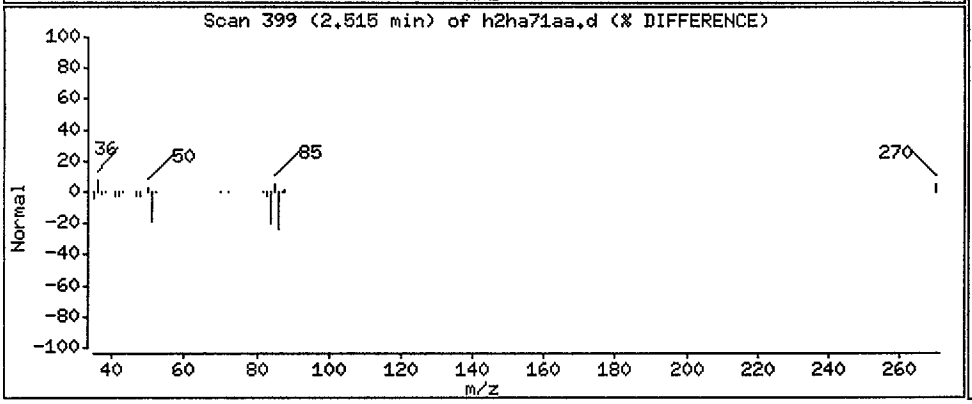












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

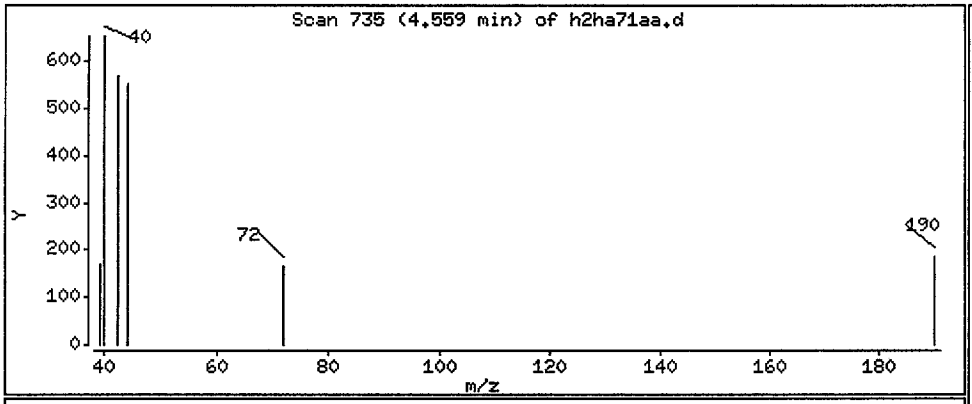
Operator: 22980

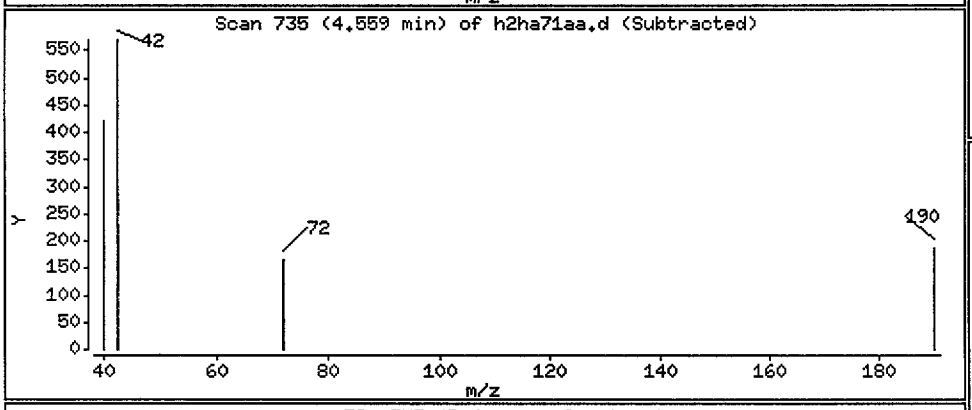
Column phase: J+W 624

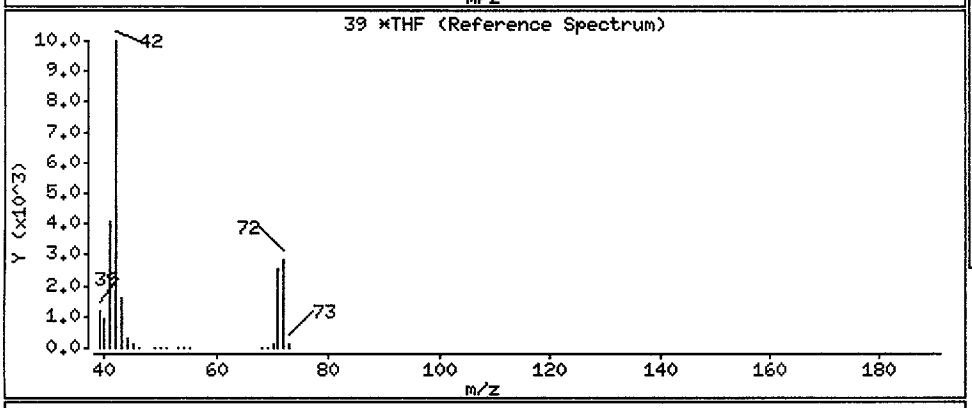
Column diameter: 0.18

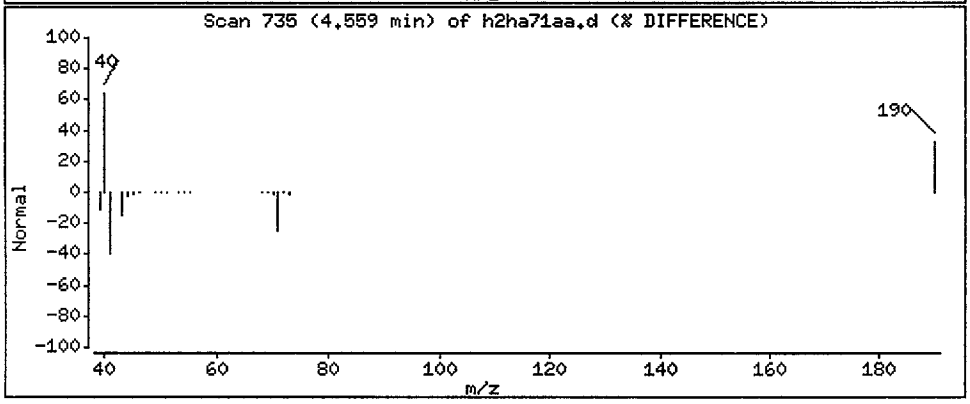
39 *THF

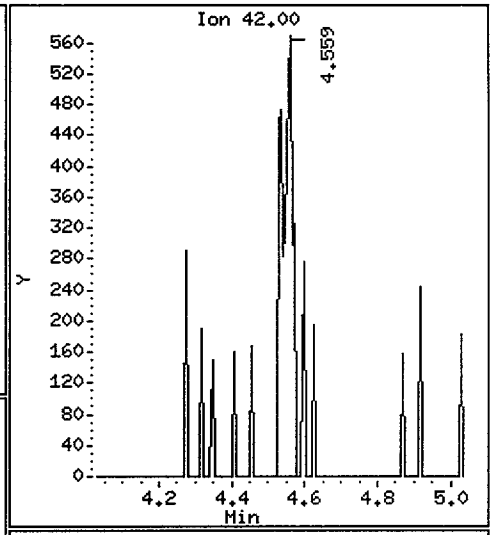
Concentration: 0.015551 ug

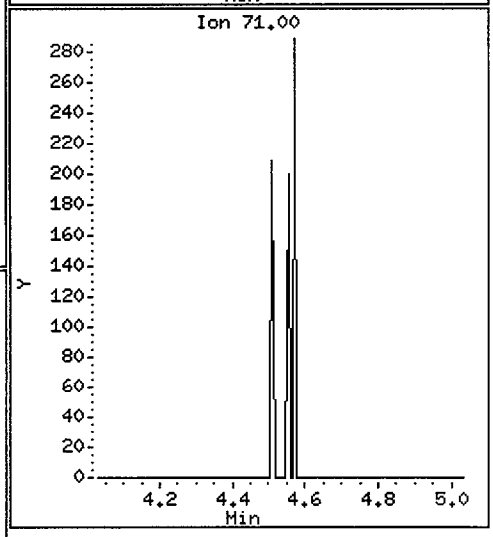












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

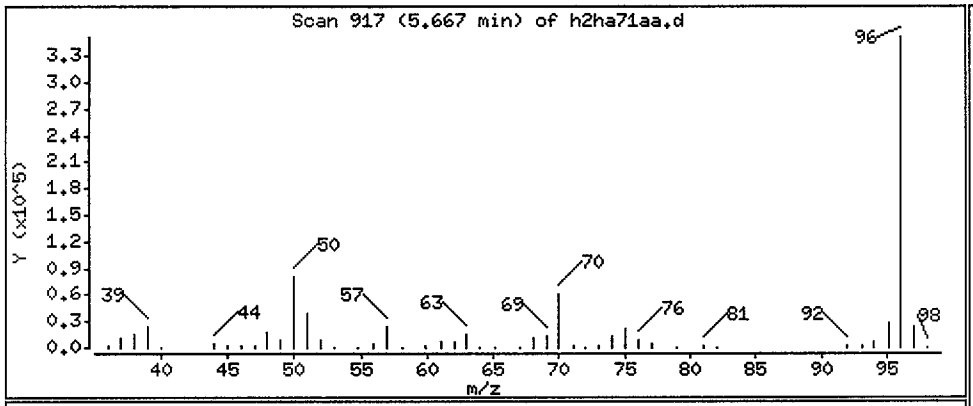
Operator: 22980

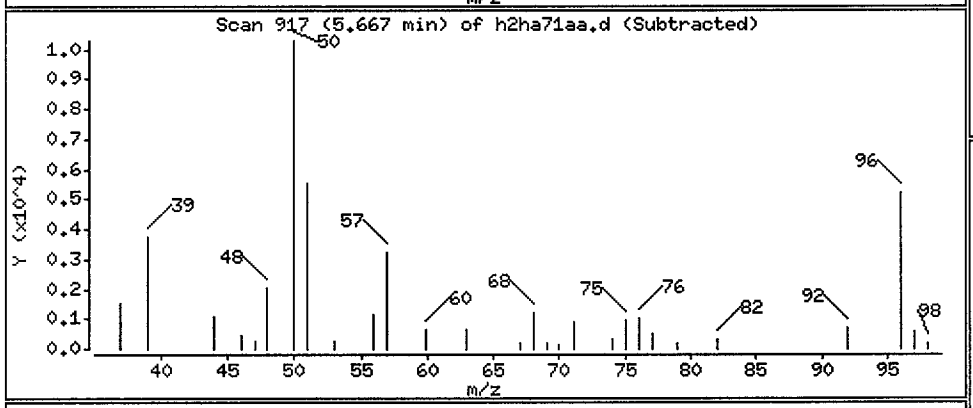
Column phase: J+W 624

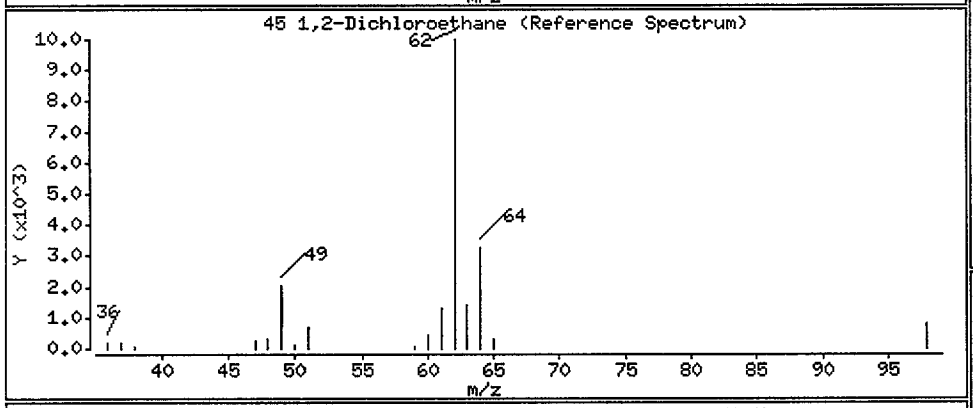
Column diameter: 0.18

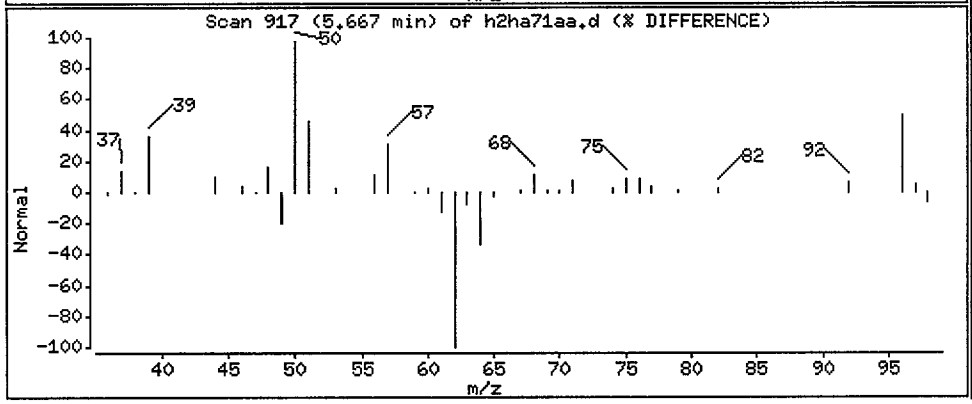
45 1,2-Dichloroethane

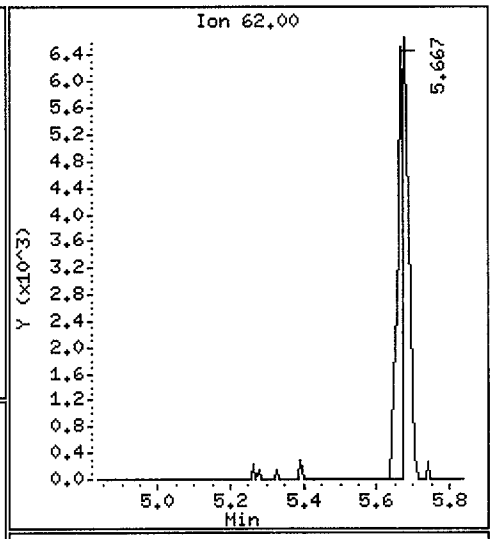
Concentration: 0.011307 ug

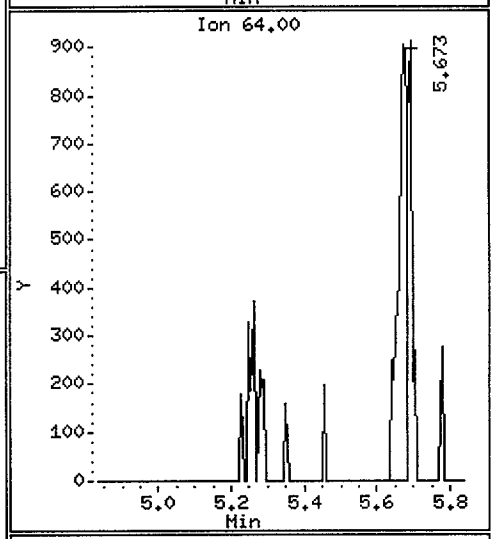


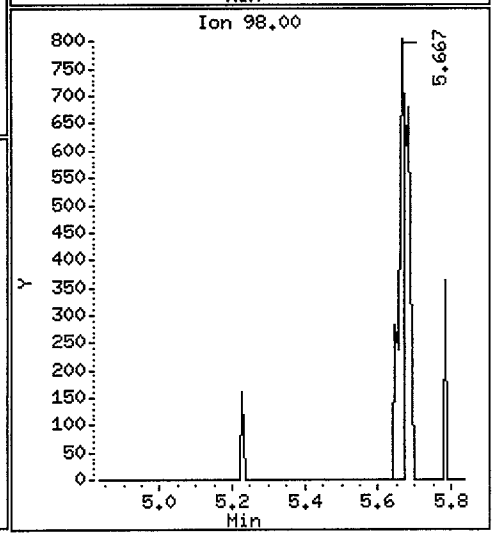












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

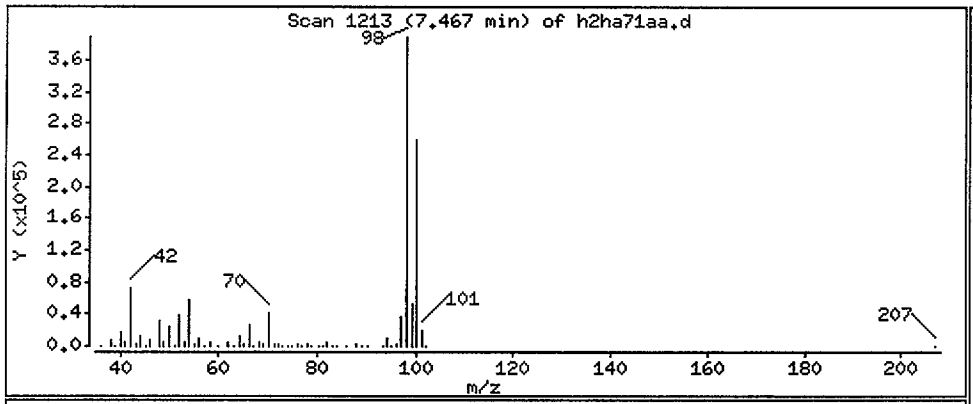
Operator: 22980

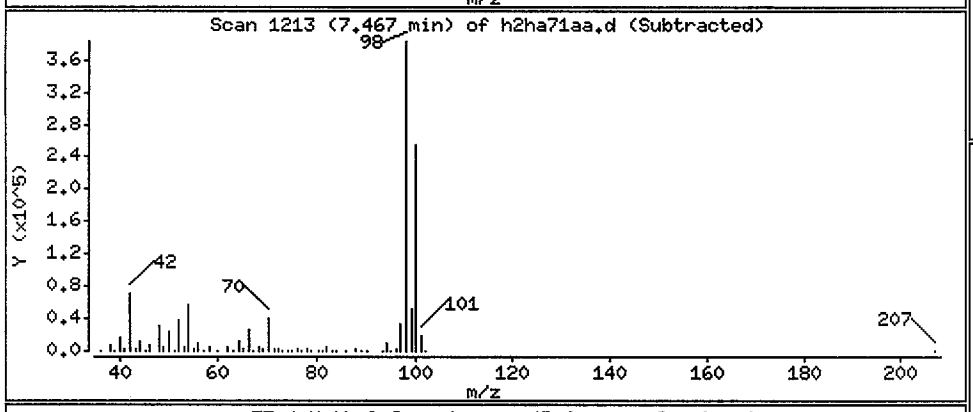
Column phase: J+W 624

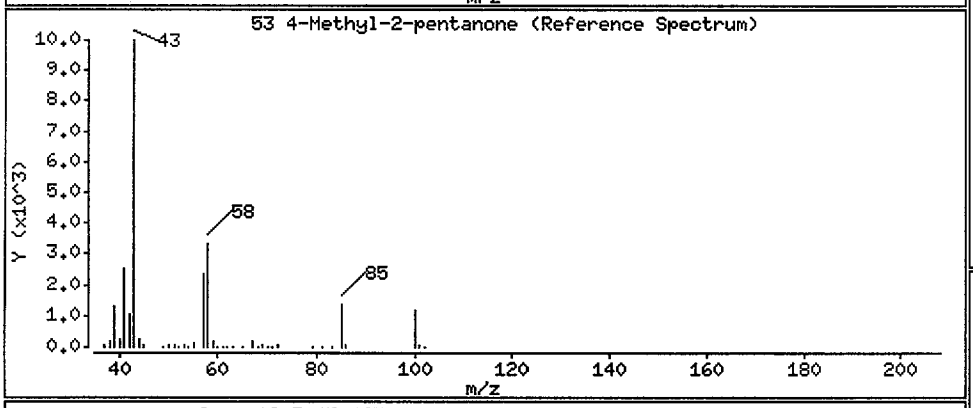
Column diameter: 0.18

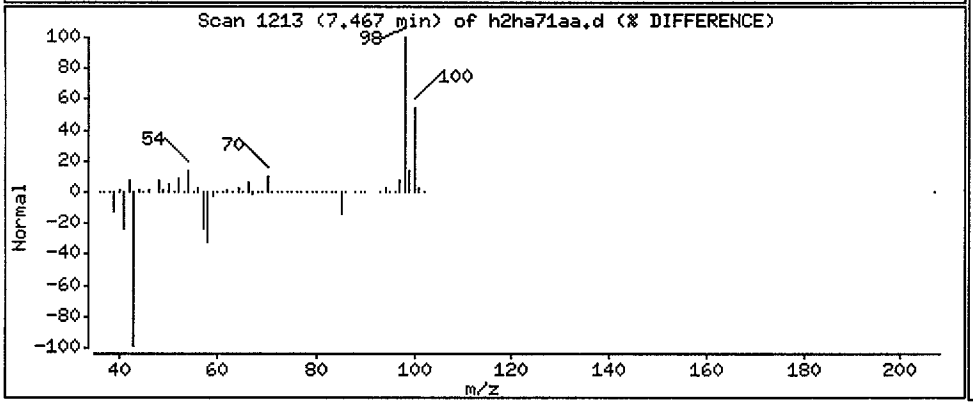
53 4-Methyl-2-pentanone

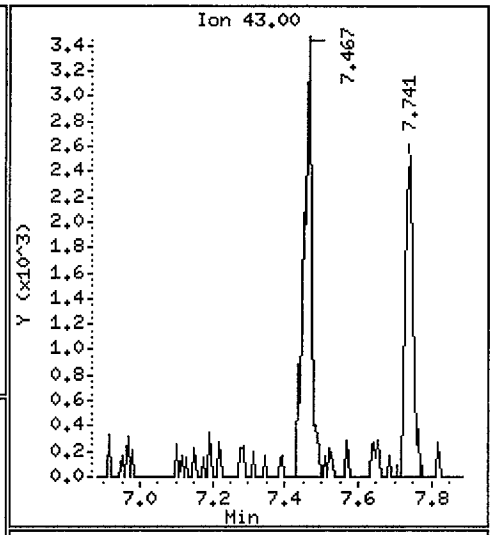
Concentration: 0.018599 ug

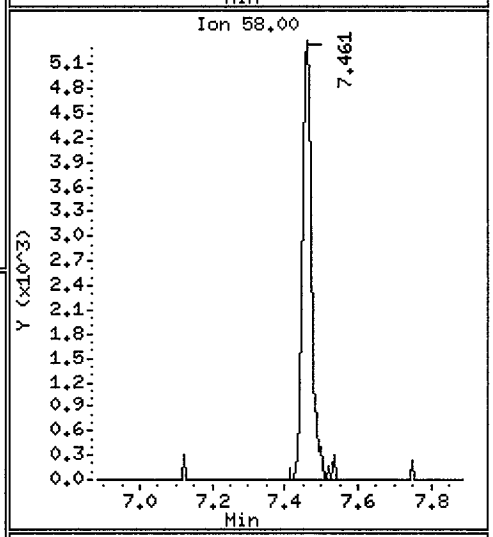


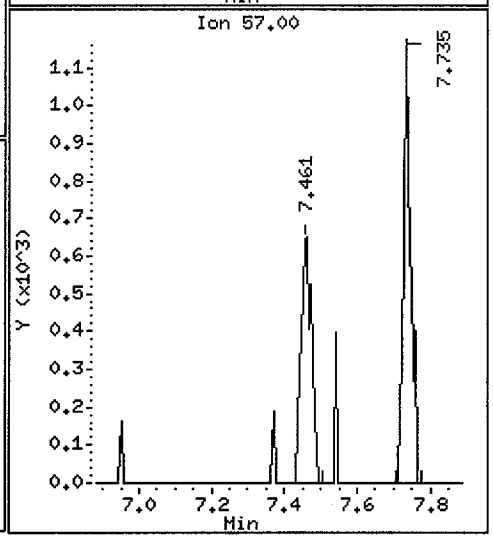












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

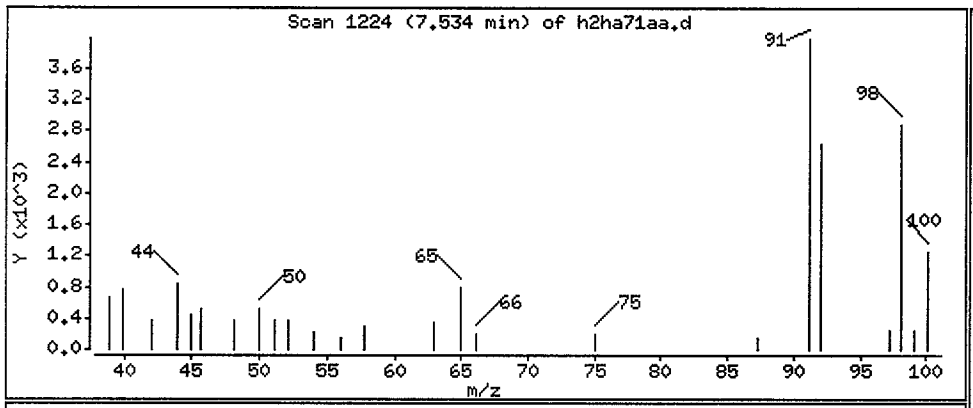
Operator: 22980

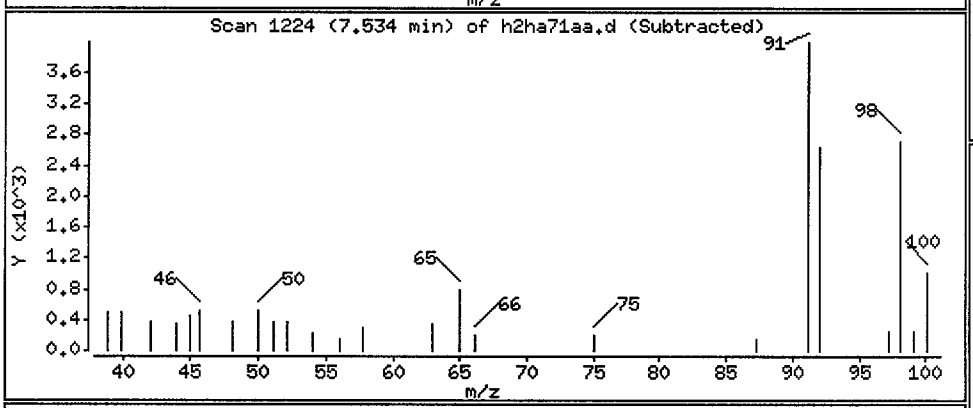
Column phase: J+W 624

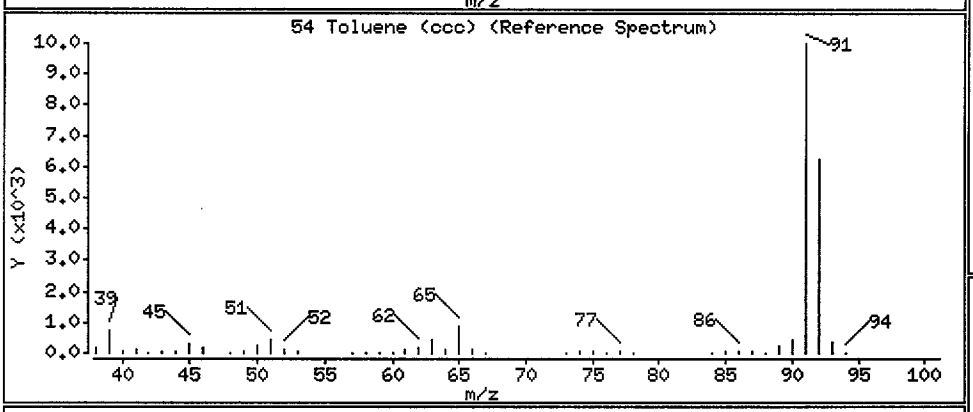
Column diameter: 0.18

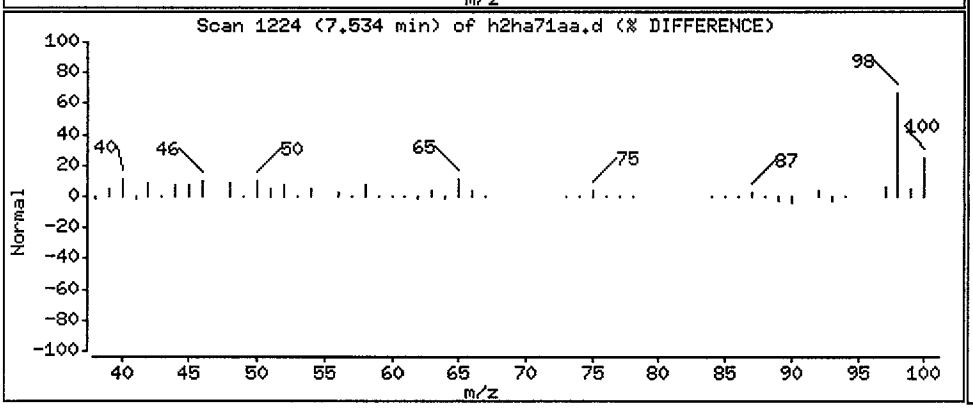
54 Toluene (ccc)

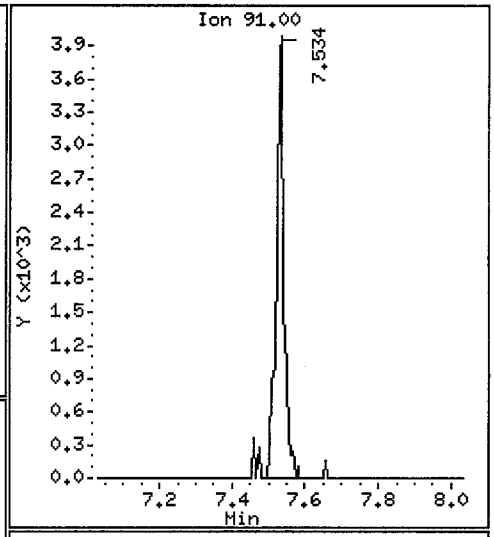
Concentration: 0.0014868 ug

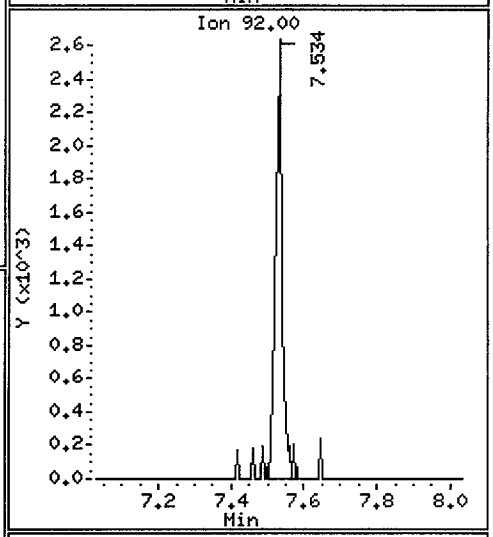


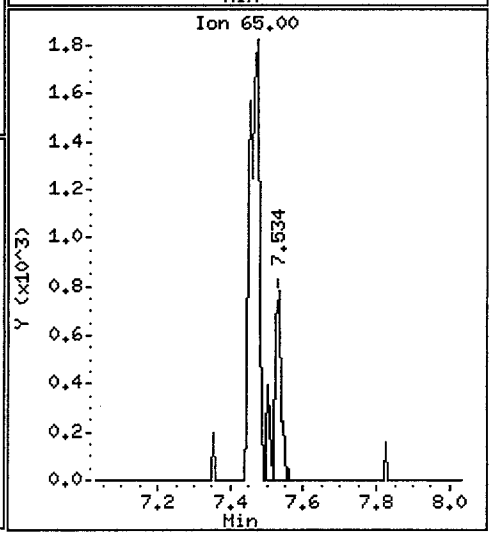












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

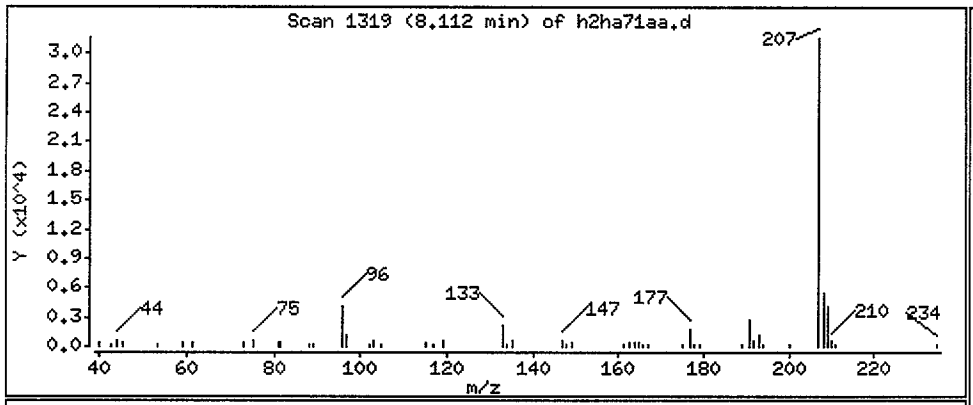
Operator: 22980

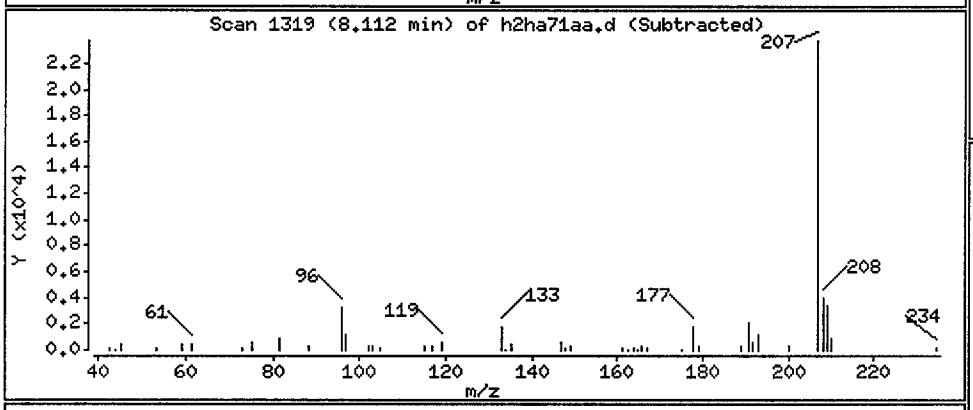
Column phase: J+W 624

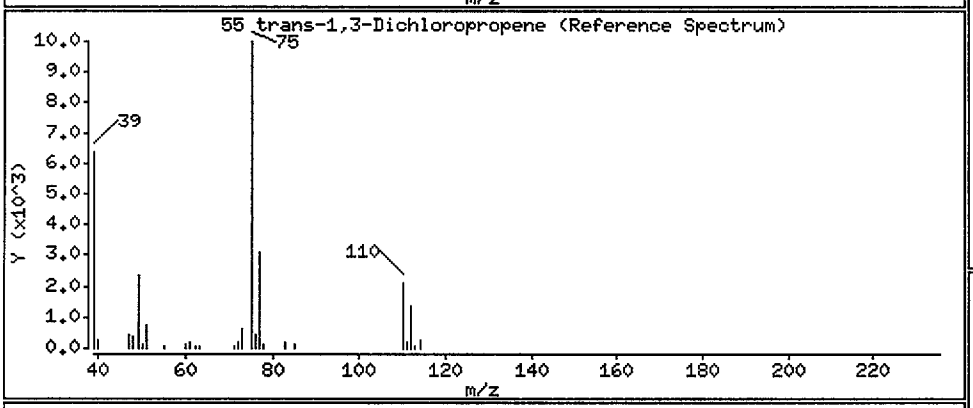
Column diameter: 0.18

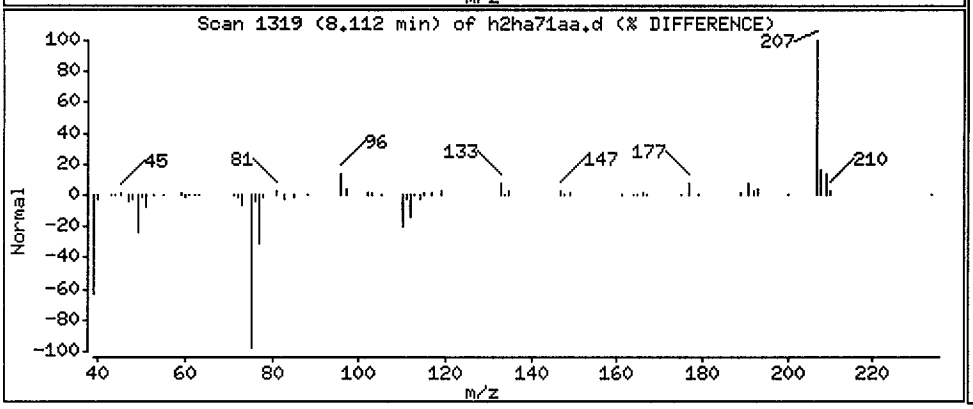
55 trans-1,3-Dichloropropene

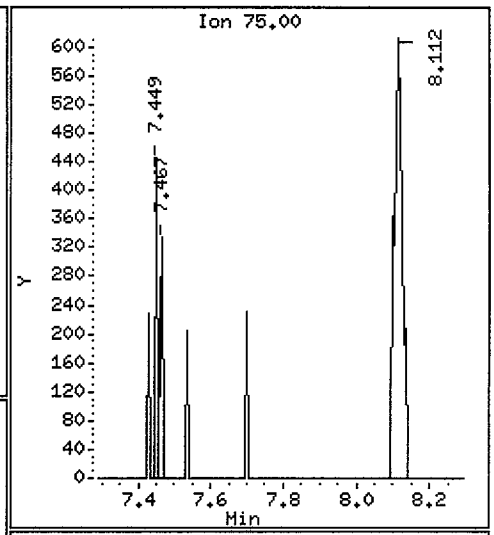
Concentration: 0.017121 ug

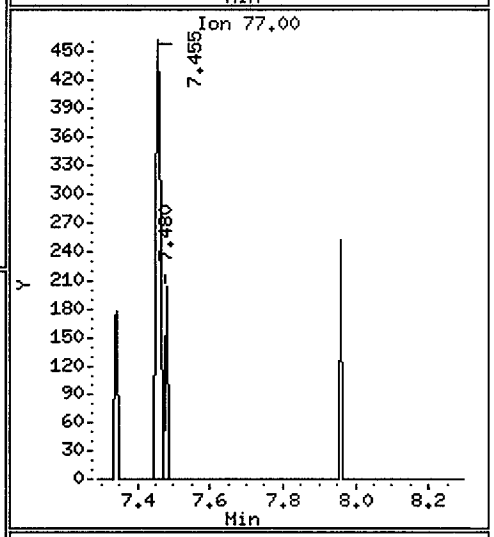


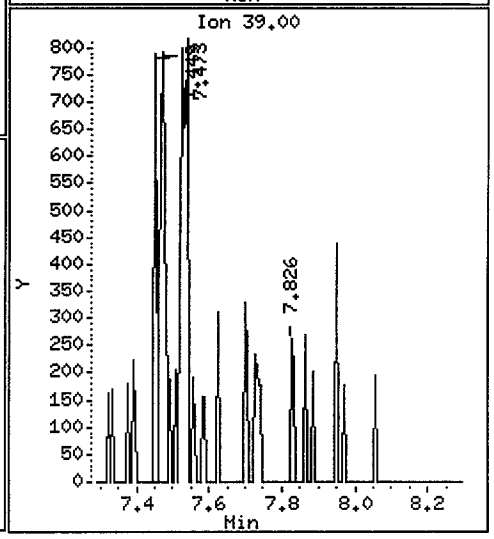












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

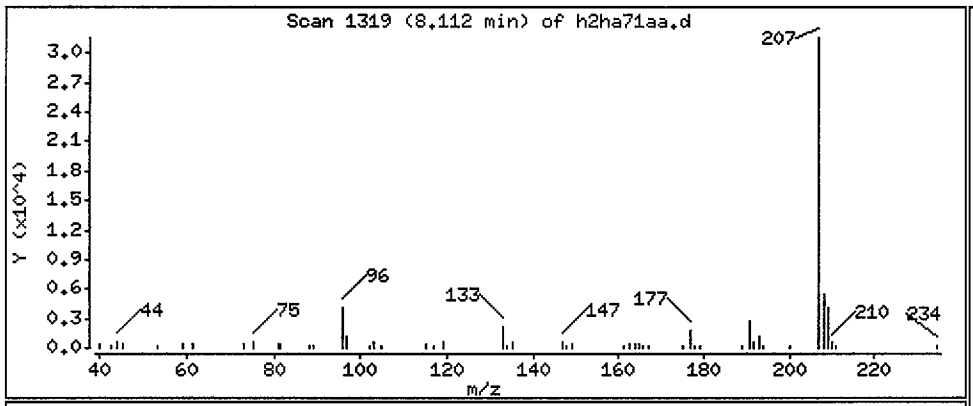
Operator: 22980

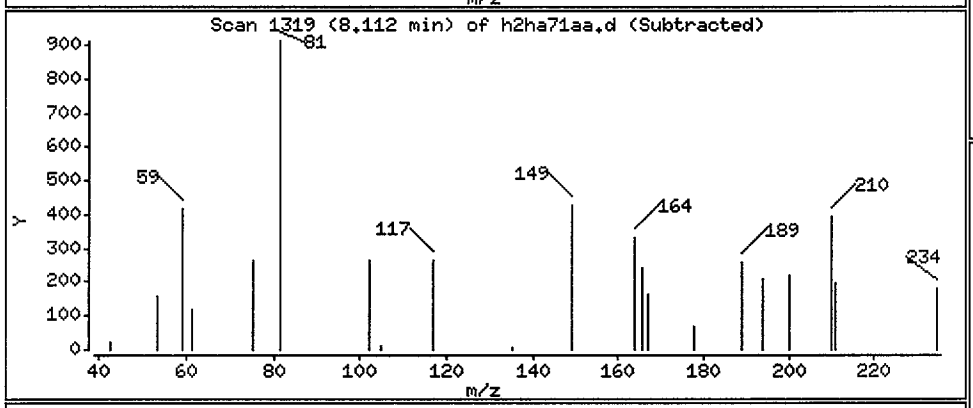
Column phase: J+W 624

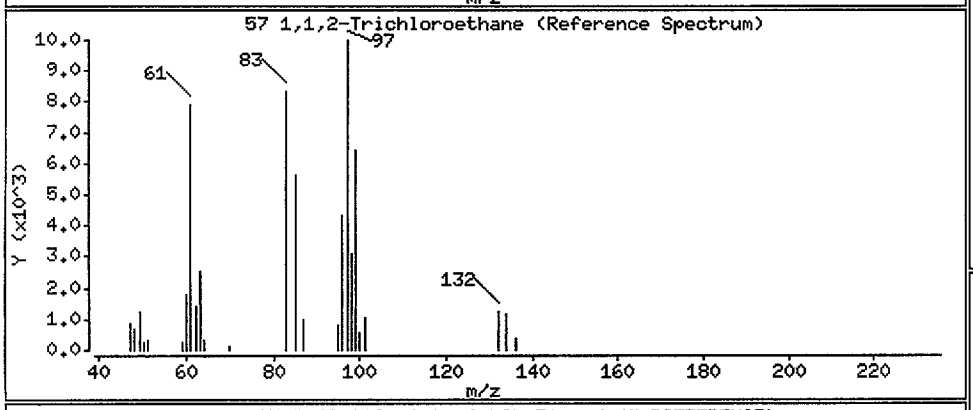
Column diameter: 0.18

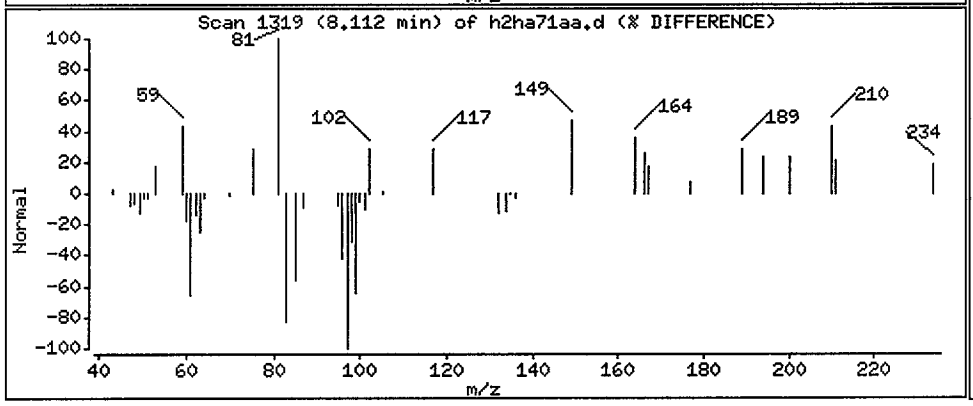
57 1,1,2-Trichloroethane

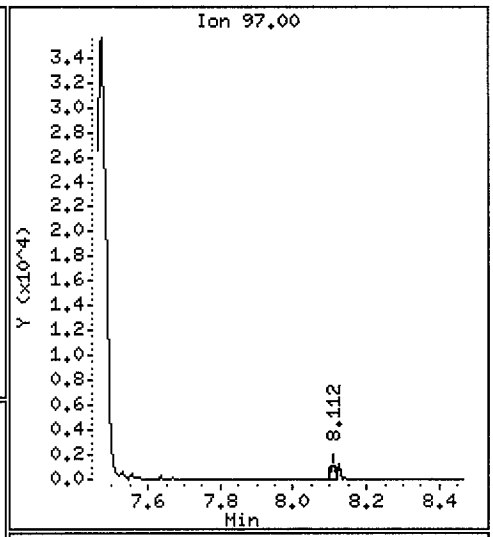
Concentration: 0.0026052 ug

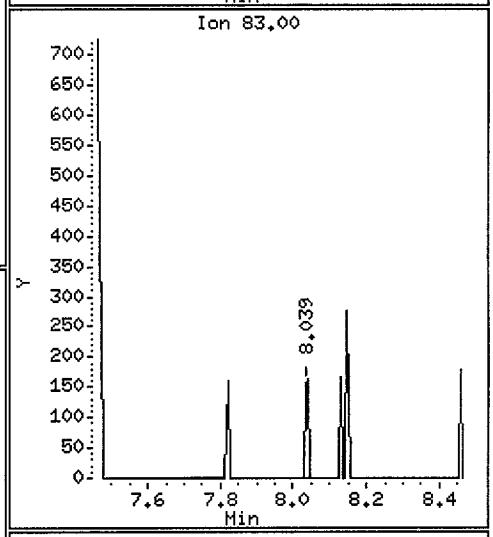


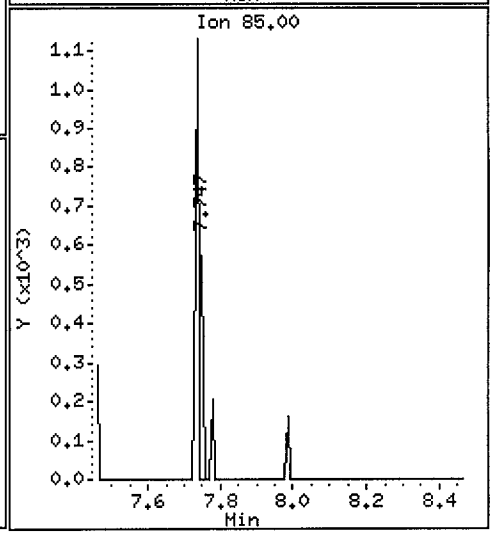












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

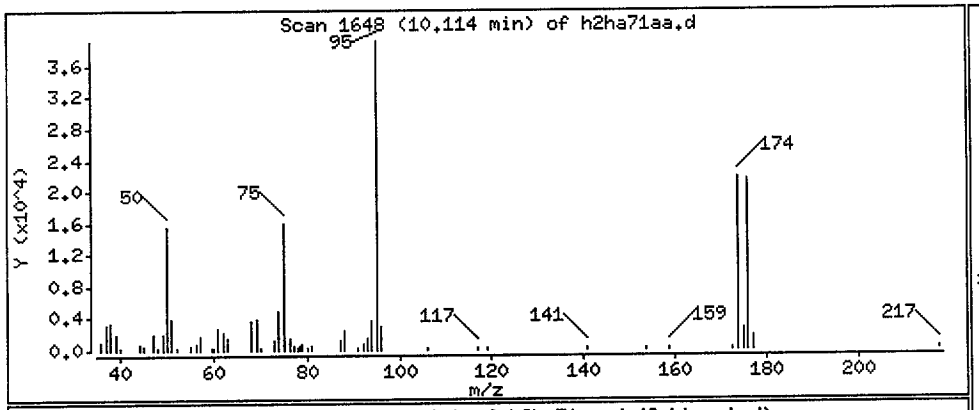
Operator: 22980

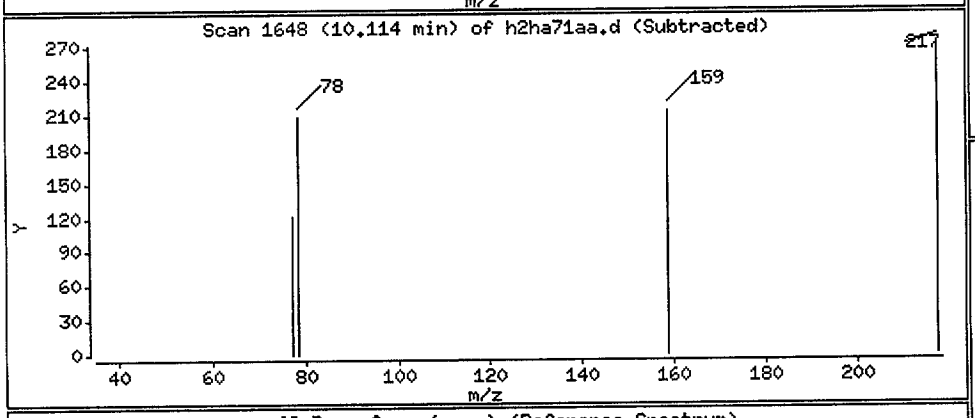
Column phase: J+W 624

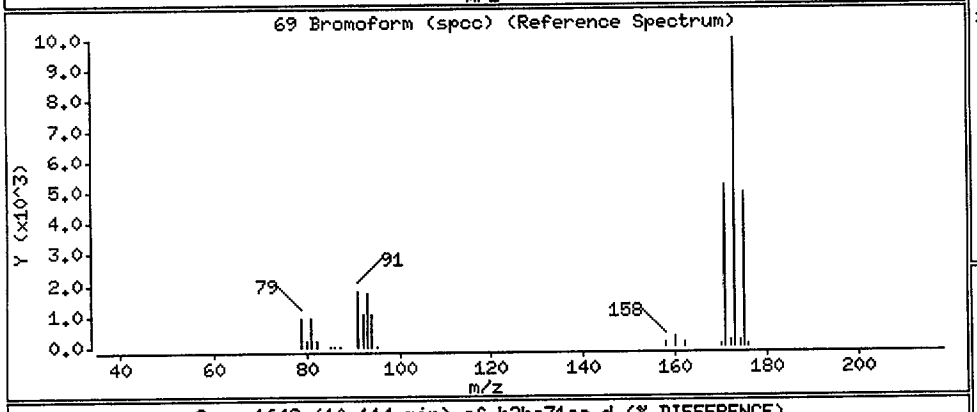
Column diameter: 0.18

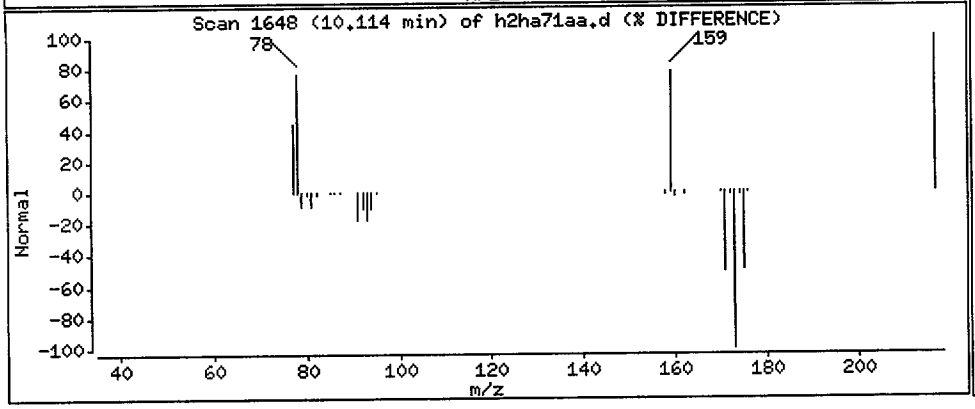
69 Bromoform (spcc)

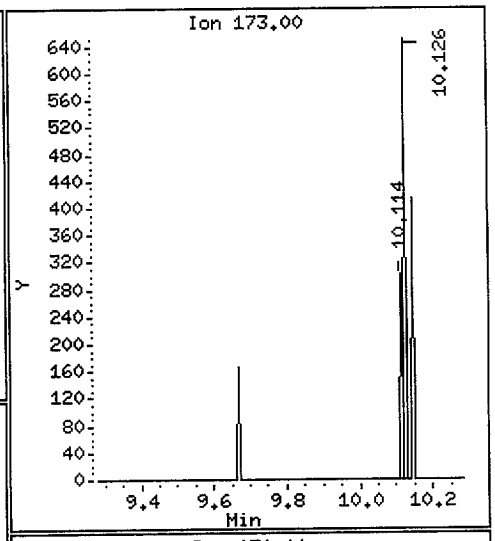
Concentration: 0.021036 ug

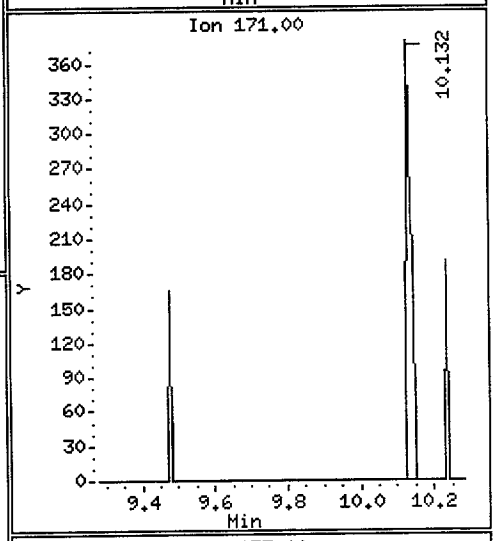


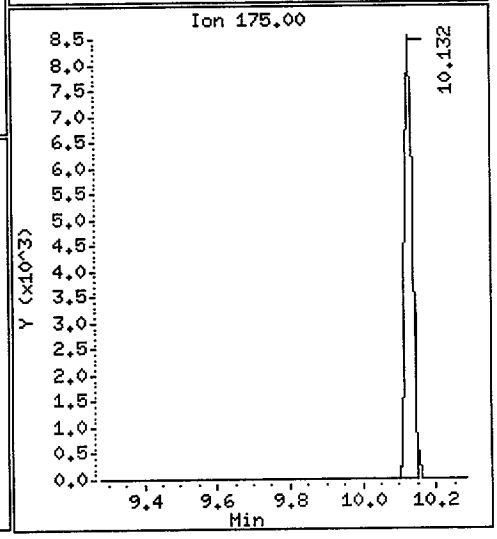












Data File: /chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HA71AA,1,0,,

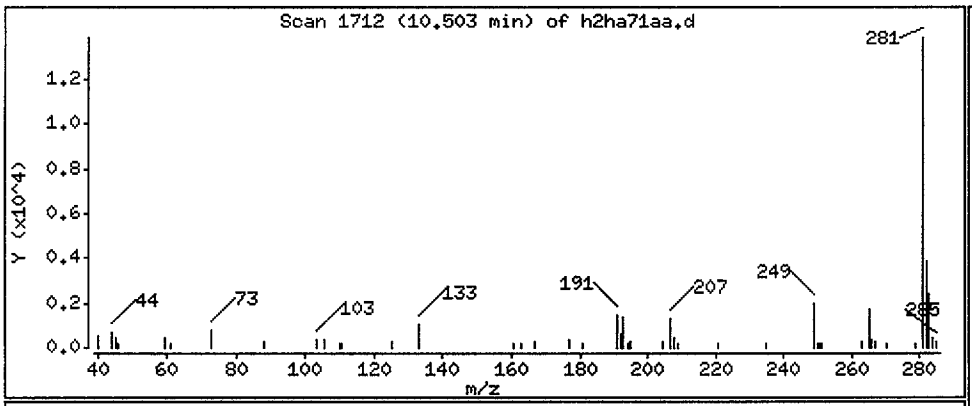
Operator: 22980

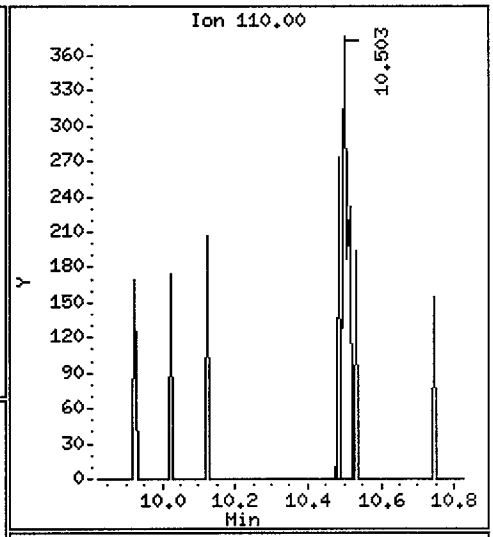
Column phase: J+W 624

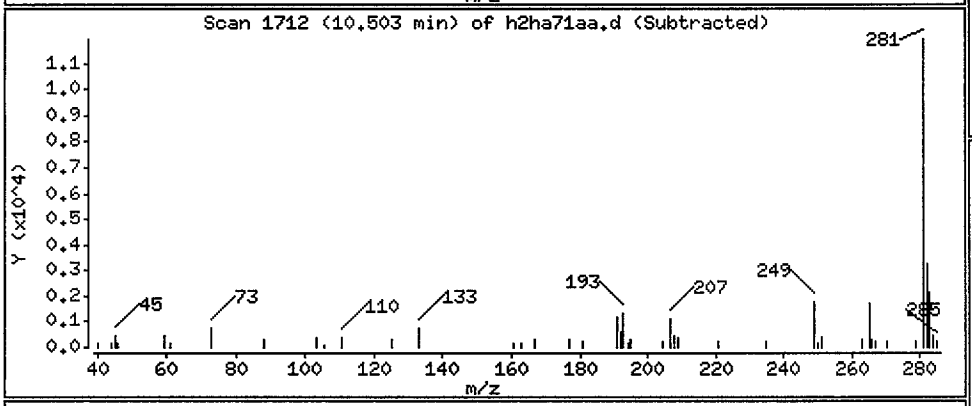
Column diameter: 0.18

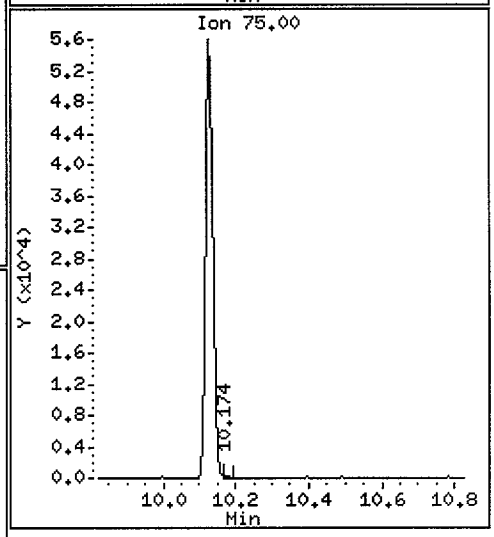
74 1,2,3-Trichloropropane

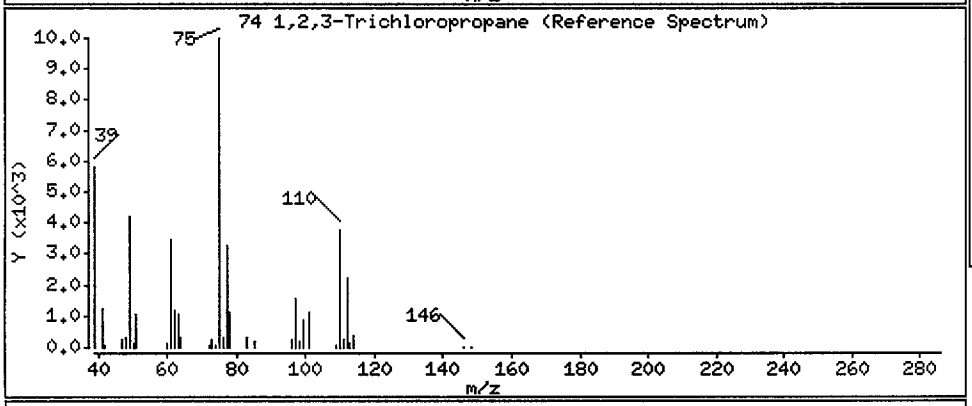
Concentration: 0.0061857 ug

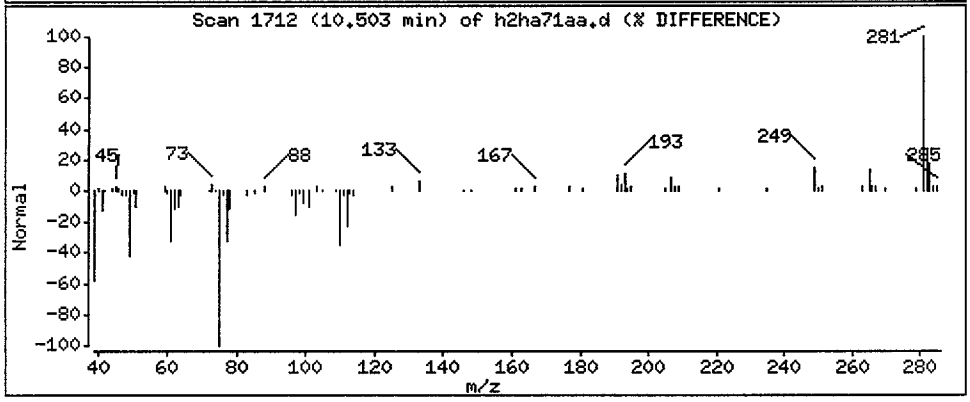












Data File: /var/chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Report Date: 14-Apr-2006 17:00

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2ha71aa.d
Lab Smp Id: H2HA71AA Client Smp ID: G-3015-R2-VOST TENA
Inj Date : 07-APR-2006 13:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HA71AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.673	895141	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.903	1586926	17.7282238	0.44320	5	NIST05.l	80	1

CO2

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2ha71aa.d

Date : 07-APR-2006 13:33

Client ID: G-3015-R2-VOST TENA

Instrument: mz.i

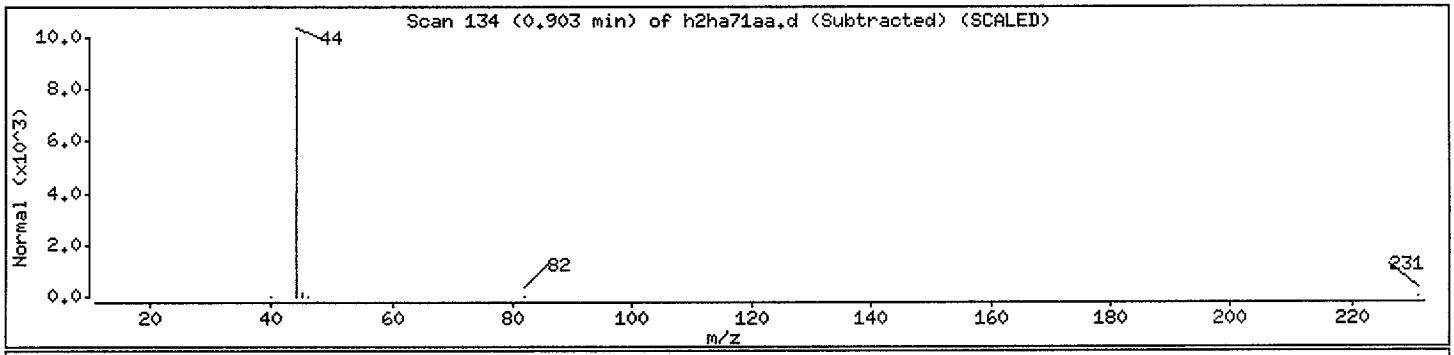
Sample Info: H2HA71AA,1,0,,

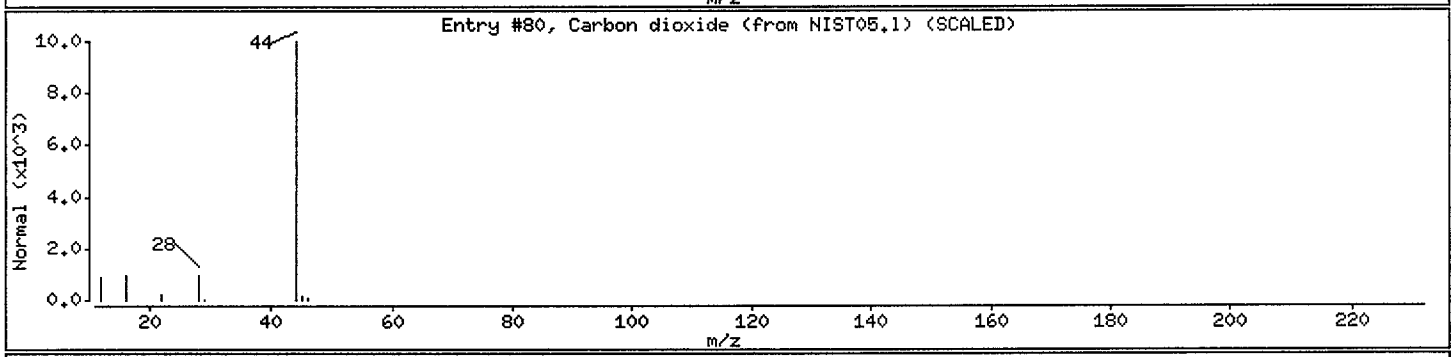
Operator: 22980

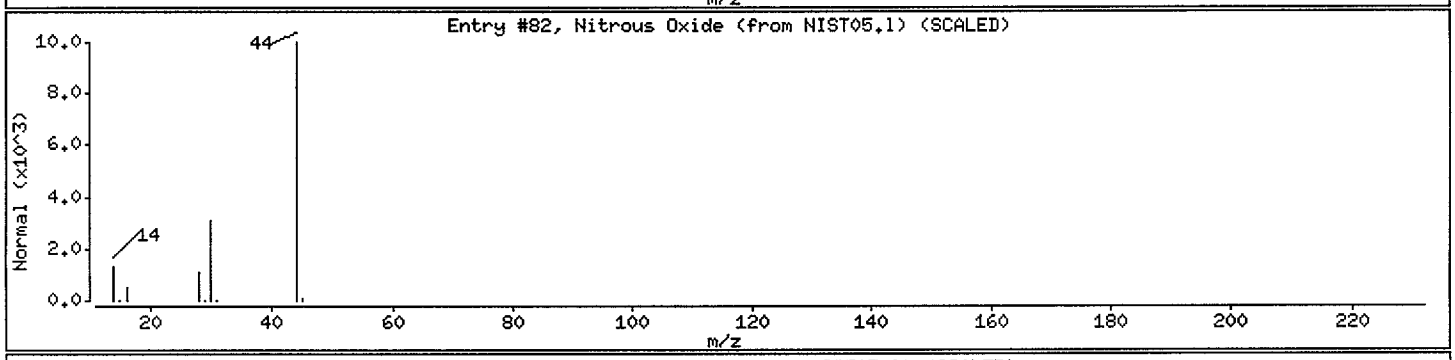
Column phase: J+W 624

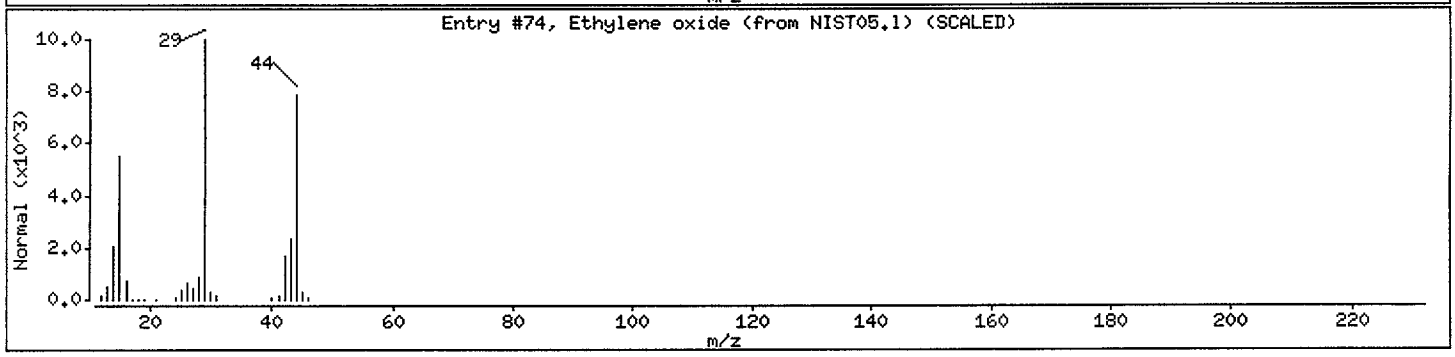
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.096 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.18**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.016 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	87	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-022 **Work Order #:** H2HCA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Lab Smp Id: H2HCA1AA Client Smp ID: G-3016-R2-VOST TENA
Inj Date : 07-APR-2006 13:09
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	825040	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.937	(1.000)	173149	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.489	11.492	(1.000)	226727	10.0000	
$ 4 Dibromofluoromethane	113	4.827	4.831	(0.851)	142478	10.7773	0.26943
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.924)	114548	10.0199	0.25050
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	711107	9.34699	0.23367
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	198674	8.68879	0.21722
11 Chloromethane (spcc)	50	1.123	1.126	(0.198)	362366	7.27195	0.18180
15 Bromomethane	94	1.421	1.418	(0.250)	3363	1.21642	0.030411
22 Acetone	43	2.114	2.123	(0.373)	684	3.39055	0.084764 - See reprint for (m)
23 *Iodomethane	142	2.187	2.184	(0.386)	2312	0.62981	0.015745
34 *Vinyl Acetate	86	3.148	3.407	(0.555)	136	0.12377	0.~~0030942~~
39 *THF	42	4.548	4.532	(0.802)	790	0.40368	0.010092
45 1,2-Dichloroethane	62	5.667	5.335	(0.999)	14295	0.82976	~~0.020744~~
53 4-Methyl-2-pentanone	43	7.461	7.386	(1.315)	5141	0.71355	~~0.017839~~
54 Toluene (ccc)	91	7.534	7.532	(0.843)	6840	0.06942	0.0017354

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
55 trans-1,3-Dichloropropene	75	8.125	7.793	(0.909)	2018	0.75344	0.018836

DLW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 14-Apr-2006 16:40

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Lab Smp Id: H2HCA1AA Client Smp ID: G-3016-R2-VOST TENA
Inj Date : 07-APR-2006 13:09
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	825040	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.937	(1.000)	173149	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.489	11.492	(1.000)	226727	10.0000	
$ 4 Dibromofluoromethane	113	4.827	4.831	(0.851)	142478	10.7773	0.26943
$ 5 1,2-Dichloroethane-d4	65	5.241	5.238	(0.924)	114548	10.0199	0.25050
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	711107	9.34700	0.23367
$ 7 4-Bromofluorobenzene	95	10.126	10.129	(0.881)	198674	8.68881	0.21722
11 Chloromethane (spcc)	50	1.123	1.126	(0.198)	362366	7.27195	0.18180
15 Bromomethane	94	1.421	1.418	(0.250)	3363	1.21637	0.030409
22 Acetone	43	2.132	2.123	(0.376)	2970	3.84775	0.096194 (MH)
23 *Iodomethane	142	2.187	2.184	(0.386)	2312	0.62979	0.015745
39 *THF	42	4.548	4.532	(0.802)	790	0.40357	0.010089
54 Toluene (ccc)	91	7.534	7.532	(0.843)	6840	0.06941	0.0017353

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 14-Apr-2006 16:40

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hca1aa.d
Lab Smp Id: H2HCA1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3016-R2-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	825040	-13.39
2 Chlorobenzene-d5	164101	82050	328202	173149	5.51
3 1,4 Dichlorobenze	204390	102195	408780	226727	10.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.06
2 Chlorobenzene-d5	8.94	8.44	9.44	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.03

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 07-Apr-2006 13:27

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCA1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3016-R2-VOST TENA
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

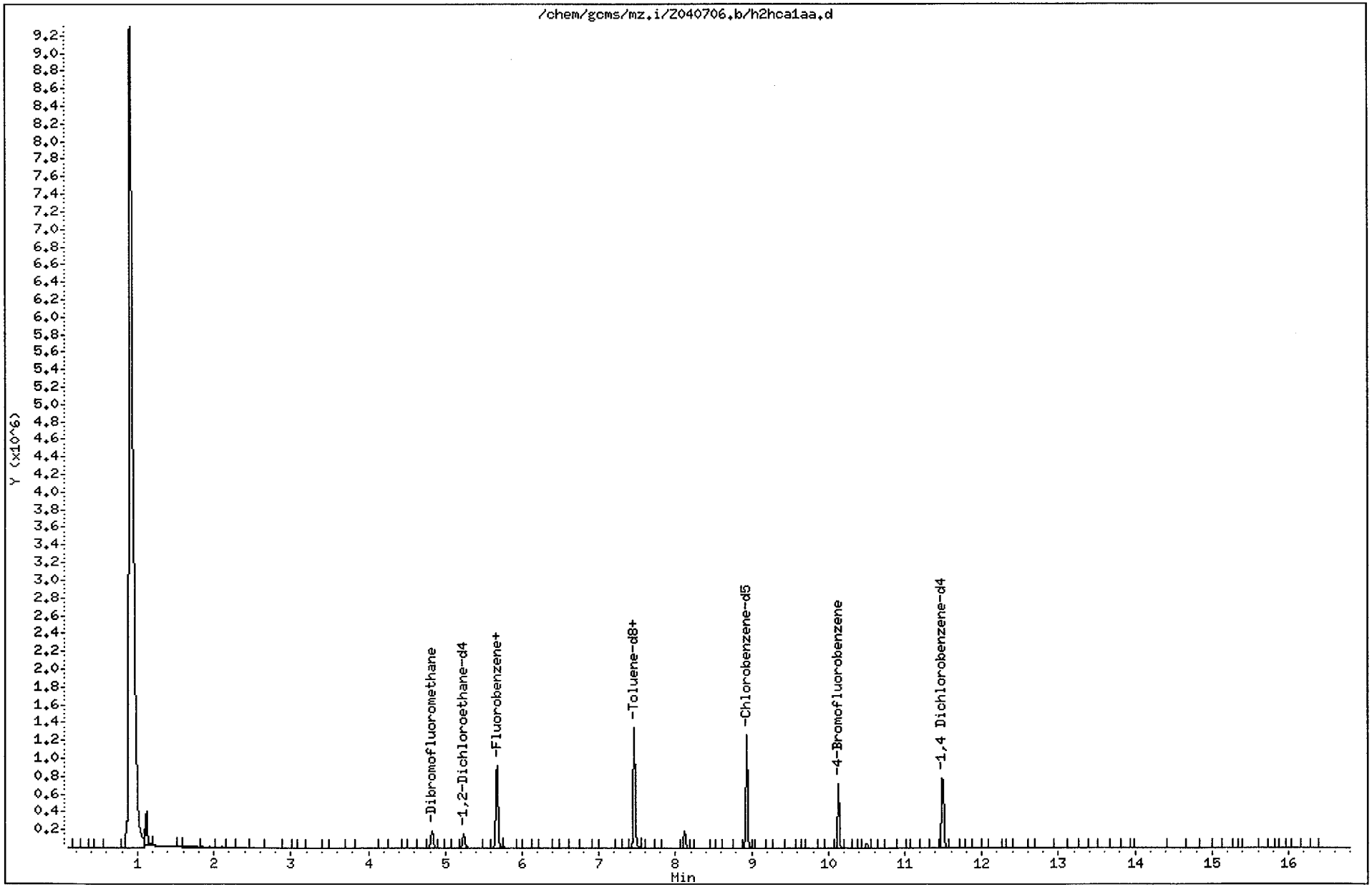
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26943	107.77	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25050	100.20	50-150
$ 6 Toluene-d8	0.25000	0.23367	93.47	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21722	86.89	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Date : 07-APR-2006 13:09
Client ID: G-3016-R2-VOST TENA
Sample Info: H2HCA1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

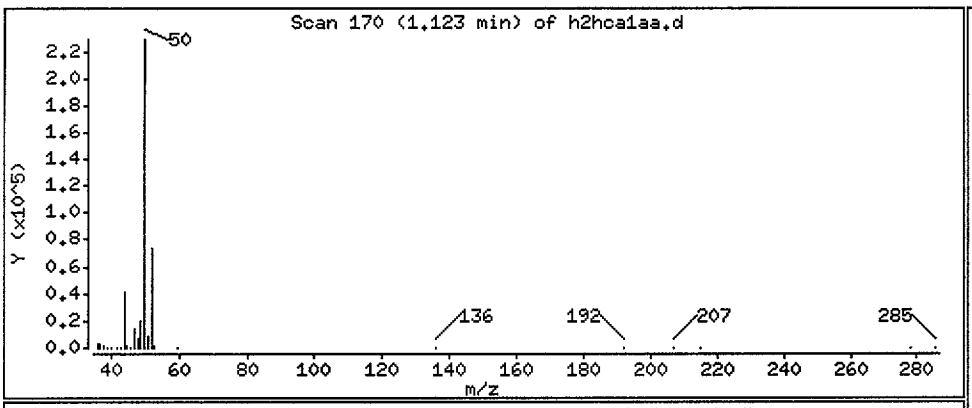
Operator: 22980

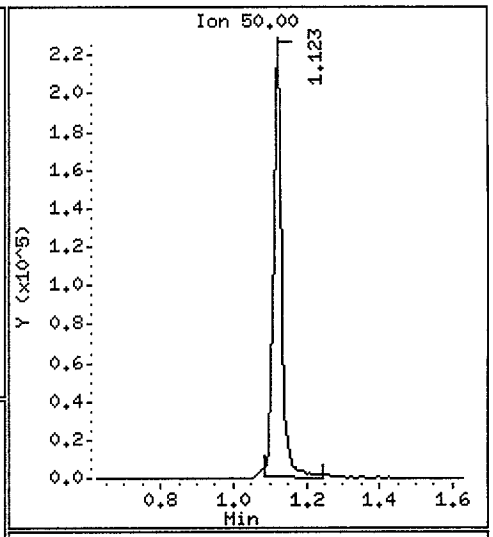
Column phase: J+W 624

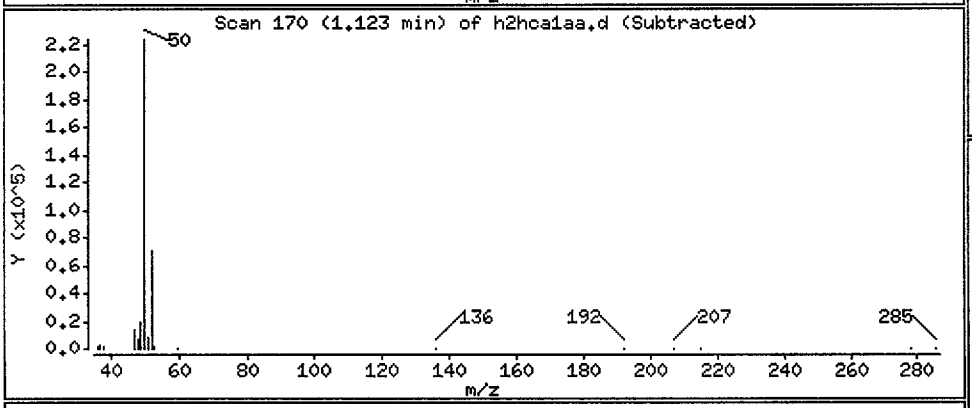
Column diameter: 0.18

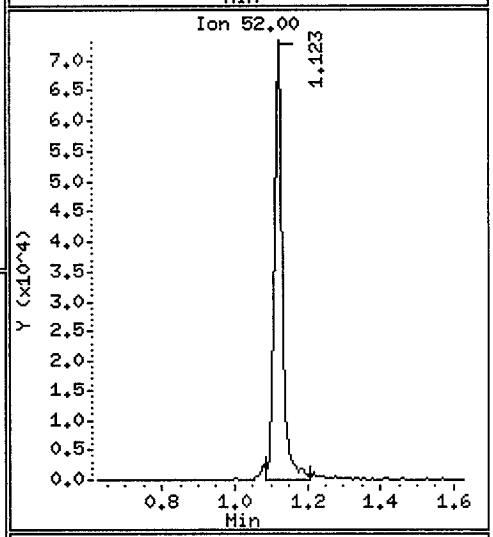
11 Chloromethane (spcc)

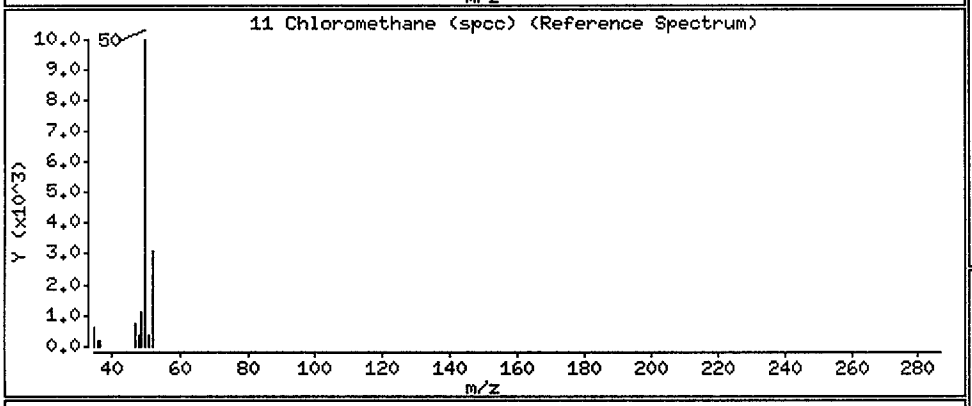
Concentration: 0.18180 ug

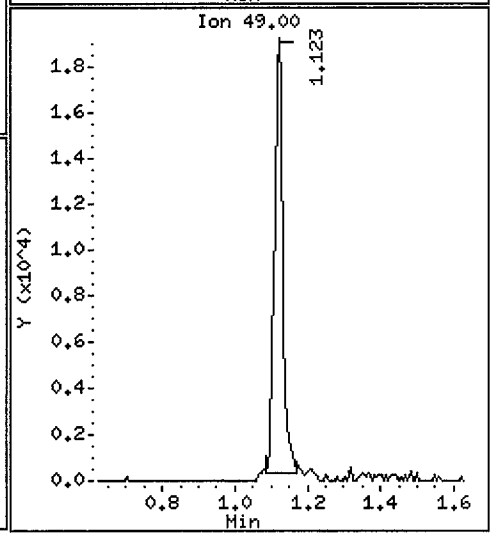


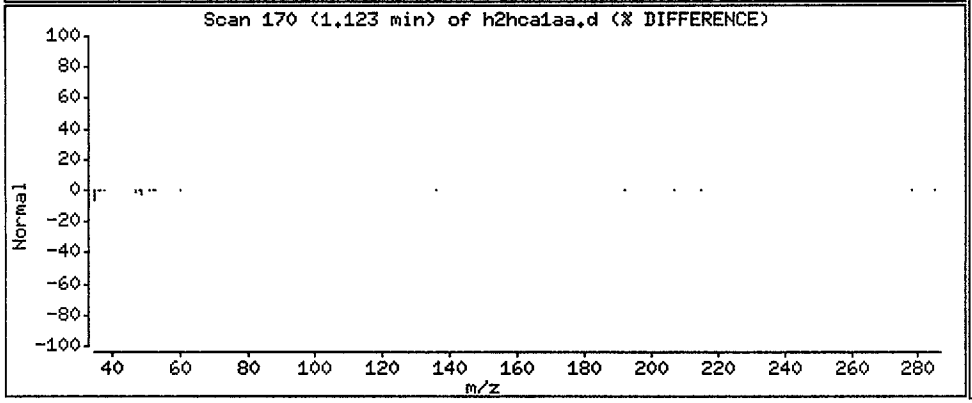












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

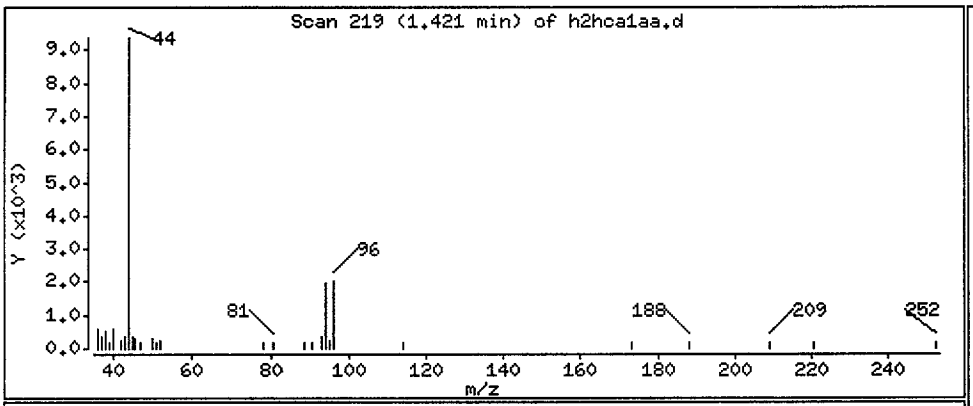
Operator: 22980

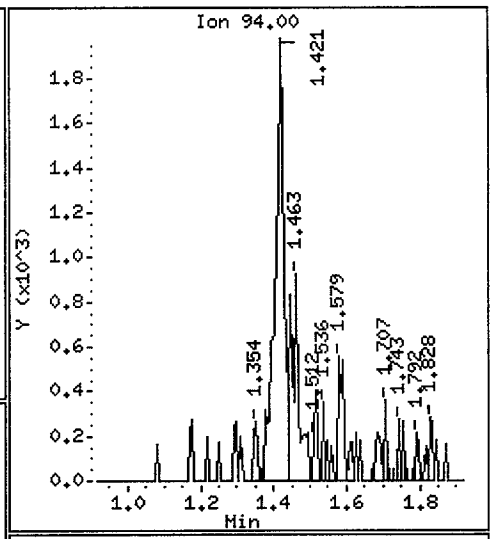
Column phase: J+W 624

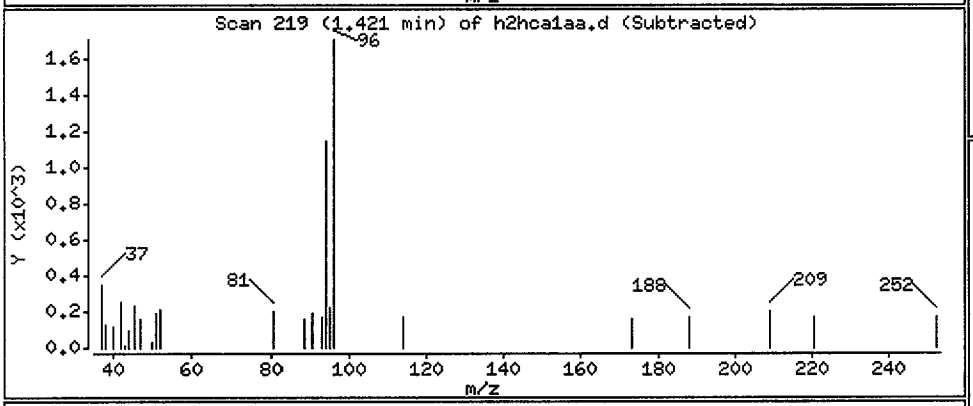
Column diameter: 0.18

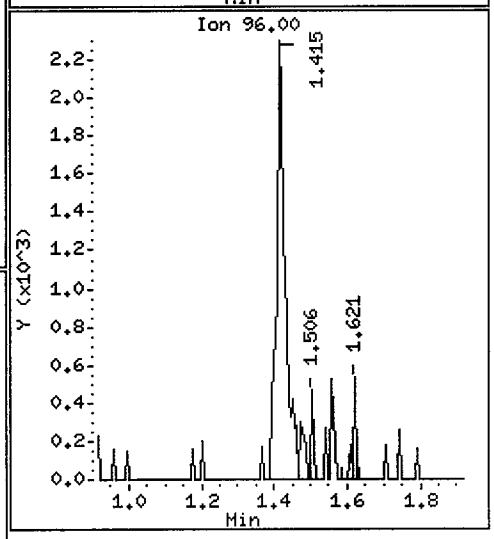
15 Bromomethane

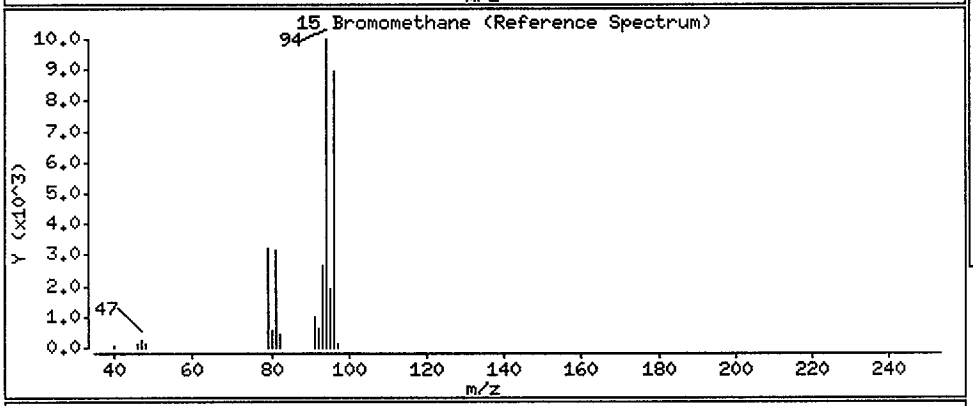
Concentration: 0.030411 ug

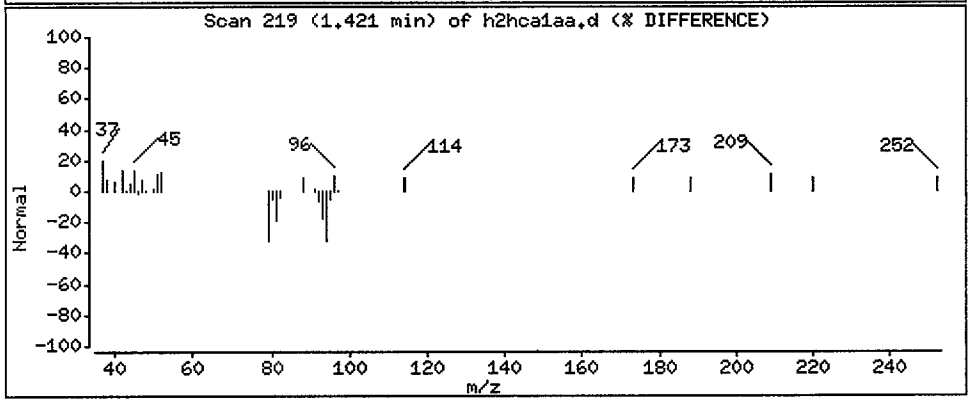












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

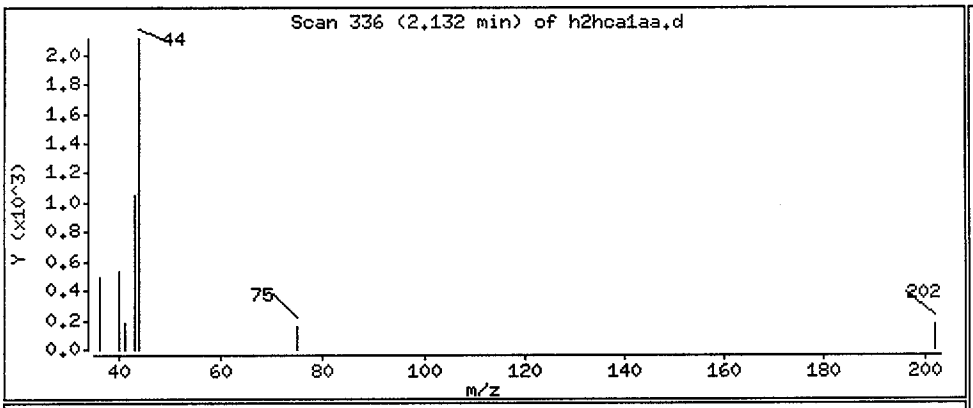
Operator: 22980

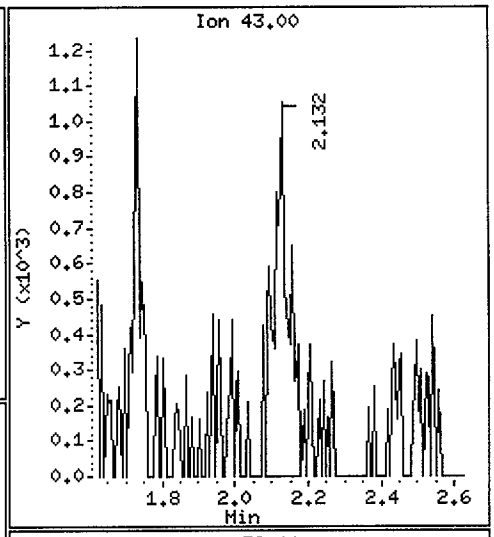
Column phase: J+W 624

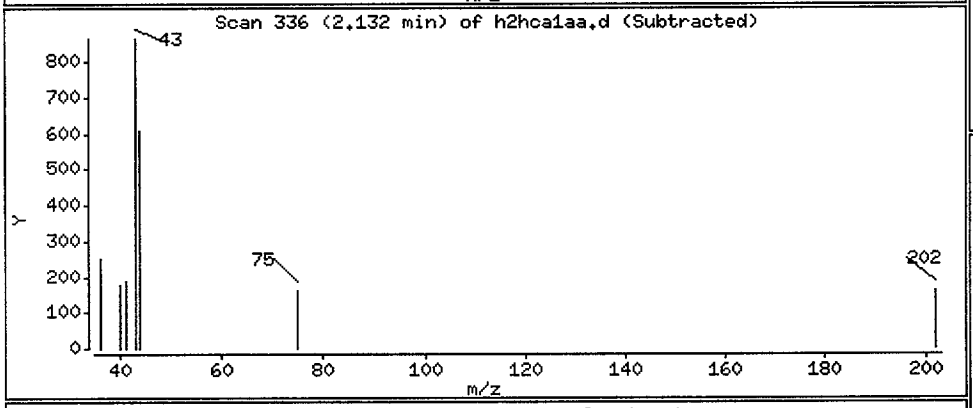
Column diameter: 0.18

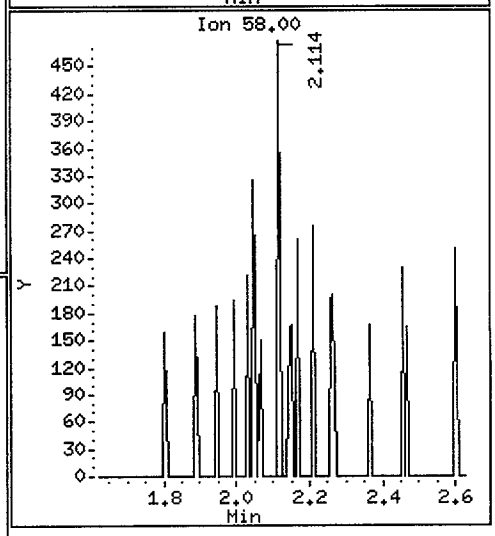
22 Acetone

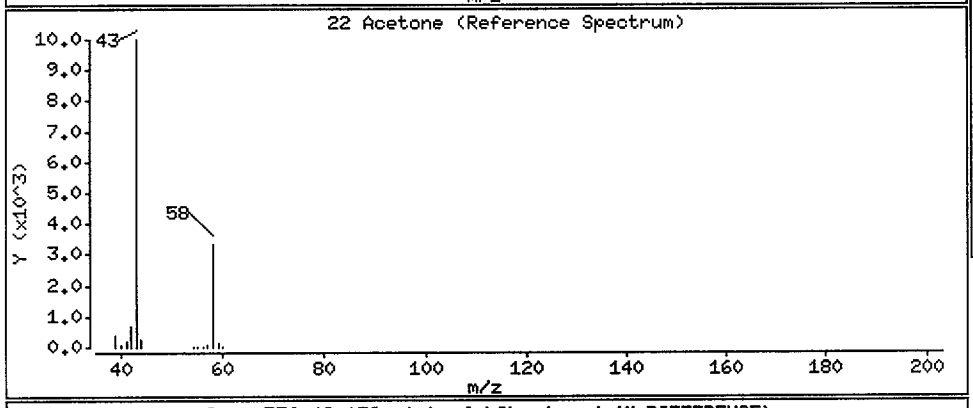
Concentration: 0.096194 ug

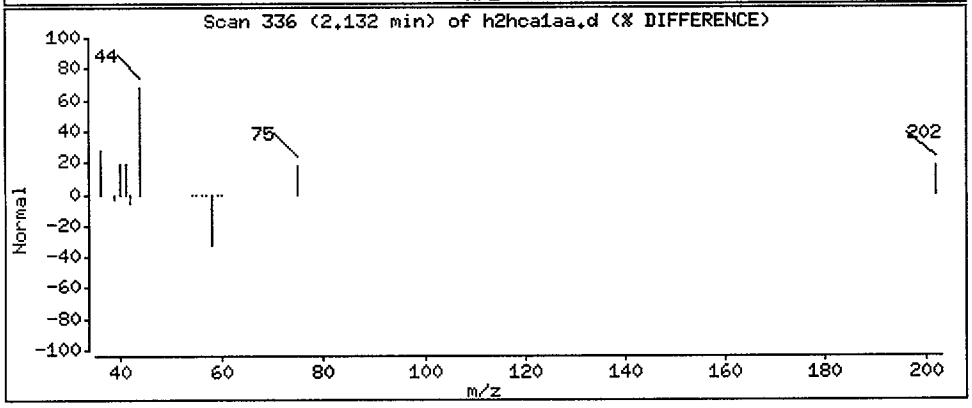












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

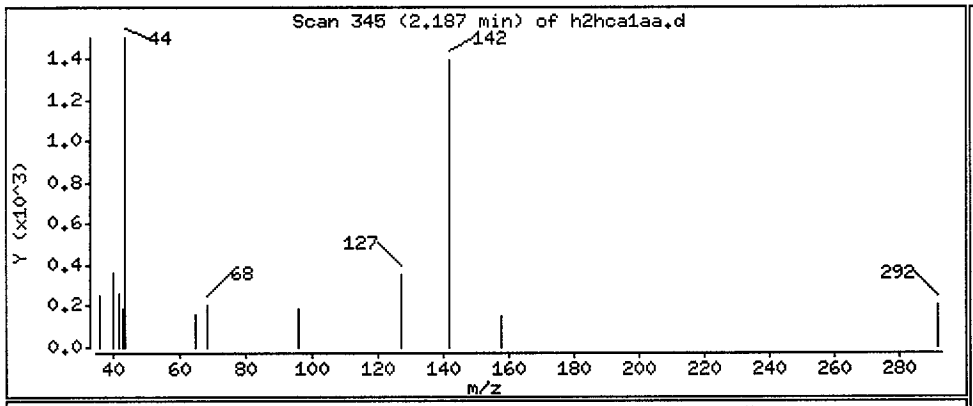
Operator: 22980

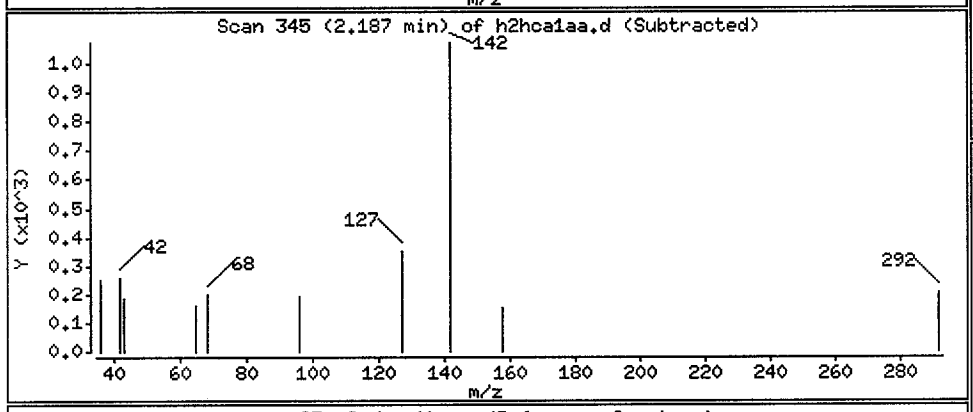
Column phase: J+W 624

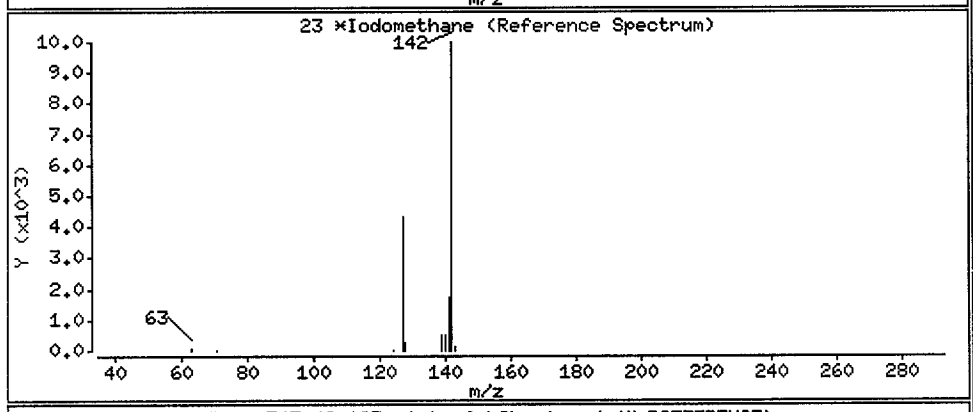
Column diameter: 0.18

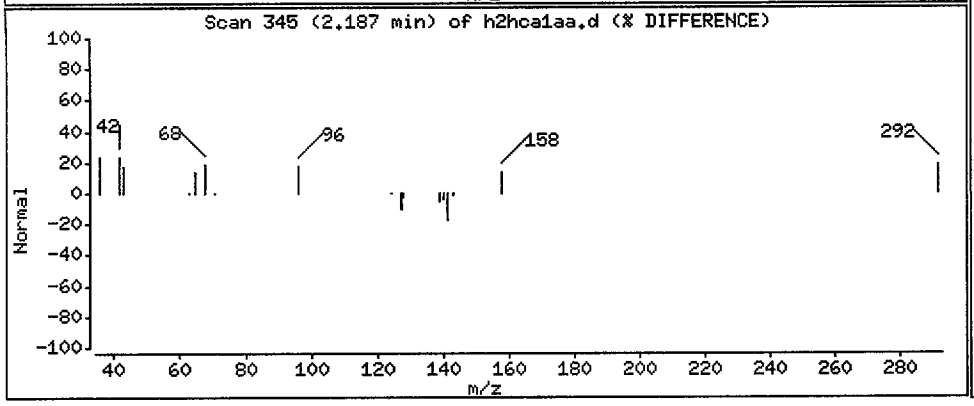
23 *Iodomethane

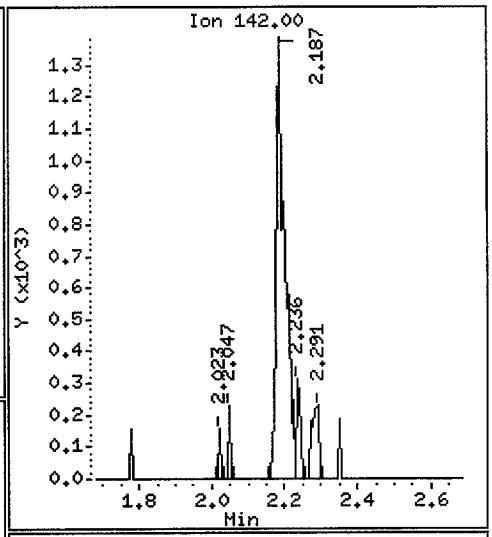
Concentration: 0.015745 ug

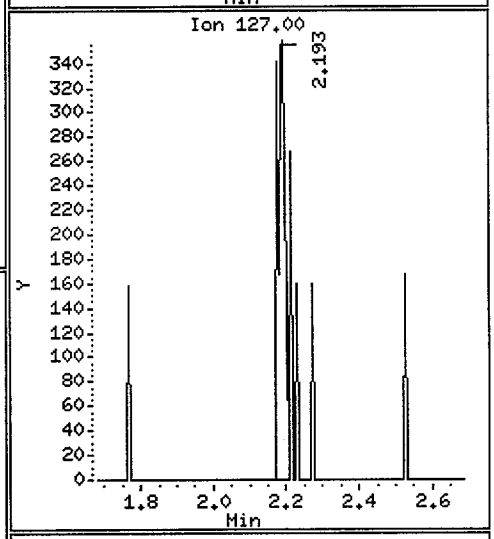


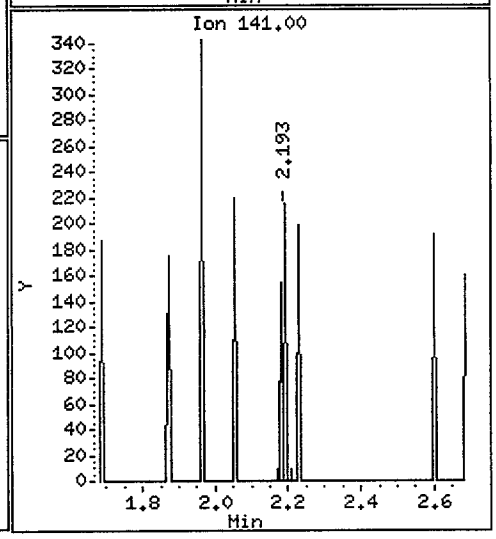












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

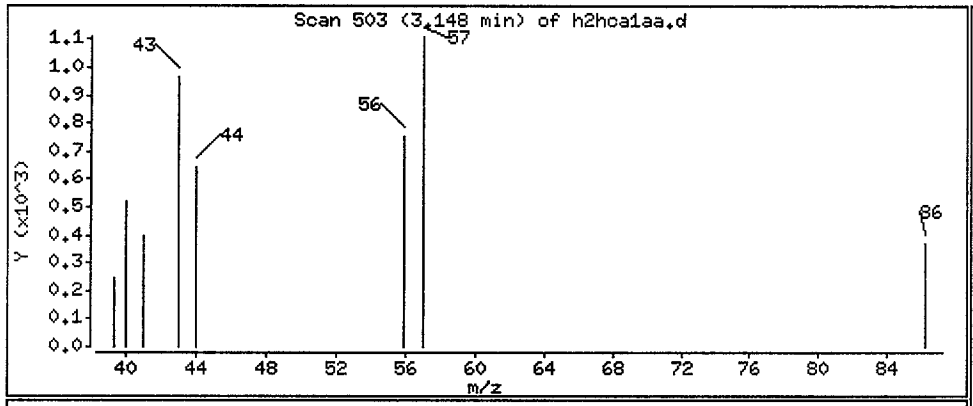
Operator: 22980

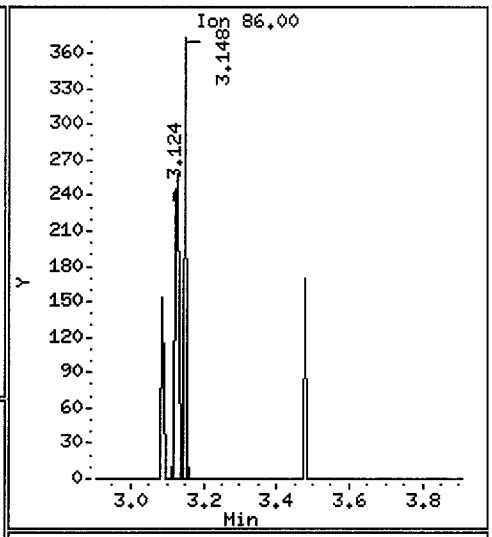
Column phase: J+W 624

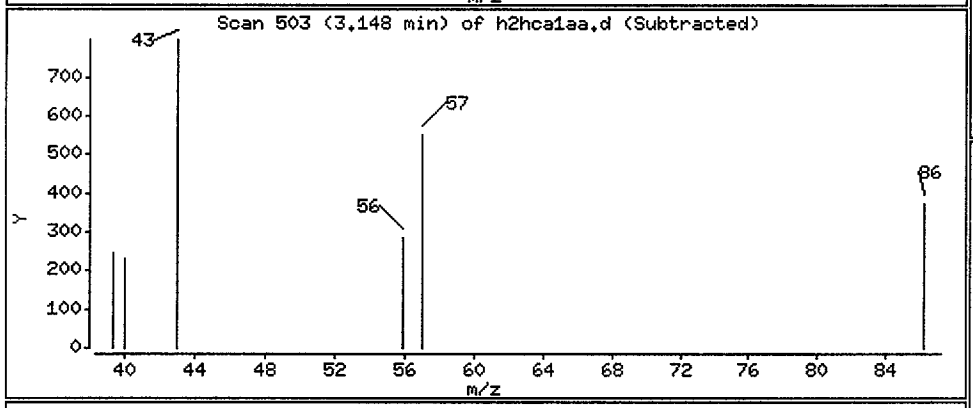
Column diameter: 0.18

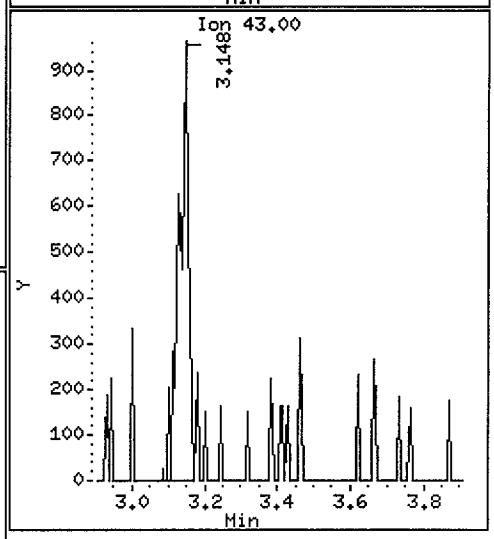
34 *Vinyl Acetate

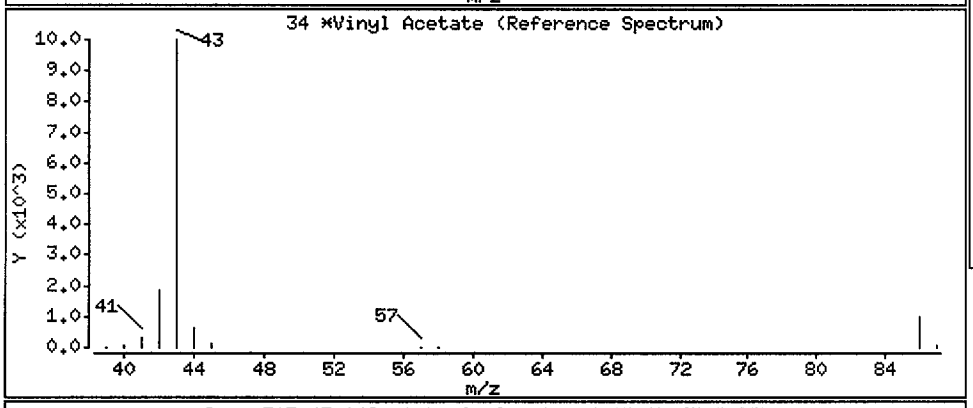
Concentration: 0.0030942 ug

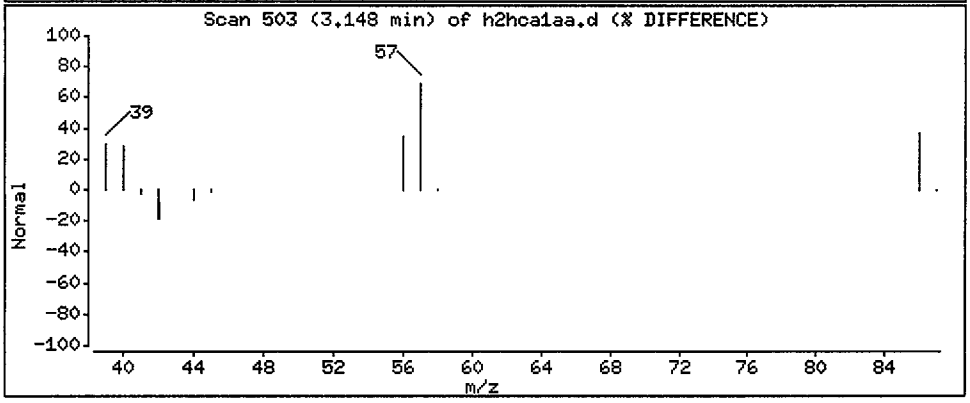












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

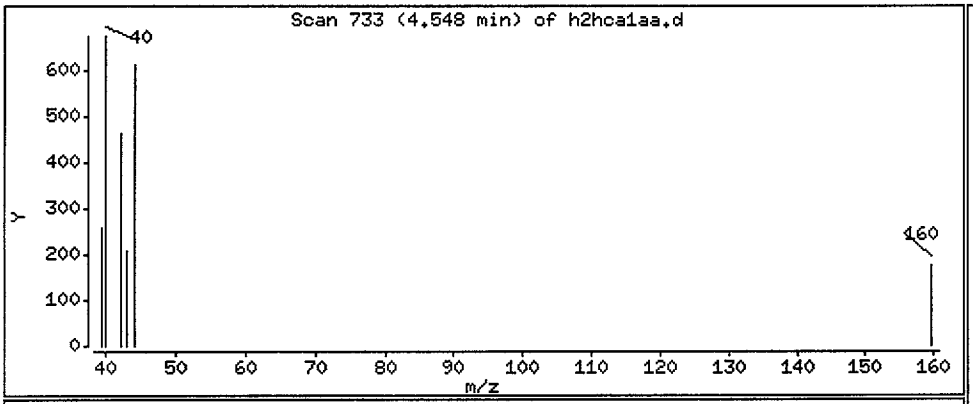
Operator: 22980

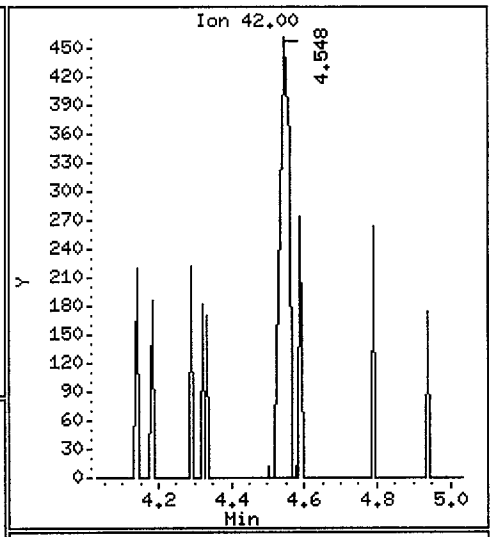
Column phase: J+W 624

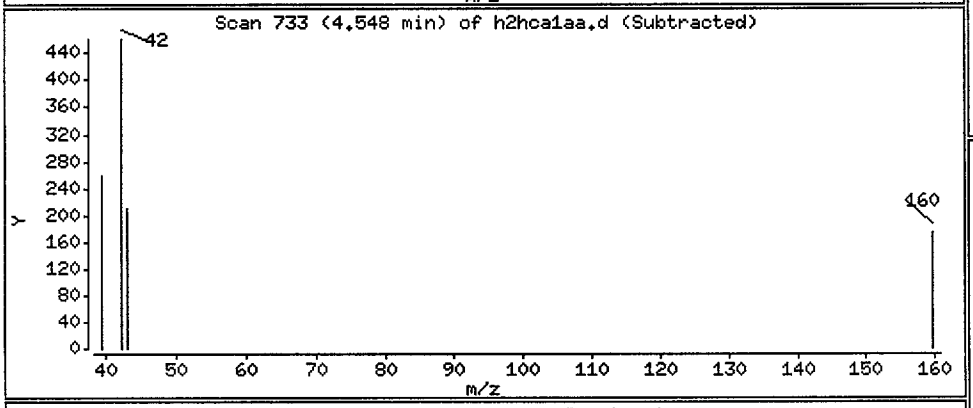
Column diameter: 0.18

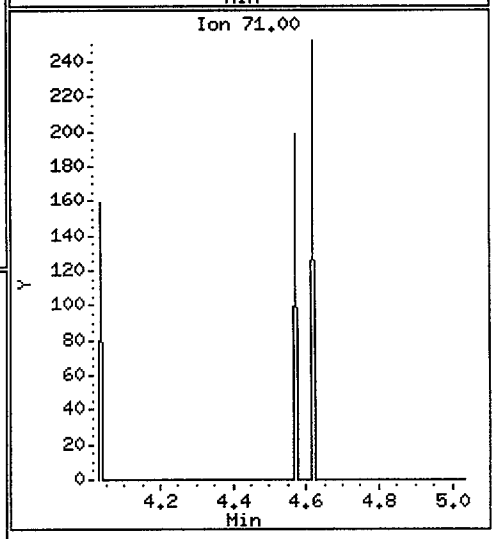
39 *THF

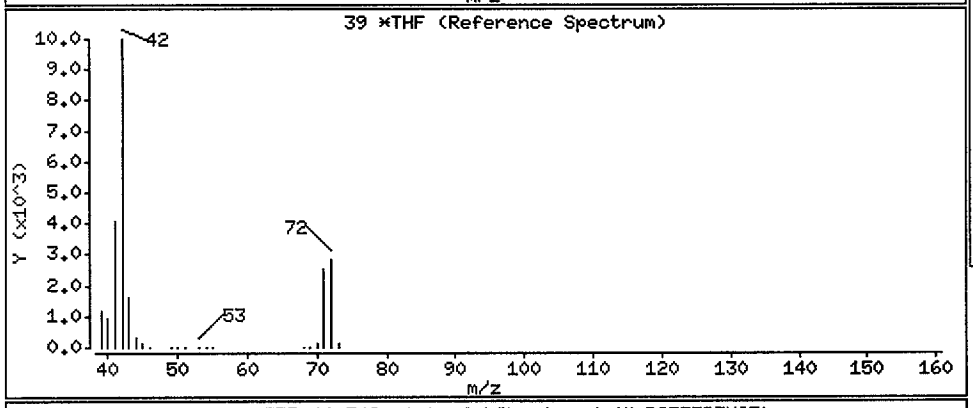
Concentration: 0.010092 ug

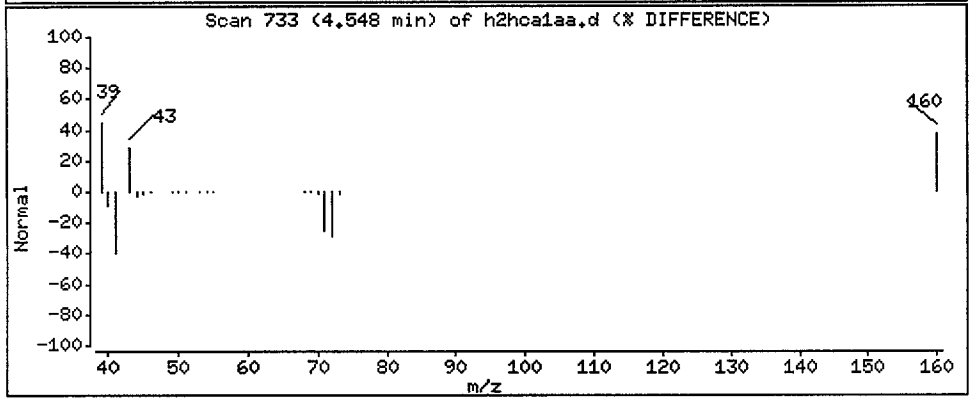












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

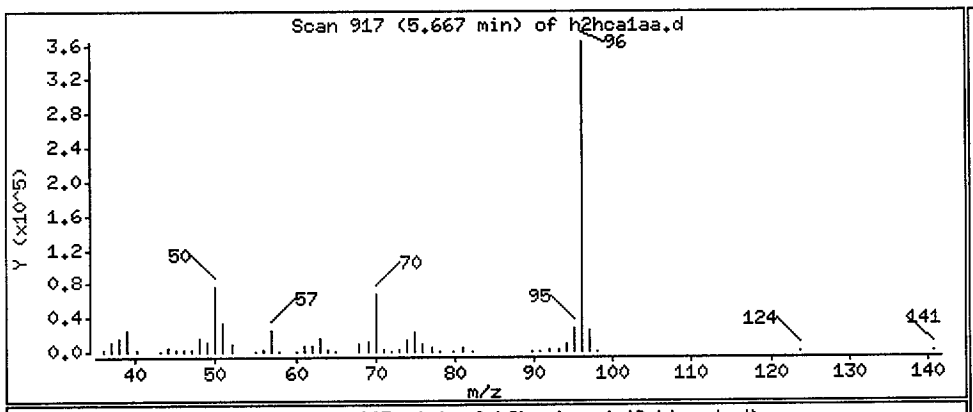
Operator: 22980

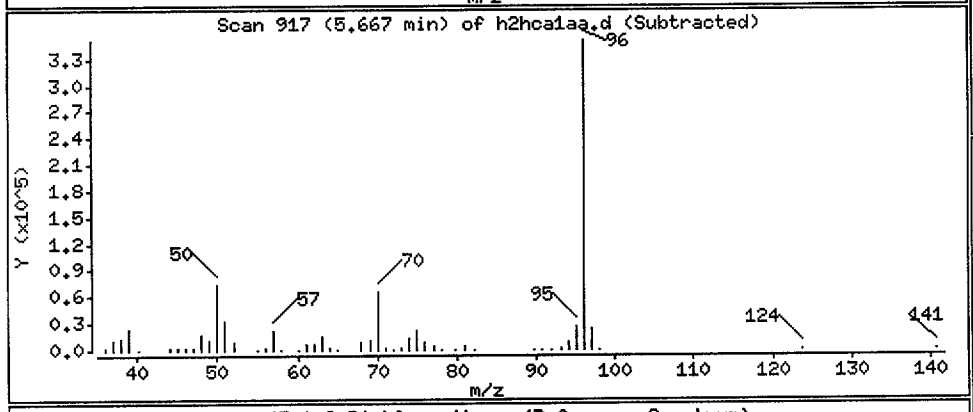
Column phase: J+W 624

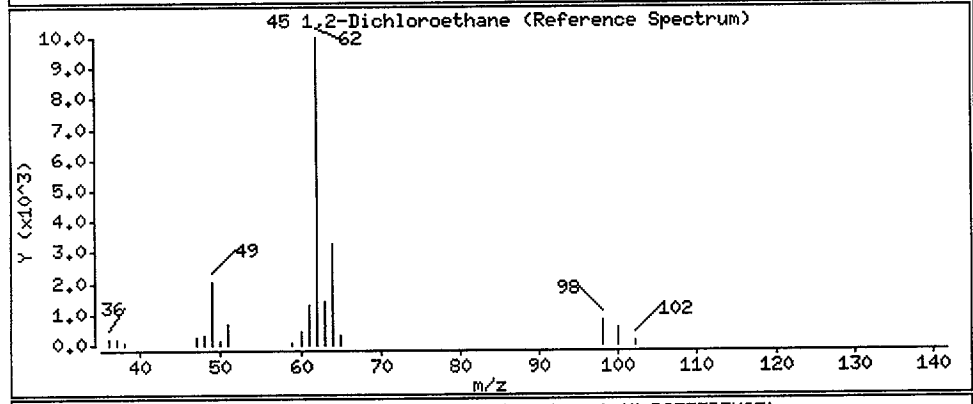
Column diameter: 0.18

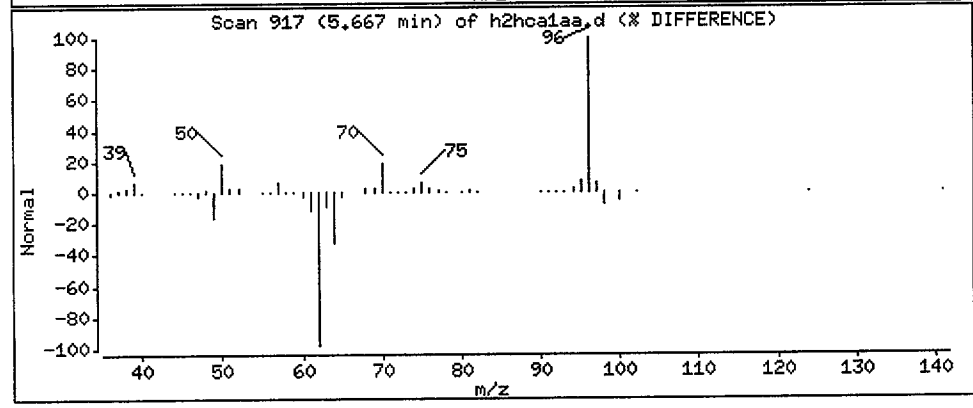
45 1,2-Dichloroethane

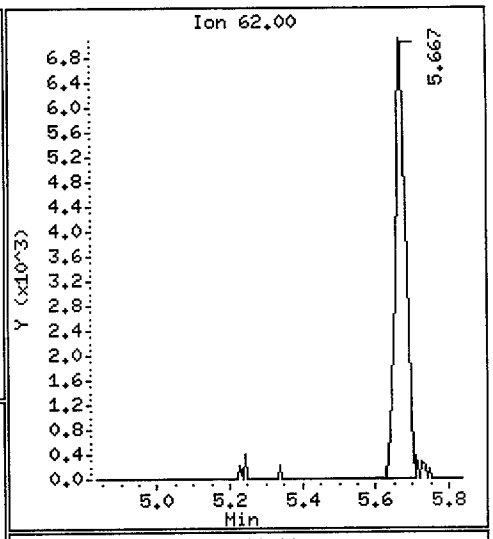
Concentration: 0.020744 ug

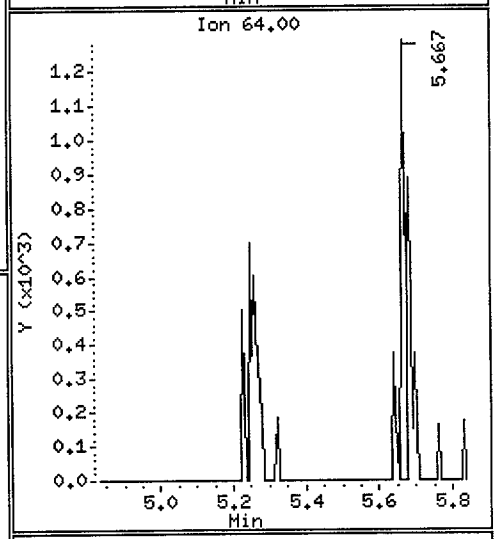


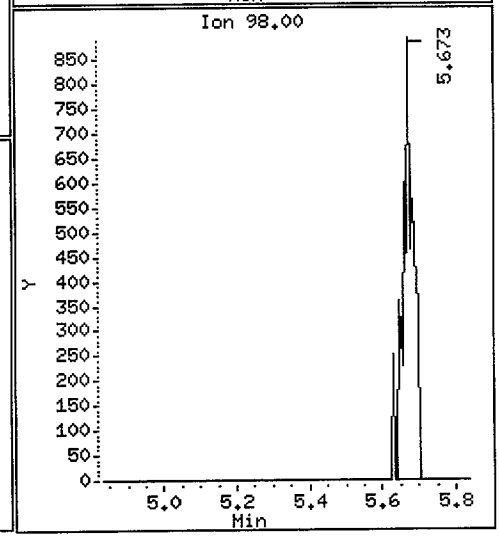












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

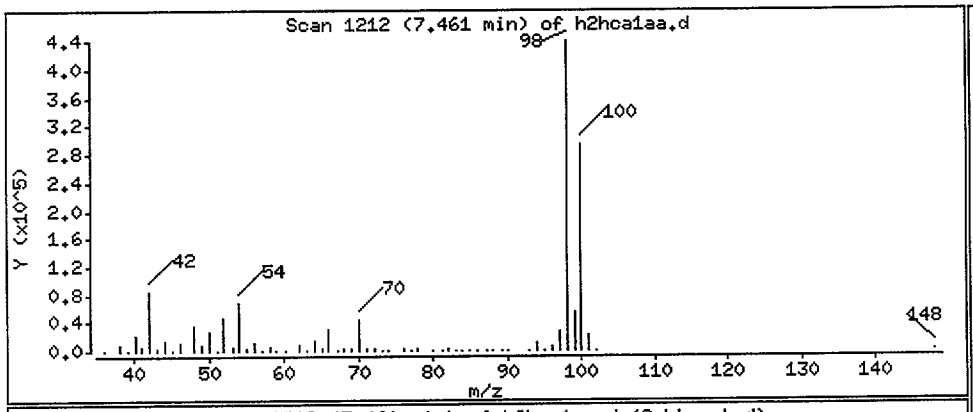
Operator: 22980

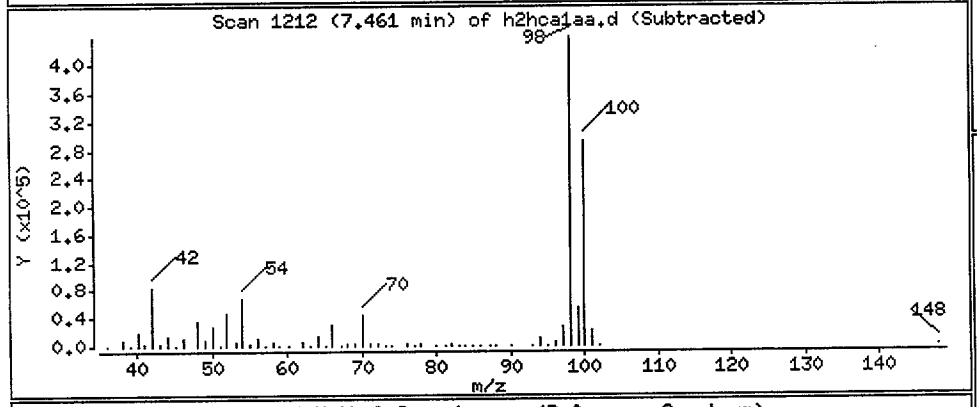
Column phase: J+W 624

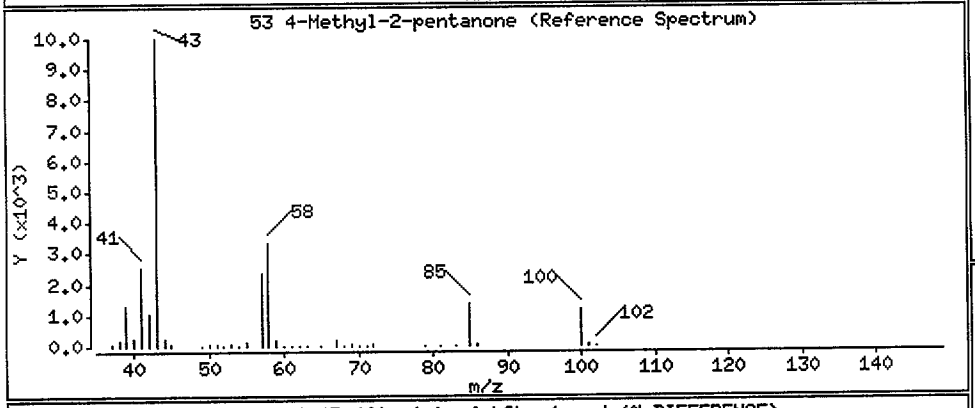
Column diameter: 0.18

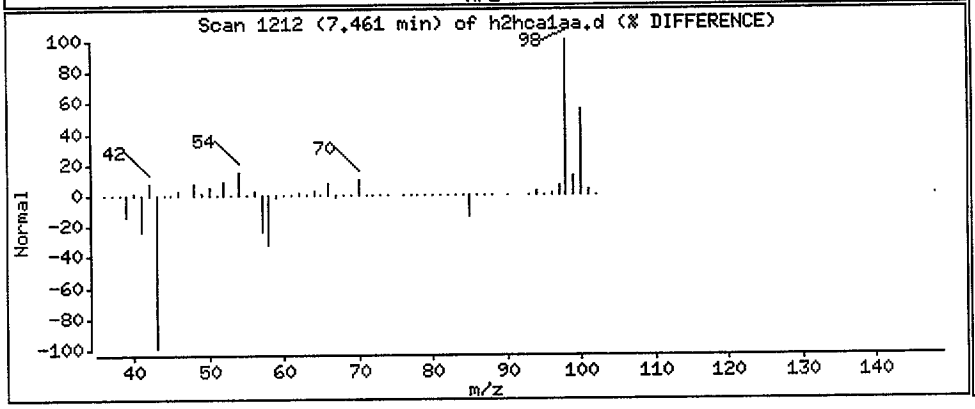
53 4-Methyl-2-pentanone

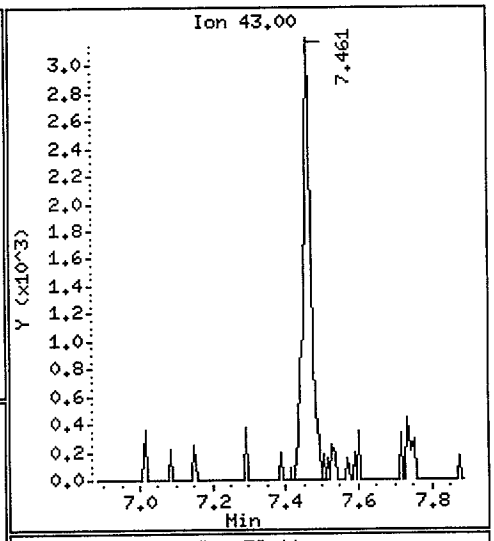
Concentration: 0.017839 ug

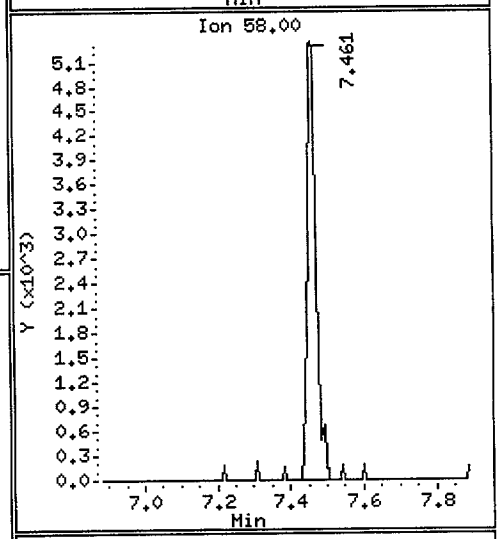


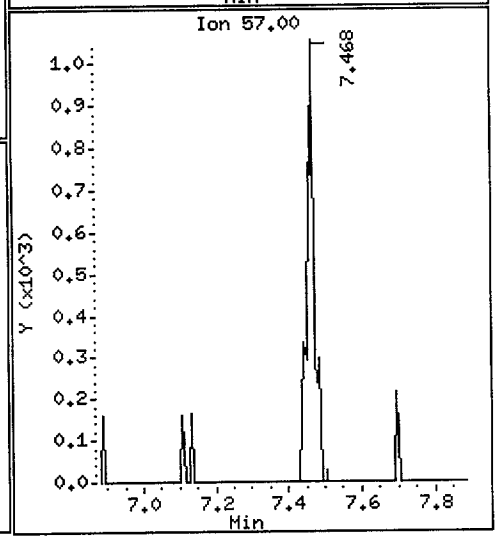












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

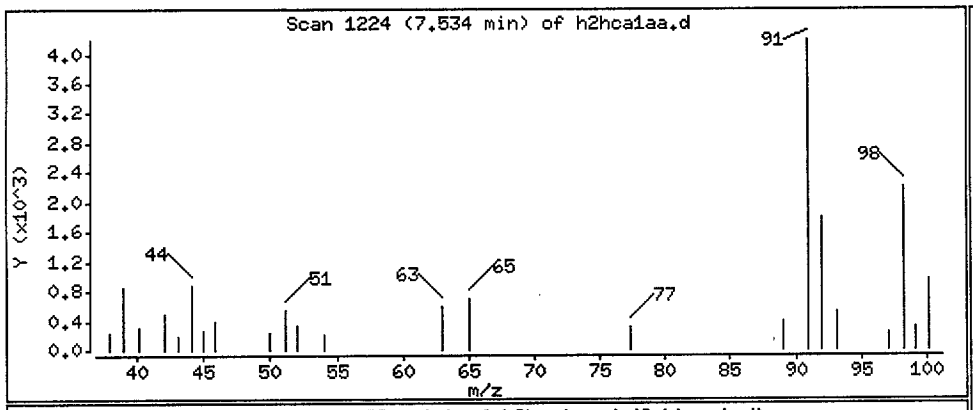
Operator: 22980

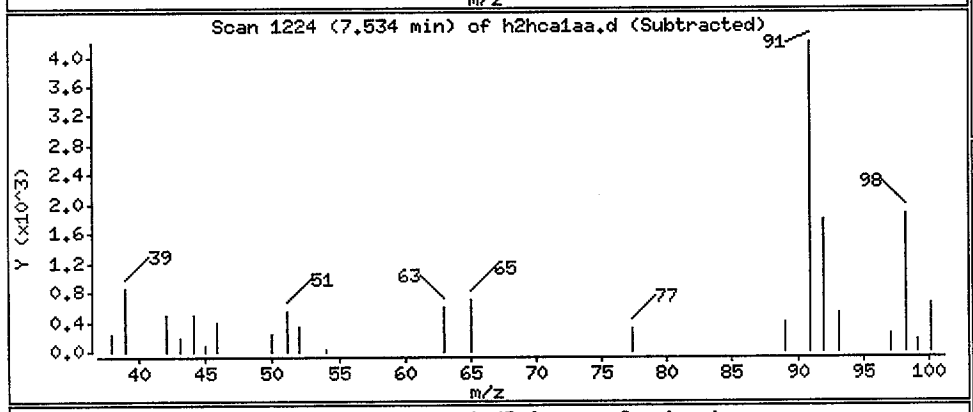
Column phase: J+W 624

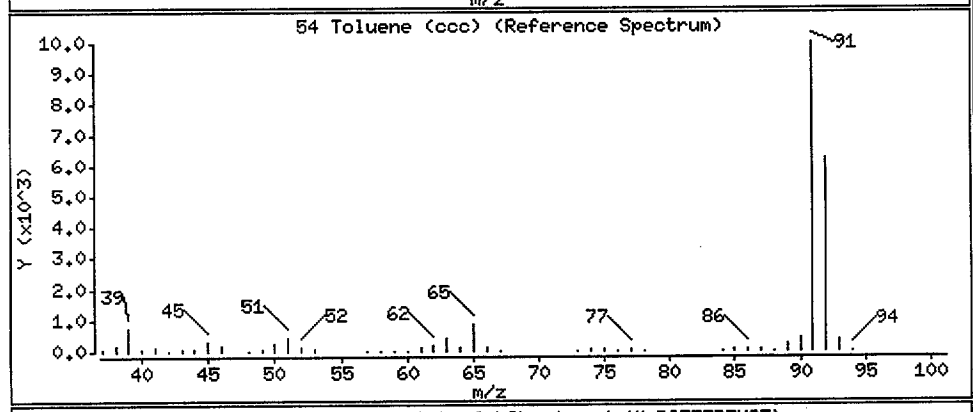
Column diameter: 0.18

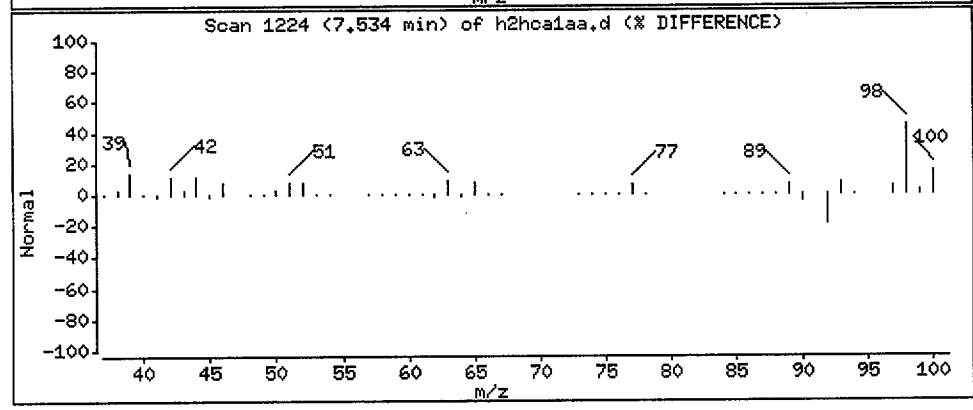
54 Toluene (ccc)

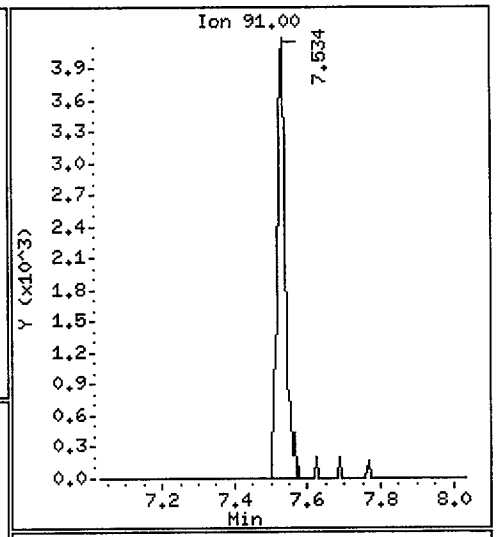
Concentration: 0.0017354 ug

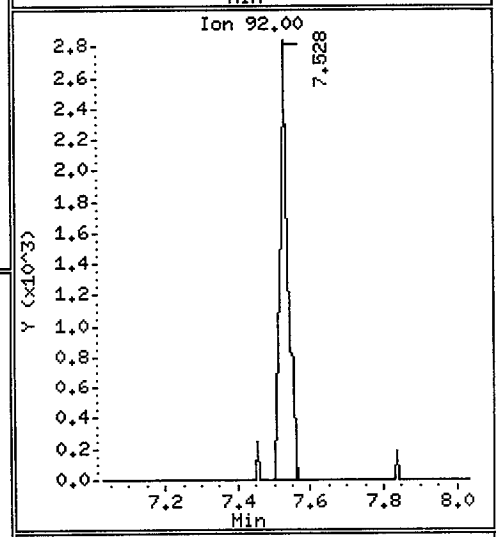


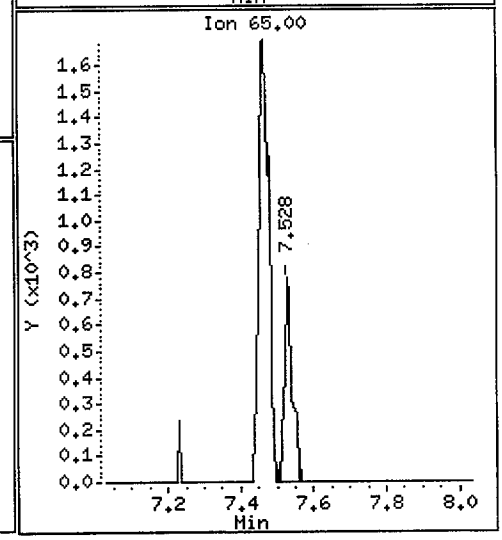












Data File: /chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

Sample Info: H2HCA1AA,1,0,,

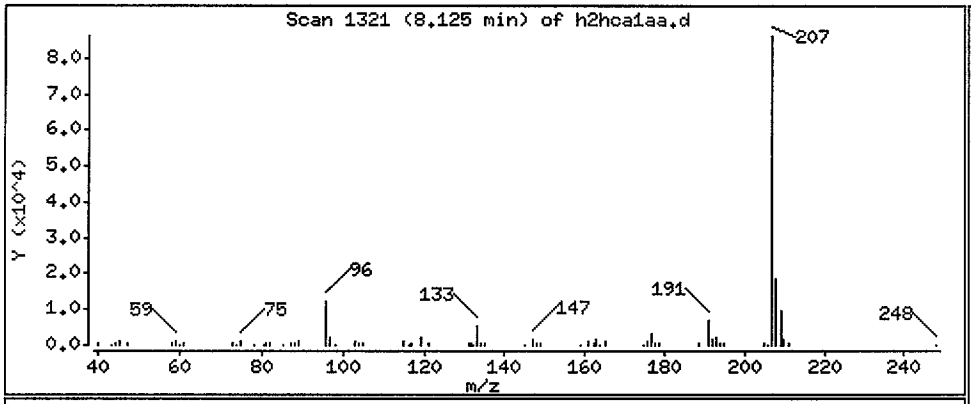
Operator: 22980

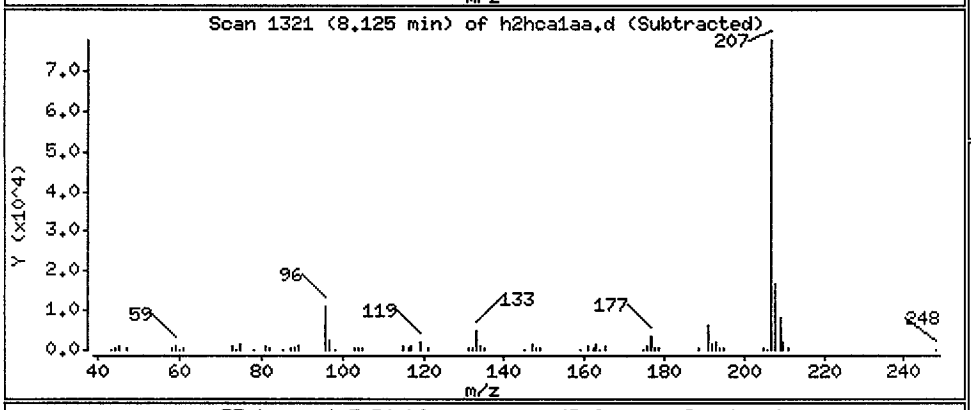
Column phase: J+W 624

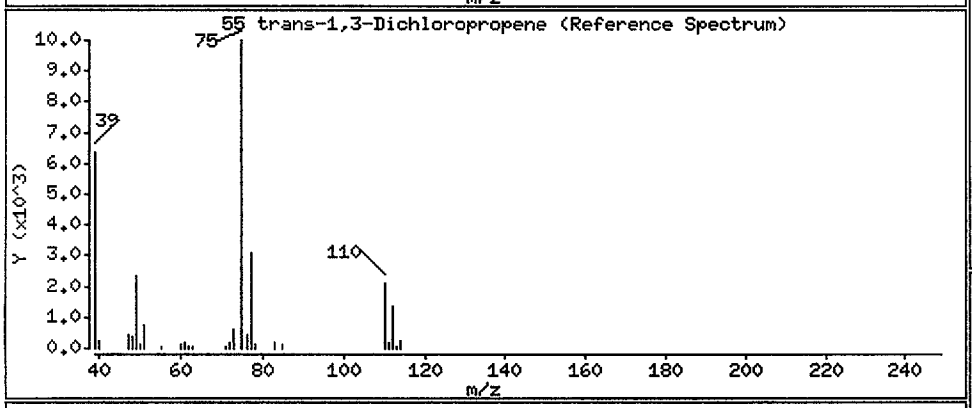
Column diameter: 0.18

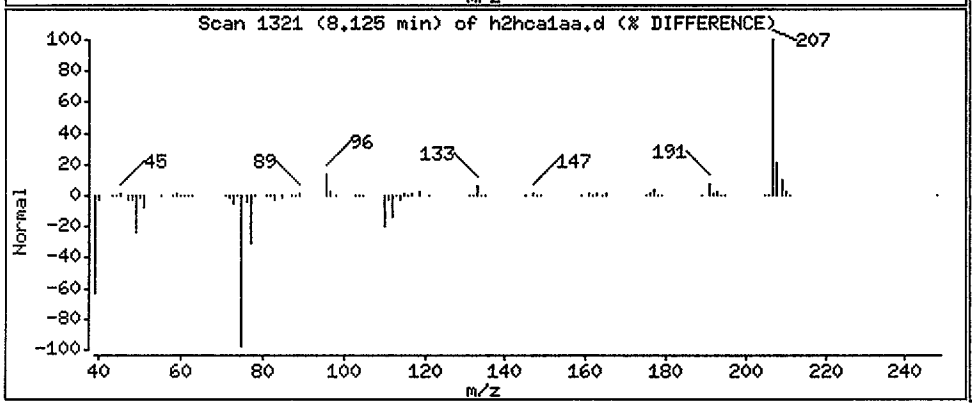
55 trans-1,3-Dichloropropene

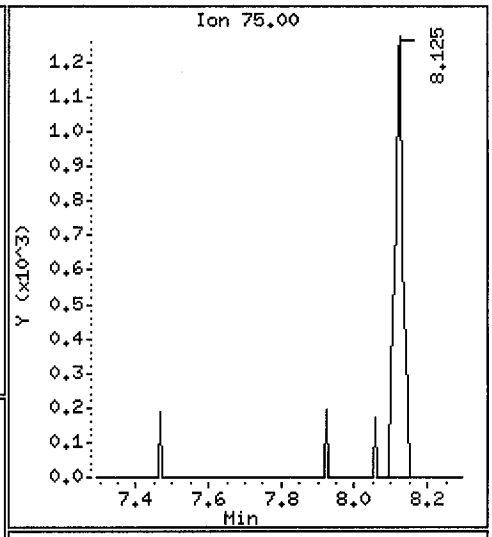
Concentration: 0.018836 ug

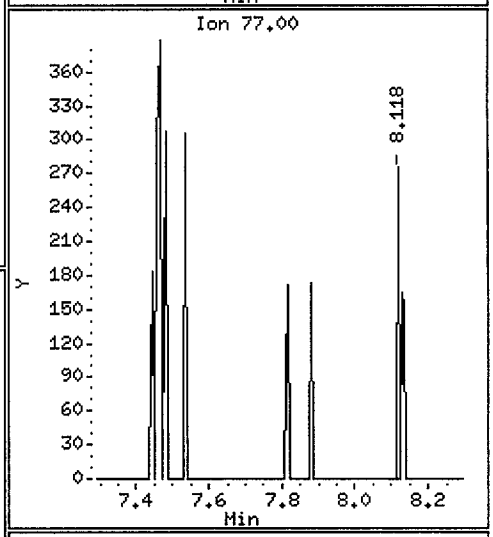


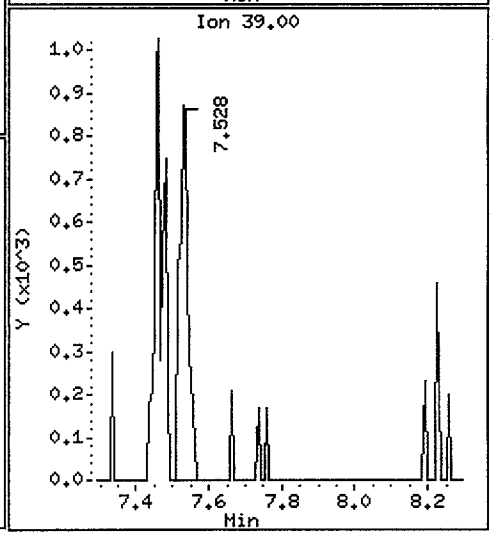












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d
Lab Smp Id: H2HCA1AA Client Smp ID: G-3016-R2-VOST TENA
Inj Date : 07-APR-2006 13:09
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCA1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.673	918745	10.000
* 2 Chlorobenzene-d5	8.934	1270709	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.910	9305125	101.280823	2.5320	5	NIST05.1	80	1
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
8.125	179400	1.41181026	0.035295	91	NIST05.1	73123	2

CO2

Si

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

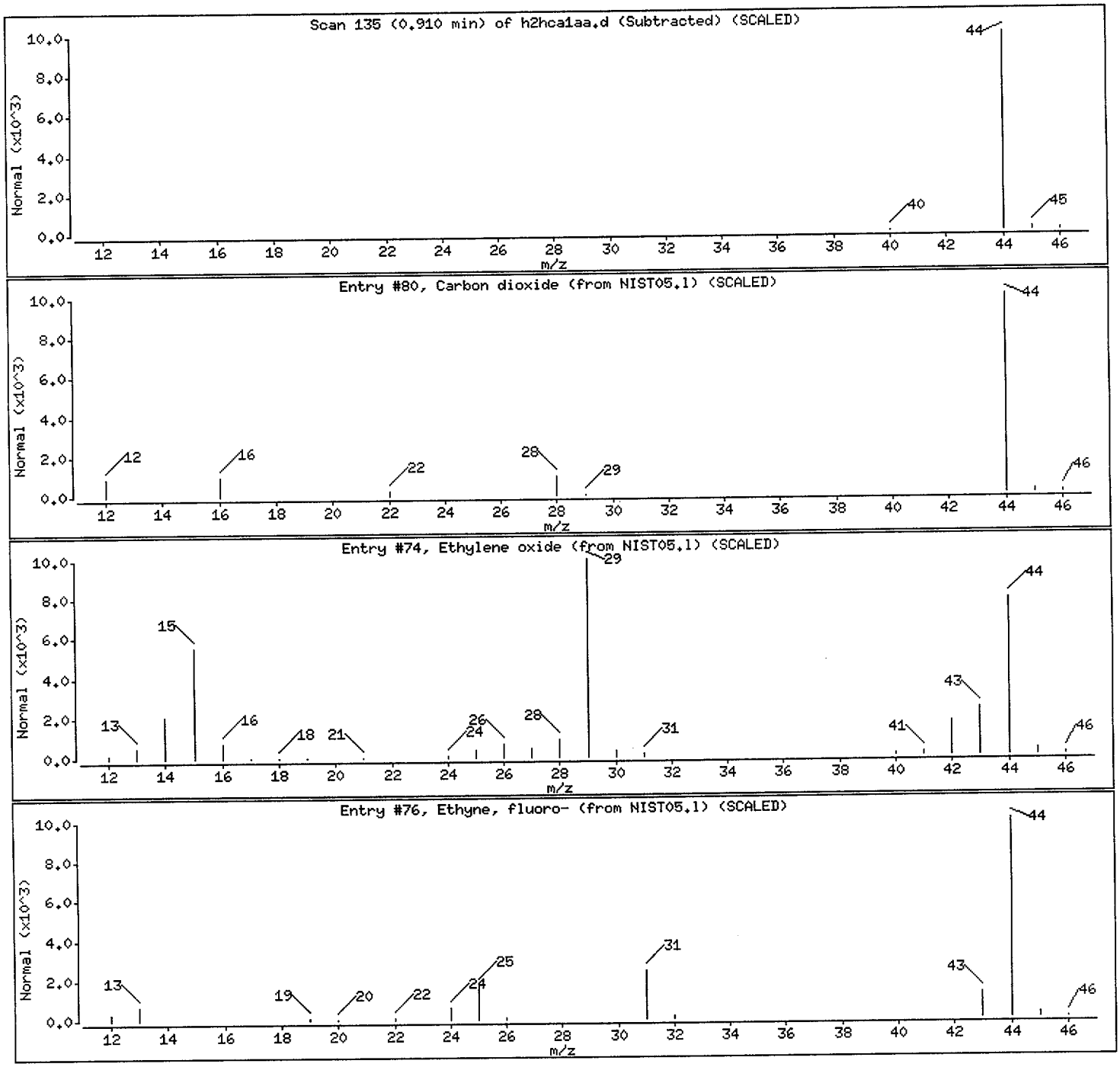
Sample Info: H2HCA1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Ethyne, fluoro-	2713-09-9	NIST05.1	76	3	C2HF	44



Data File: /var/chem/gcms/mz.i/Z040706.b/h2hca1aa.d

Date : 07-APR-2006 13:09

Client ID: G-3016-R2-VOST TENA

Instrument: mz.i

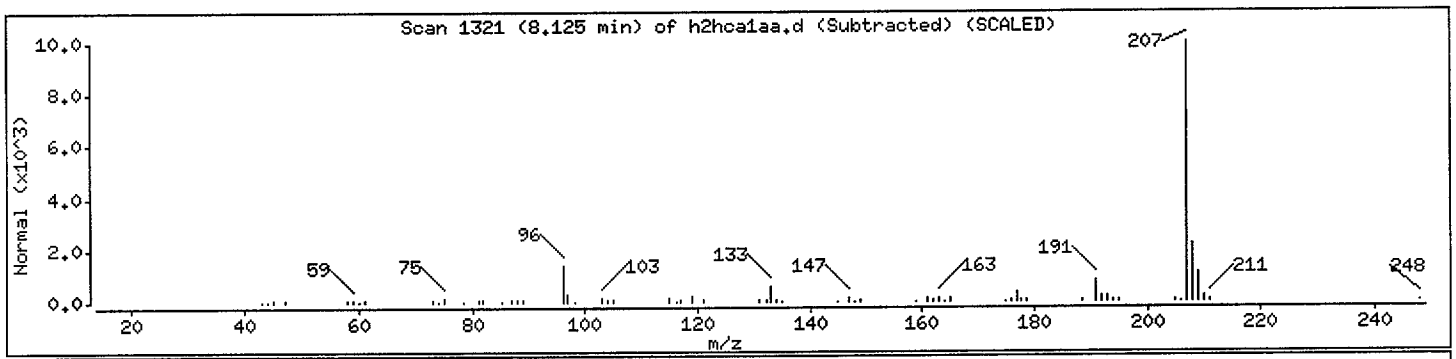
Sample Info: H2HCA1AA,1,0,,

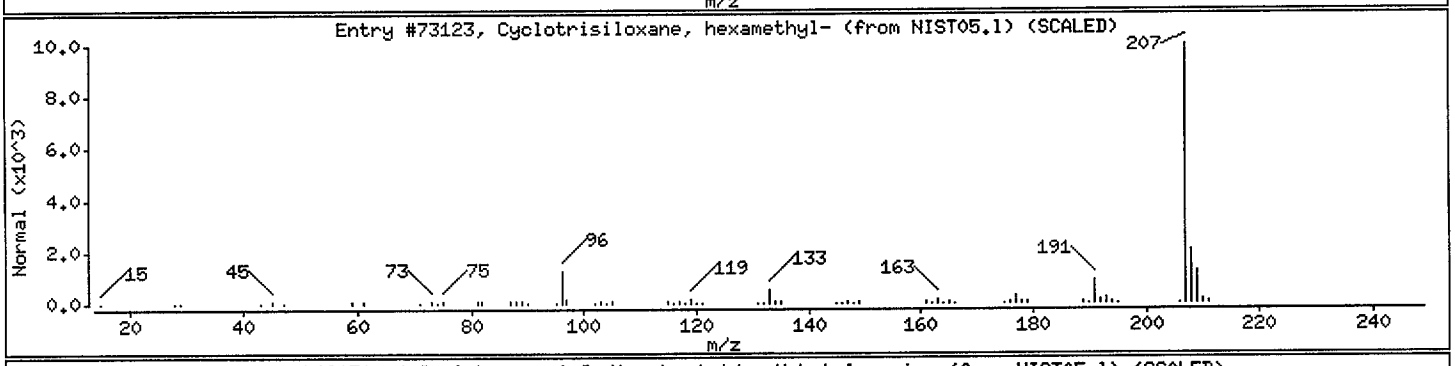
Operator: 22980

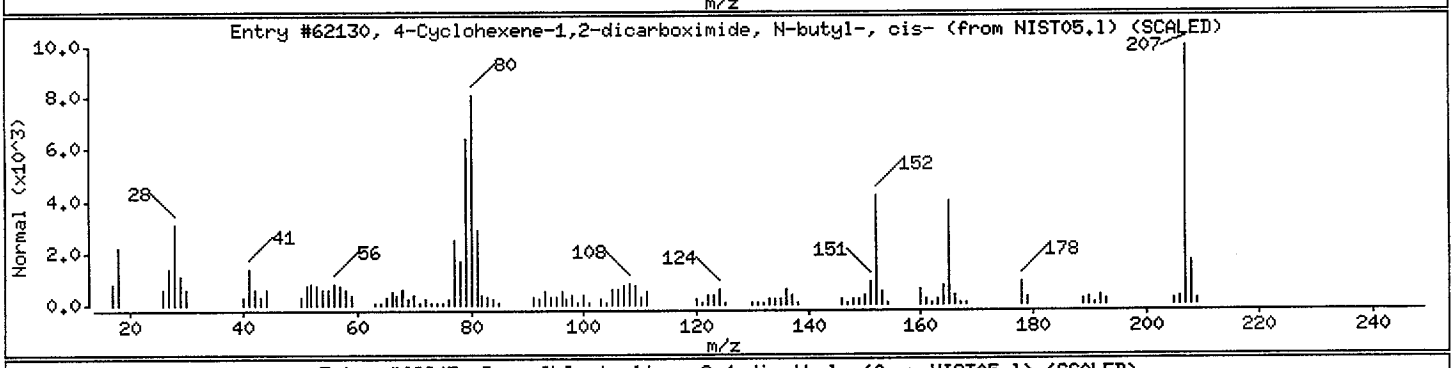
Column phase: J+W 624

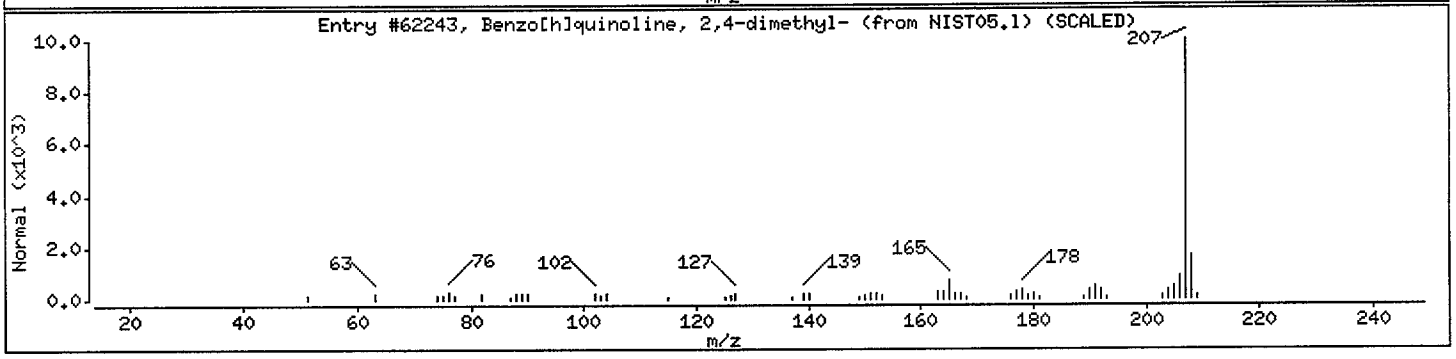
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.1	73123	91	C6H18O3Si3	222
4-Cyclohexene-1,2-dicarboximide, N-butyl	28916-00-9	NIST05.1	62130	42	C12H17NO2	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.1	62243	40	C15H13N	207









STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.16**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.010**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.038**	**0.010**	**ug**	**0.0016**
Bromoform	**0.12**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.011**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0038 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.3 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	**0.0018 J**	**0.010**	**ug**	**0.0013**
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.16**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.23**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.068**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0069 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0091 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.010 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	69	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-023 **Work Order #:** H2HCD1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Lab Smp Id: H2HCD1AA
Inj Date : 07-APR-2006 17:03
Operator : 22980
Smp Info : H2HCD1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:29 tajh
Cal Date : 15-FEB-2006 14:58
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: qmidhp01

Client Smp ID: G-3089-R3-VOST PAIR
Inst ID: mx.i
Quant Type: ISTD
Cal File: icxb151.d
Compound Sublist: focus.sub

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04 21 06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1083386	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	218210	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	235614	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.273	(0.880)	134553	7.30480	0.18262
$ 5 1,2-Dichloroethane-d4	65	4.549	4.553	(0.937)	104723	7.29378	0.18234
$ 6 Toluene-d8	98	6.253	6.250	(0.824)	739326	6.92019	0.17300
$ 7 4-Bromofluorobenzene	95	8.875	8.872	(0.826)	137094	4.90746	0.12269(R)
M 9 Xylene (total)	106				21698	0.41787	0.010447
11 Chloromethane (spcc)	50	1.252	1.262	(0.258)	4597	0.09108	0.0022770
21 Acetone	43	2.377	2.381	(0.490)	9763	6.36281	0.15907
23 Carbon Disulfide	76	2.499	2.497	(0.515)	37449	0.45357	0.011339
26 Methylene Chloride	84	2.749	2.746	(0.566)	108417	6.47273	0.16182
33 *Vinyl Acetate	86	3.253	3.421	(0.670)	1911	1.55112	~~0.038778~~
36 2-Butanone	43	3.880	3.871	(0.799)	2131	0.89060	0.022265
38 *THF	42	4.111	4.109	(0.847)	1364	0.93023	0.023256
39 Chloroform (ccc)	83	4.136	4.139	(0.852)	44620	1.08364	0.027091
41 Carbon Tetrachloride	117	4.440	4.437	(0.915)	5969	0.15350	0.0038374
42 1,1-Dichloropropene	75	4.853	4.437	(1.000)	84174	1.96240	~~0.049060~~
43 Benzene	78	4.610	4.607	(0.950)	43866	0.39980	0.0099951
44 1,2-Dichloroethane	62	4.847	4.620	(0.999)	19345	1.04778	~~0.026194~~

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
45 Trichloroethene	130	5.176	5.173	(1.066)	8143	0.27662	0.0069154
49 Bromodichloromethane	83	5.608	5.605	(1.155)	34776	1.51286	0.037822
51 cis-1,3-Dichloropropene	75	6.313	6.007	(1.301)	2103	0.07812	~~0.0019531~~
52 4-Methyl-2-pentanone	43	6.253	6.147	(1.288)	6276	1.09498	~~0.027374~~
53 Toluene (ccc)	91	6.313	6.311	(0.832)	348109	2.72346	0.068086
54 trans-1,3-Dichloropropene	75	6.313	6.506	(0.832)	2103	0.09388	~~0.0023470~~
56 1,1,2-Trichloroethane	97	6.697	6.670	(0.883)	1093	0.10834	~~0.0027086~~
57 Tetrachloroethene	164	6.818	6.816	(0.899)	248168	9.03623	0.22590
59 2-Hexanone	43	6.721	6.907	(0.886)	3421	0.80106	~~0.020026~~
60 Chlorodibromomethane	129	7.037	7.035	(0.928)	49926	3.99107	0.099777
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	6090129	92.8173	2.3204(A)
64 Ethylbenzene (ccc)	106	7.713	7.716	(1.017)	3309	0.07334	0.0018334
65 m&p-Xylene	106	7.834	7.838	(1.033)	19289	0.36473	0.0091182
66 o-Xylene	106	8.248	8.251	(1.087)	2409	0.05314	0.0013285
68 Bromoform (spcc)	173	8.461	8.464	(1.115)	28890	4.77839	0.11946
69 Isopropylbenzene	105	8.692	8.689	(1.146)	7202	0.04953	0.0012382 CMDL integrate
71 Bromobenzene	156	9.075	9.067	(1.196)	1054	0.05132	0.0012829
73 1,2,3-Trichloropropane	110	9.246	9.115	(0.861)	2583	1.17464	~~0.029366~~
80 1,2,4-Trimethylbenzene	105	10.085	10.125	(0.939)	12361	0.16262	~~0.0040654~~
81 sec-Butylbenzene	105	10.085	10.435	(0.939)	12363	0.09206	~~0.0023015~~
82 1,3-Dichlorobenzene	146	10.767	10.612	(1.002)	1988	0.05008	~~0.0012521~~
84 1,4-Dichlorobenzene	146	10.767	10.788	(1.002)	1562	0.04345	0.0010863 CMDL

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcd1aa.d
Lab Smp Id: H2HCD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3089-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1083386	-5.73
2 Chlorobenzene-d5	214194	107097	428388	218210	1.87
3 1,4 Dichlorobenze	242601	121300	485202	235614	-2.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

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.

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:30

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCD1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3089-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

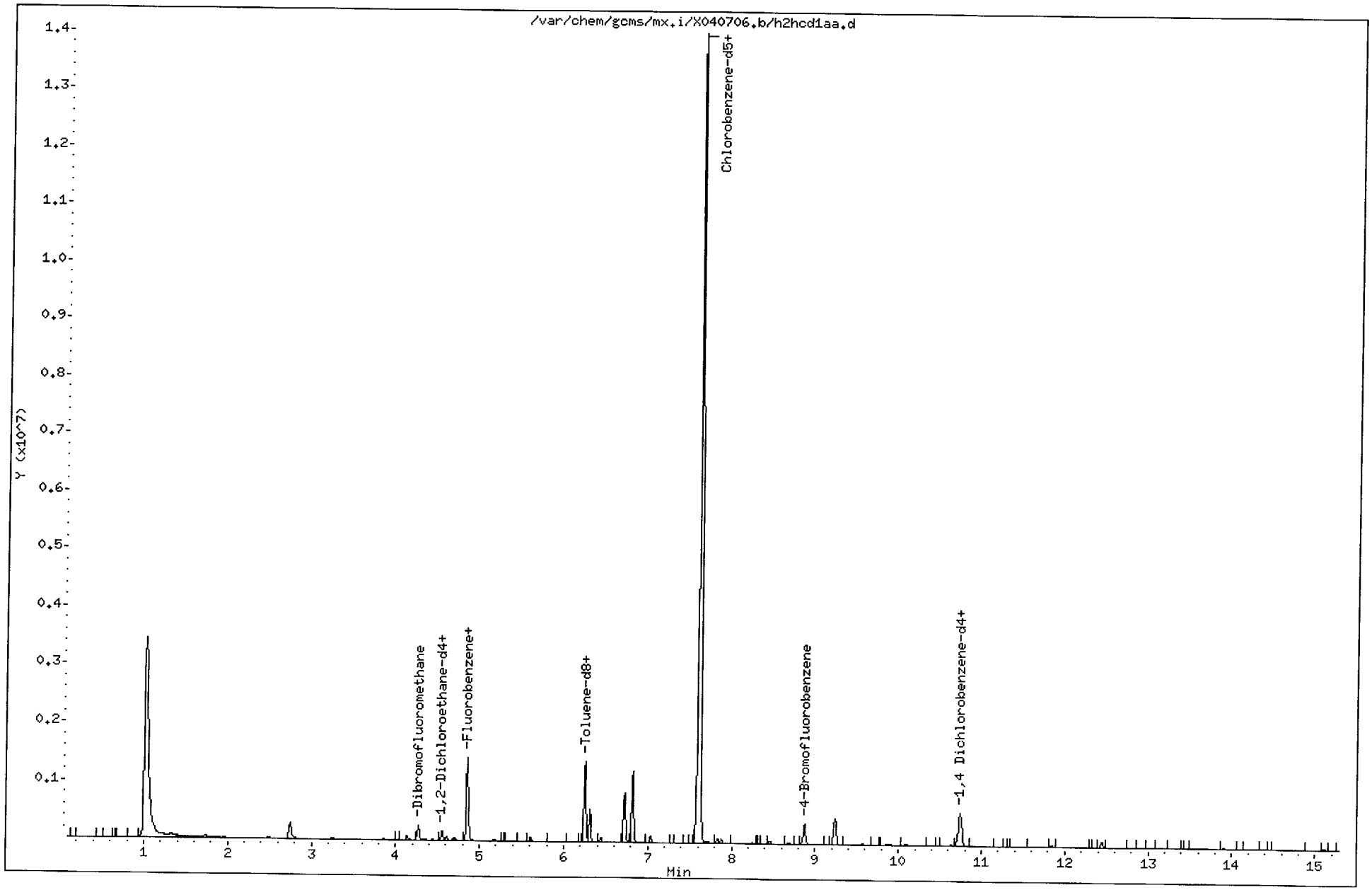
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18262	73.05	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18234	72.94	50-150
$ 6 Toluene-d8	0.25000	0.17300	69.20	50-150
$ 7 4-Bromofluorobenze	0.25000	0.12269	49.07*	50-150

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Date : 07-APR-2006 17:03
Client ID: G-3089-R3-VOST PAIR
Sample Info: H2HCD1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

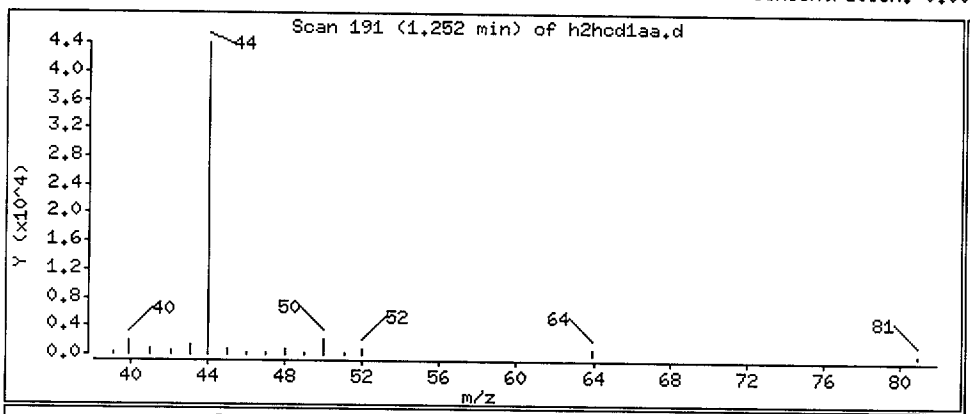
Operator: 22980

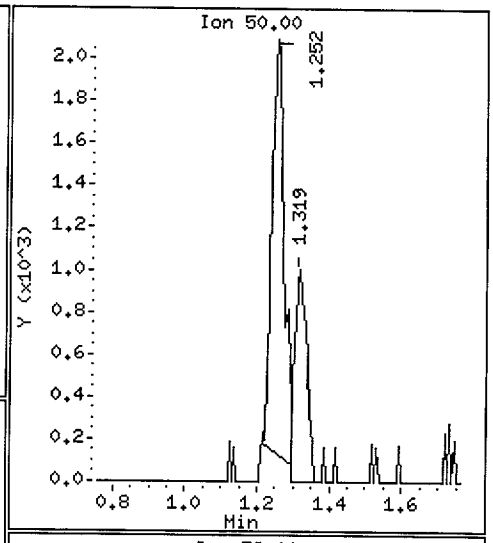
Column phase: J+W 624

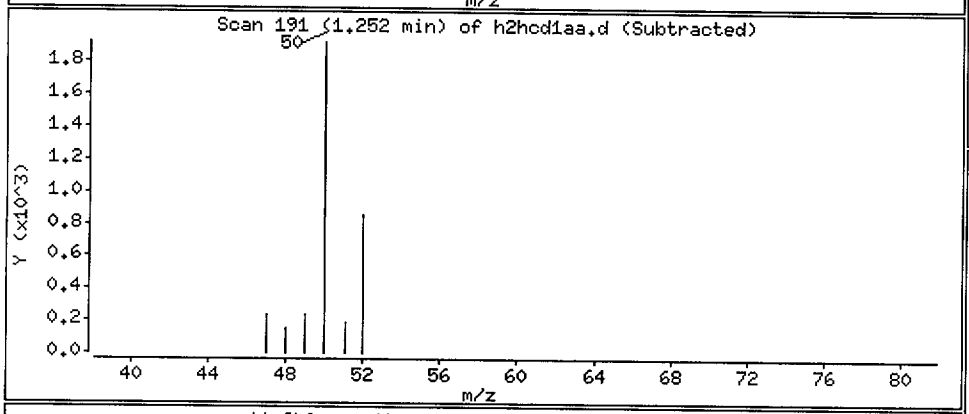
Column diameter: 0.18

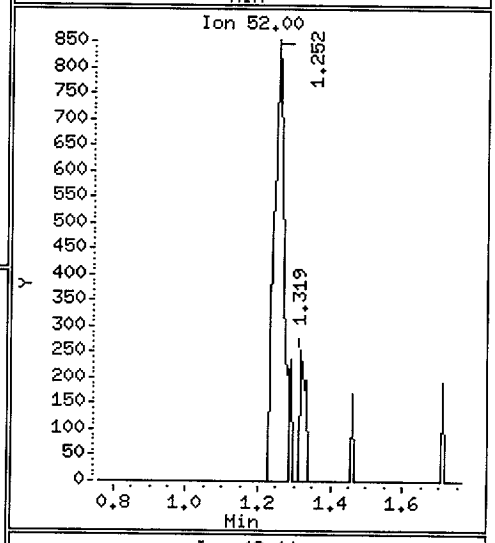
11 Chloromethane (spcc)

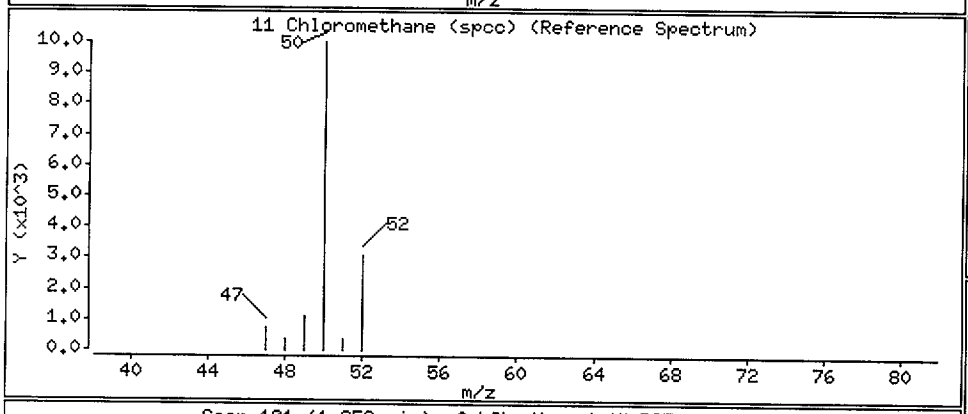
Concentration: 0.0022770 ug

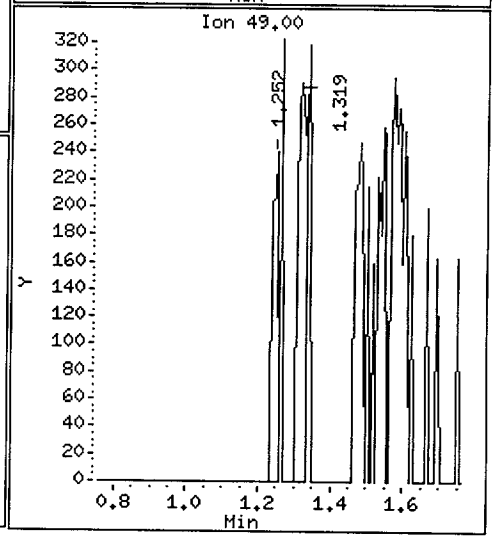


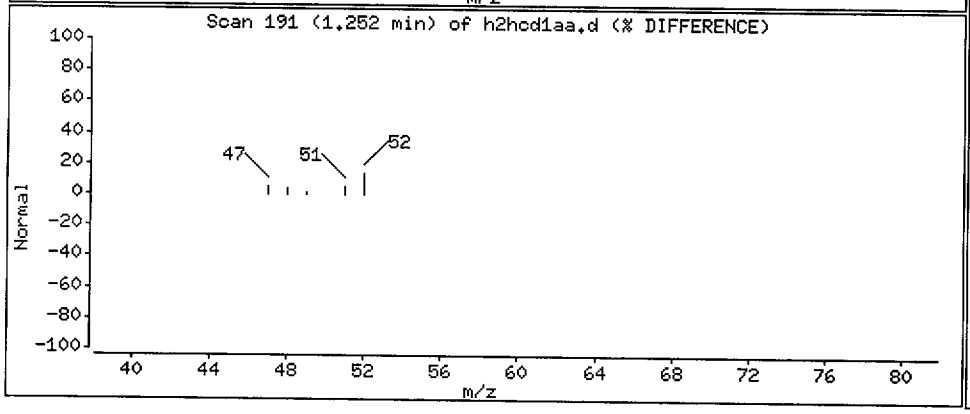












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

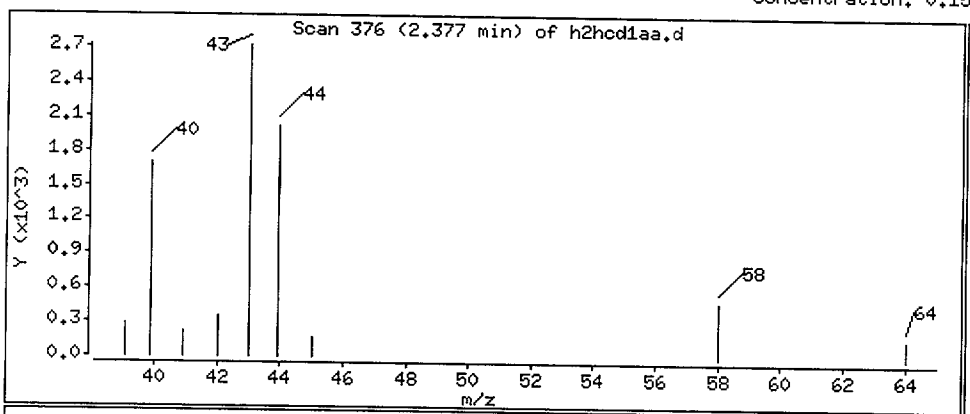
Operator: 22980

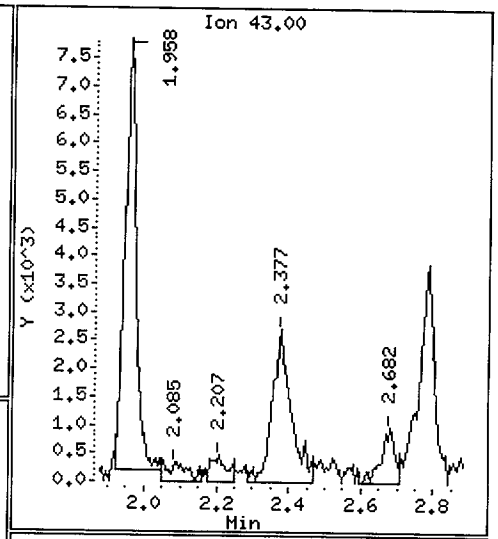
Column phase: J+W 624

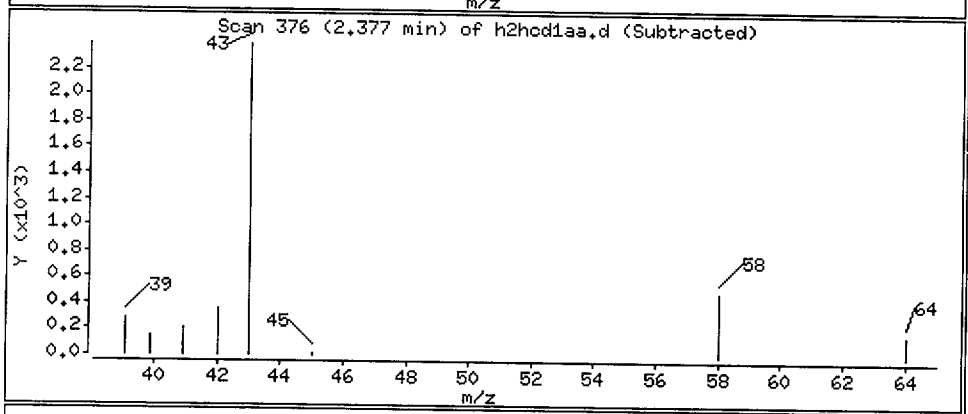
Column diameter: 0.18

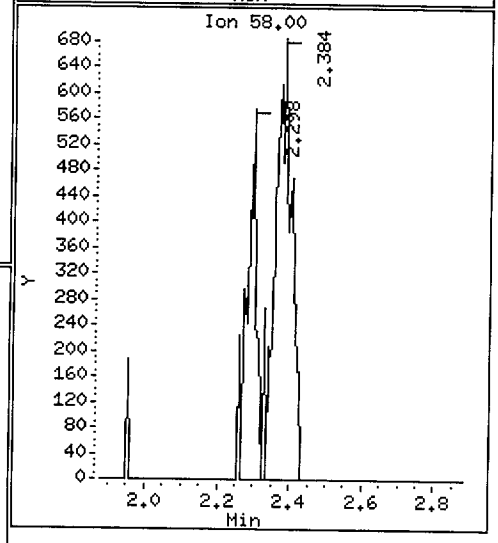
21 Acetone

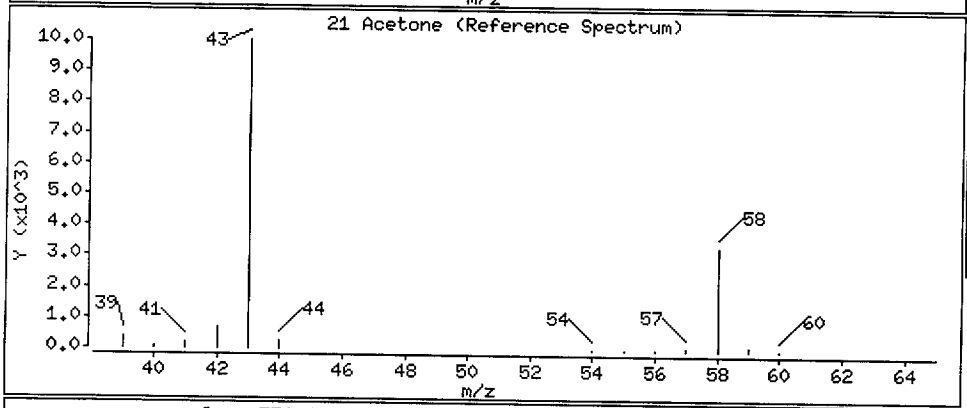
Concentration: 0.15907 ug

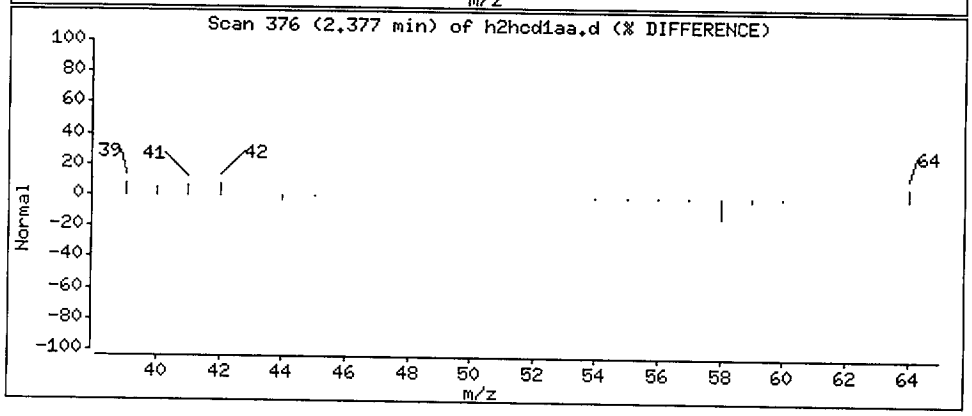












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

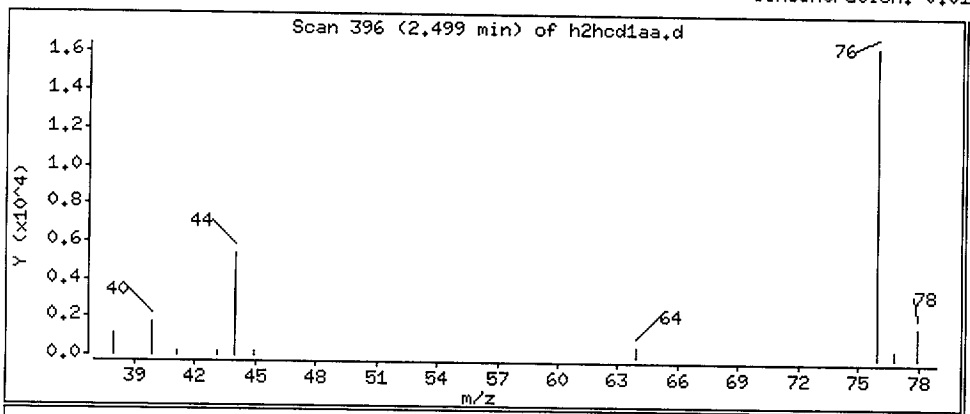
Operator: 22980

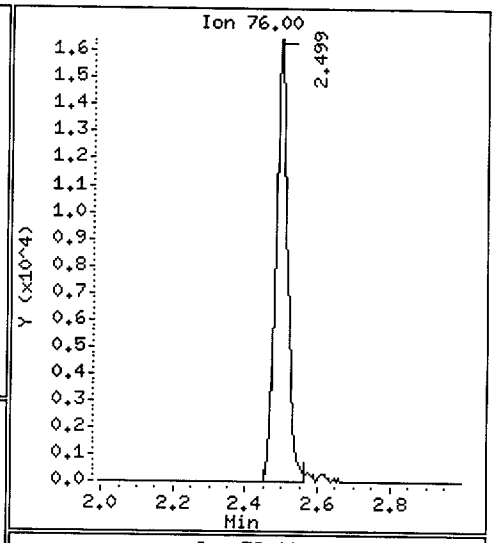
Column phase: J+W 624

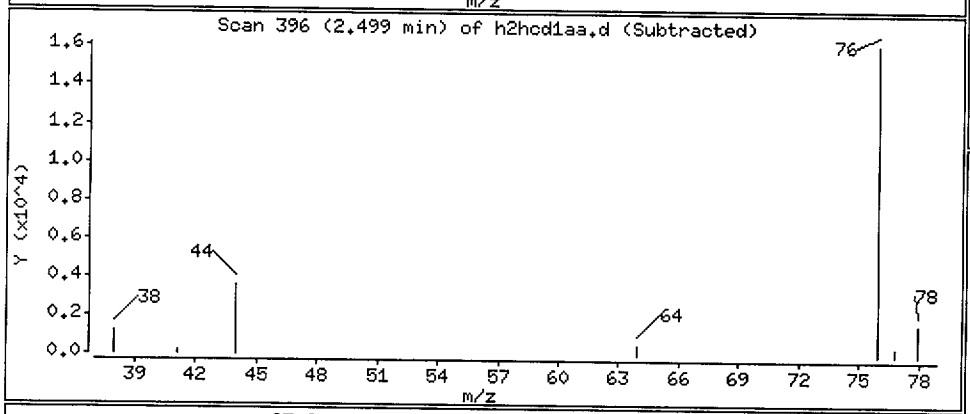
Column diameter: 0.18

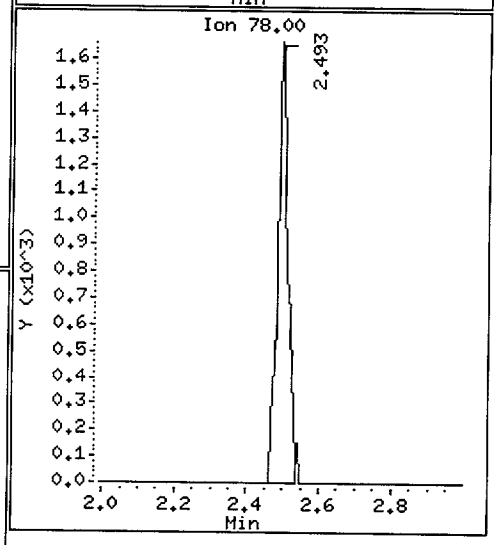
23 Carbon Disulfide

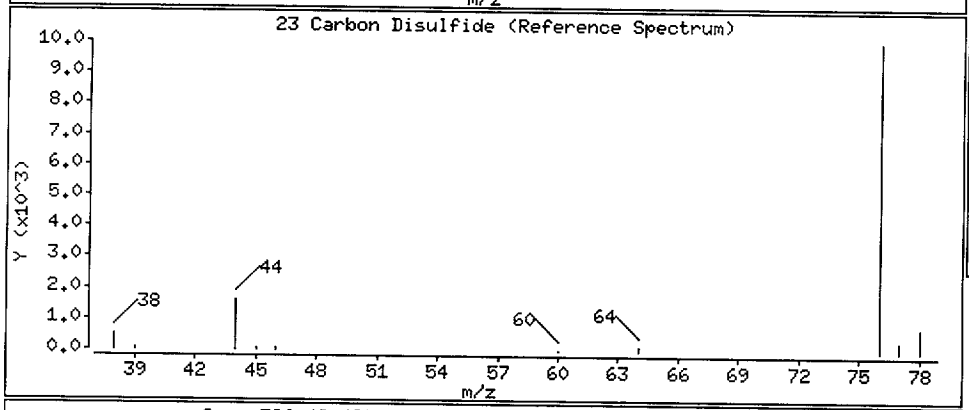
Concentration: 0.011339 ug

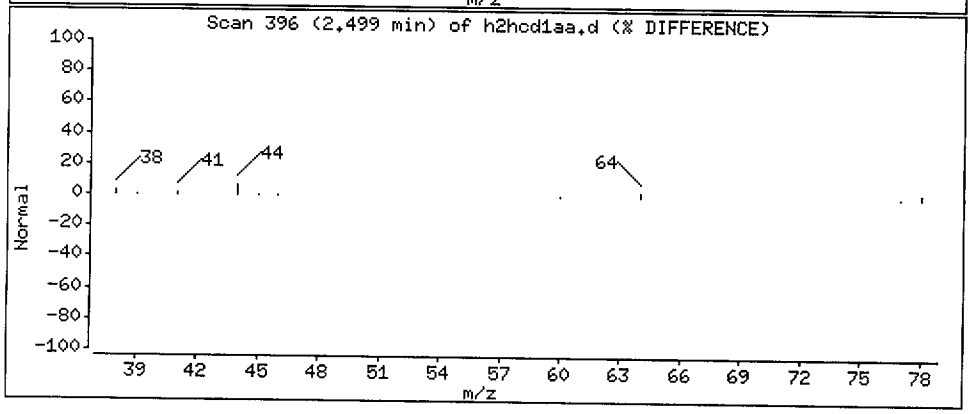












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

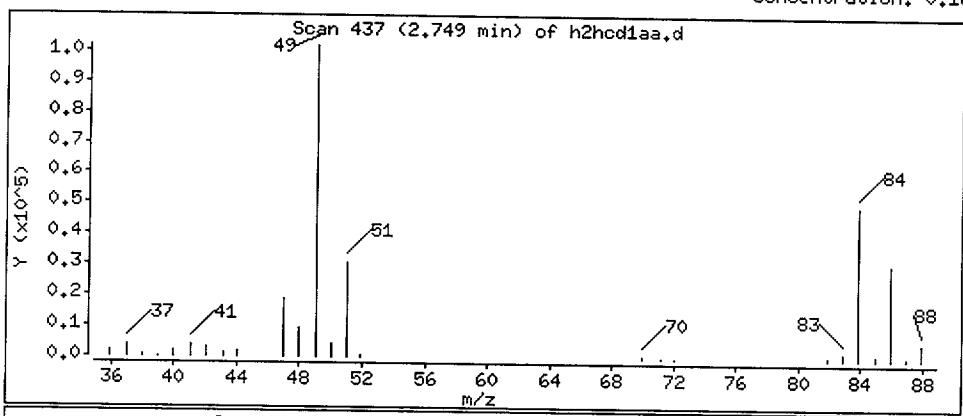
Operator: 22980

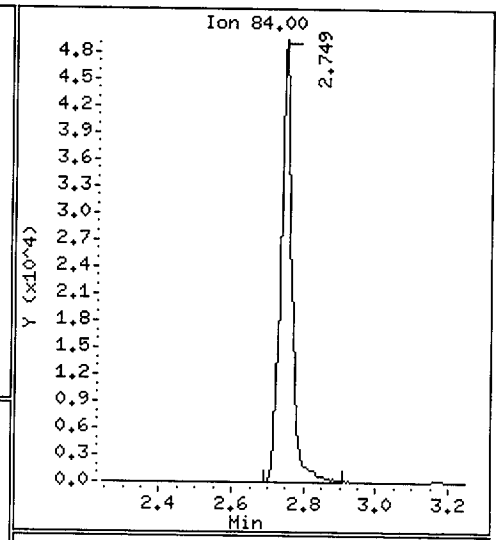
Column phase: J+W 624

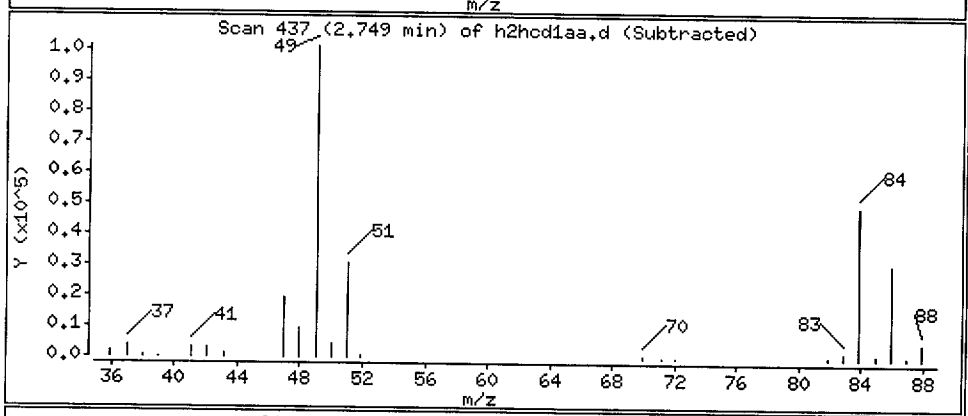
Column diameter: 0.18

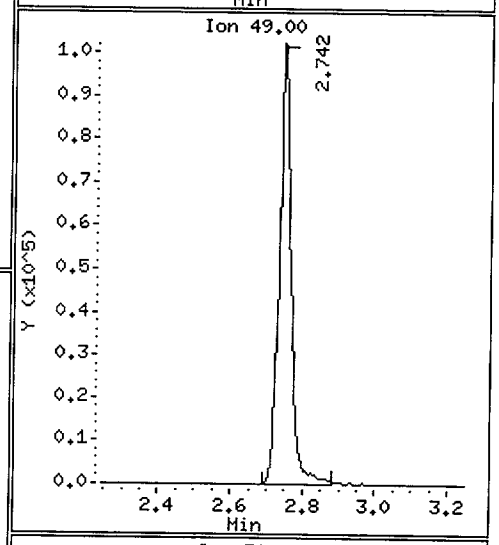
26 Methylene Chloride

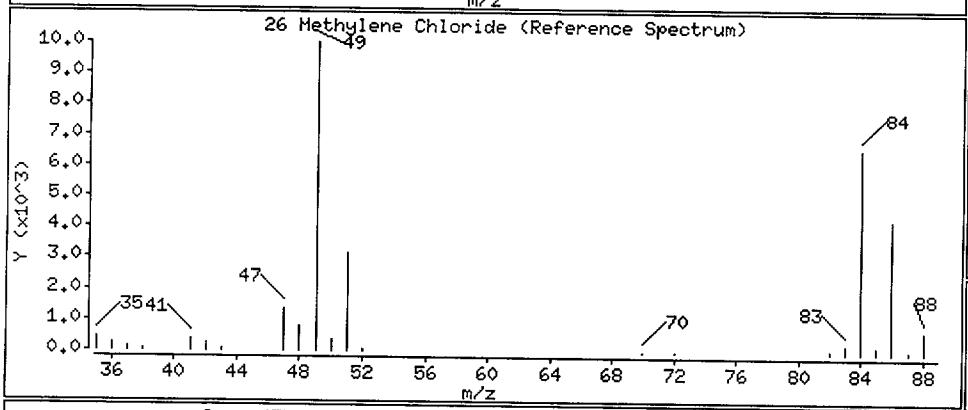
Concentration: 0.16182 ug

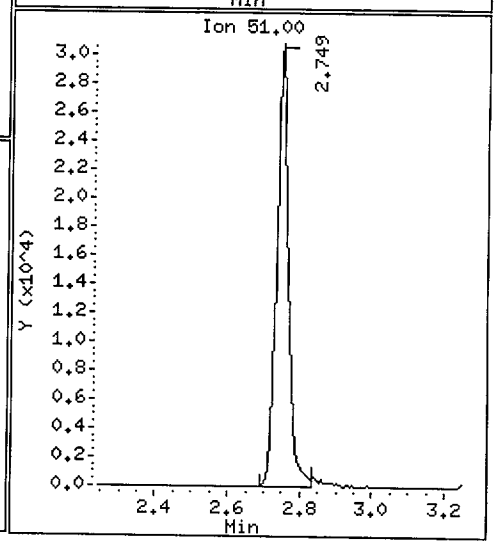


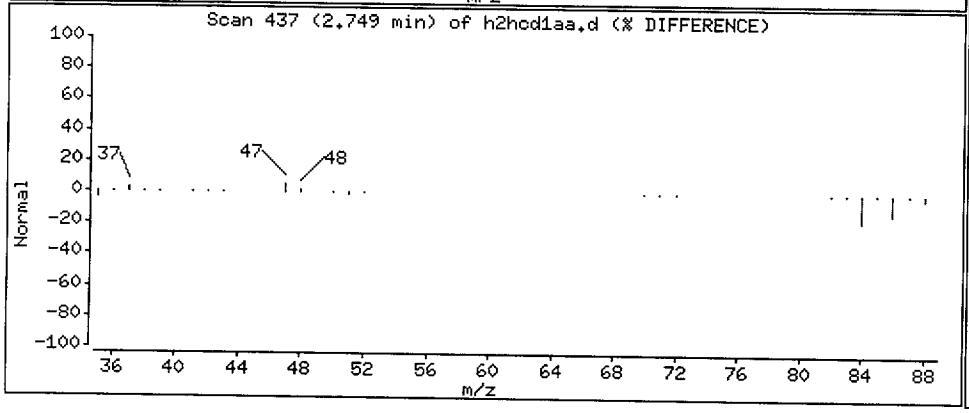












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

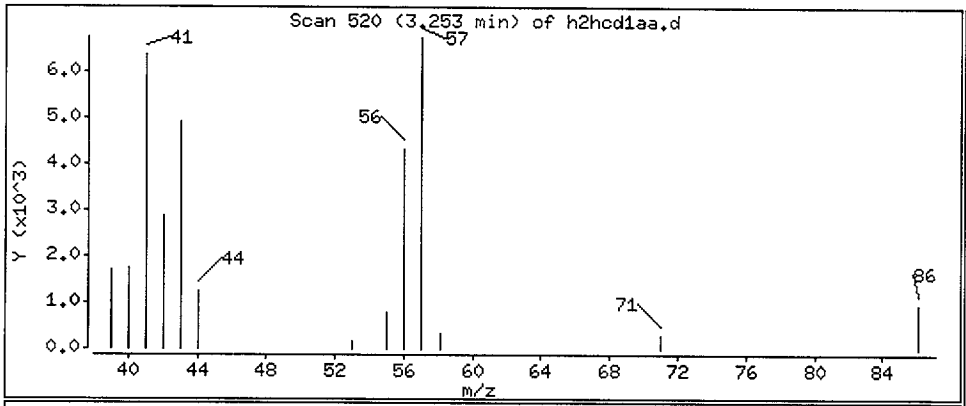
Operator: 22980

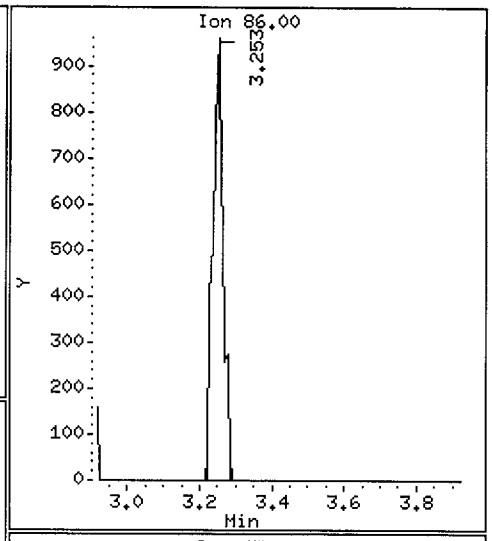
Column phase: J+W 624

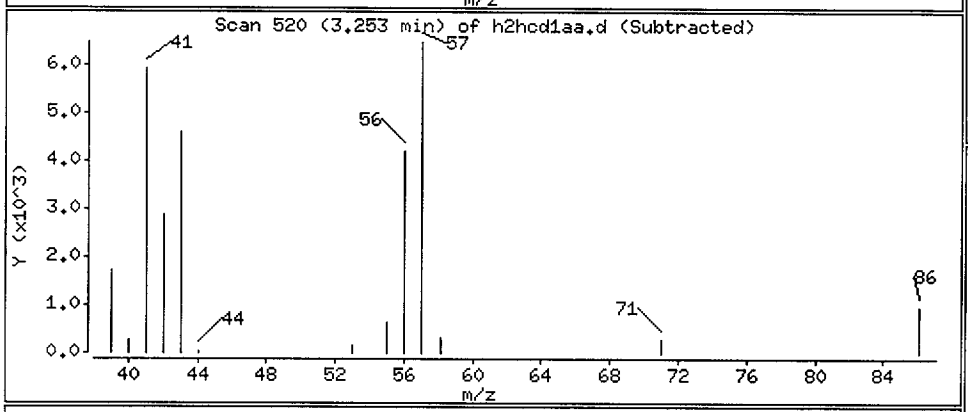
Column diameter: 0.18

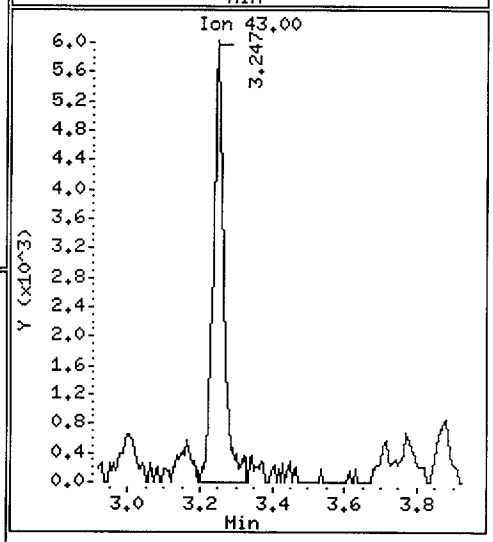
33 *Vinyl Acetate

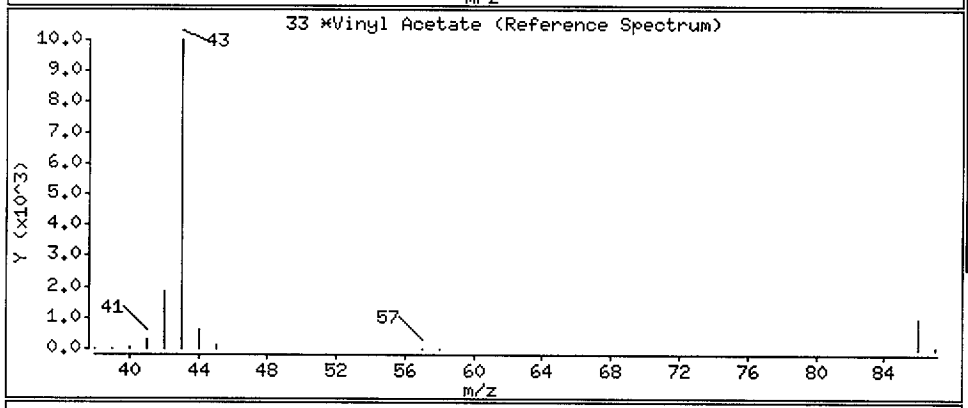
Concentration: 0.038778 ug

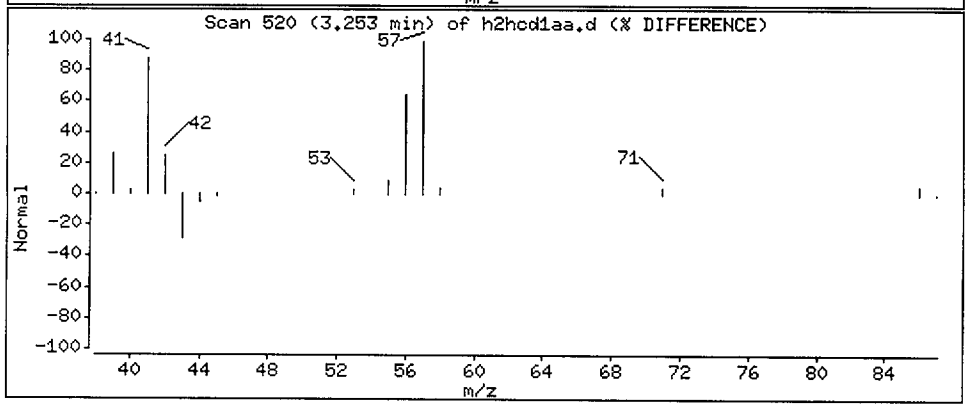












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

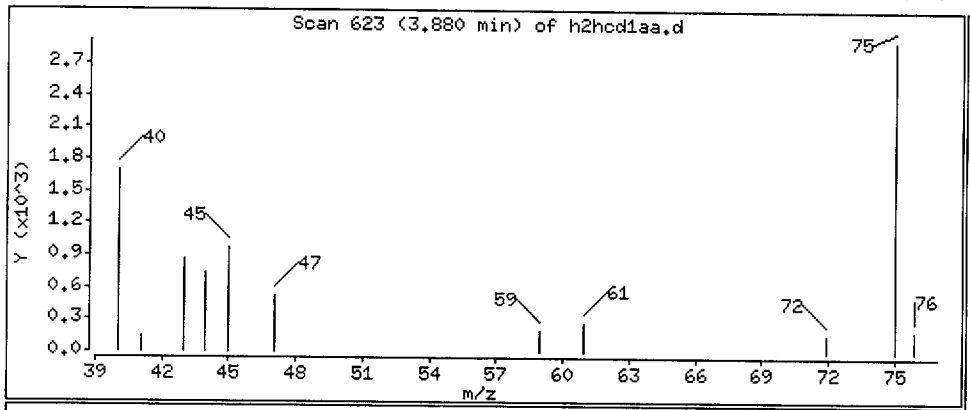
Operator: 22980

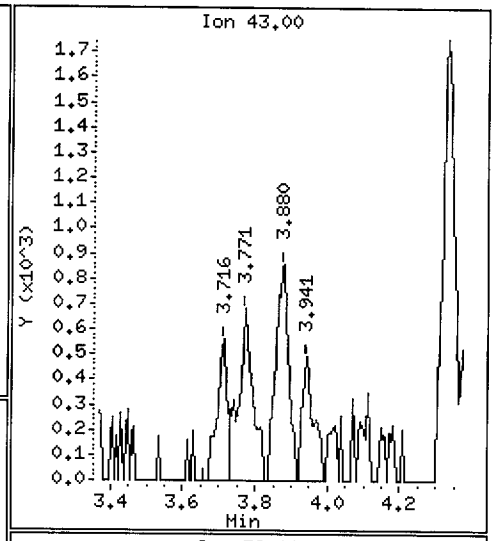
Column phase: J+W 624

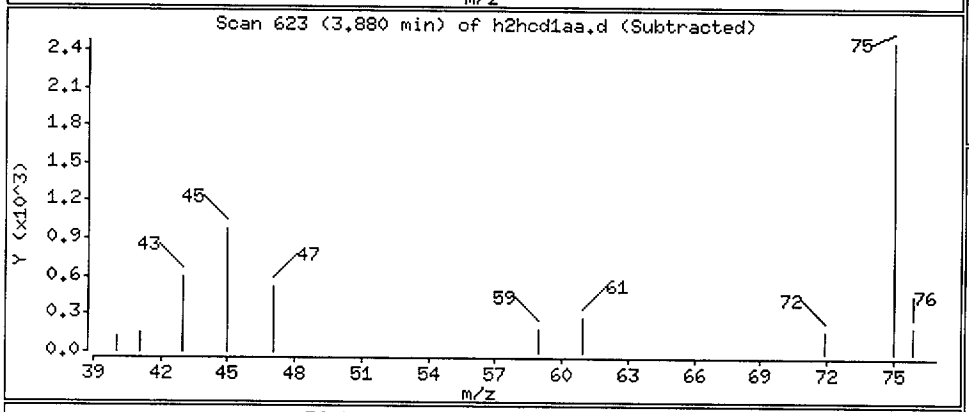
Column diameter: 0.18

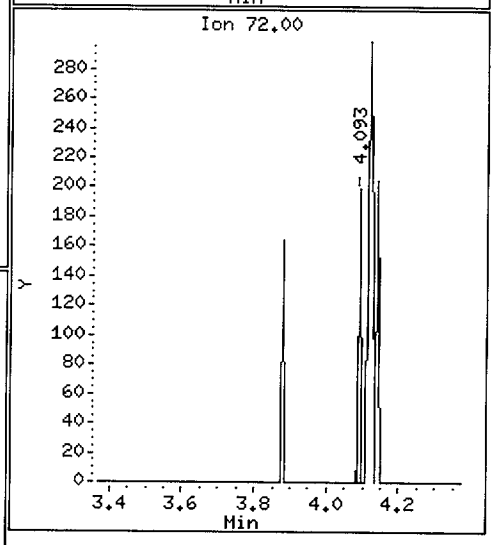
36 2-Butanone

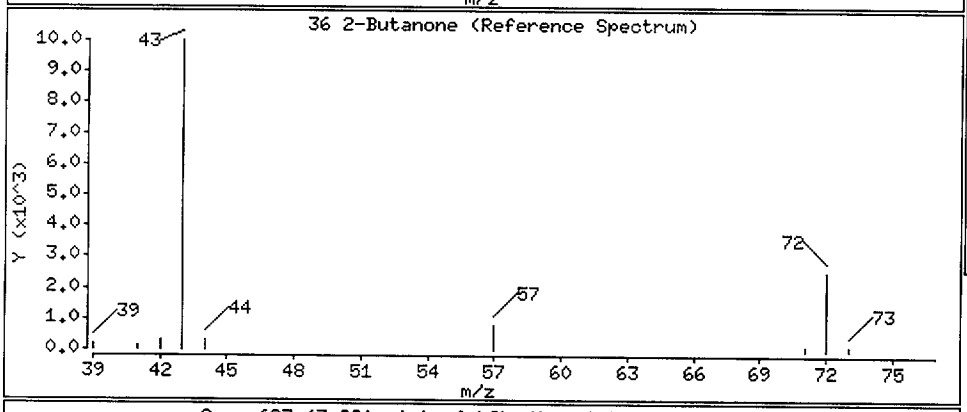
Concentration: 0.022265 ug

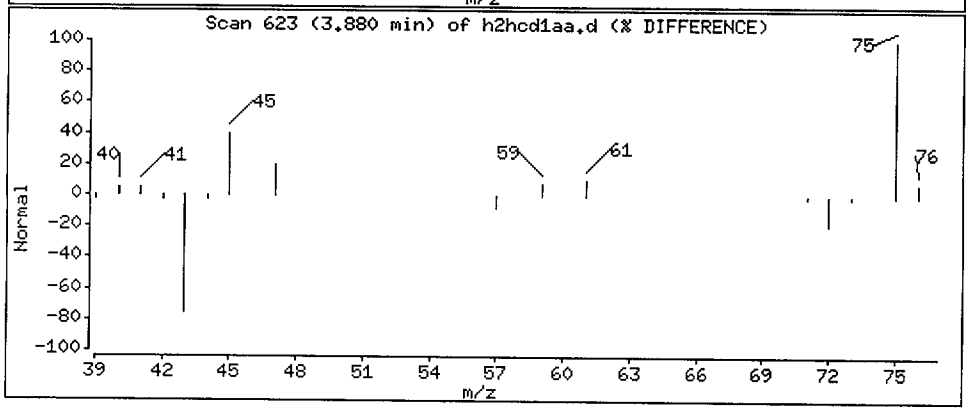












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

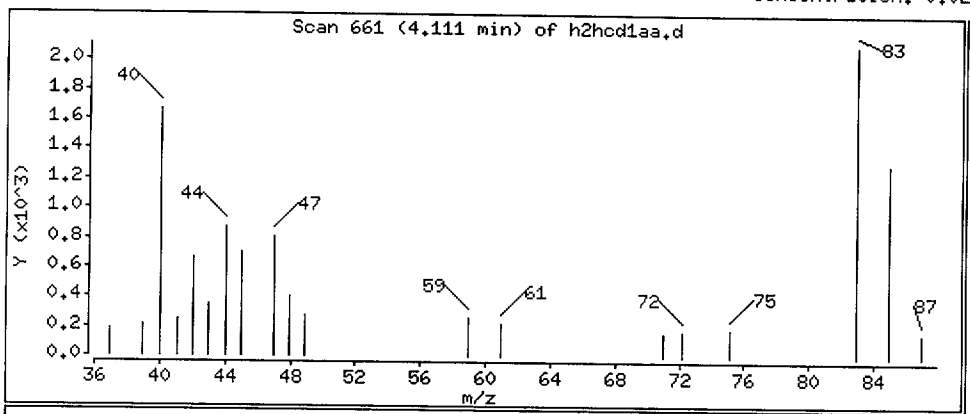
Operator: 22980

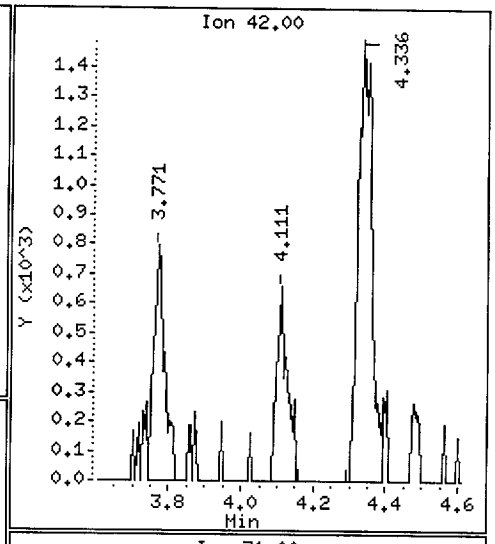
Column phase: J+W 624

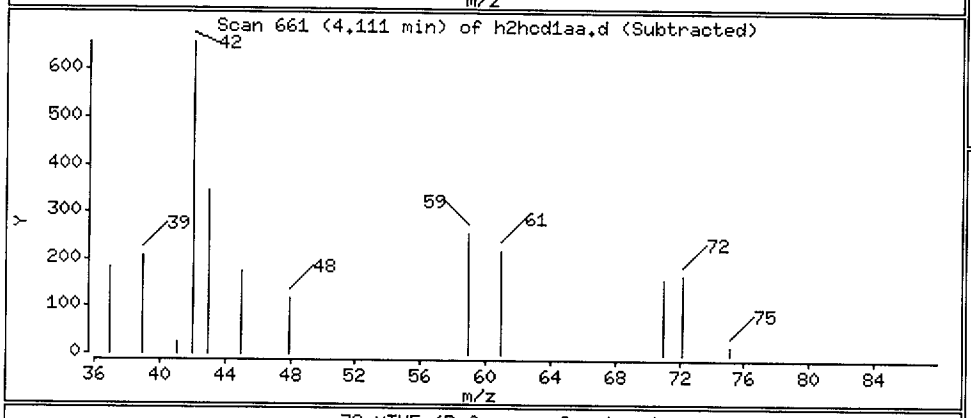
Column diameter: 0.18

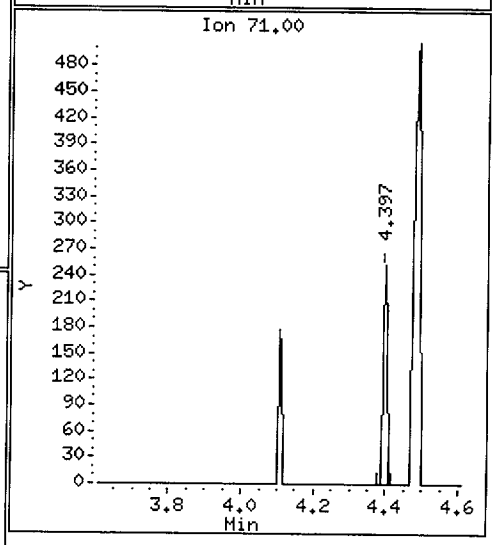
38 *THF

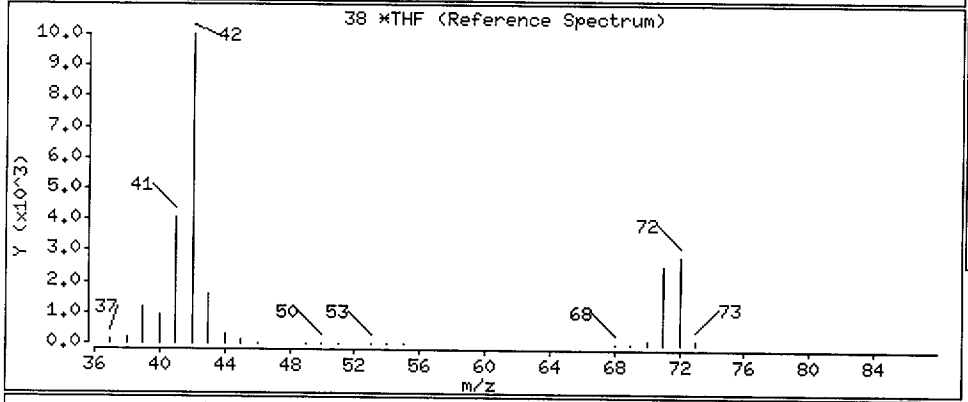
Concentration: 0.023256 ug

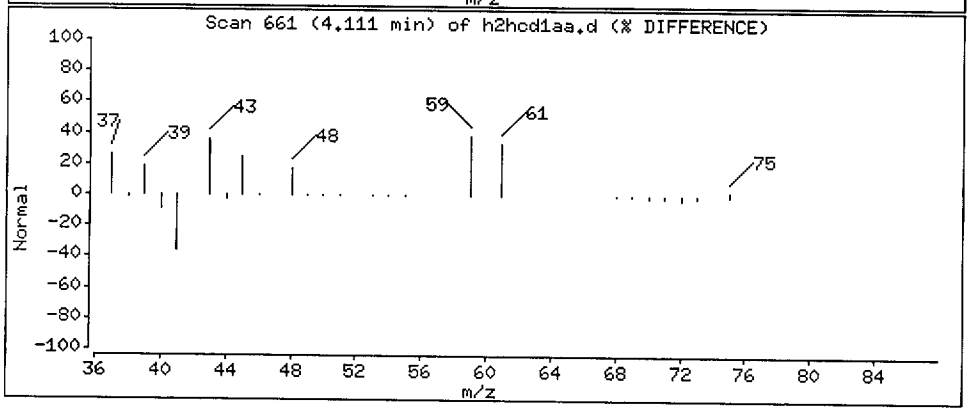












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

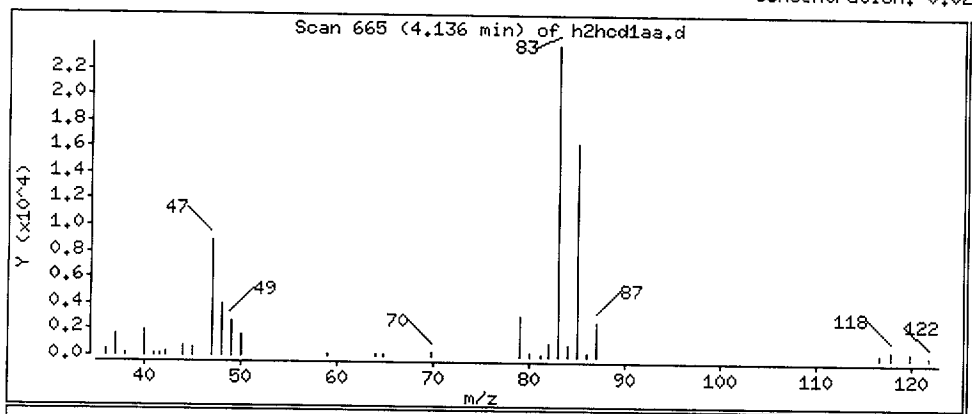
Operator: 22980

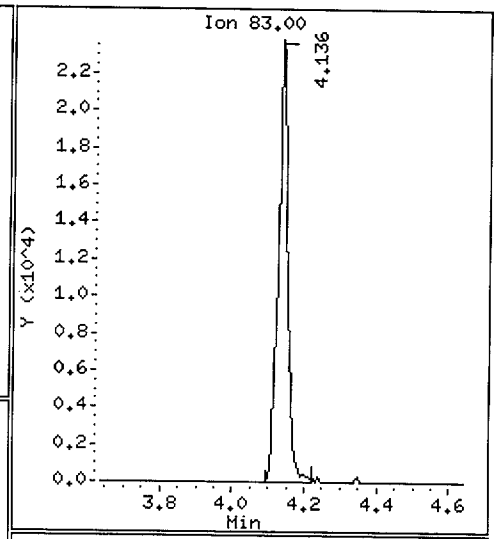
Column phase: J+W 624

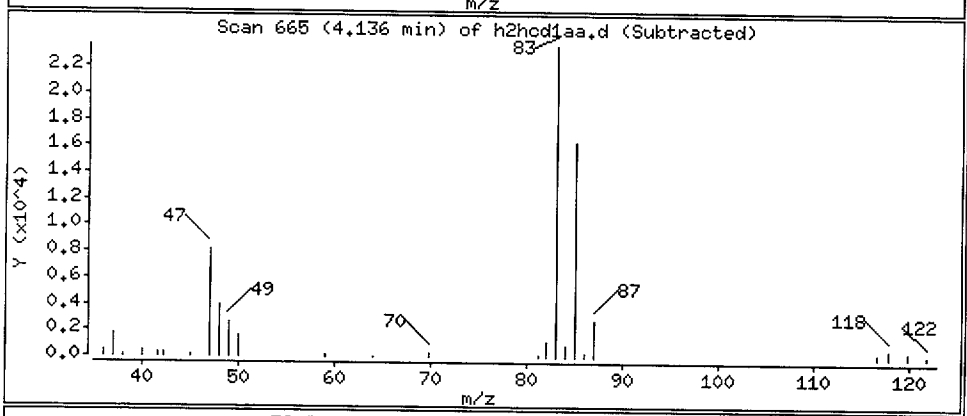
Column diameter: 0.18

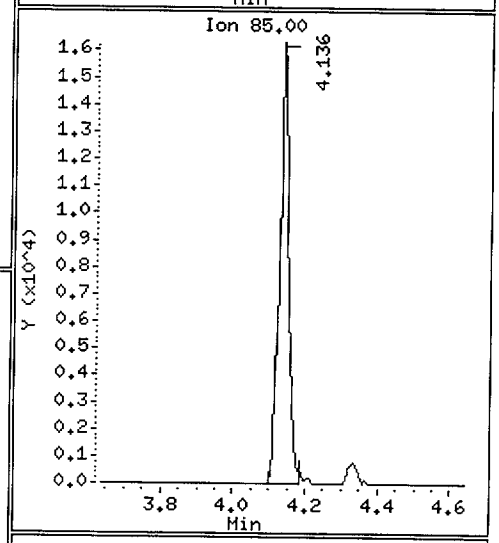
39 Chloroform (ccc)

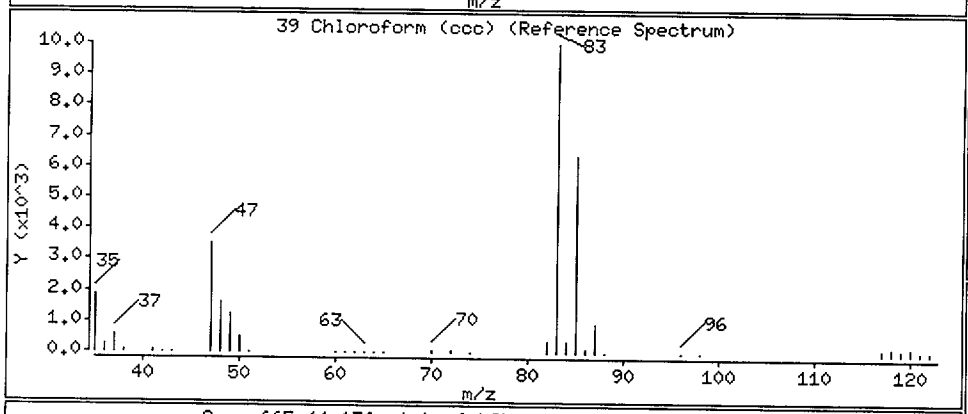
Concentration: 0.027091 ug

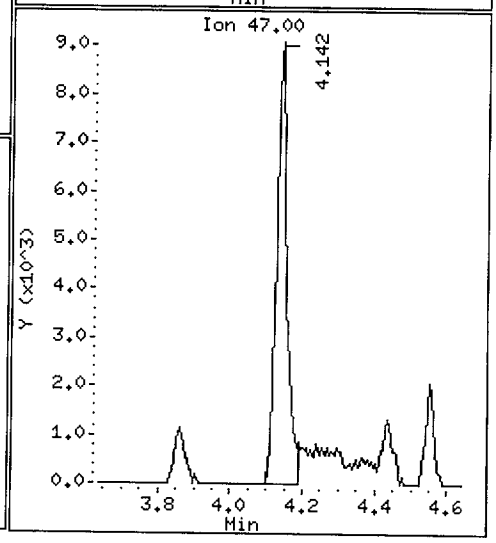


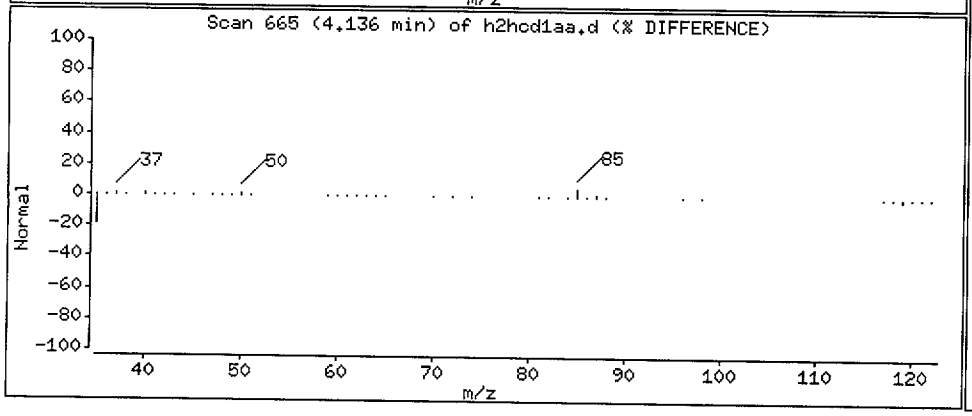












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

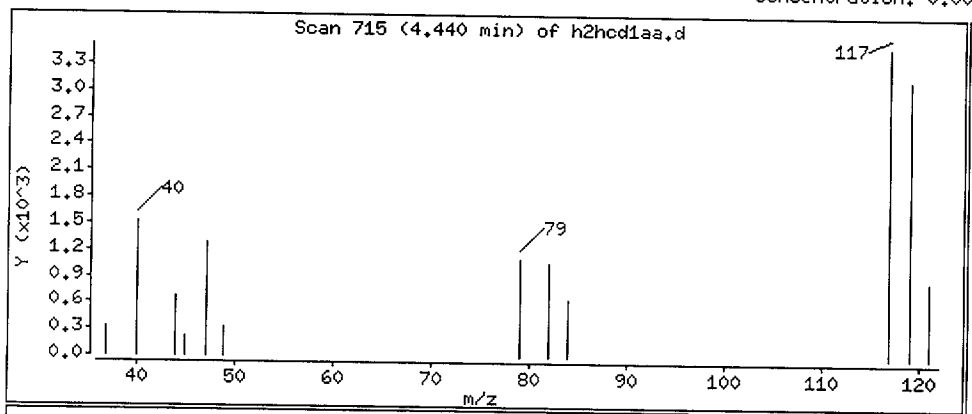
Operator: 22980

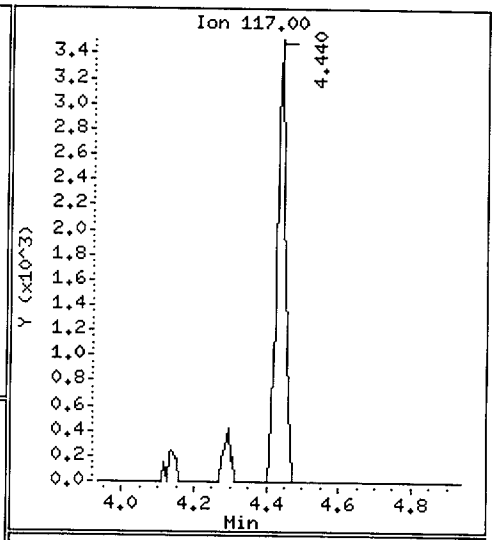
Column phase: J+W 624

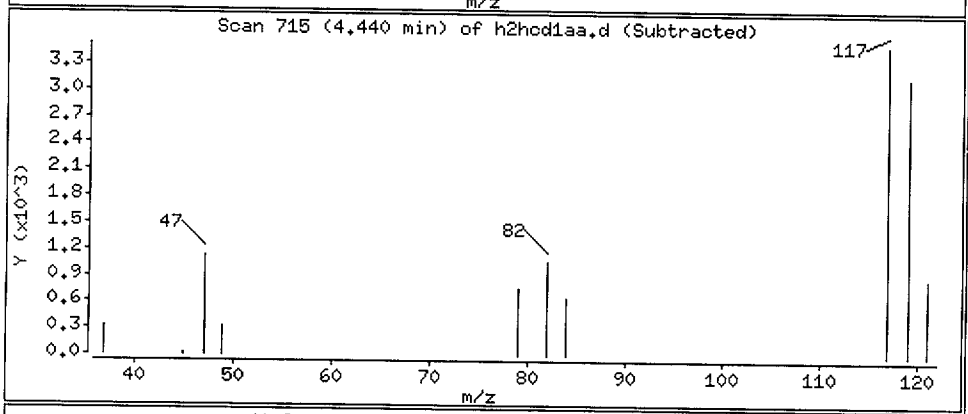
Column diameter: 0.18

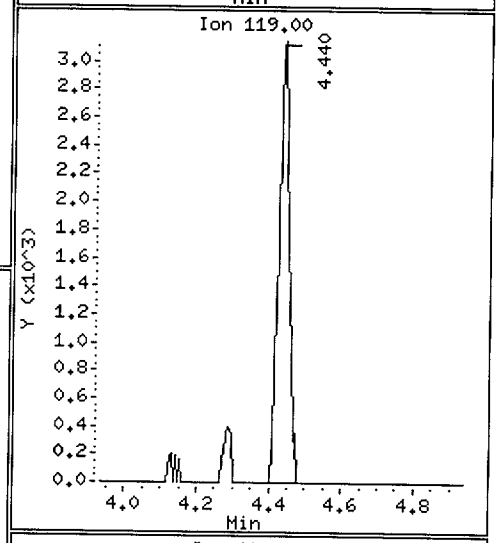
41 Carbon Tetrachloride

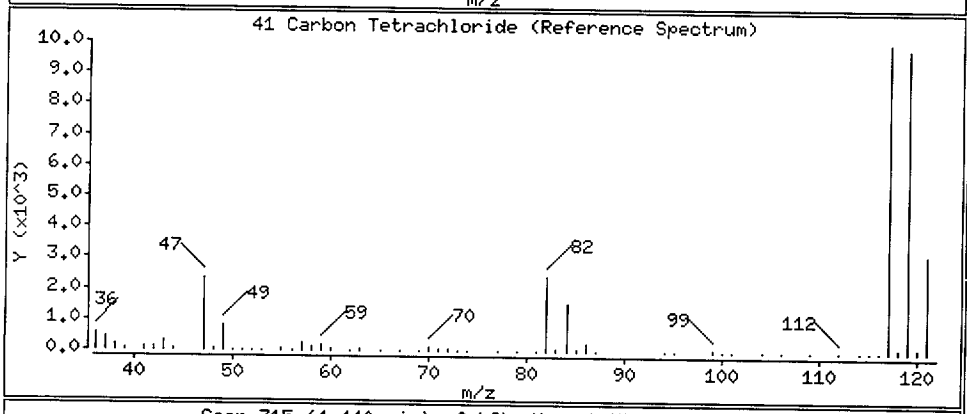
Concentration: 0.0038374 ug

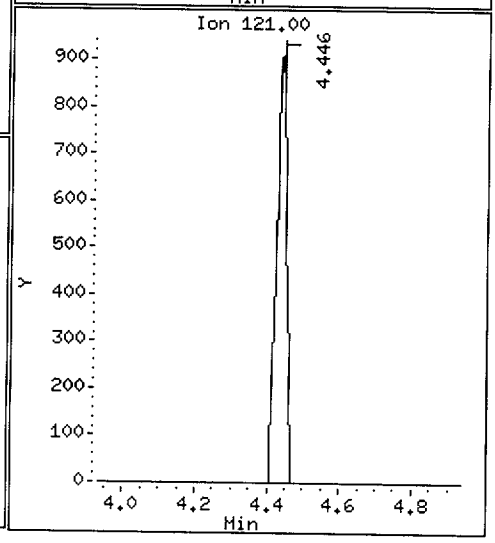


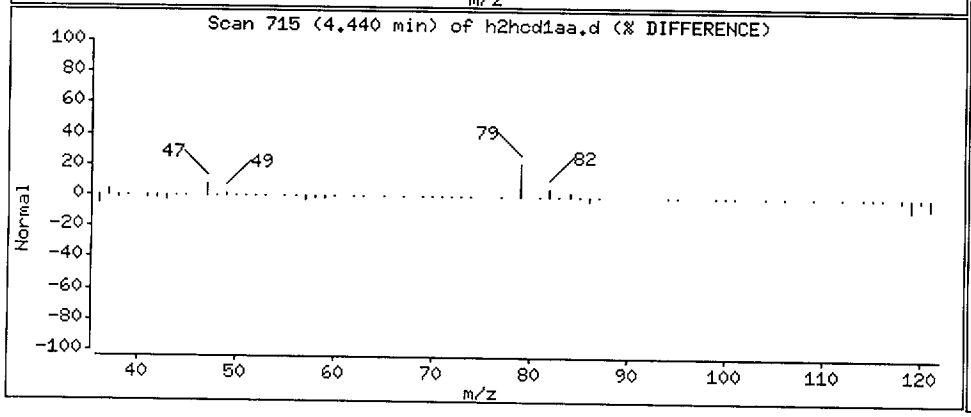












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

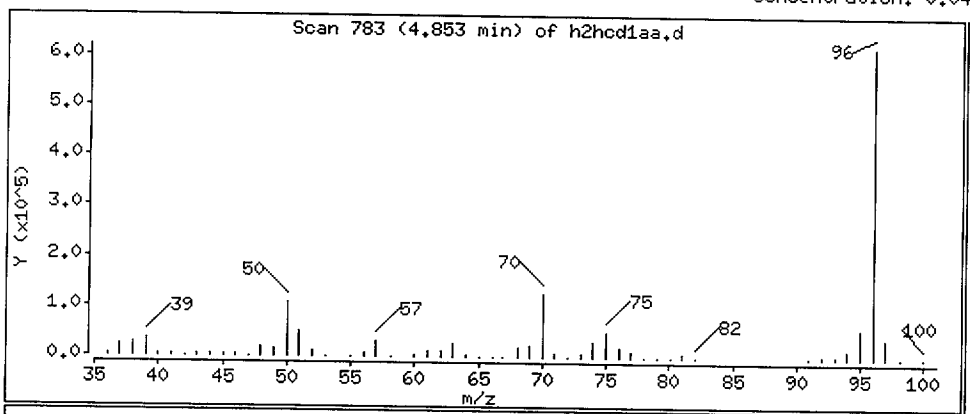
Operator: 22980

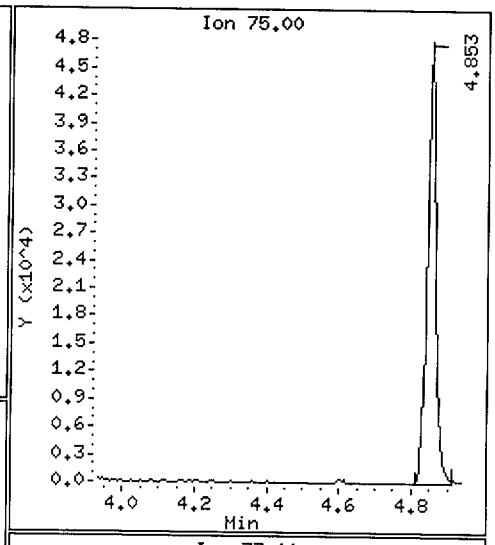
Column phase: J+W 624

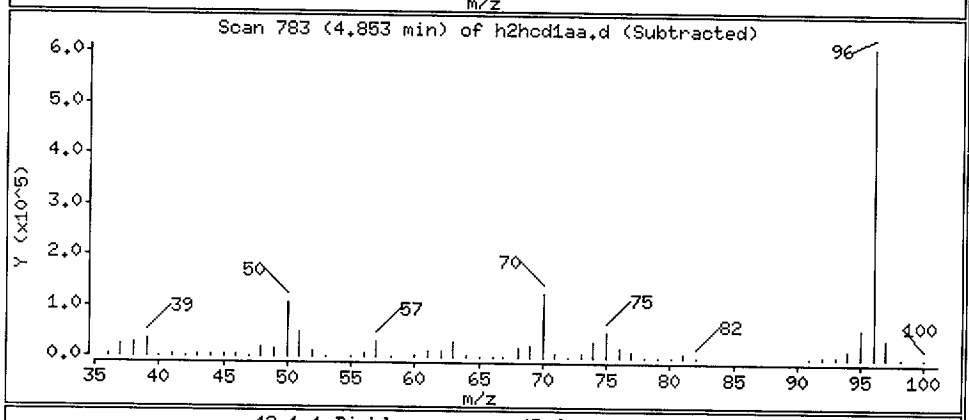
Column diameter: 0.18

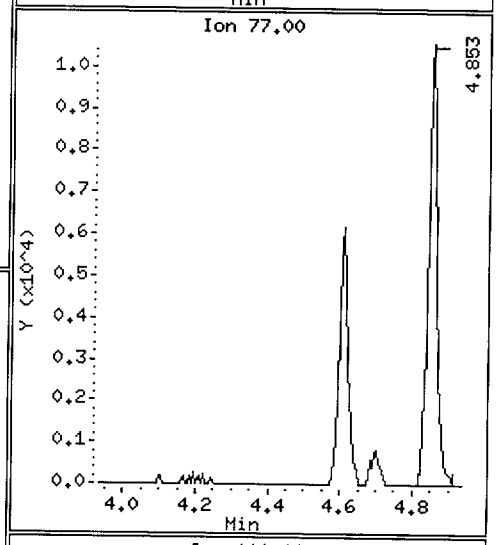
42 1,1-Dichloropropene

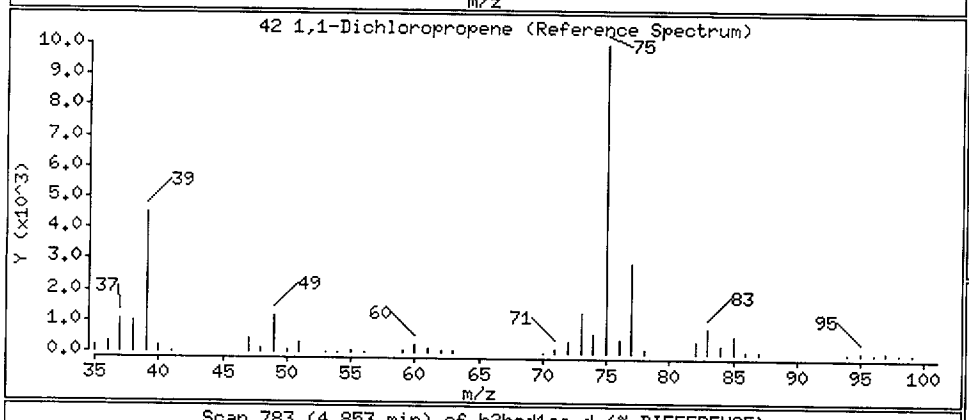
Concentration: 0.049060 ug

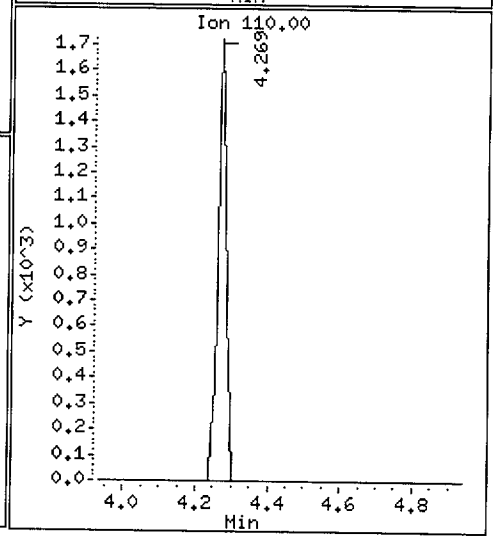


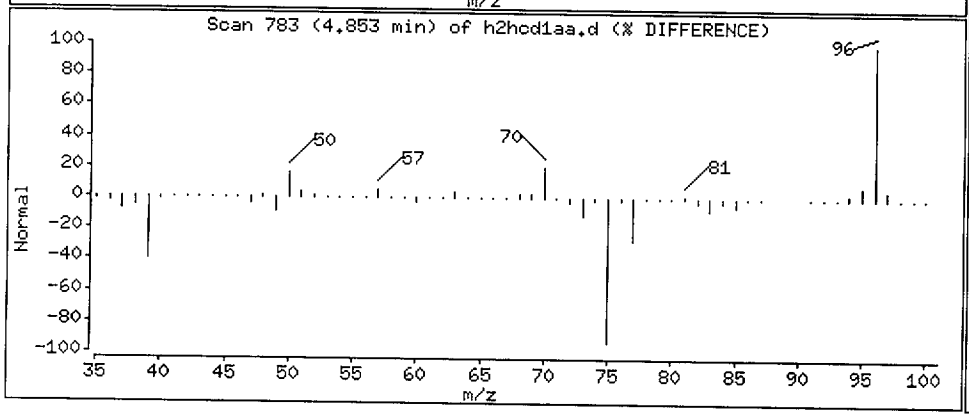












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

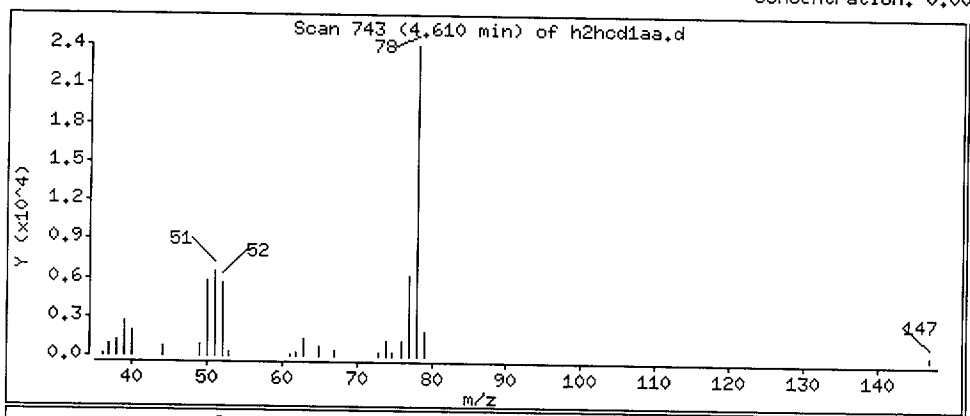
Operator: 22980

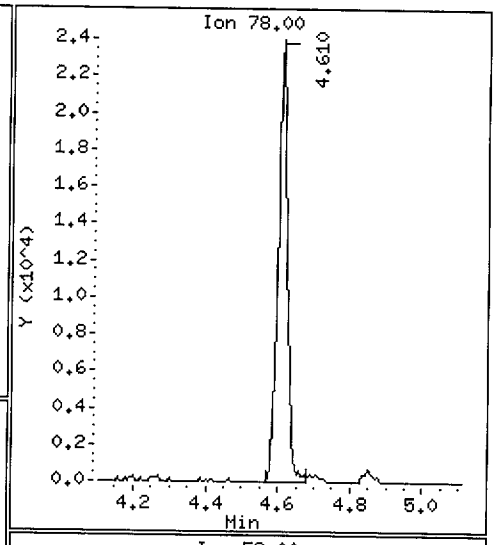
Column phase: J+W 624

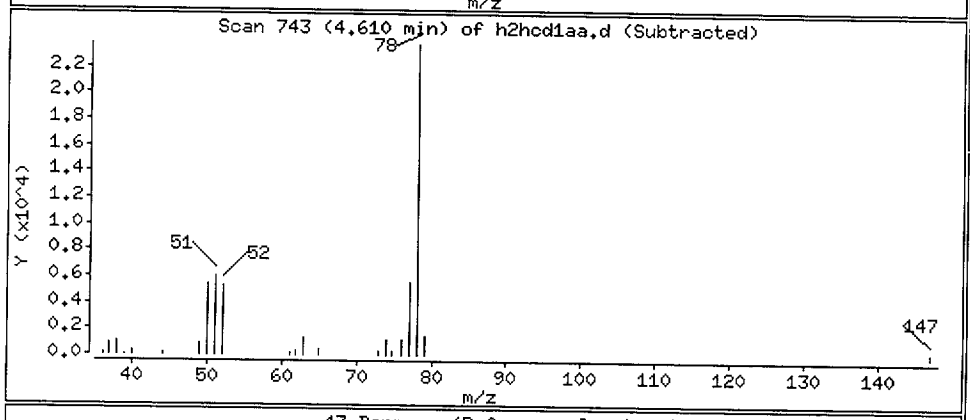
Column diameter: 0.18

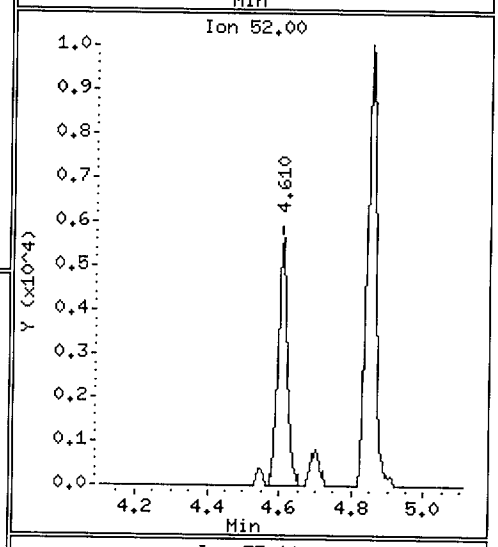
43 Benzene

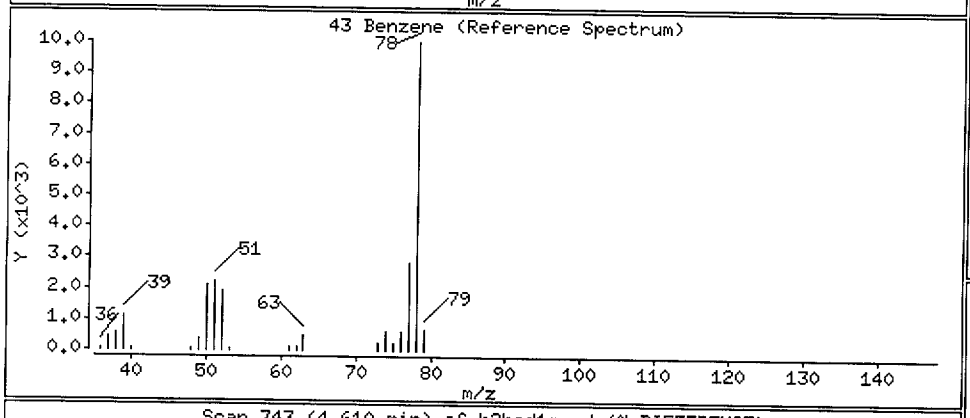
Concentration: 0.0099951 ug

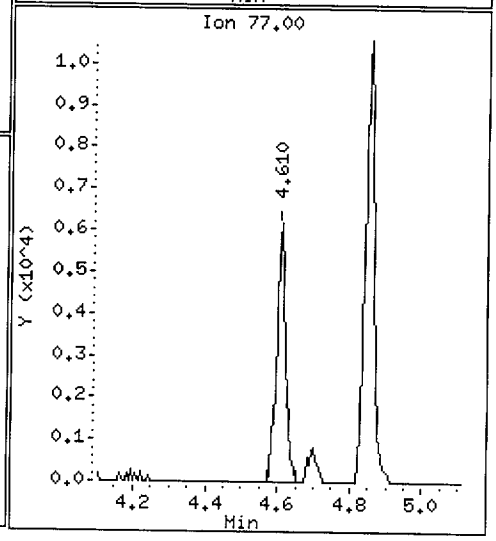


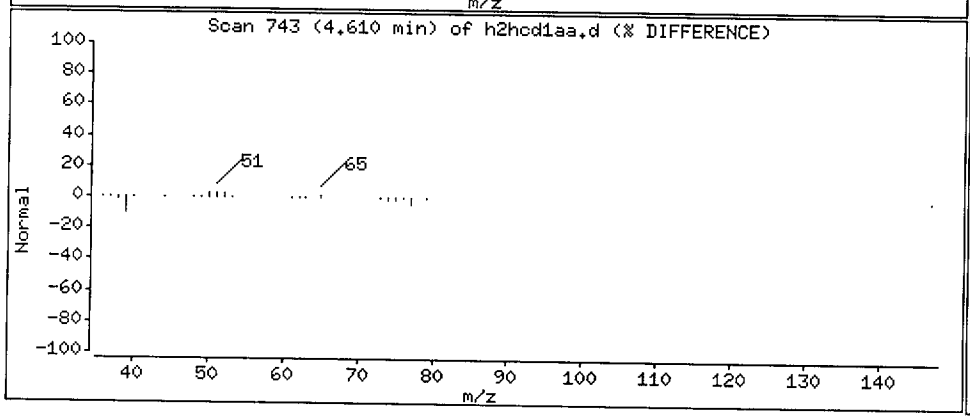












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

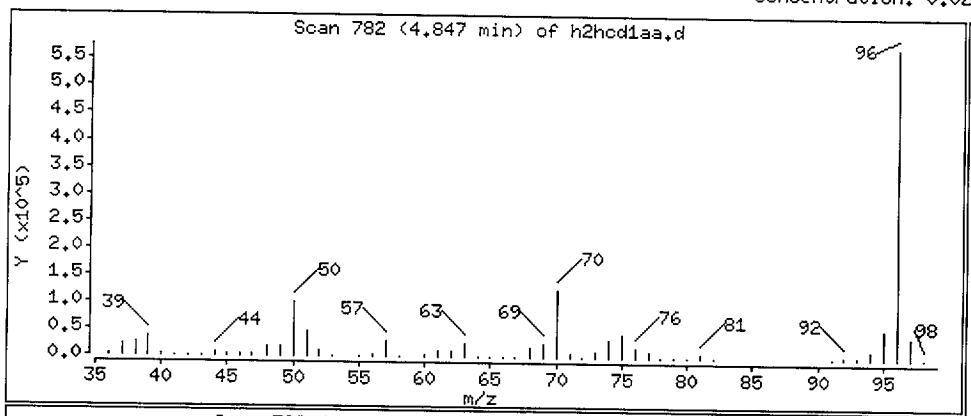
Operator: 22980

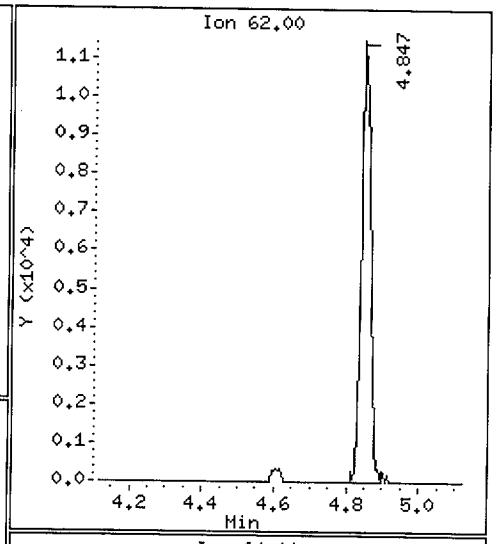
Column phase: J+W 624

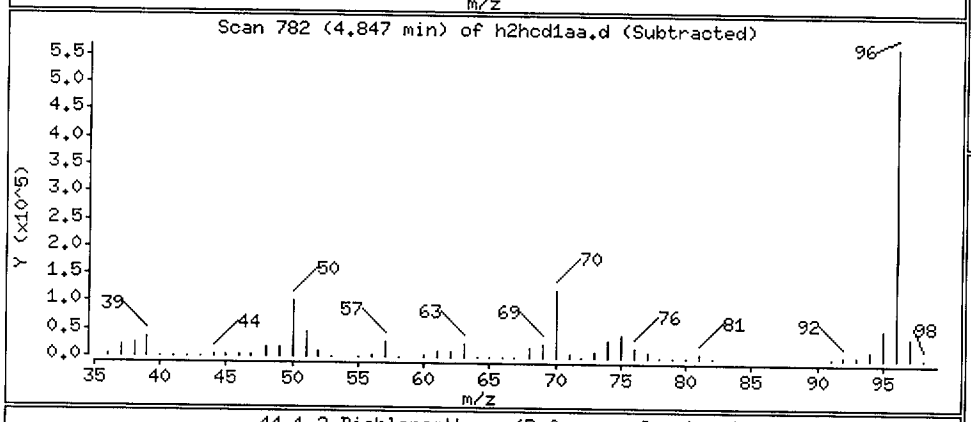
Column diameter: 0.18

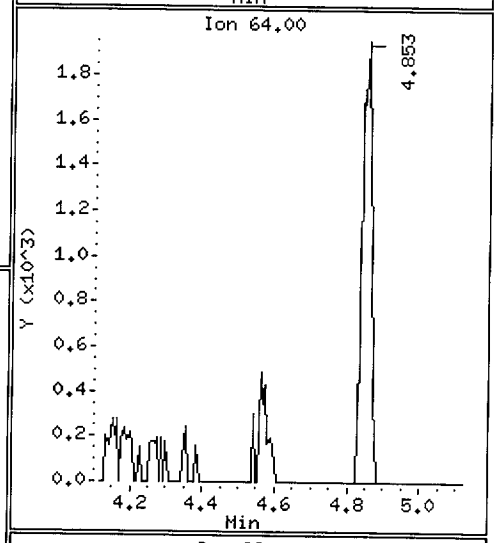
44 1,2-Dichloroethane

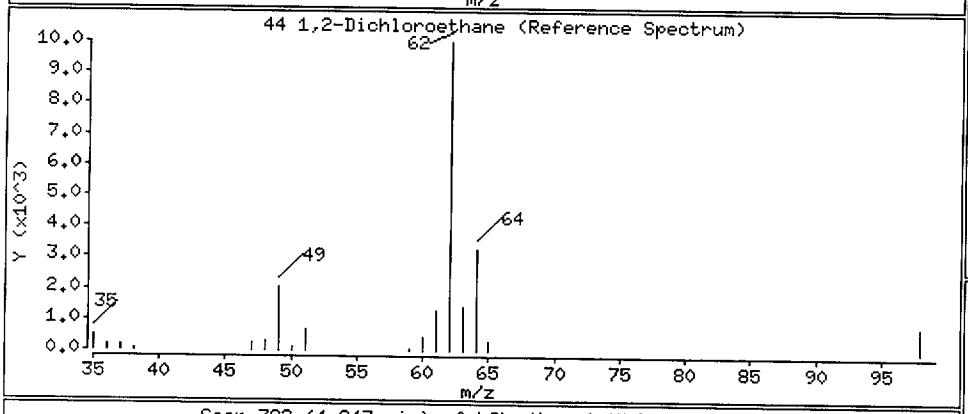
Concentration: 0.026194 ug

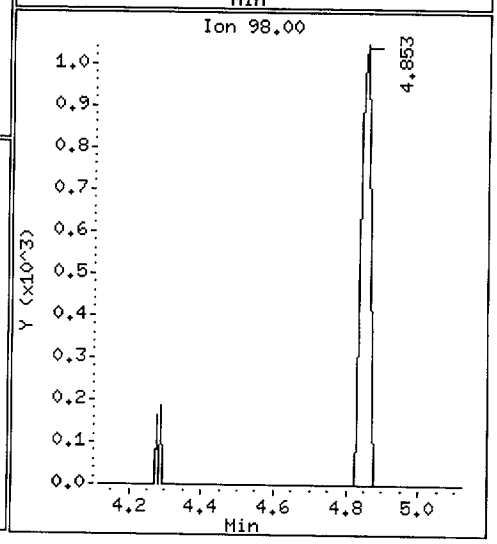


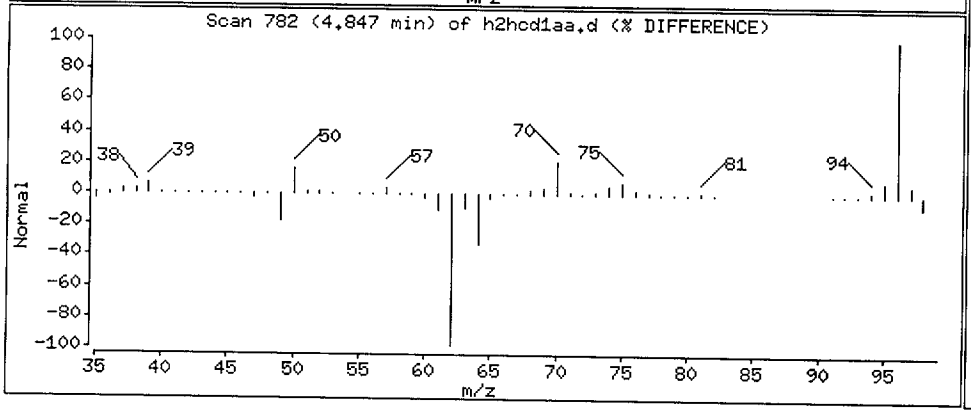












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

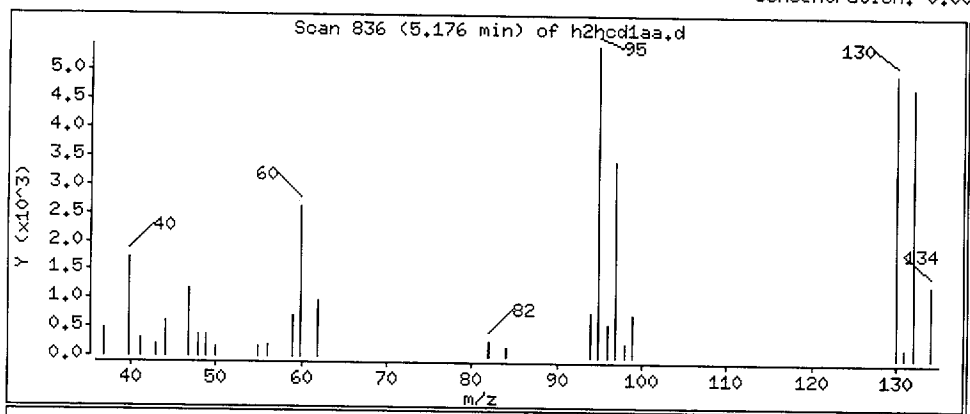
Operator: 22980

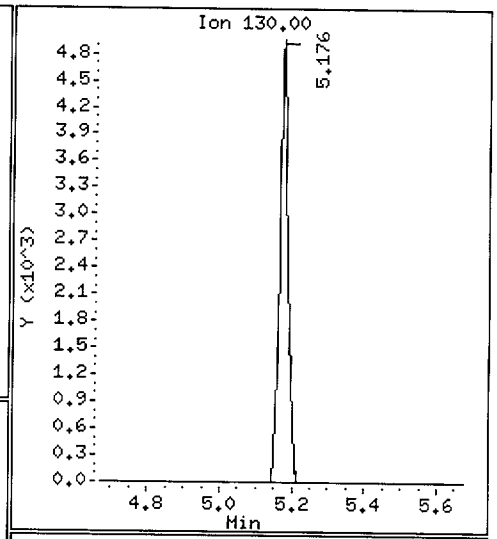
Column phase: J+W 624

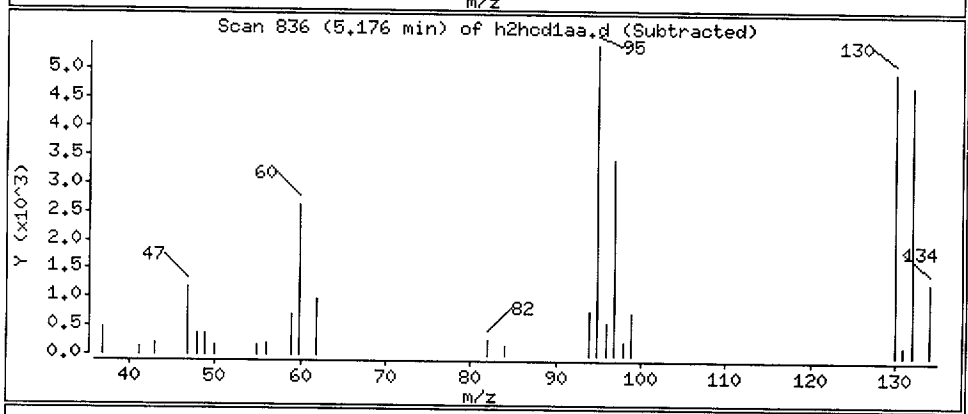
Column diameter: 0.18

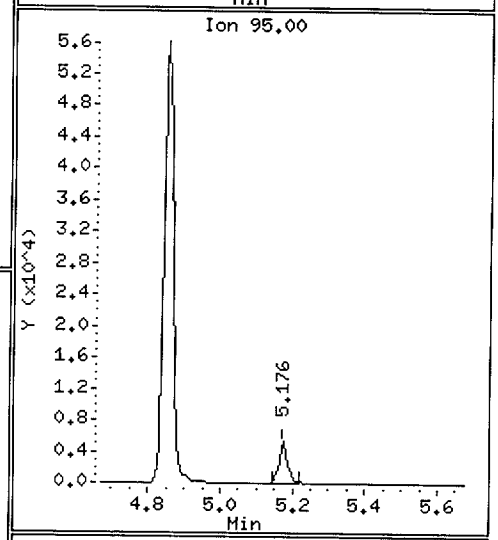
45 Trichloroethene

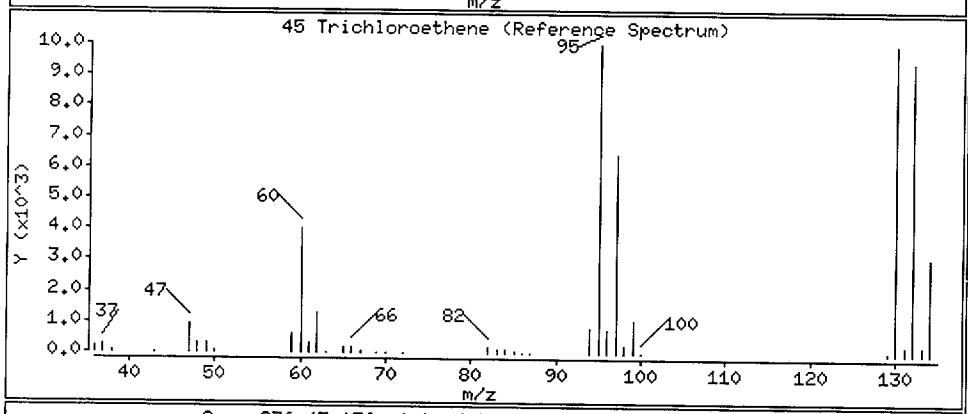
Concentration: 0.0069154 ug

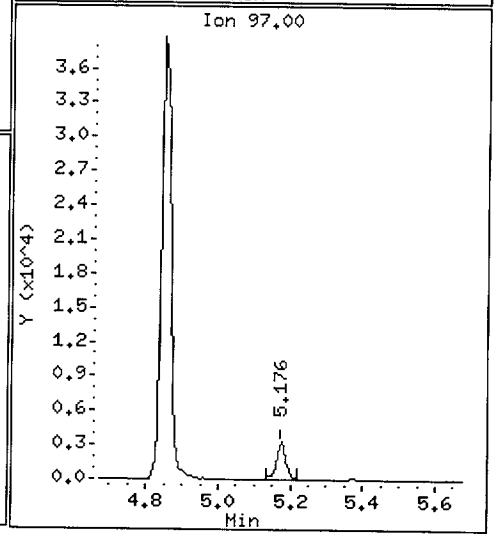


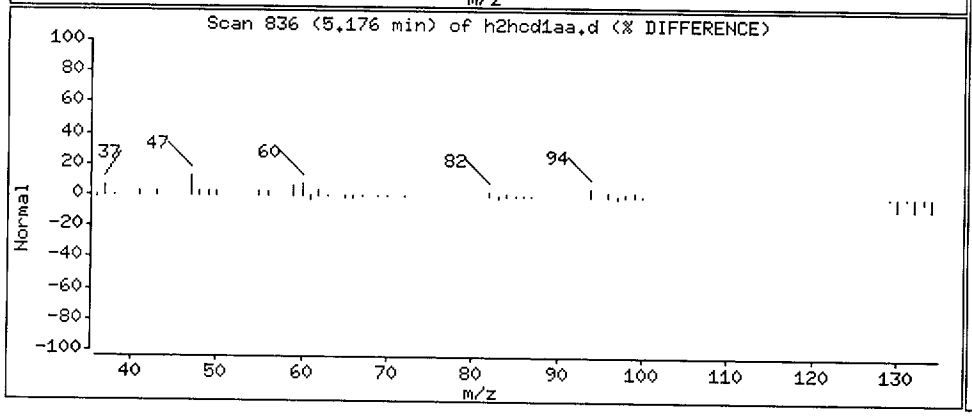












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

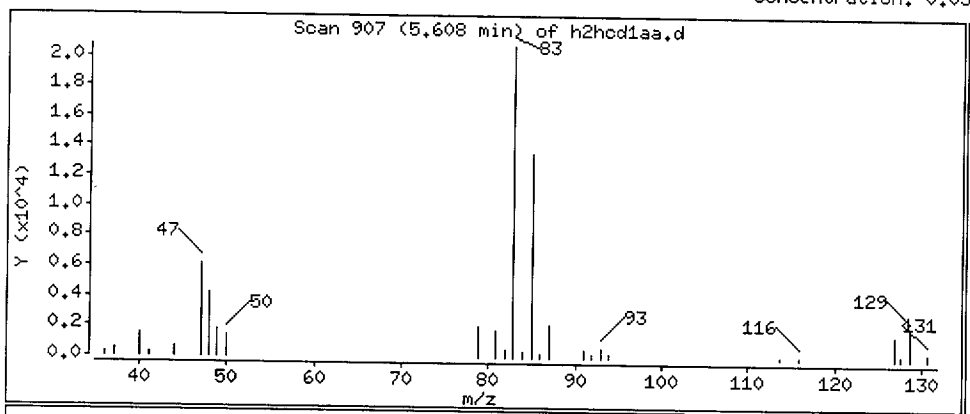
Operator: 22980

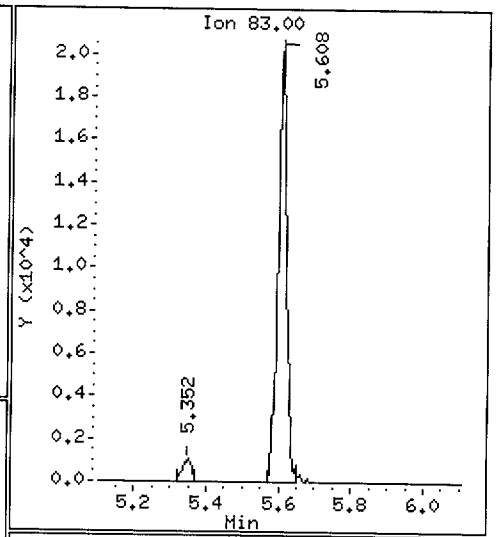
Column phase: J+W 624

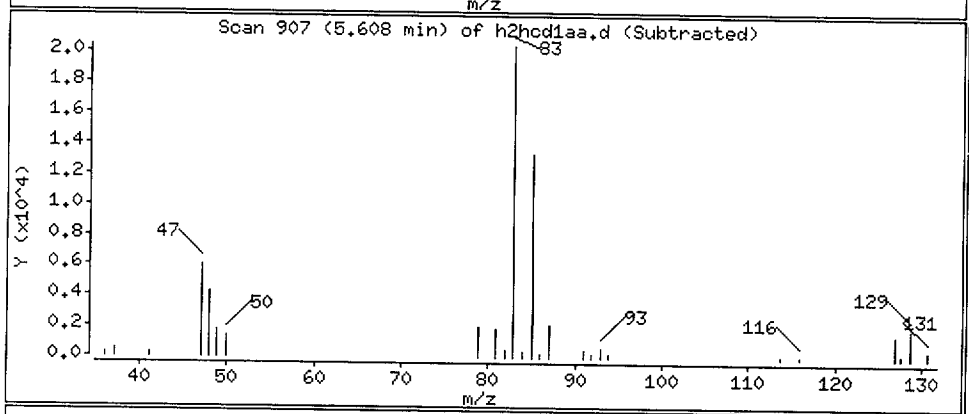
Column diameter: 0.18

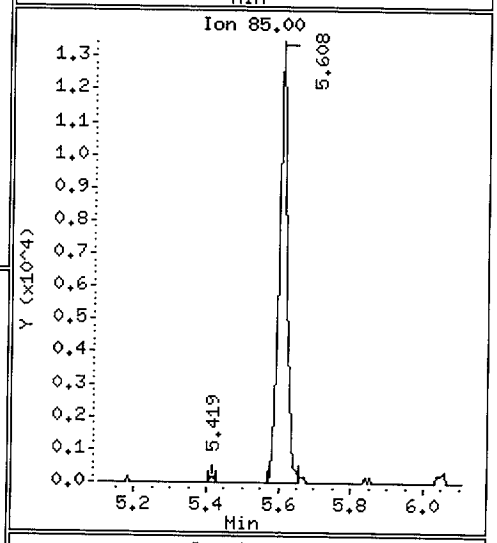
49 Bromodichloromethane

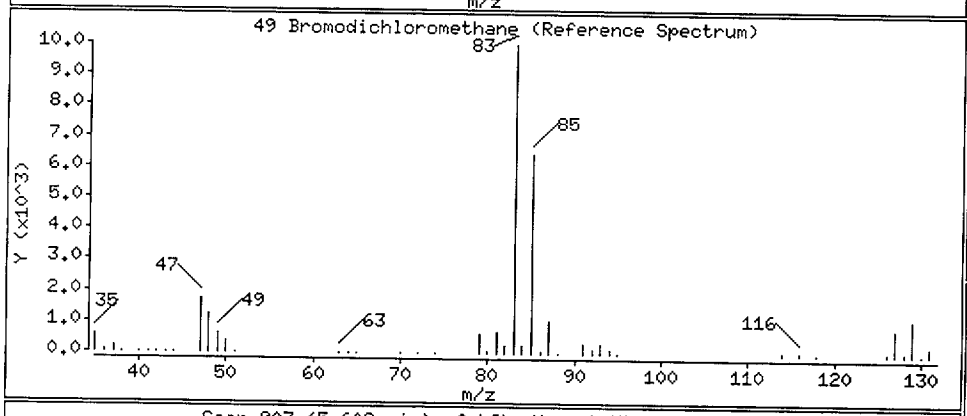
Concentration: 0.037822 ug

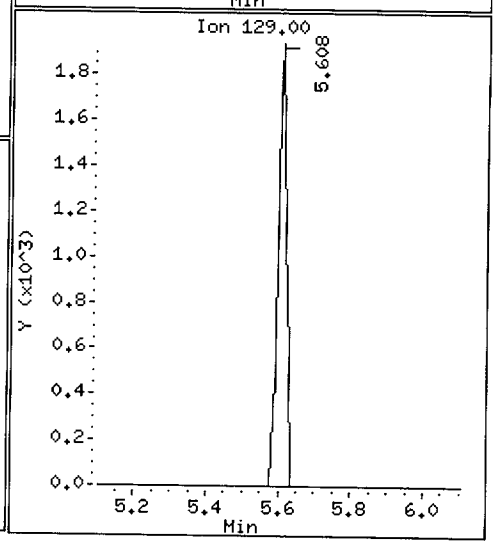


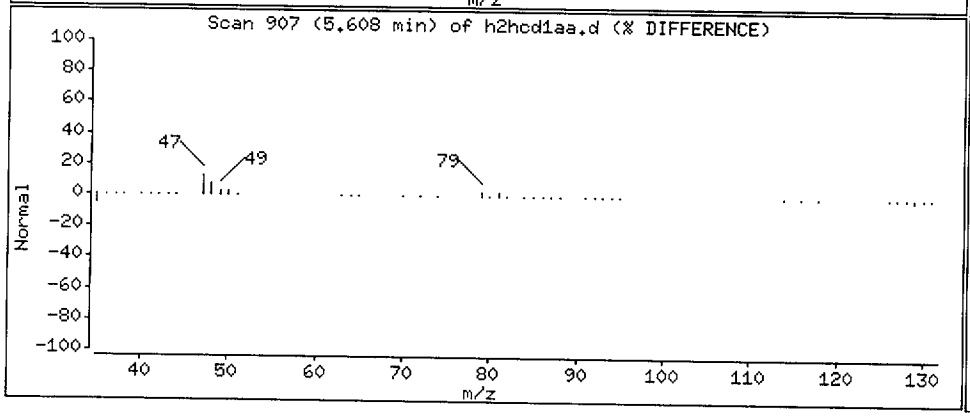












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

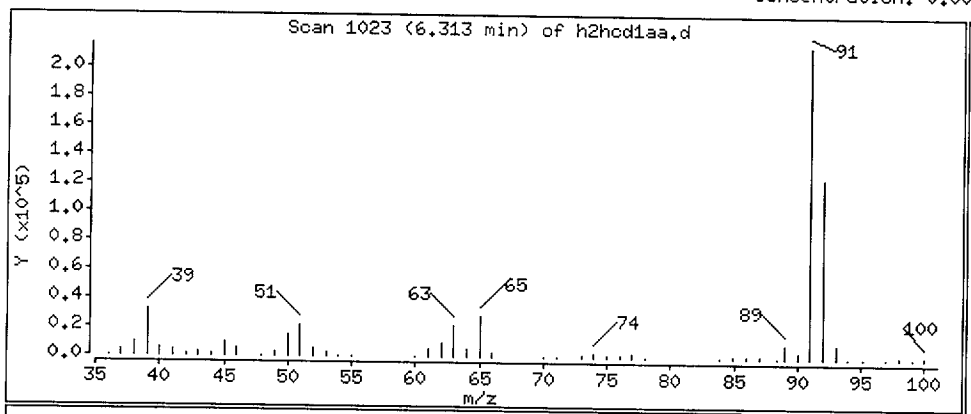
Operator: 22980

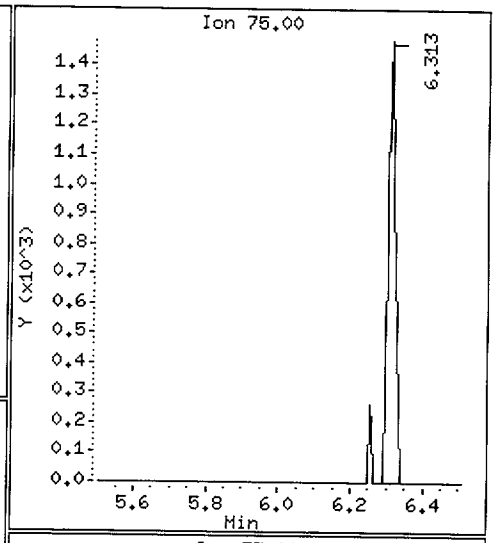
Column phase: J+W 624

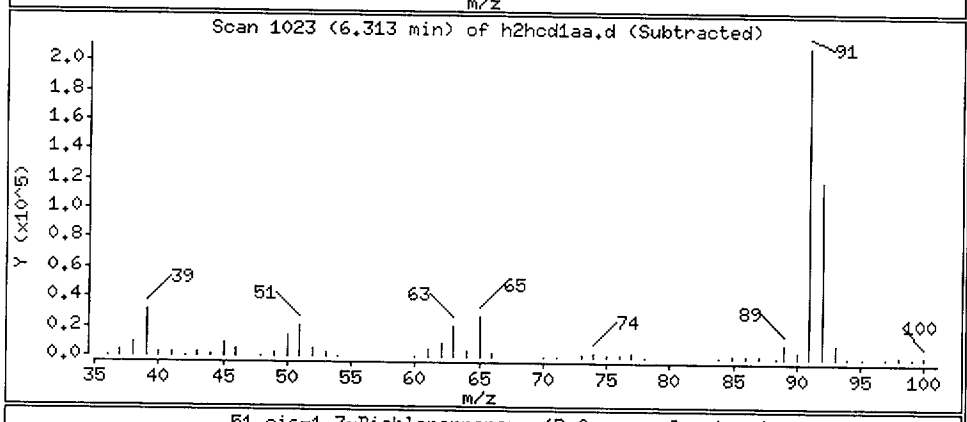
Column diameter: 0.18

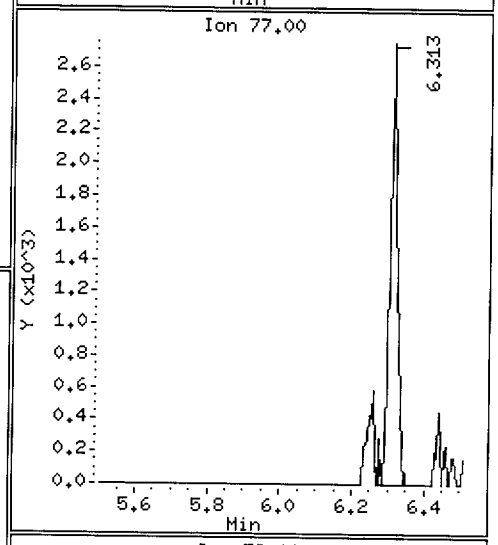
51 cis-1,3-Dichloropropene

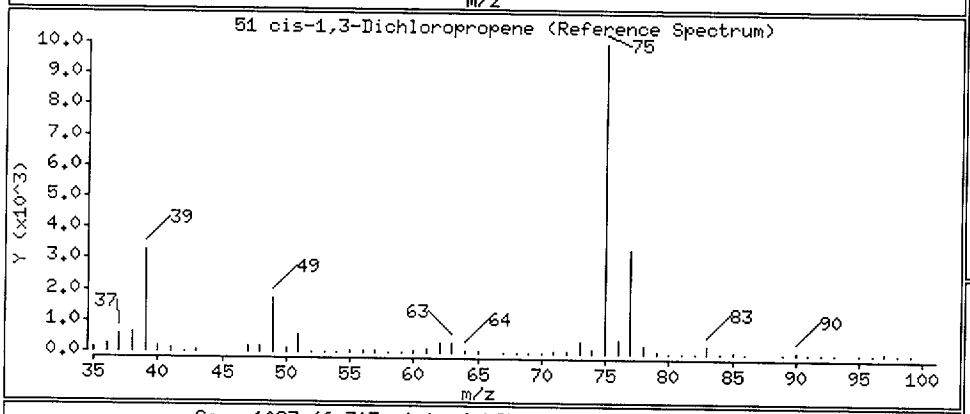
Concentration: 0.0019531 ug

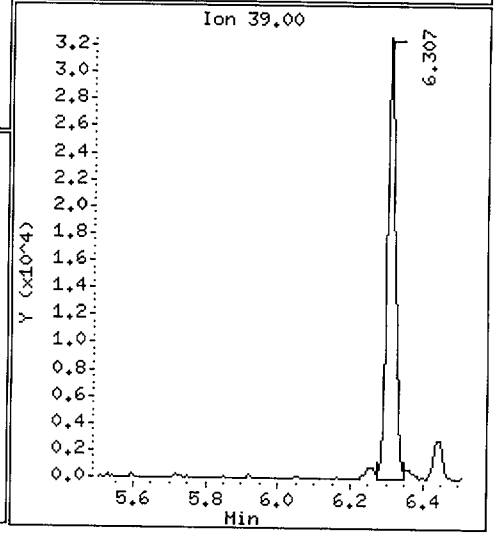


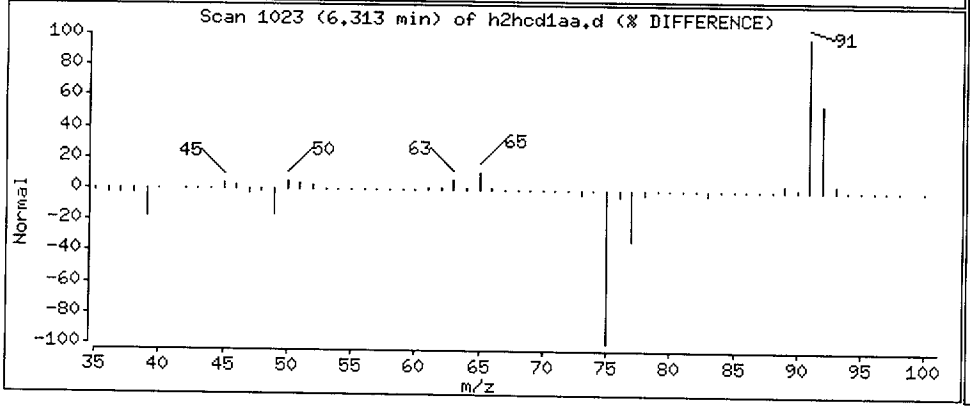












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

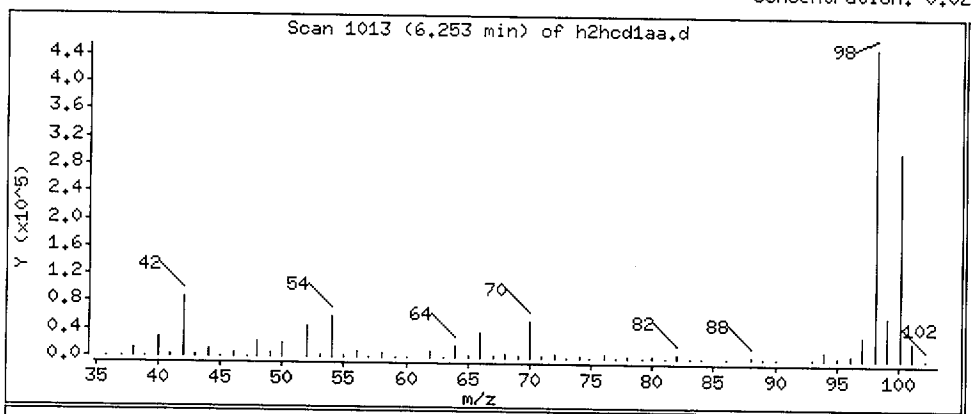
Operator: 22980

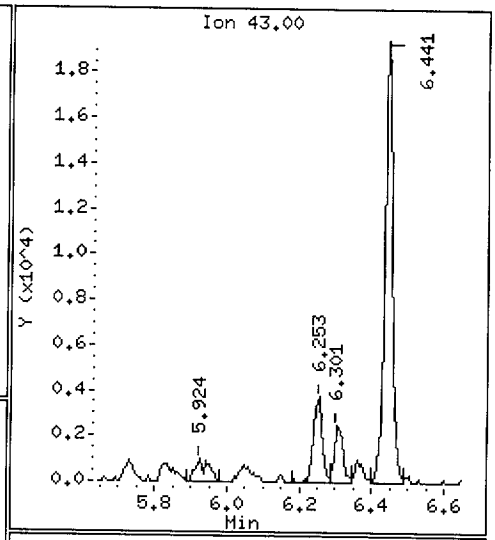
Column phase: J+W 624

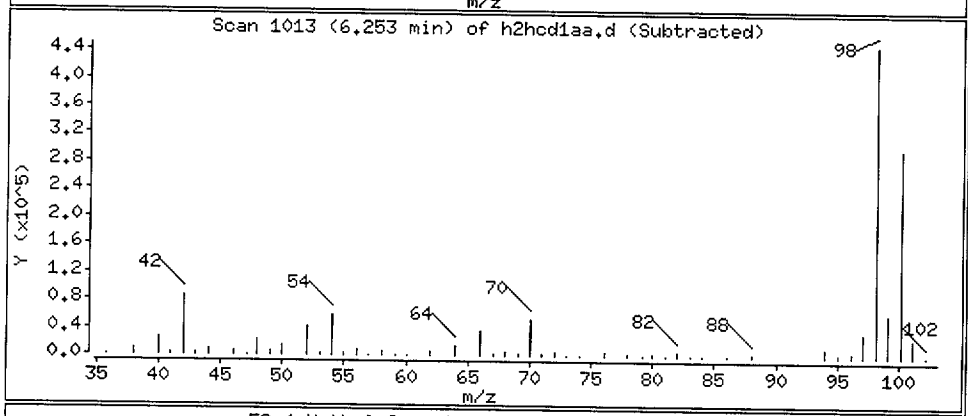
Column diameter: 0.18

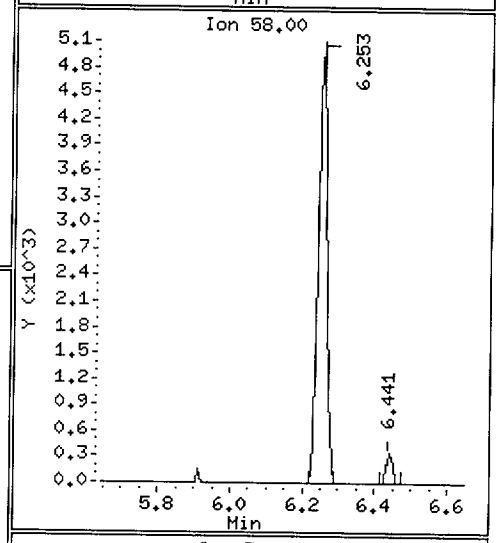
52 4-Methyl-2-pentanone

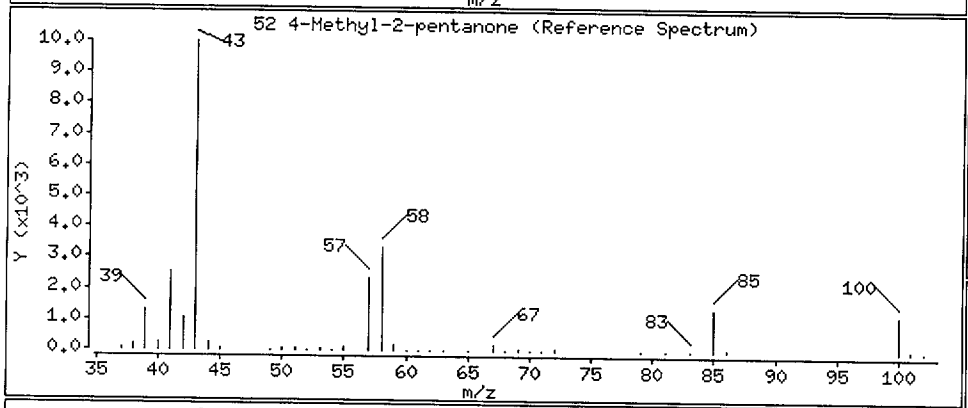
Concentration: 0.027374 ug

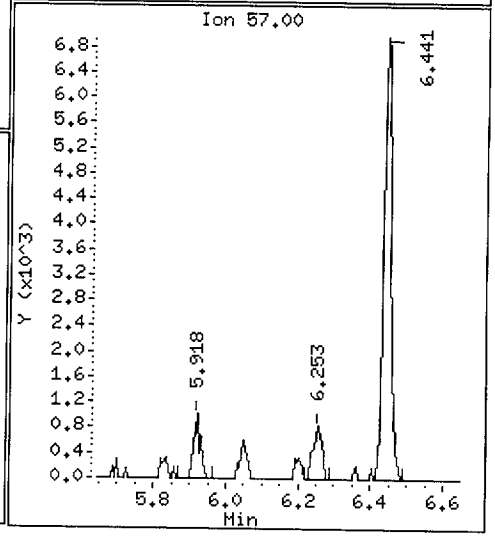


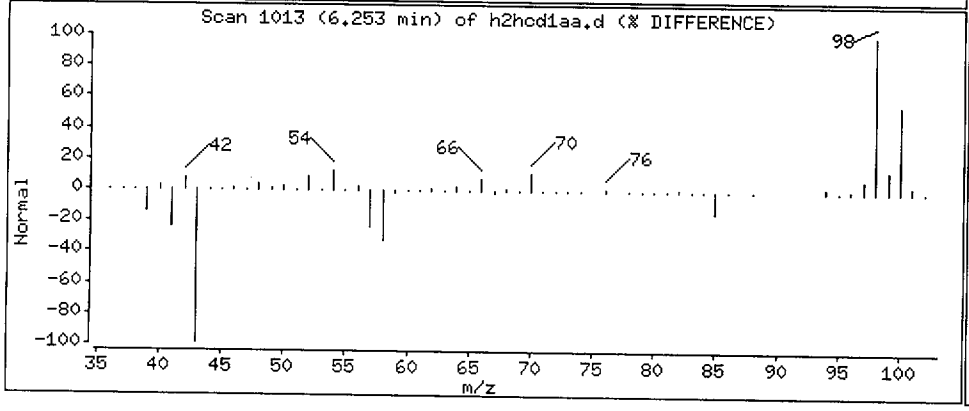












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

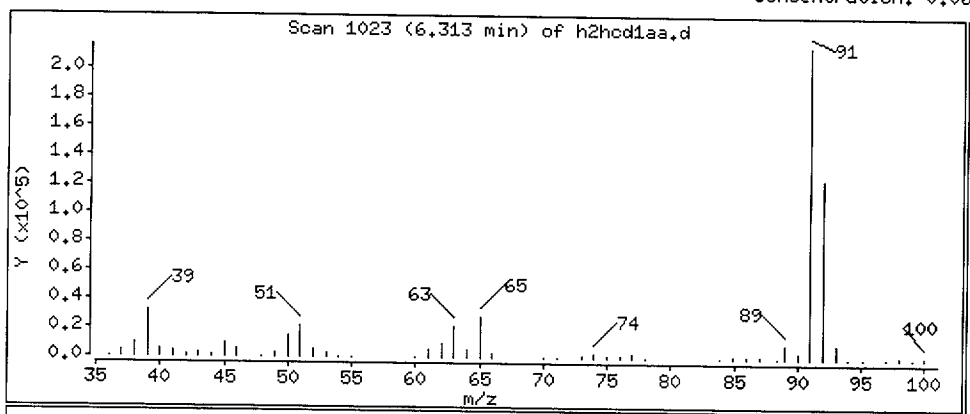
Operator: 22980

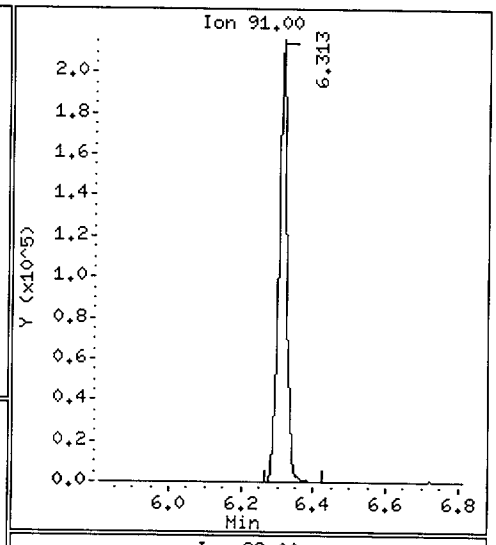
Column phase: J+W 624

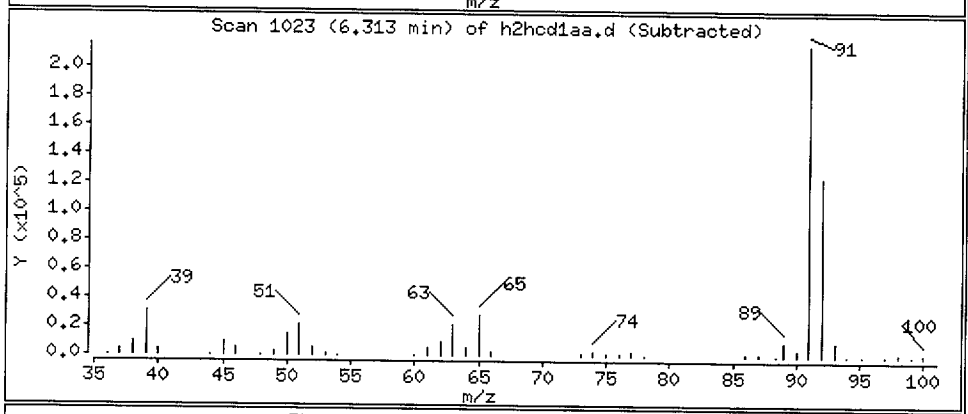
Column diameter: 0.18

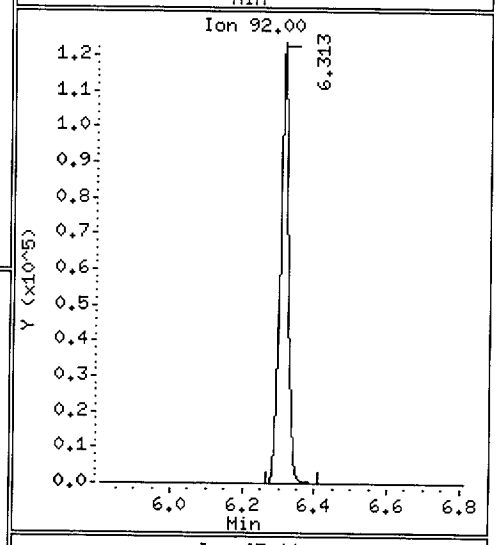
53 Toluene (ccc)

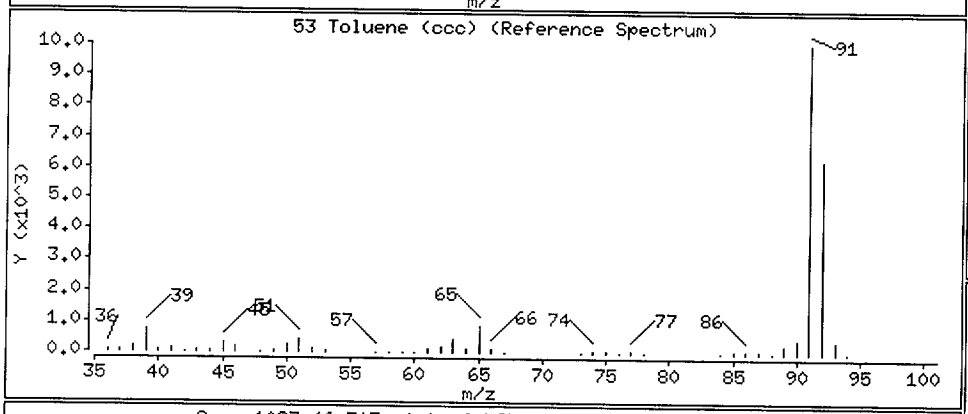
Concentration: 0.068086 ug

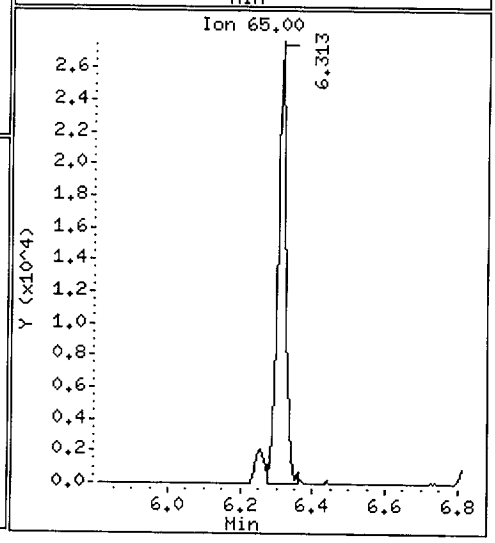


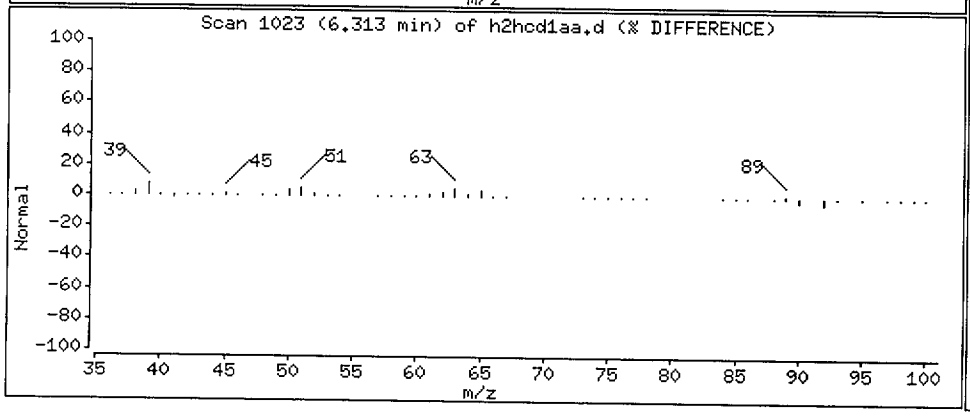












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

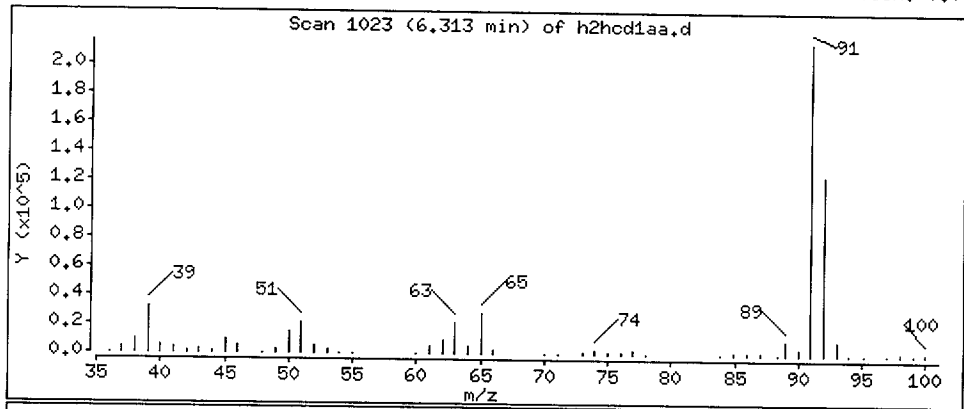
Operator: 22980

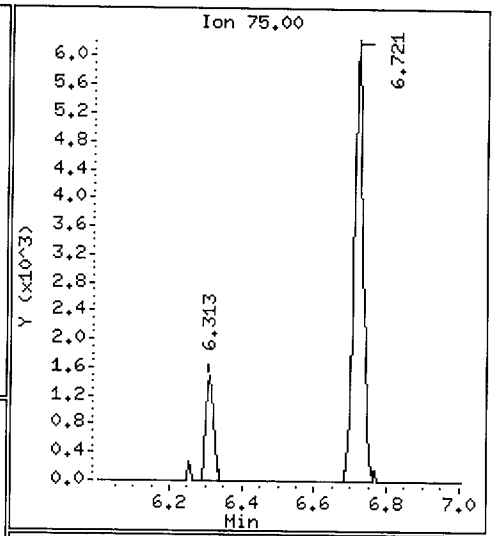
Column phase: J+W 624

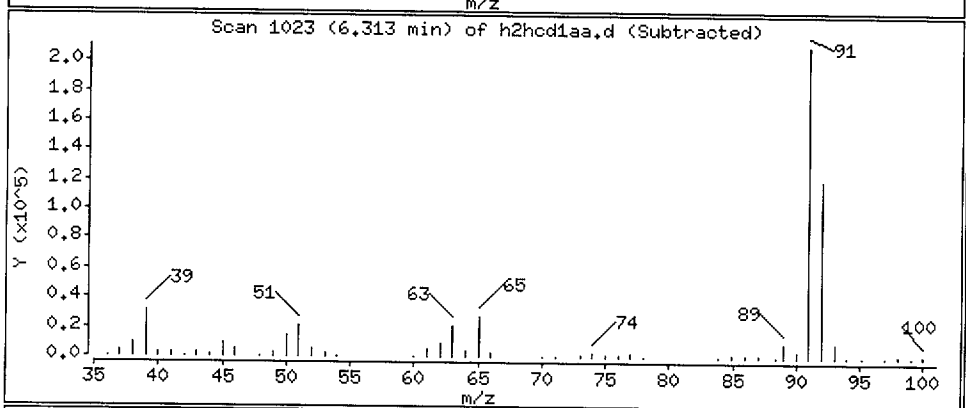
Column diameter: 0.18

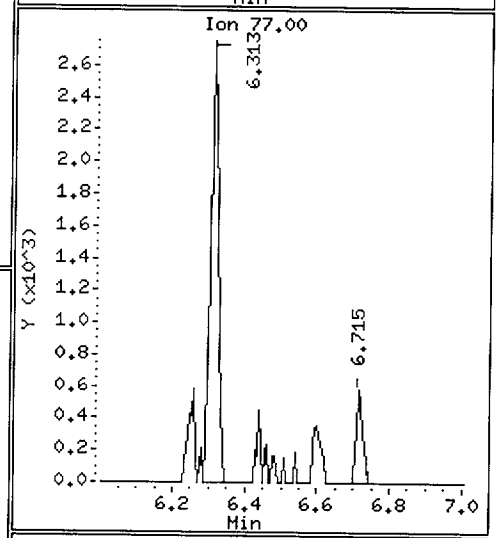
54 trans-1,3-Dichloropropene

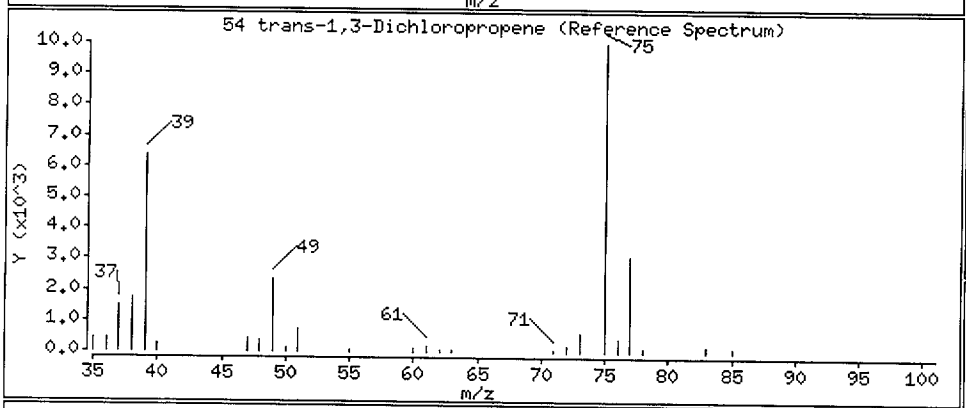
Concentration: 0.0023470 ug

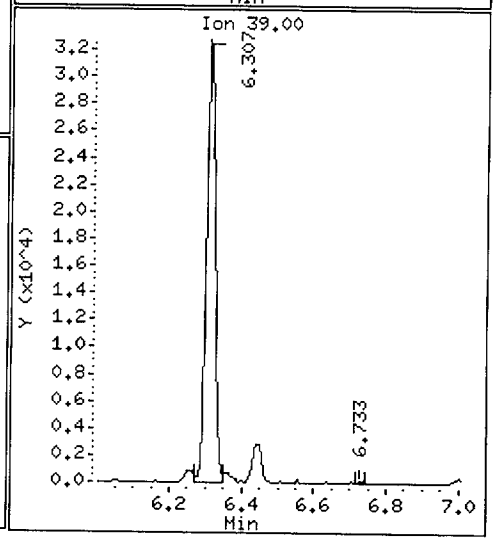


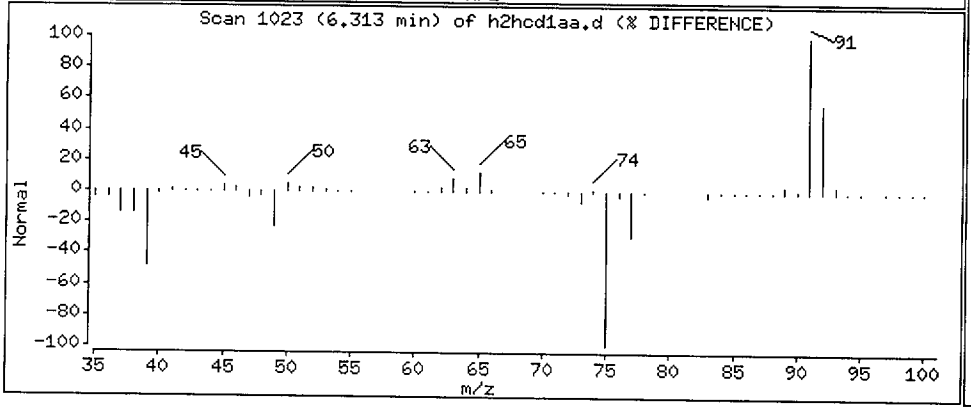












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

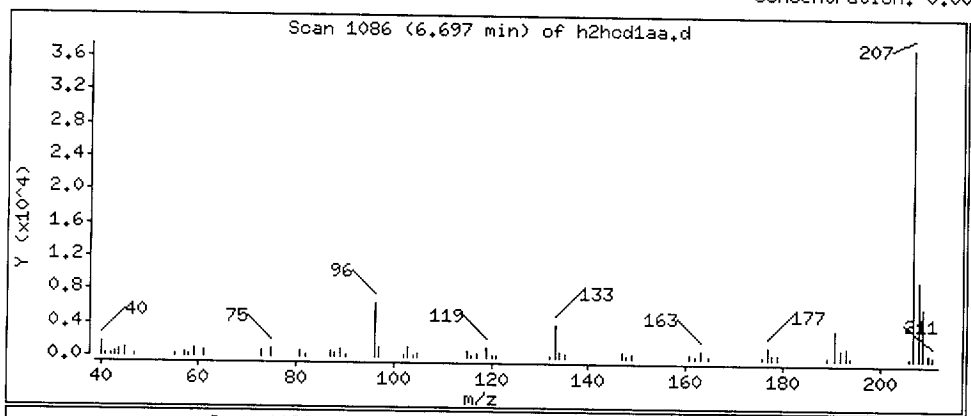
Operator: 22980

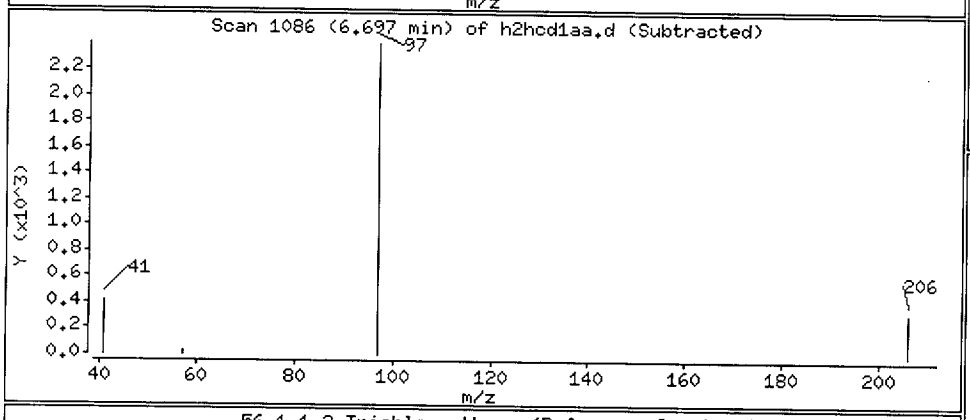
Column phase: J+W 624

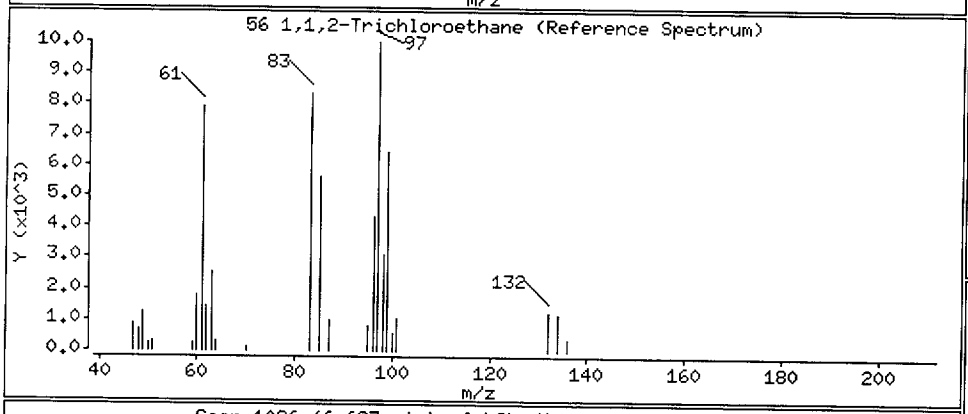
Column diameter: 0.18

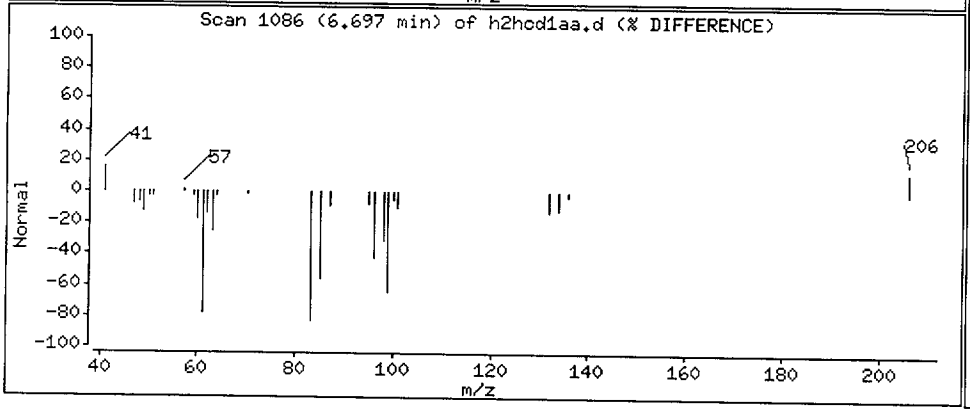
56 1,1,2-Trichloroethane

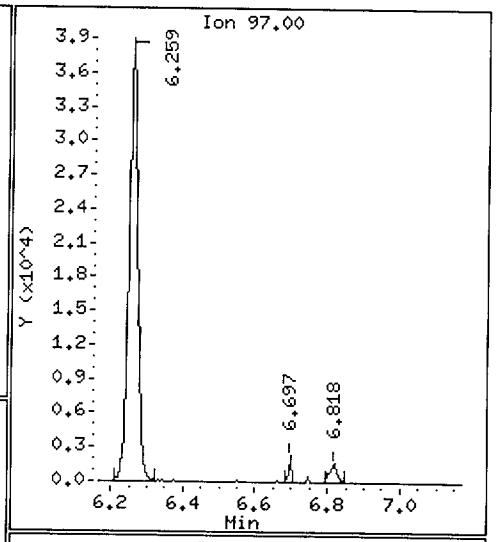
Concentration: 0.0027086 ug

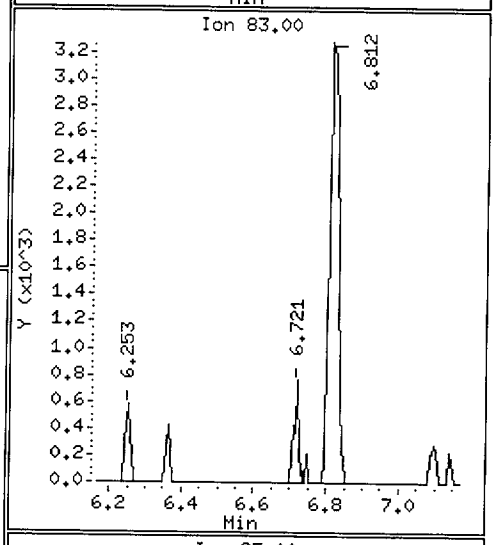


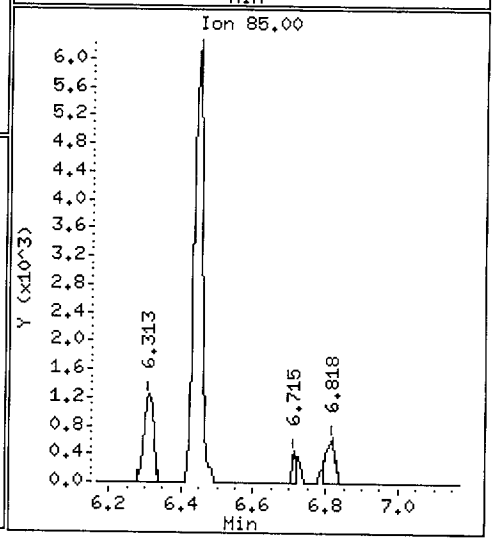












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

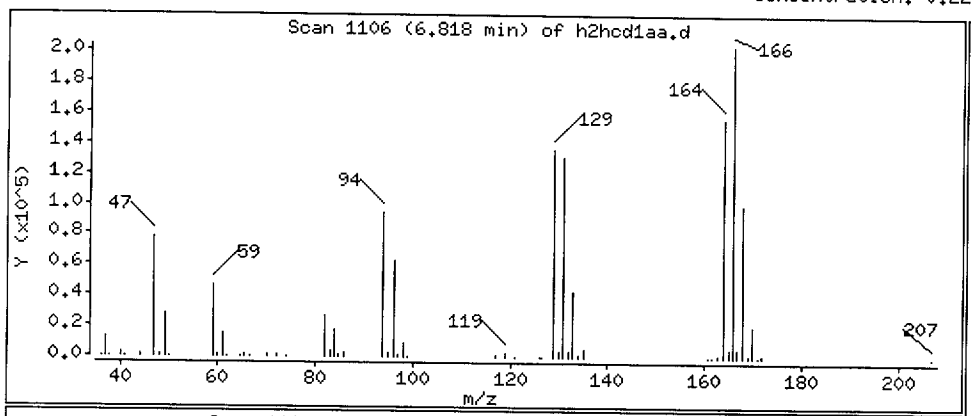
Operator: 22980

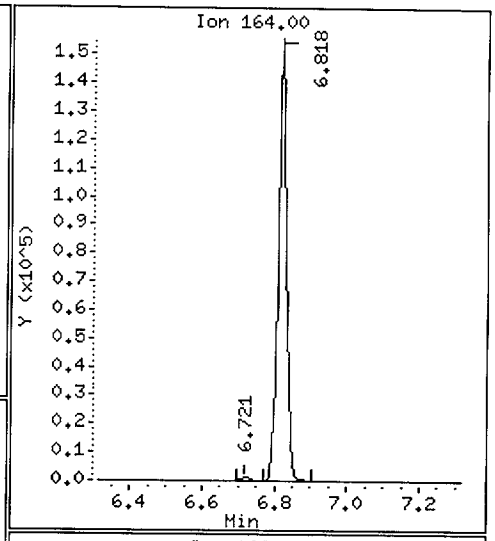
Column phase: J+W 624

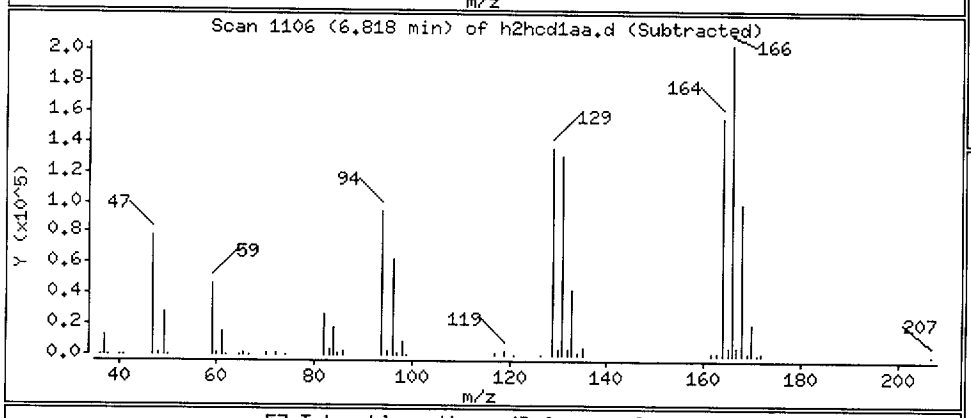
Column diameter: 0.18

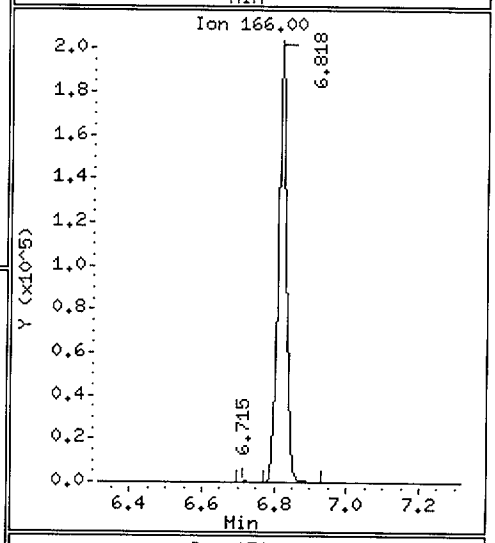
57 Tetrachloroethene

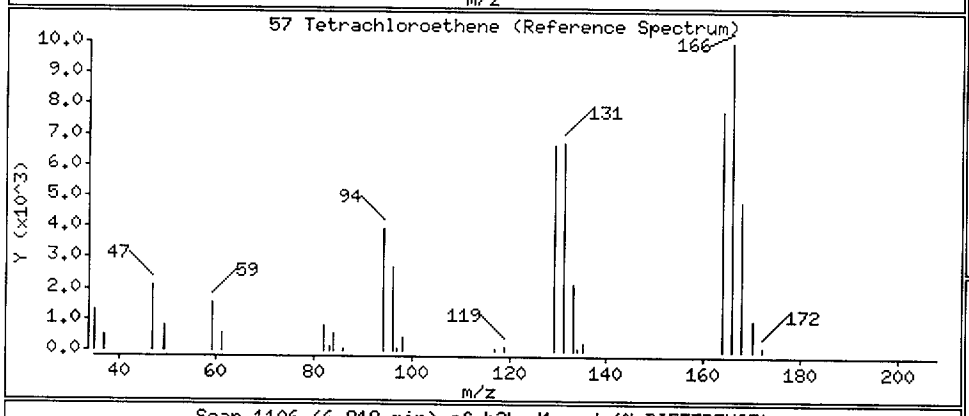
Concentration: 0.22590 ug

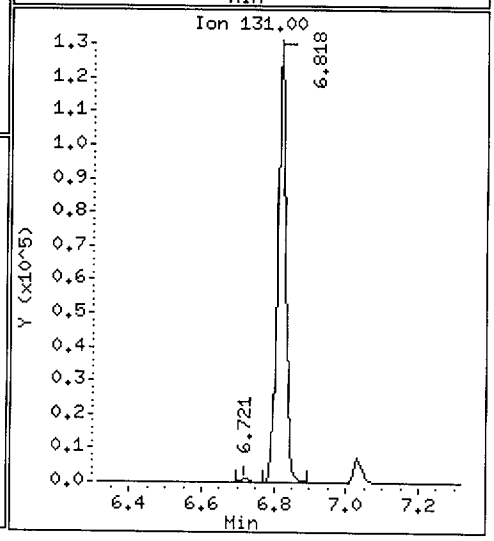


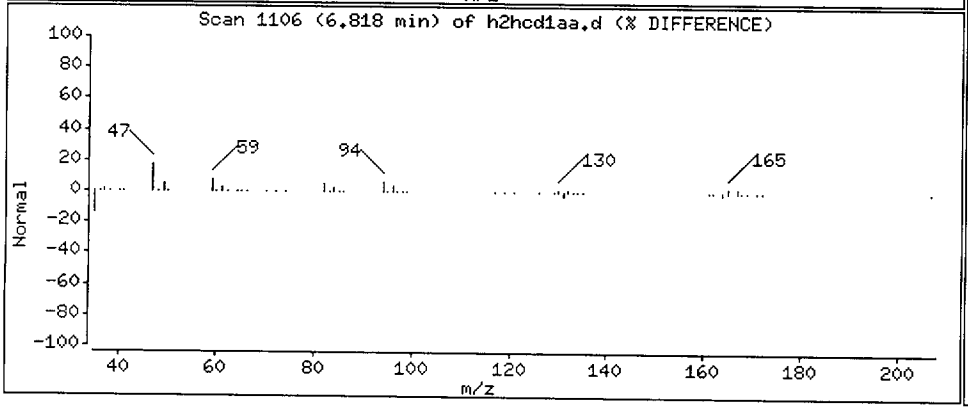












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

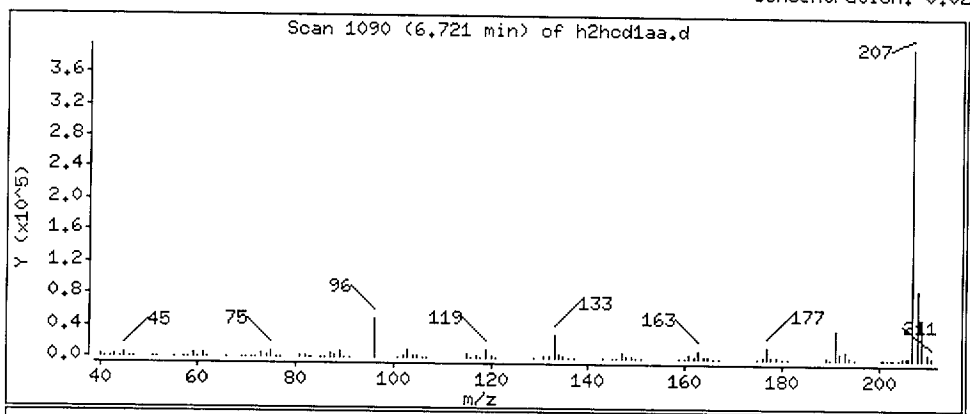
Operator: 22980

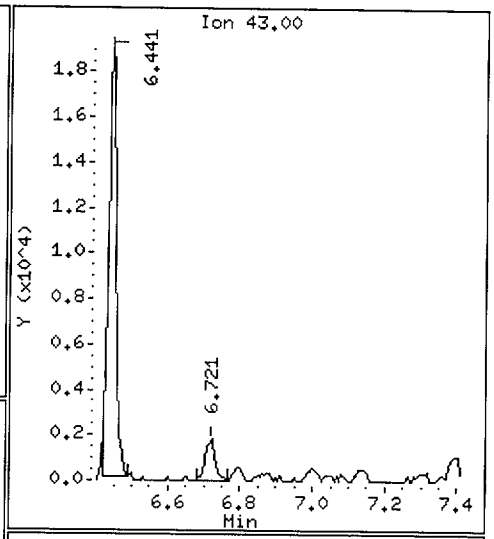
Column phase: J+W 624

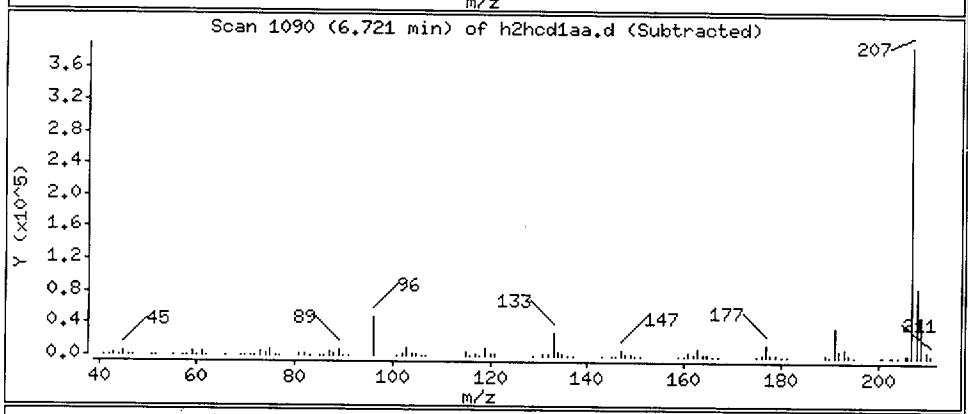
Column diameter: 0.18

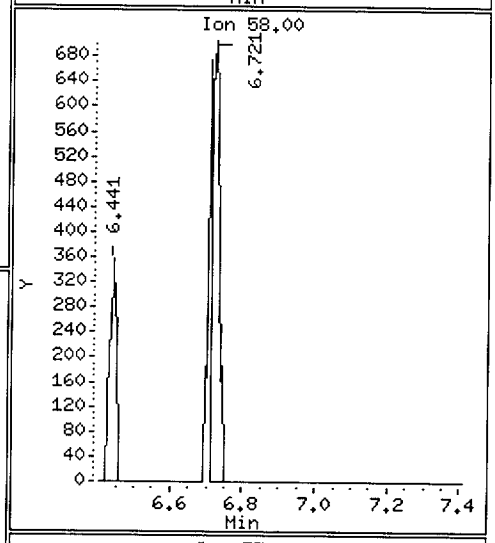
59 2-Hexanone

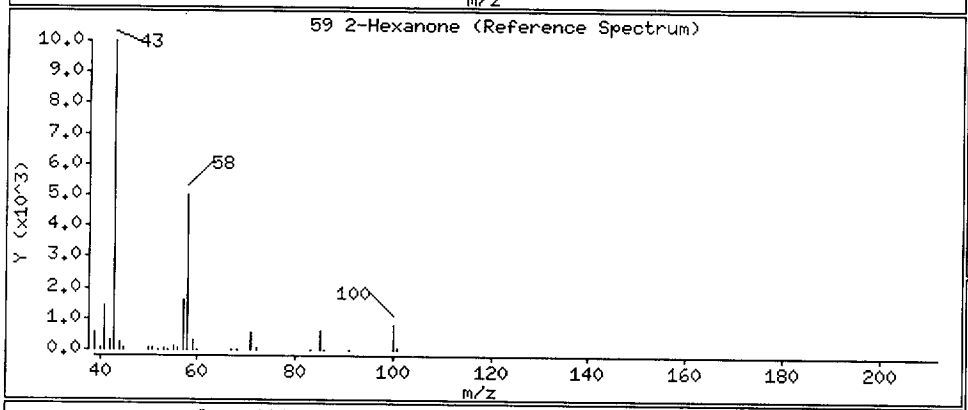
Concentration: 0.020026 ug

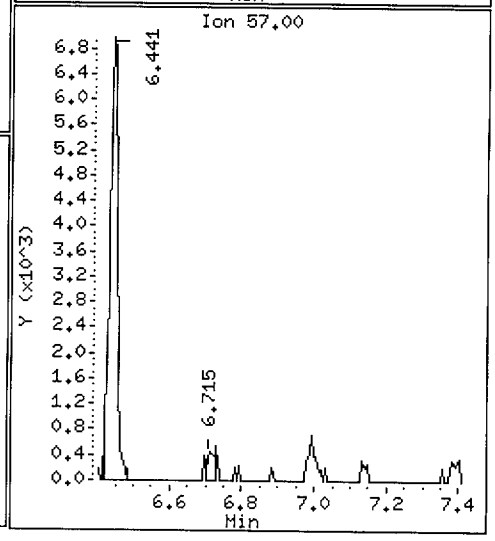


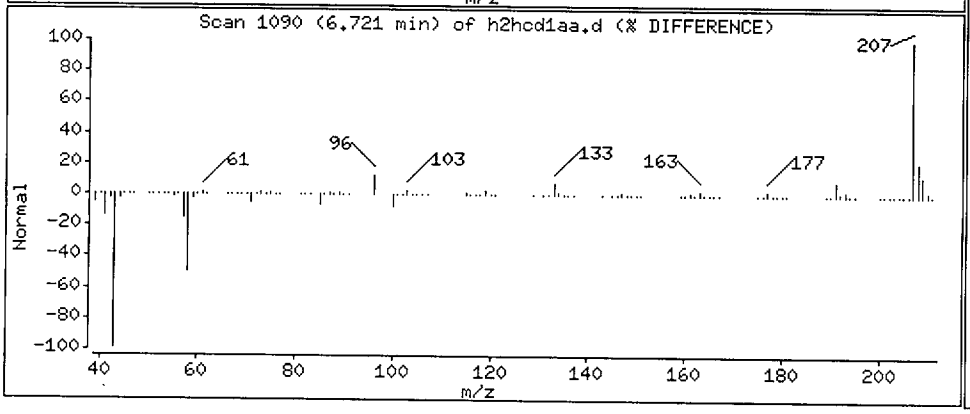












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

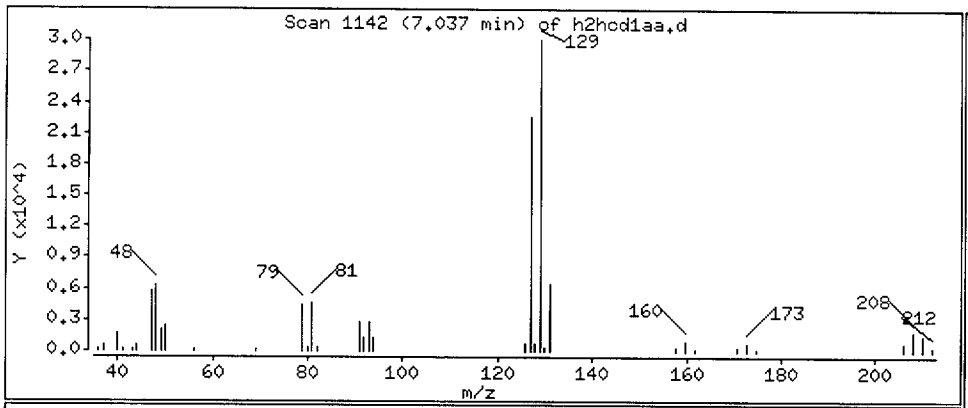
Operator: 22980

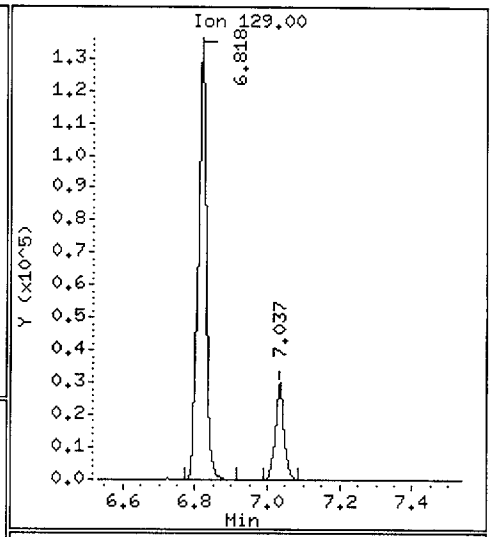
Column phase: J+W 624

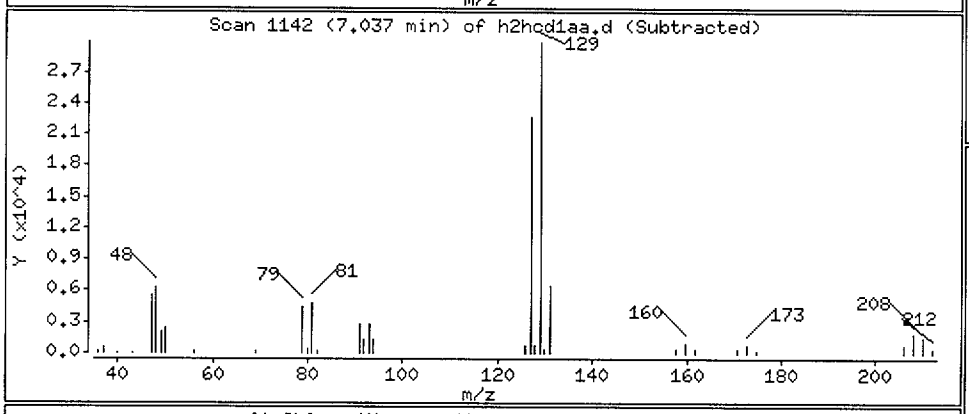
Column diameter: 0.18

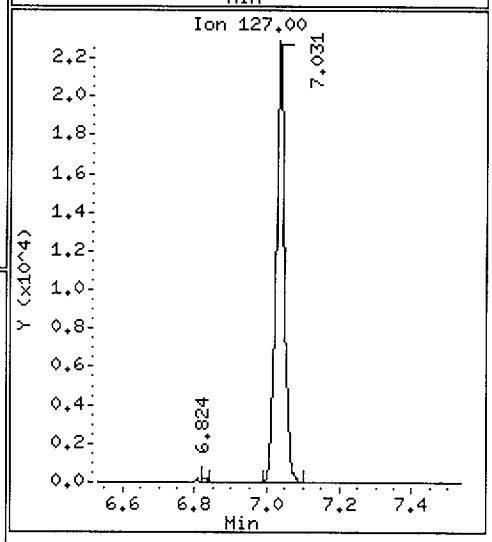
60 Chlorodibromomethane

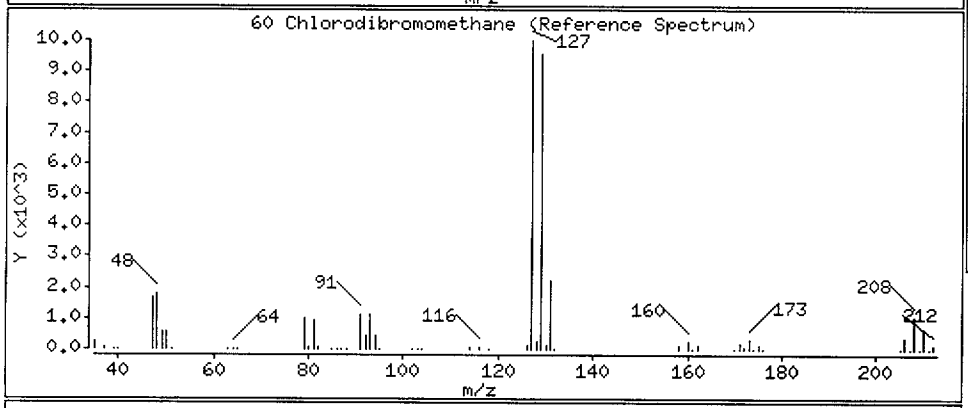
Concentration: 0.099777 ug

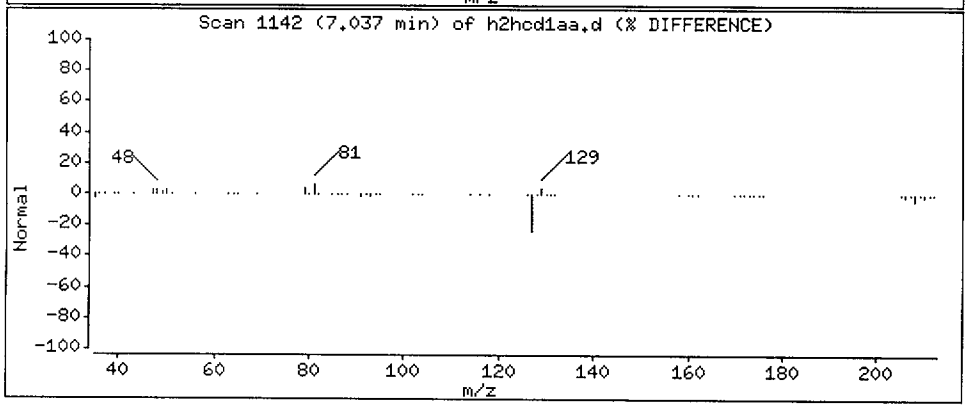












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

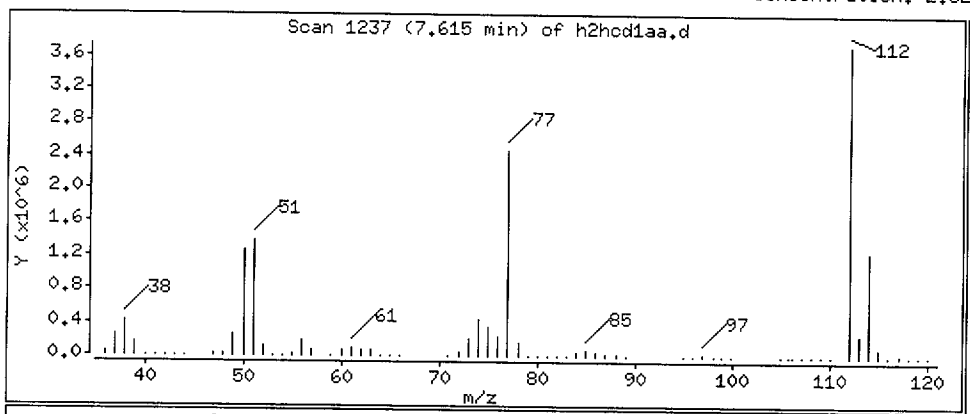
Operator: 22980

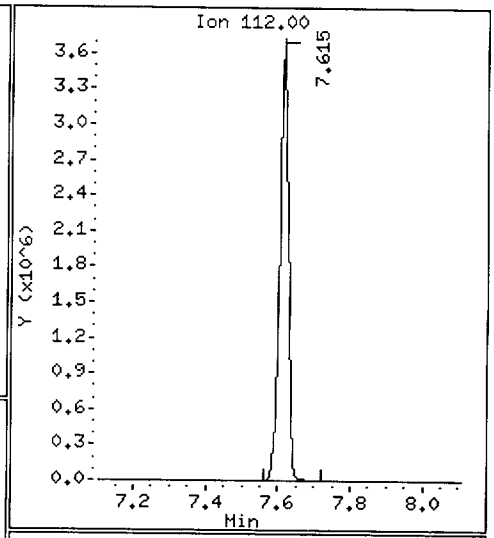
Column phase: J+W 624

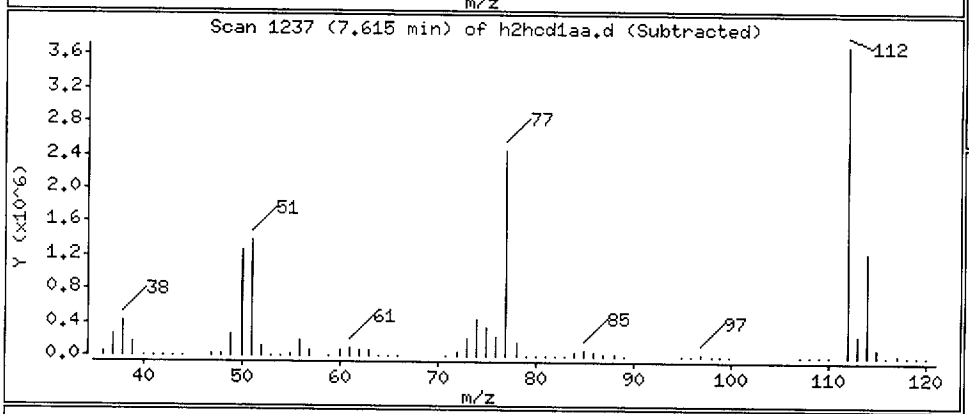
Column diameter: 0.18

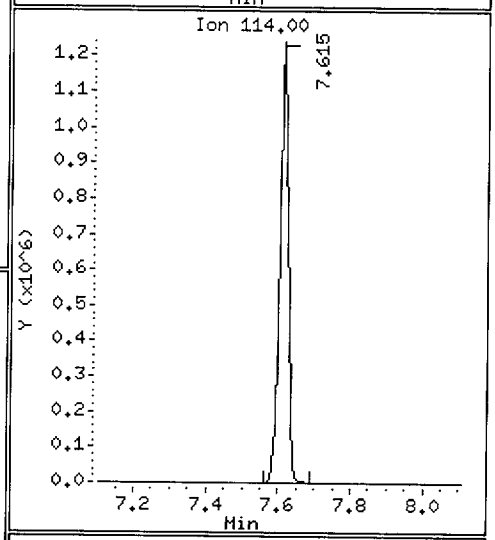
62 Chlorobenzene (spcc)

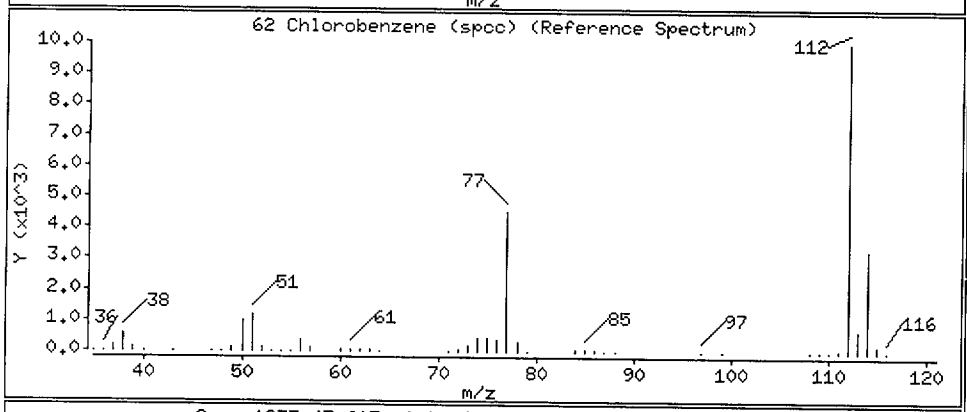
Concentration: 2.3204 ug

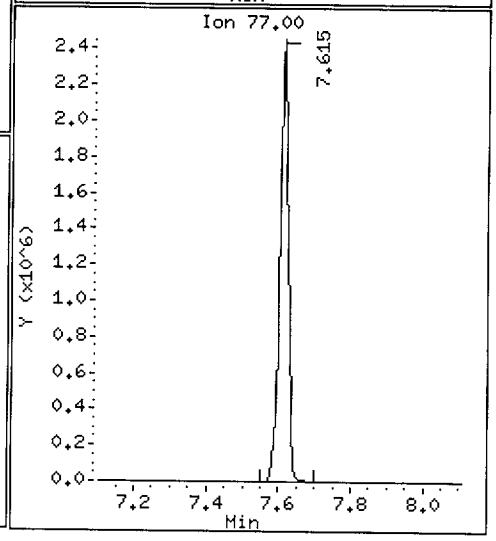


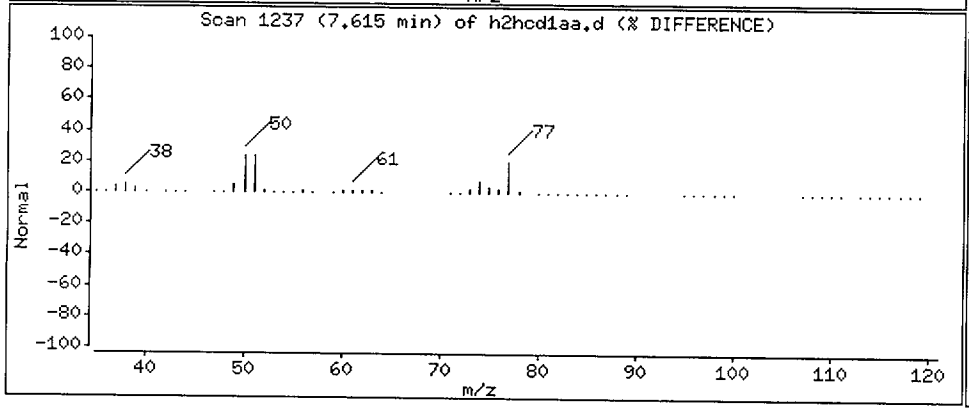












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

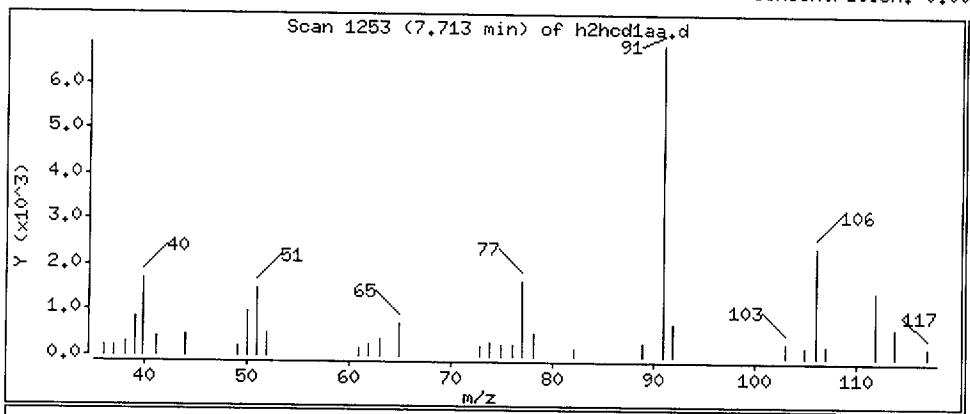
Operator: 22980

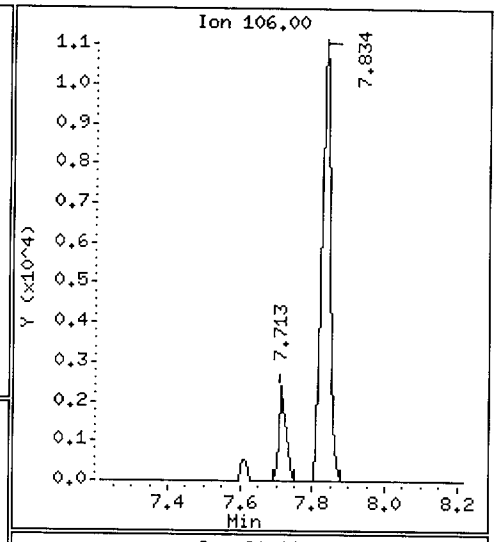
Column phase: J+W 624

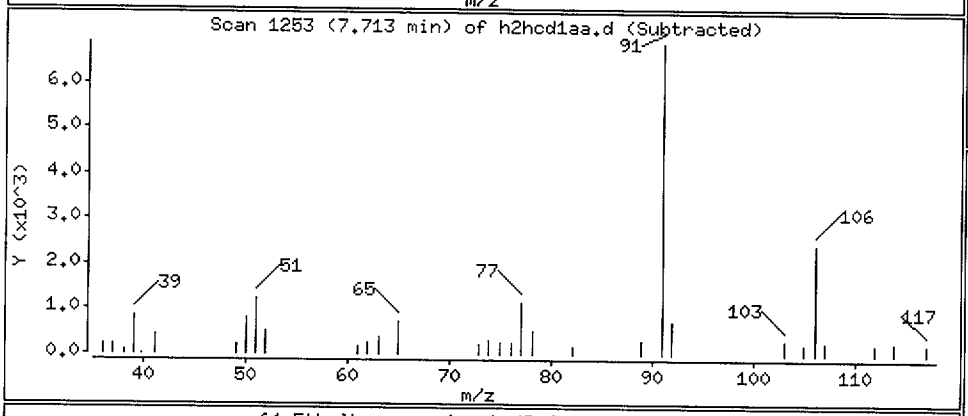
Column diameter: 0.18

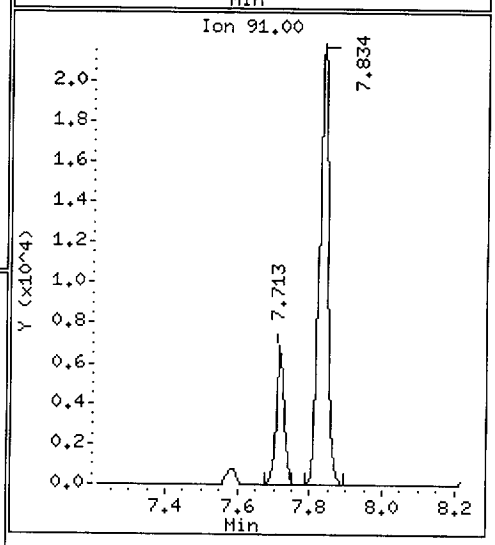
64 Ethylbenzene (ccc)

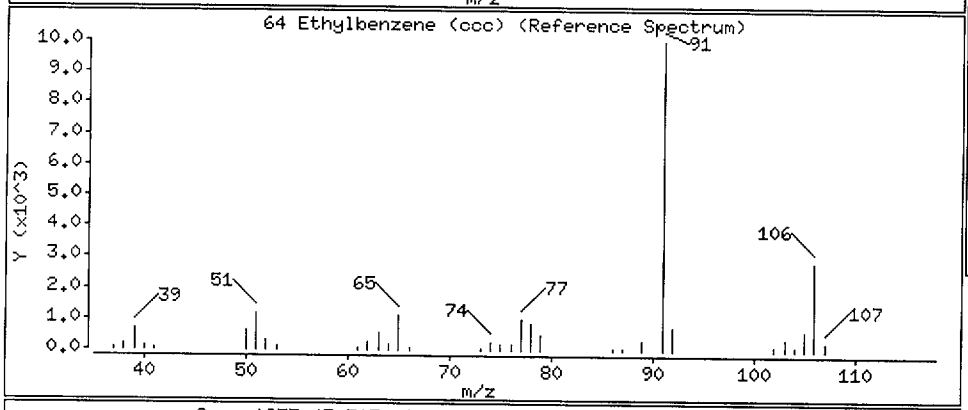
Concentration: 0.0018334 ug

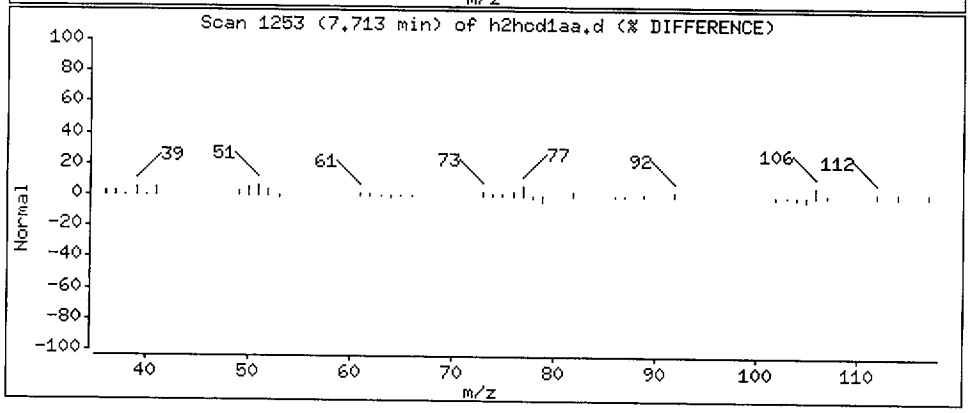












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

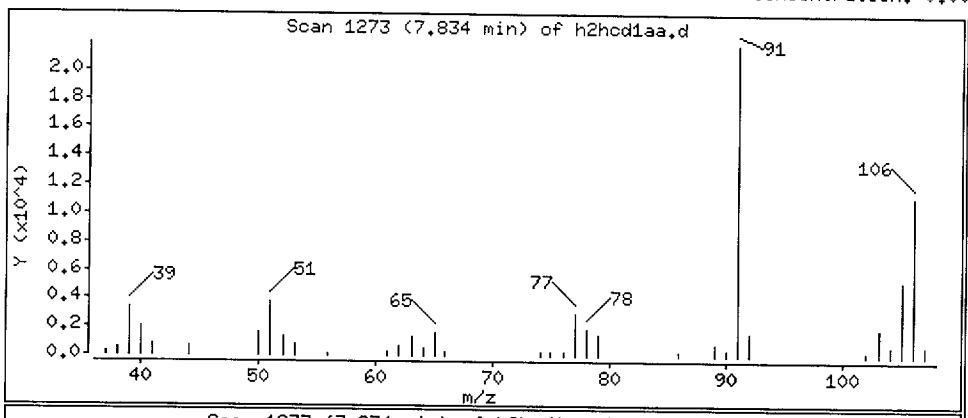
Operator: 22980

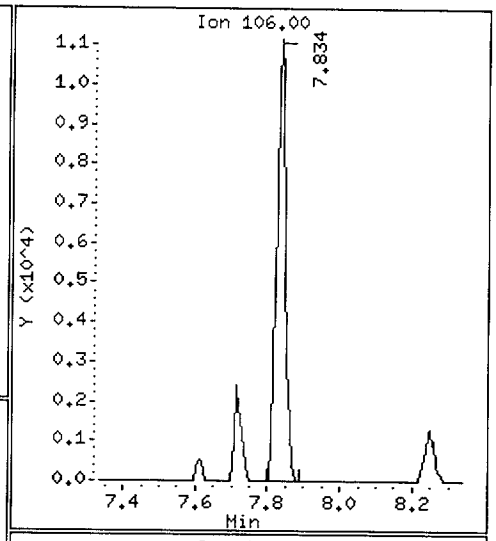
Column phase: J+W 624

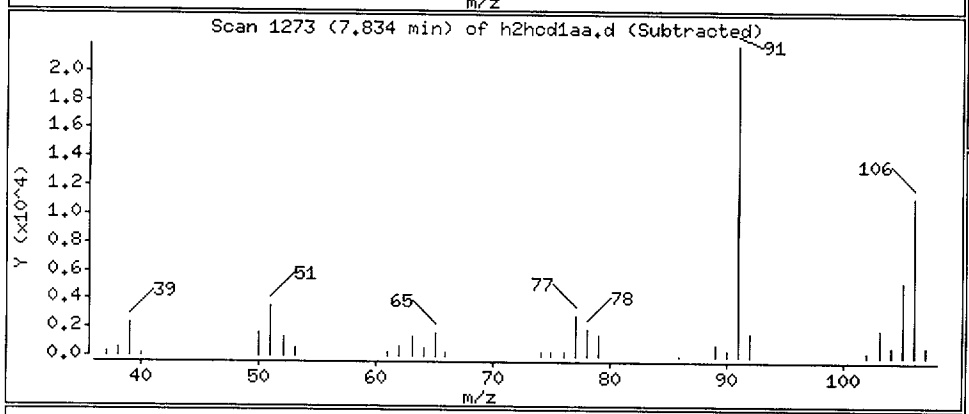
Column diameter: 0.18

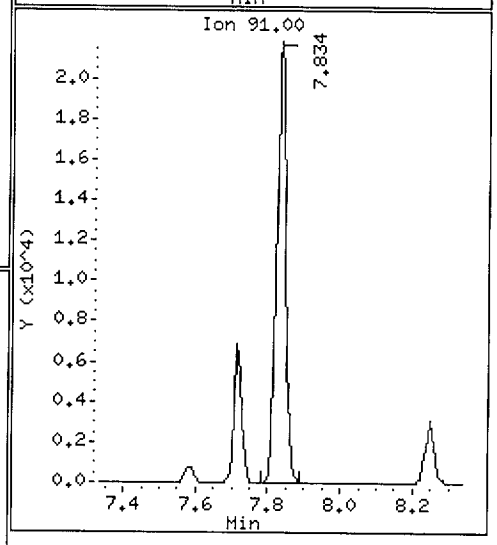
65 m&p-Xylene

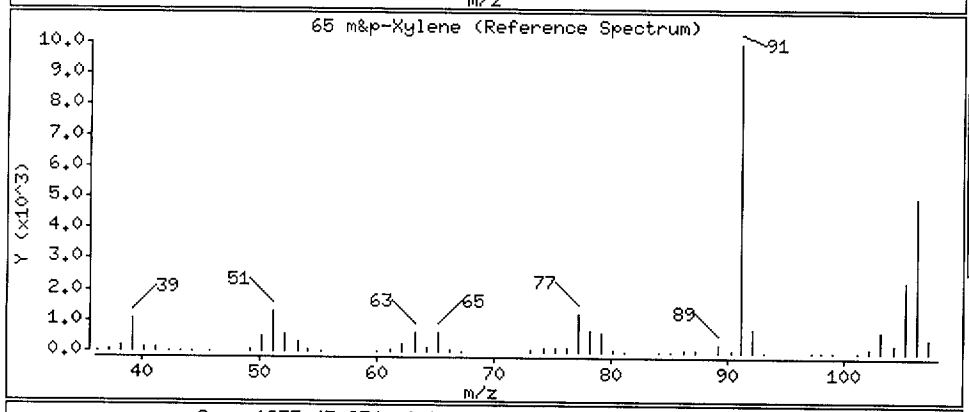
Concentration: 0.0091182 ug

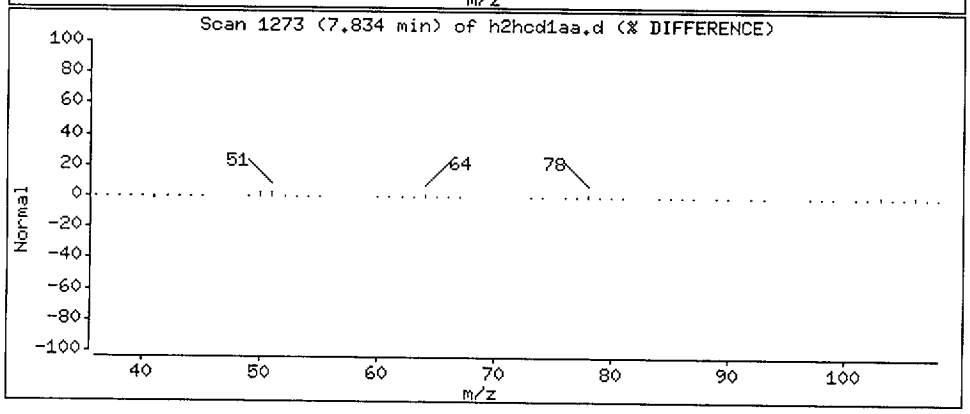












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

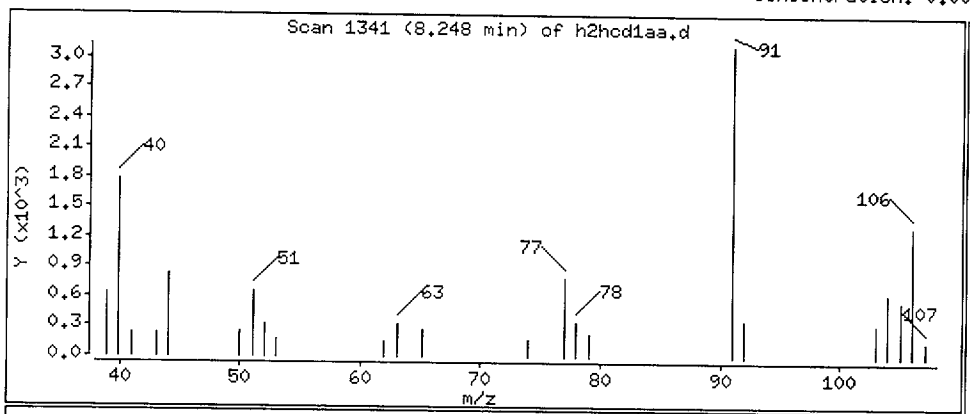
Operator: 22980

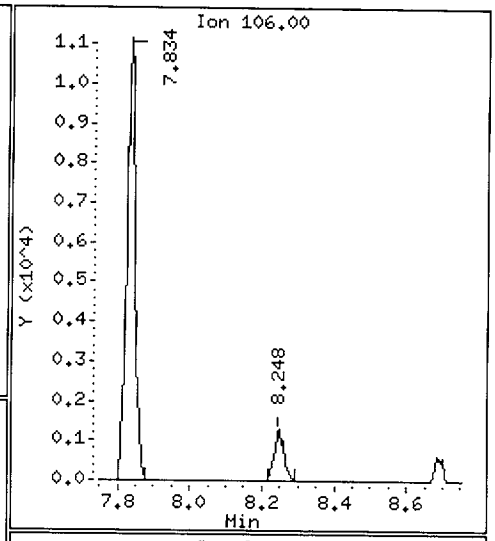
Column phase: J+W 624

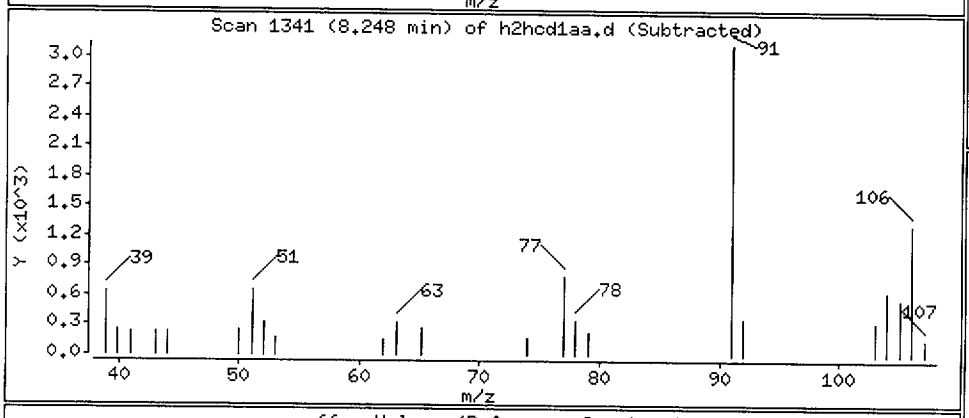
Column diameter: 0.18

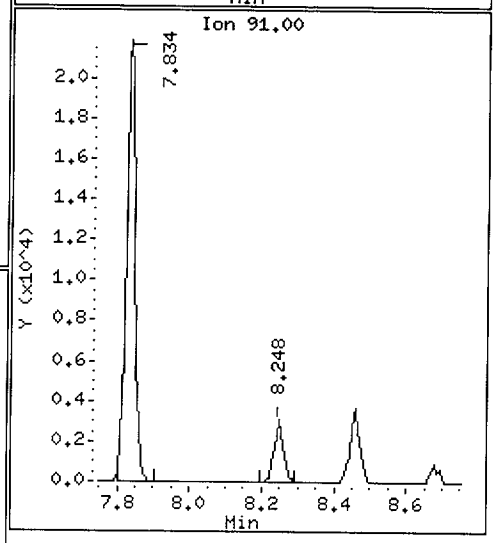
66 o-Xylene

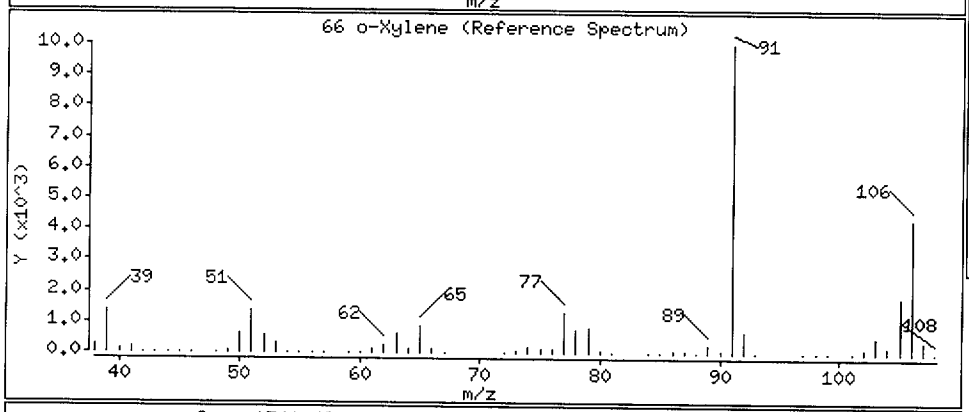
Concentration: 0.0013285 ug

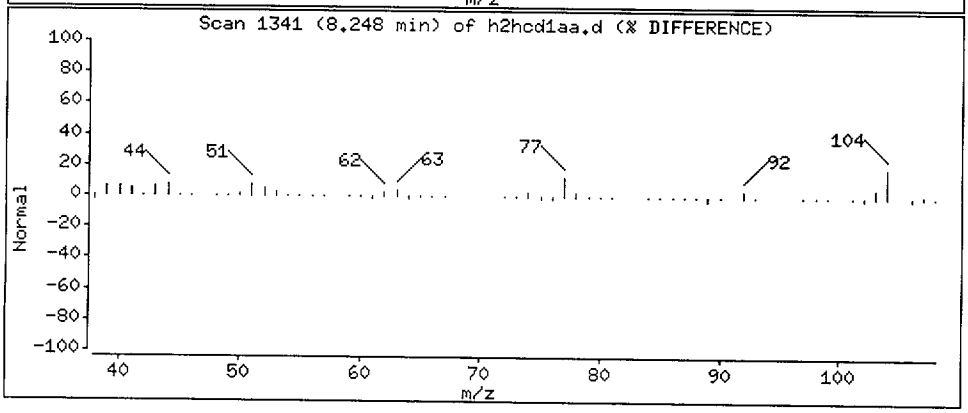












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

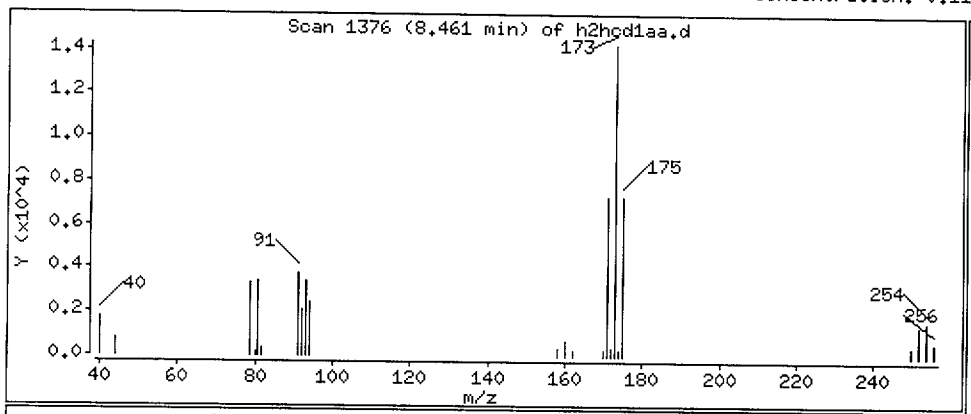
Operator: 22980

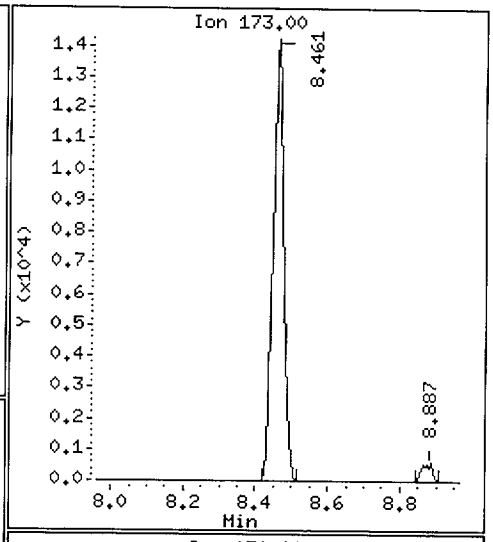
Column phase: J+W 624

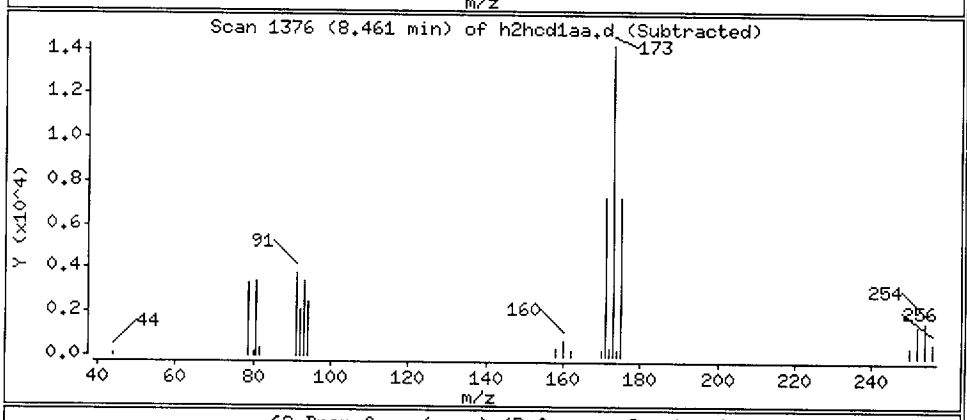
Column diameter: 0.18

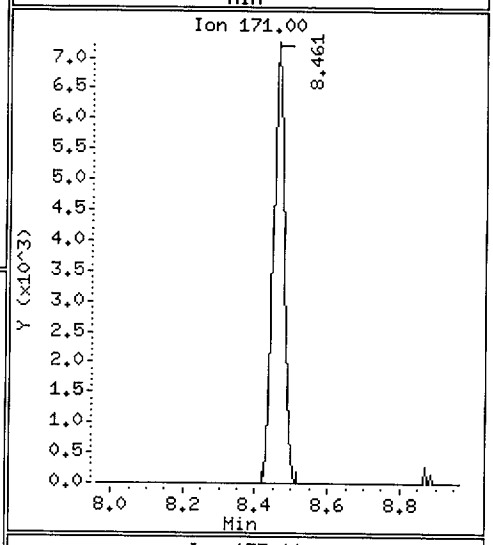
68 Bromoform (spcc)

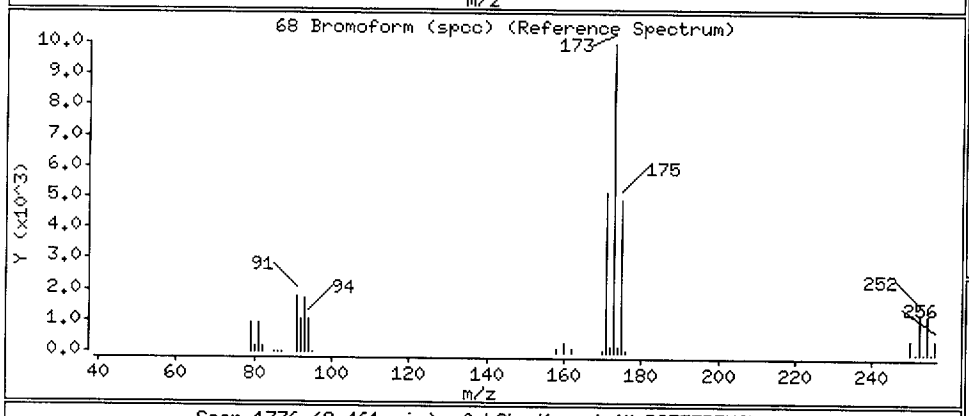
Concentration: 0.11946 ug

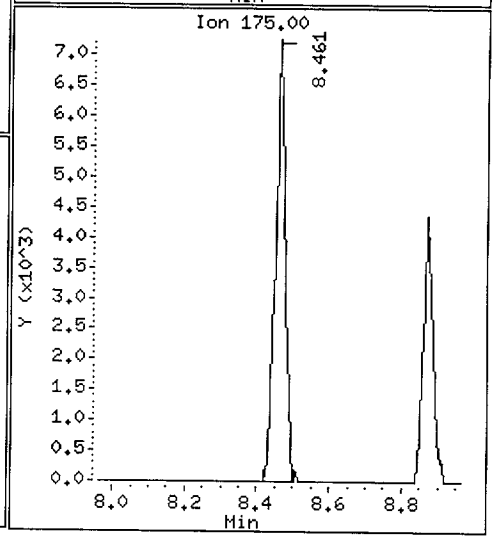


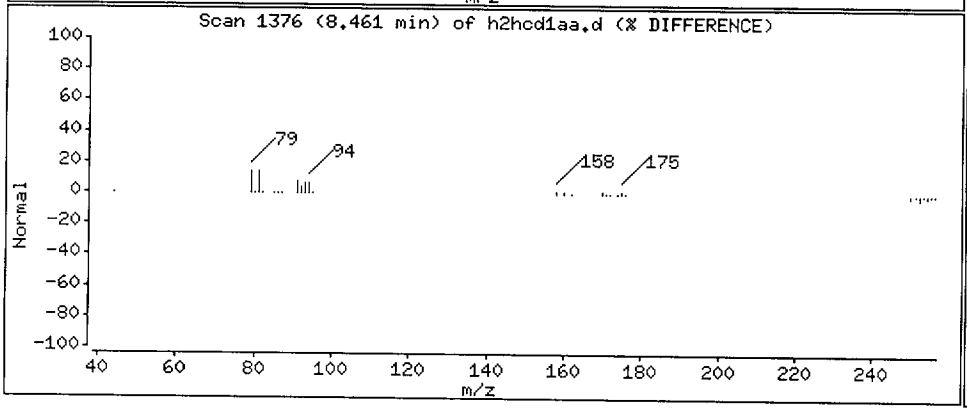












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Sample Info: H2HCD1AA,1,0,,,

Instrument: mx.i

Operator: 22980

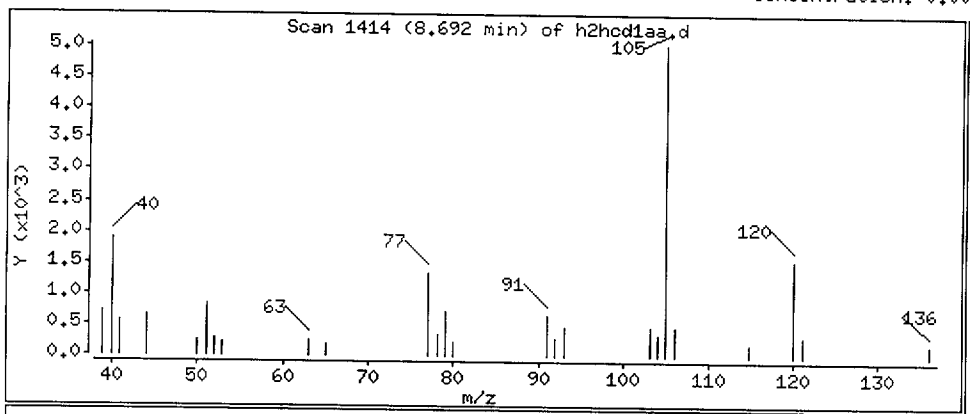
Column phase: J+W 624

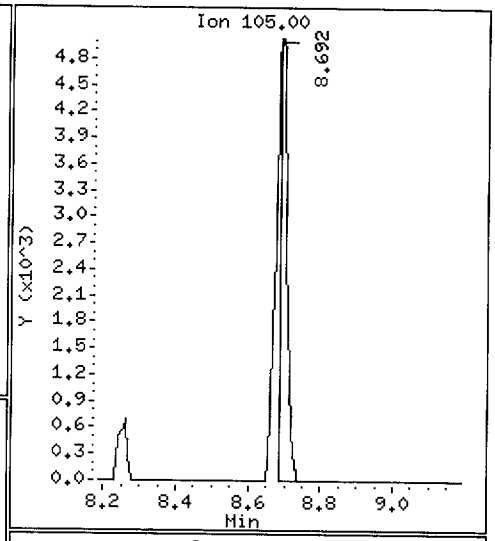
Column diameter: 0.18

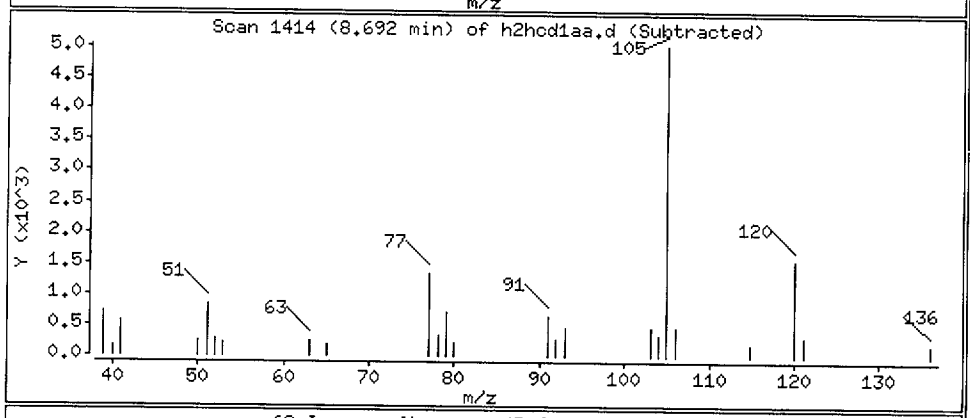
Concentration: 0.0012382 ug

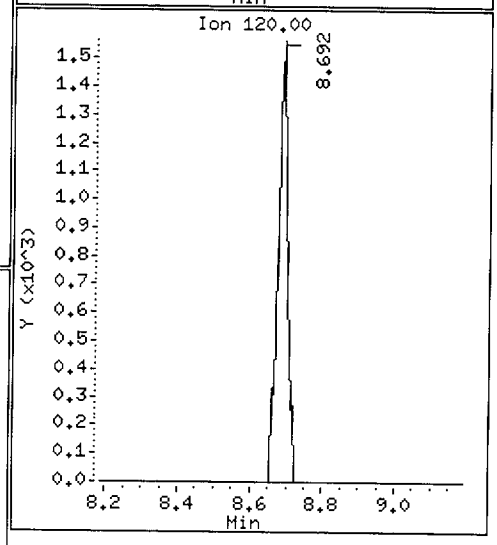
69 Isopropylbenzene

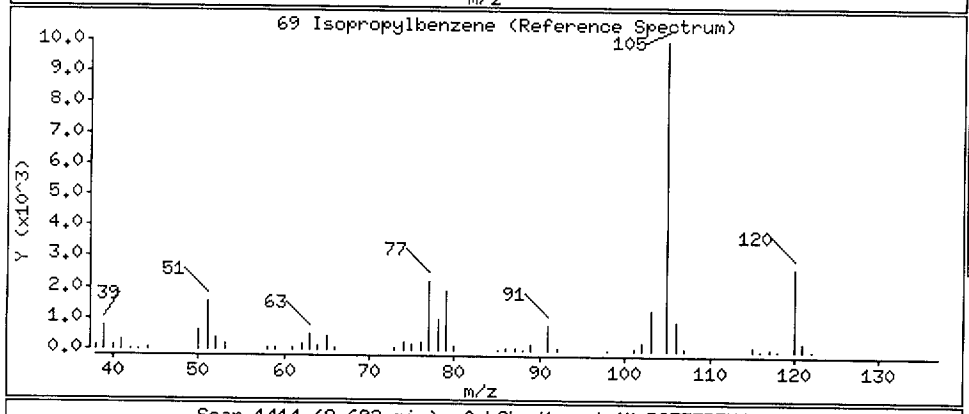
<MDL
Integrated
4/19/06 H

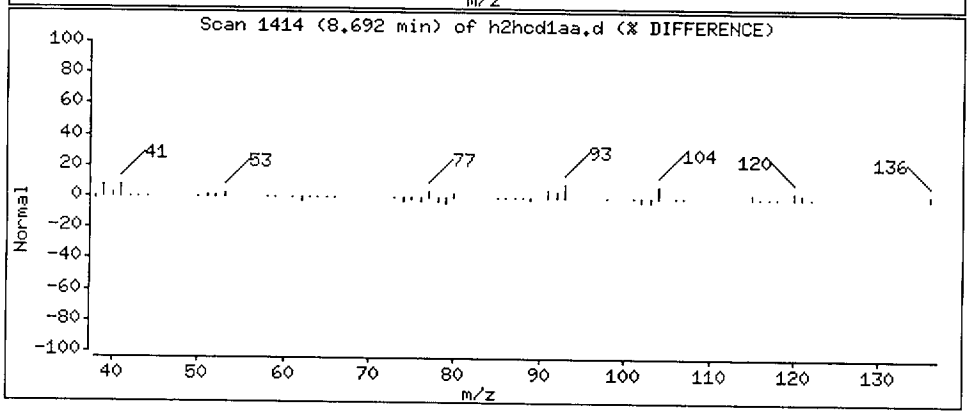












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

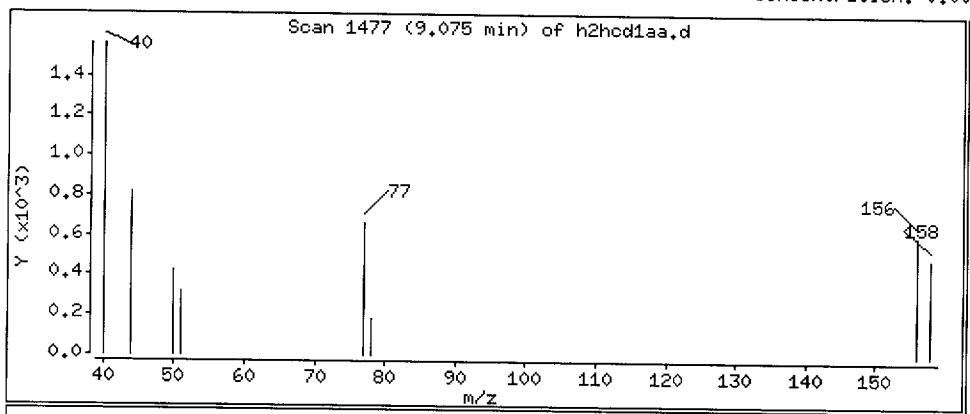
Operator: 22980

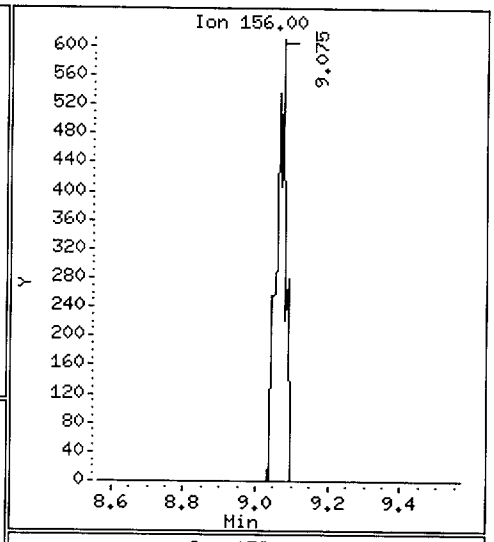
Column phase: J+W 624

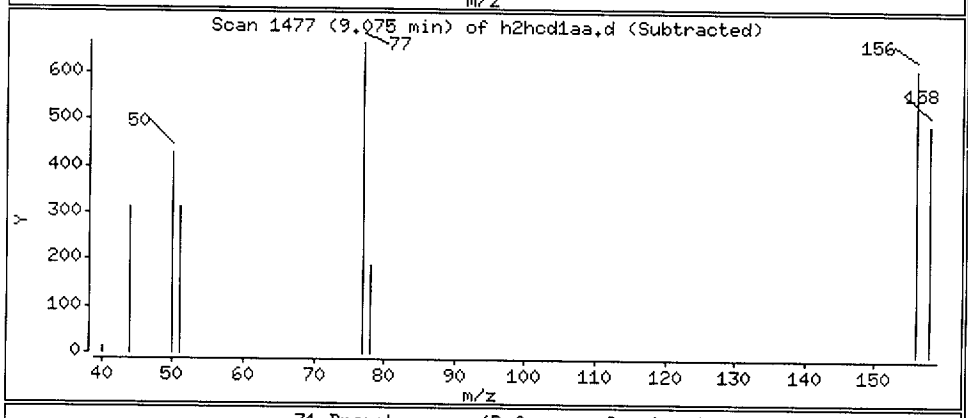
Column diameter: 0.18

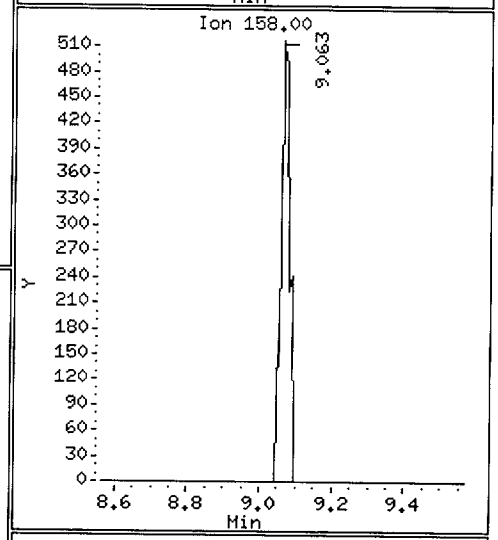
71 Bromobenzene

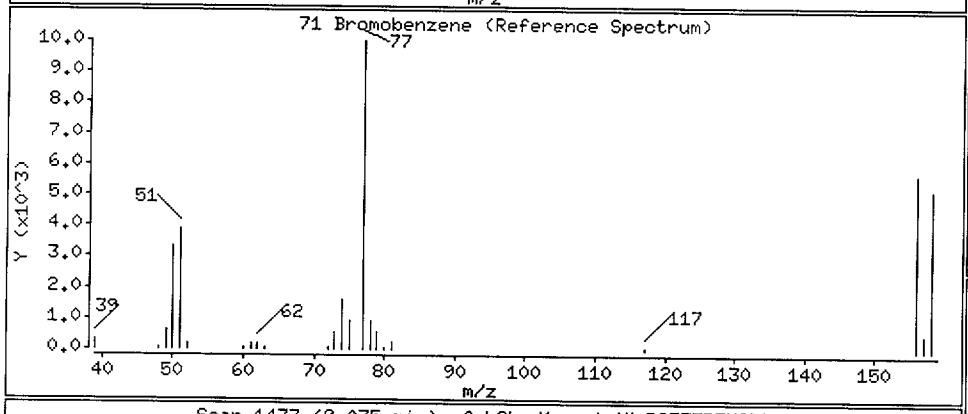
Concentration: 0.0012829 ug

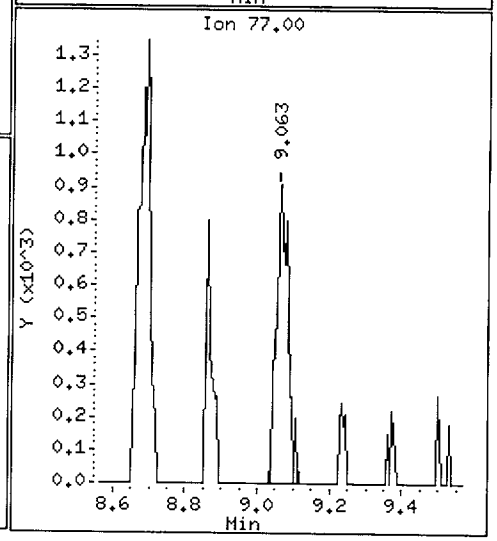


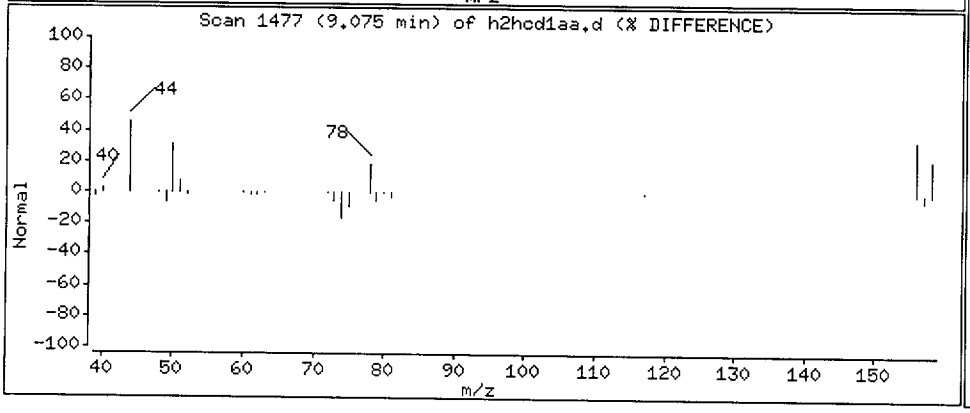












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

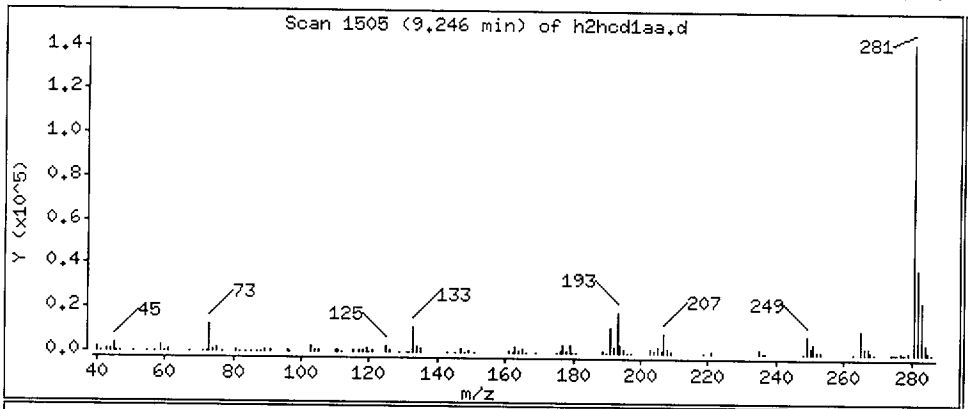
Operator: 22980

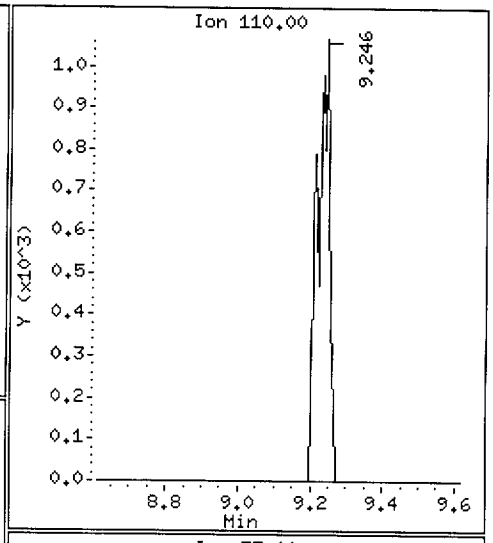
Column phase: J+W 624

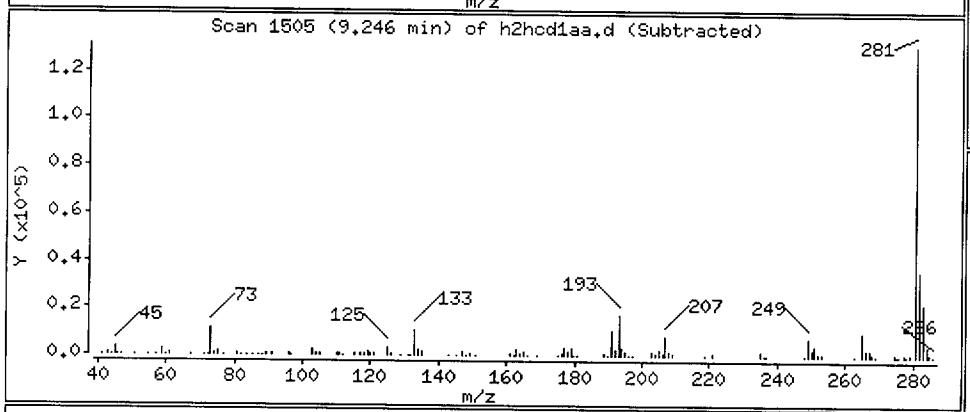
Column diameter: 0.18

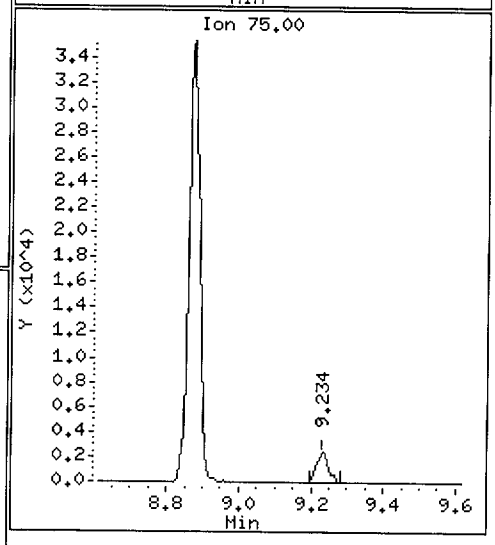
73 1,2,3-Trichloropropane

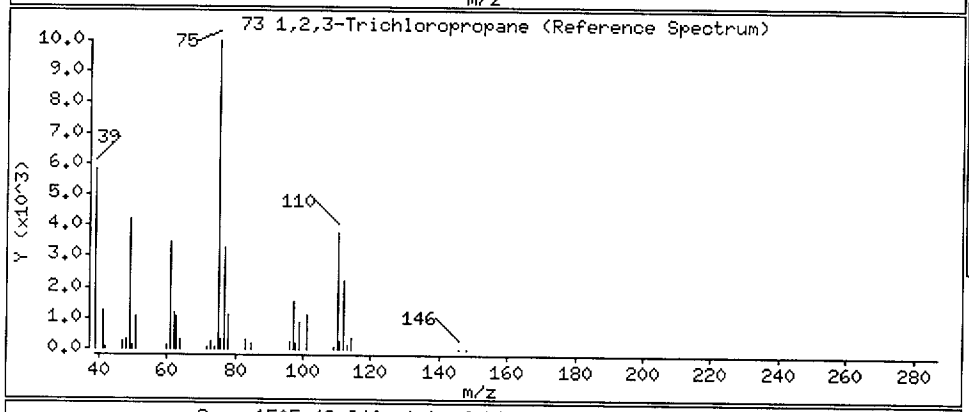
Concentration: 0.029366 ug

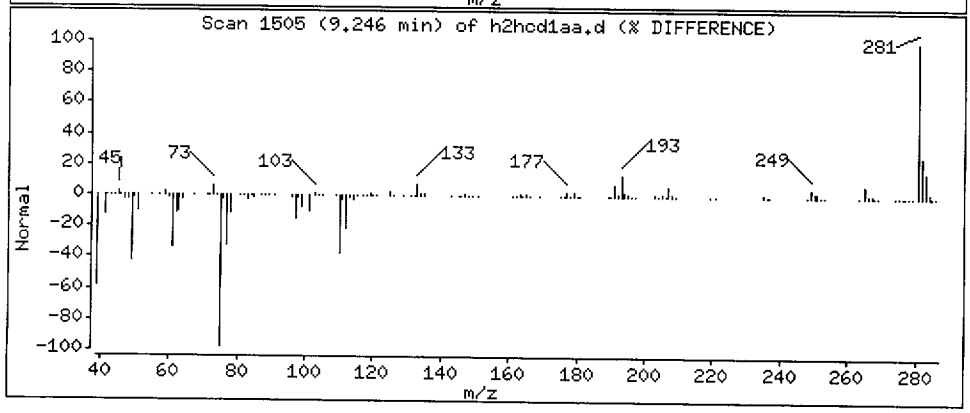












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

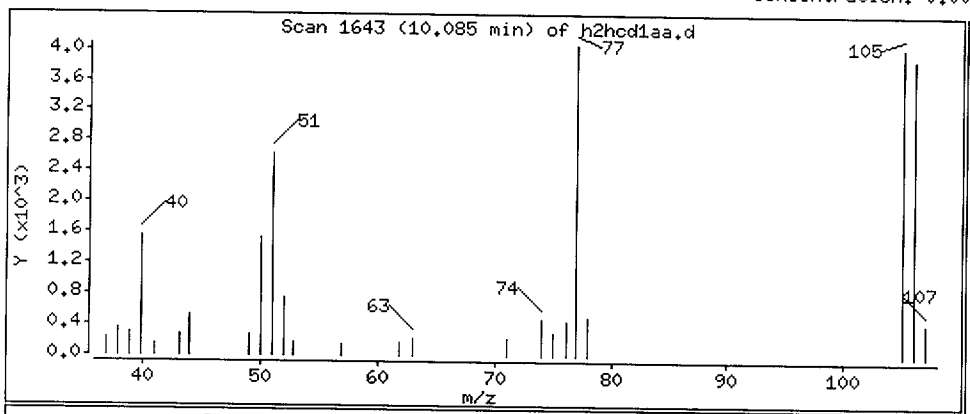
Operator: 22980

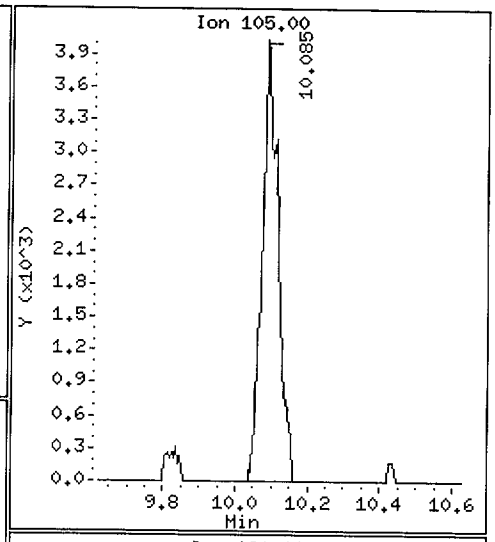
Column phase: J+W 624

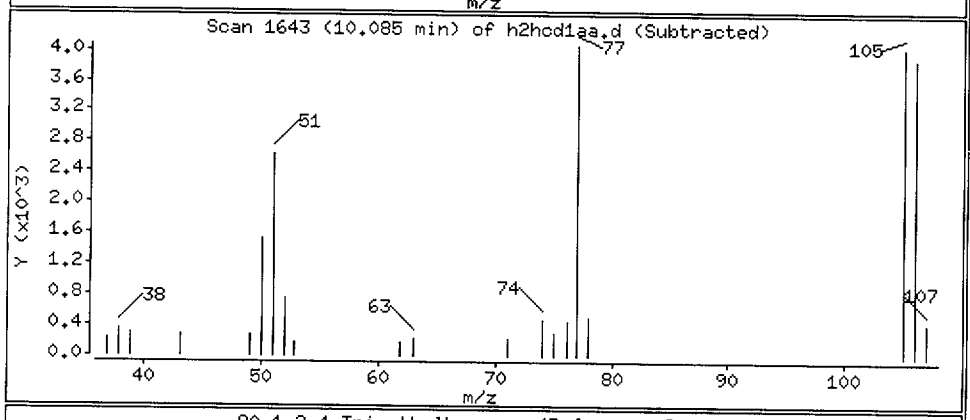
Column diameter: 0.18

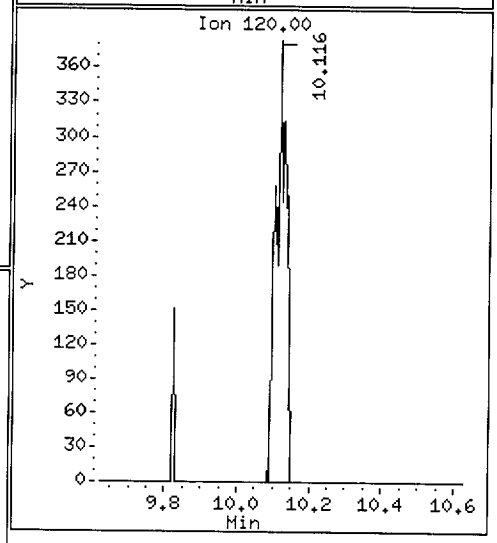
80 1,2,4-Trimethylbenzene

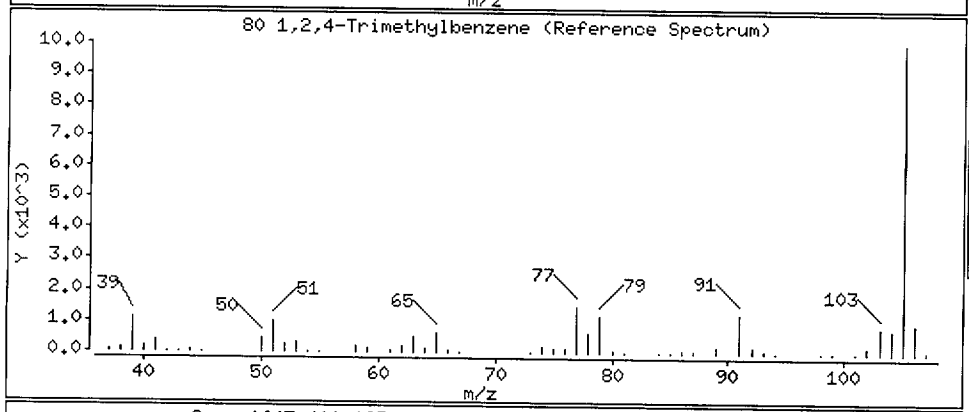
Concentration: 0.0040654 ug

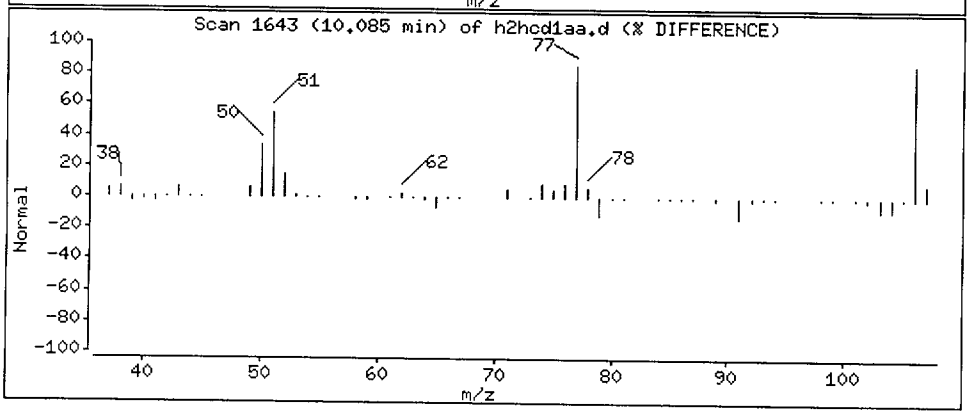












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

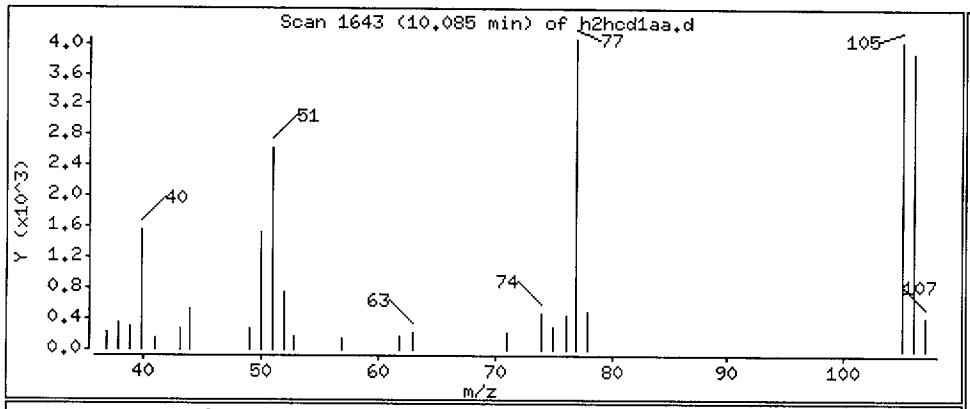
Operator: 22980

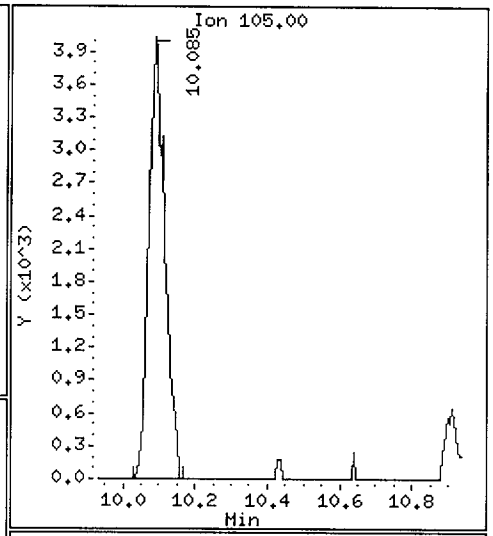
Column phase: J+W 624

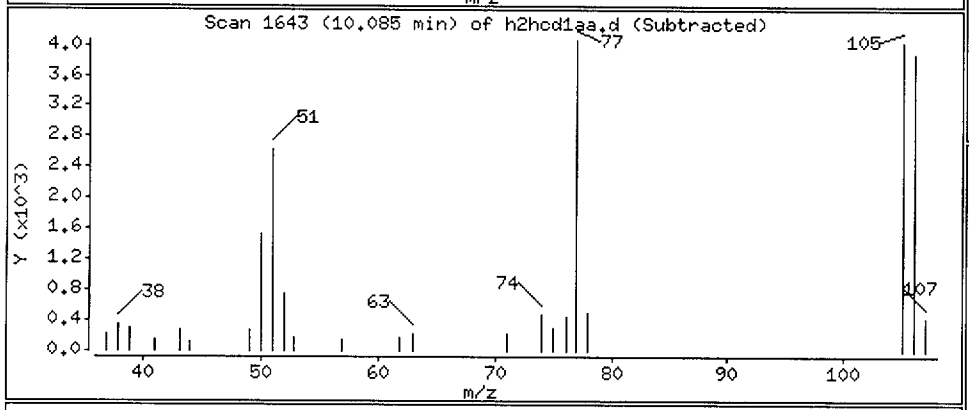
Column diameter: 0.18

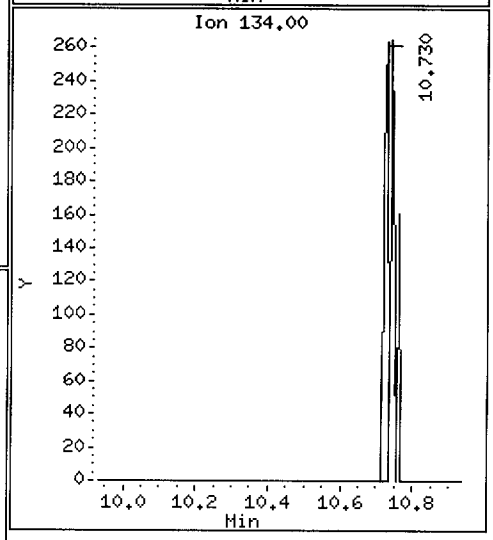
81 sec-Butylbenzene

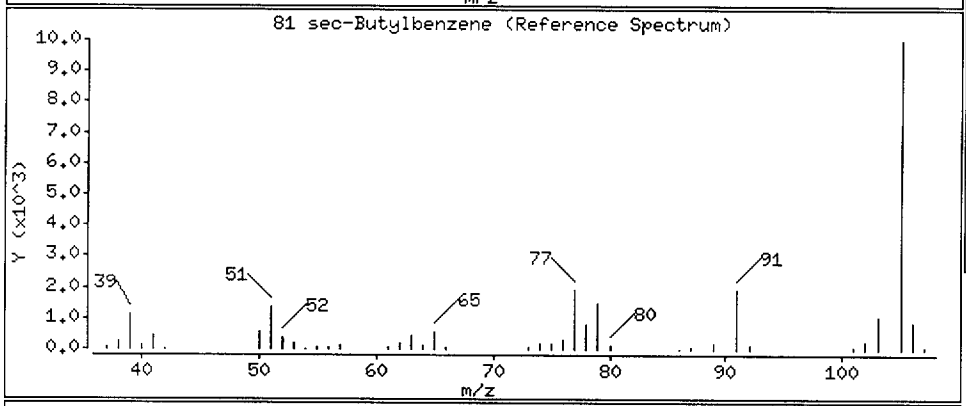
Concentration: 0.0023015 ug

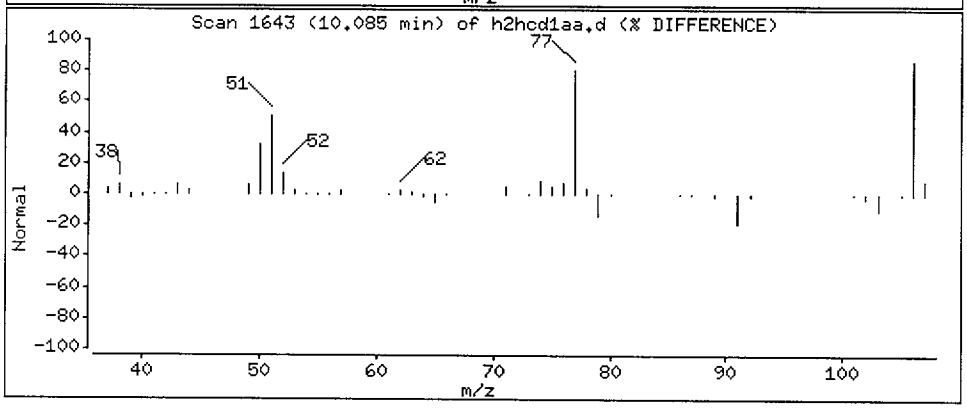












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

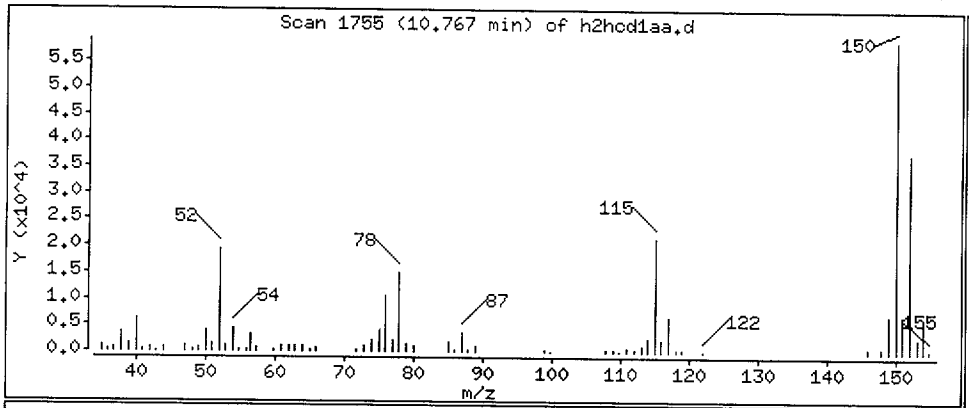
Operator: 22980

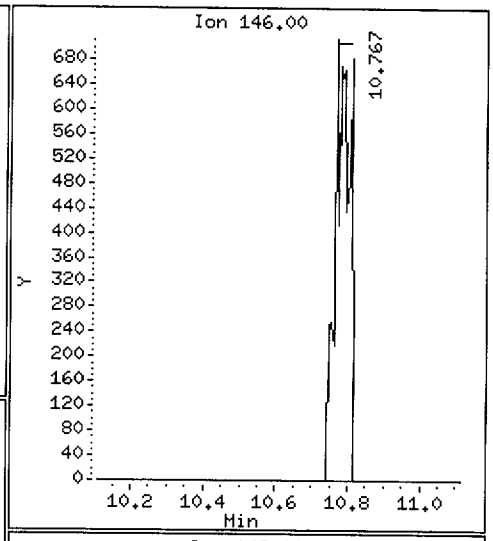
Column phase: J+W 624

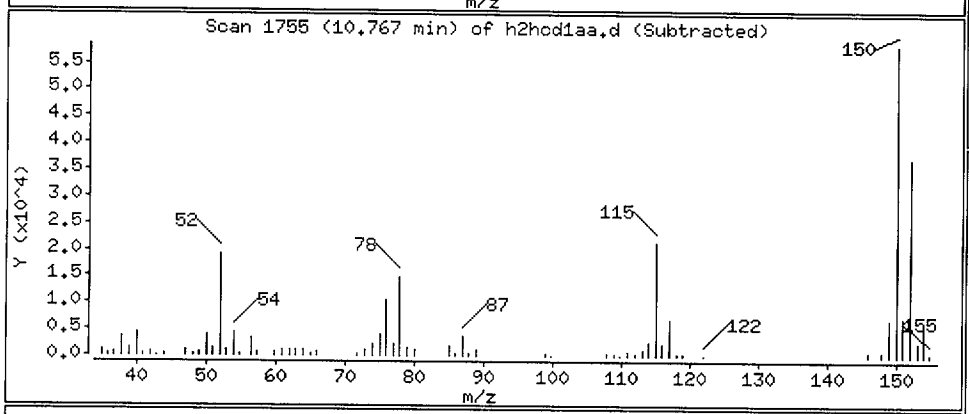
Column diameter: 0.18

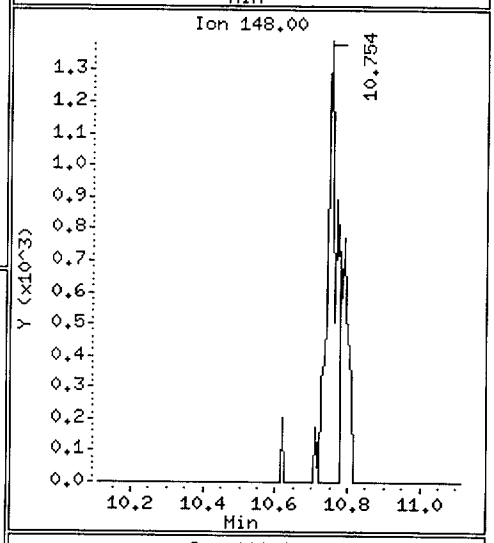
82 1,3-Dichlorobenzene

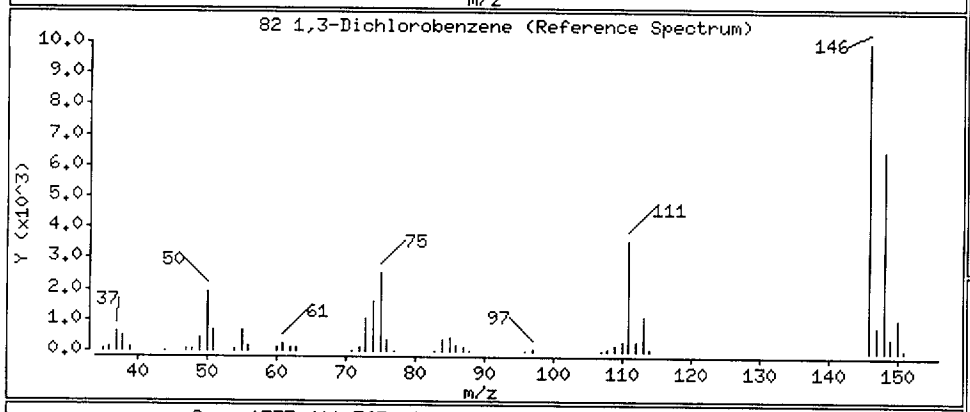
Concentration: 0.0012521 ug

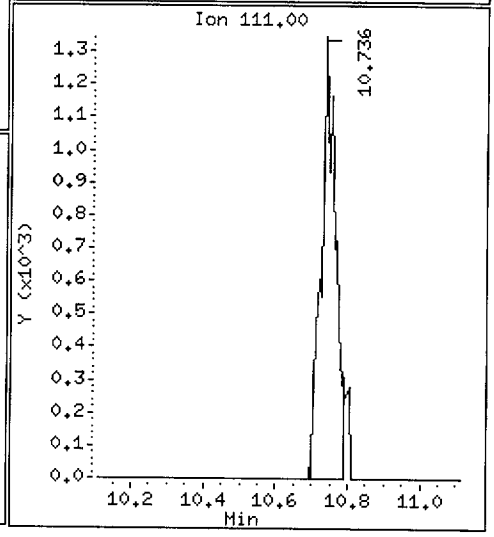


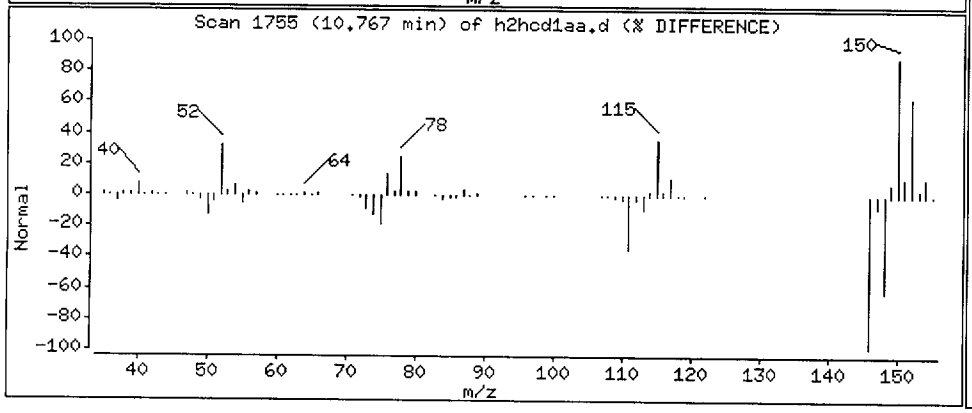












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

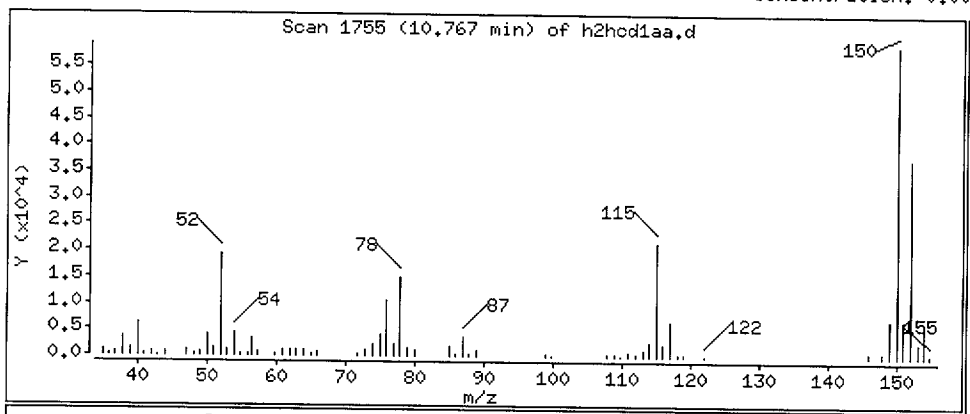
Operator: 22980

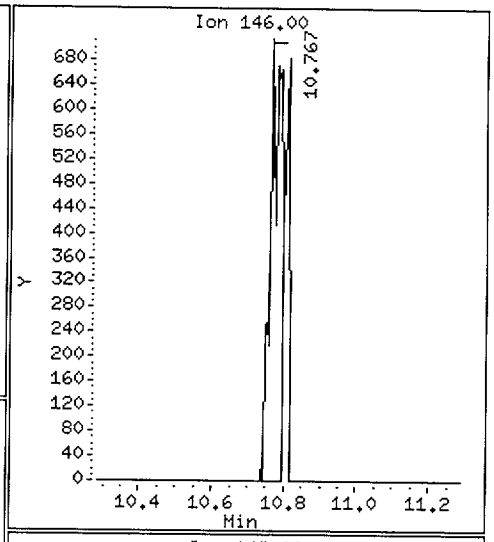
Column phase: J+W 624

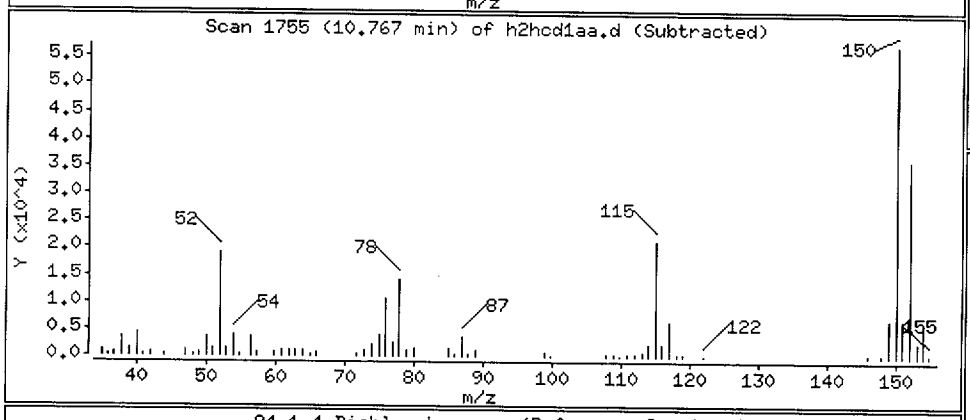
Column diameter: 0.18

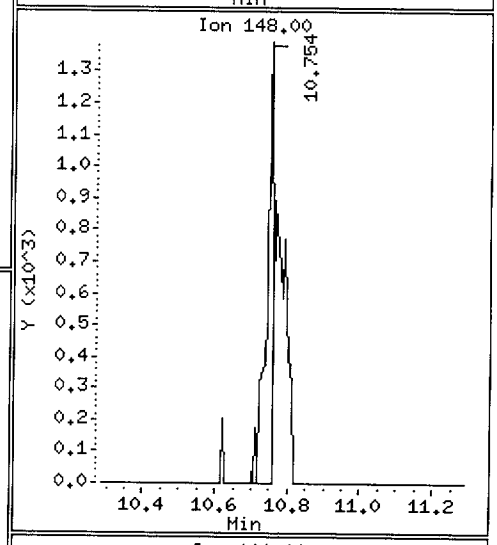
84 1,4-Dichlorobenzene

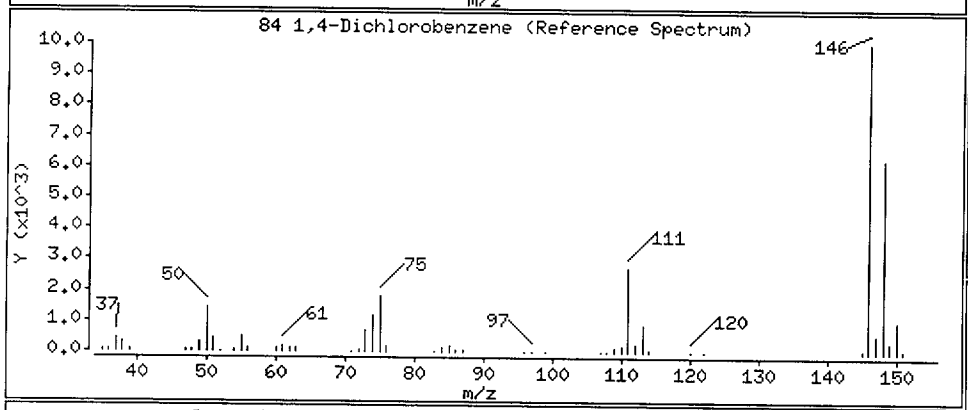
Concentration: 0.0010863 ug

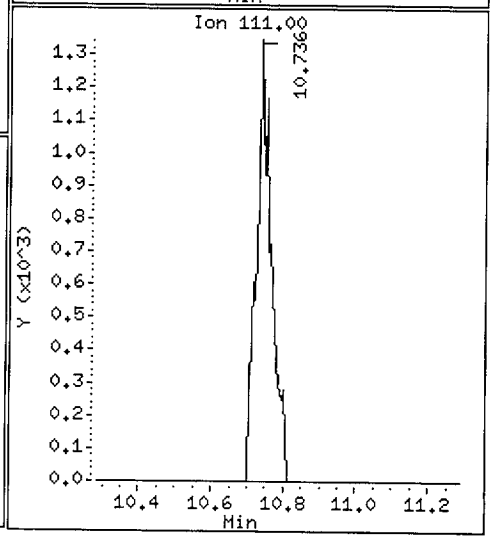


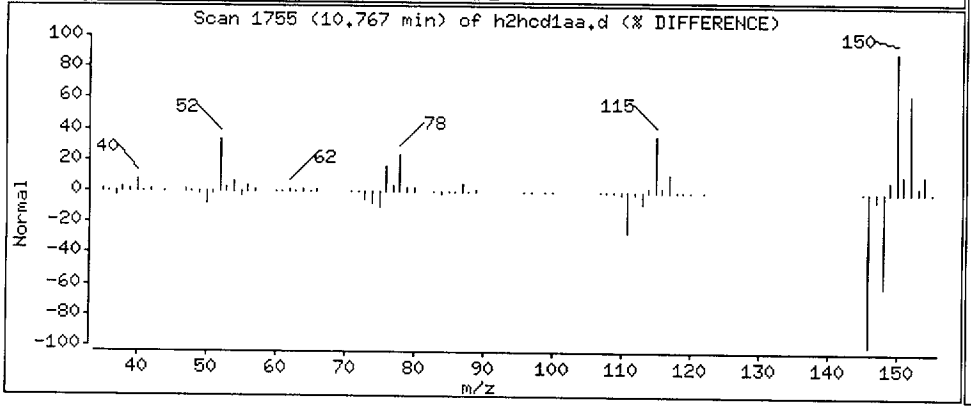












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Report Date: 19-Apr-2006 07:33

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d
Lab Smp Id: H2HCD1AA
Client Smp ID: G-3089-R3-VOST PAIR
Inj Date : 07-APR-2006 17:03
Operator : 22980
Inst ID: mx.i
Smp Info : H2HCD1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:31 tajh
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.742	574922	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.240	435202	7.56975729	0.18924	90	NIST02.1	115617	3
Benzoic acid, 2-[(trimethylsilyl)oxy]-,				CAS #: 3789-85-3			
12.440	98650	1.71588494	0.042897	64	NIST02.1	107106	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

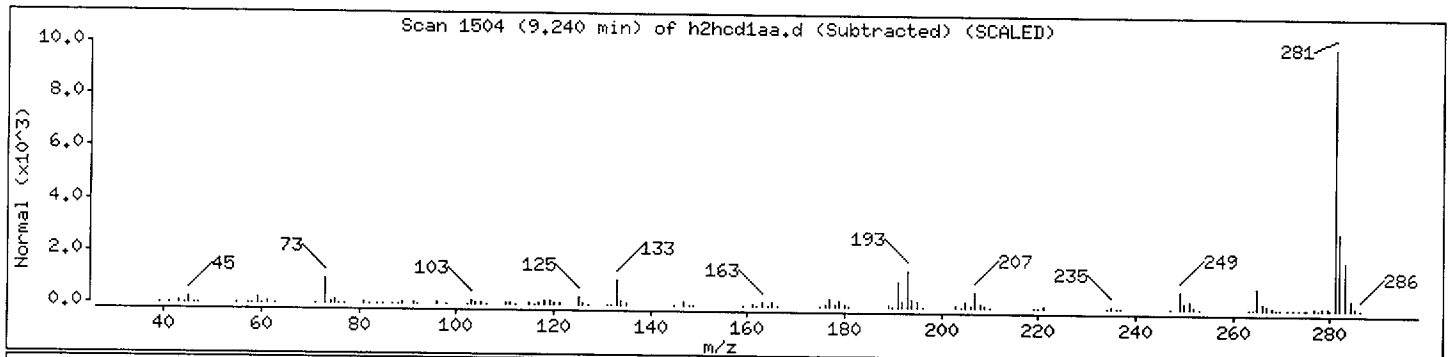
Sample Info: H2HCD1AA,1,0,,,

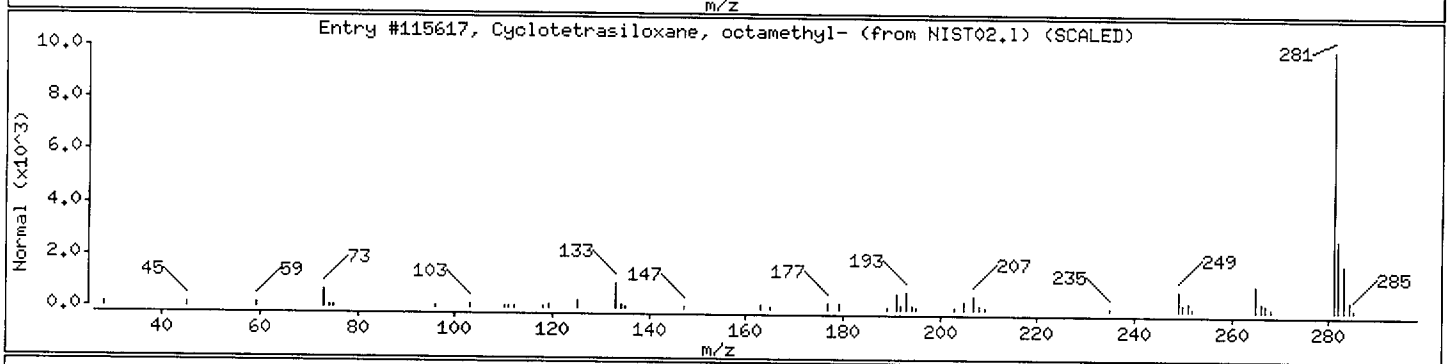
Operator: 22980

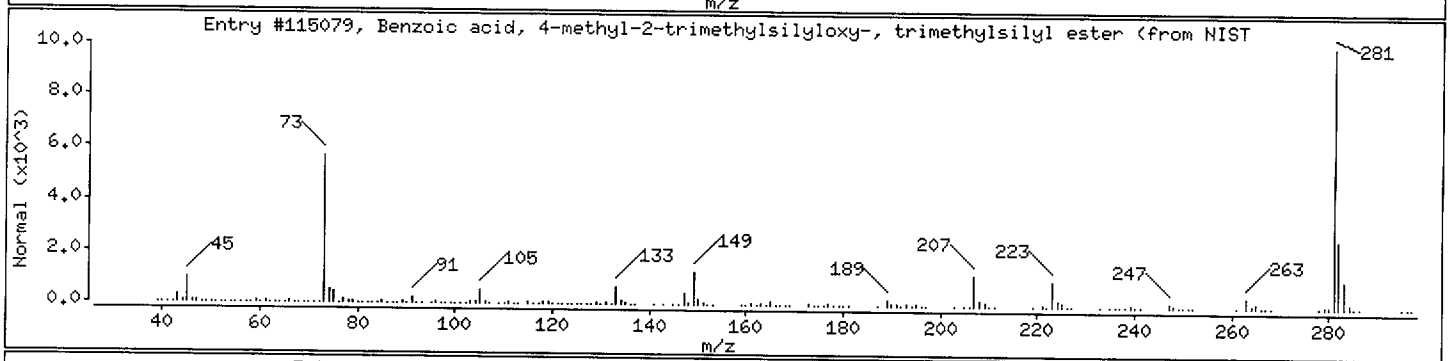
Column phase: J+W 624

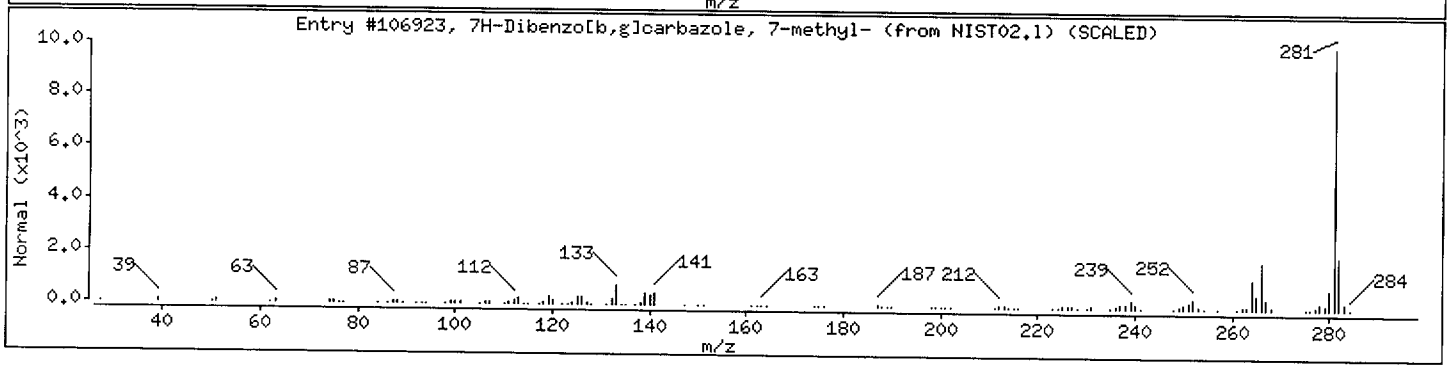
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115617	90	C8H24O4Si4	296
Benzoic acid, 4-methyl-2-trimethylsilylo	1000153-59-3	NIST02.1	115079	59	C14H24O3Si2	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	53	C21H15N	281









Data File: /var/chem/gcms/mx.i/X040706.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

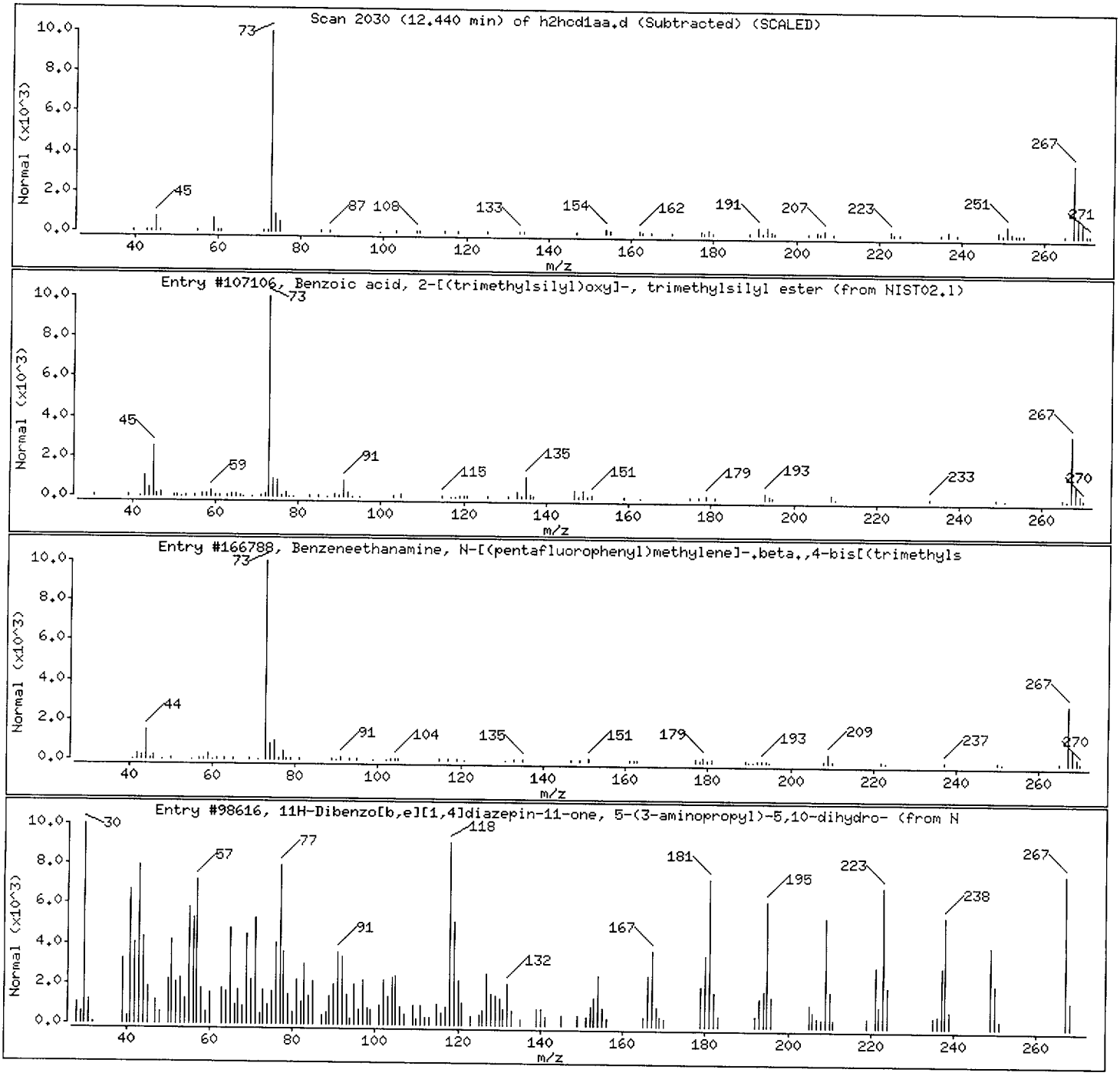
Sample Info: H2HCD1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.l	107106	64	C13H22O3Si2	282
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.l	166788	42	C21H26F5NO2Si2	475
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.l	98616	16	C16H17N3O	267



STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...:	H6D030169-023	**Work Order #...:**	H2HCD2AA	**Matrix.....:**	AIR
Date Sampled...:	03/30/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/07/06	**Analysis Date..:**	04/07/06		
Prep Batch #...:	6097054				
Dilution Factor:	1	**Method.....:**	SW846 VOST		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**2.1**	**0.010**	**ug**	**0.0013**

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Lab Smp Id: H2HCD1AA Client Smp ID: G-3089-R3-VOST PAIR
Inj Date : 07-APR-2006 17:03
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCD1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

05/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1083386	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	218210	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	235614	10.0000	
57 Tetrachloroethene	164	6.818	6.816	(0.899)	248168	8.06253	0.20156
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	6090129	84.3659	2.1091 (A)

TMO 5.10.06

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Report Date: 10-May-2006 12:35

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcd1aa.d
Lab Smp Id: H2HCD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3089-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1083386	-5.73
2 Chlorobenzene-d5	214194	107097	428388	218210	1.87
3 1,4 Dichlorobenze	242601	121300	485202	235614	-2.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

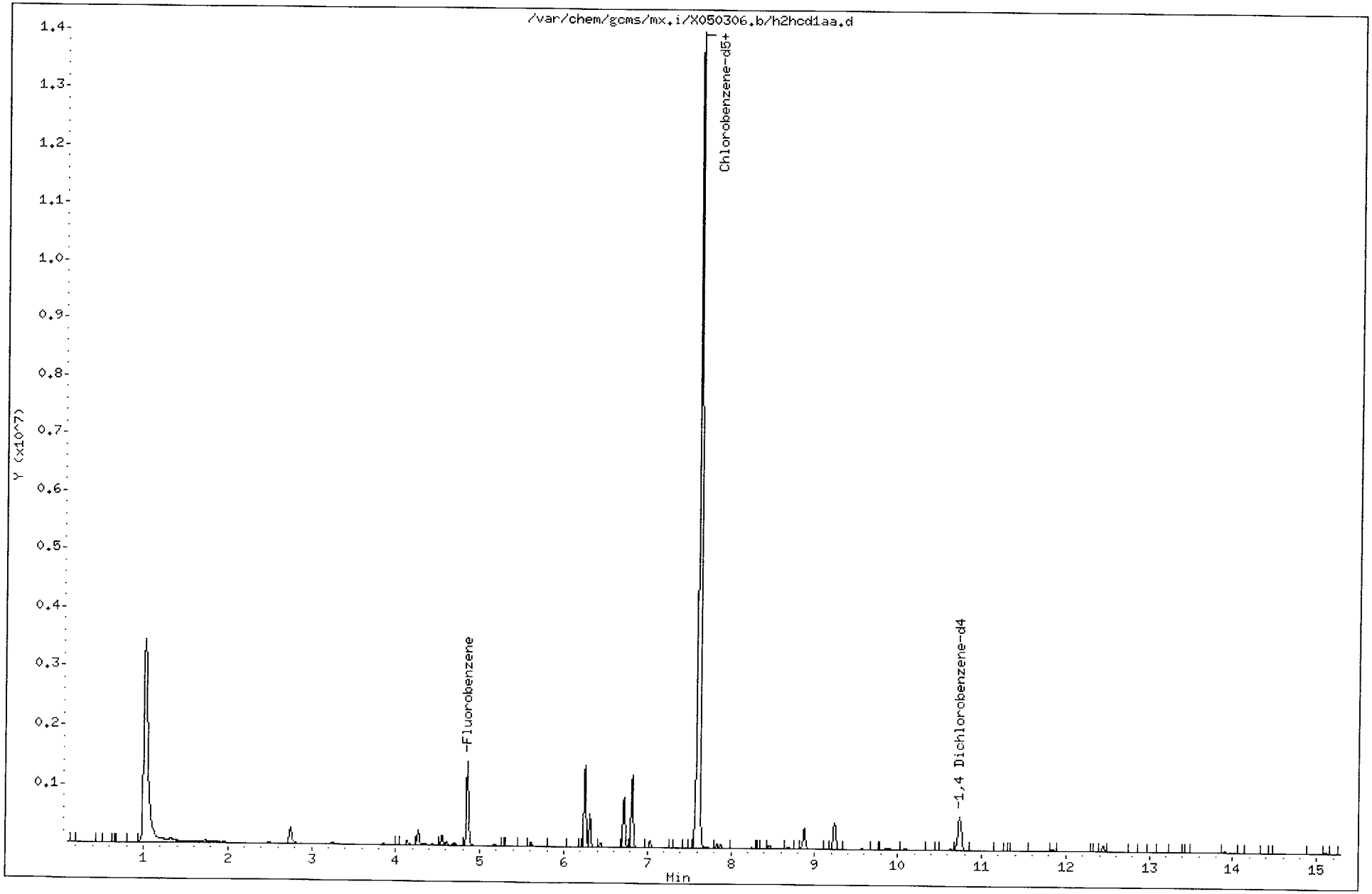
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d
Date : 07-APR-2006 17:03
Client ID: G-3089-R3-VOST PAIR
Sample Info: H2HCD1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

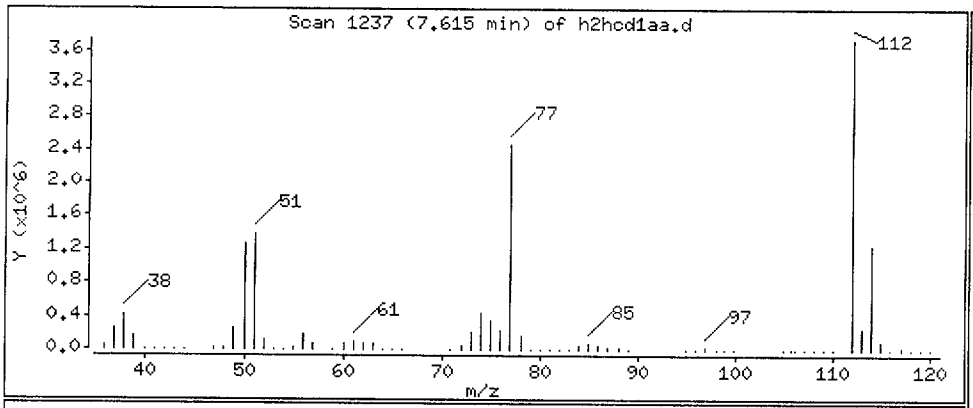
Operator: 22980

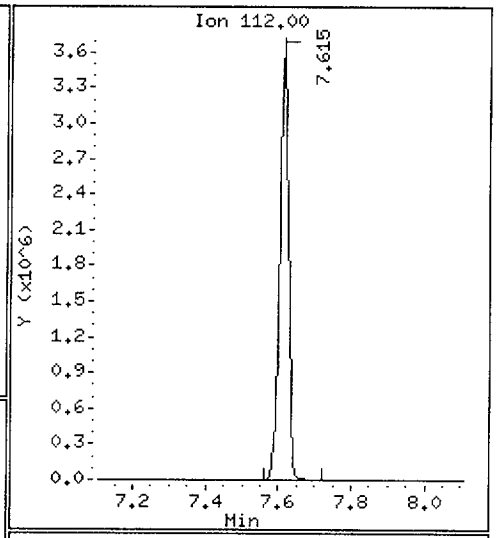
Column phase: J+W 624

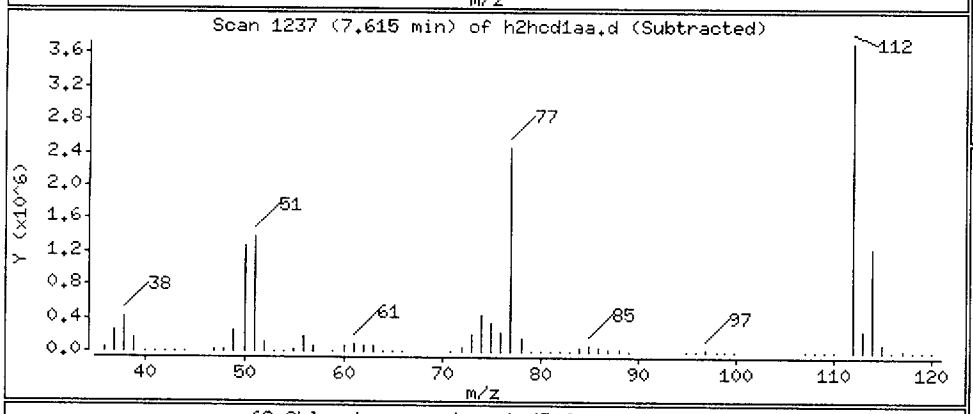
Column diameter: 0.18

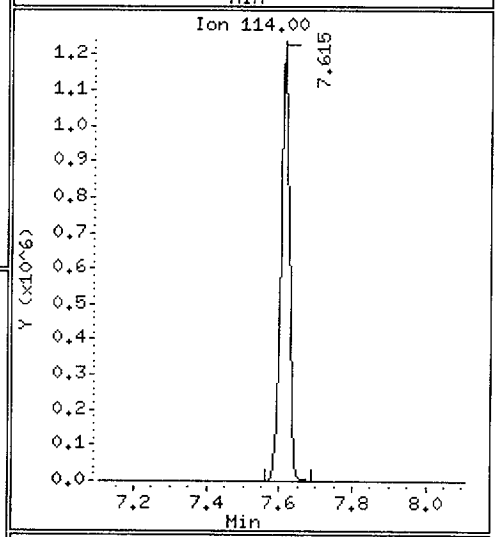
62 Chlorobenzene (spcc)

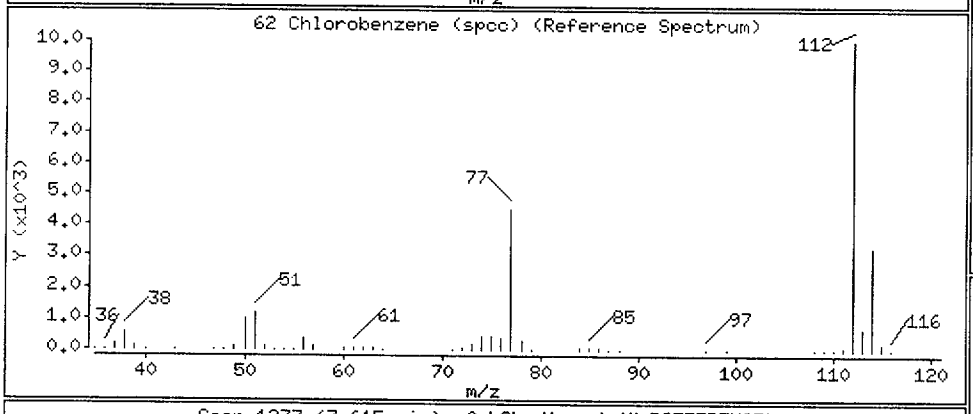
Concentration: 2.1091 ug

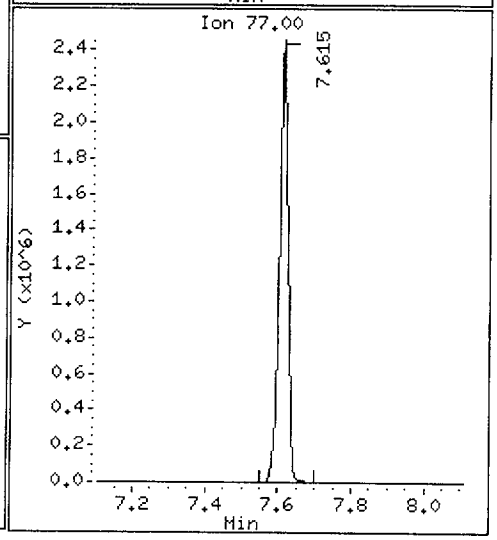


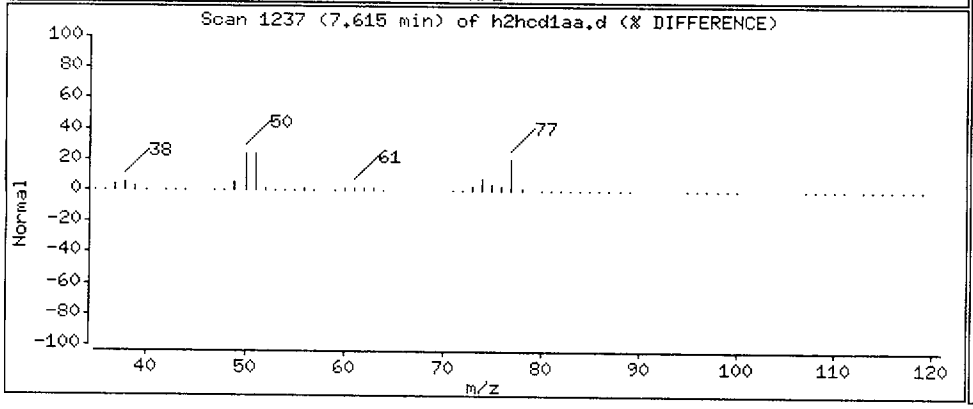












Data File: /var/chem/gcms/mx.i/X050306.b/h2hcd1aa.d

Date : 07-APR-2006 17:03

Client ID: G-3089-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCD1AA,1,0,,,

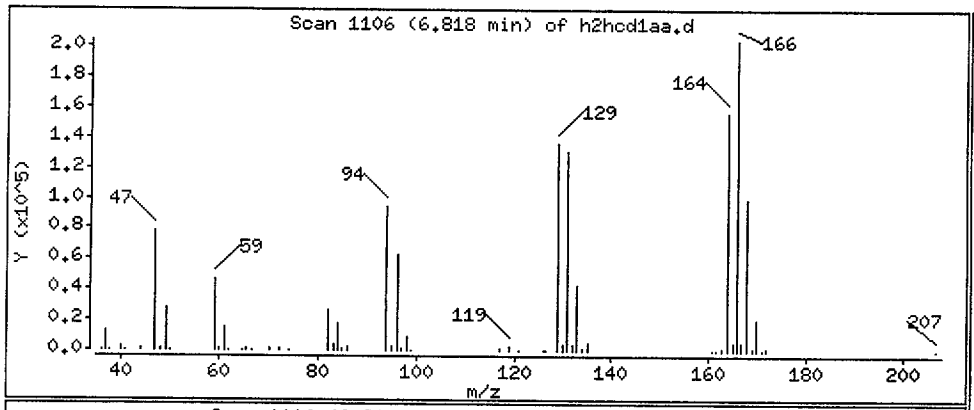
Operator: 22980

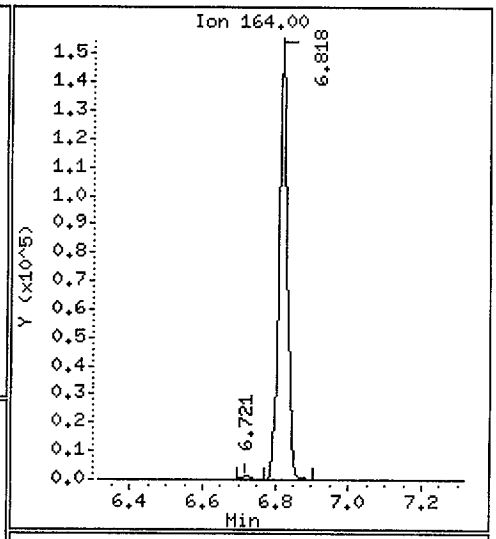
Column phase: J+W 624

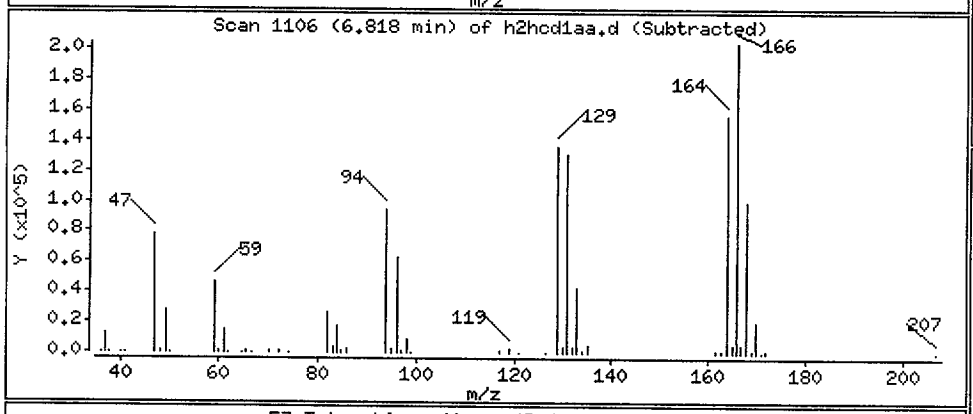
Column diameter: 0.18

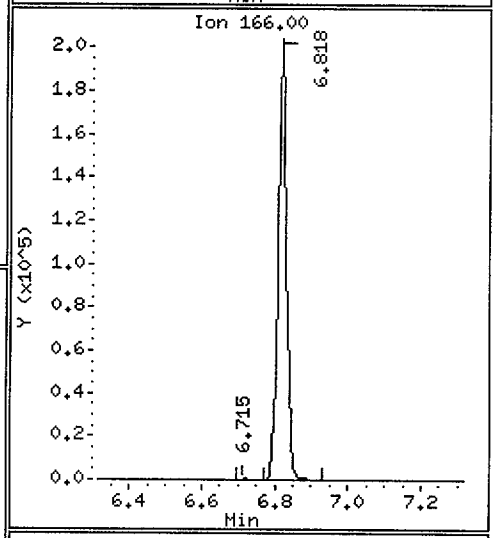
57 Tetrachloroethene

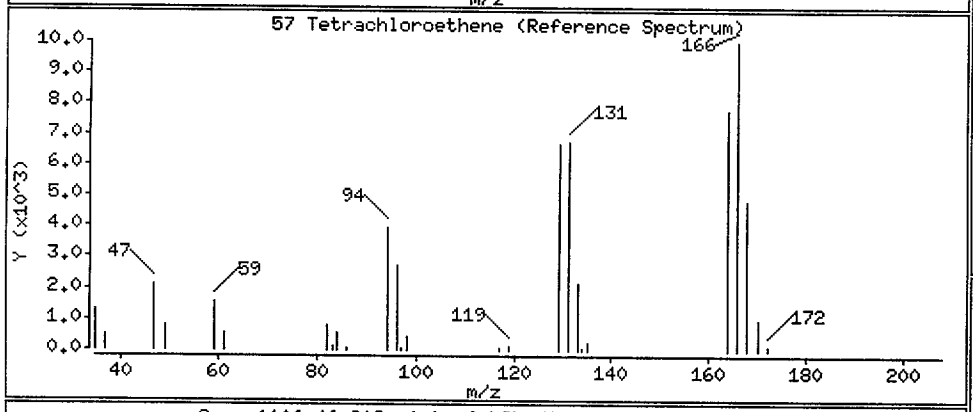
Concentration: 0.20156 ug

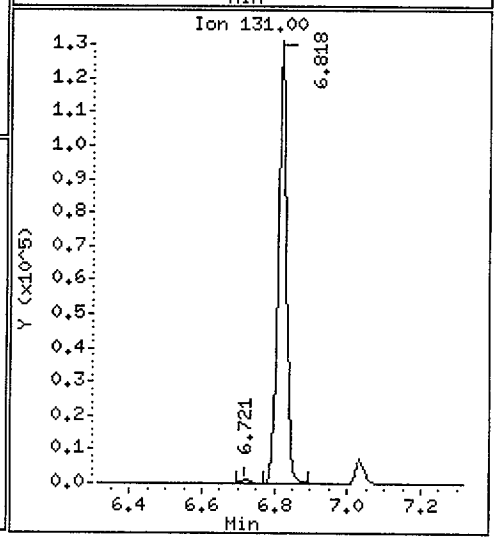


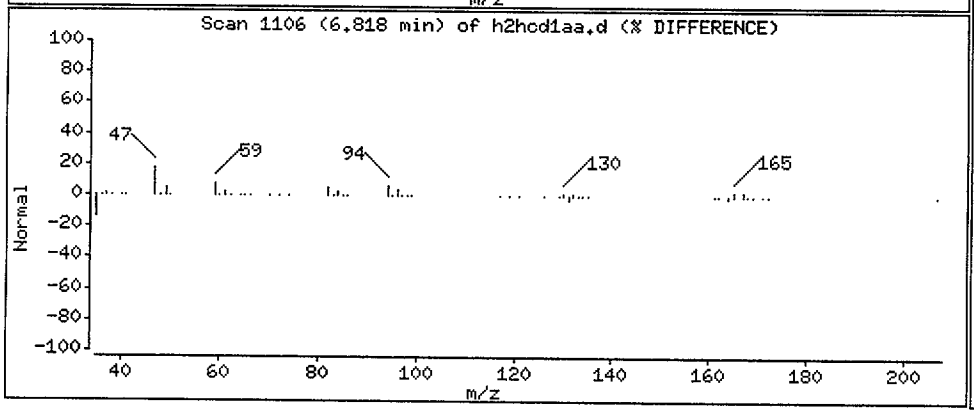












STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0035 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0014 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.049**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.25**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0077 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.023 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0032 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0040 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.012**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	70	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-024 **Work Order #:** H2HCF1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Nonane	111-84-2	0.026 NJ M	7.8805	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Lab Smp Id: H2HCF1AA
Client Smp ID: G-3090-R3-VOST PAIR
Inj Date : 07-APR-2006 16:37
Operator : 22980
Inst ID: mx.i
Smp Info : H2HCF1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:29 tajh
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	863724	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	204605	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.740	10.746	(1.000)	232582	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	99567	6.78017	0.16950
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	81677	7.13541	0.17838
$ 6 Toluene-d8	98	6.250	6.250	(0.824)	705532	7.04297	0.17607
$ 7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	199342	7.22873	0.18072
10 Dichlorodifluoromethane	85	1.128	1.128	(0.232)	8383	0.30662	0.0076656
11 Chloromethane (spcc)	50	1.250	1.262	(0.258)	400680	9.95742	0.24894
14 Bromomethane	94	1.602	1.590	(0.330)	3071	0.25243	0.0063107
15 Chloroethane	64	1.694	1.669	(0.349)	3405	0.19744	~~0.0049360~~
23 Carbon Disulfide	76	2.497	2.497	(0.515)	3747	0.05692	0.0014231
26 Methylene Chloride	84	2.746	2.746	(0.566)	12181	0.91224	0.022806
38 *THF	42	4.103	4.109	(0.846)	776	0.66425	0.016606
39 Chloroform (ccc)	83	4.133	4.139	(0.852)	1524	0.04644	0.0011610
42 1,1-Dichloropropene	75	4.851	4.437	(1.000)	66151	1.93442	~~0.048361~~
43 Benzene	78	4.614	4.607	(0.951)	12345	0.14113	0.0035282
44 1,2-Dichloroethane	62	4.851	4.620	(1.000)	15577	1.05822	~~0.026455~~
45 Trichloroethene	130	5.179	5.173	(1.068)	11143	0.47477	0.011869
52 4-Methyl-2-pentanone	43	6.250	6.147	(1.288)	5433	1.18887	~~0.029722~~

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
53 Toluene (ccc)	91	6.311	6.311	(0.832)	18941	0.15804	0.0039511
54 trans-1,3-Dichloropropene	75	6.725	6.506	(0.887)	1762	0.08392	~~0.0020980~~
56 1,1,2-Trichloroethane	97	6.262	6.670	(0.826)	64442	6.80685	~~0.17017~~
57 Tetrachloroethene	164	6.816	6.816	(0.899)	3272	0.12710	0.0031774
59 2-Hexanone	43	6.998	6.907	(0.923)	1614	0.40301	~~0.010075~~
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	121138	1.96899	0.049225
64 Ethylbenzene (ccc)	106	7.832	7.716	(1.033)	2778	0.06567	~~0.0016418~~
66 o-Xylene	106	7.832	8.251	(1.033)	2778	0.06536	~~0.0016341~~
80 1,2,4-Trimethylbenzene	105	10.089	10.125	(0.939)	4367	0.05820	~~0.0014550~~
82 1,3-Dichlorobenzene	146	10.795	10.612	(1.005)	3022	0.07713	~~0.0019283~~
84 1,4-Dichlorobenzene	146	10.795	10.788	(1.005)	2845	0.08017	0.0020043
90 Napthalene	128	13.952	13.946	(1.299)	2095	0.20761	0.0051903

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcf1aa.d
Lab Smp Id: H2HCF1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3090-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	863724	-24.84
2 Chlorobenzene-d5	214194	107097	428388	204605	-4.48
3 1,4 Dichlorobenze	242601	121300	485202	232582	-4.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.00
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.06

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.

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:31

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCF1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3090-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

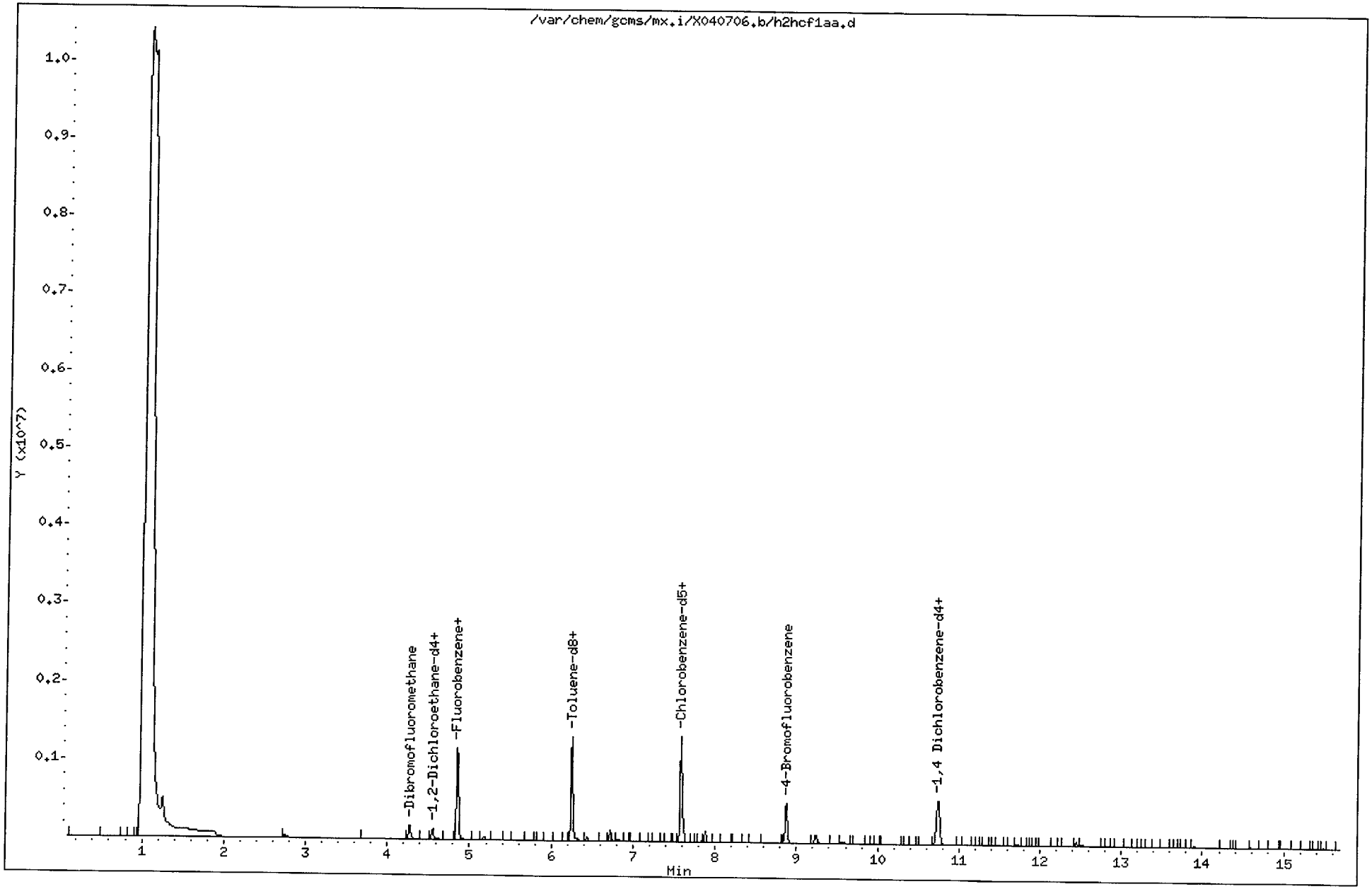
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.16950	67.80	50-150
$ 5 1,2-Dichloroethane	0.25000	0.17838	71.35	50-150
$ 6 Toluene-d8	0.25000	0.17607	70.43	50-150
$ 7 4-Bromofluorobenze	0.25000	0.18072	72.29	50-150

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Date : 07-APR-2006 16:37
Client ID: G-3090-R3-VOST PAIR
Sample Info: H2HCF1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

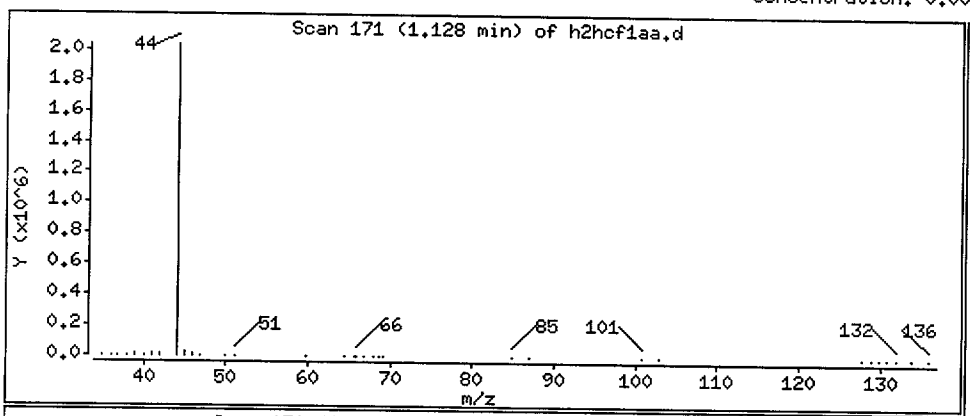
Operator: 22980

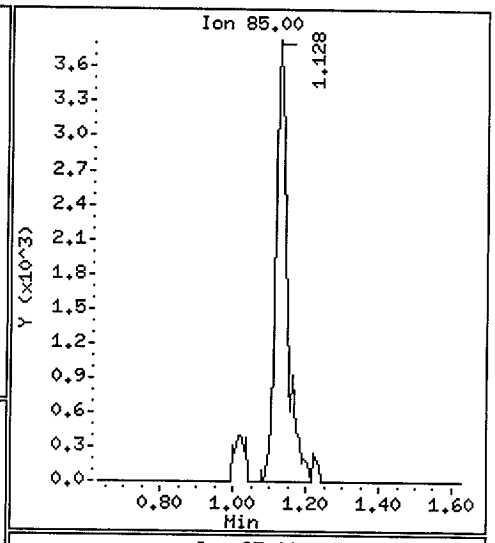
Column phase: J+W 624

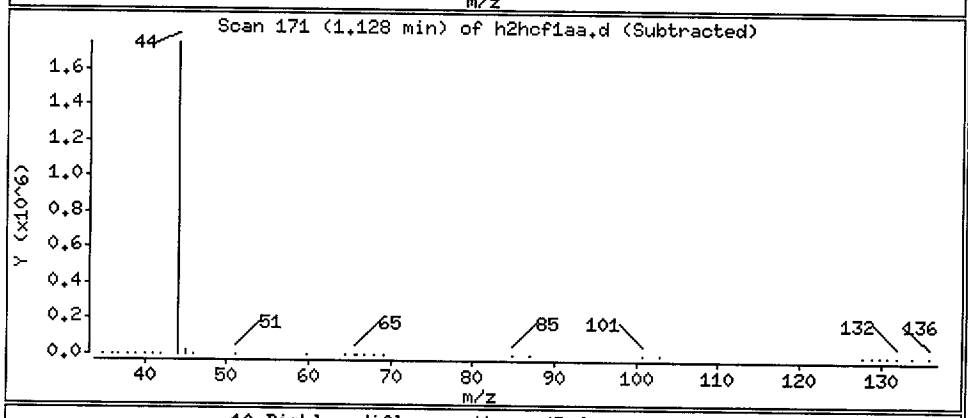
Column diameter: 0.18

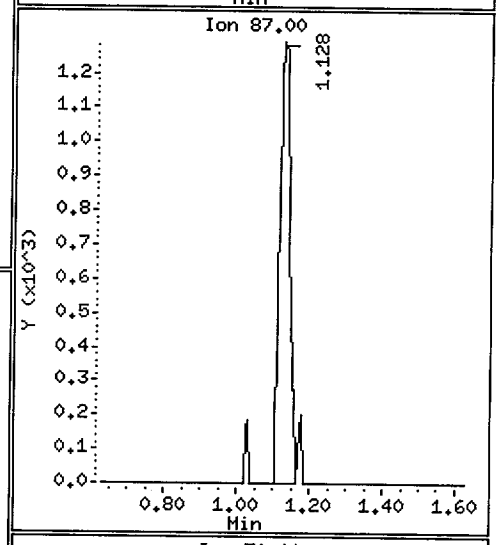
10 Dichlorodifluoromethane

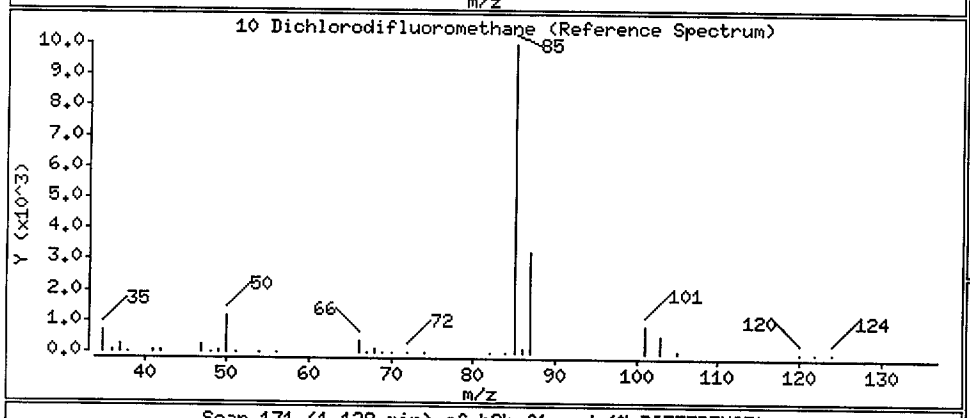
Concentration: 0.0076656 ug

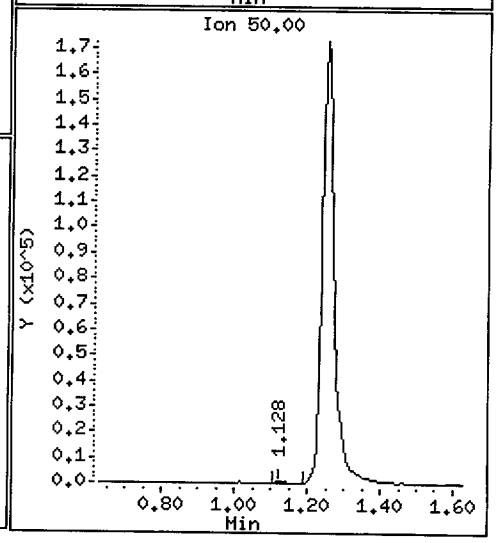


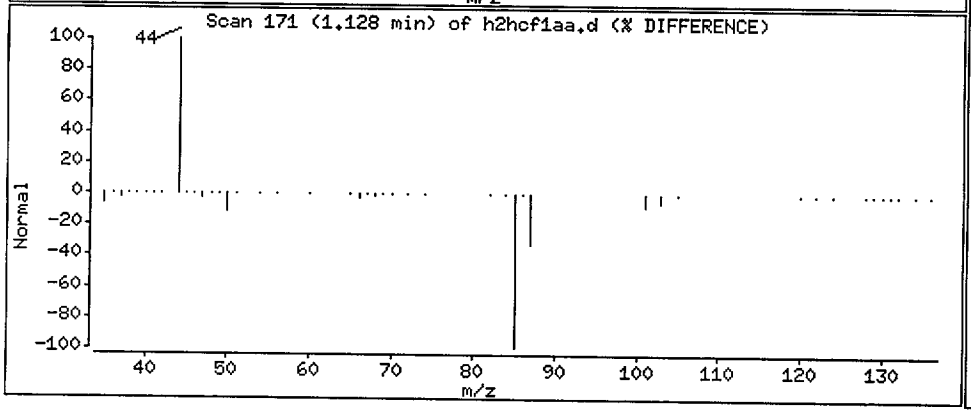












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

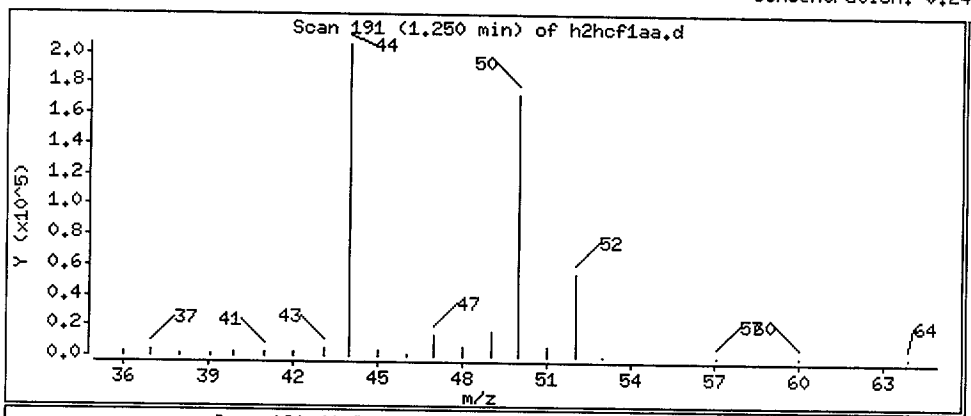
Operator: 22980

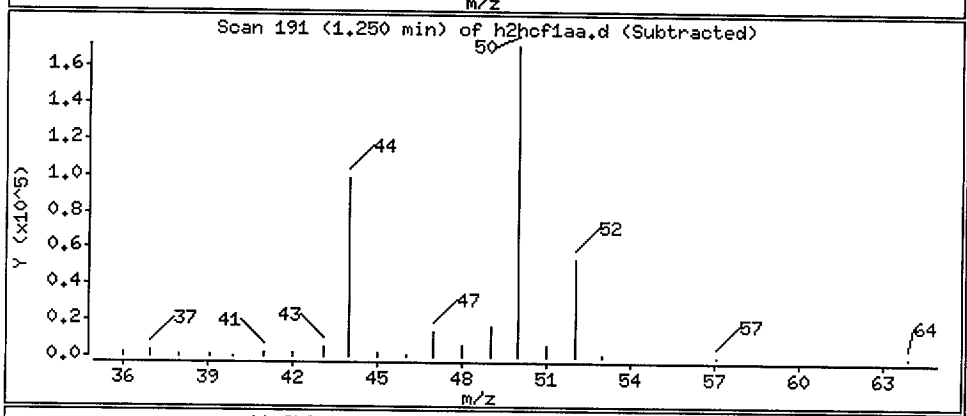
Column phase: J+W 624

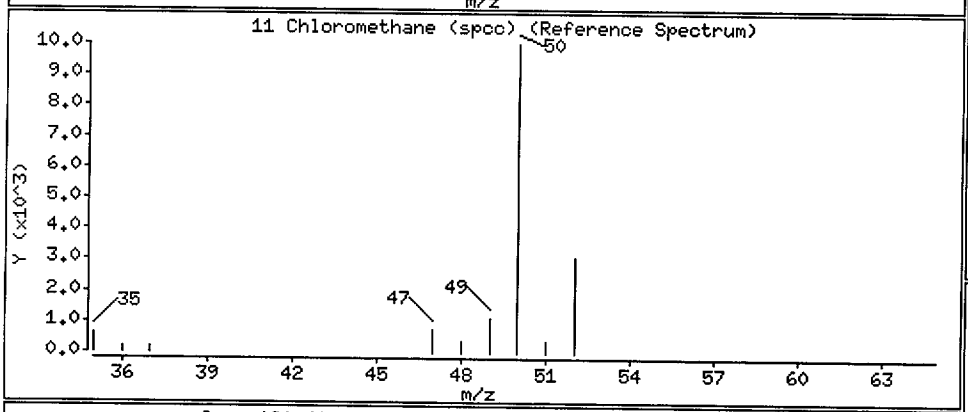
Column diameter: 0.18

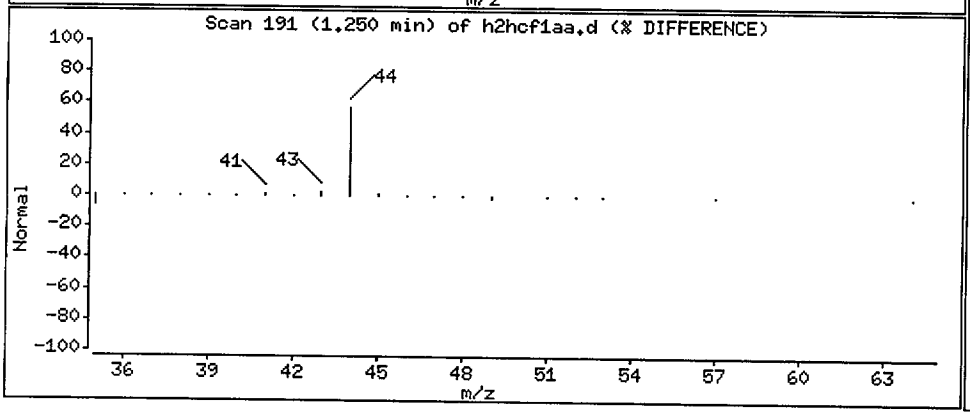
11 Chloromethane (spcc)

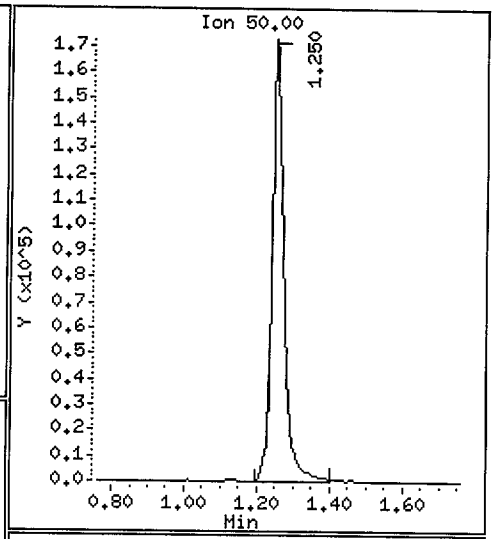
Concentration: 0.24894 ug

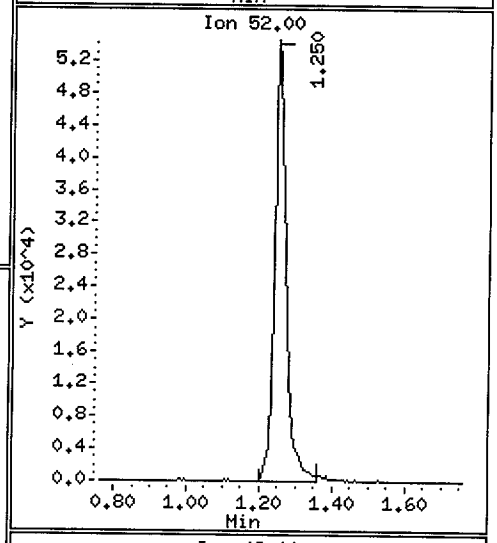


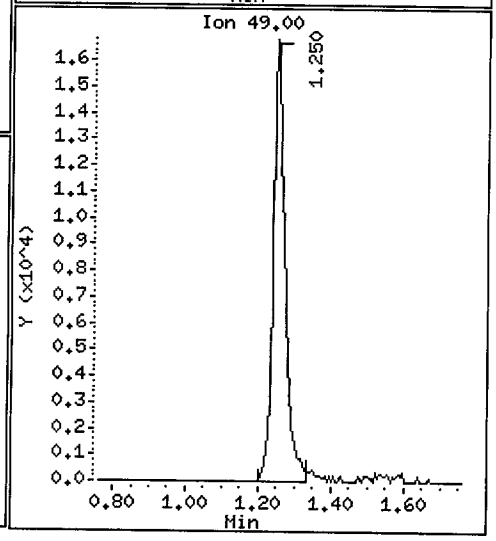












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

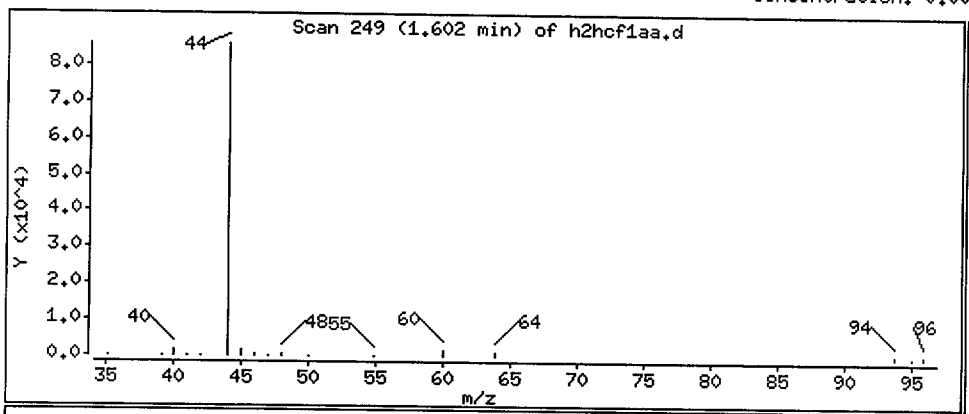
Operator: 22980

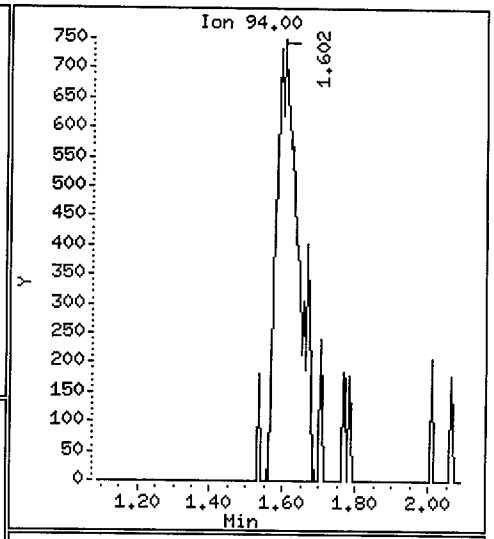
Column phase: J+W 624

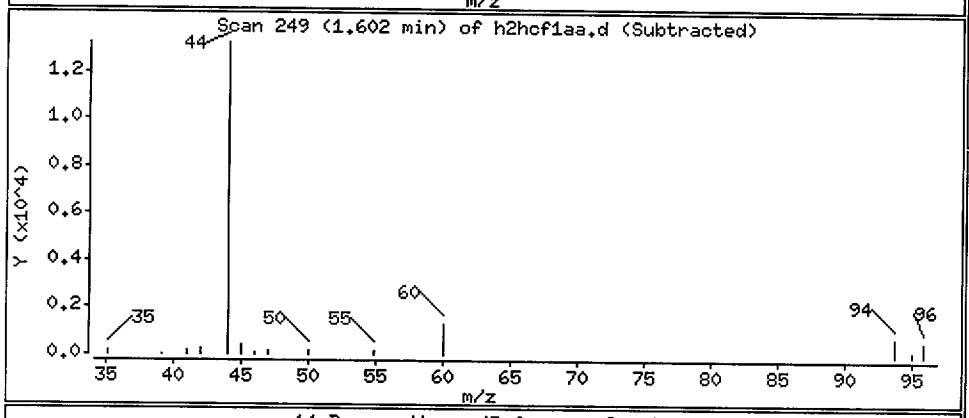
Column diameter: 0.18

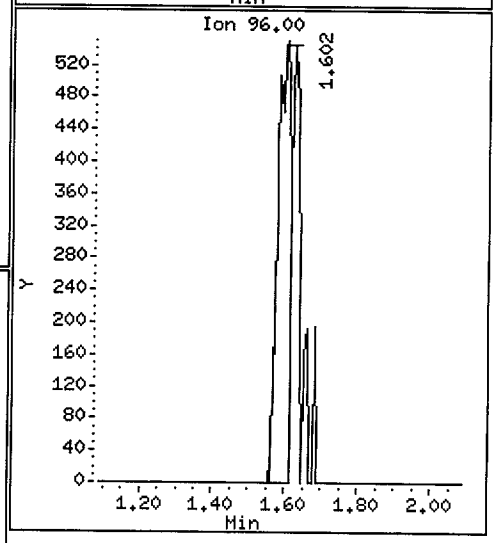
14 Bromomethane

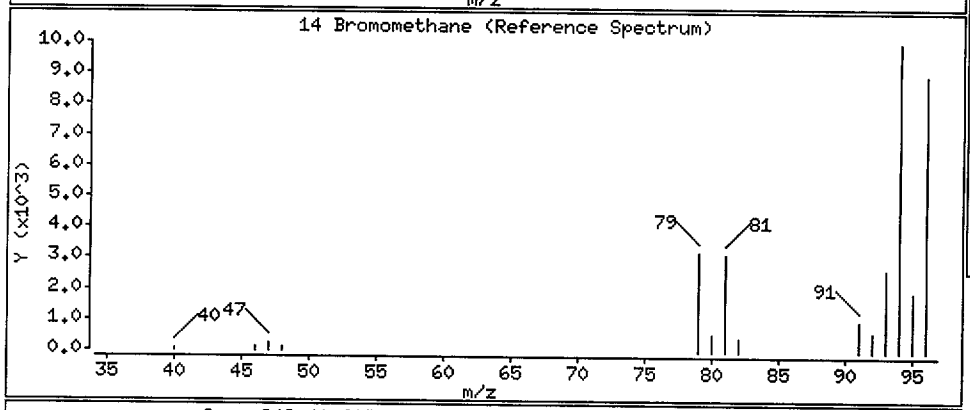
Concentration: 0.0063107 ug

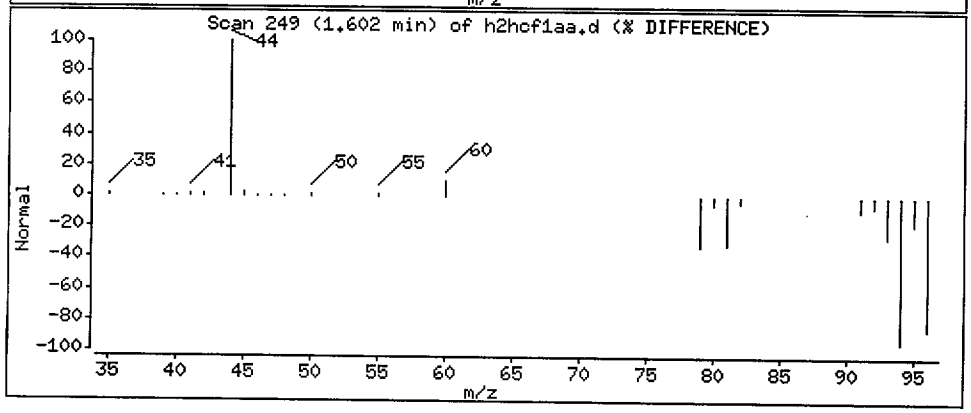












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

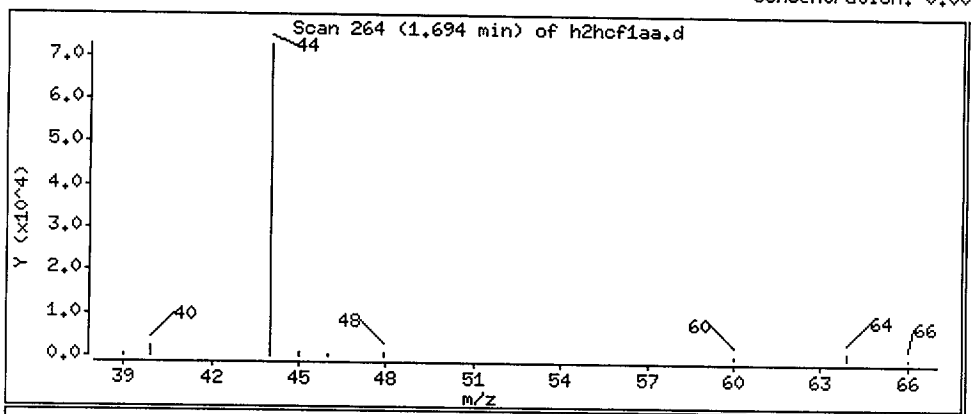
Operator: 22980

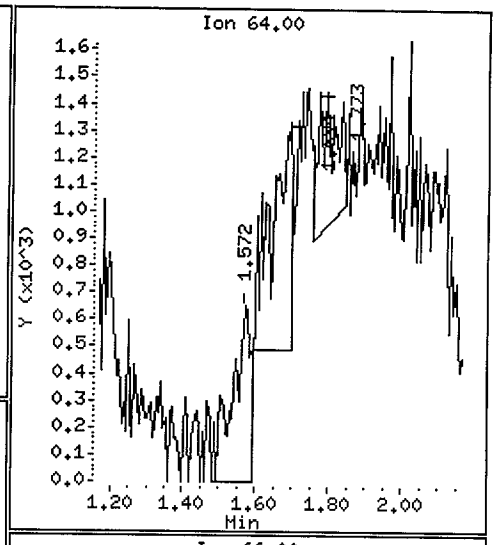
Column phase: J+W 624

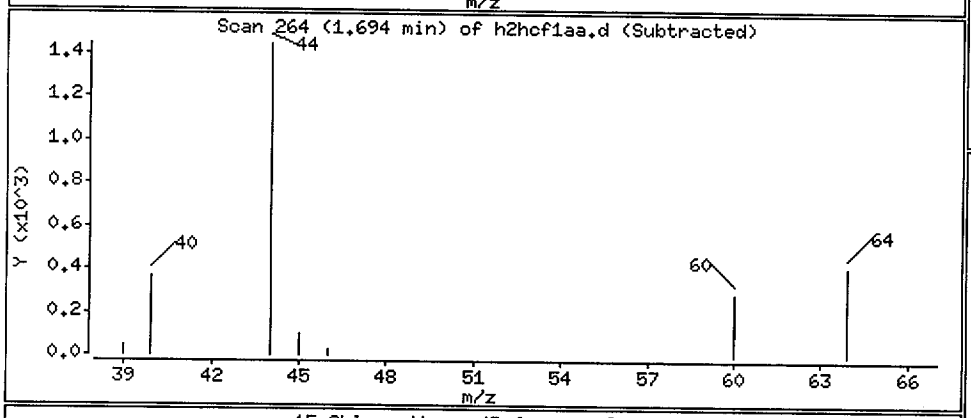
Column diameter: 0.18

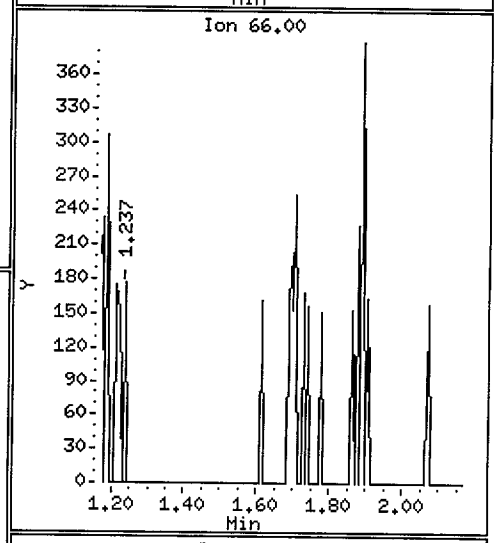
15 Chloroethane

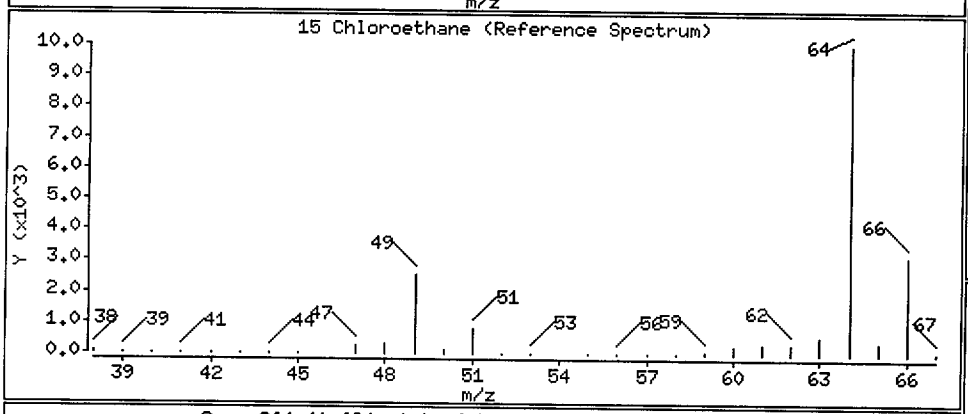
Concentration: 0.0049360 ug

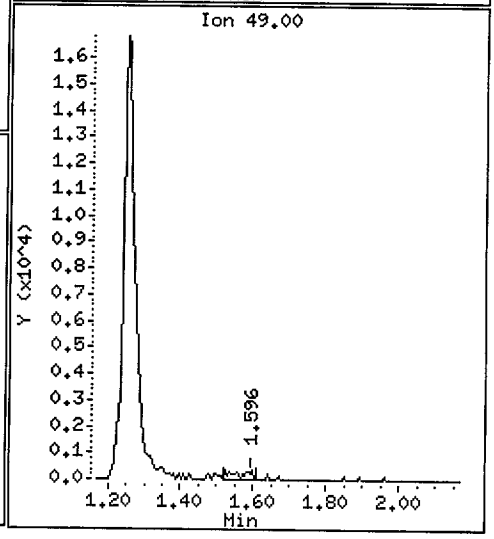


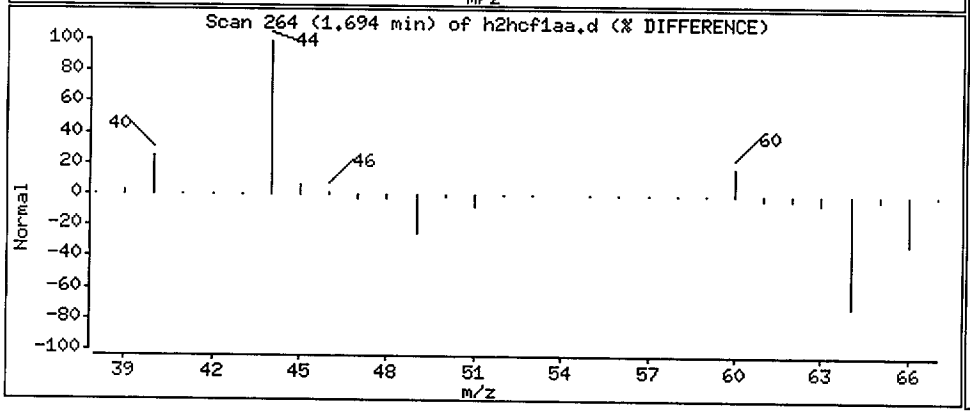












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

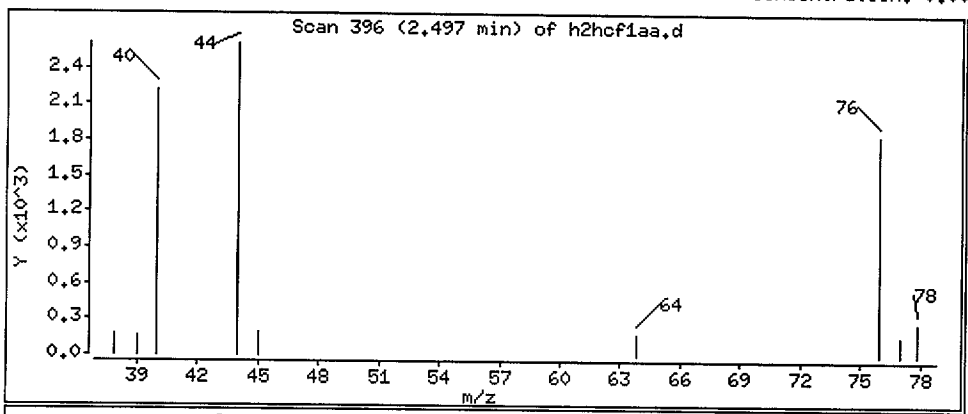
Operator: 22980

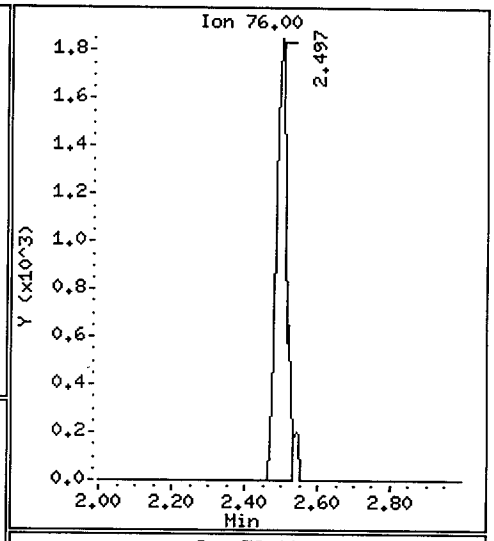
Column phase: J+W 624

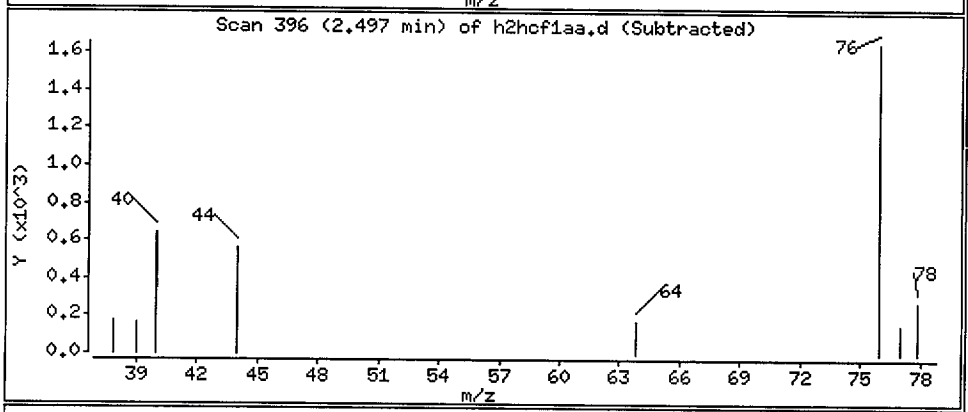
Column diameter: 0.18

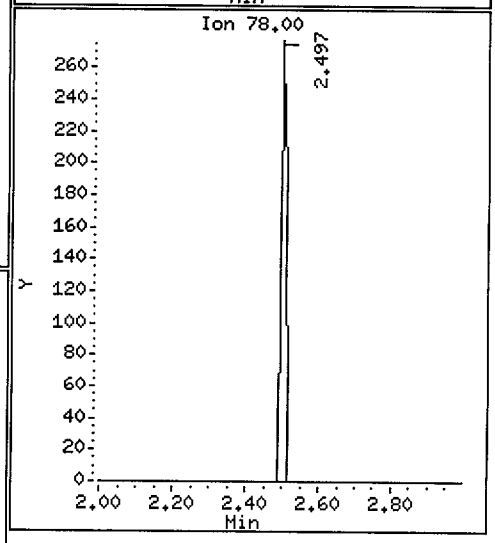
23 Carbon Disulfide

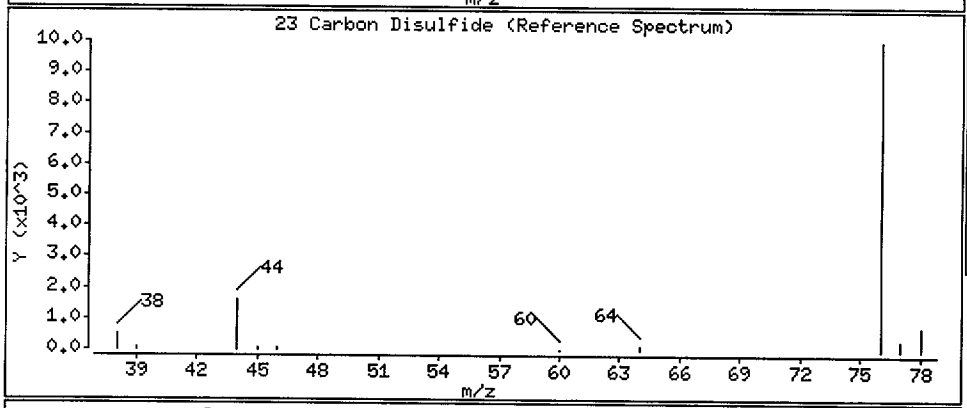
Concentration: 0.0014231 ug

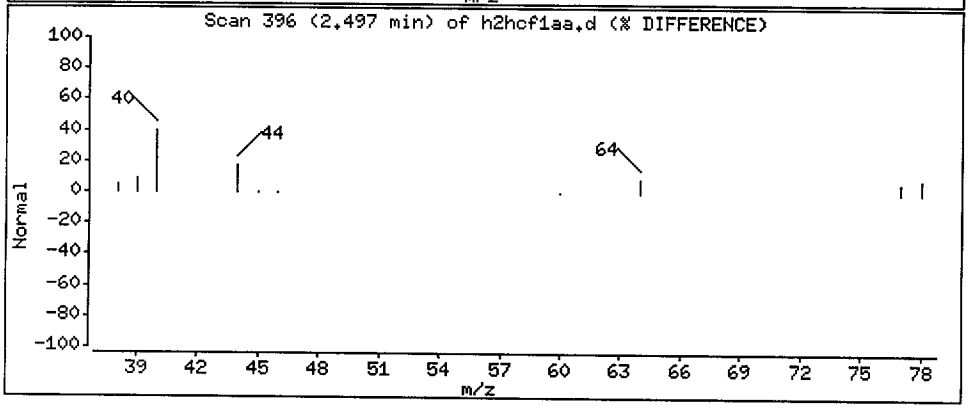












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

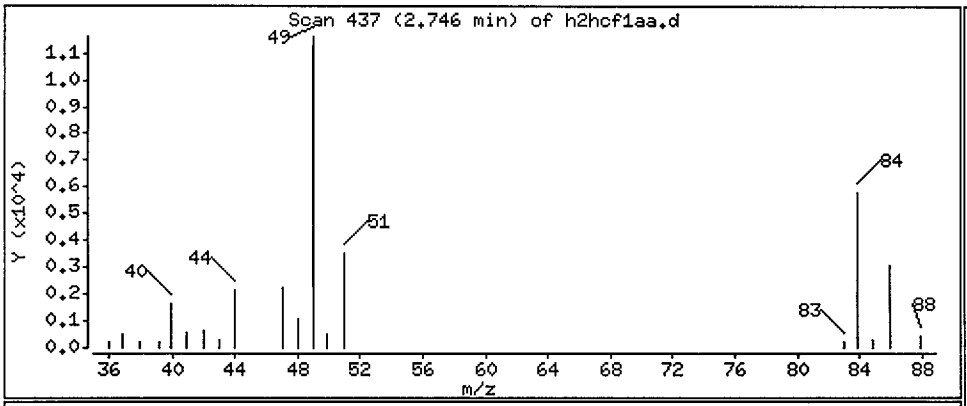
Operator: 22980

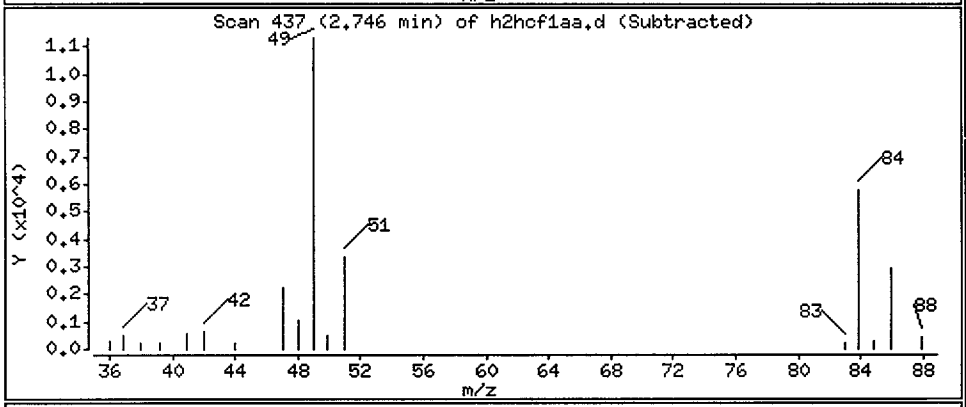
Column phase: J+W 624

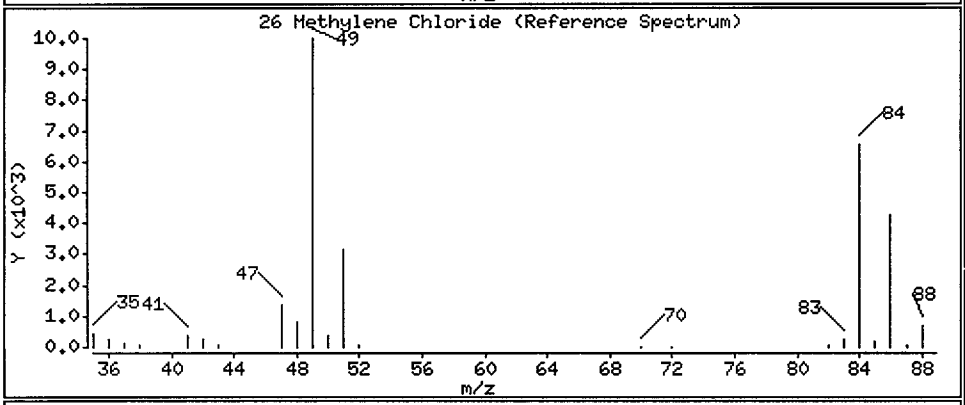
Column diameter: 0.18

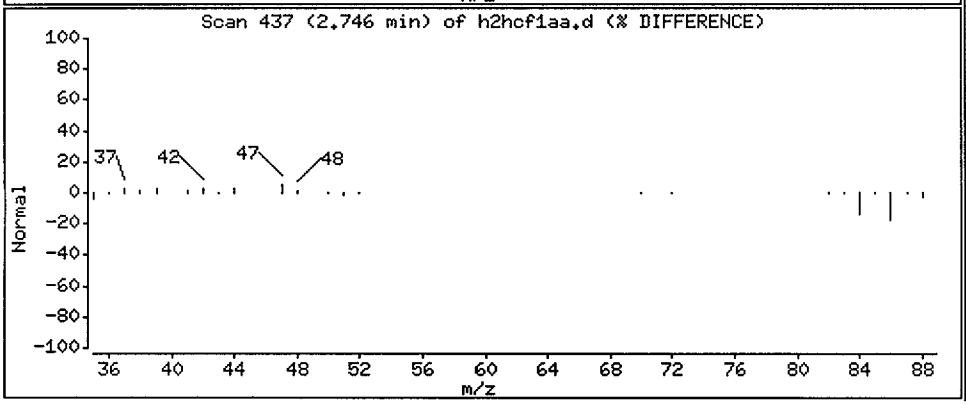
26 Methylene Chloride

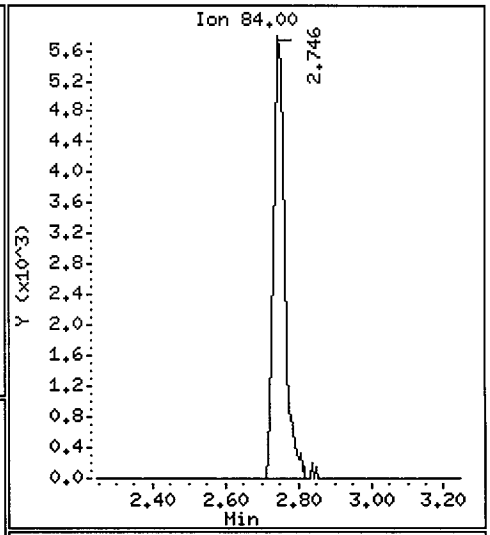
Concentration: 0.022806 ug

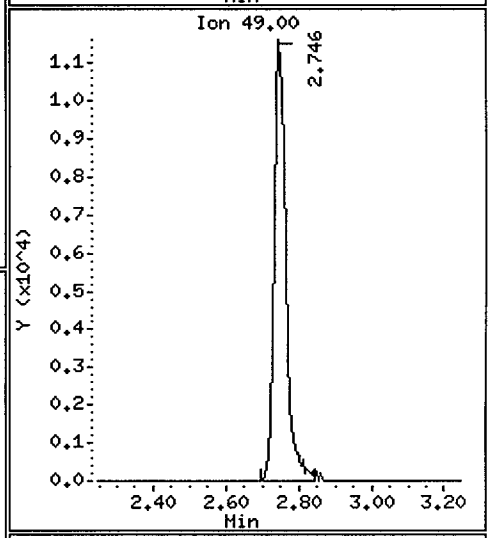


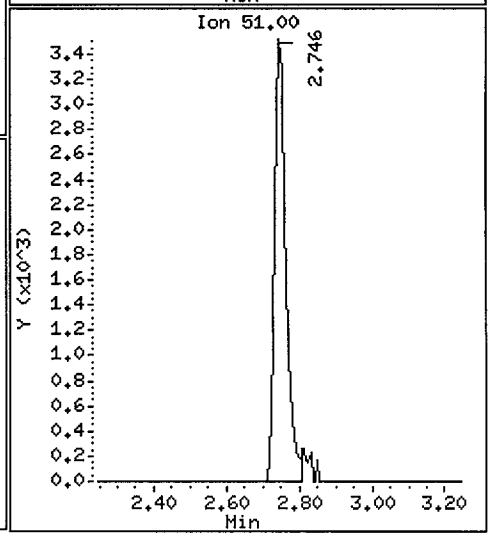












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

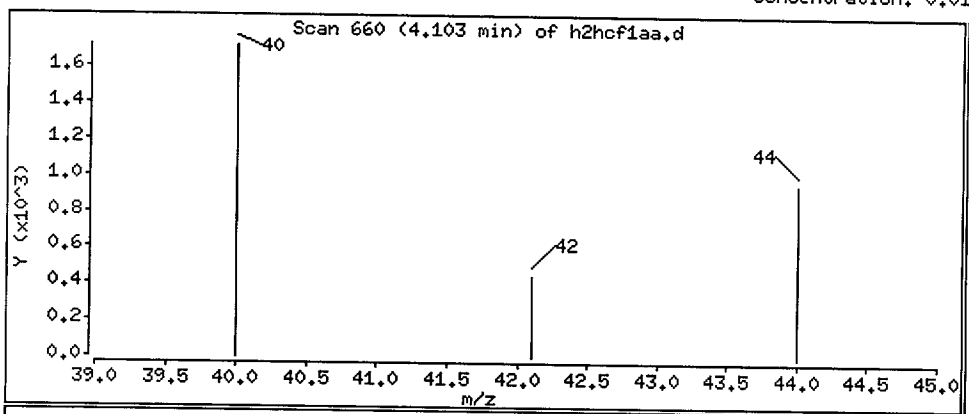
Operator: 22980

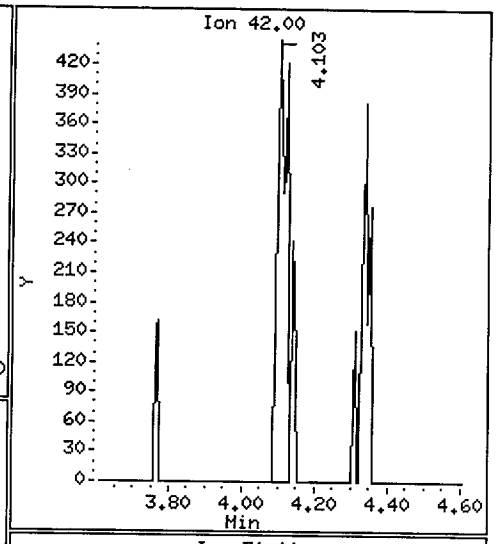
Column phase: J+W 624

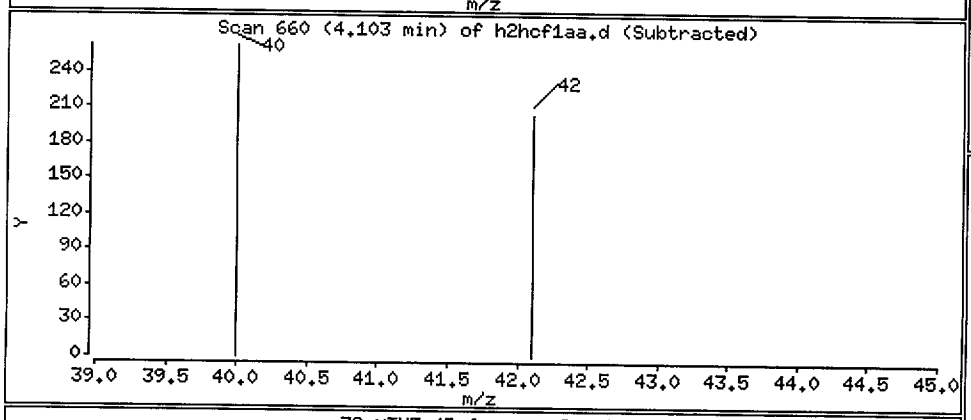
Column diameter: 0.18

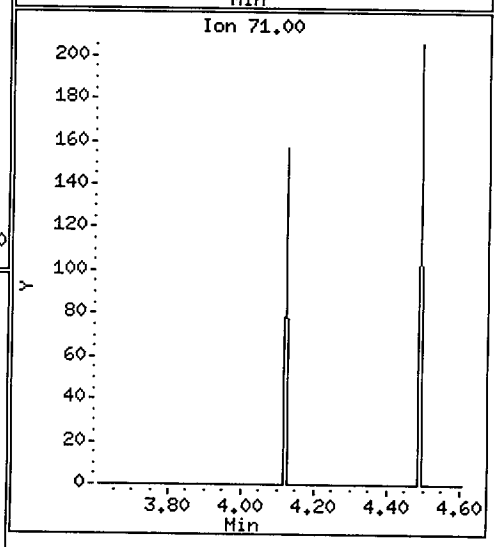
38 *THF

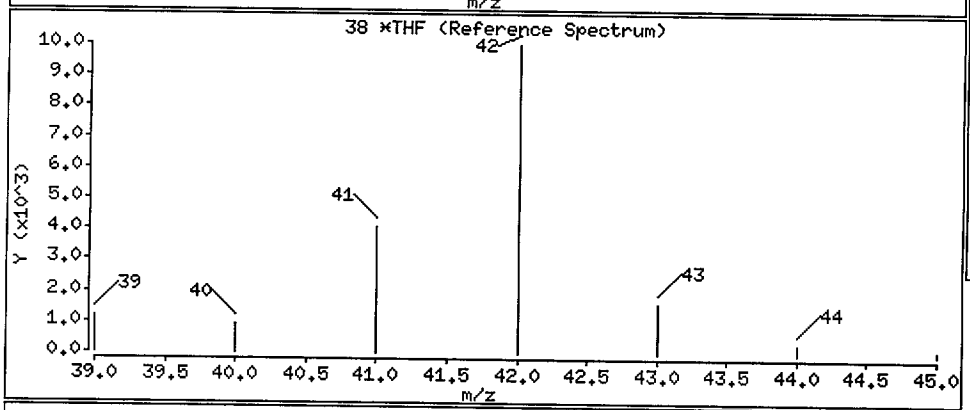
Concentration: 0.016606 ug

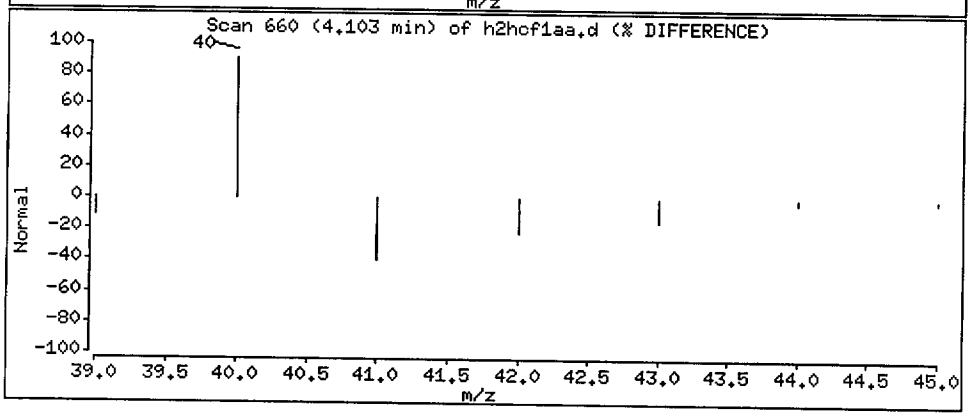












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

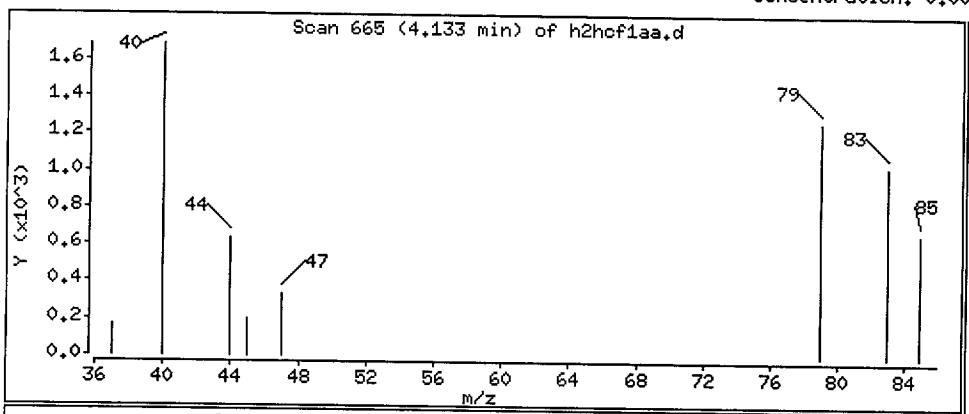
Operator: 22980

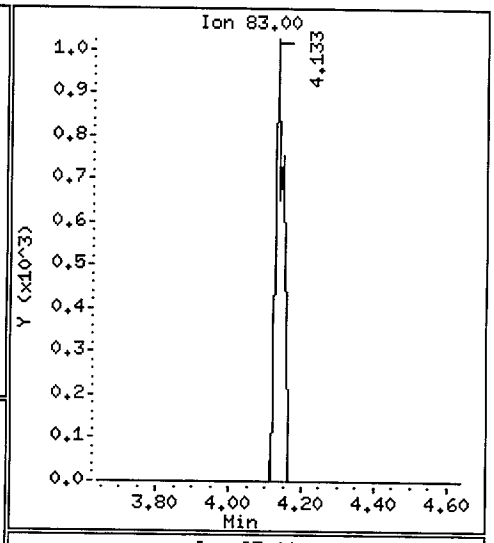
Column phase: J+W 624

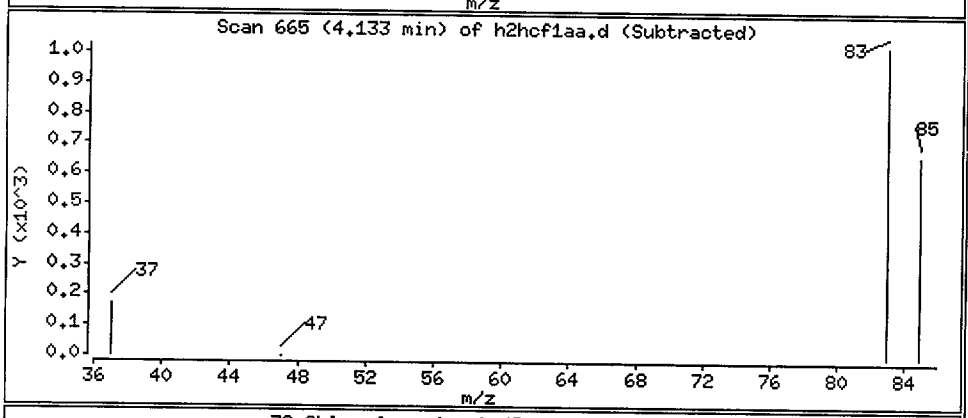
Column diameter: 0.18

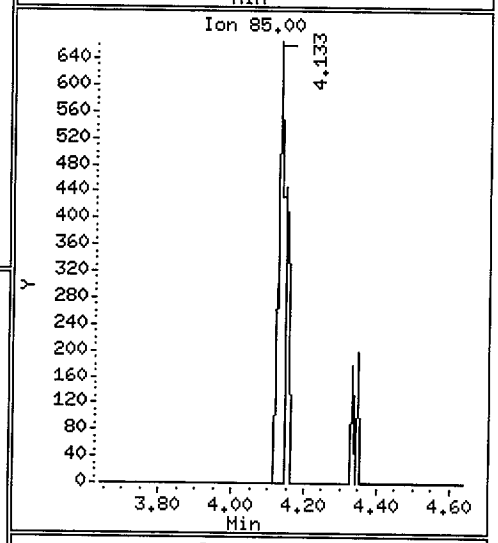
39 Chloroform (ccc)

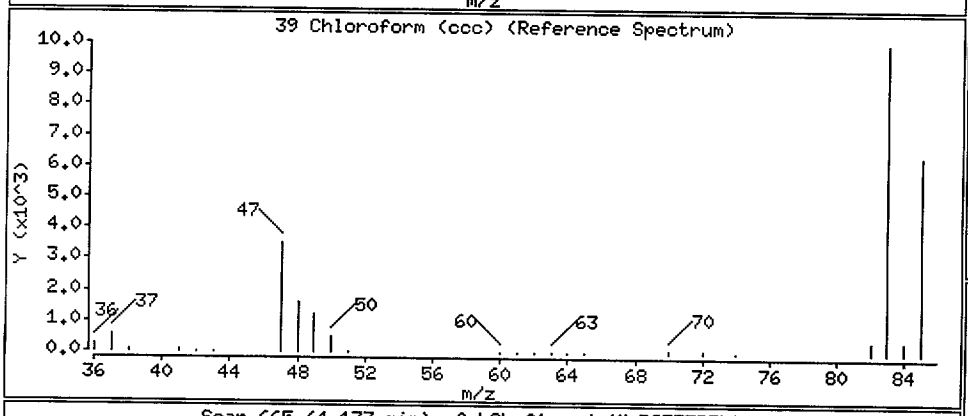
Concentration: 0.0011610 ug

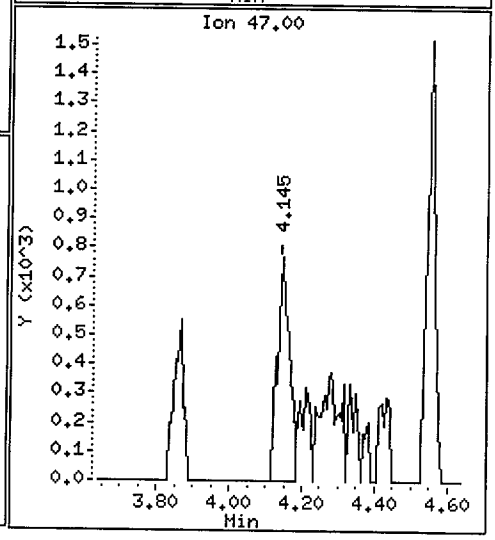


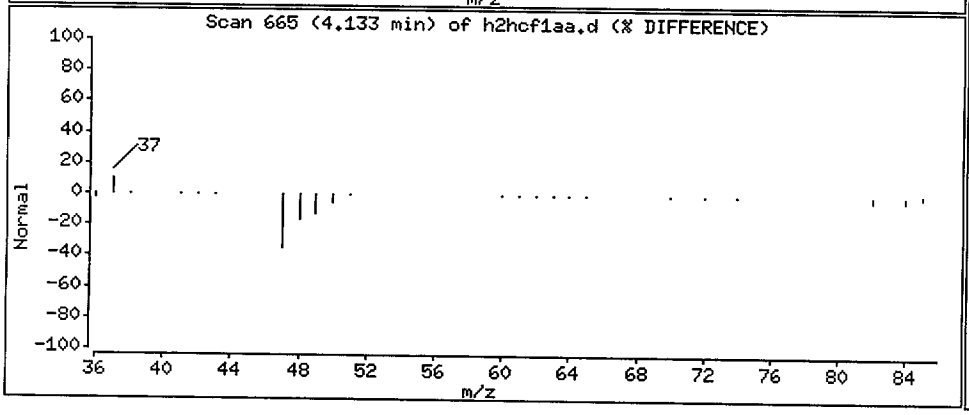












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

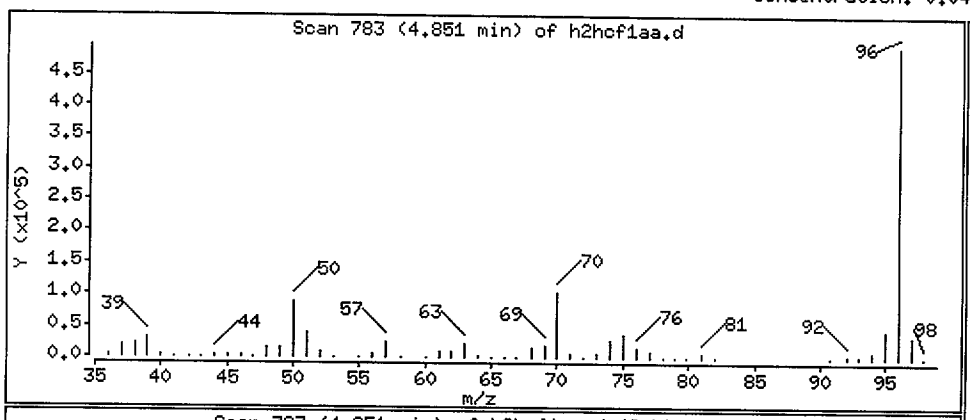
Operator: 22980

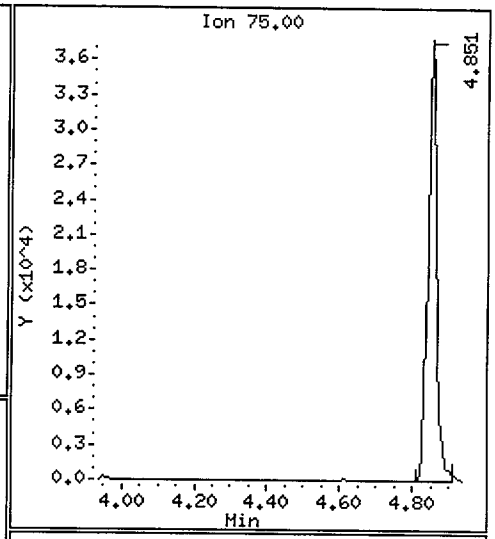
Column phase: J+W 624

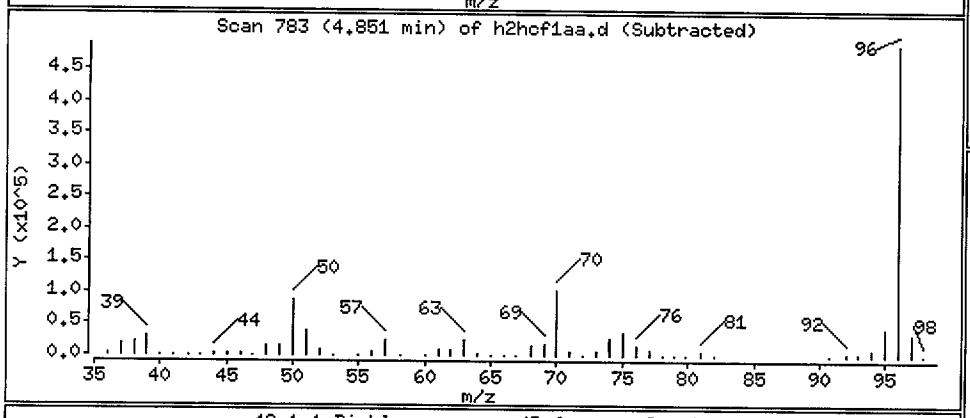
Column diameter: 0.18

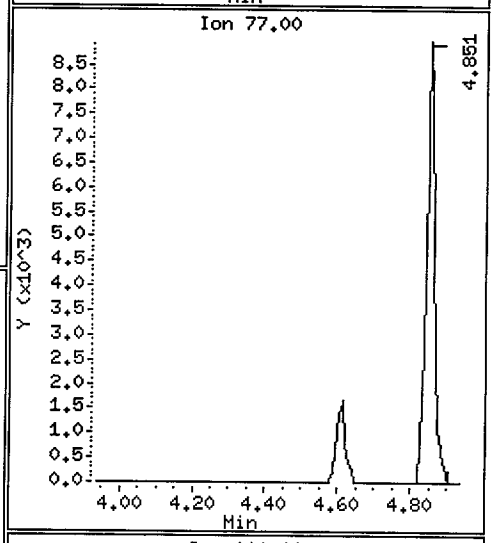
42 1,1-Dichloropropene

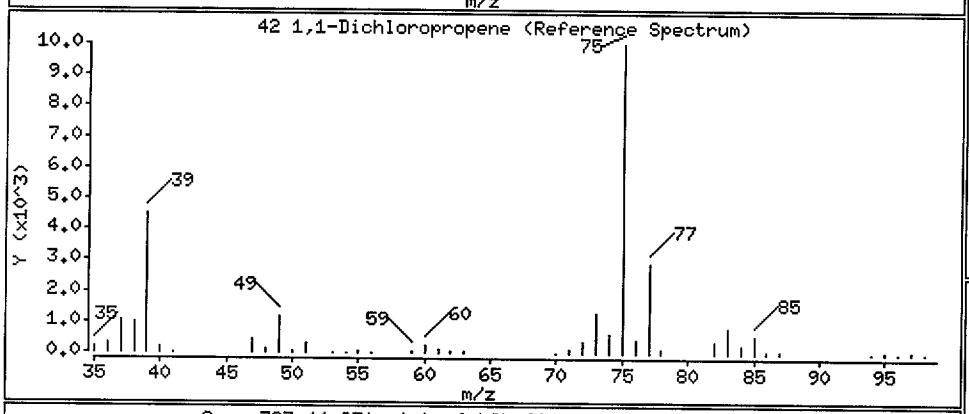
Concentration: 0.048361 ug

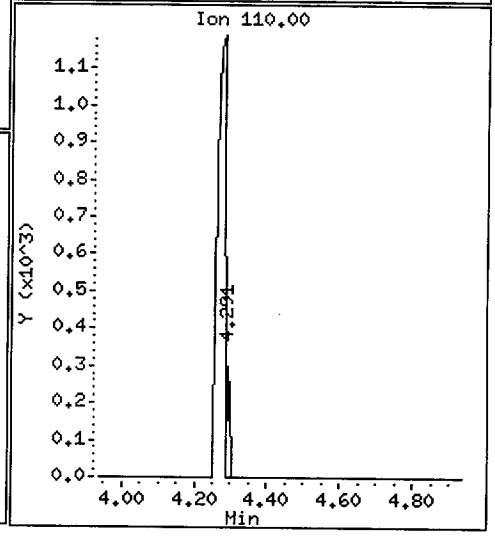


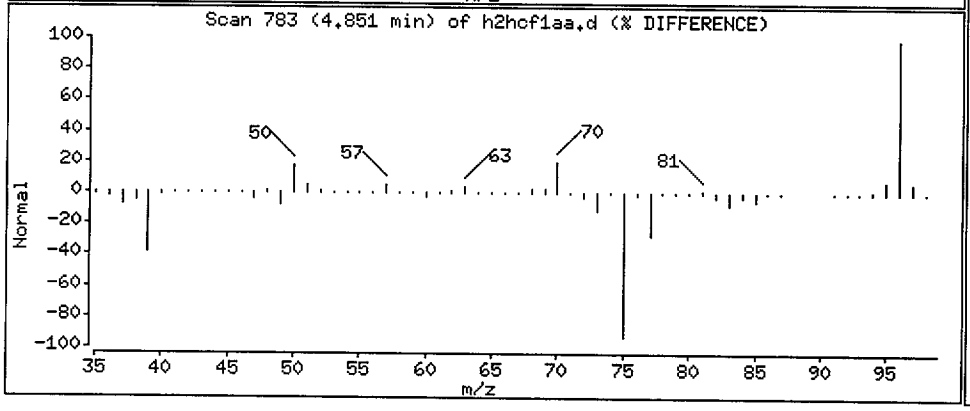












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

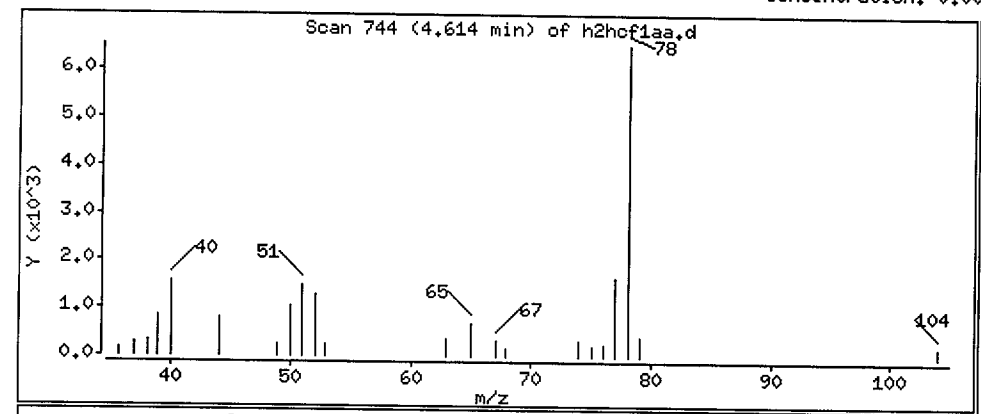
Operator: 22980

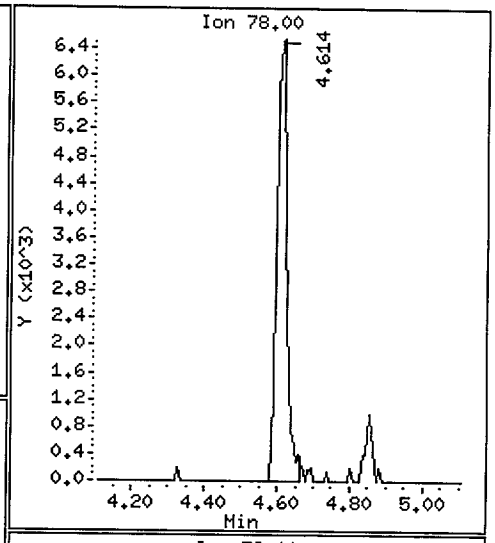
Column phase: J+W 624

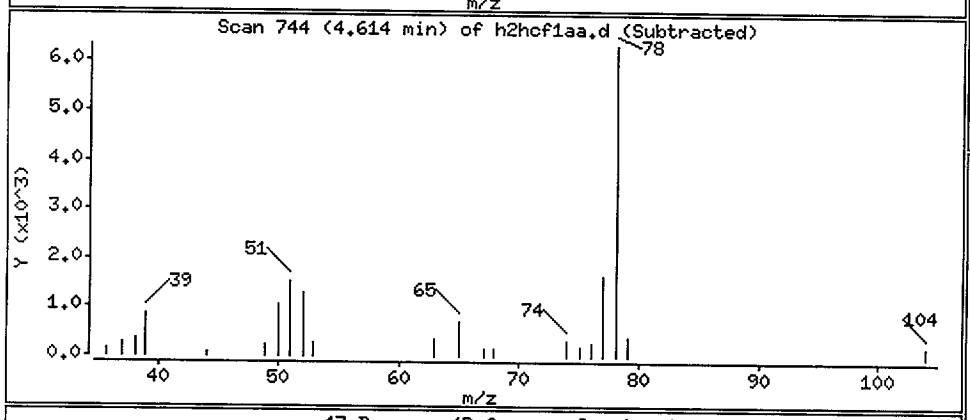
Column diameter: 0.18

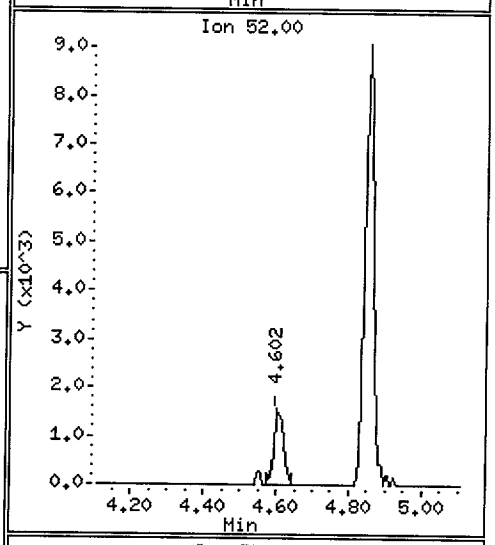
43 Benzene

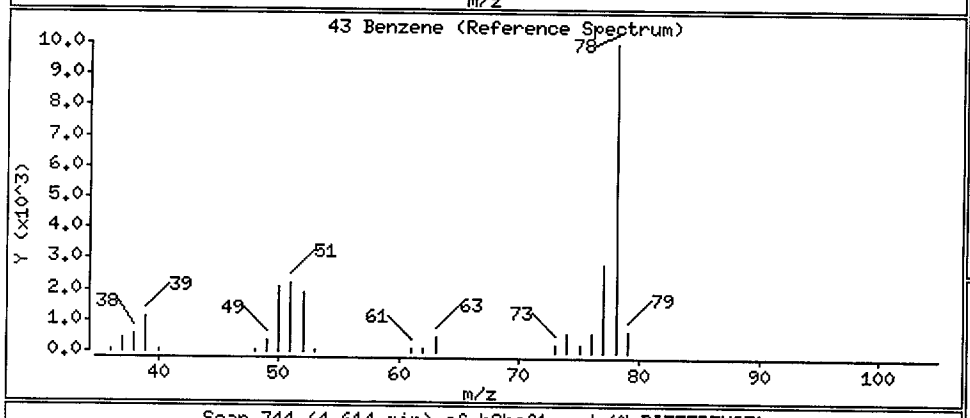
Concentration: 0.0035282 ug

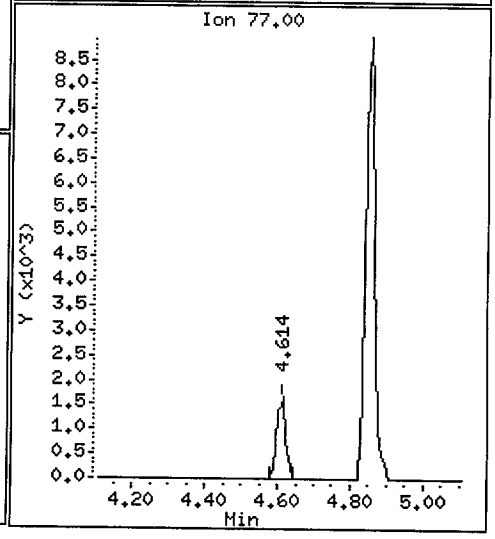


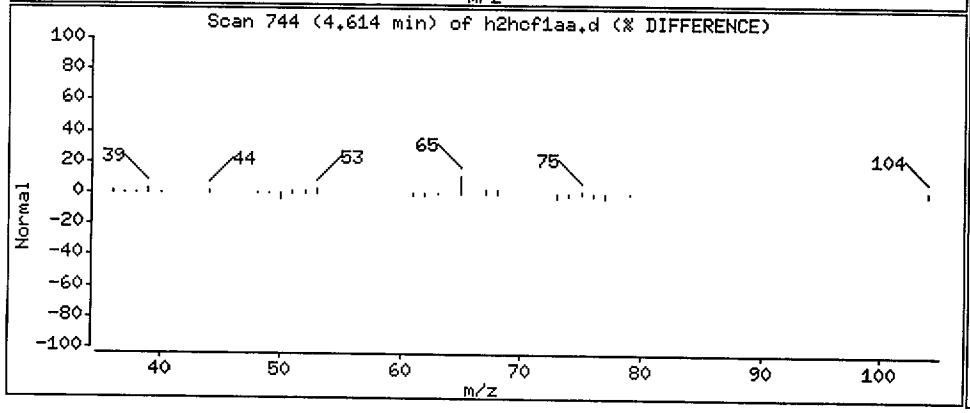












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

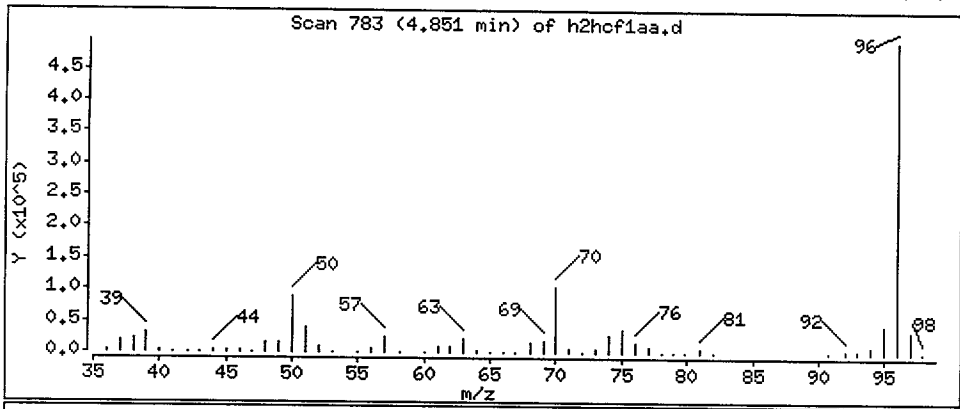
Operator: 22980

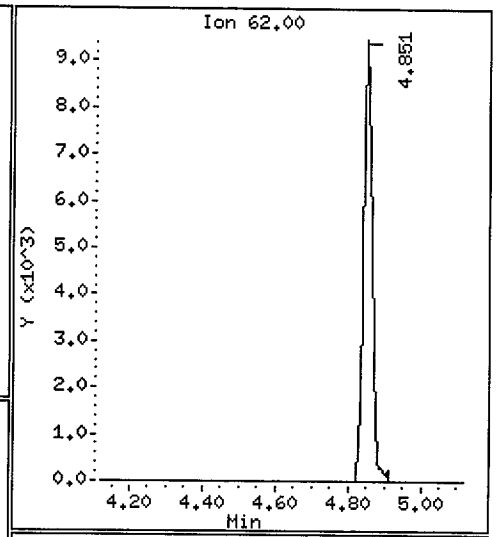
Column phase: J+W 624

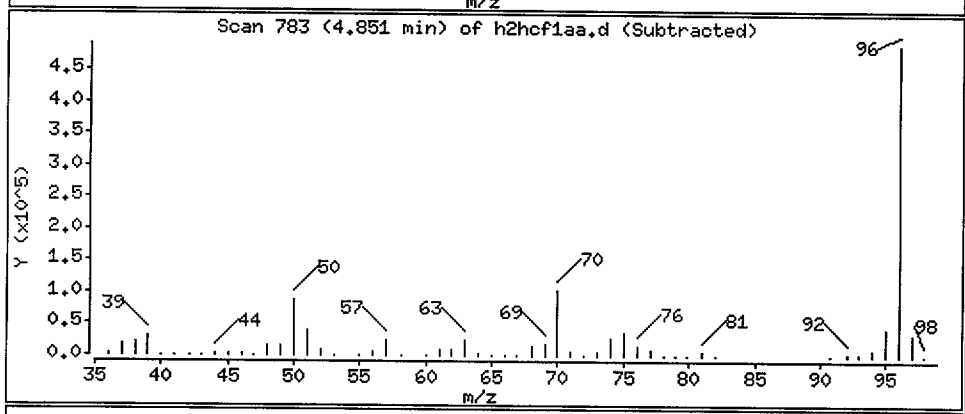
Column diameter: 0.18

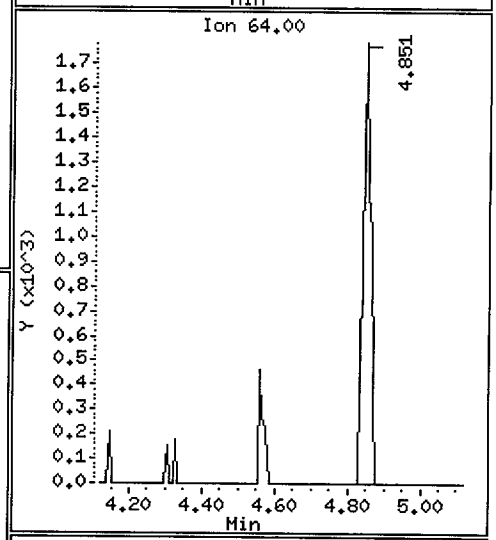
44 1,2-Dichloroethane

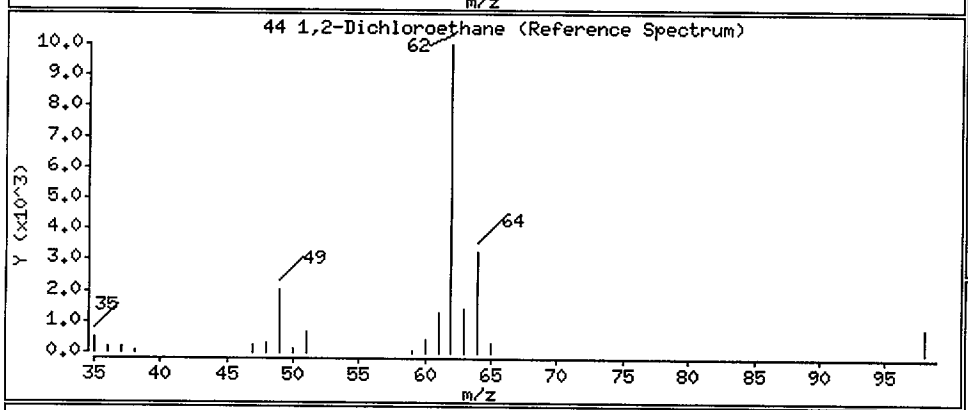
Concentration: 0.026455 ug

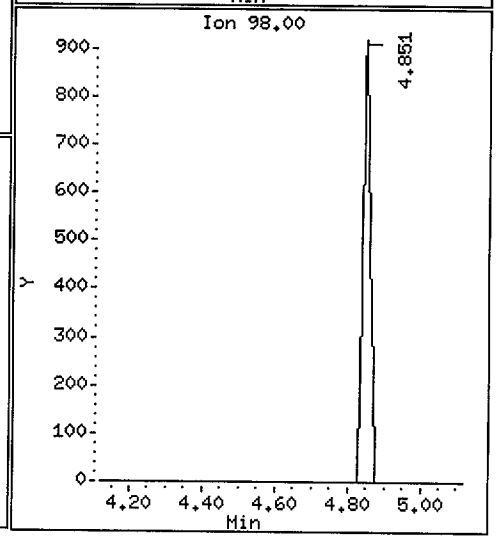


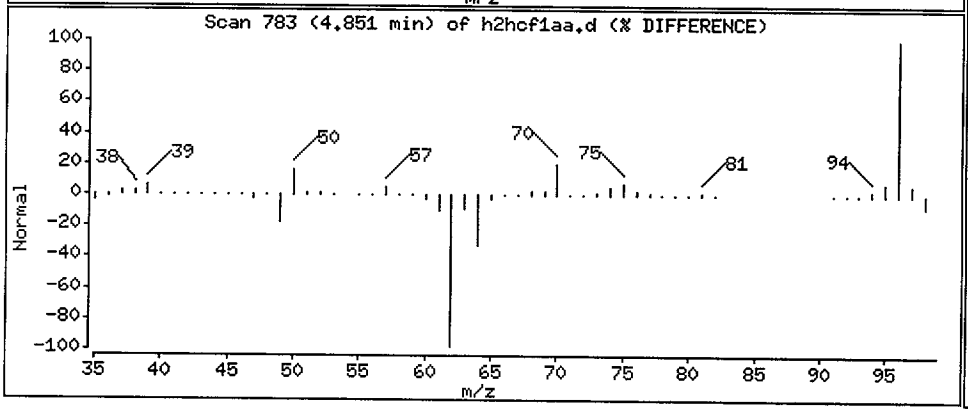












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

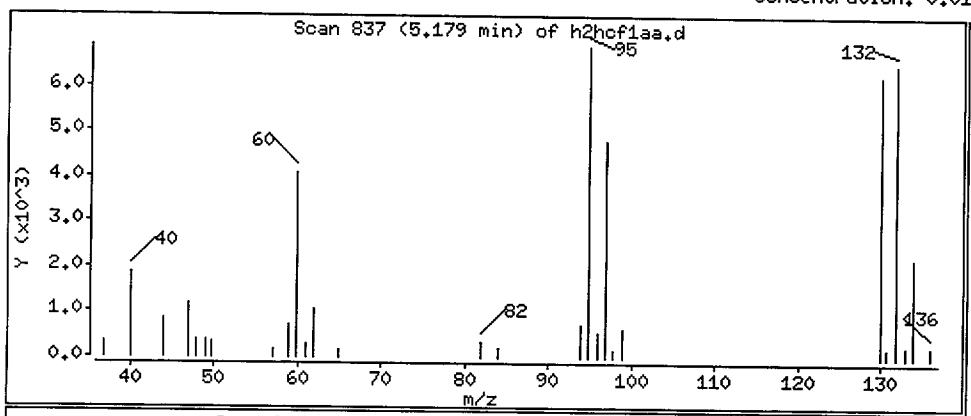
Operator: 22980

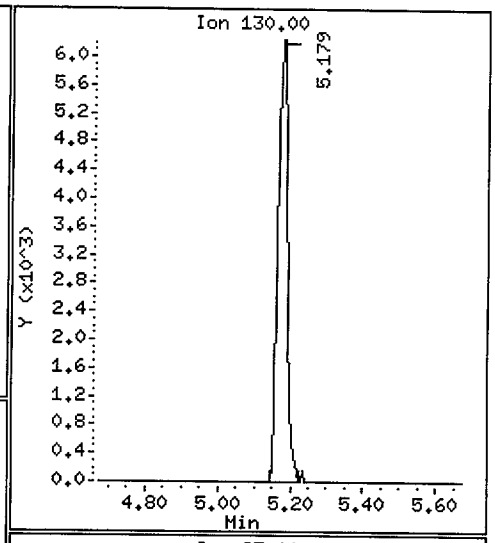
Column phase: J+W 624

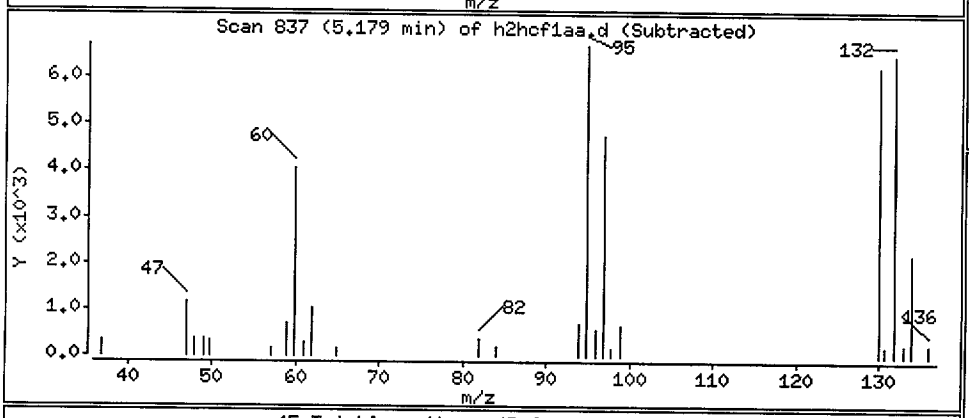
Column diameter: 0.18

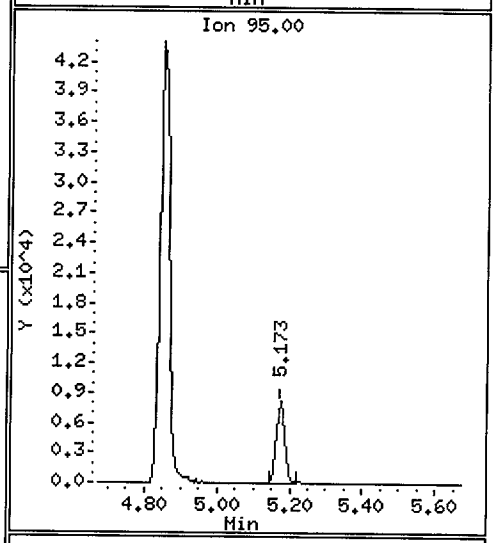
45 Trichloroethene

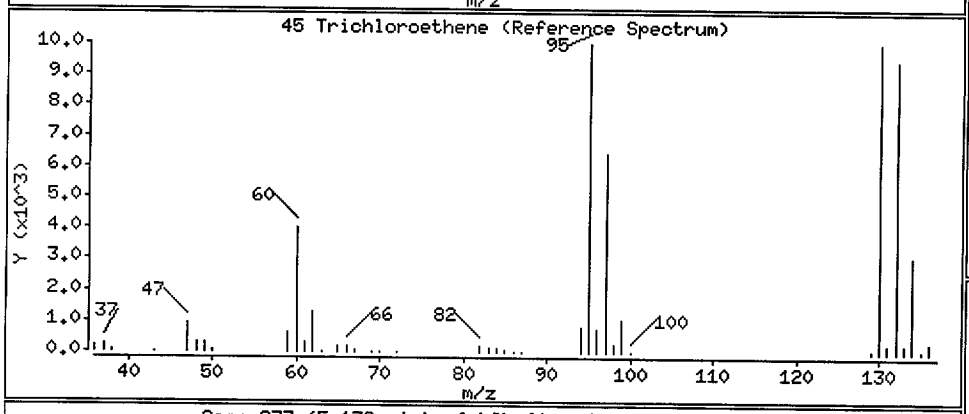
Concentration: 0.011869 ug

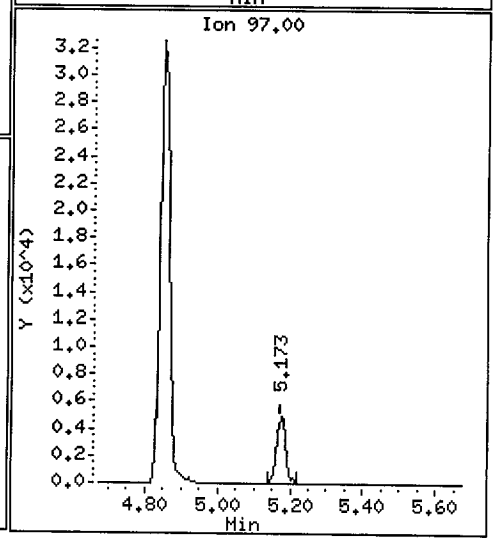


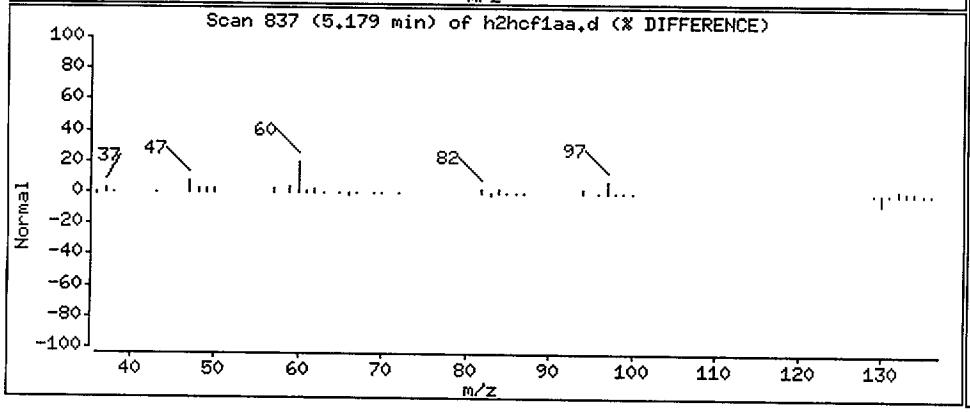












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

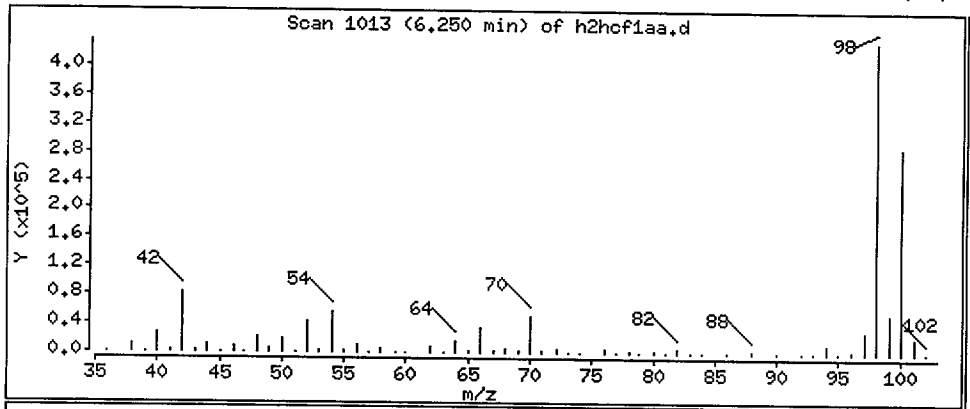
Operator: 22980

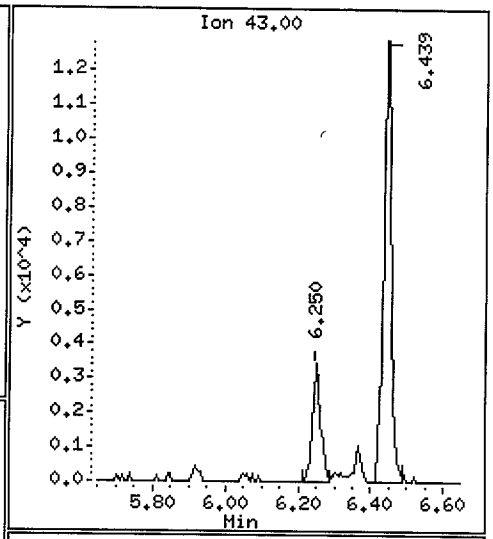
Column phase: J+W 624

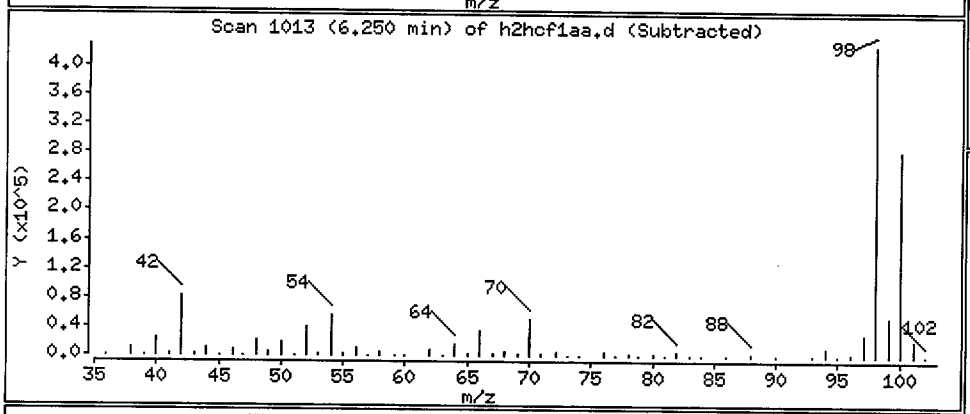
Column diameter: 0.18

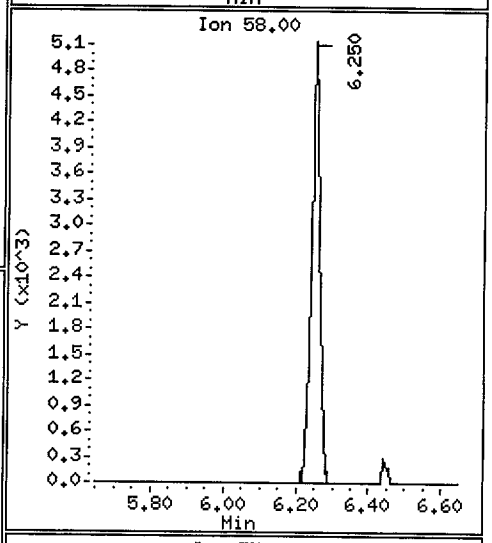
52 4-Methyl-2-pentanone

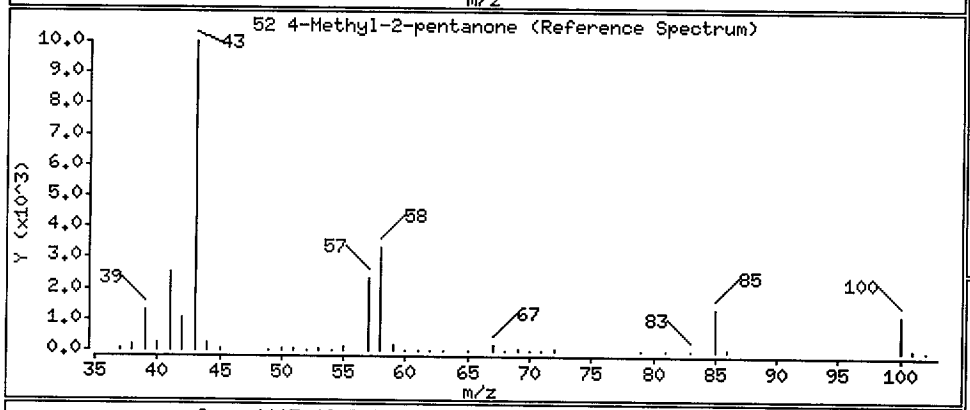
Concentration: 0.029722 ug

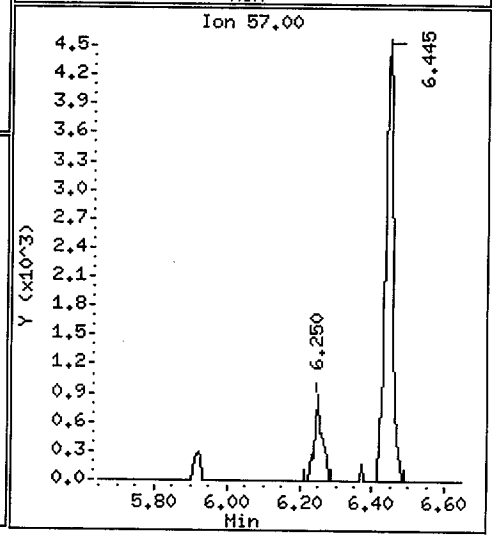


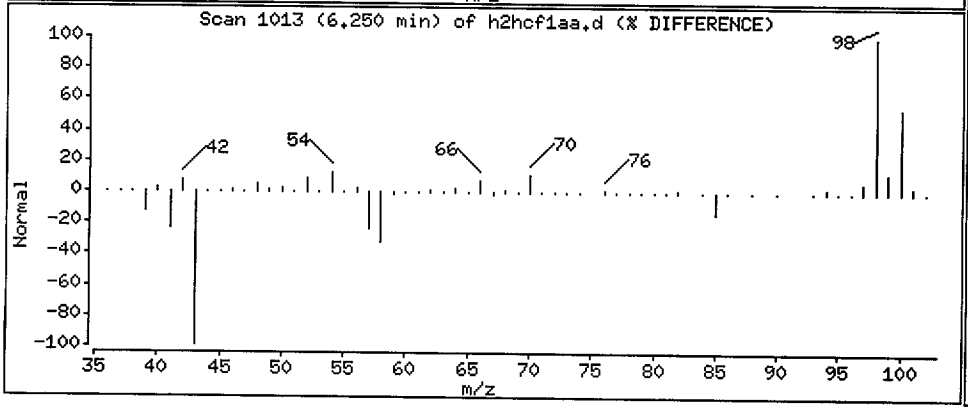












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

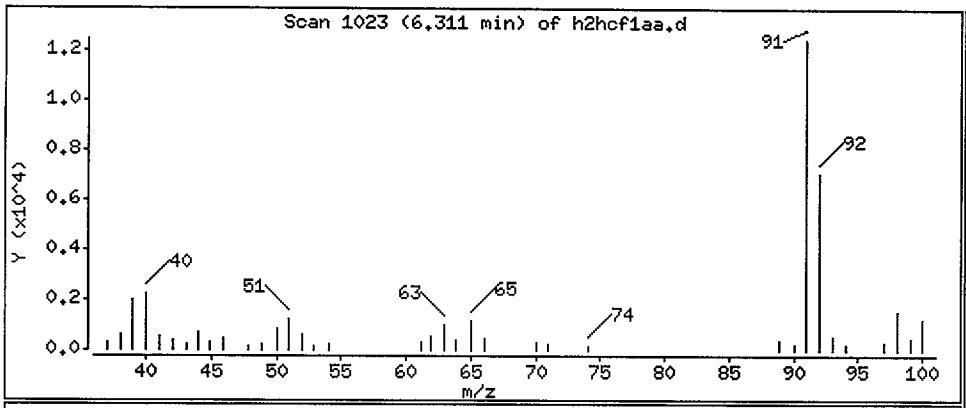
Operator: 22980

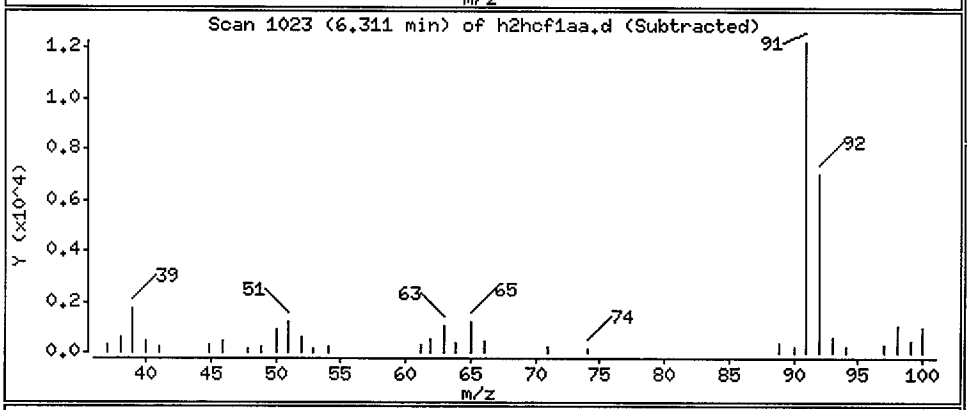
Column phase: J+W 624

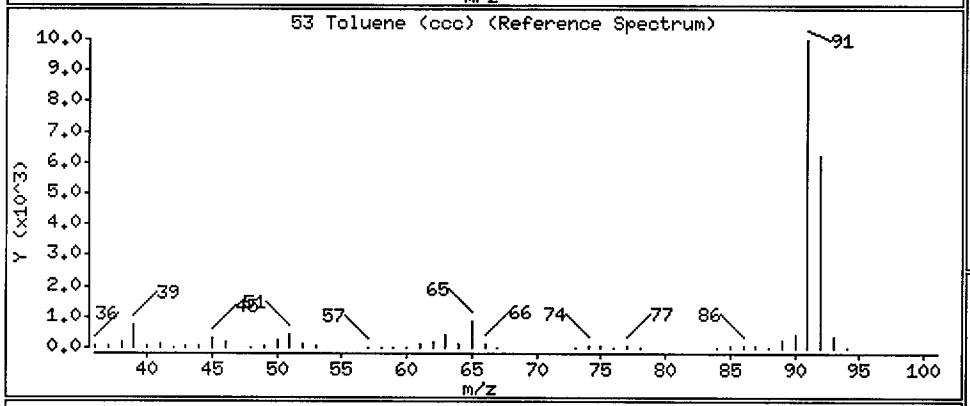
Column diameter: 0.18

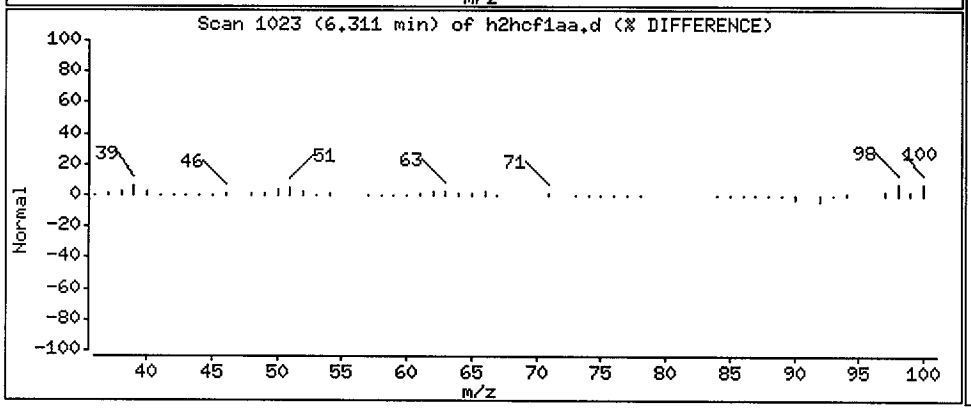
53 Toluene (ccc)

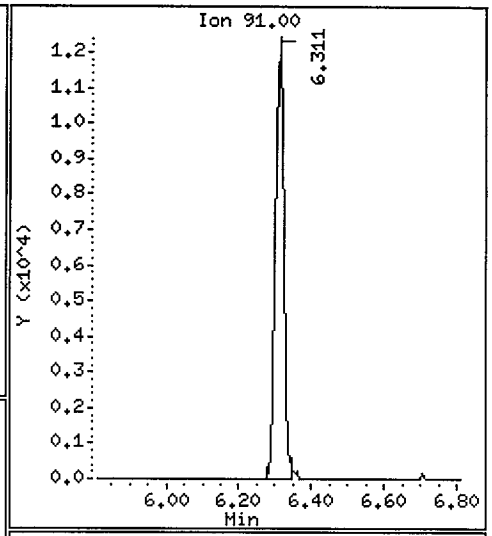
Concentration: 0.0039511 ug

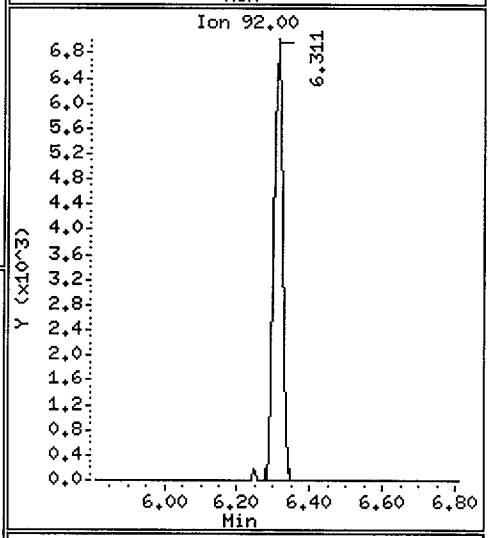


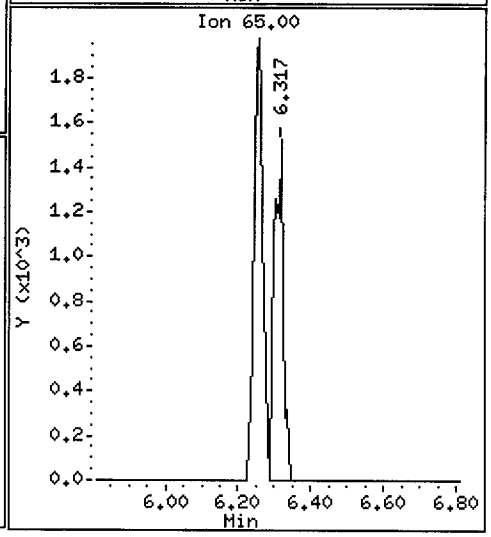












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

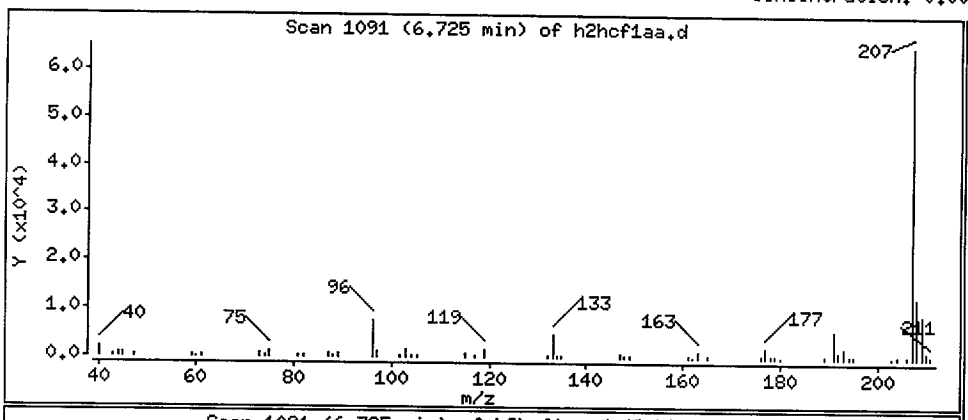
Operator: 22980

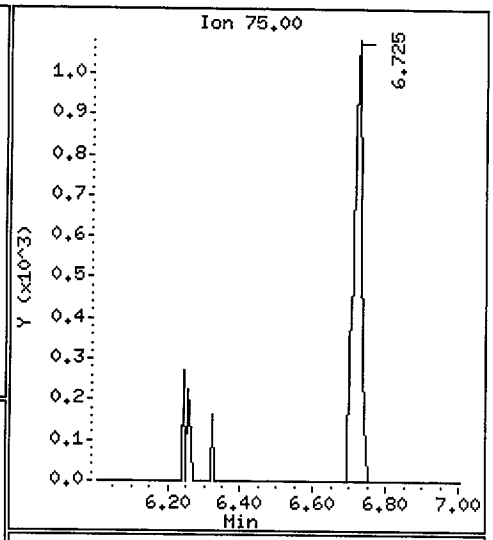
Column phase: J+W 624

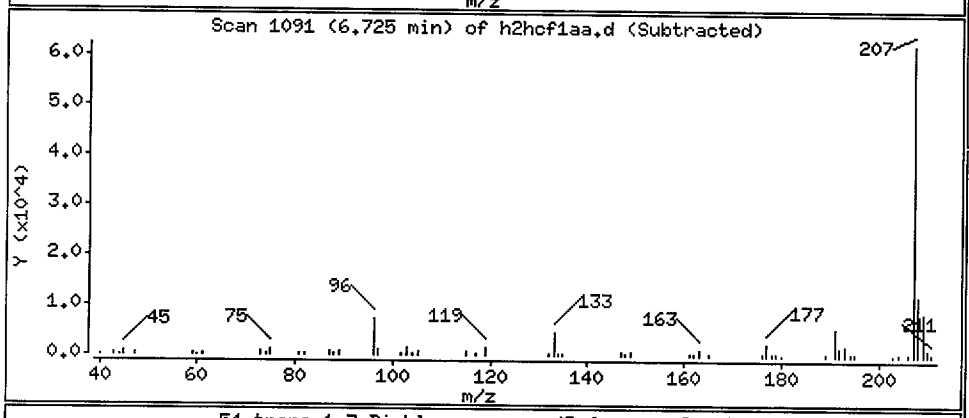
Column diameter: 0.18

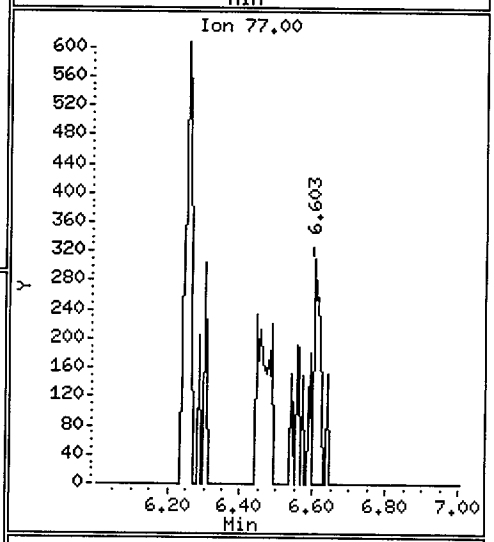
54 trans-1,3-Dichloropropene

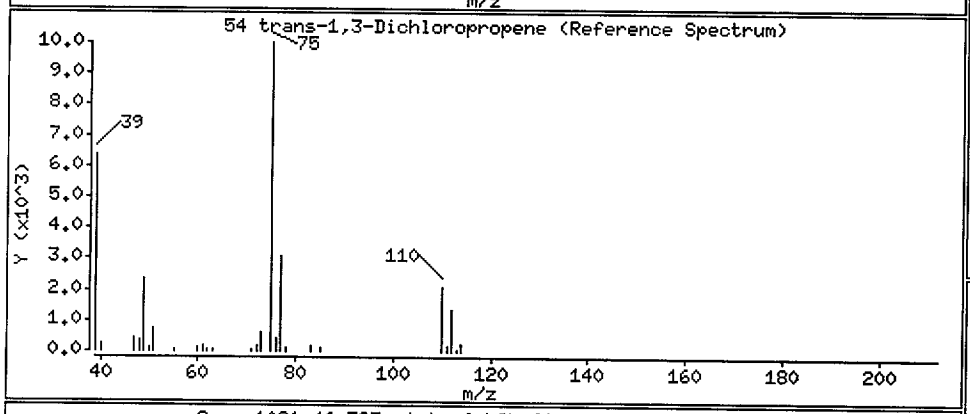
Concentration: 0.0020980 ug

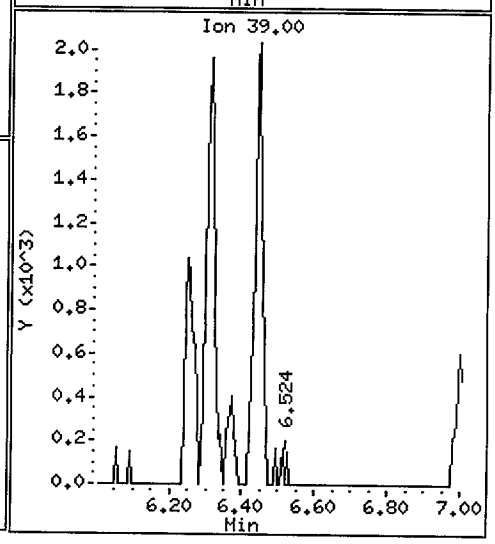


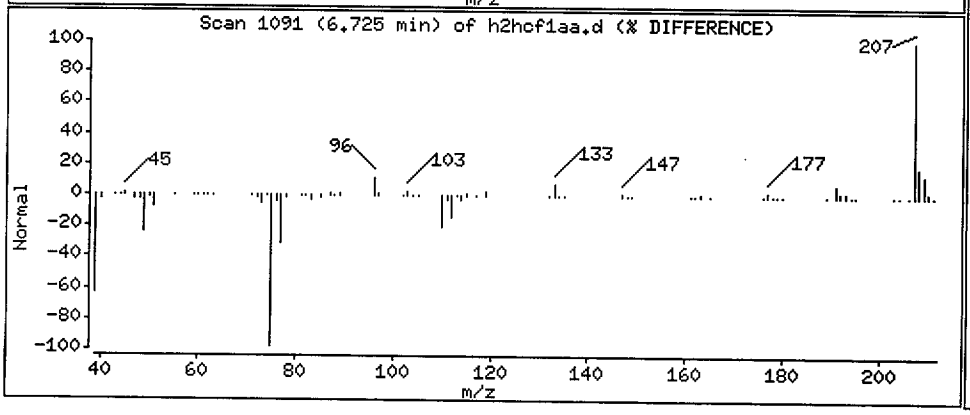












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

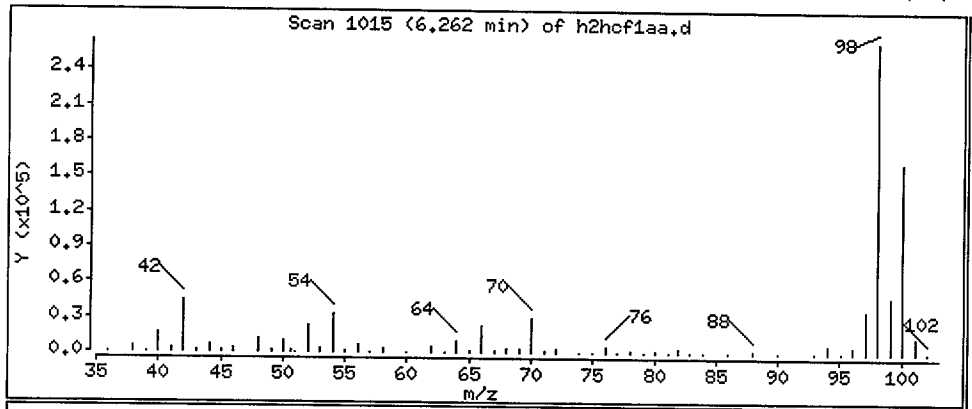
Operator: 22980

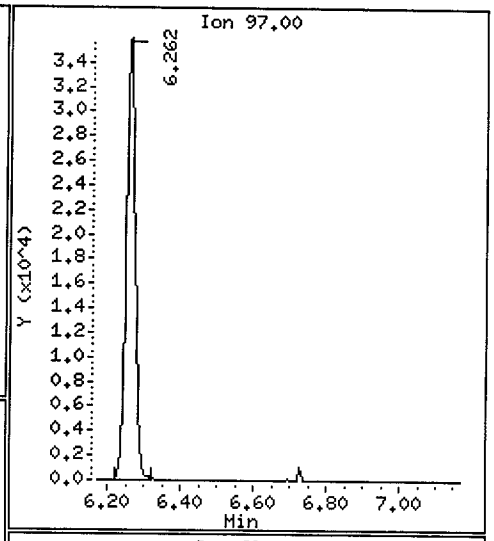
Column phase: J+W 624

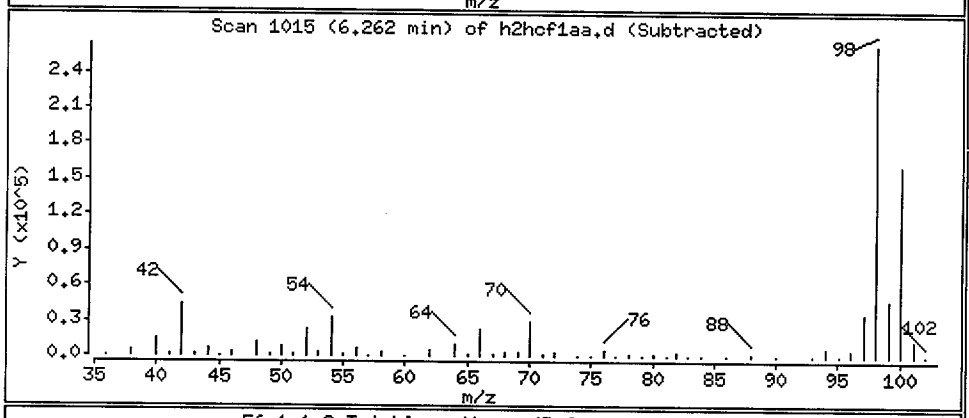
Column diameter: 0.18

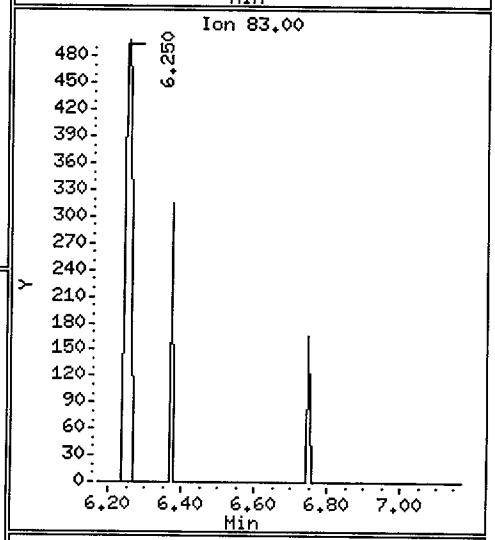
56 1,1,2-Trichloroethane

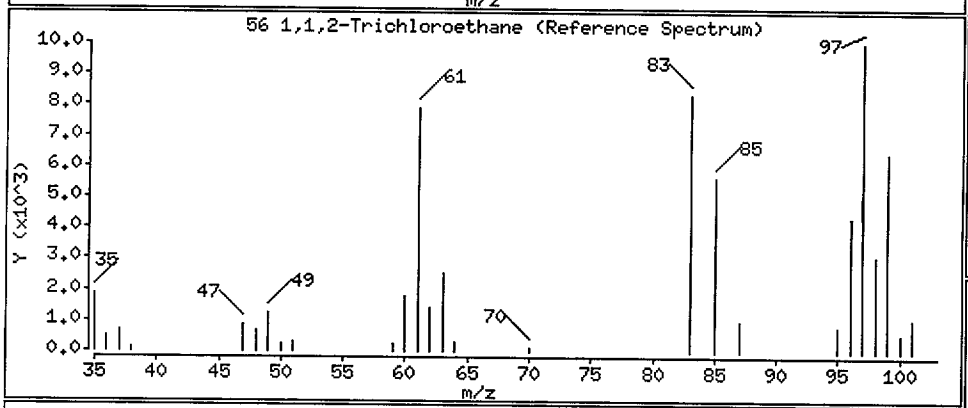
Concentration: 0.17017 ug

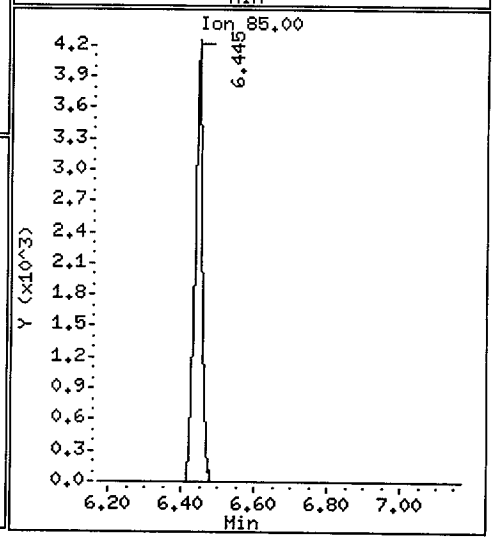


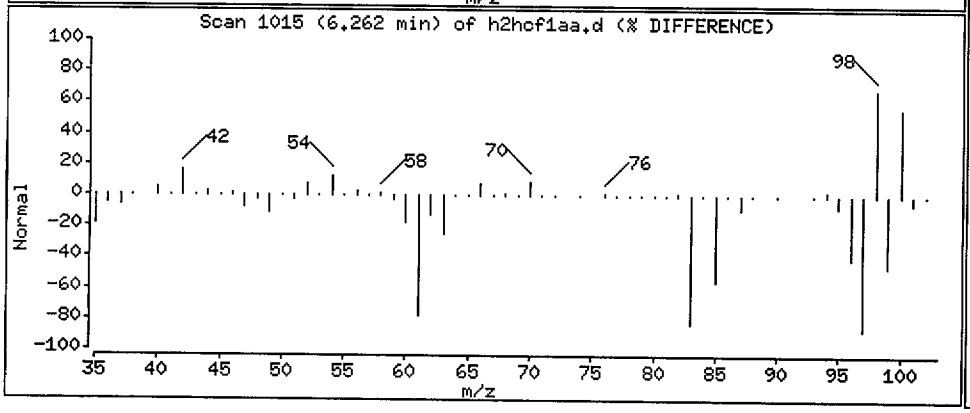












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

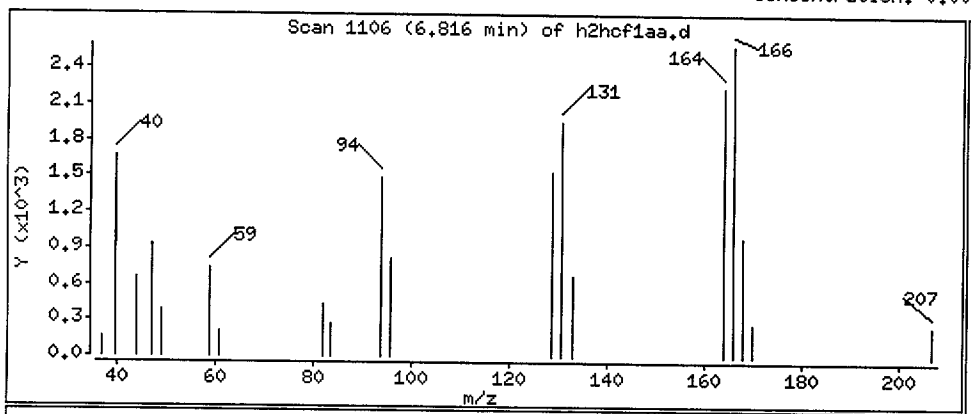
Operator: 22980

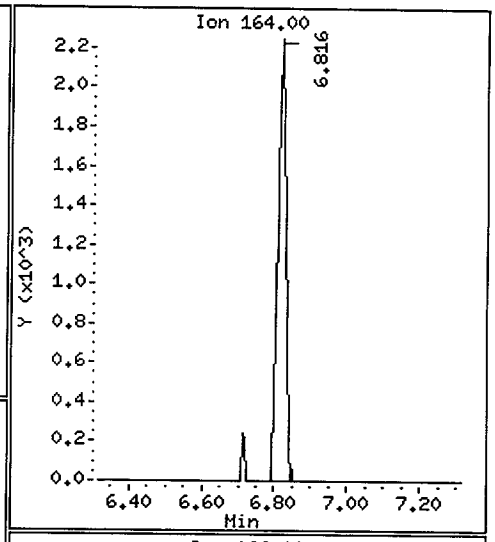
Column phase: J+W 624

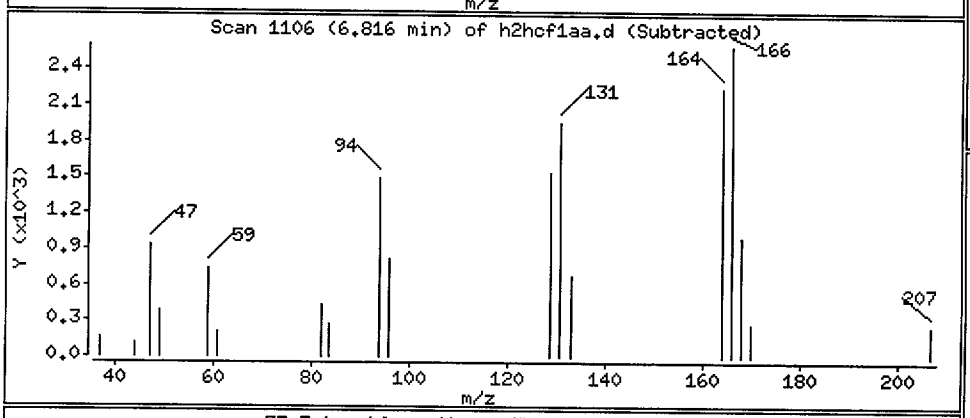
Column diameter: 0.18

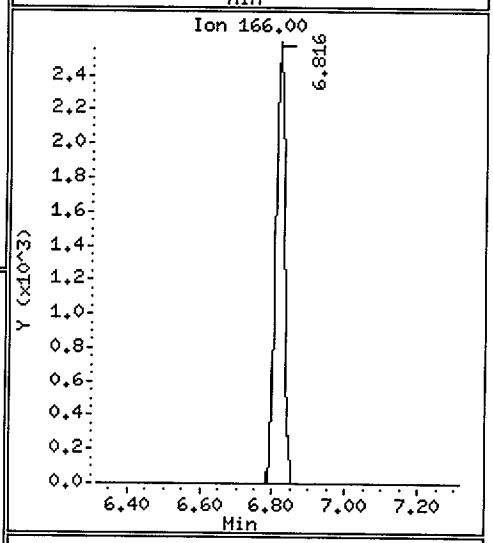
57 Tetrachloroethene

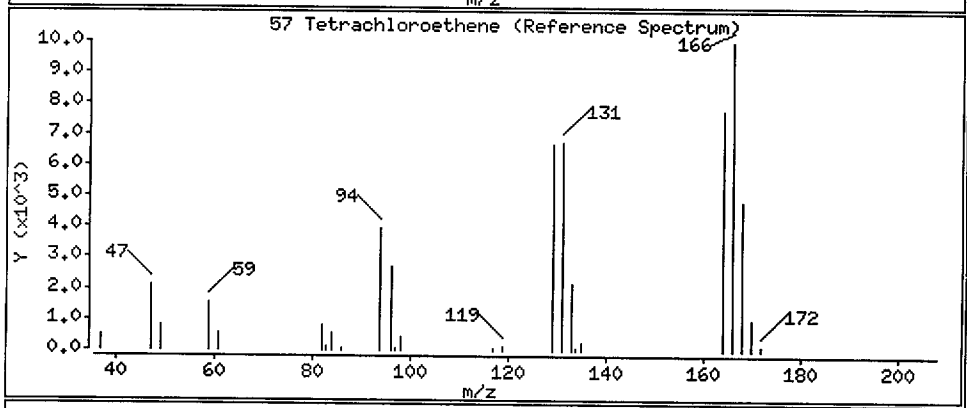
Concentration: 0.0031774 ug

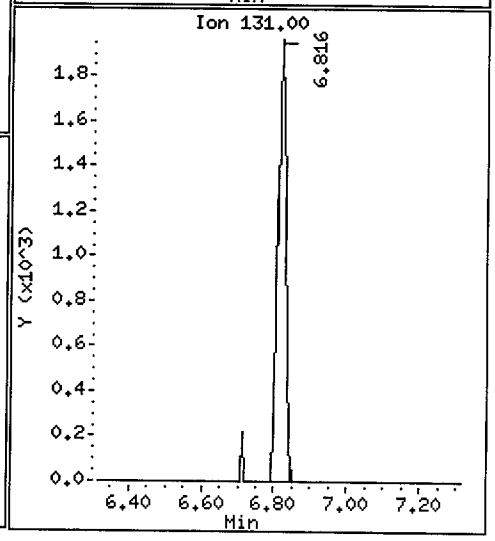


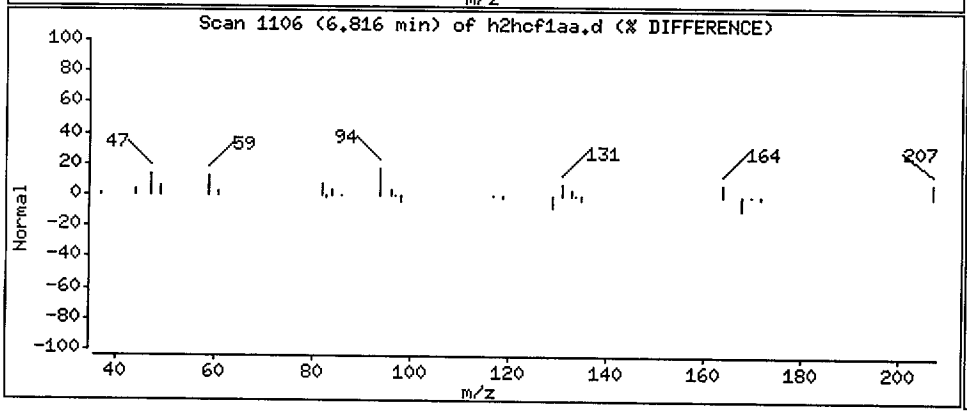












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

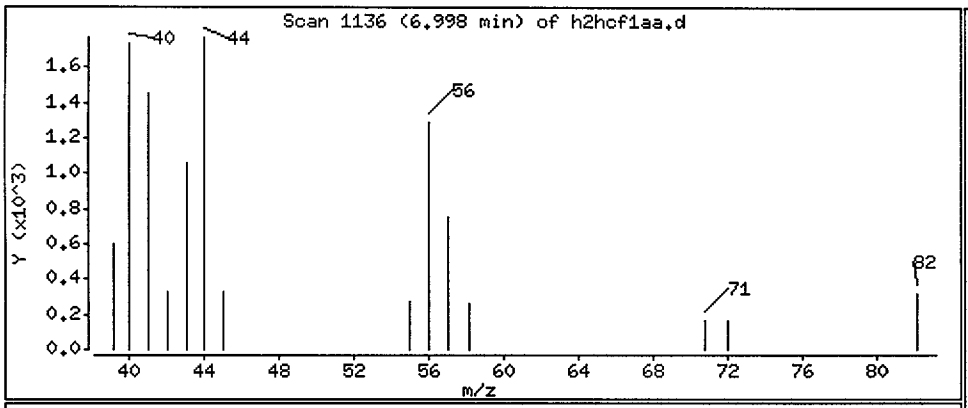
Operator: 22980

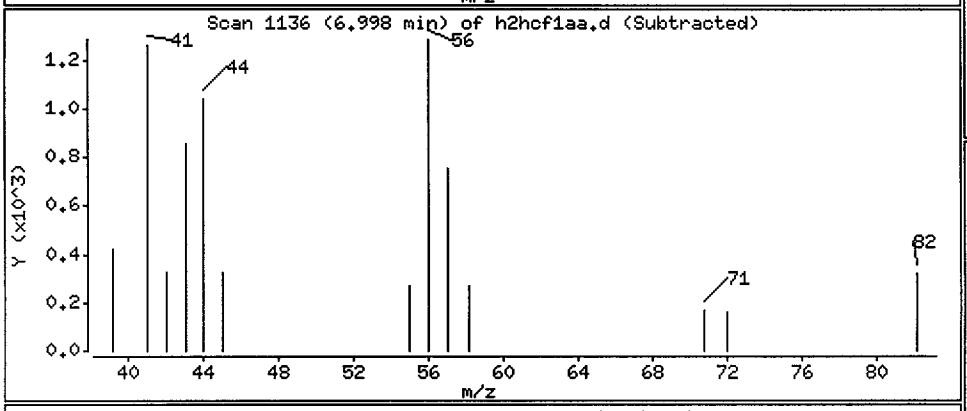
Column phase: J+W 624

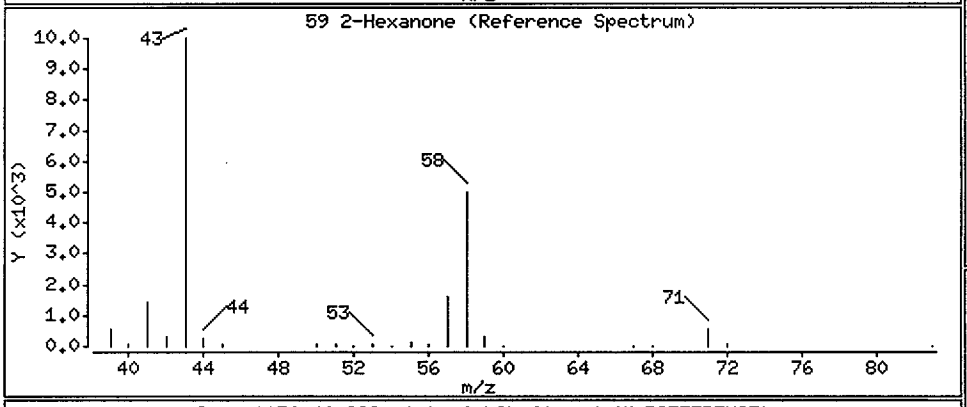
Column diameter: 0.18

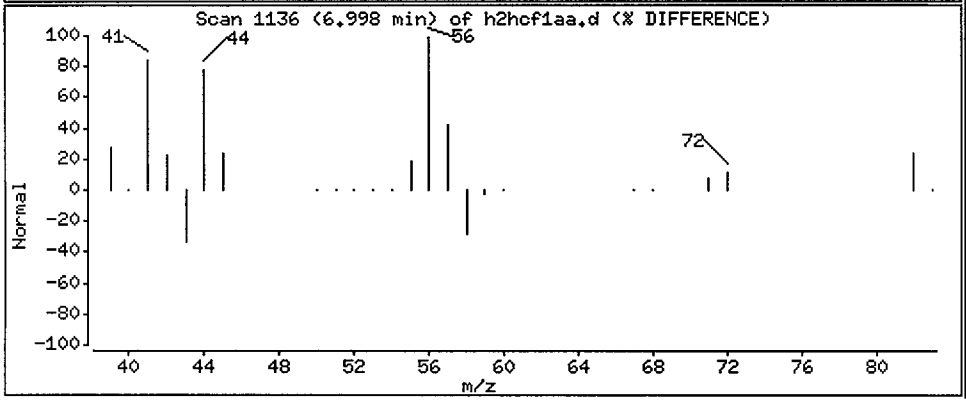
59 2-Hexanone

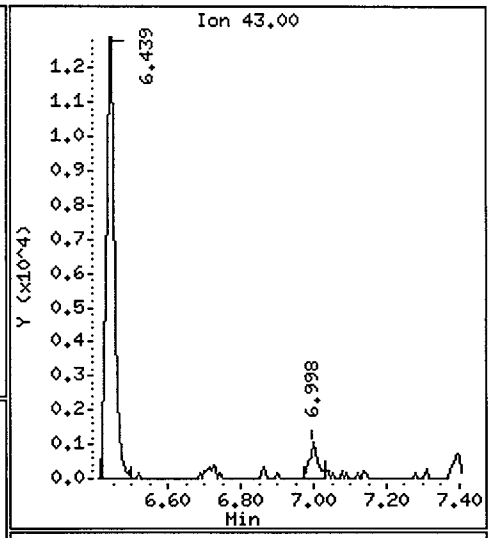
Concentration: 0.010075 ug

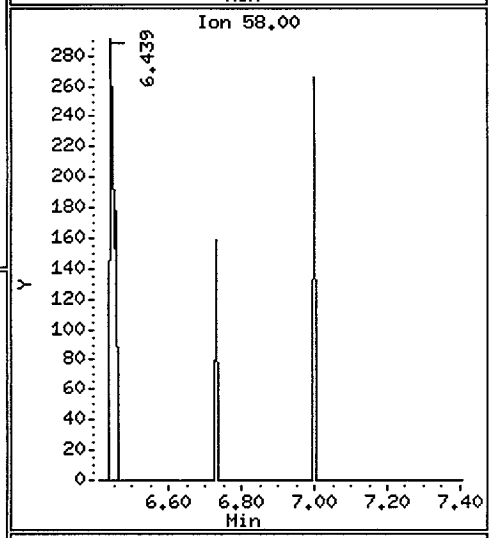


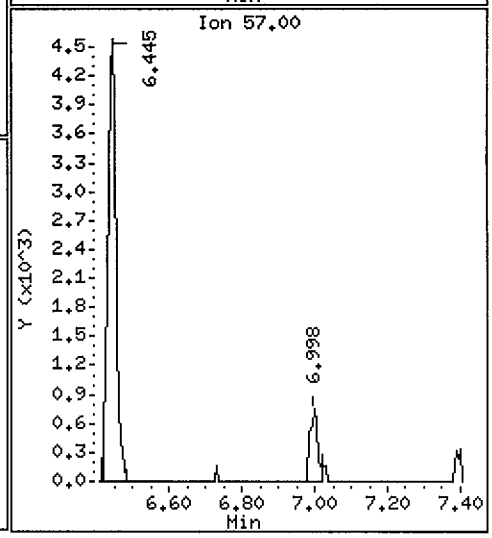












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

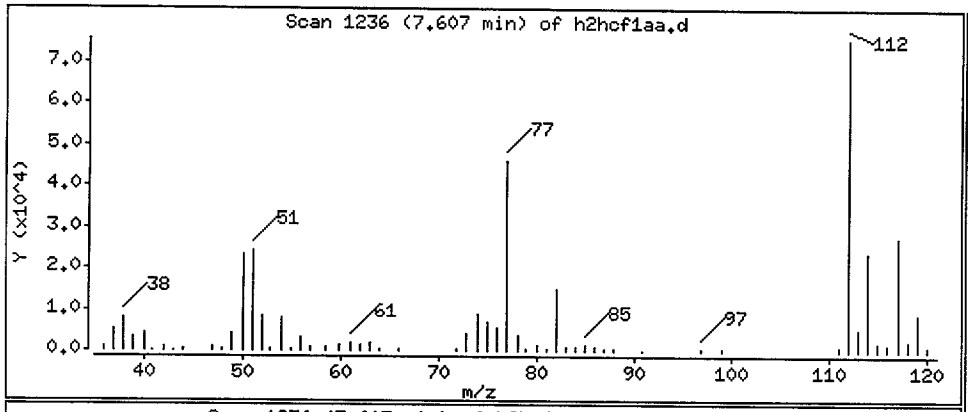
Operator: 22980

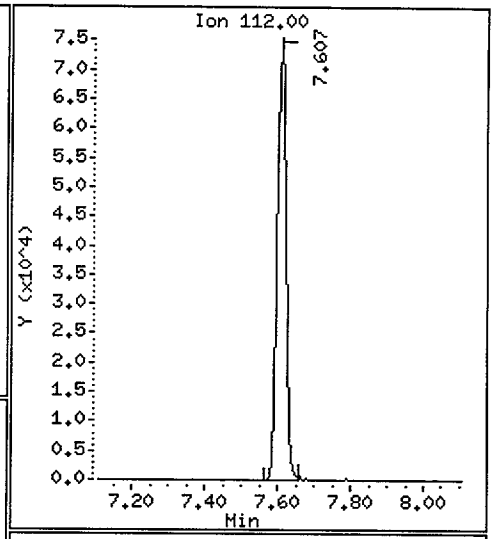
Column phase: J+W 624

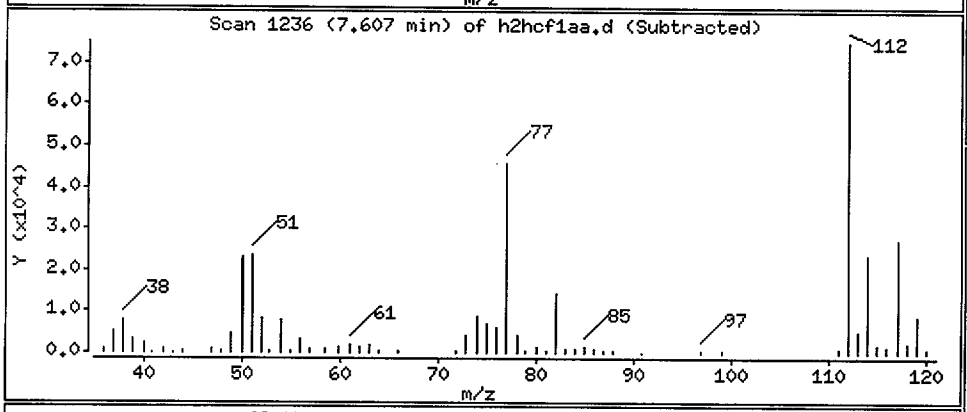
Column diameter: 0.18

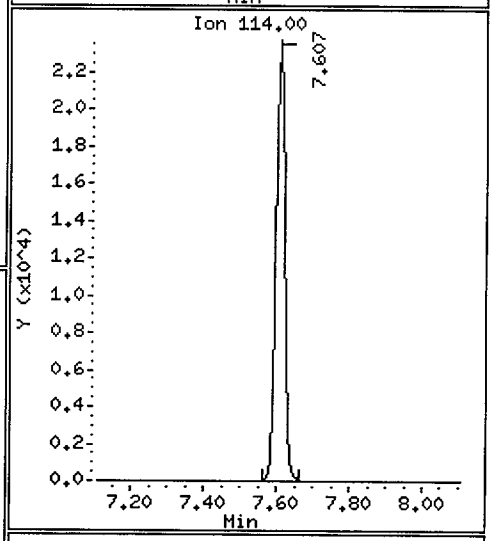
62 Chlorobenzene (spcc)

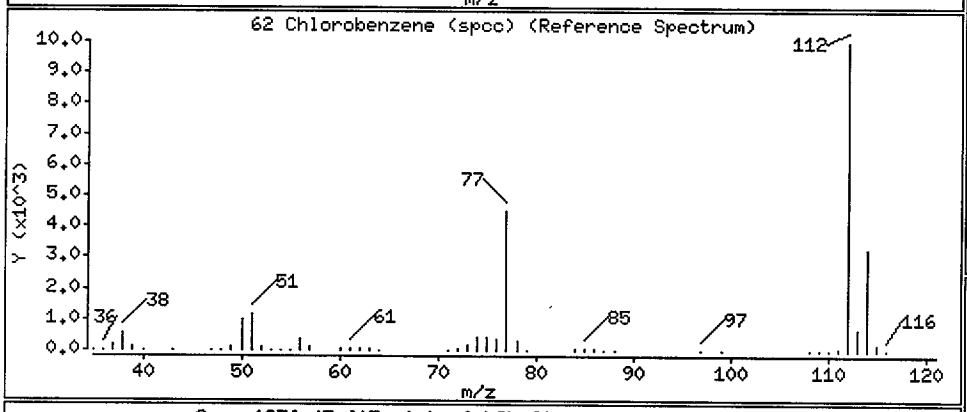
Concentration: 0.049225 ug

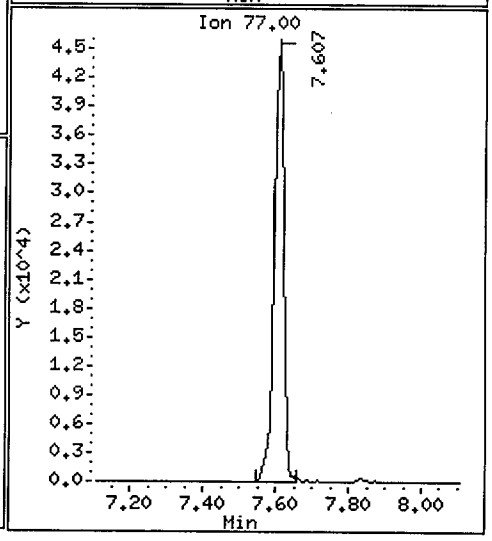


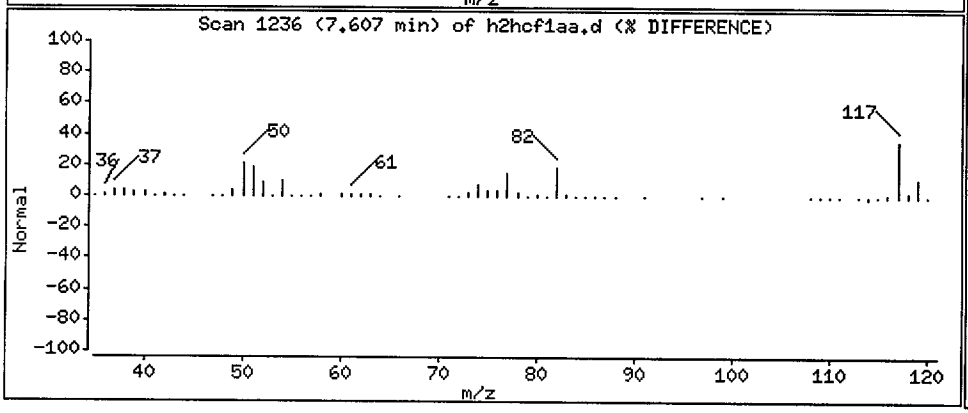












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

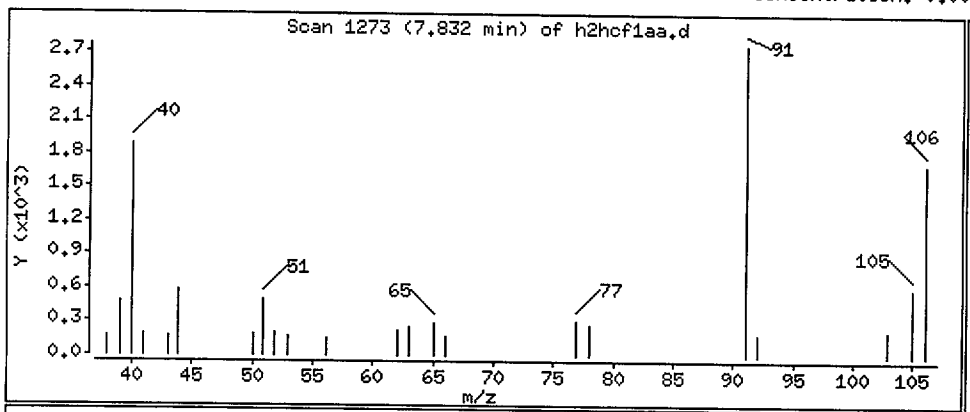
Operator: 22980

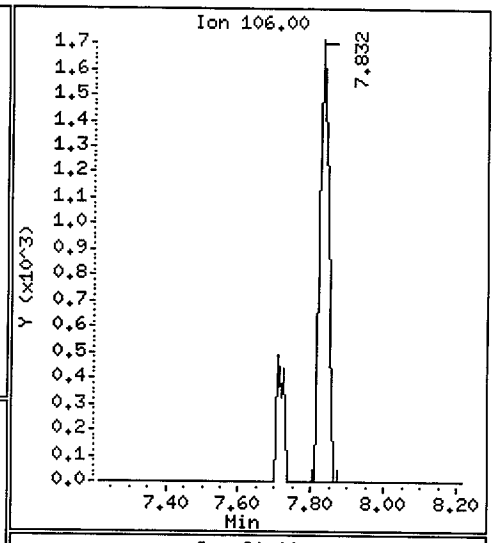
Column phase: J+W 624

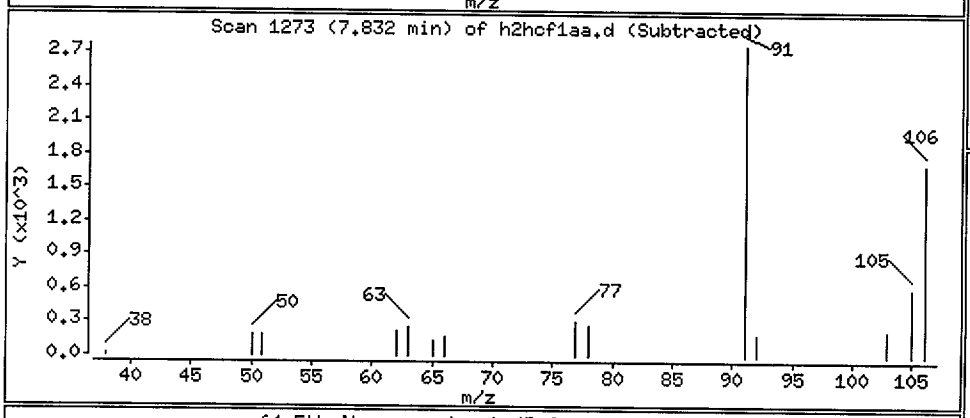
Column diameter: 0.18

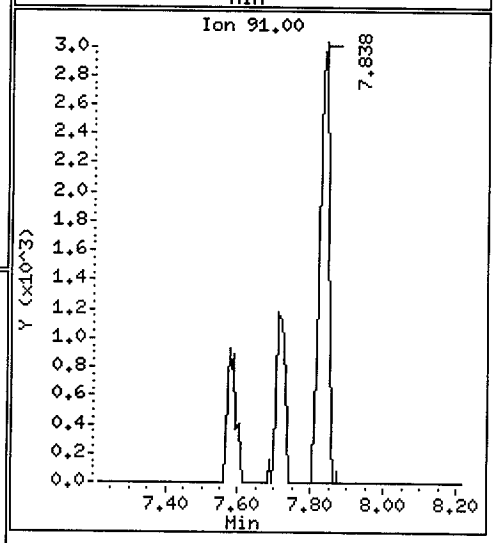
64 Ethylbenzene (ccc)

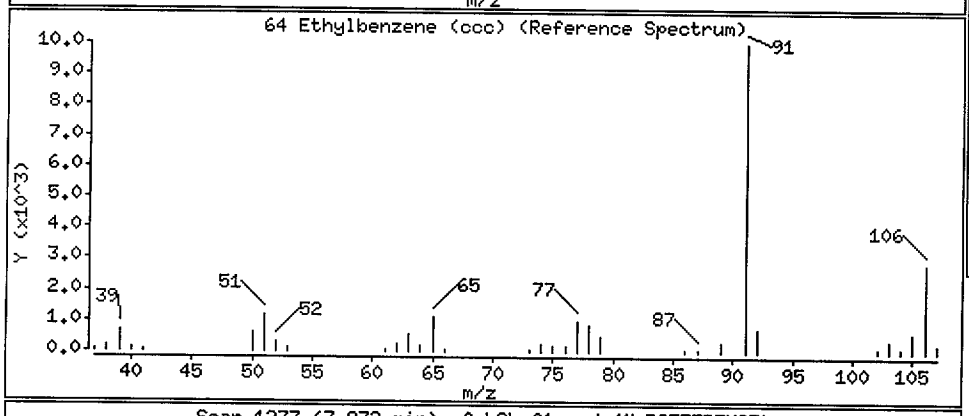
Concentration: 0.0016418 ug

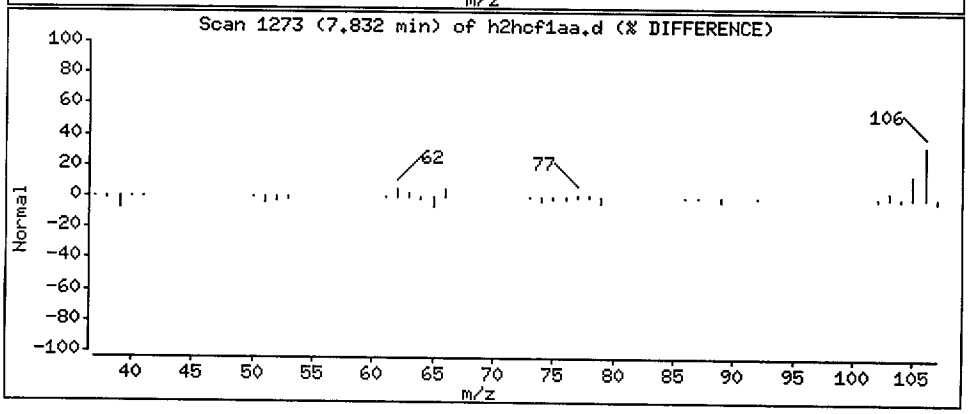












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

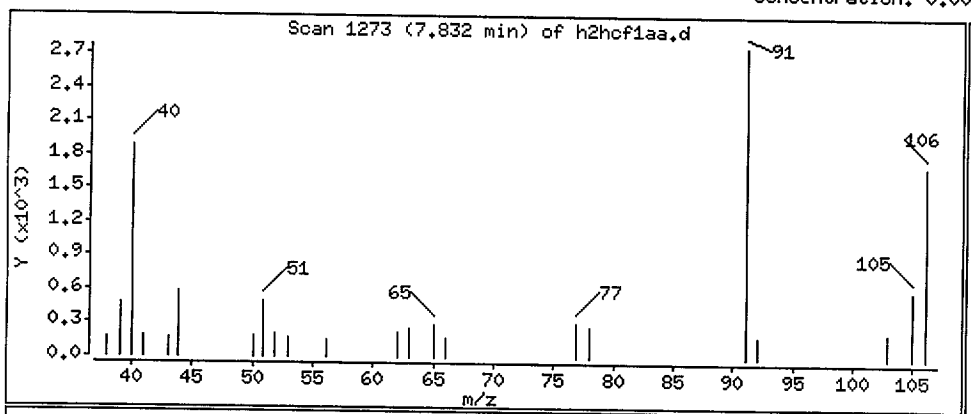
Operator: 22980

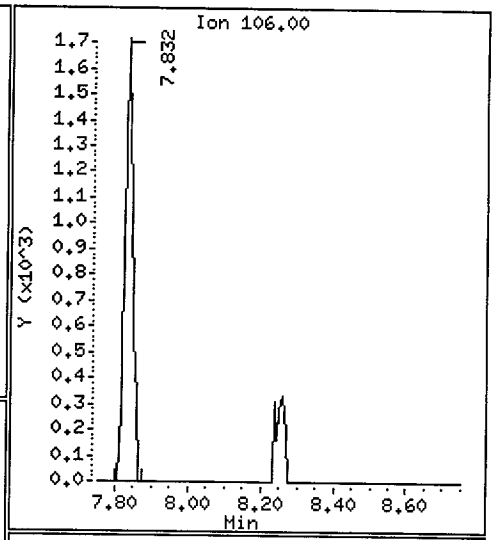
Column phase: J+W 624

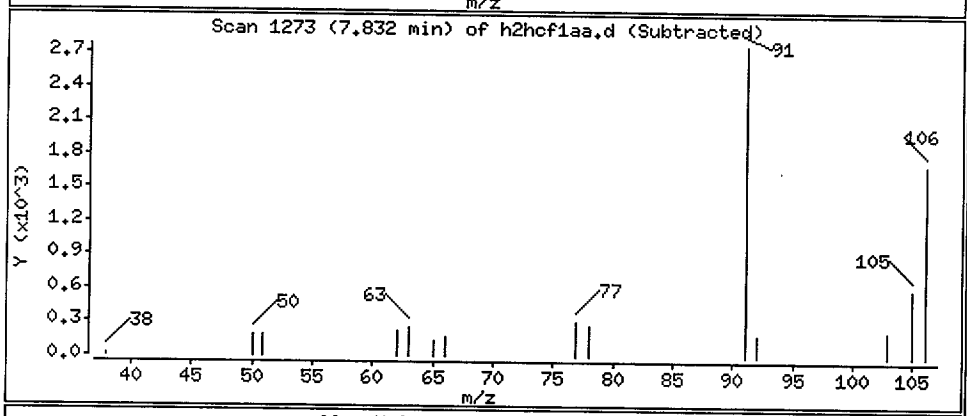
Column diameter: 0.18

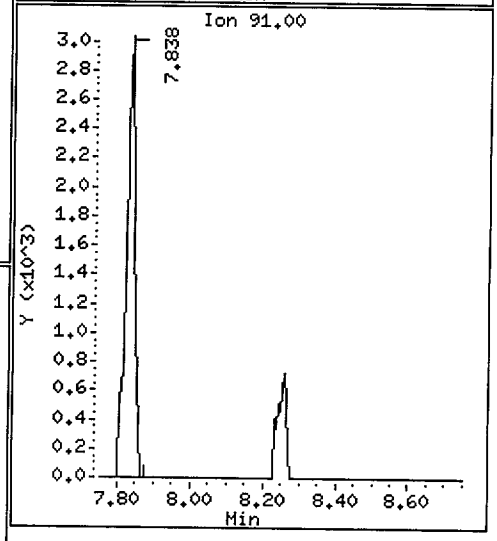
66 o-Xylene

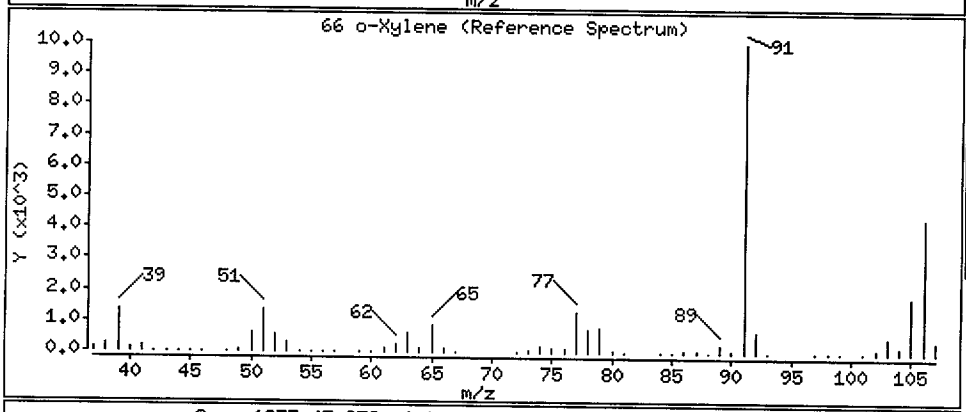
Concentration: 0.0016341 ug

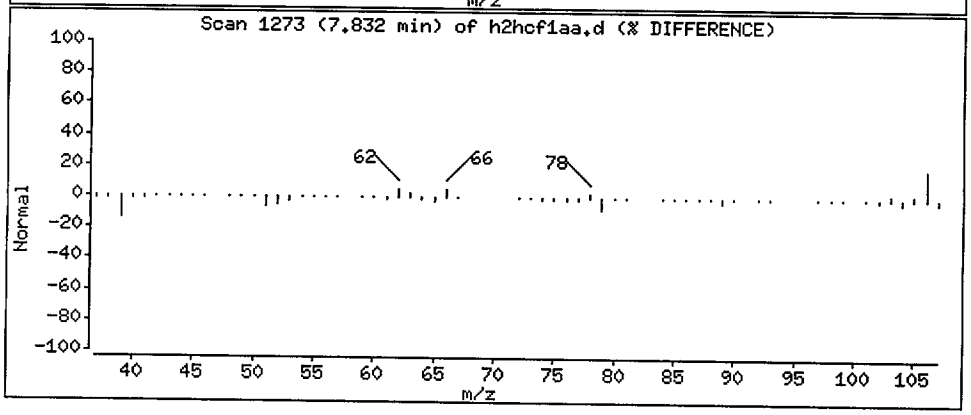












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

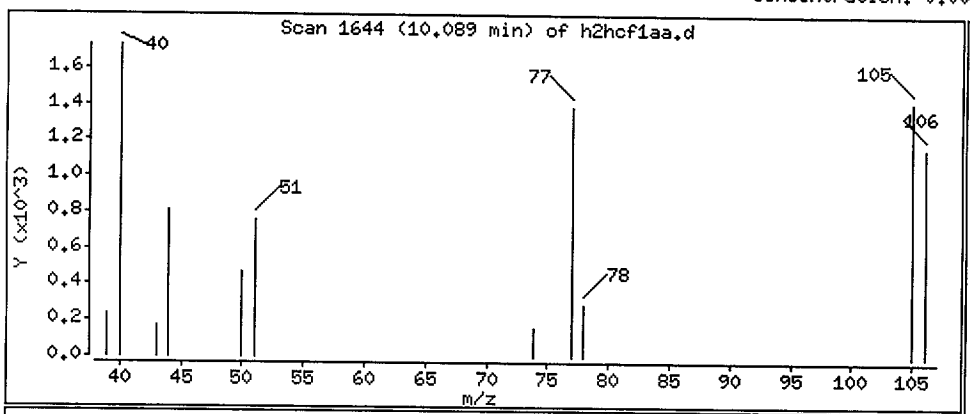
Operator: 22980

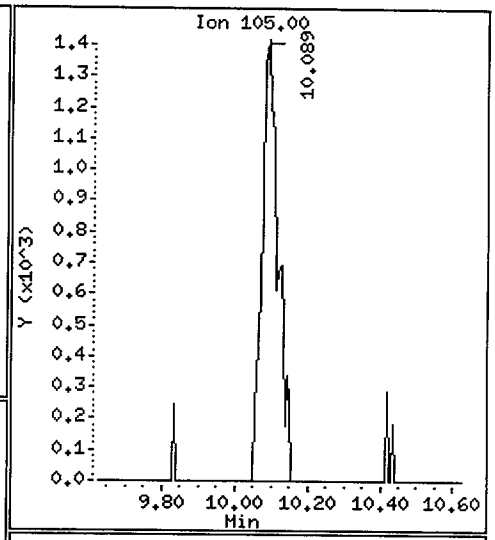
Column phase: J+W 624

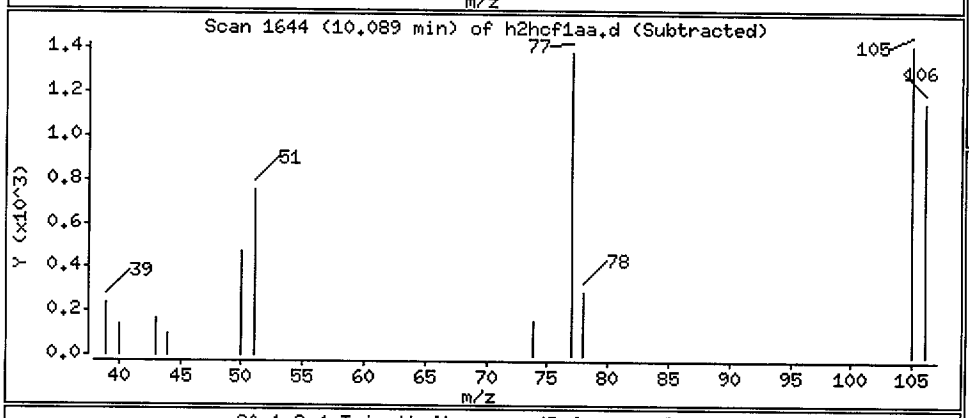
Column diameter: 0.18

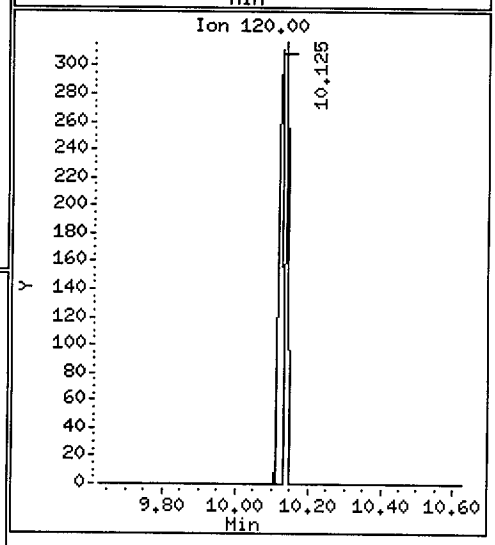
80 1,2,4-Trimethylbenzene

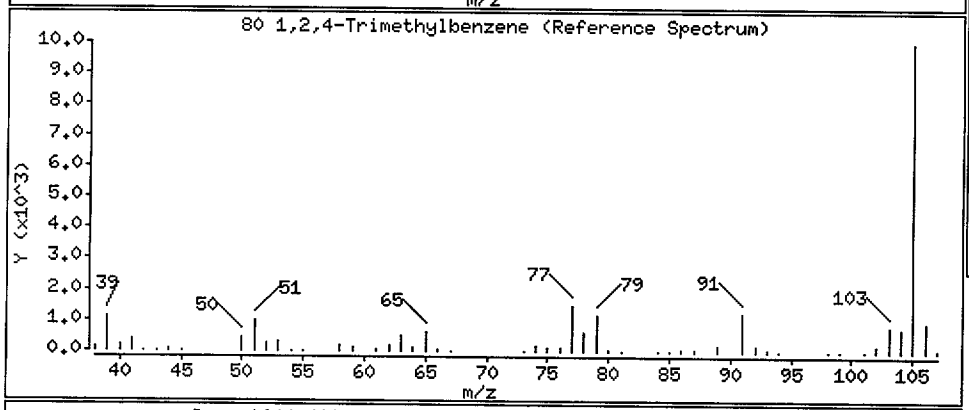
Concentration: 0.0014550 ug

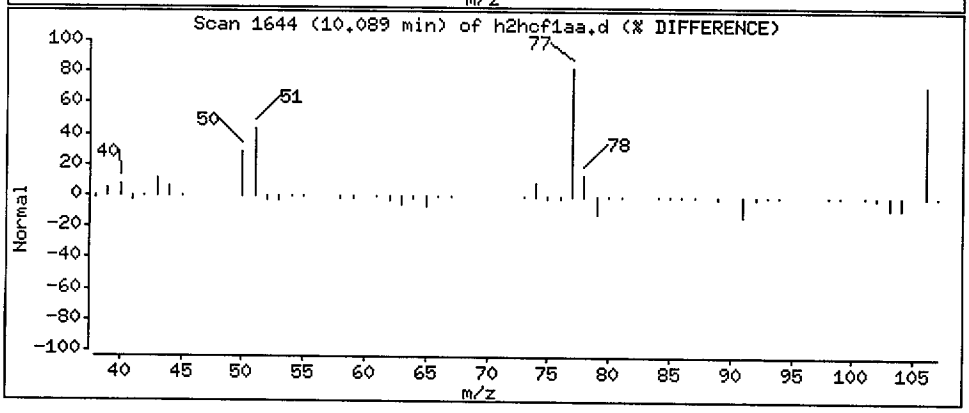












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

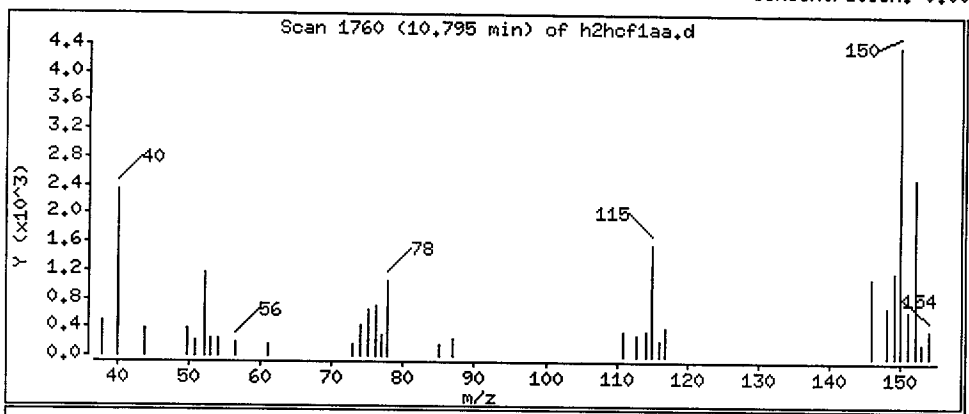
Operator: 22980

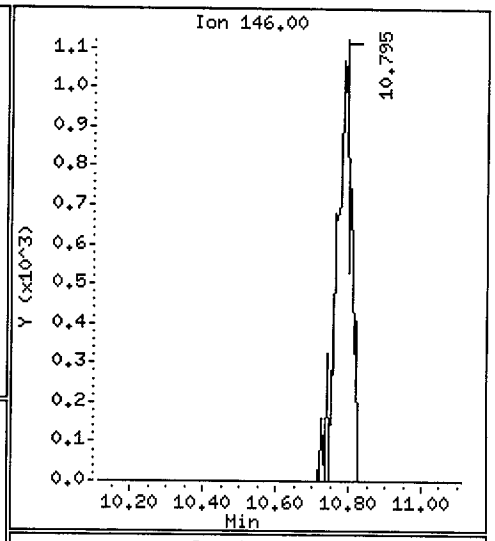
Column phase: J+W 624

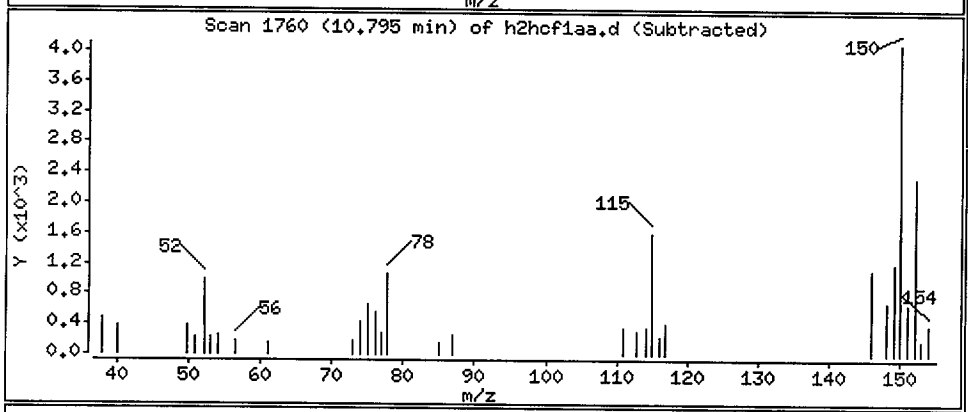
Column diameter: 0.18

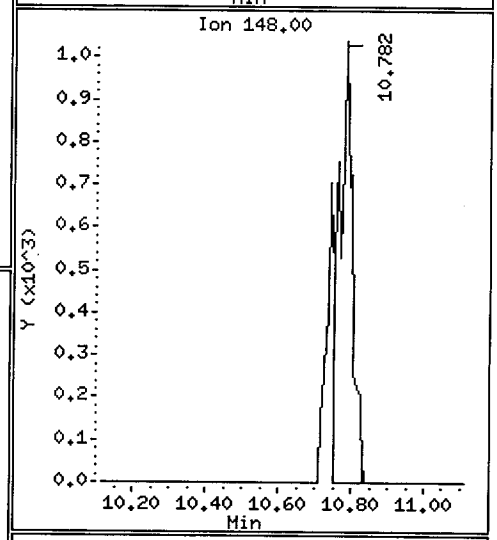
82 1,3-Dichlorobenzene

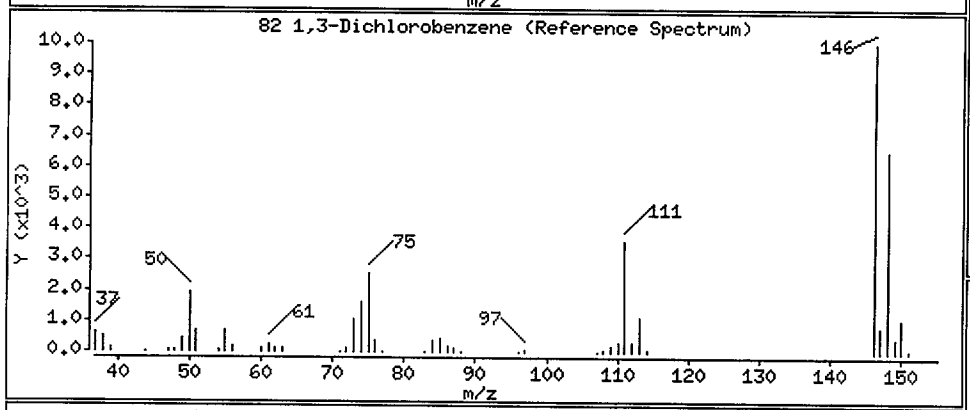
Concentration: 0.0019283 ug

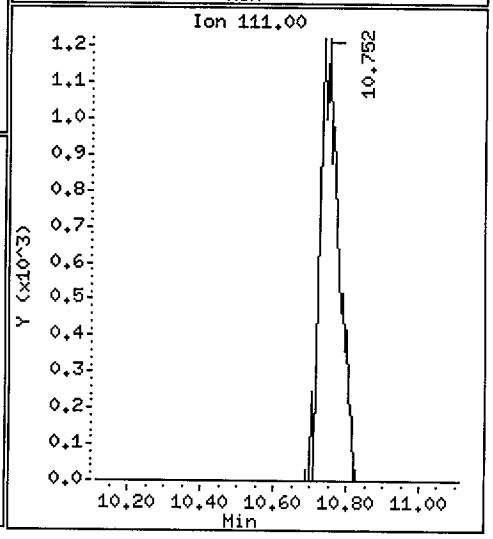


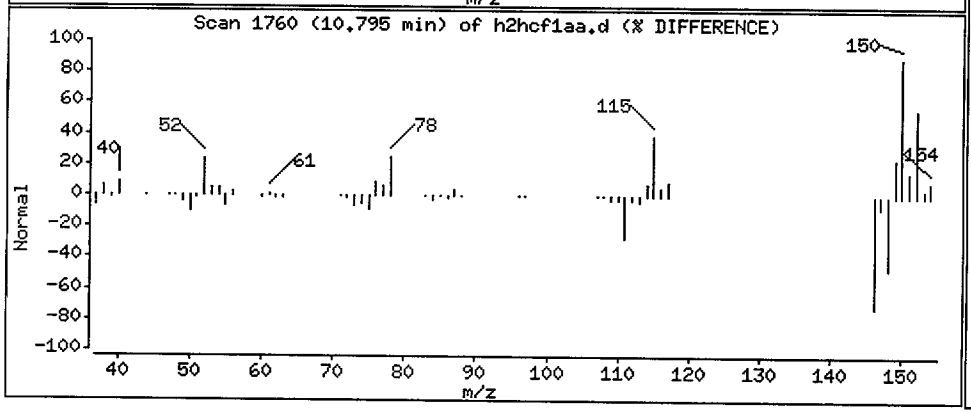












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

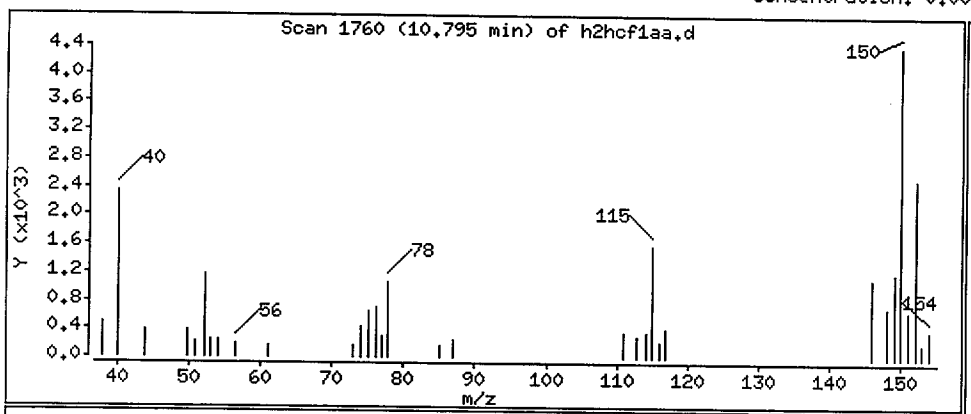
Operator: 22980

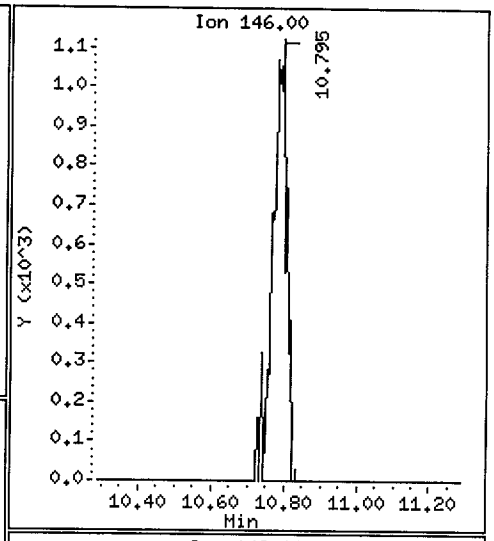
Column phase: J+W 624

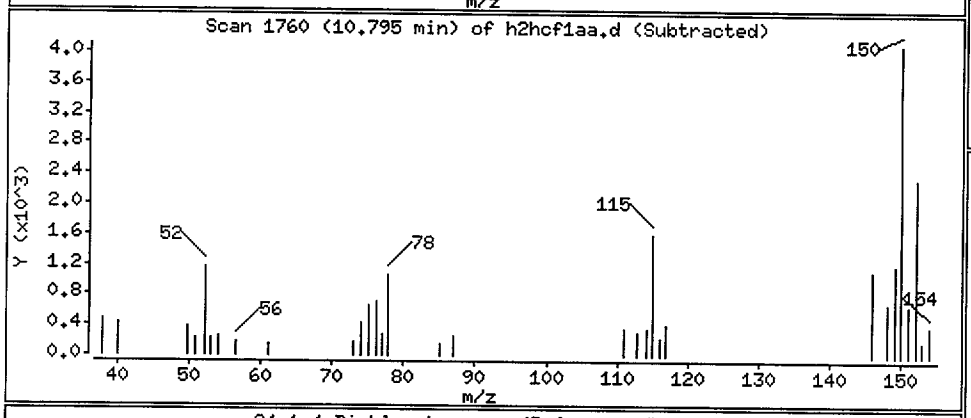
Column diameter: 0.18

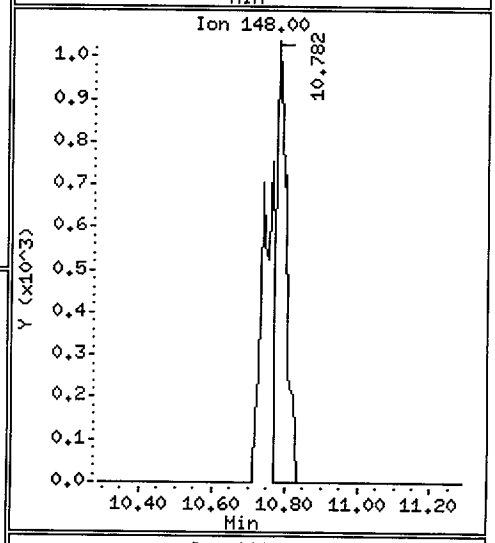
84 1,4-Dichlorobenzene

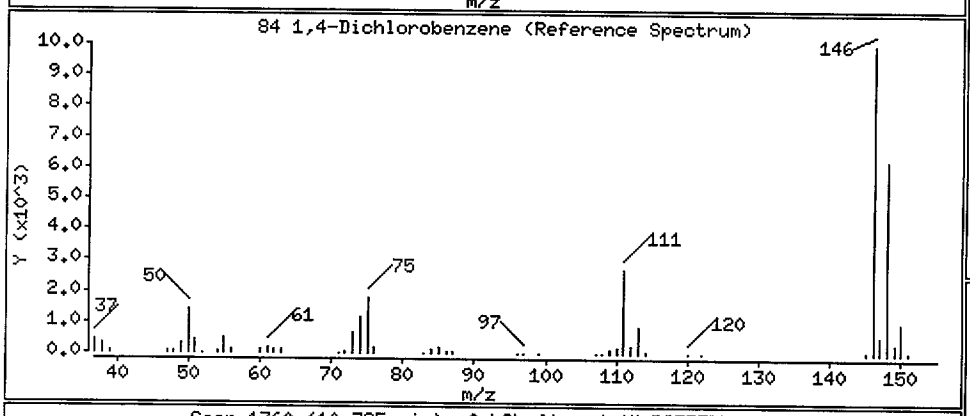
Concentration: 0.0020043 ug

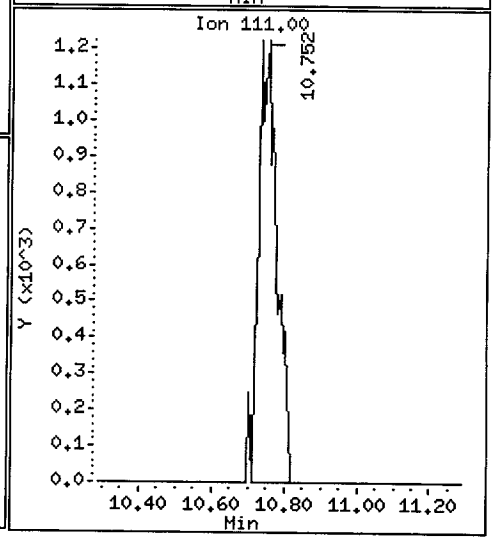


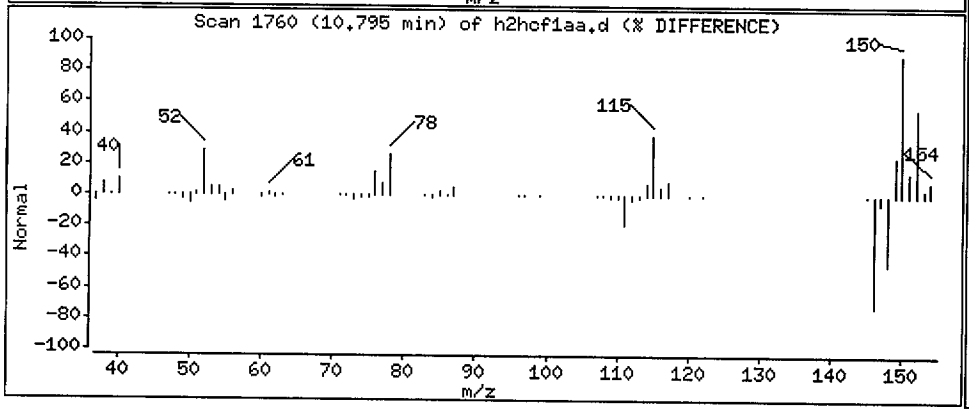












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCF1AA,1,0,,,

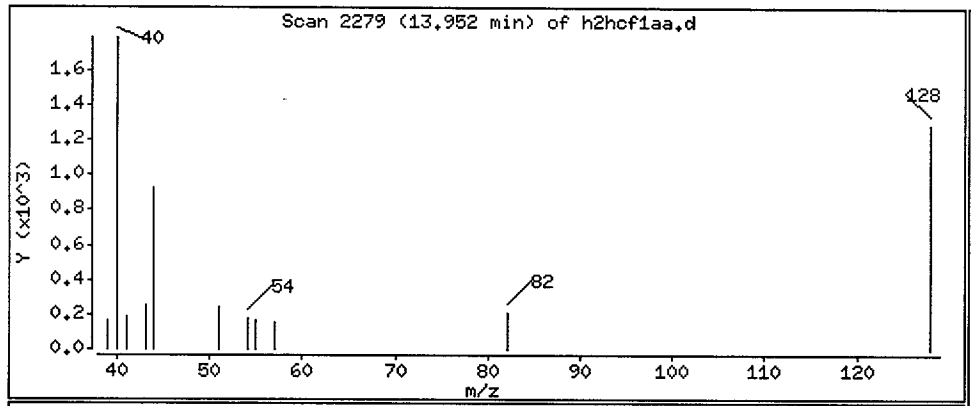
Operator: 22980

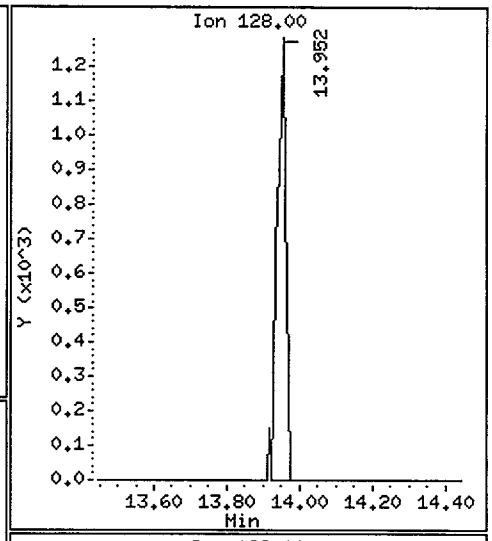
Column phase: J+W 624

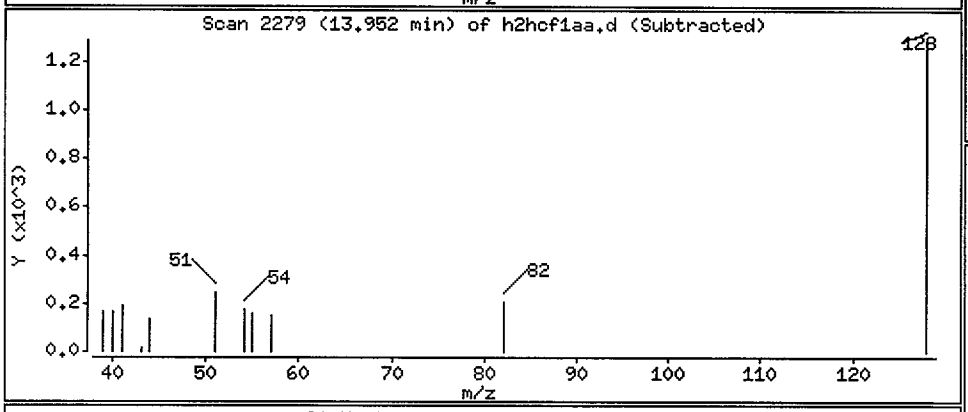
Column diameter: 0.18

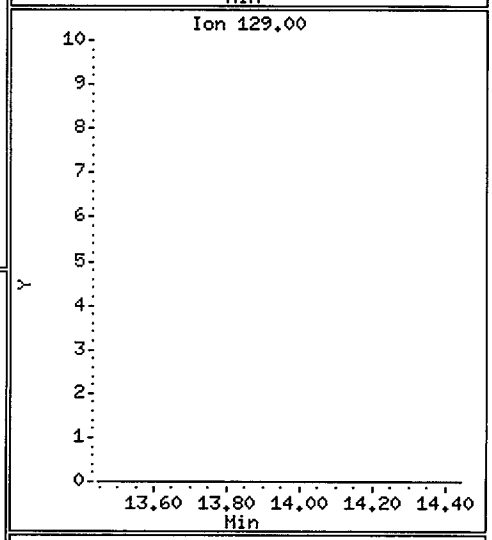
90 Napthalene

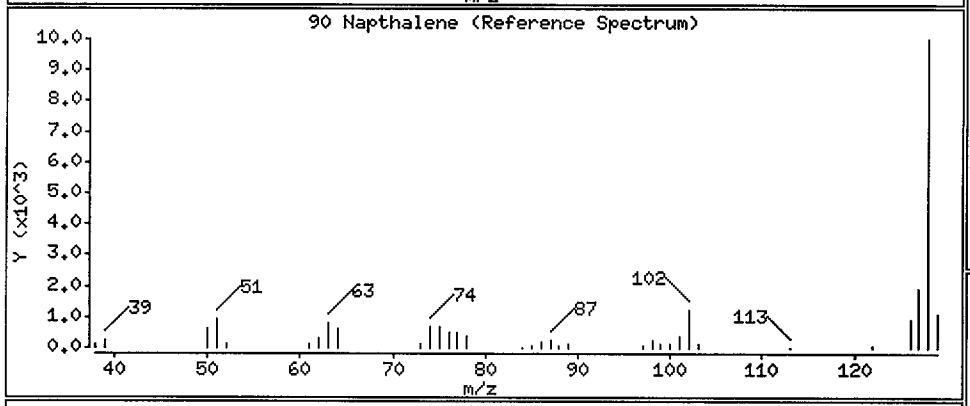
Concentration: 0.0051903 ug

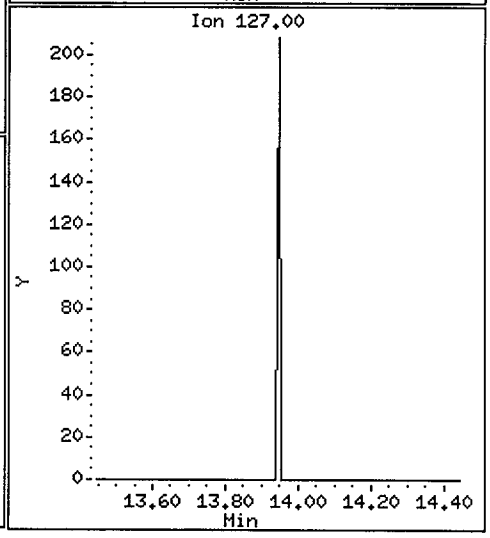


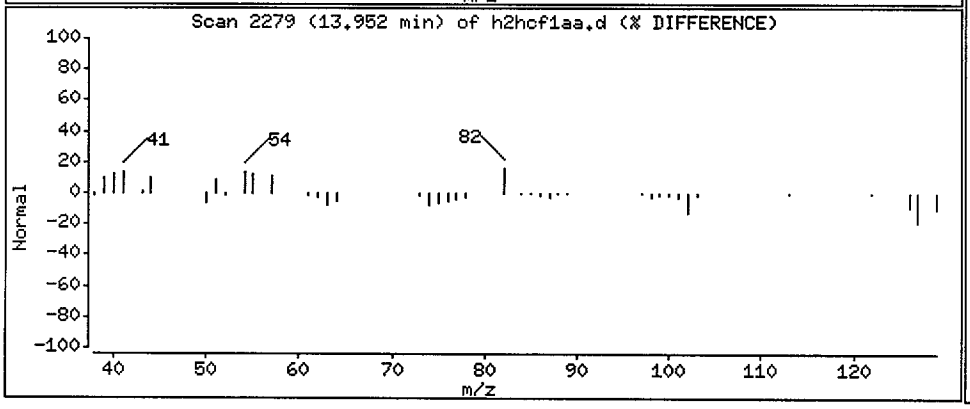












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Report Date: 19-Apr-2006 07:35

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d
Lab Smp Id: H2HCF1AA Client Smp ID: G-3090-R3-VOST PAIR
Inj Date : 07-APR-2006 16:37
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCF1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 07:31 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	7.582	1345988	10.000
* 3 1,4 Dichlorobenzene-d4	10.740	556411	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.719	135303	1.00523184	0.025131	91	NIST02.1	71175	2
Nonane				CAS #: 111-84-2			
7.881	141773	1.05330062	0.026332	91	NIST02.1	12253	2
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.237	109856	1.97436787	0.049359	91	NIST02.1	115617	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

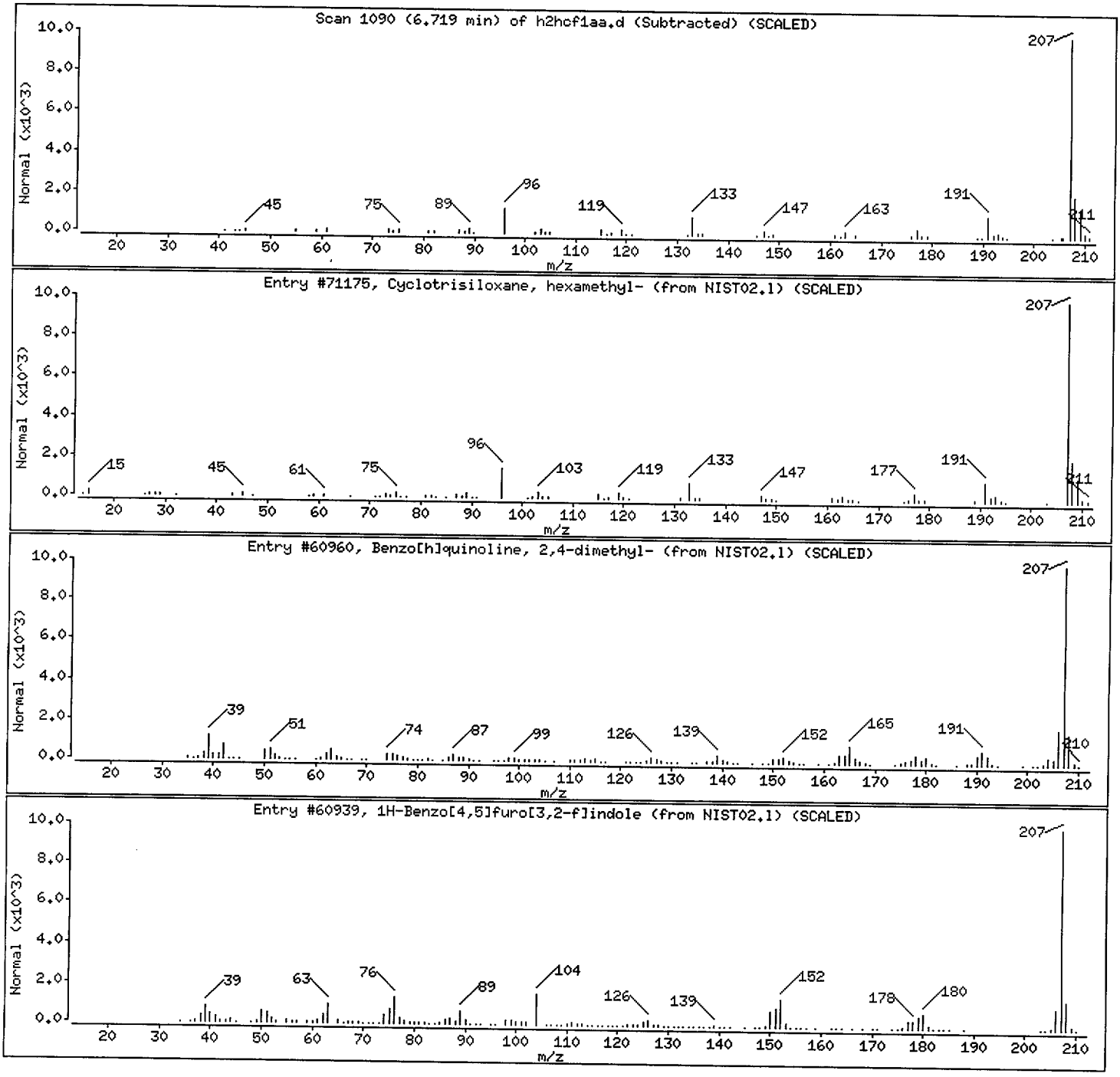
Sample Info: H2HCF1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.1	71175	91	C6H18O3Si3	222
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.1	60960	39	C15H13N	207
1H-Benzo[4,5]furo[3,2-f]indole	242-97-7	NIST02.1	60939	9	C14H9NO	207



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

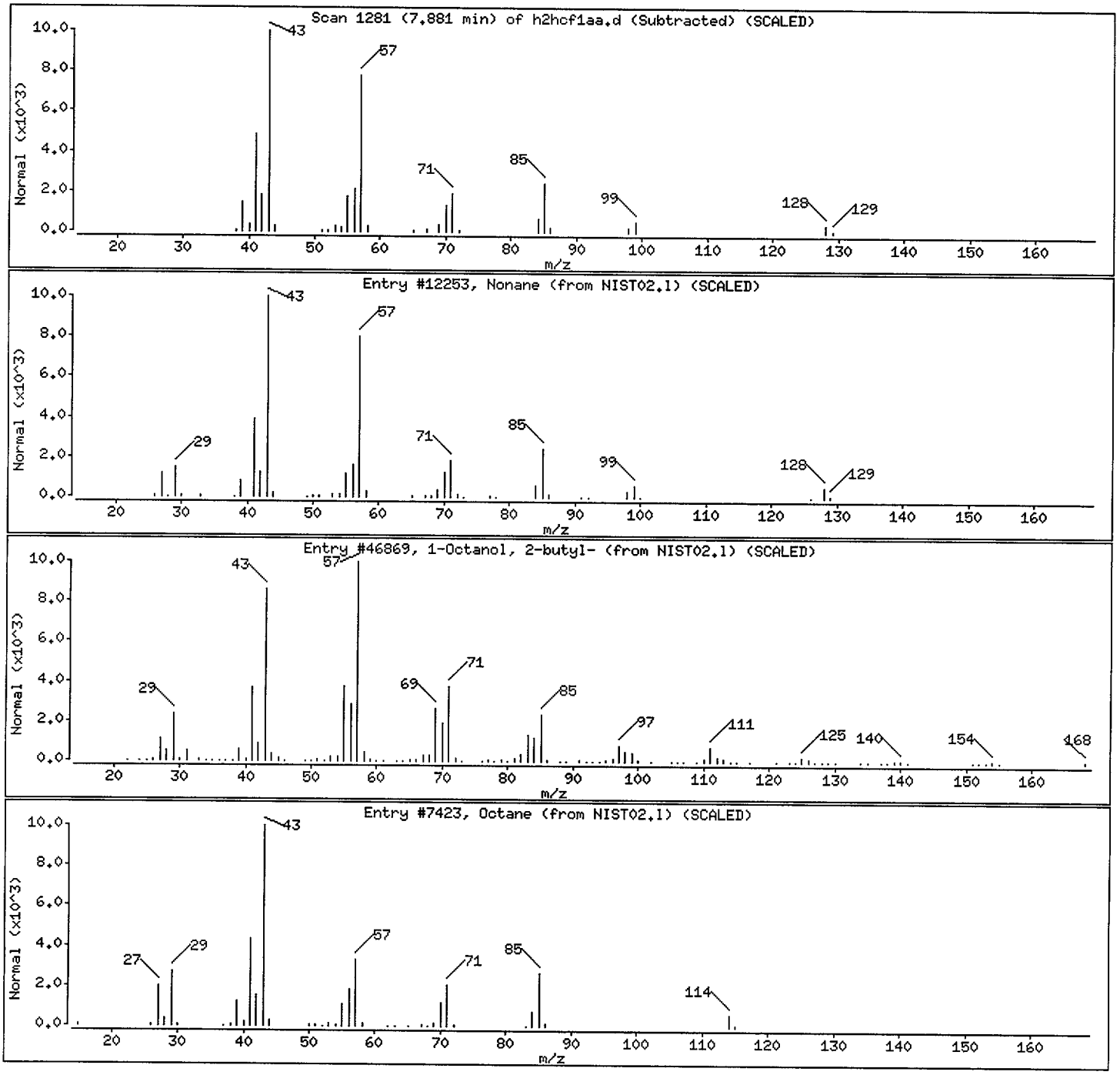
Sample Info: H2HCF1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NIST02.1	12253	91	C9H20	128
1-Octanol, 2-butyl-	3913-02-8	NIST02.1	46869	72	C12H26O	186
Octane	111-65-9	NIST02.1	7423	64	C8H18	114



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcf1aa.d

Date : 07-APR-2006 16:37

Client ID: G-3090-R3-VOST PAIR

Instrument: mx.i

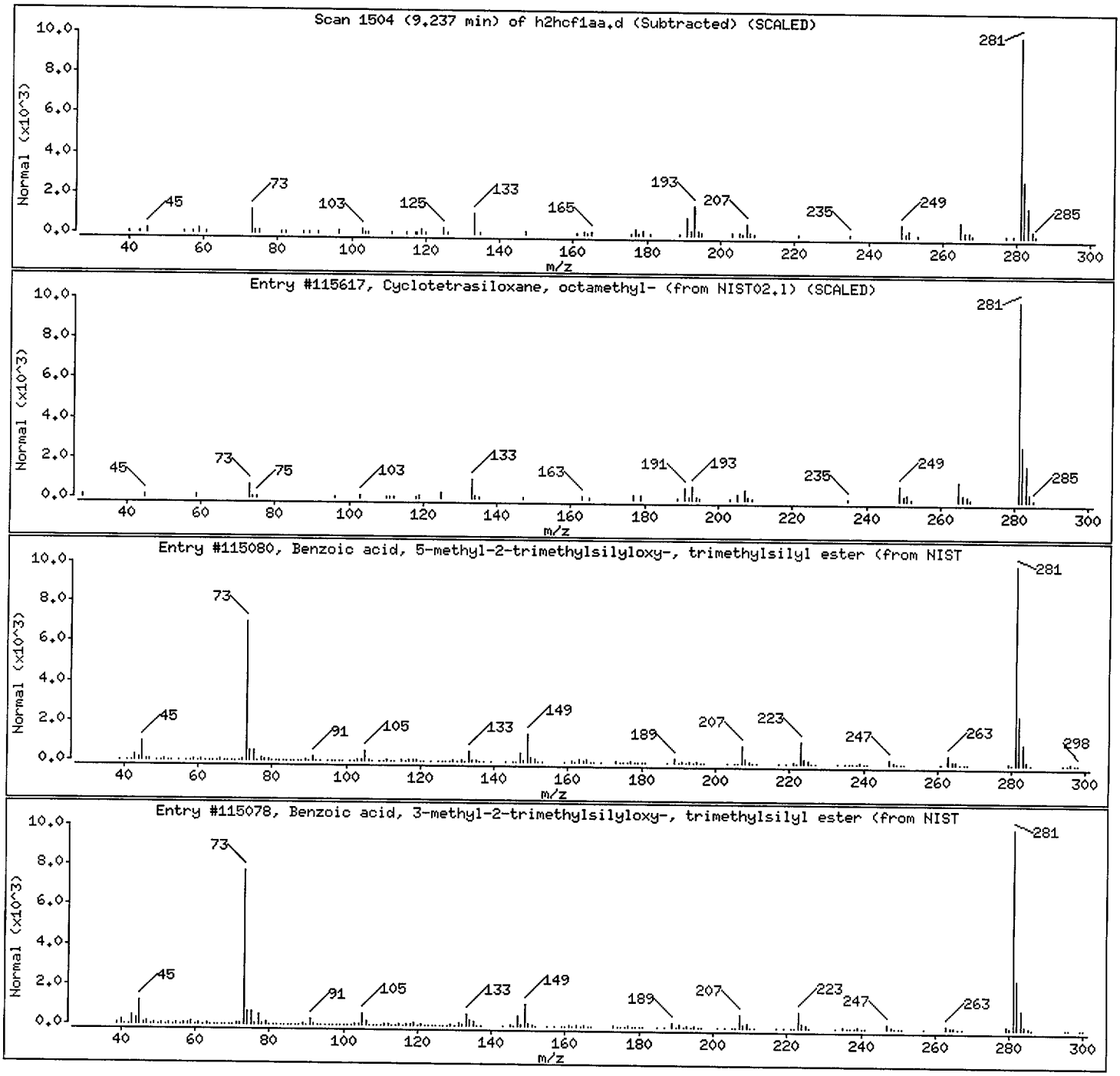
Sample Info: H2HCF1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115617	91	C8H24O4Si4	296
Benzoic acid, 5-methyl-2-trimethylsilylo	1000153-59-4	NIST02.1	115080	59	C14H24O3Si2	296
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST02.1	115078	59	C14H24O3Si2	296



STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0083 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.041**	**0.010**	**ug**	**0.0016**
Bromoform	**0.16**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.013**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0039 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.4 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.12**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.028**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.36**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.033**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**2.4 E**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.37**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0057 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0065 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0065 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(50 - 134)
1,2-Dichloroethane-d4	76	(50 - 134)
Toluene-d8	73	(57 - 127)
Bromofluorobenzene	59	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-025 **Work Order #:** H2HCG1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.074 NJ M	10.085	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Lab Smp Id: H2HCG1AA
Client Smp ID: G-3091-R3-VOST PAIR
Inj Date : 07-APR-2006 14:43
Operator : 22980
Inst ID: mx.i
Smp Info : H2HCG1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/19/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1165097	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	229388	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	247441	10.0000	
$ 4 Dibromofluoromethane	113	4.275	4.273	(0.881)	150245	7.58466	0.18962
$ 5 1,2-Dichloroethane-d4	65	4.555	4.553	(0.939)	117238	7.59271	0.18982
$ 6 Toluene-d8	98	6.252	6.250	(0.824)	819408	7.29600	0.18240
$ 7 4-Bromofluorobenzene	95	8.874	8.872	(0.826)	172391	5.87602	0.14690
M 9 Xylene (total)	106				28961	0.56429	0.014107
11 Chloromethane (spcc)	50	1.258	1.262	(0.259)	2745	0.05058	0.0012644
21 Acetone	43	2.383	2.381	(0.491)	30129	18.2584	0.45646
23 Carbon Disulfide	76	2.499	2.497	(0.515)	47894	0.53939	0.013485
26 Methylene Chloride	84	2.748	2.746	(0.566)	261182	14.4995	0.36249
33 *Vinyl Acetate	86	3.247	3.421	(0.669)	1385	1.04570	~~0.026142~~
34 2,2-Dichloropropane	77	3.868	3.853	(0.797)	2719	0.05318	0.0013294
36 2-Butanone	43	3.868	3.871	(0.797)	11592	4.50384	0.11260
38 *THF	42	4.111	4.109	(0.847)	1787	1.13295	0.028324
39 Chloroform (ccc)	83	4.142	4.139	(0.853)	49447	1.11664	0.027916
41 Carbon Tetrachloride	117	4.440	4.437	(0.915)	6576	0.15725	0.0039313
42 1,1-Dichloropropene	75	4.853	4.437	(1.000)	90778	1.96792	~~0.049198~~
43 Benzene	78	4.610	4.607	(0.950)	39274	0.33285	0.0083212

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
44 1,2-Dichloroethane	62	4.853	4.620	(1.000)	20411	1.02794	~~0.025698~~
45 Trichloroethene	130	5.176	5.173	(1.066)	7222	0.22812	0.0057030
49 Bromodichloromethane	83	5.608	5.605	(1.155)	40244	1.62795	0.040699
51 cis-1,3-Dichloropropene	75	6.313	6.007	(1.301)	13554	0.46818	~~0.011704~~
52 4-Methyl-2-pentanone	43	6.252	6.147	(1.288)	5764	0.93505	0.023376
53 Toluene (ccc)	91	6.313	6.311	(0.832)	1977004	14.7135	0.36784
54 trans-1,3-Dichloropropene	75	6.313	6.506	(0.832)	13554	0.57557	~~0.014389~~
56 1,1,2-Trichloroethane	97	6.818	6.670	(0.899)	26172	2.46583	~~0.061646~~
57 Tetrachloroethene	164	6.824	6.816	(0.900)	2786980	96.5333	2.4133(A)
59 2-Hexanone	43	6.715	6.907	(0.885)	2746	0.61171	~~0.015293~~
60 Chlorodibromomethane	129	7.037	7.035	(0.928)	60895	4.63067	0.11577
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	9399276	136.270	3.4067(A)
64 Ethylbenzene (ccc)	106	7.719	7.716	(1.018)	2132	0.04495	0.0011237
65 m&p-Xylene	106	7.834	7.838	(1.033)	14480	0.26047	0.0065116
66 o-Xylene	106	7.834	8.251	(1.033)	14480	0.30382	~~0.0075956~~
68 Bromoform (spcc)	173	8.467	8.464	(1.116)	39806	6.26304	0.15658
69 Isopropylbenzene	105	8.686	8.689	(1.145)	11069	0.07242	0.0018104
73 1,2,3-Trichloropropane	110	9.239	9.115	(0.860)	1885	0.81628	~~0.020407~~
80 1,2,4-Trimethylbenzene	105	10.085	10.125	(0.939)	89427	1.12017	~~0.028004~~
90 Napthalene	128	13.948	13.946	(1.298)	14153	1.31834	0.032958

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcg1aa.d
Lab Smp Id: H2HCG1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3091-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1165097	1.38
2 Chlorobenzene-d5	214194	107097	428388	229388	7.09
3 1,4 Dichlorobenze	242601	121300	485202	247441	2.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

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.

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 07-Apr-2006 15:00

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCG1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3091-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

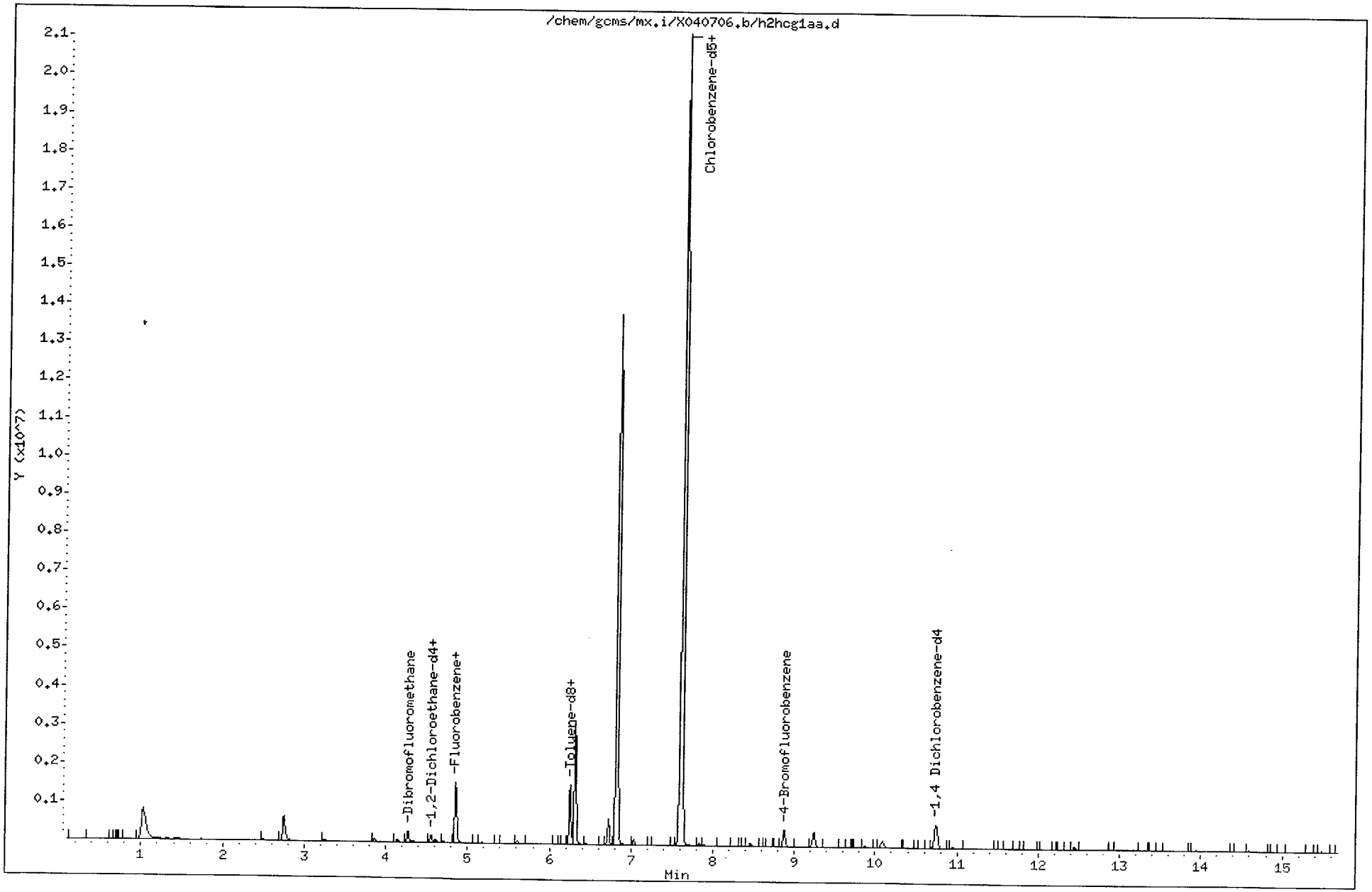
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18962	75.85	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18982	75.93	50-150
$ 6 Toluene-d8	0.25000	0.18240	72.96	50-150
$ 7 4-Bromofluorobenze	0.25000	0.14690	58.76	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Date : 07-APR-2006 14:43
Client ID: G-3091-R3-VOST PAIR
Sample Info: H2HCG1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

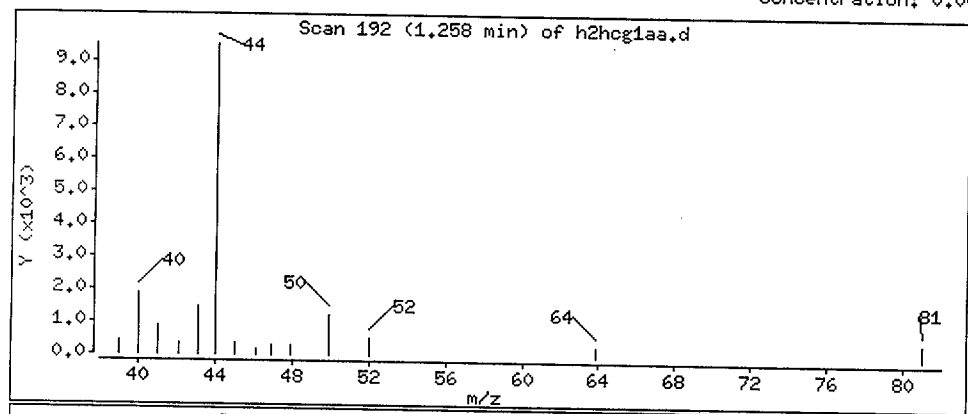
Operator: 22980

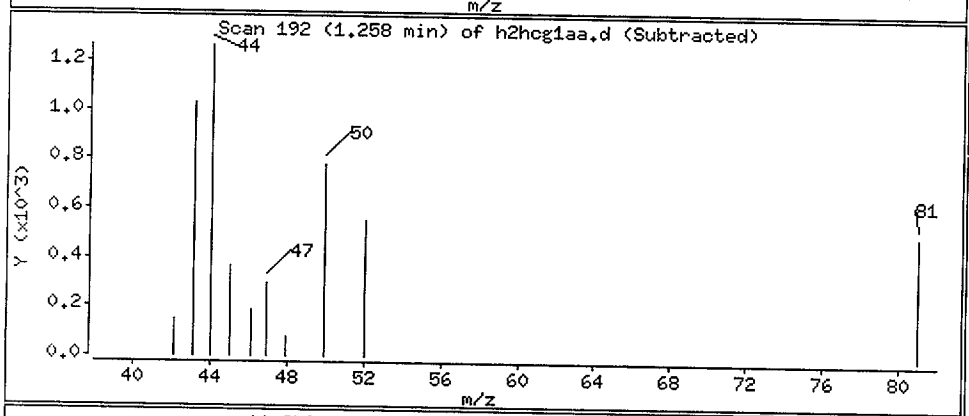
Column phase: J+W 624

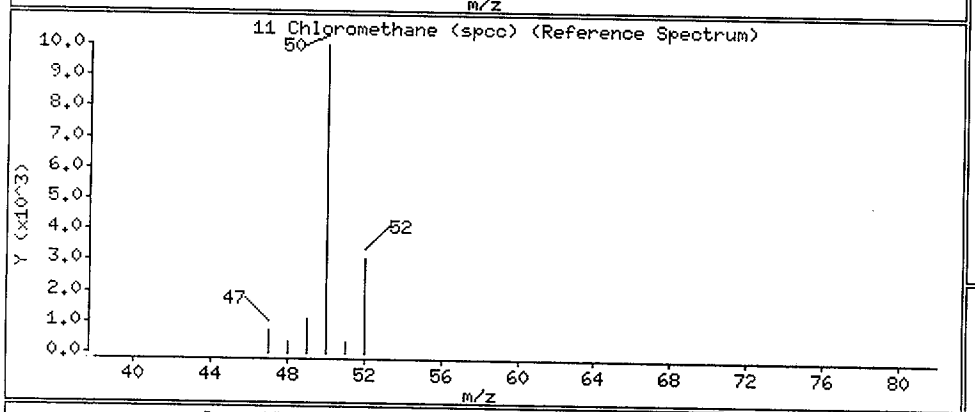
Column diameter: 0.18

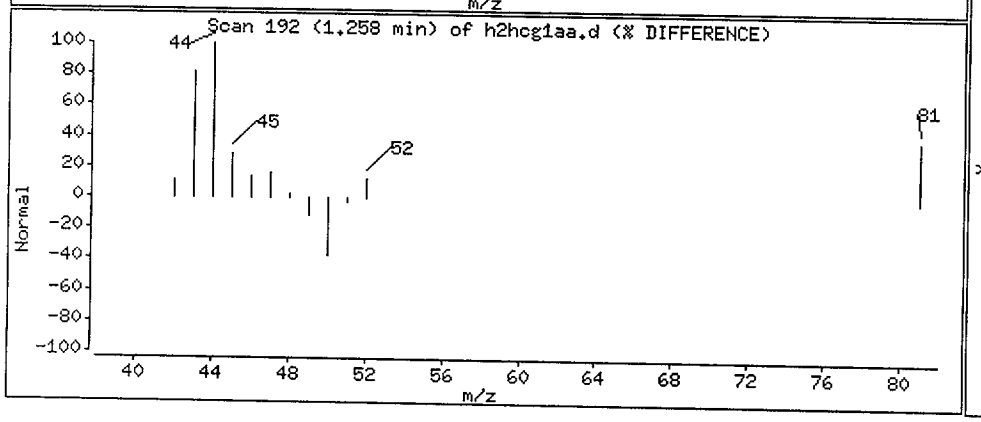
11 Chloromethane (spcc)

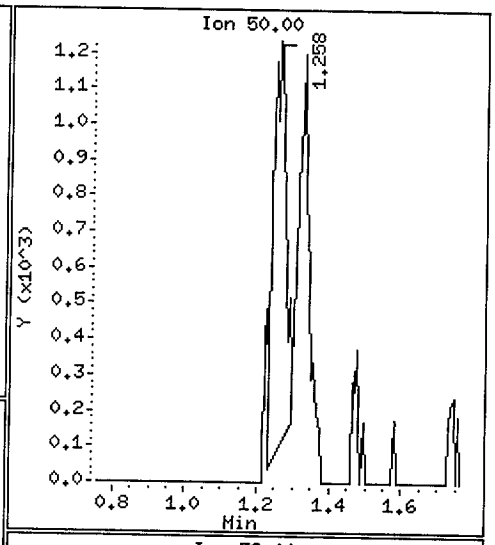
Concentration: 0.0012644 ug

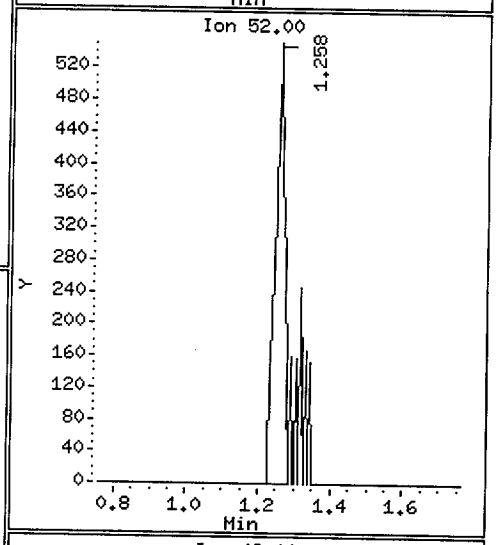


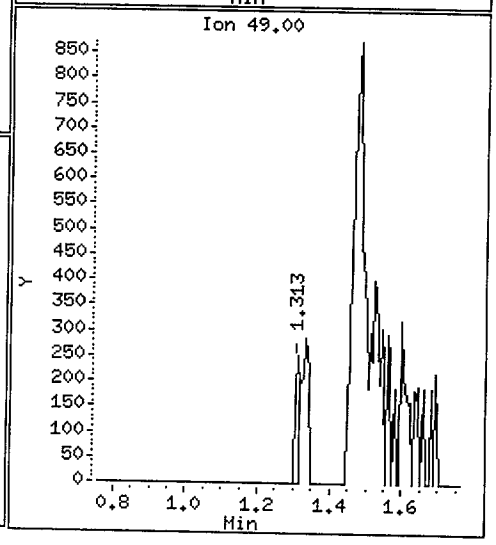












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

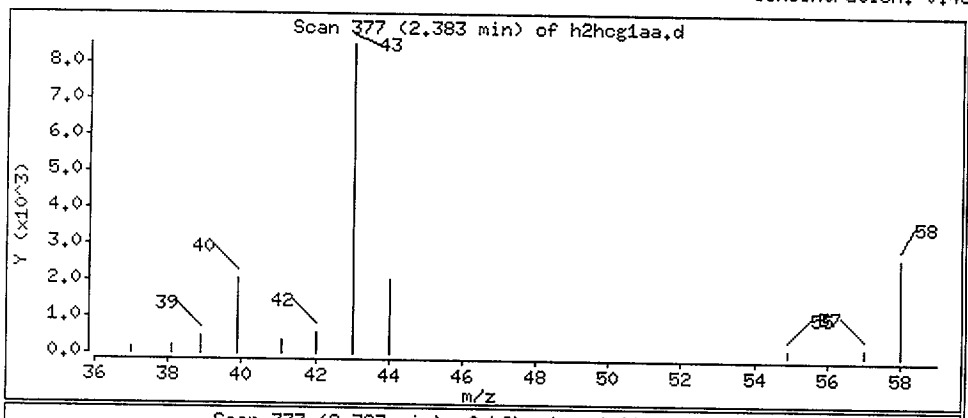
Operator: 22980

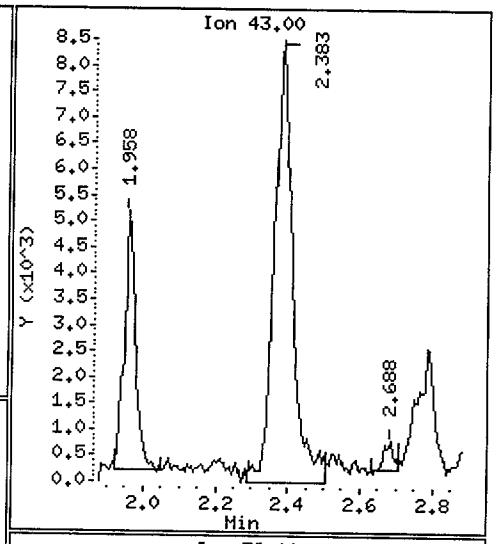
Column phase: J+W 624

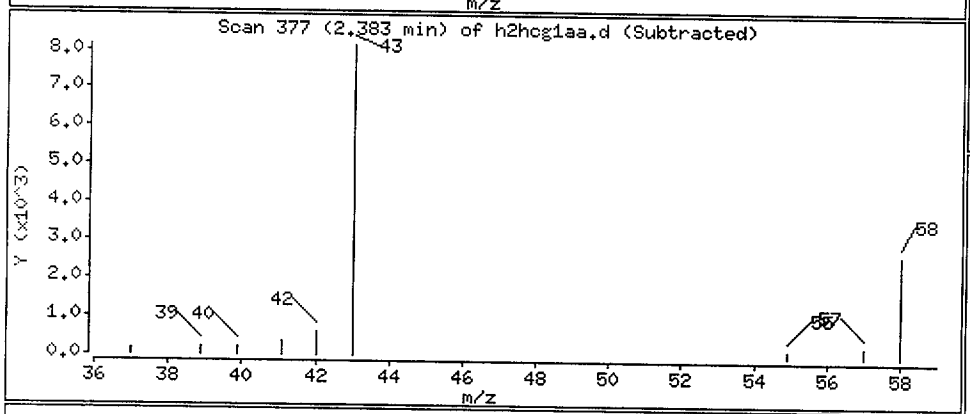
Column diameter: 0.18

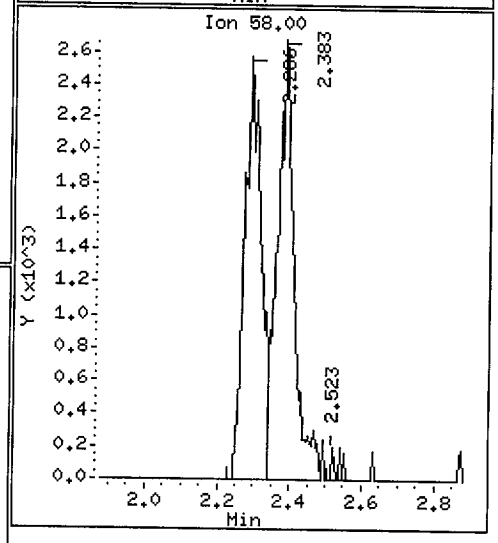
21 Acetone

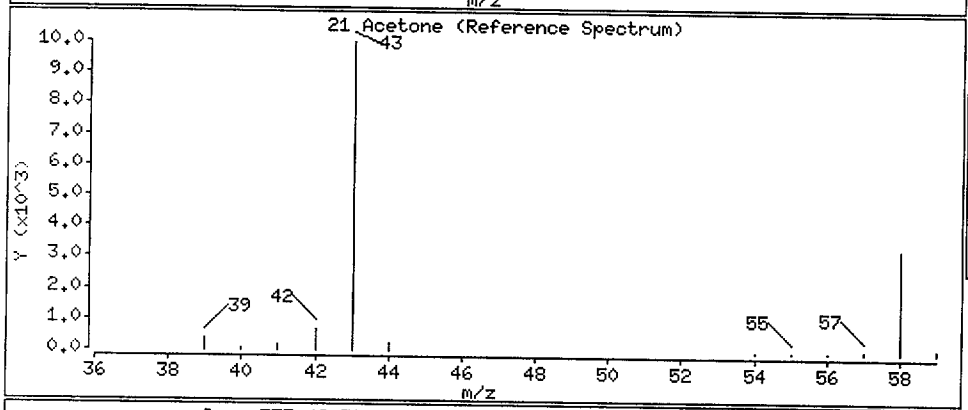
Concentration: 0.45646 ug

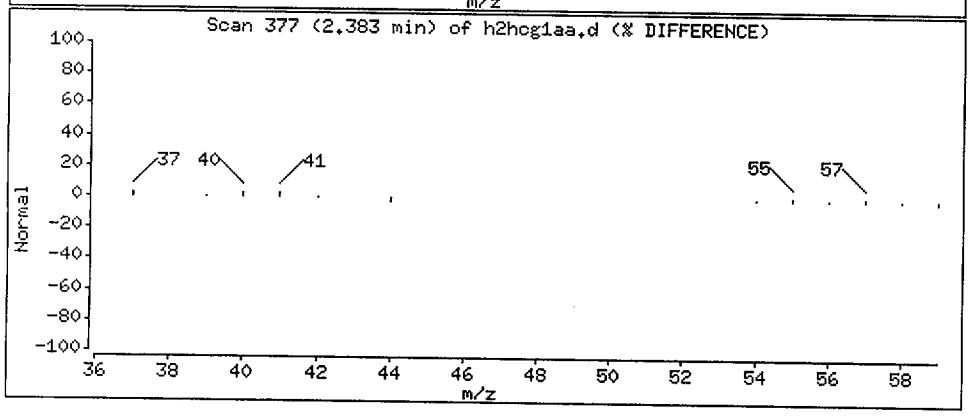












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

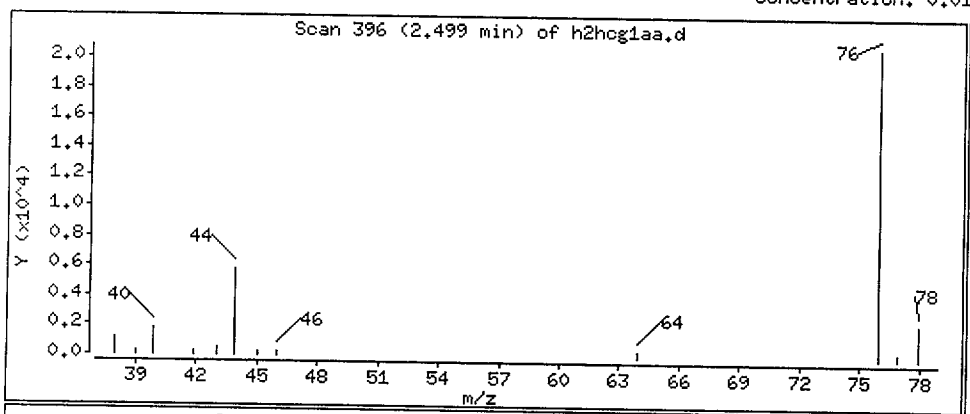
Operator: 22980

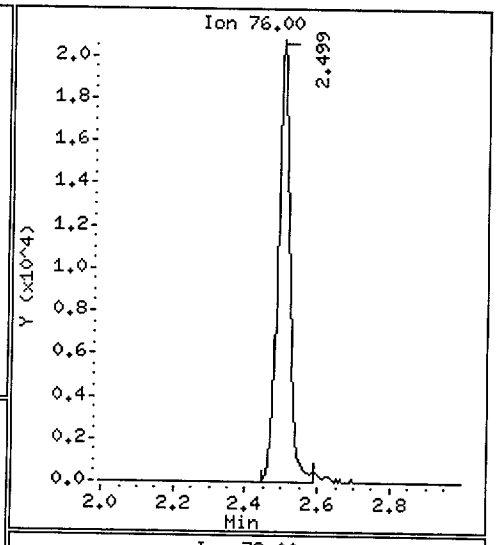
Column phase: J+W 624

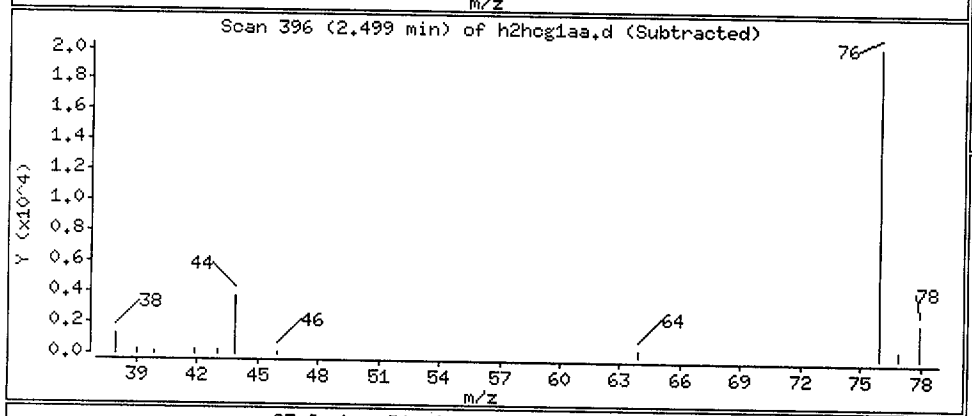
Column diameter: 0.18

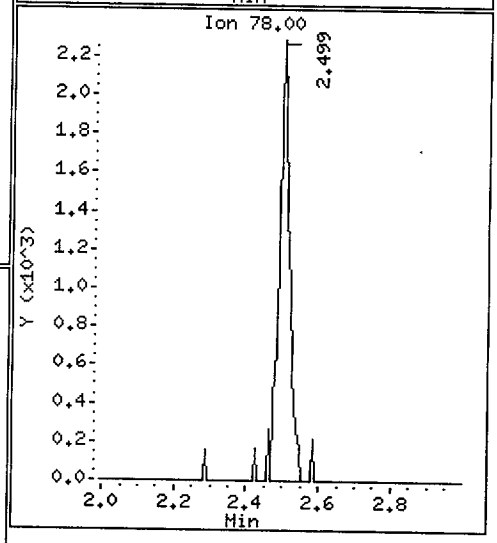
23 Carbon Disulfide

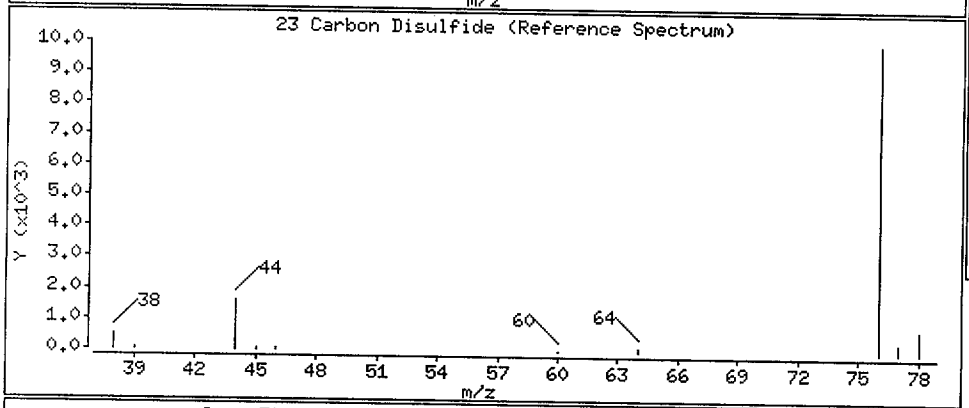
Concentration: 0.013485 ug

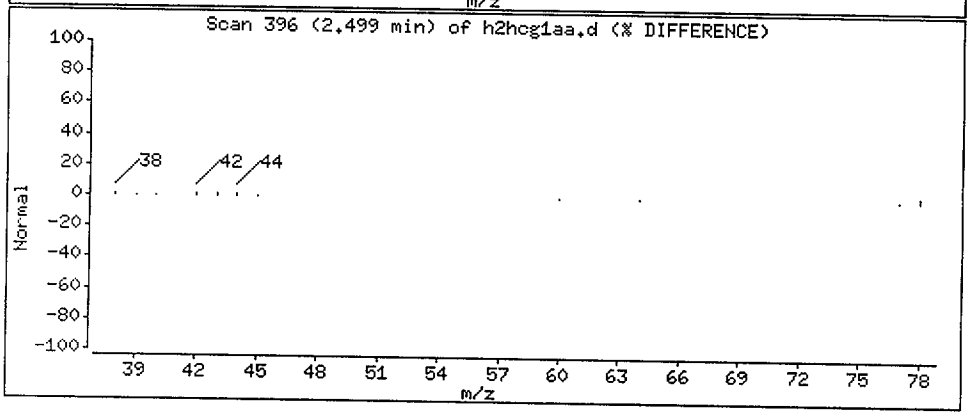












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

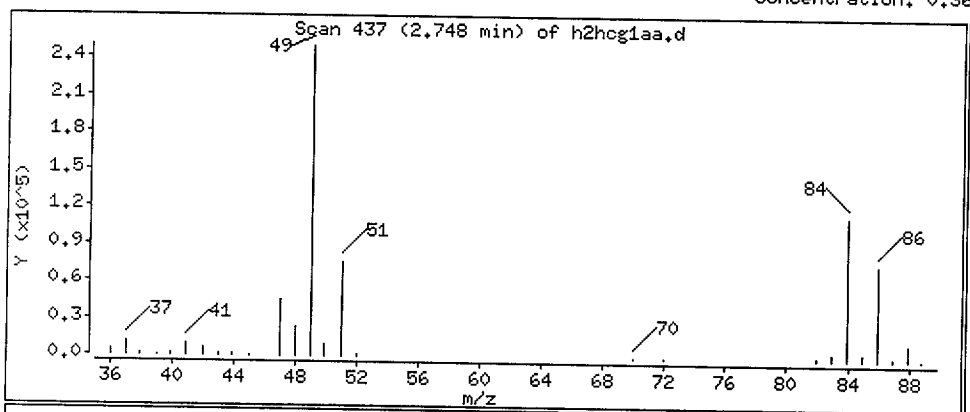
Operator: 22980

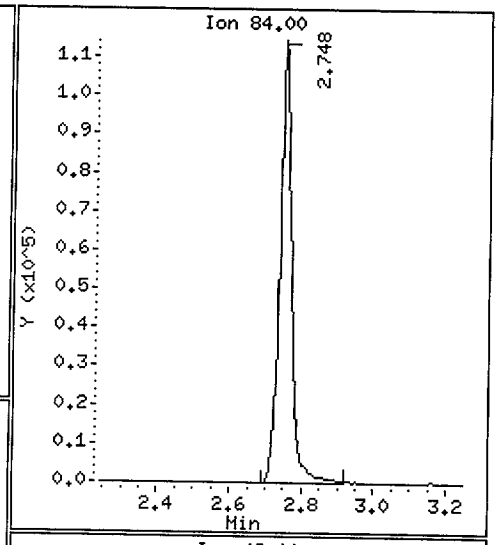
Column phase: J+W 624

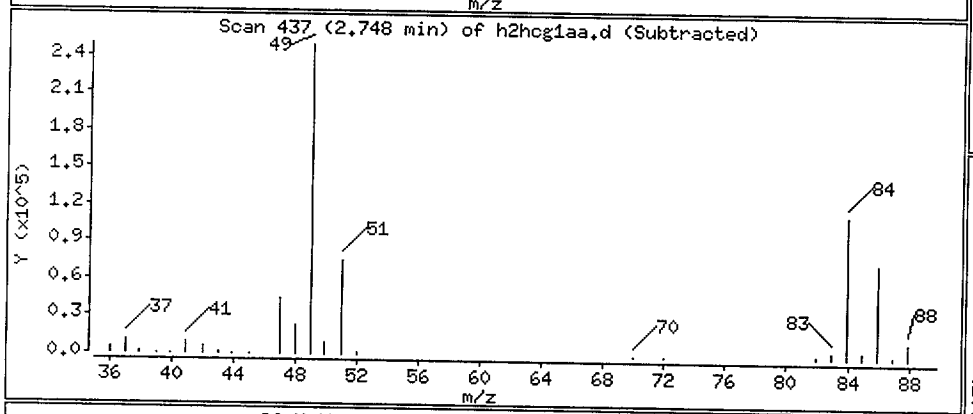
Column diameter: 0.18

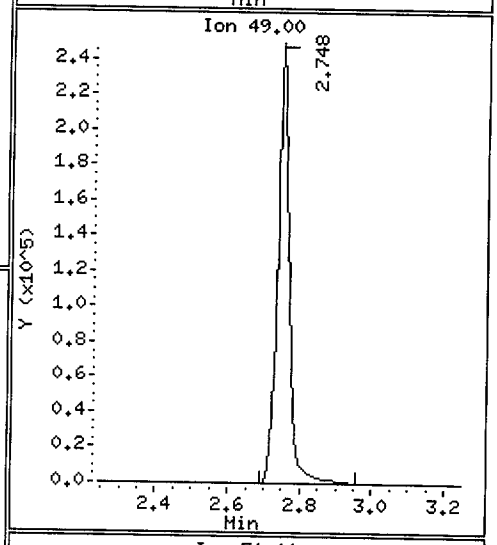
26 Methylene Chloride

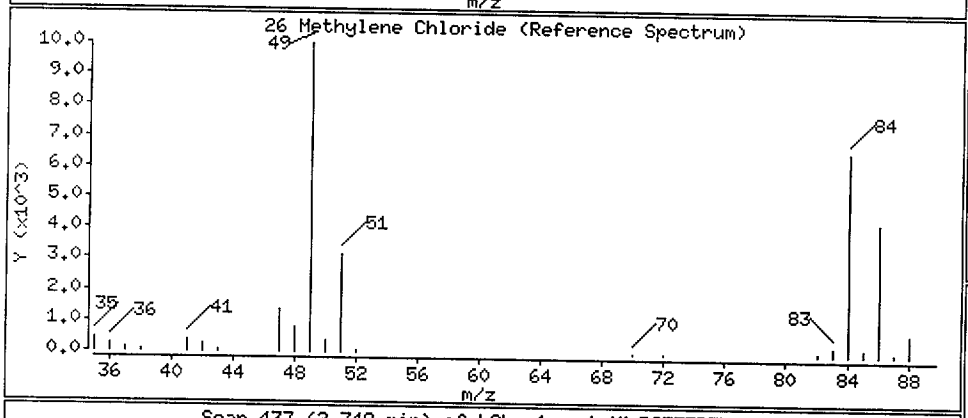
Concentration: 0.36249 ug

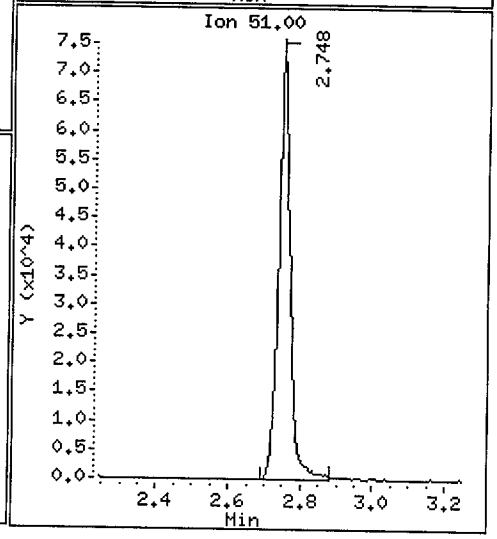


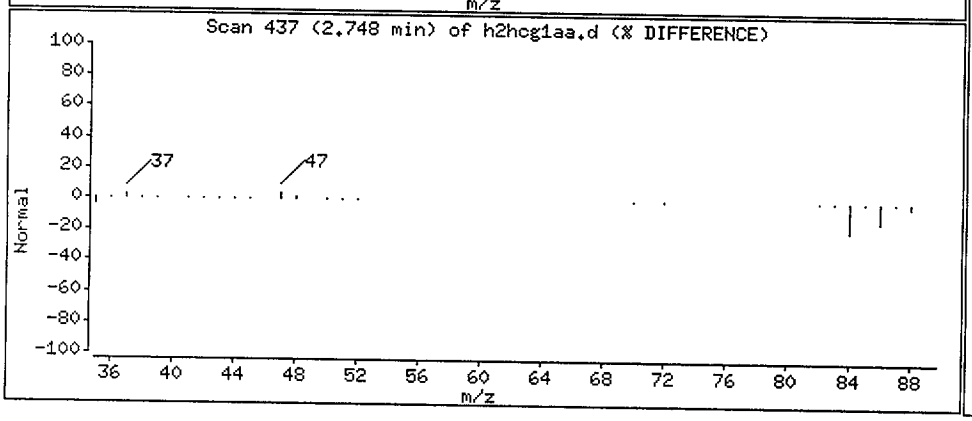












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

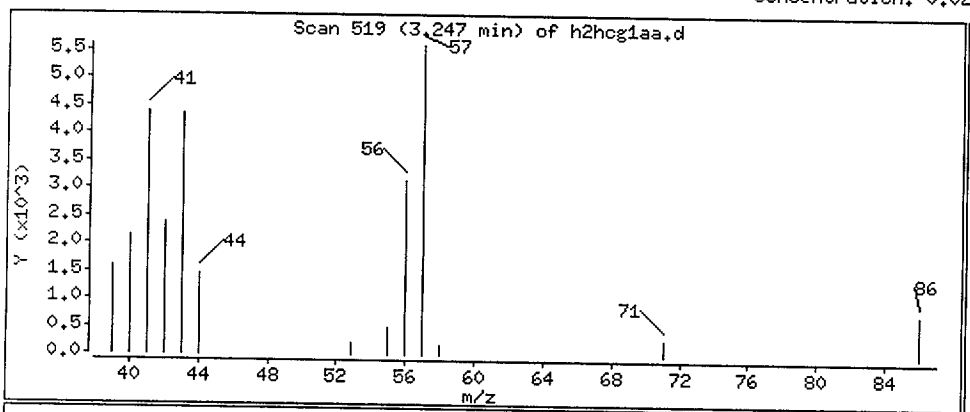
Operator: 22980

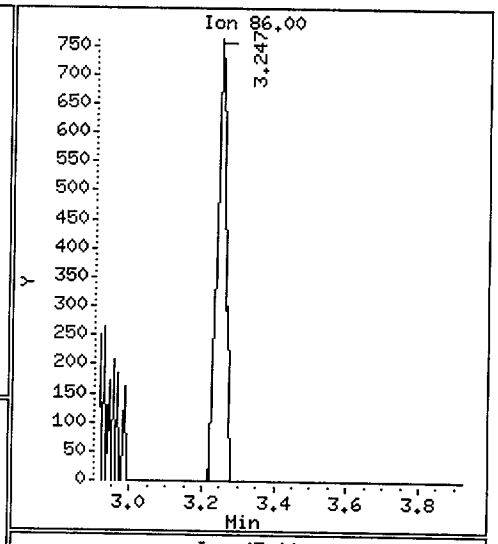
Column phase: J+W 624

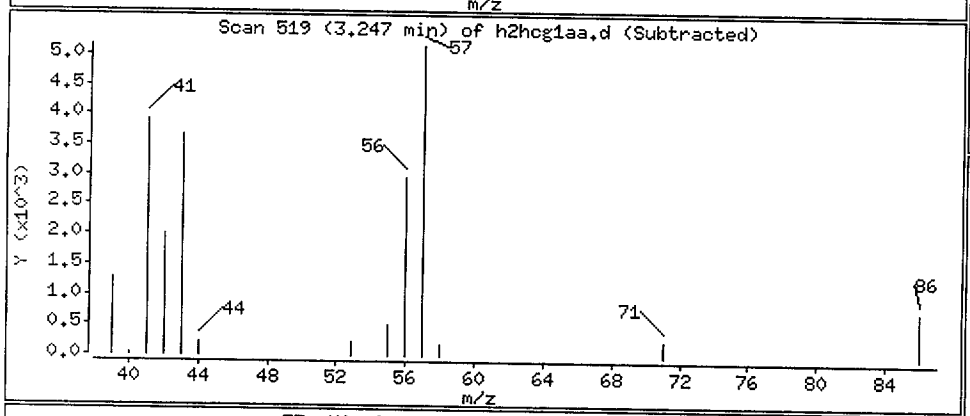
Column diameter: 0.18

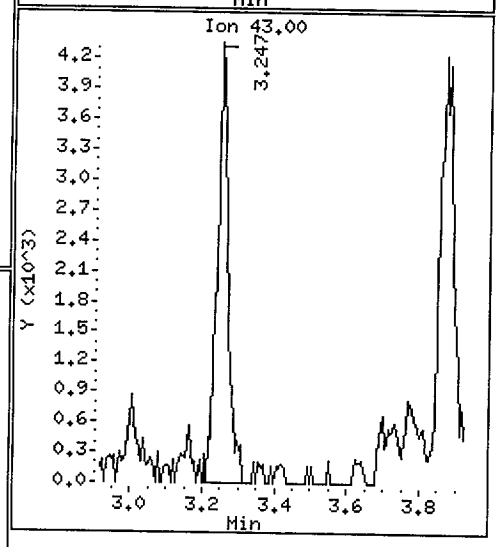
33 *Vinyl Acetate

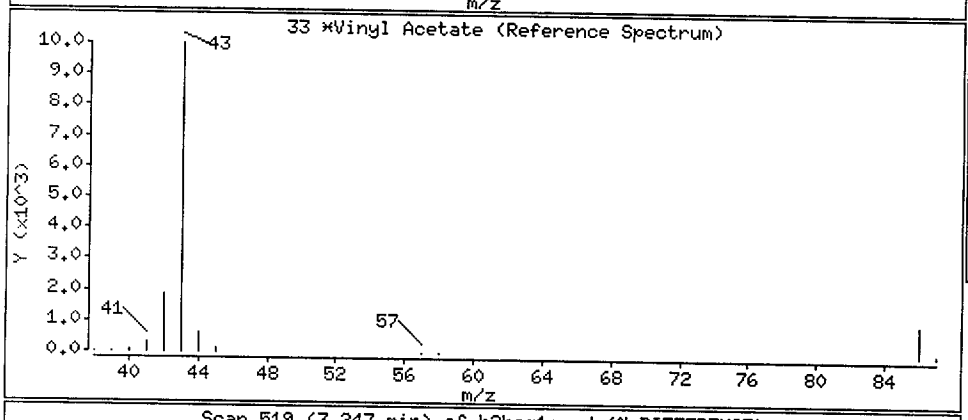
Concentration: 0.026142 ug

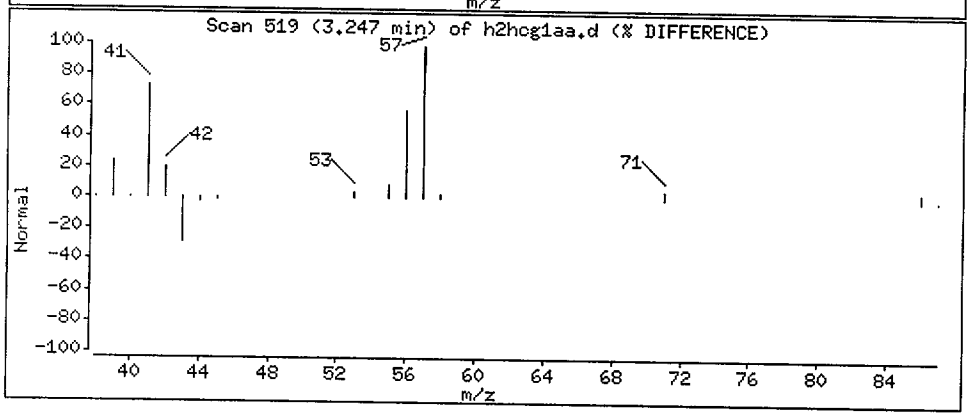












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

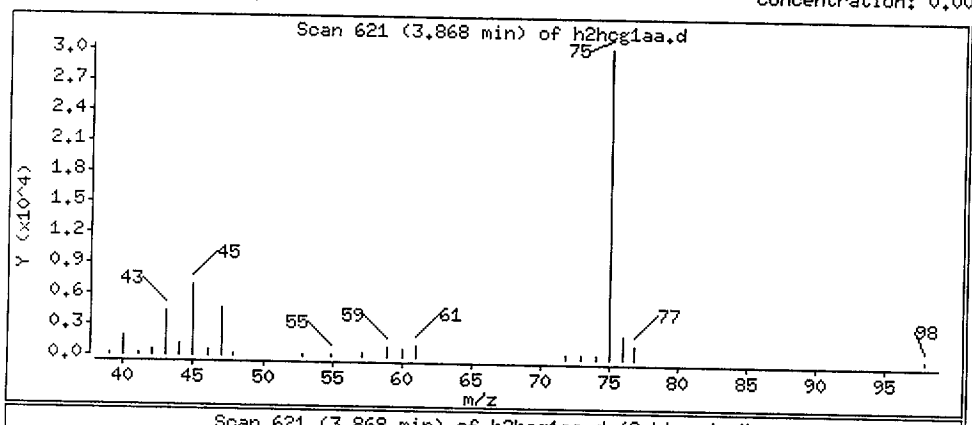
Operator: 22980

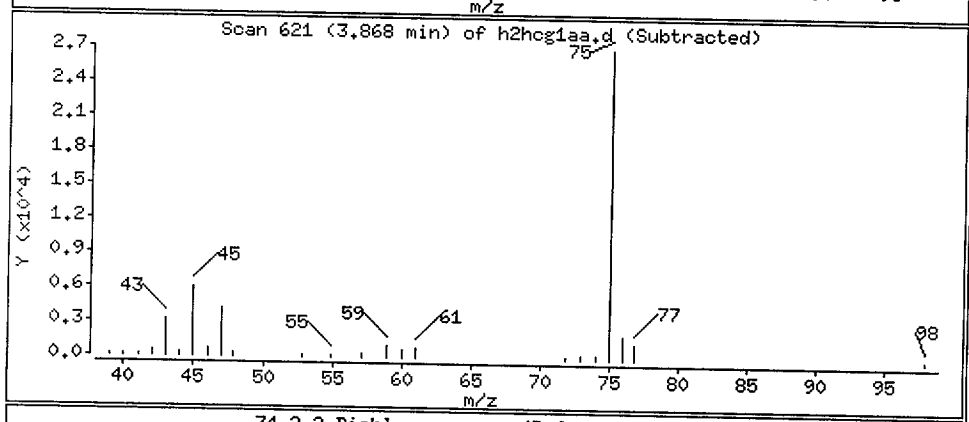
Column phase: J+W 624

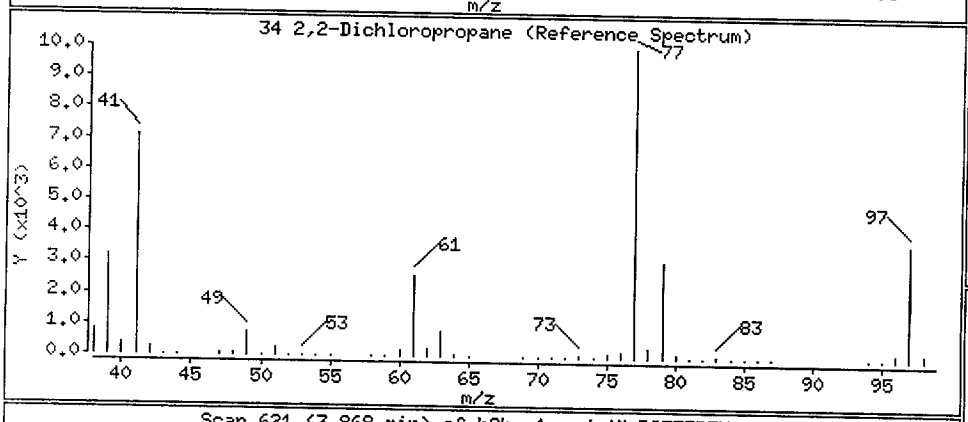
Column diameter: 0.18

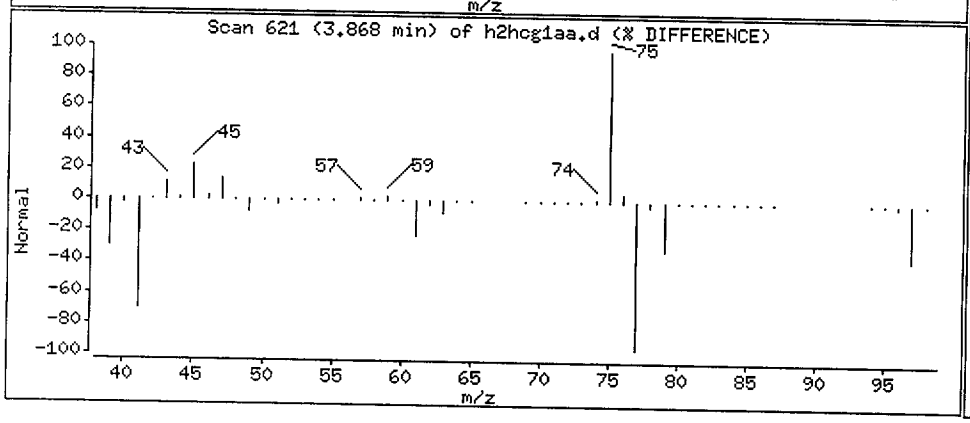
34 2,2-Dichloropropane

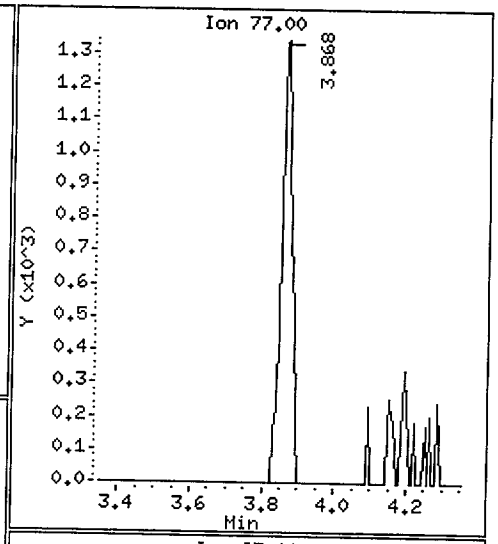
Concentration: 0.0013294 ug

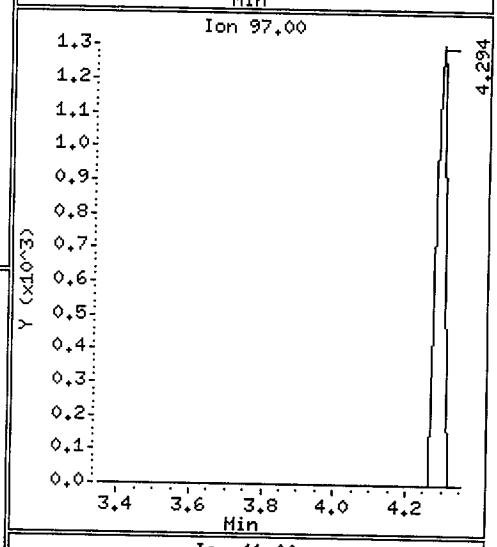


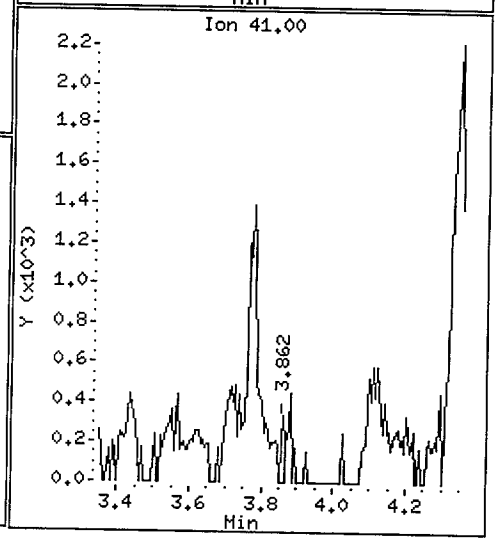












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

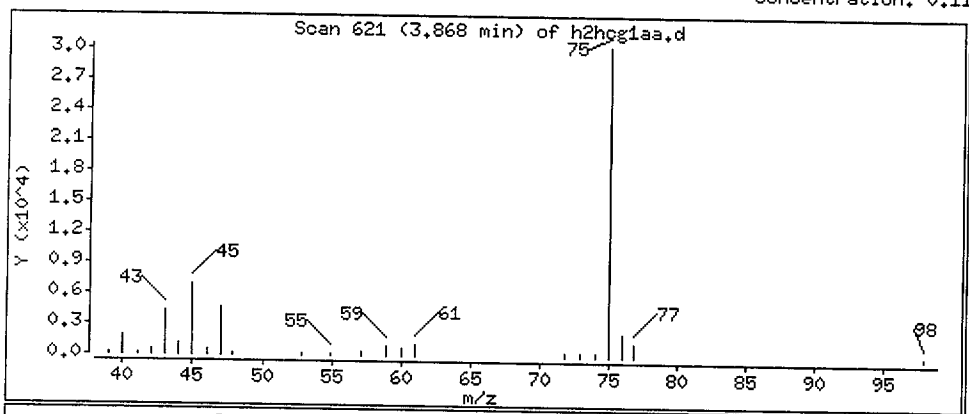
Operator: 22980

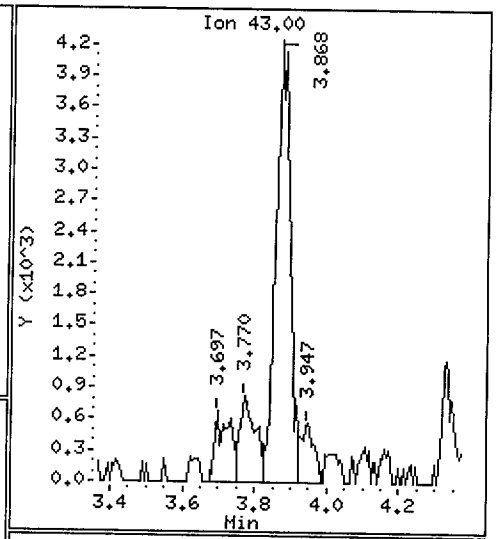
Column phase: J+W 624

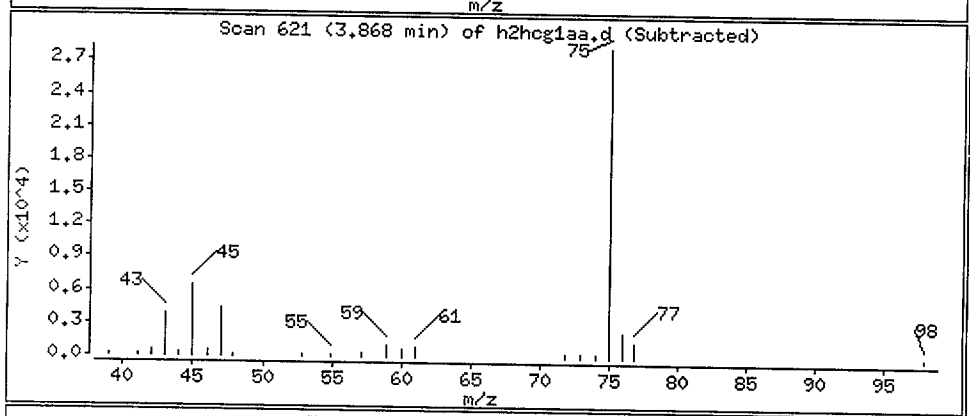
Column diameter: 0.18

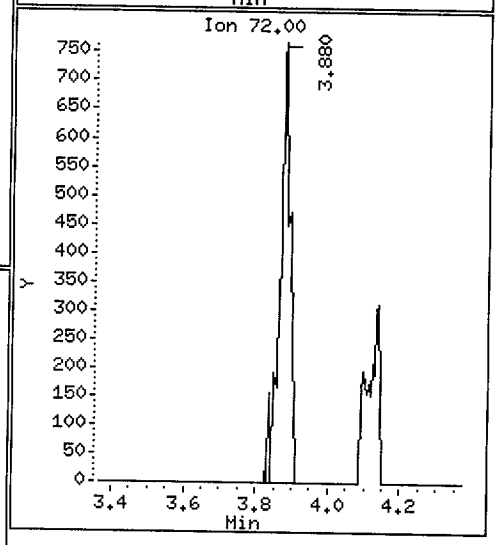
36 2-Butanone

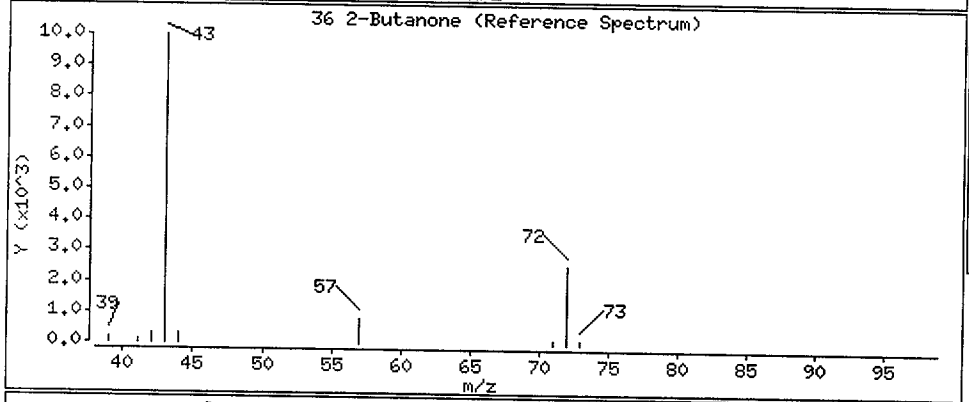
Concentration: 0.11260 ug

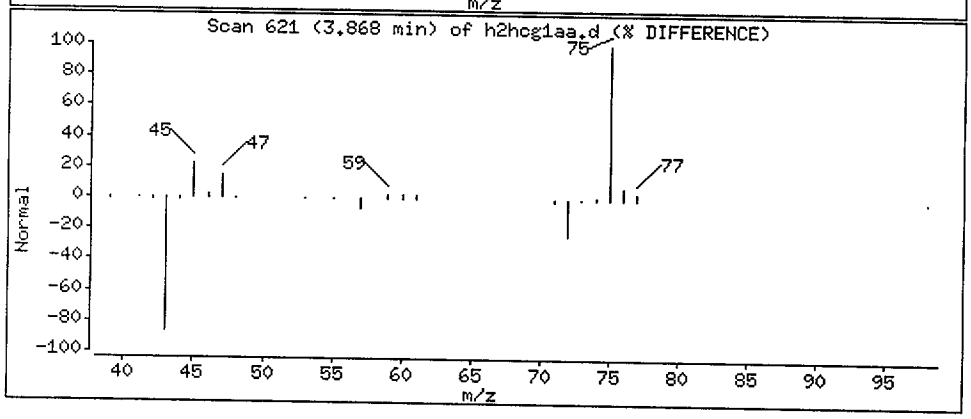












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

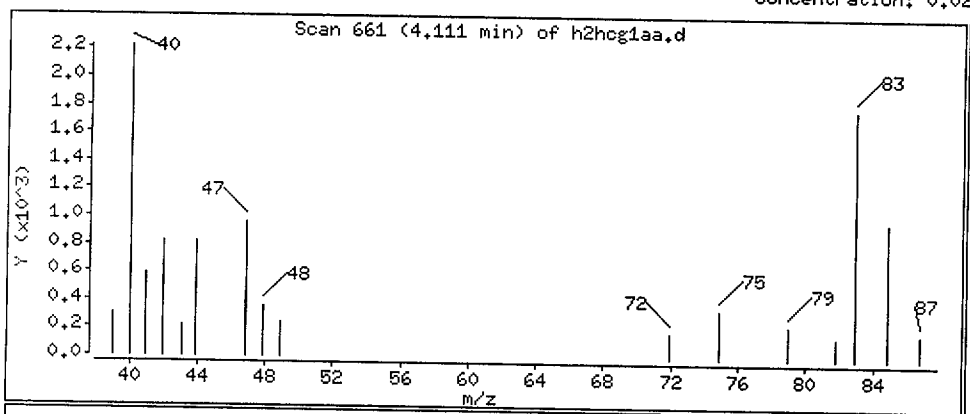
Operator: 22980

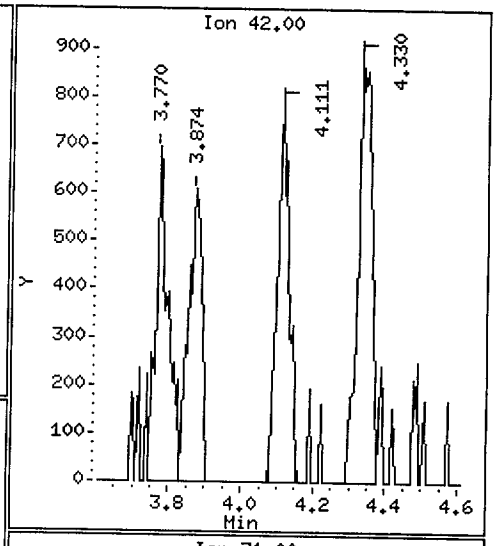
Column phase: J+W 624

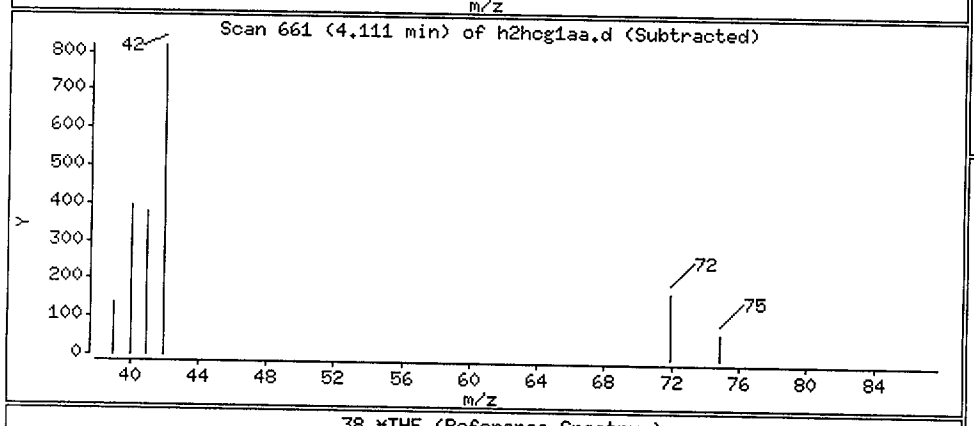
Column diameter: 0.18

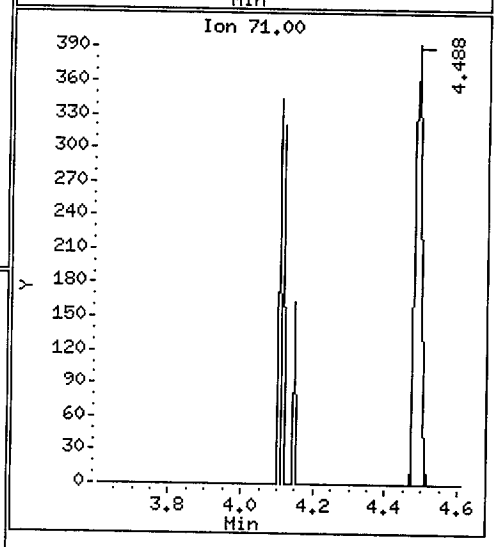
38 *THF

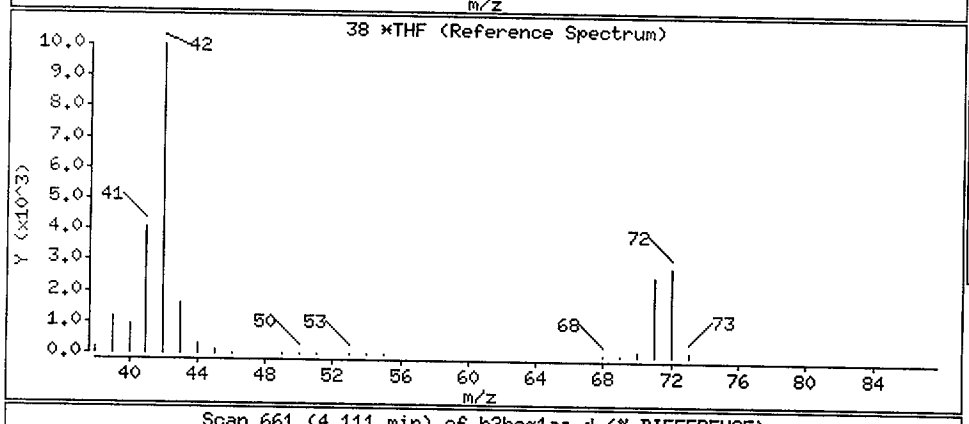
Concentration: 0.028324 ug

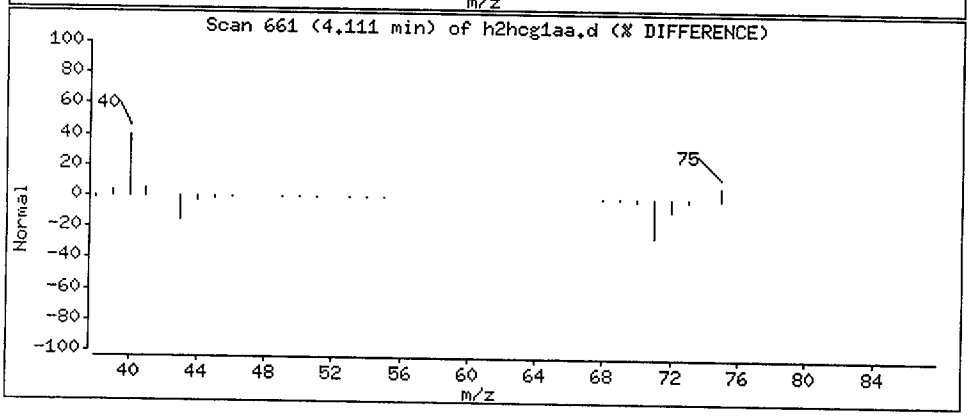












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCC1AA,1,0,,,

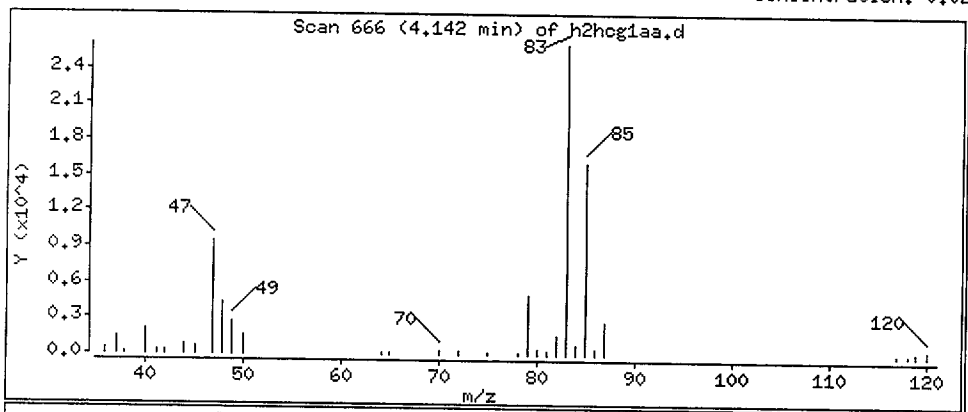
Operator: 22980

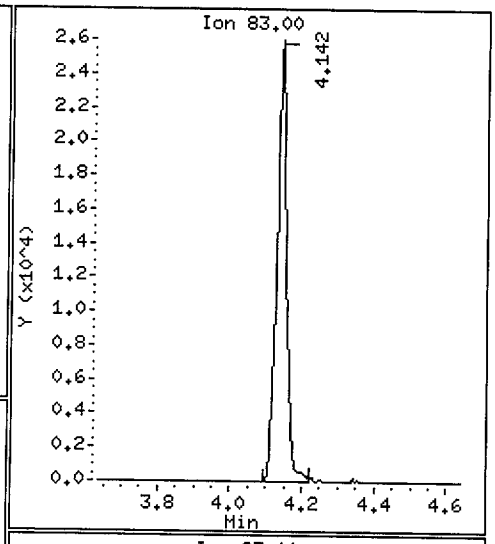
Column phase: J+W 624

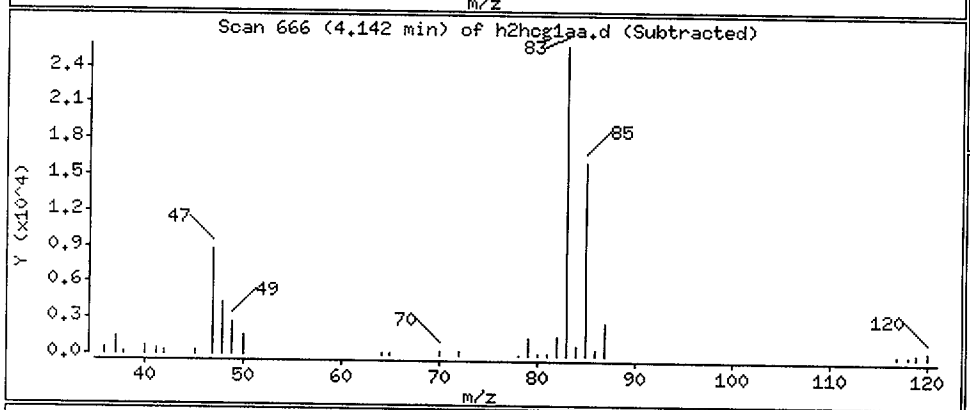
Column diameter: 0.18

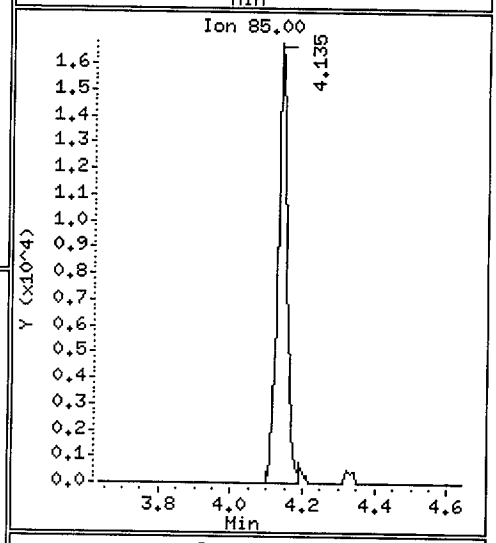
39 Chloroform (ccc)

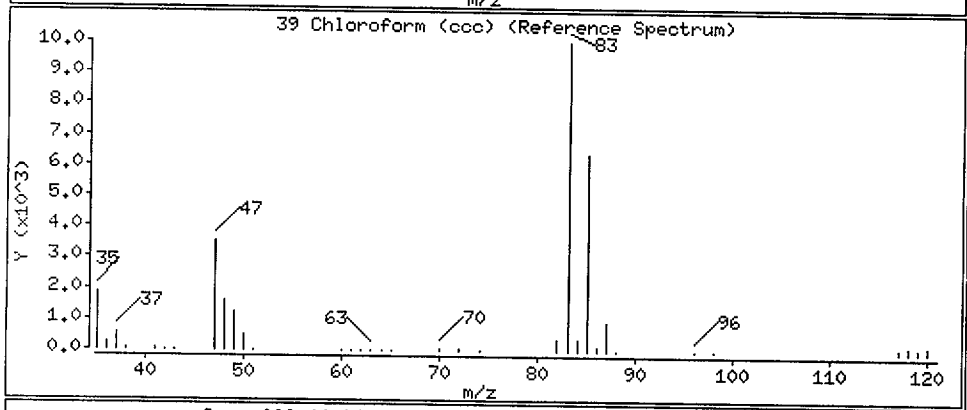
Concentration: 0.027916 ug

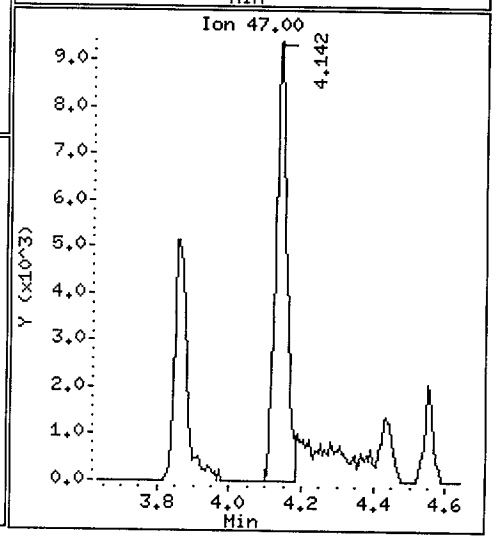


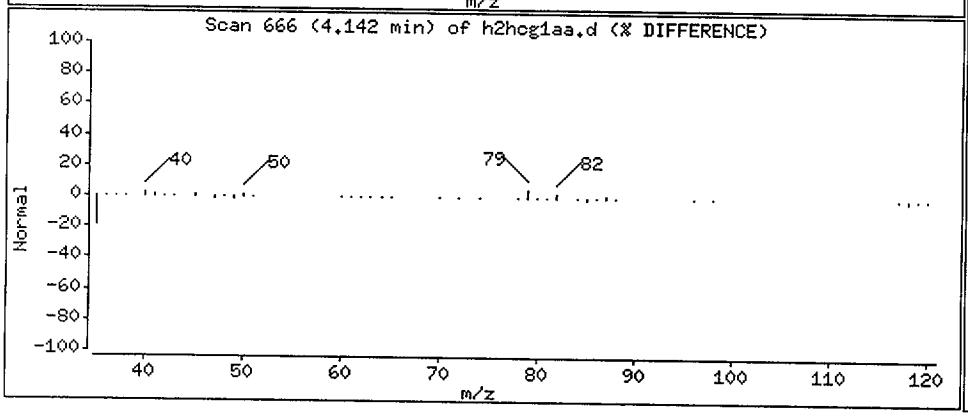












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

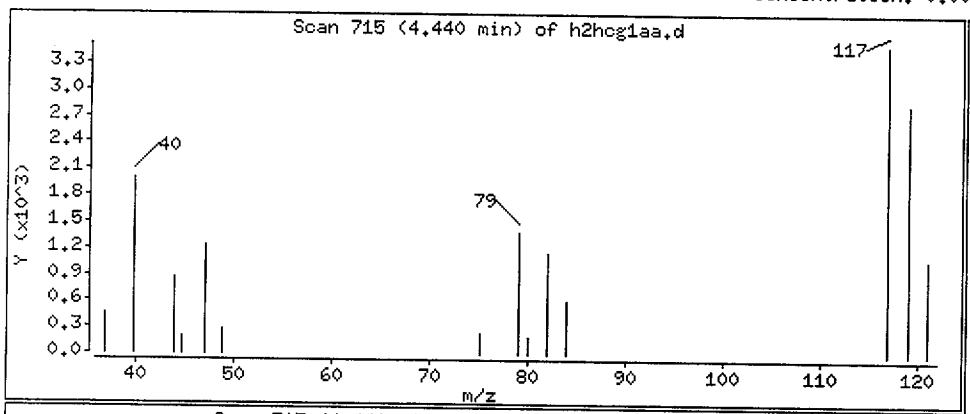
Operator: 22980

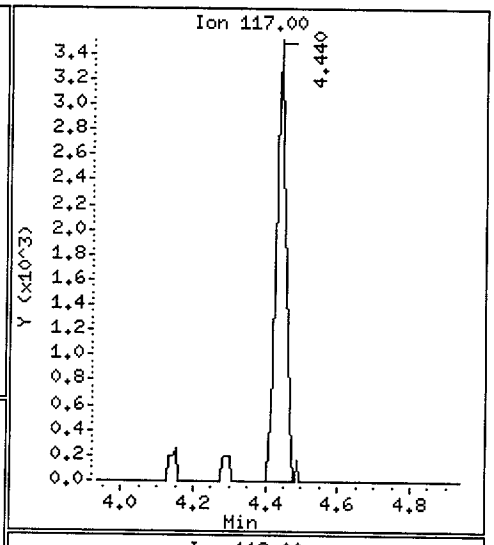
Column phase: J+W 624

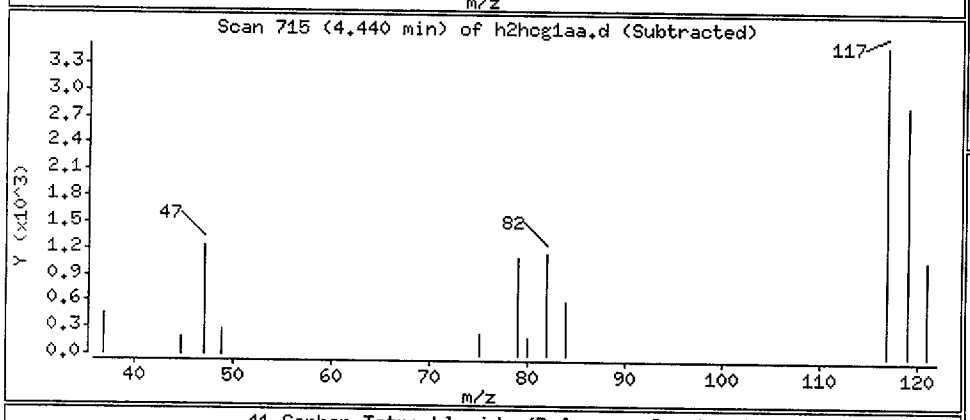
Column diameter: 0.18

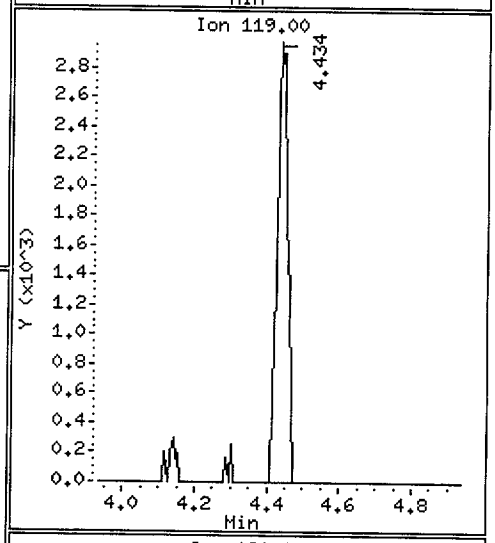
41 Carbon Tetrachloride

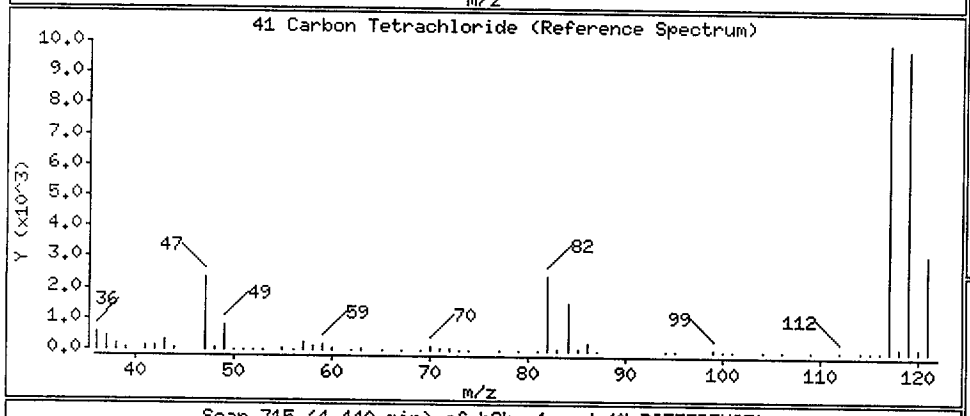
Concentration: 0.0039313 ug

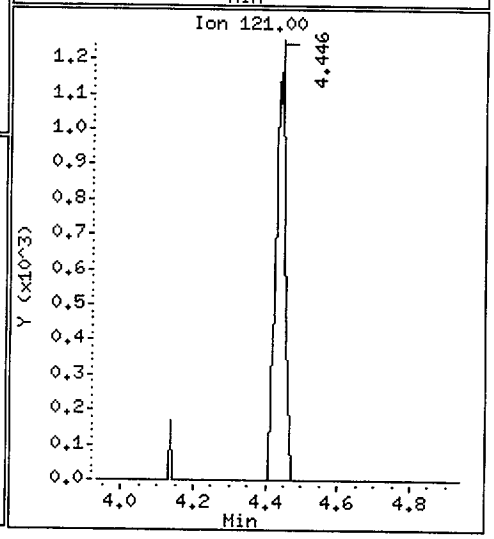


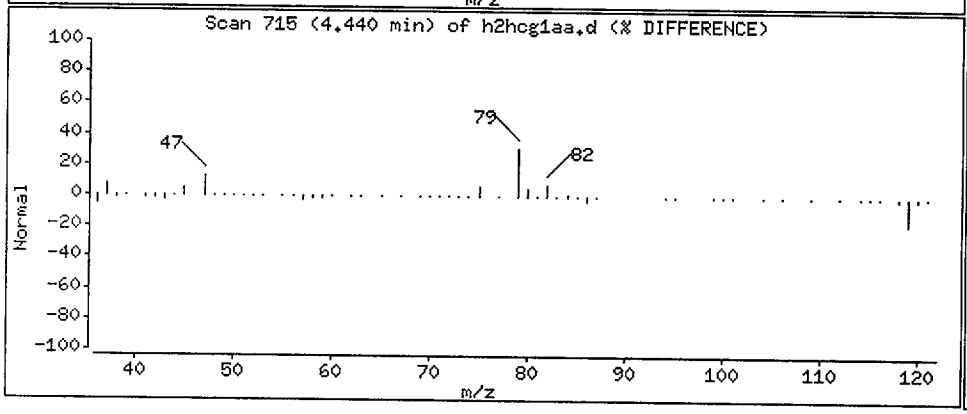












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

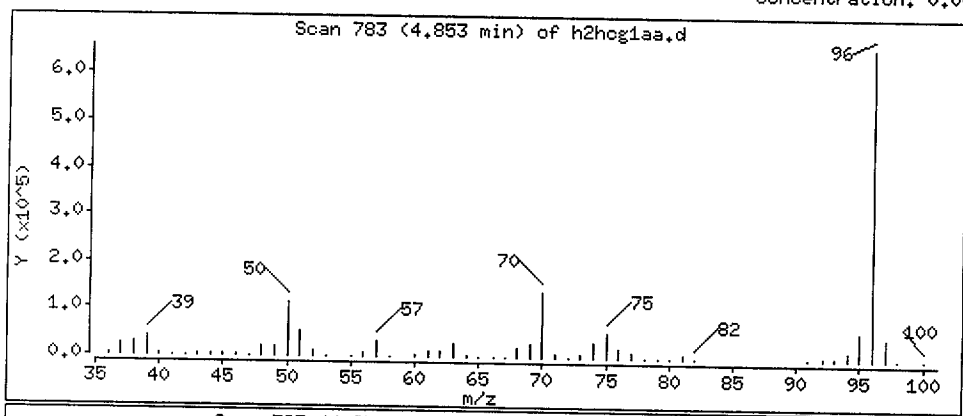
Operator: 22980

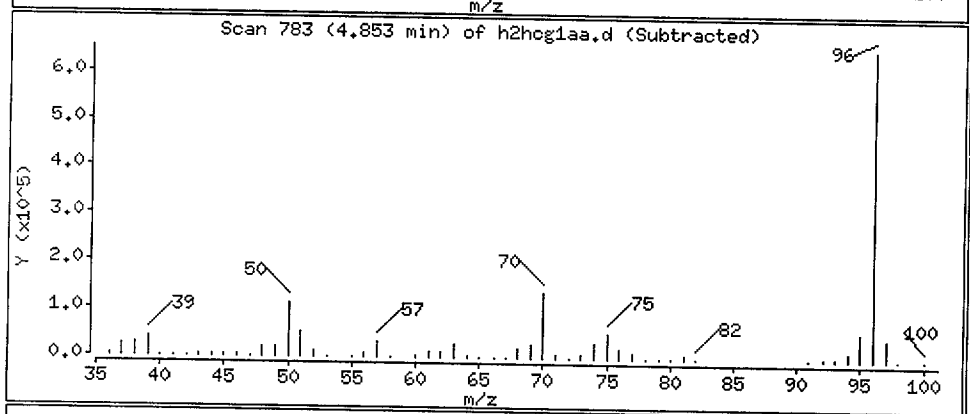
Column phase: J+W 624

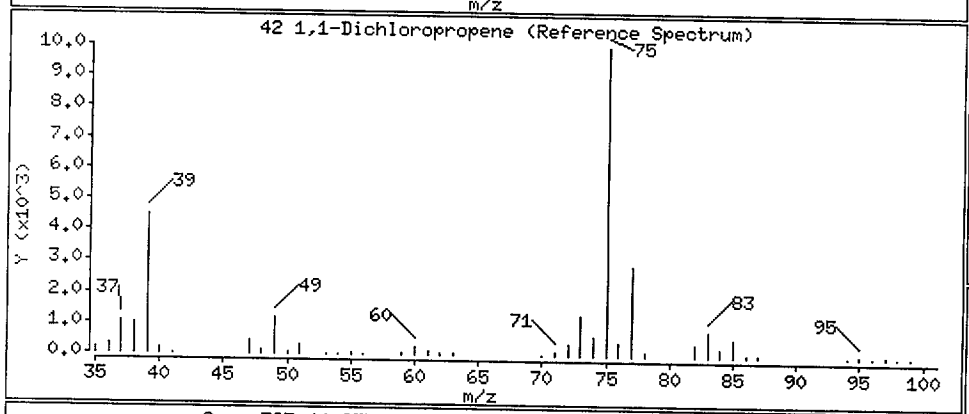
Column diameter: 0.18

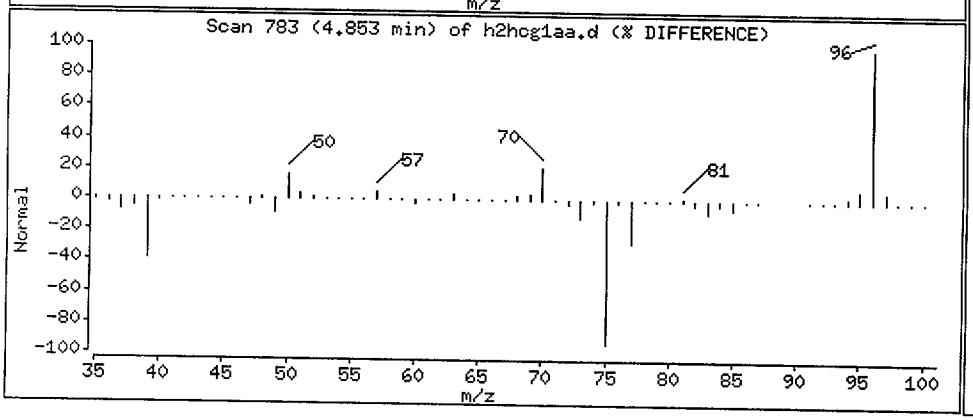
42 1,1-Dichloropropene

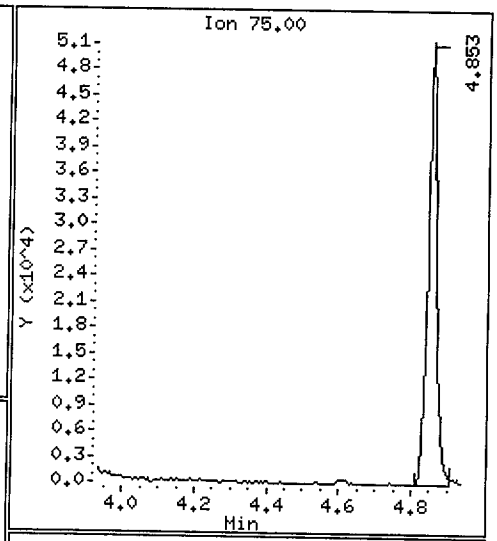
Concentration: 0.049198 ug

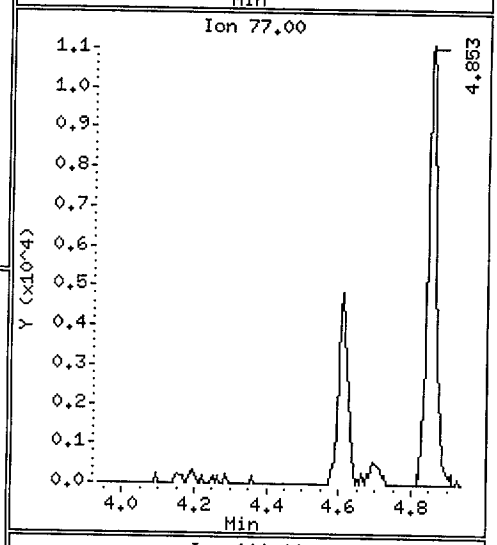


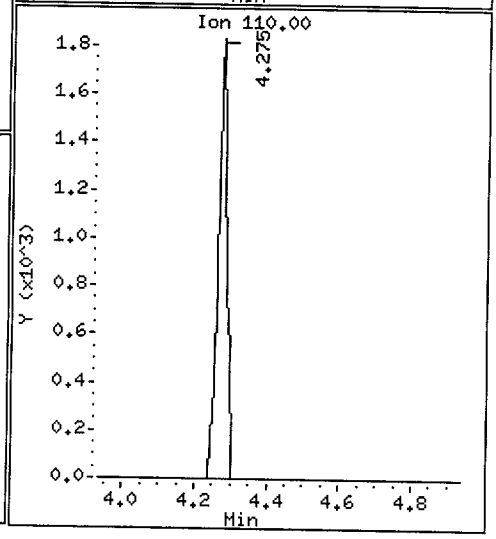












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

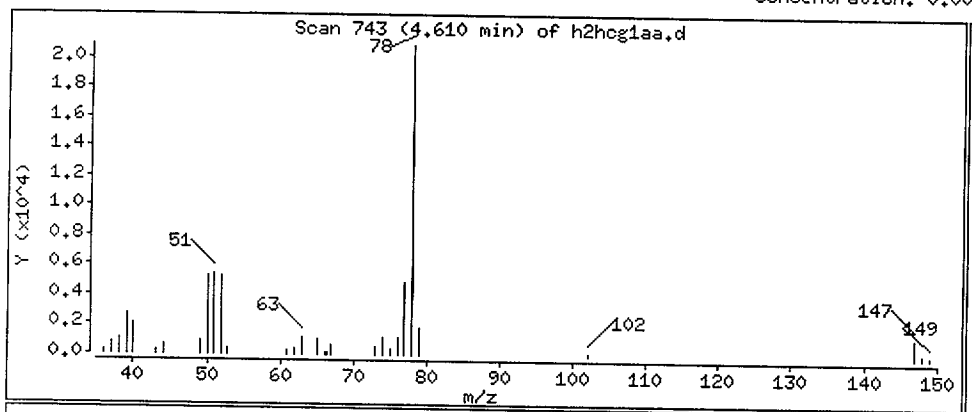
Operator: 22980

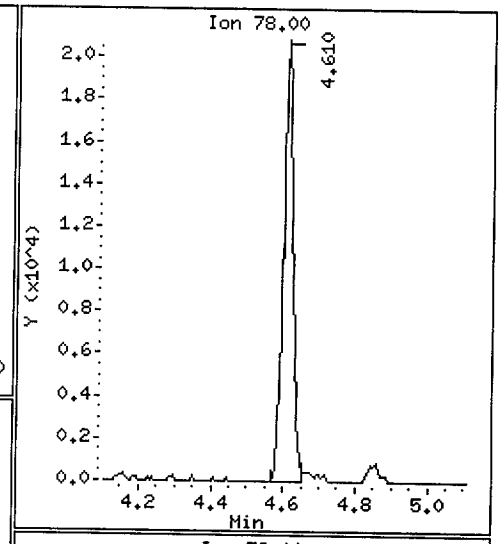
Column phase: J+W 624

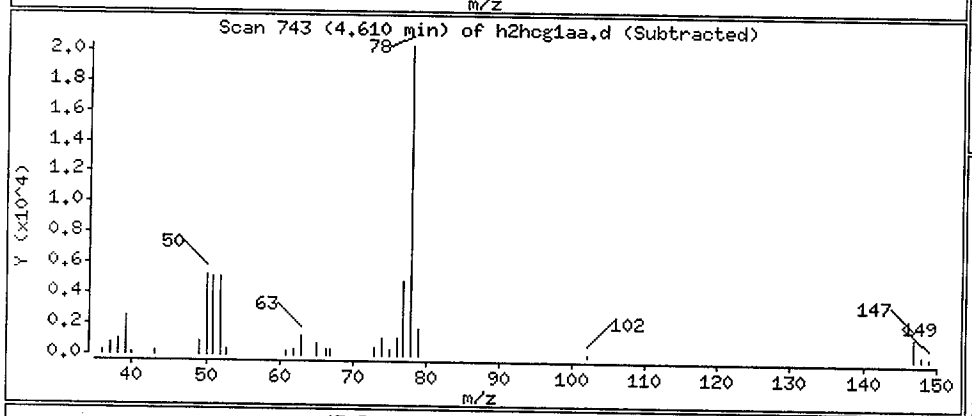
Column diameter: 0.18

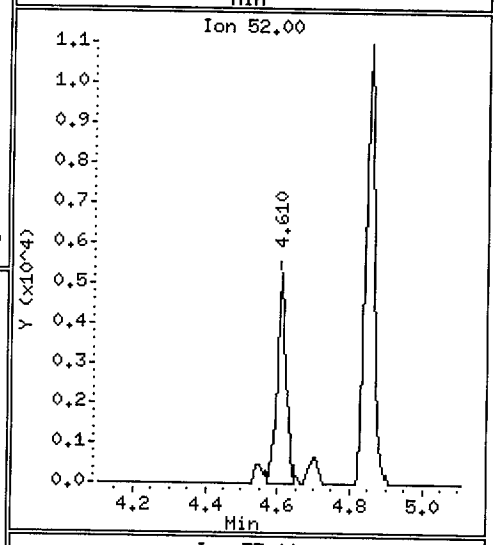
43 Benzene

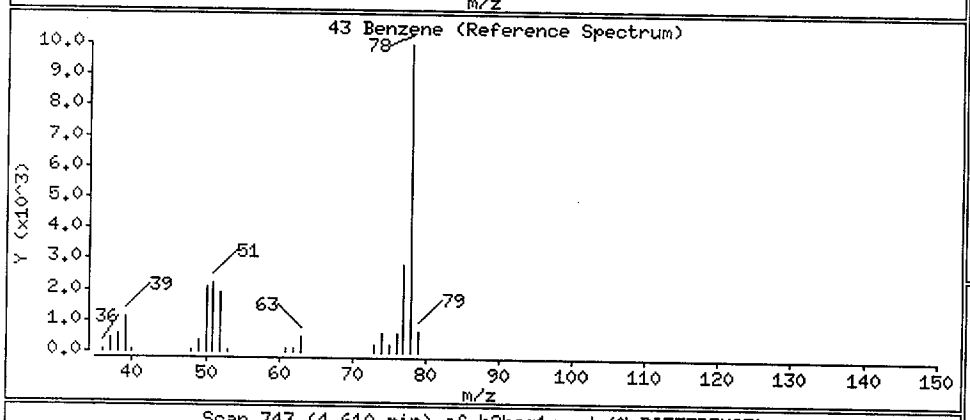
Concentration: 0.0083212 ug

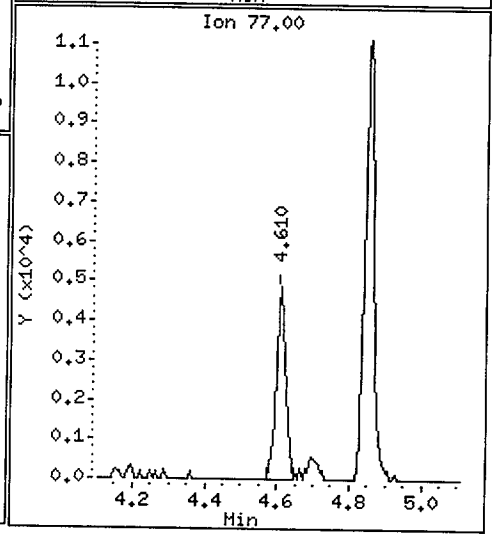


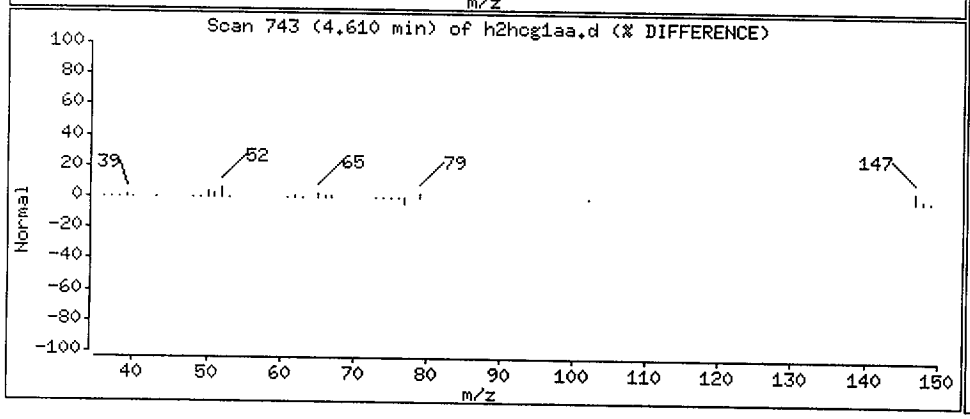












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

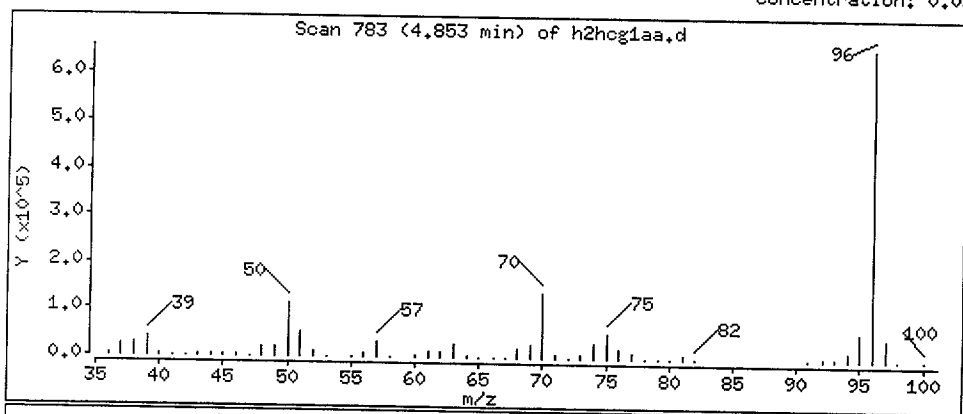
Operator: 22980

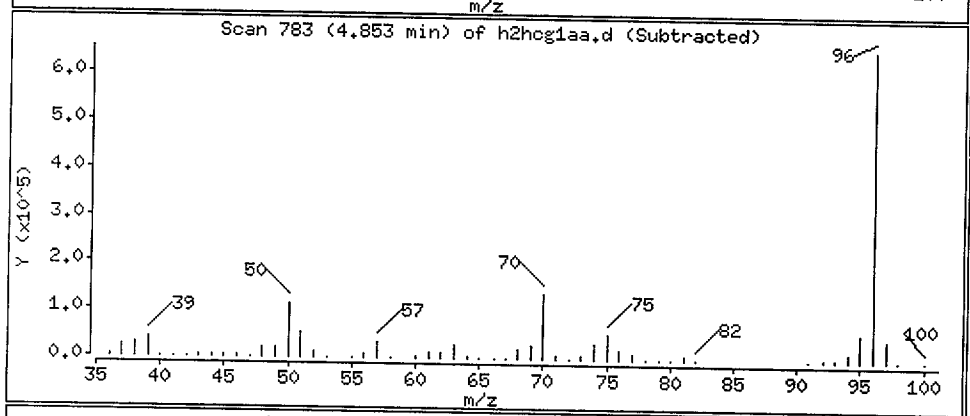
Column phase: J+W 624

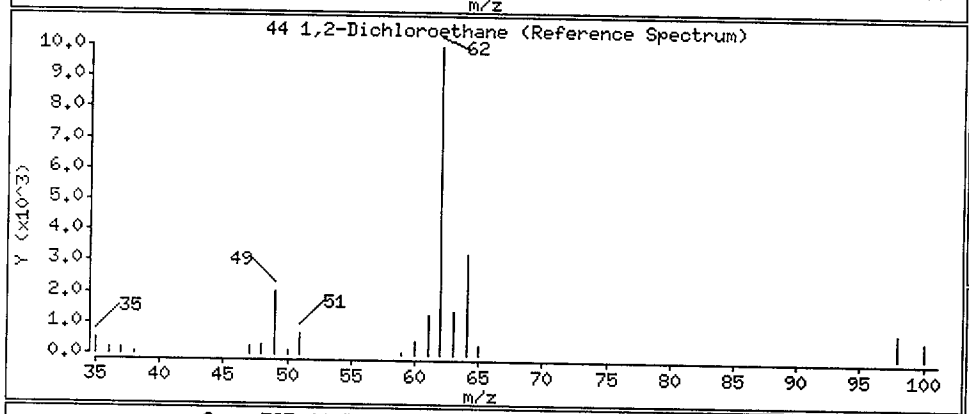
Column diameter: 0.18

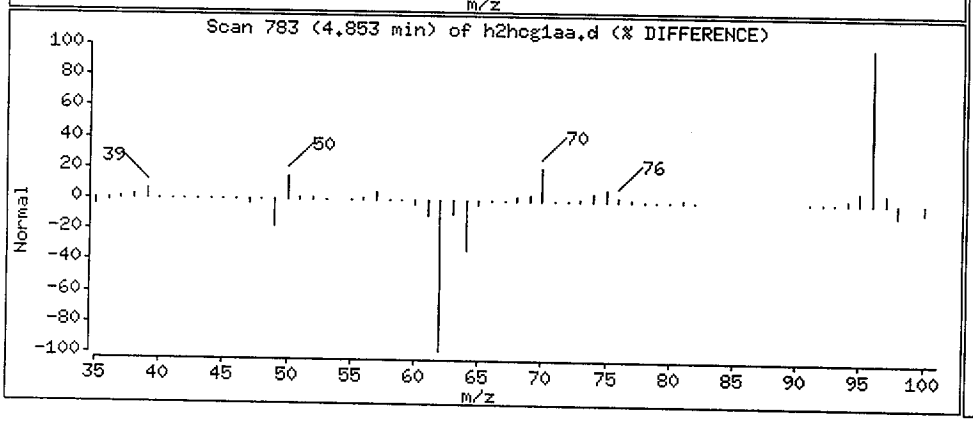
44 1,2-Dichloroethane

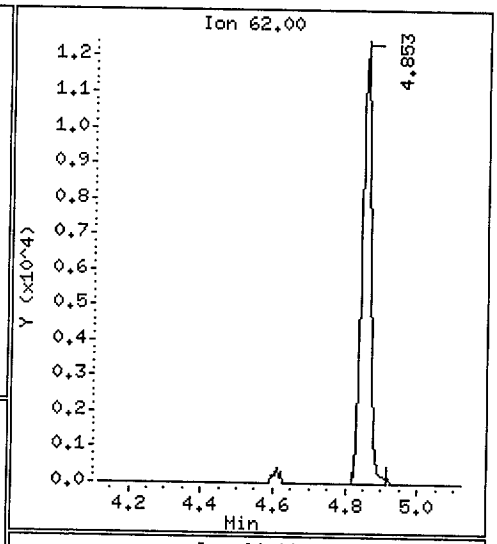
Concentration: 0.025698 ug

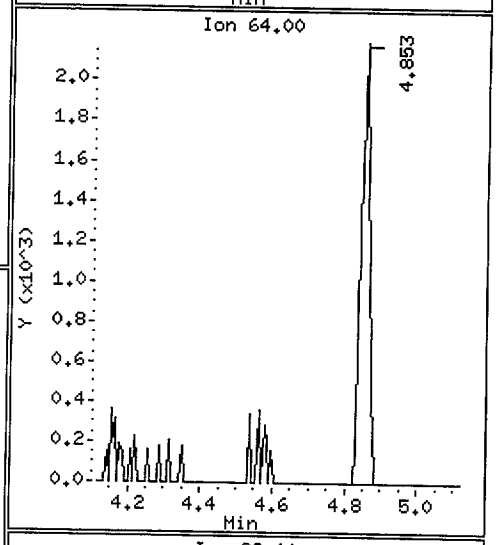


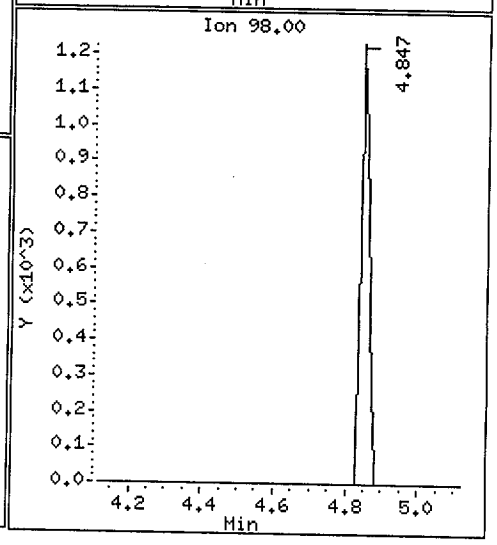












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

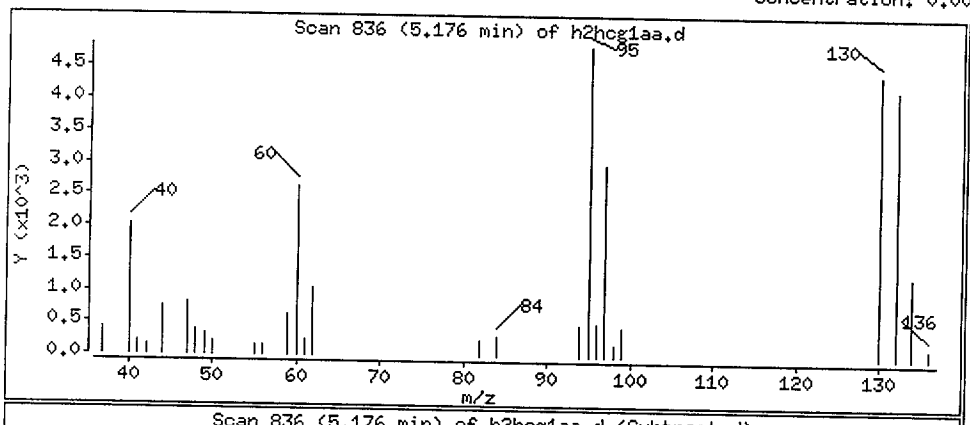
Operator: 22980

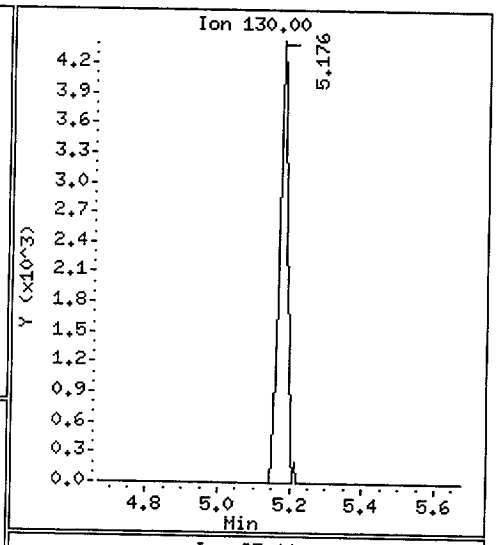
Column phase: J+W 624

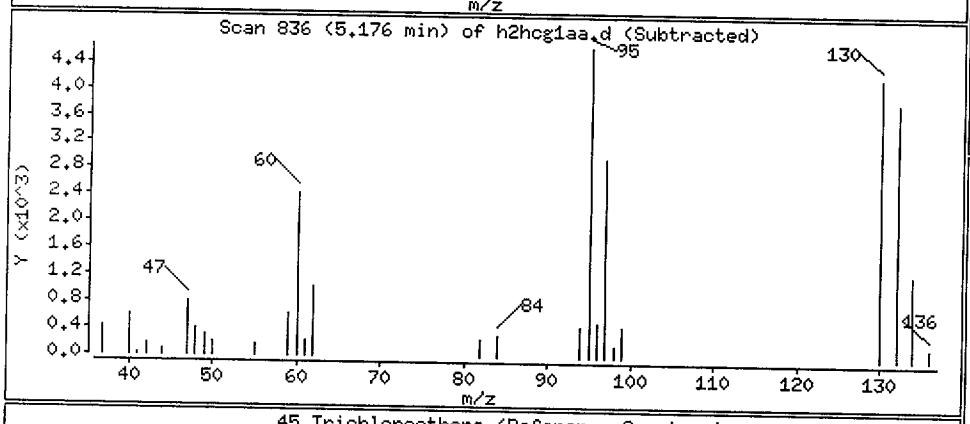
Column diameter: 0.18

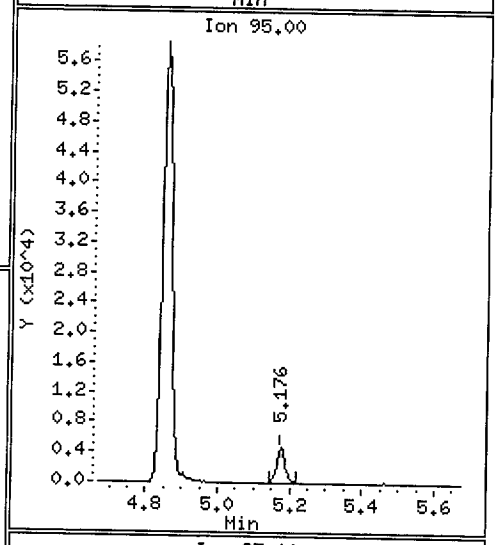
45 Trichloroethene

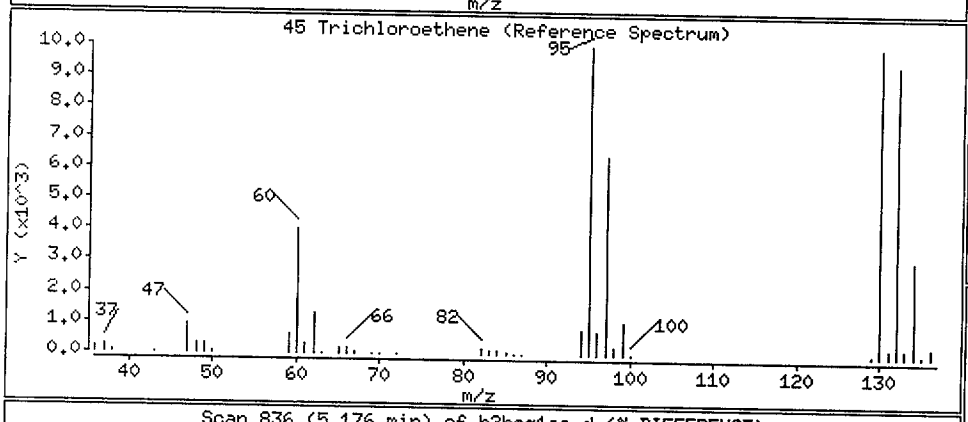
Concentration: 0.0057030 ug

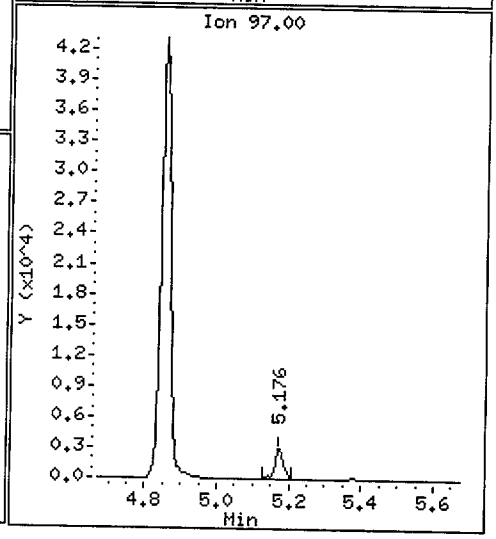


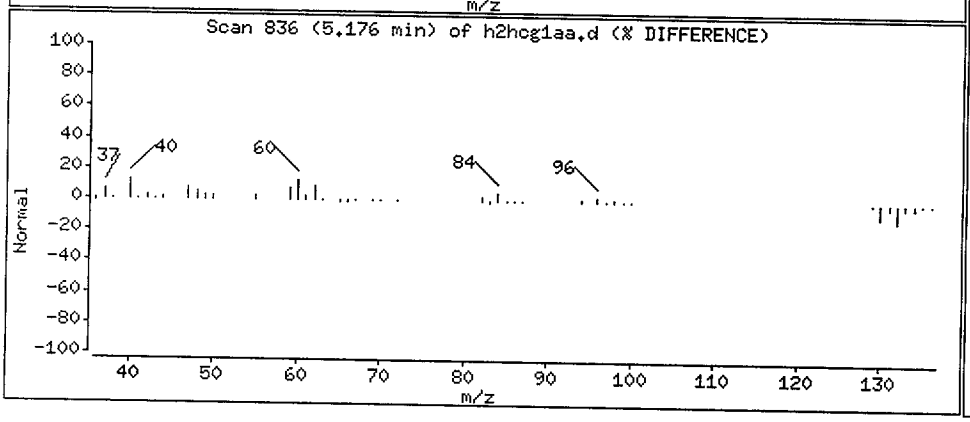












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

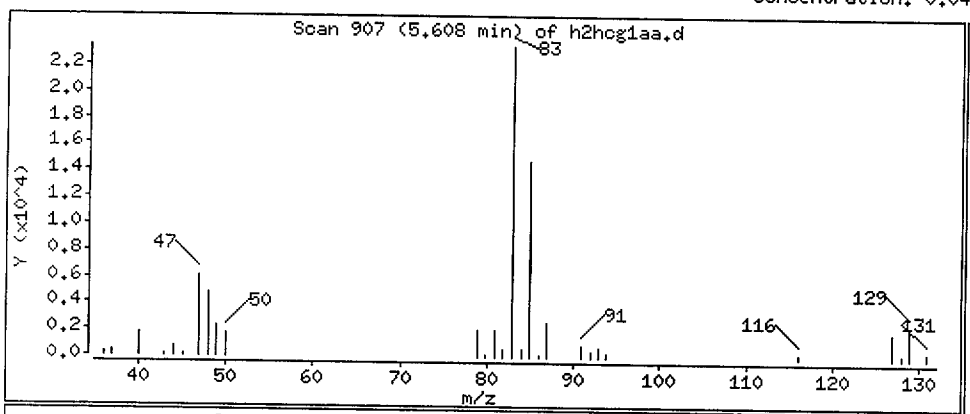
Operator: 22980

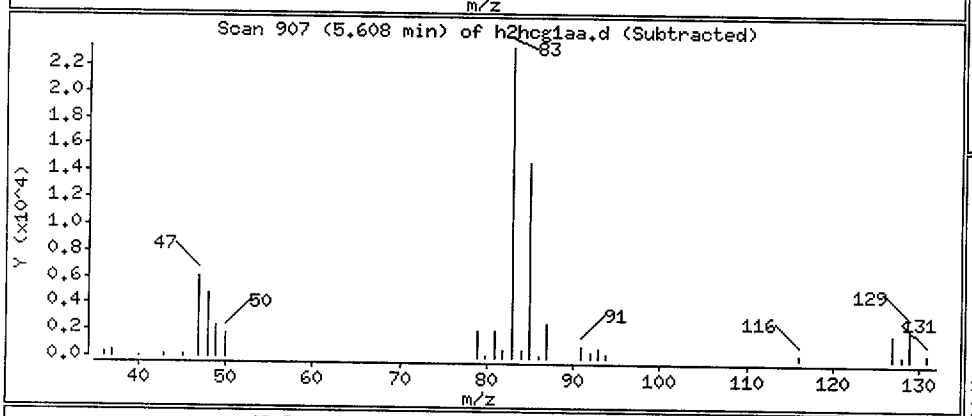
Column phase: J+W 624

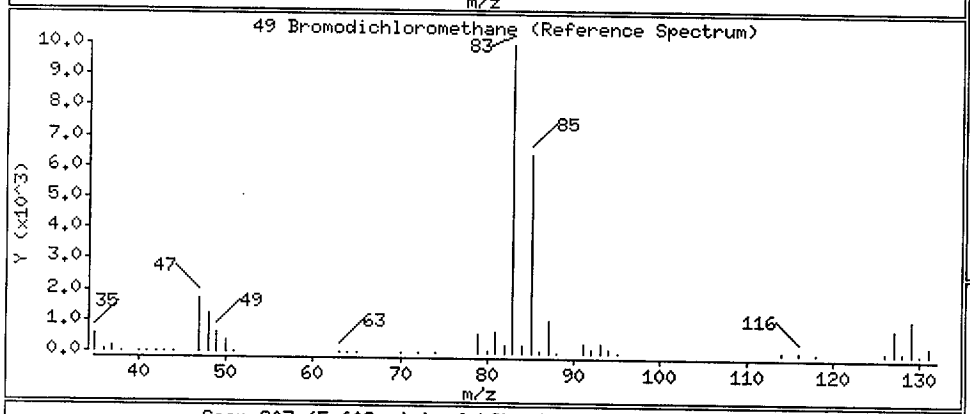
Column diameter: 0.18

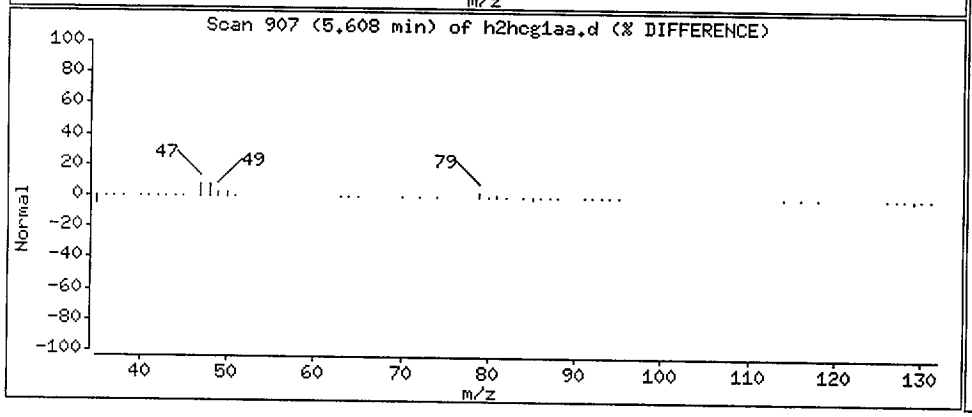
49 Bromodichloromethane

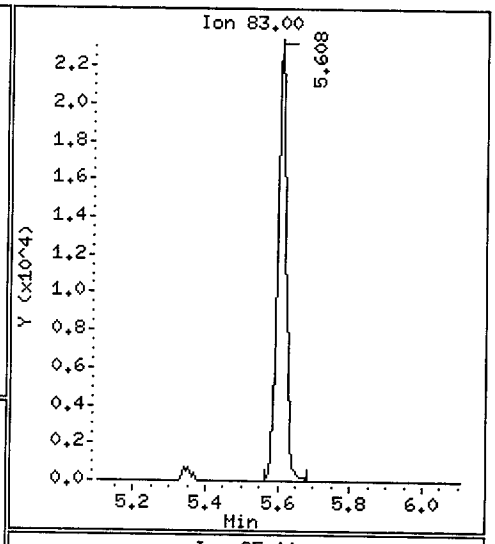
Concentration: 0.040699 ug

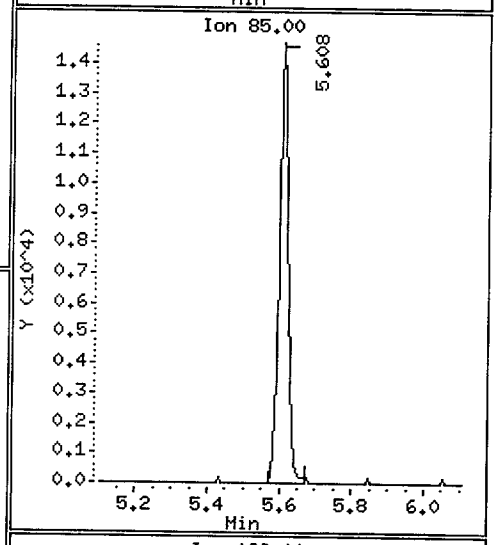


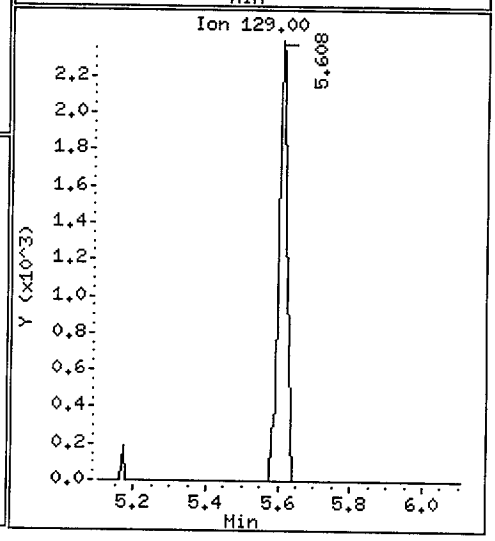












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

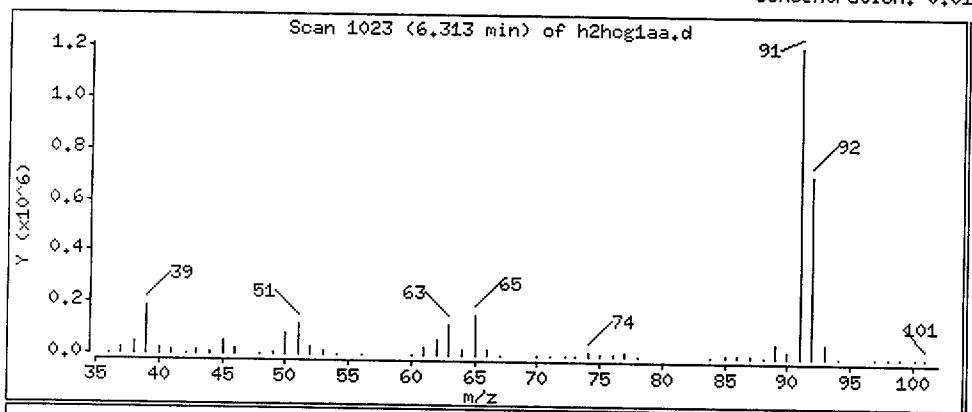
Operator: 22980

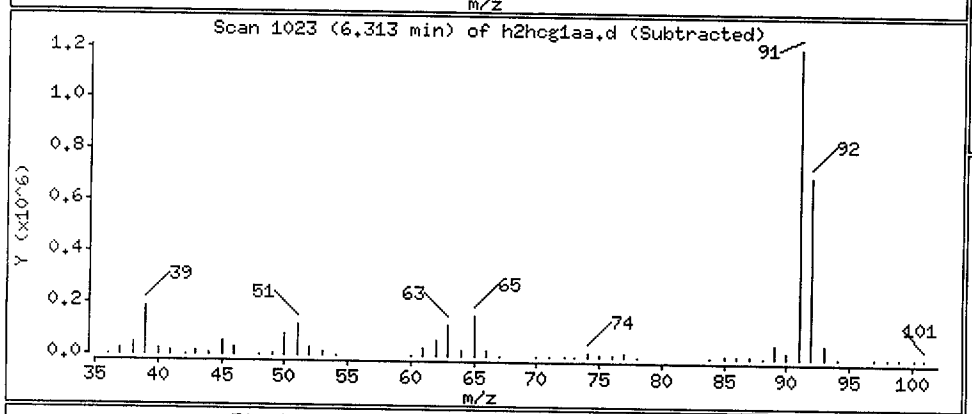
Column phase: J+W 624

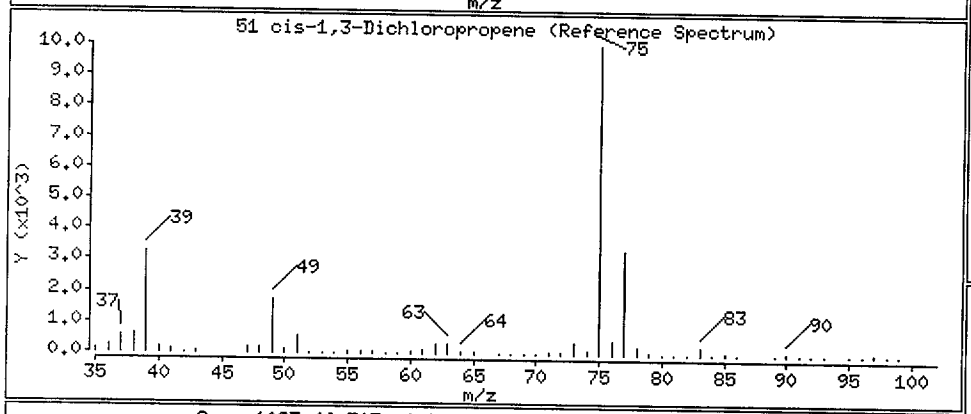
Column diameter: 0.18

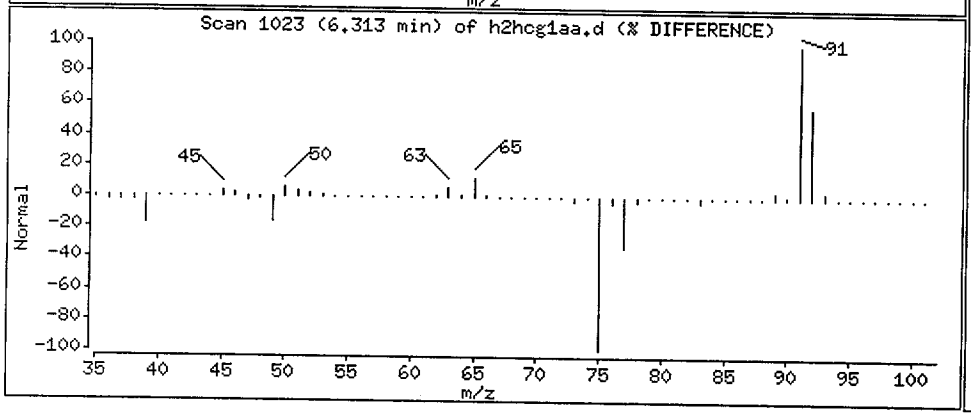
51 cis-1,3-Dichloropropene

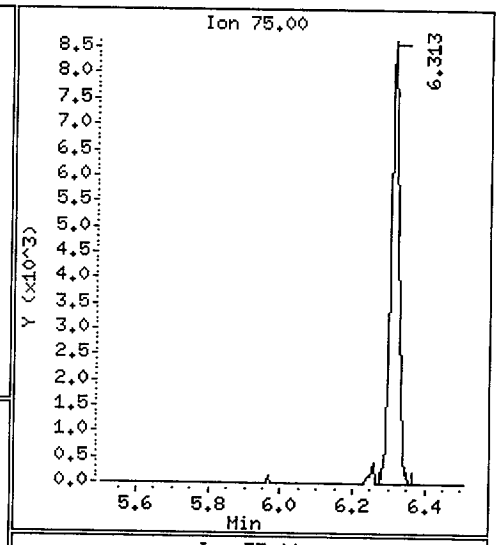
Concentration: 0.011704 ug

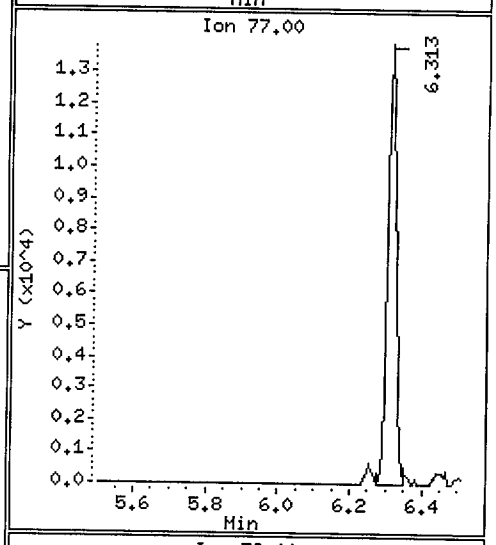


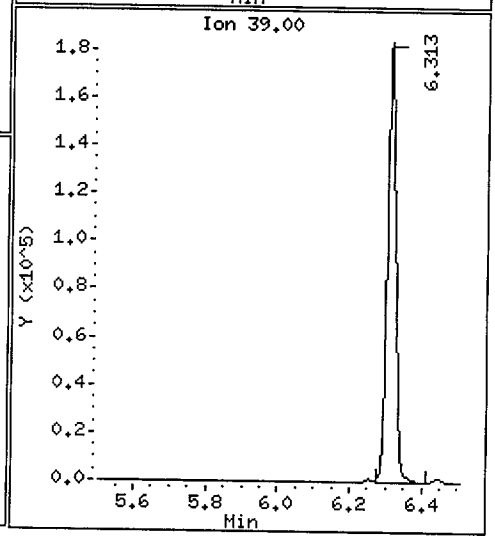












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

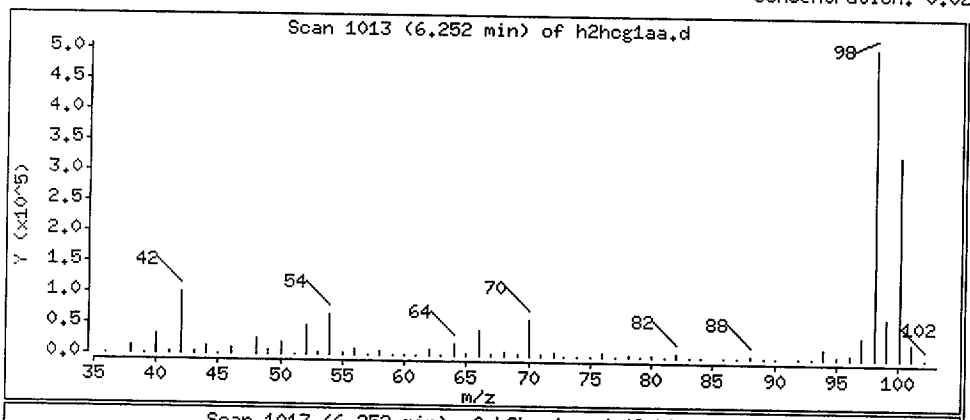
Operator: 22980

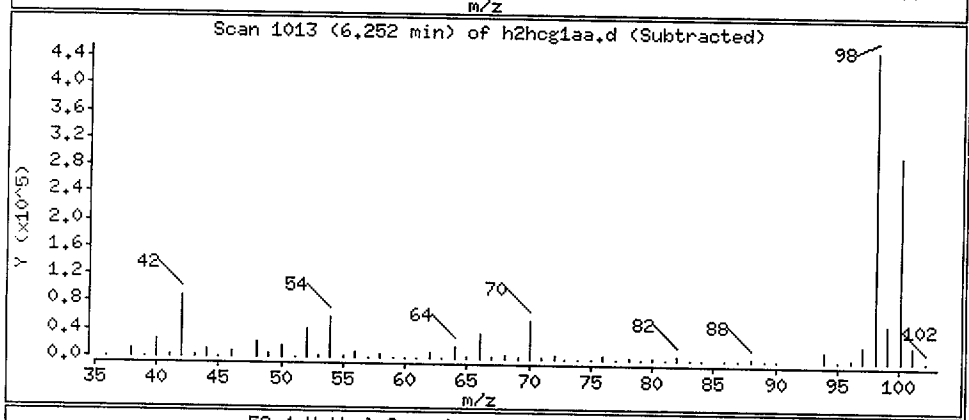
Column phase: J+W 624

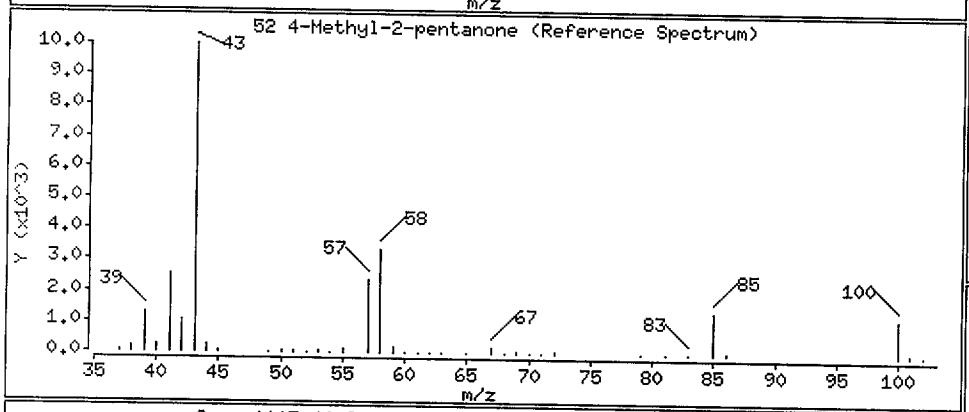
Column diameter: 0.18

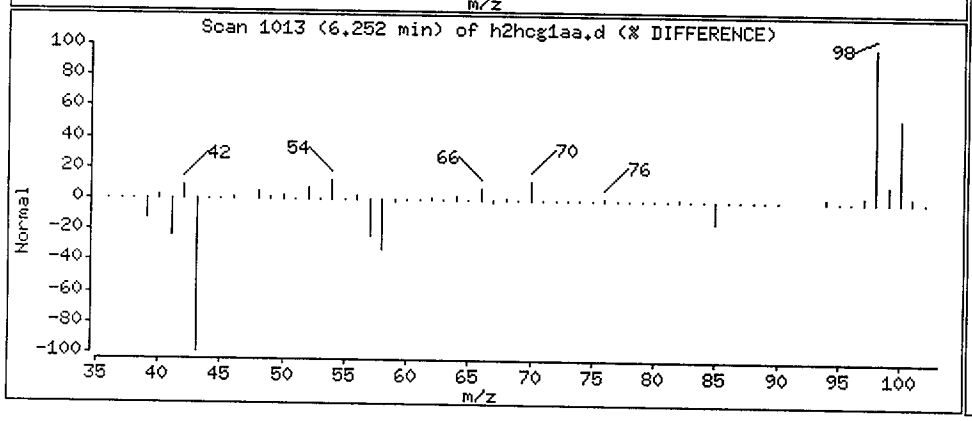
52 4-Methyl-2-pentanone

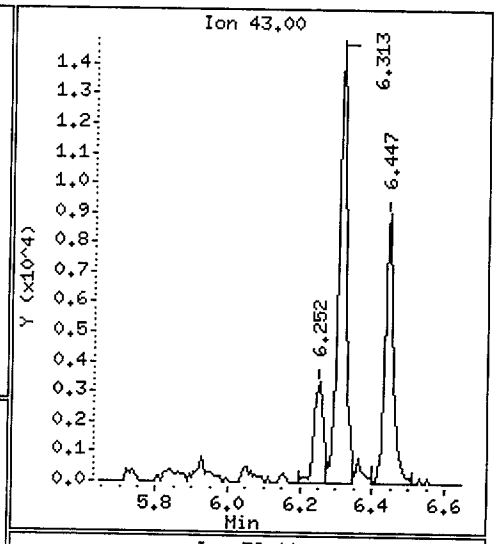
Concentration: 0.023376 ug

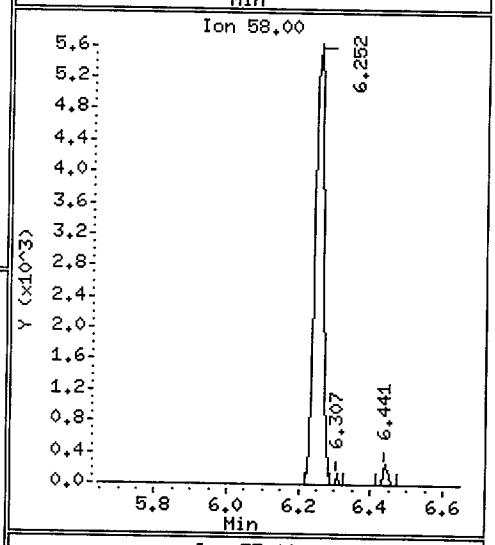


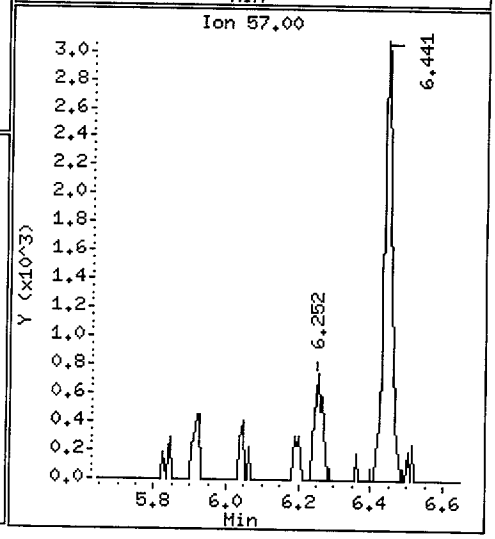












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

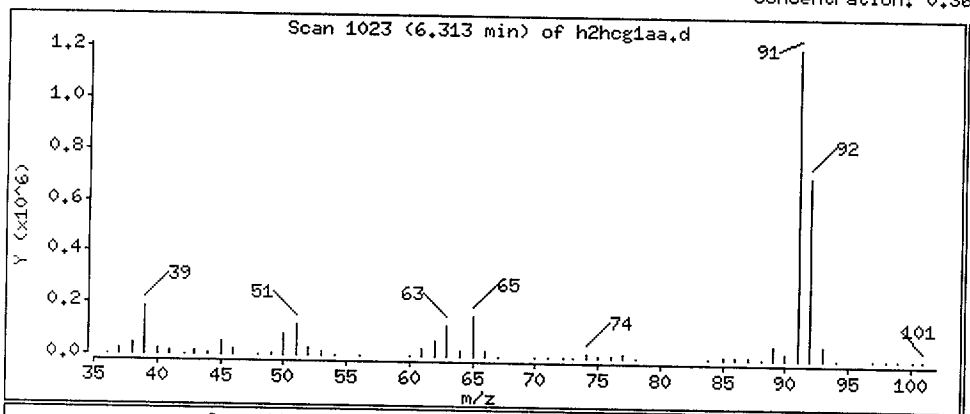
Operator: 22980

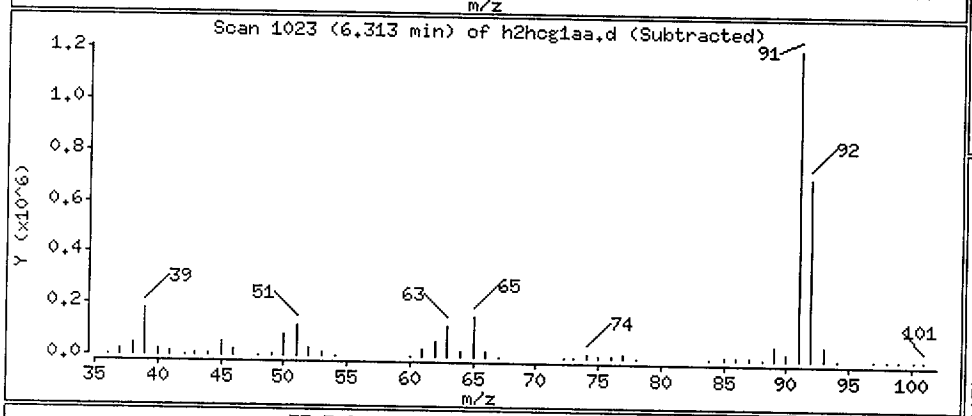
Column phase: J+W 624

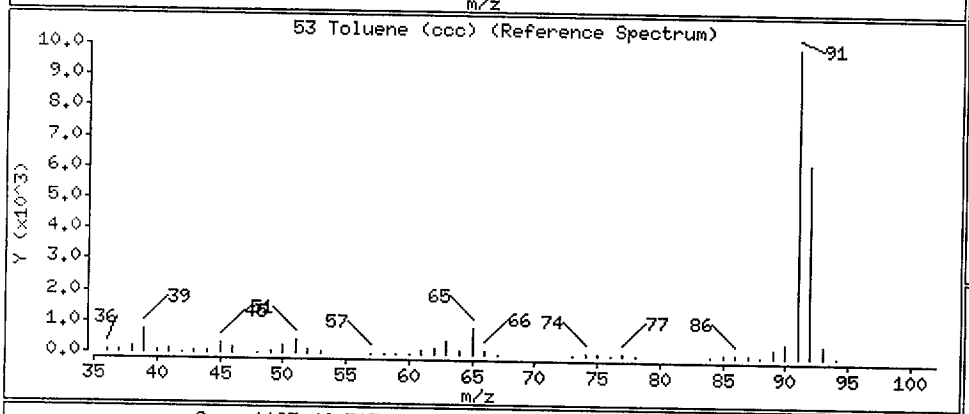
Column diameter: 0.18

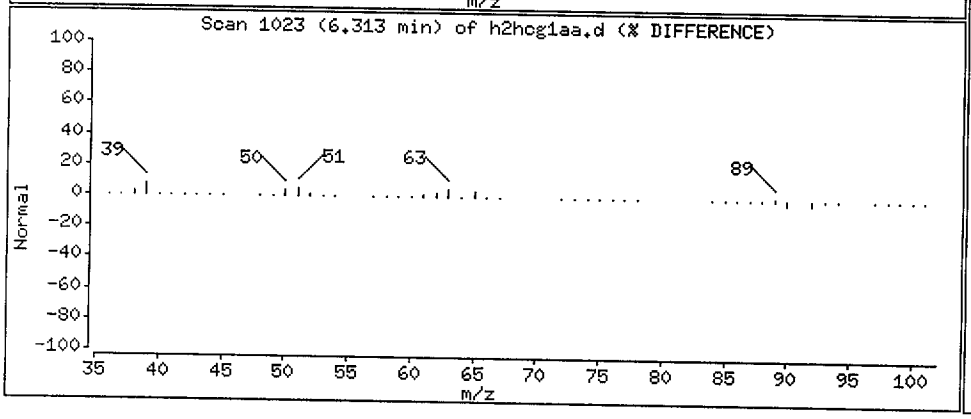
53 Toluene (ccc)

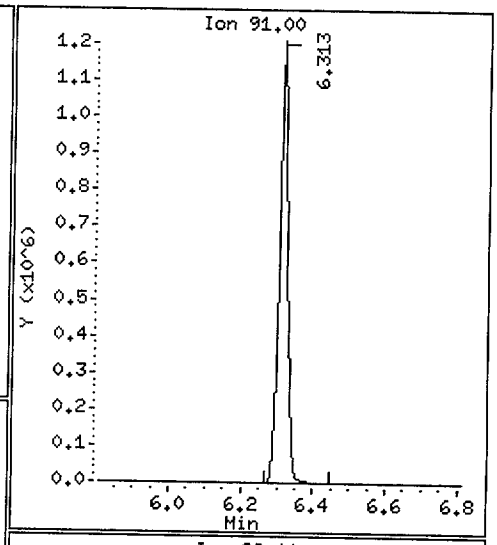
Concentration: 0.36784 ug

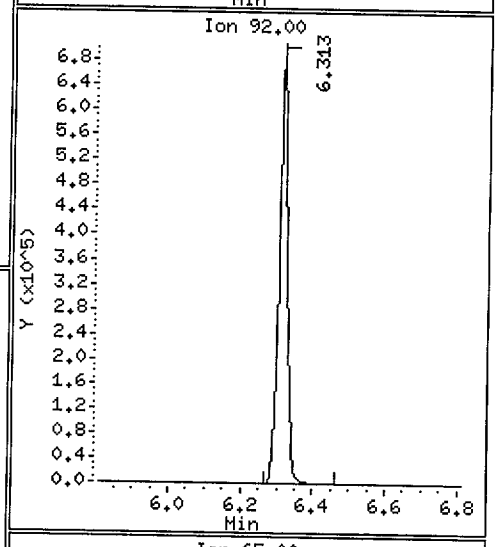


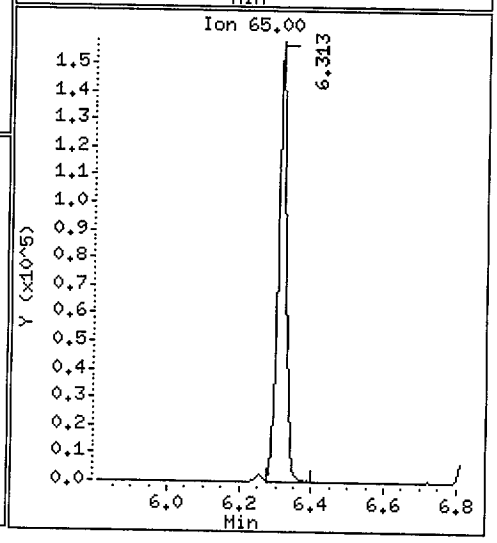












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

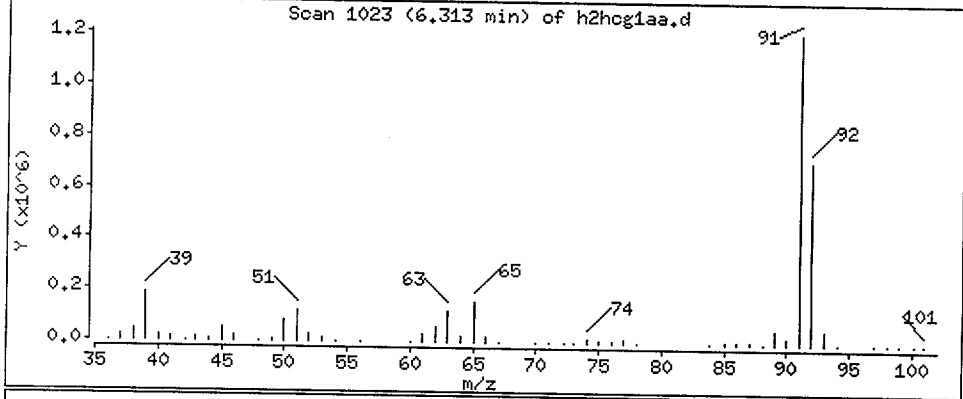
Operator: 22980

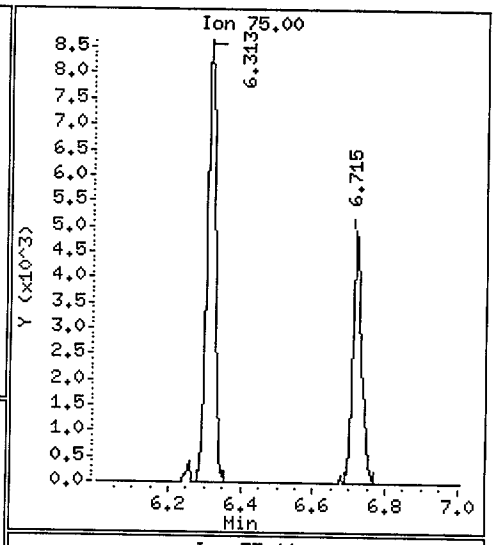
Column phase: J+W 624

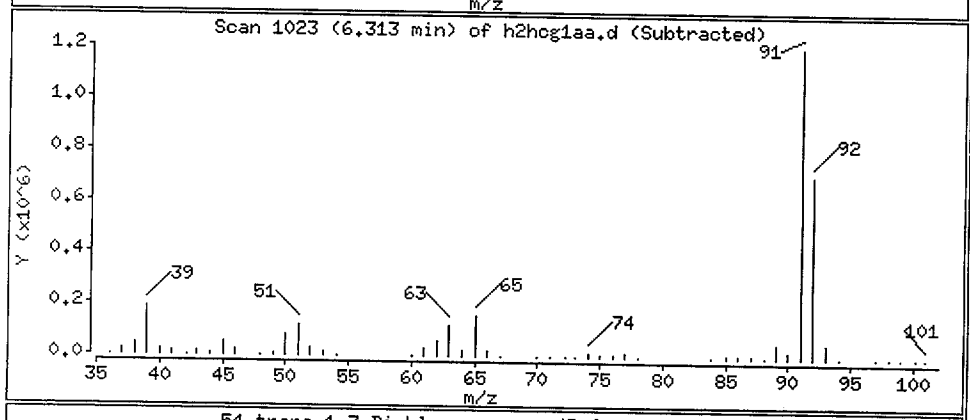
Column diameter: 0.18

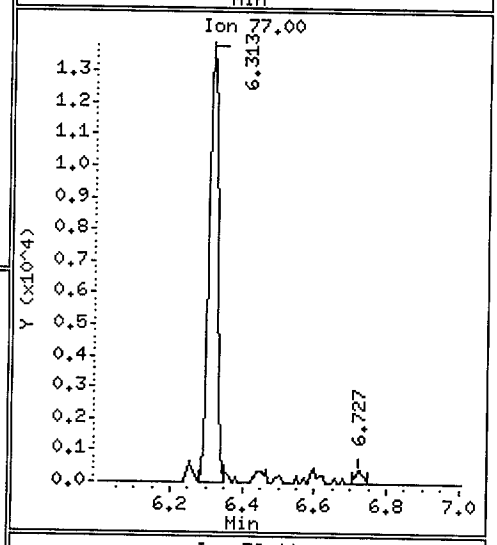
54 trans-1,3-Dichloropropene

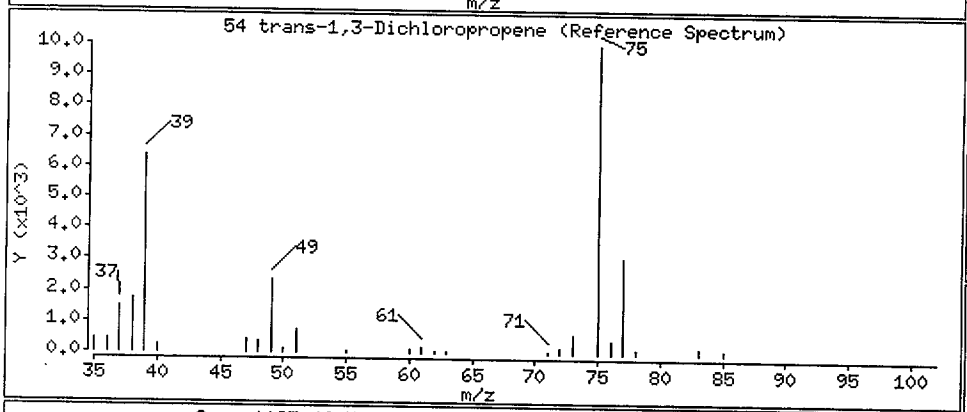
Concentration: 0.014389 ug

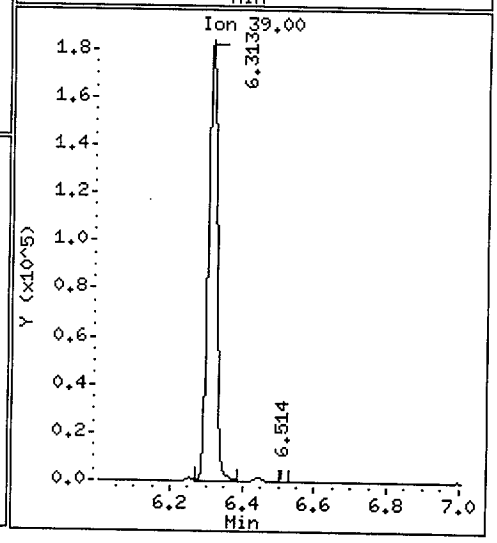


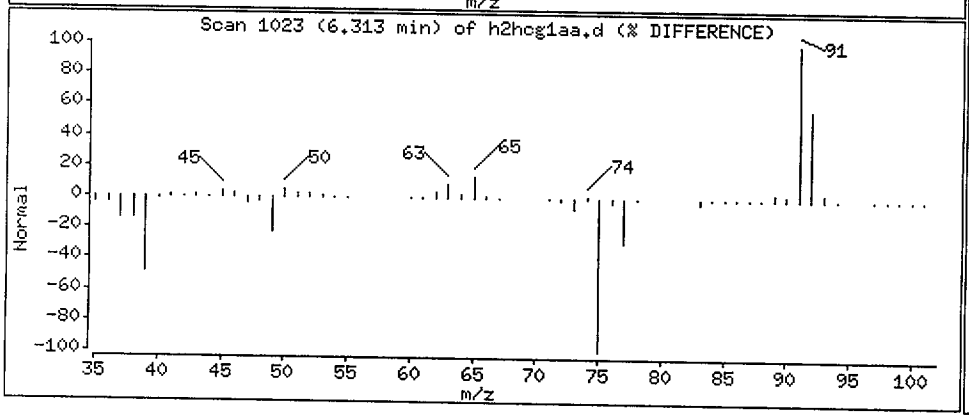












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

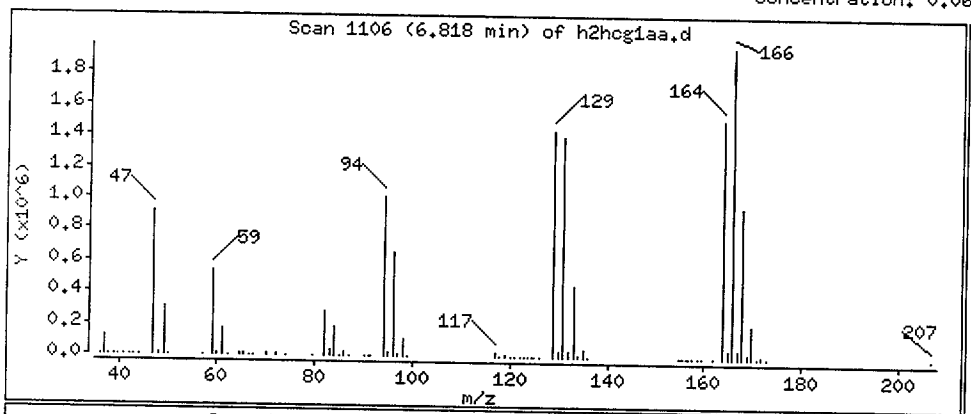
Operator: 22980

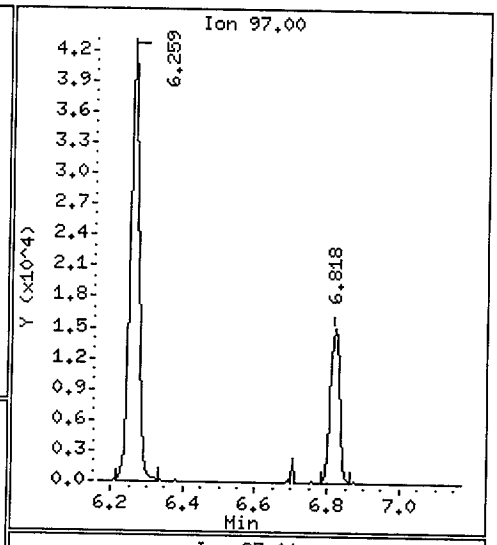
Column phase: J+W 624

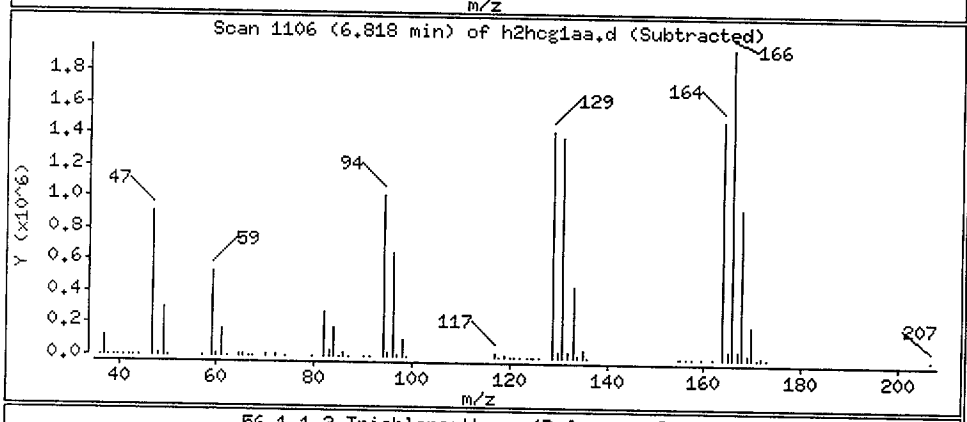
Column diameter: 0.18

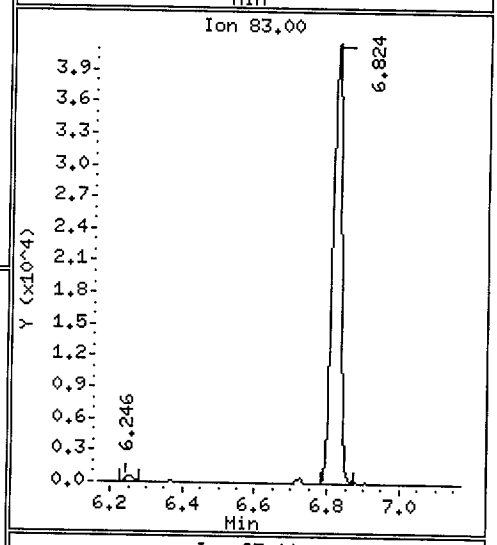
56 1,1,2-Trichloroethane

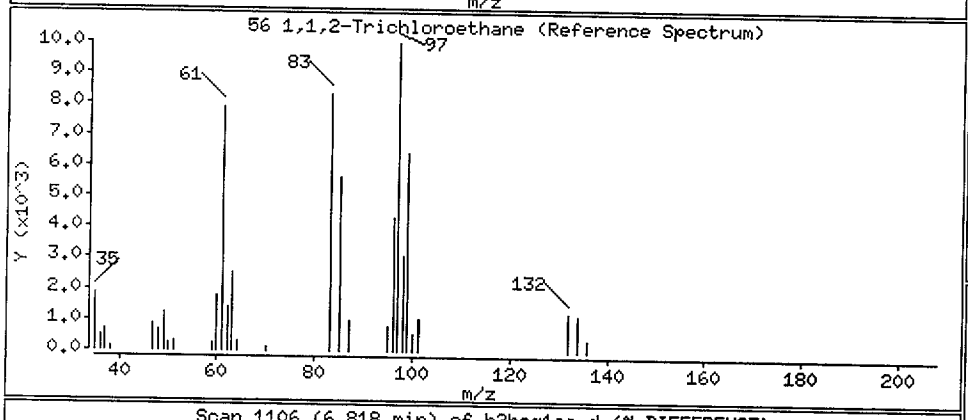
Concentration: 0.061646 ug

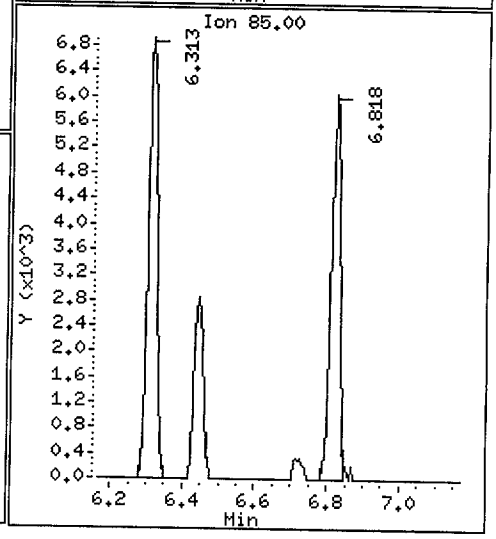


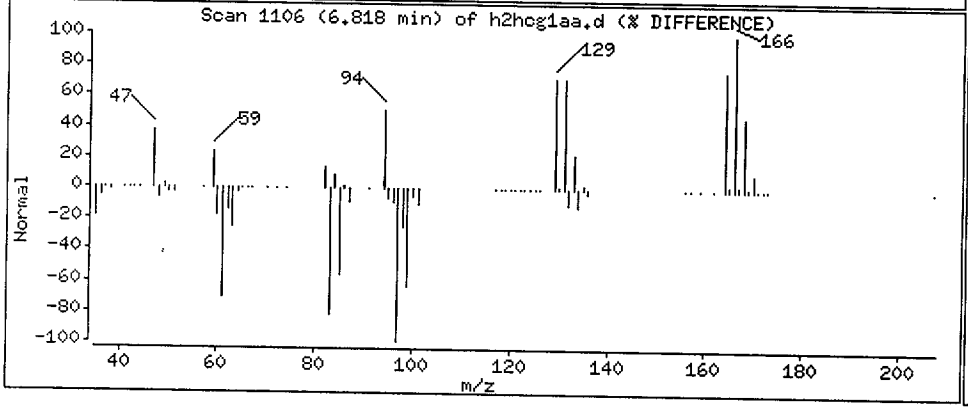












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

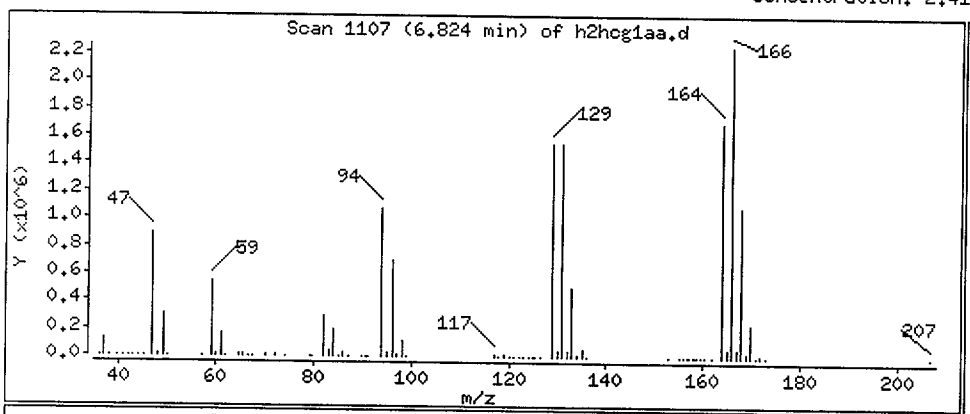
Operator: 22980

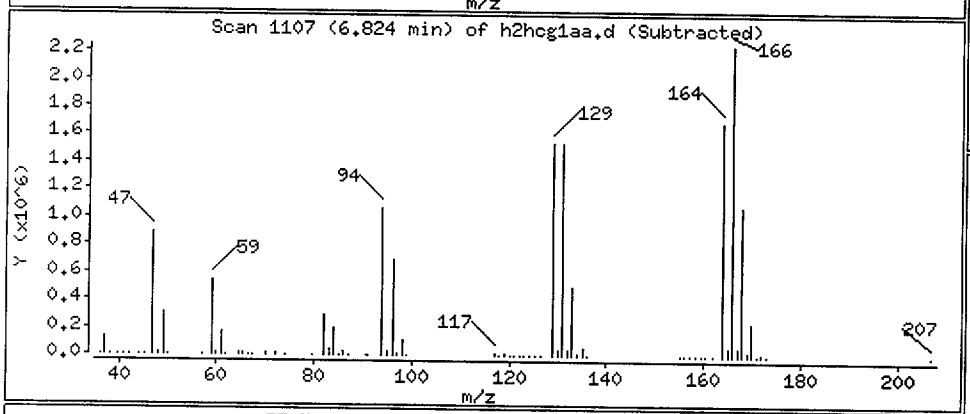
Column phase: J+W 624

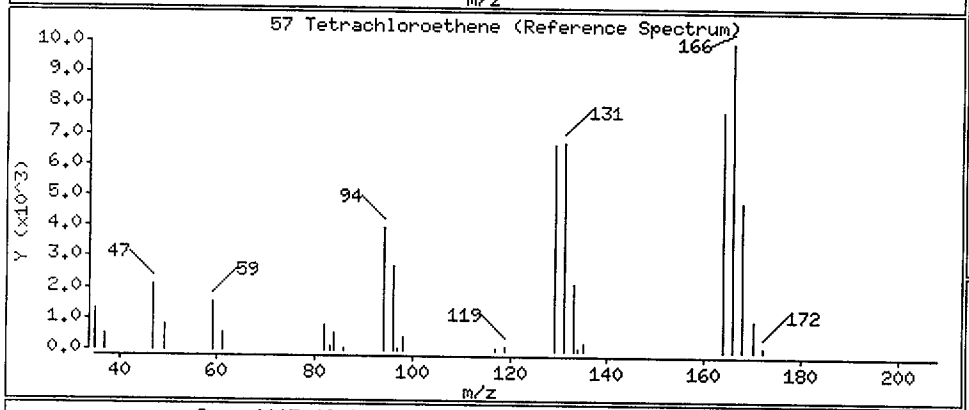
Column diameter: 0.18

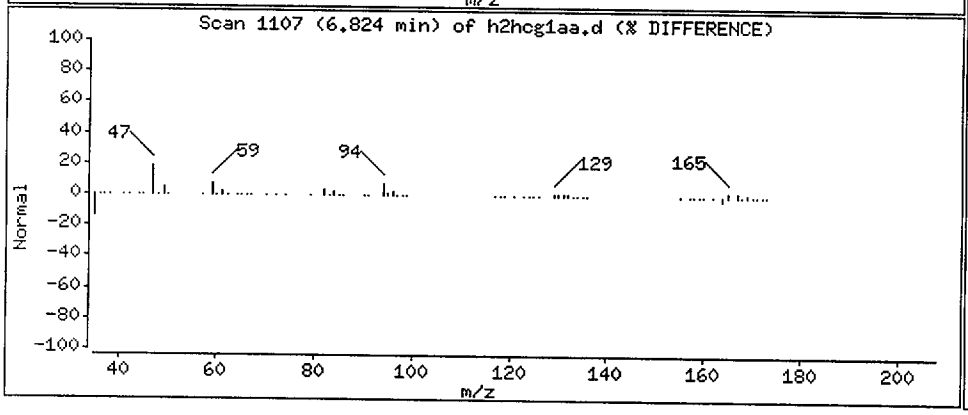
57 Tetrachloroethene

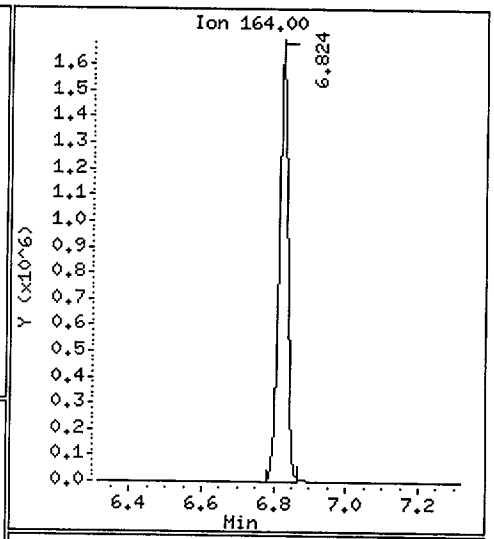
Concentration: 2.4133 ug

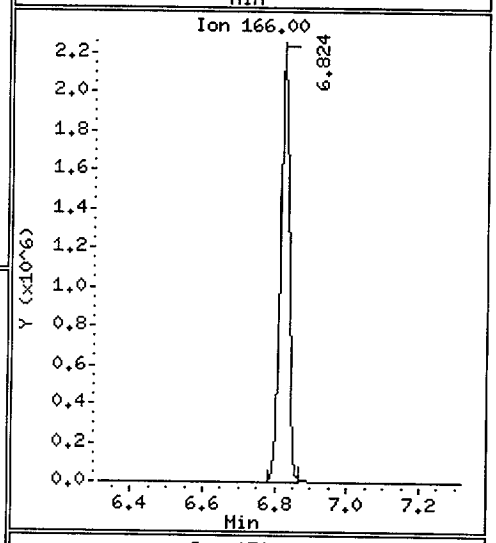


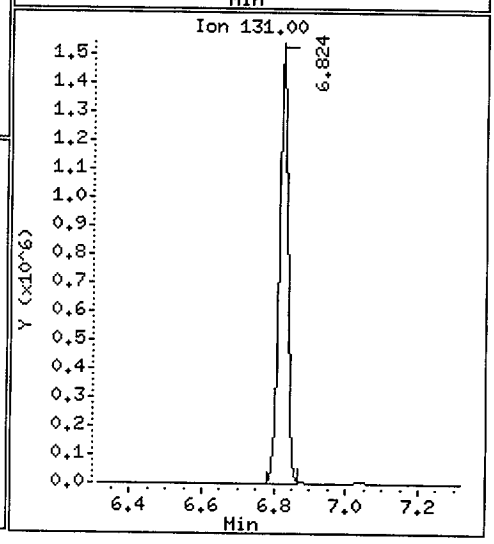












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

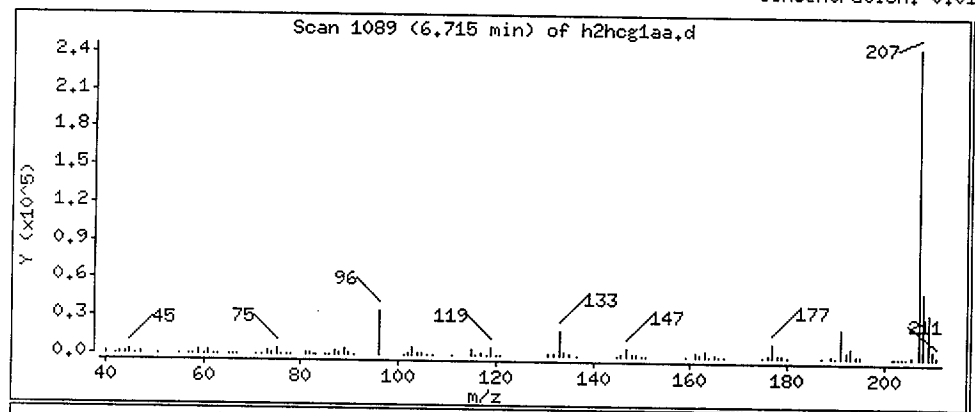
Operator: 22980

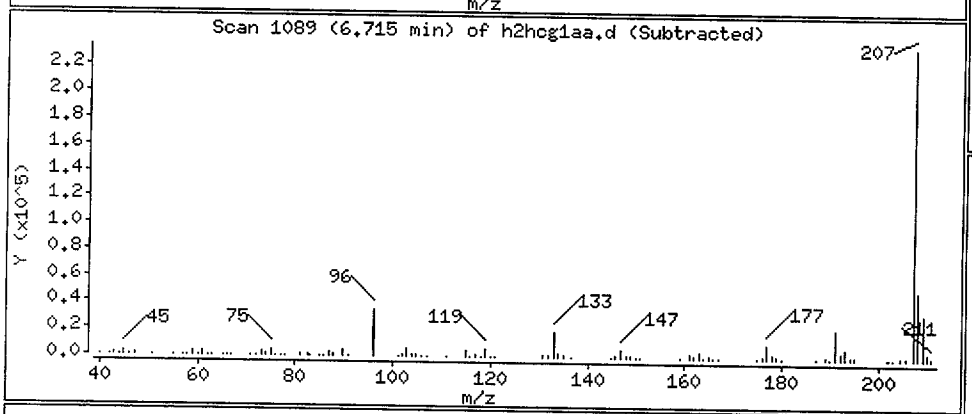
Column phase: J+W 624

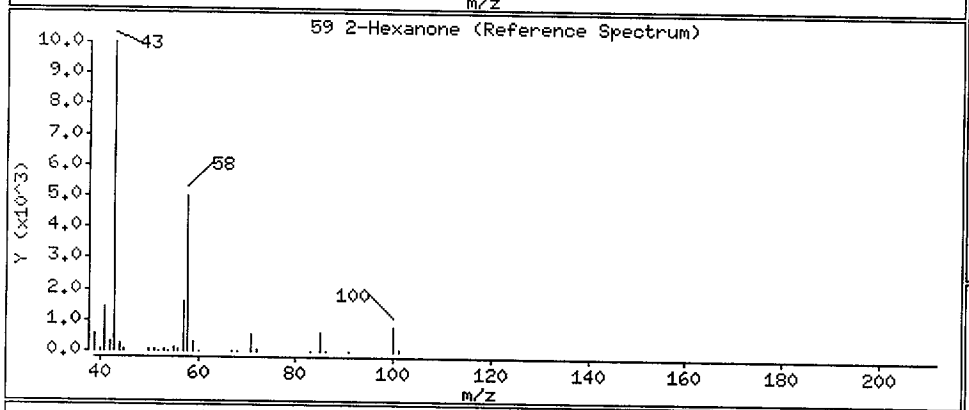
Column diameter: 0.18

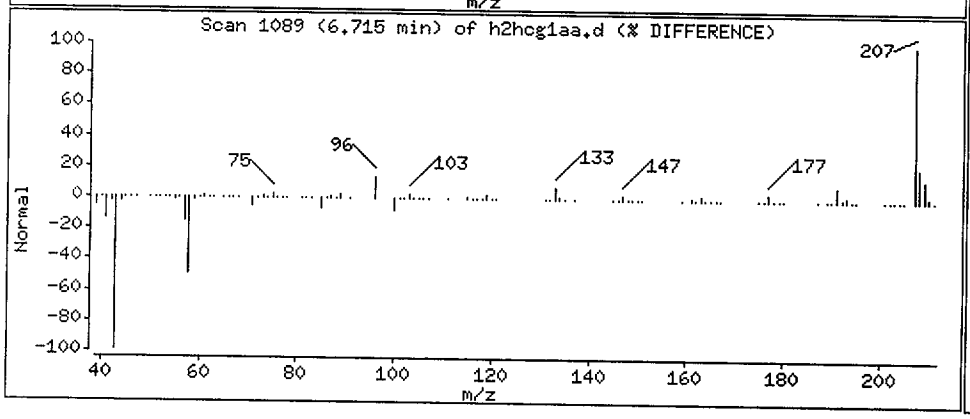
59 2-Hexanone

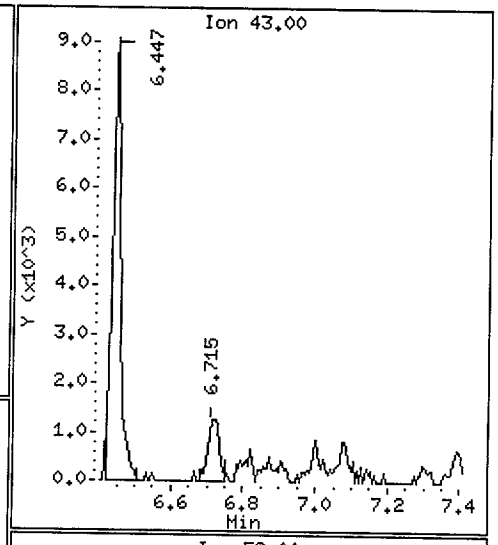
Concentration: 0.015293 ug

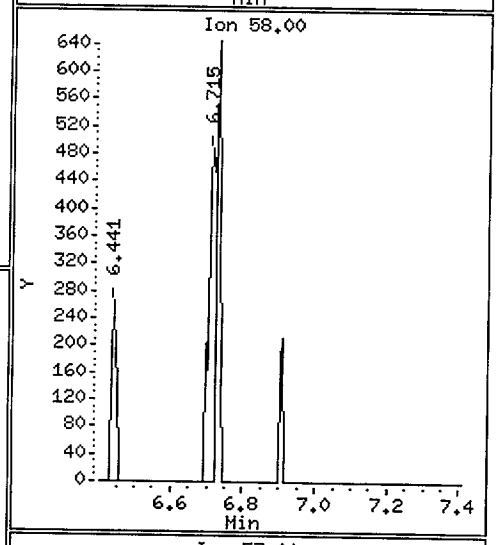


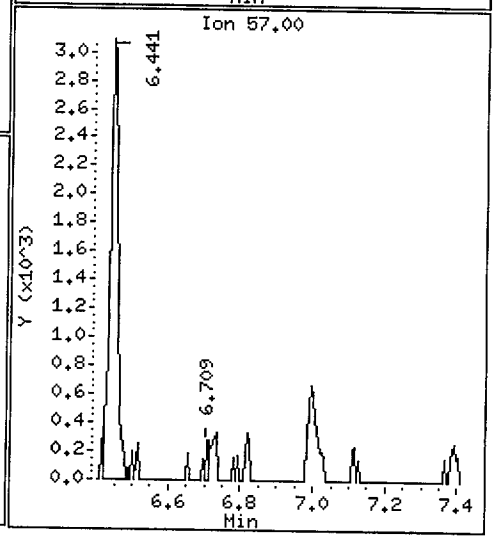












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

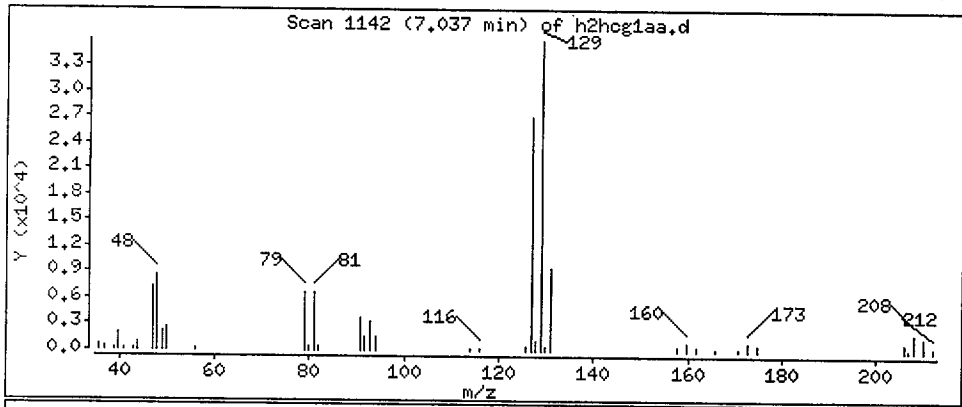
Operator: 22980

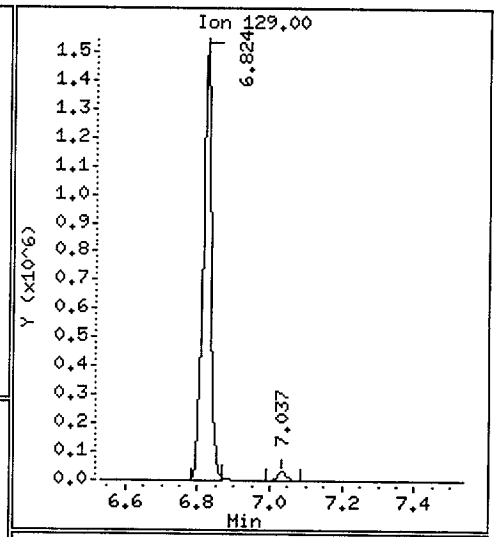
Column phase: J+W 624

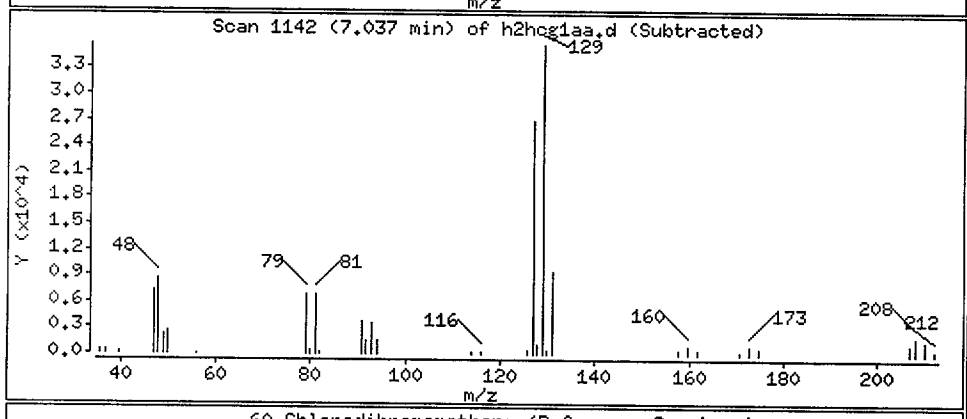
Column diameter: 0.18

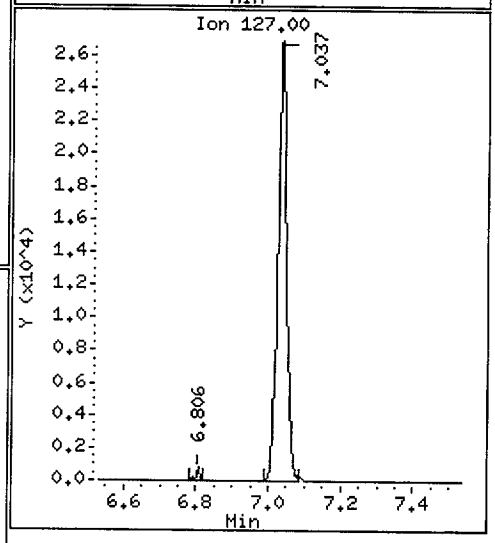
60 Chlorodibromomethane

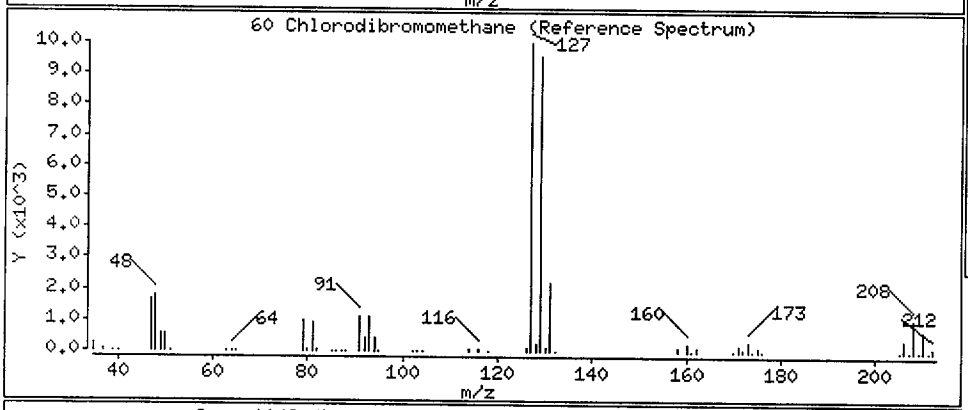
Concentration: 0.11577 ug

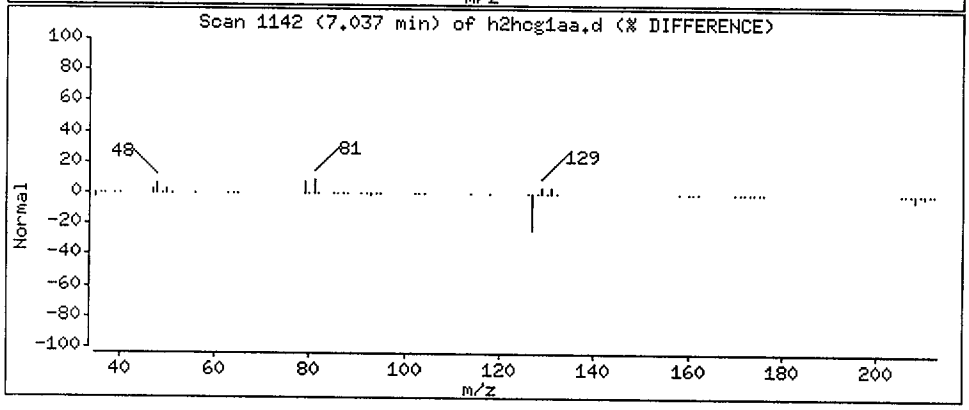












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

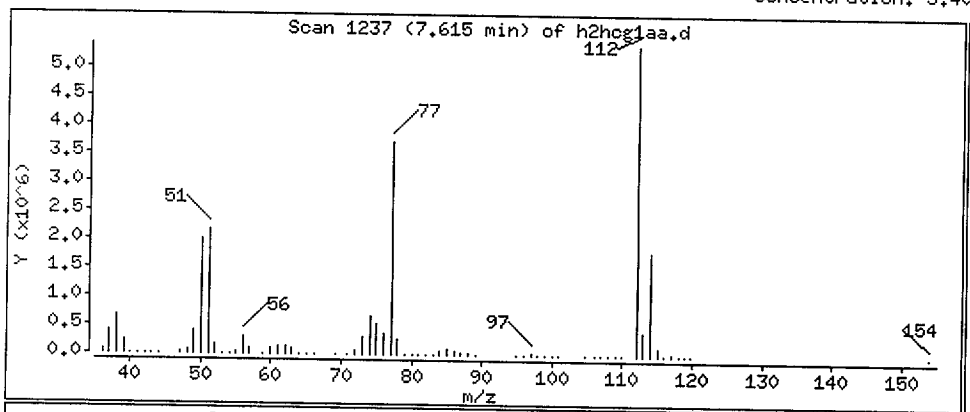
Operator: 22980

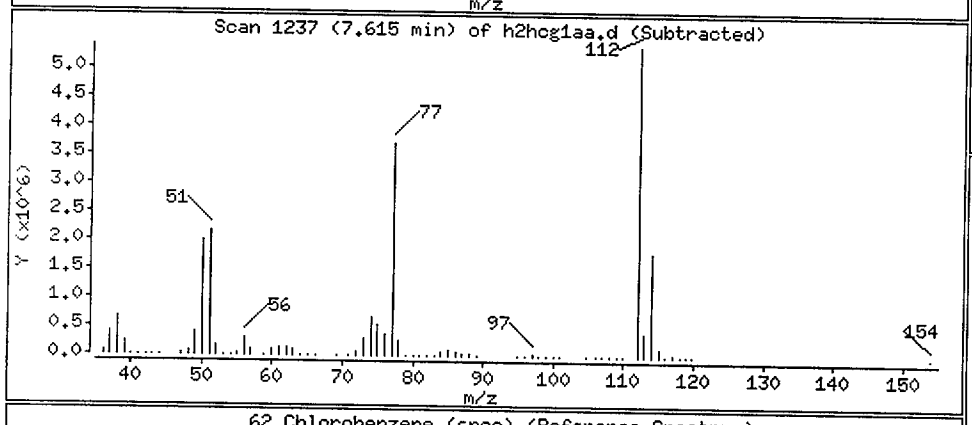
Column phase: J+W 624

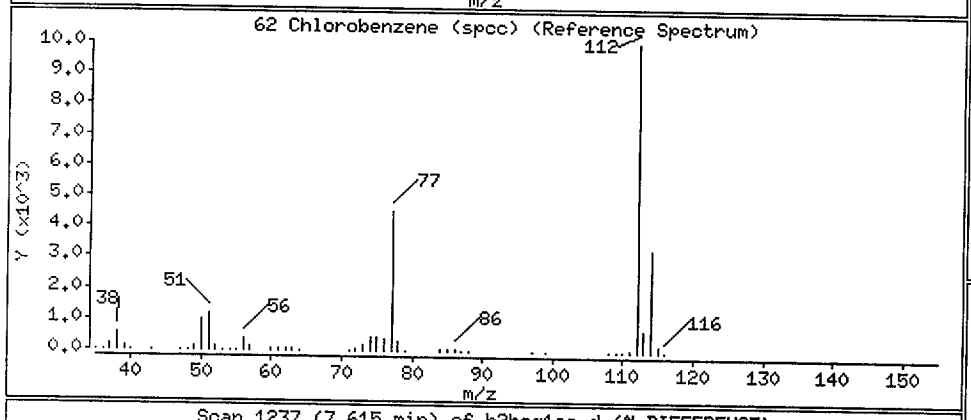
Column diameter: 0.18

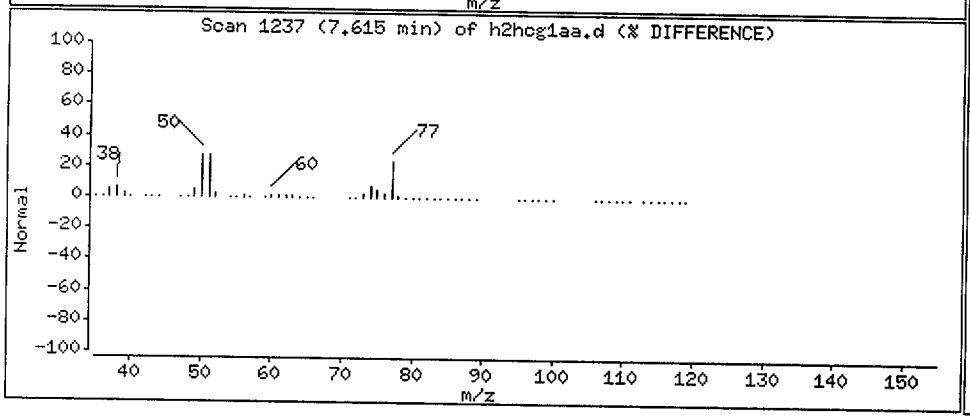
62 Chlorobenzene (spcc)

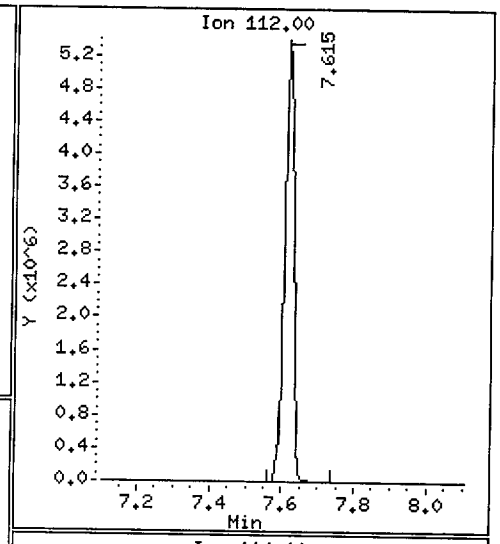
Concentration: 3.4067 ug

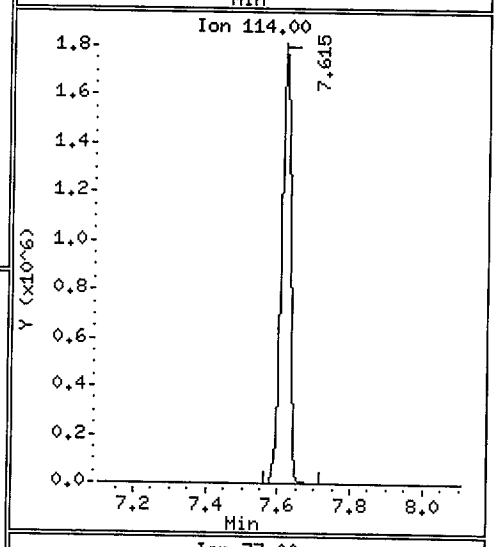


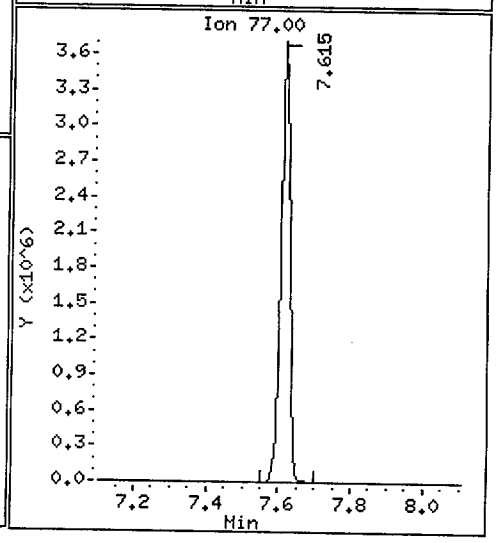












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

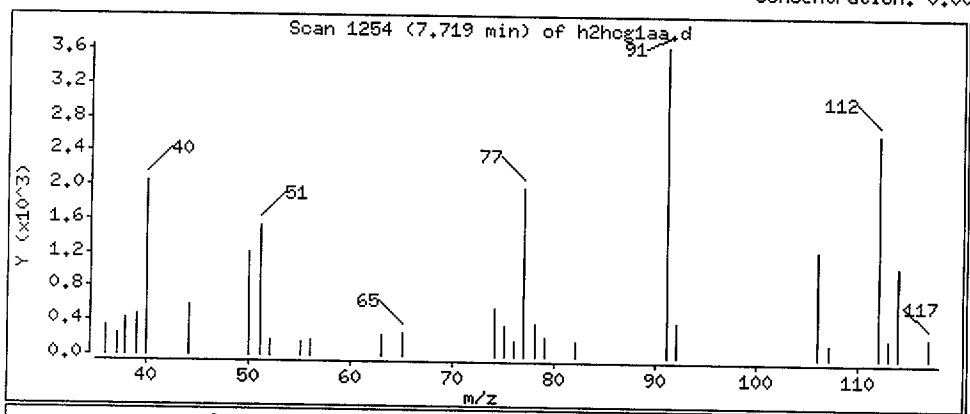
Operator: 22980

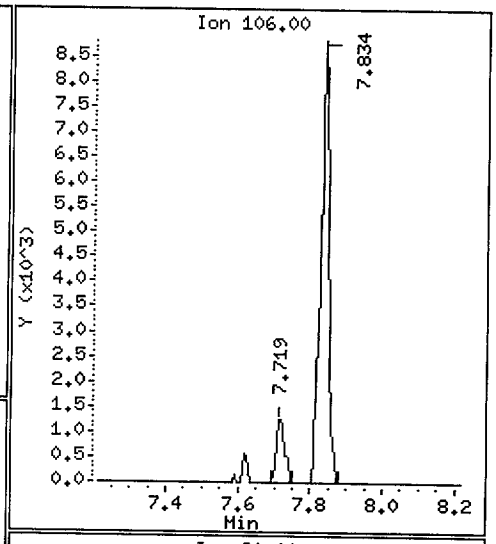
Column phase: J+W 624

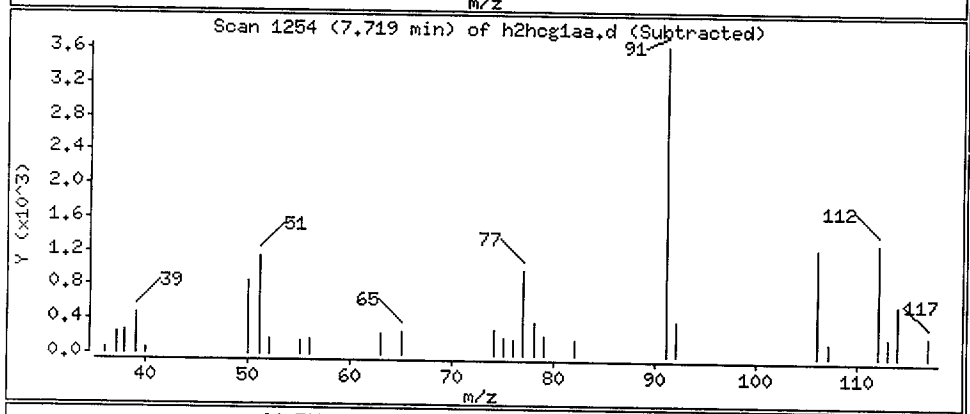
Column diameter: 0.18

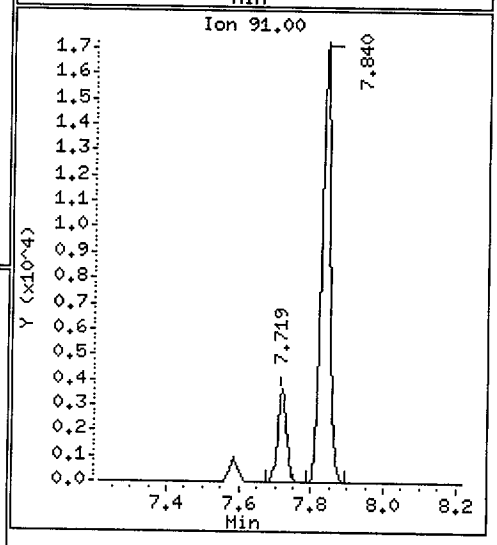
64 Ethylbenzene (ccc)

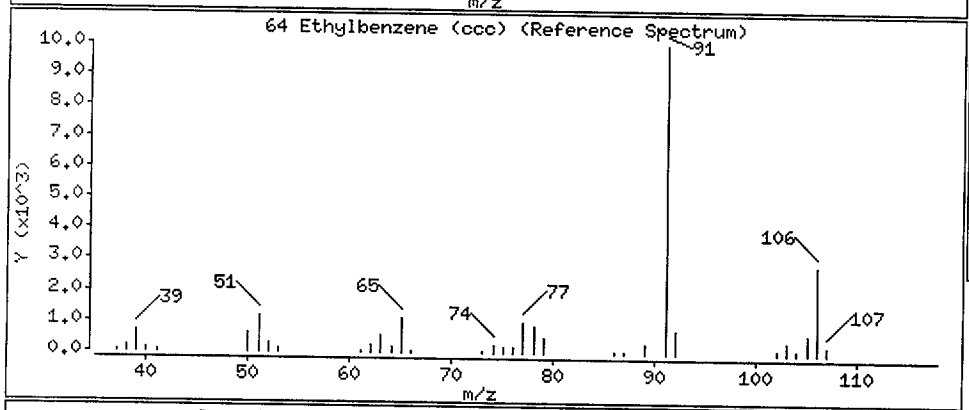
Concentration: 0.0011237 ug

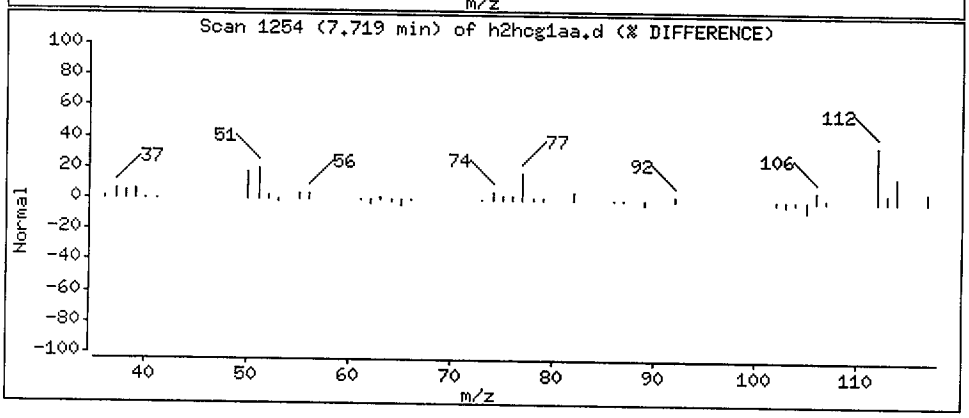












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

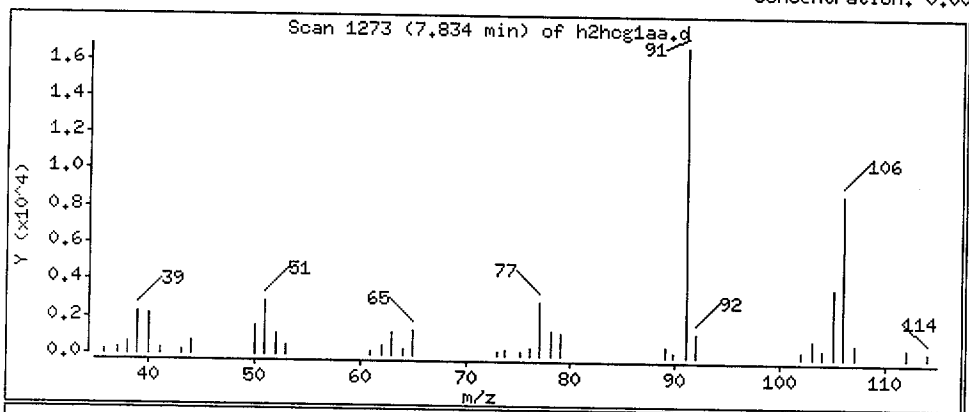
Operator: 22980

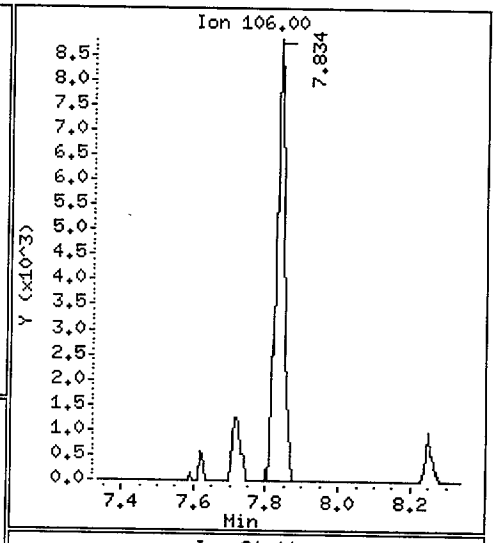
Column phase: J+W 624

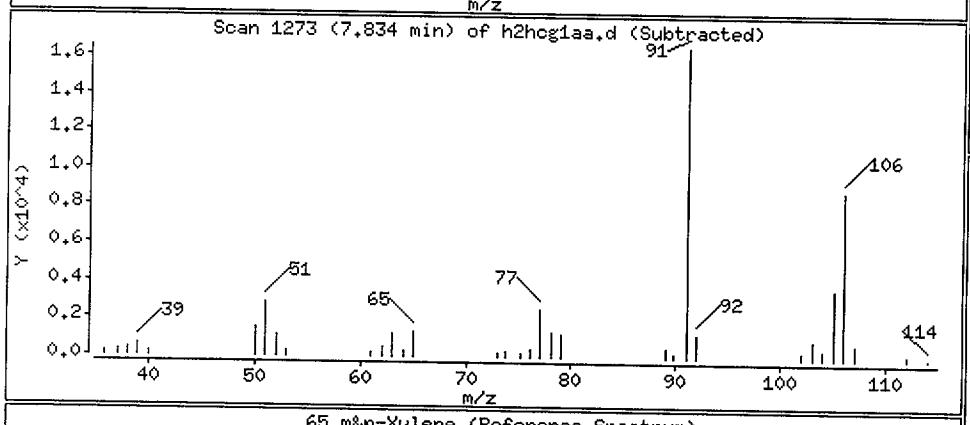
Column diameter: 0.18

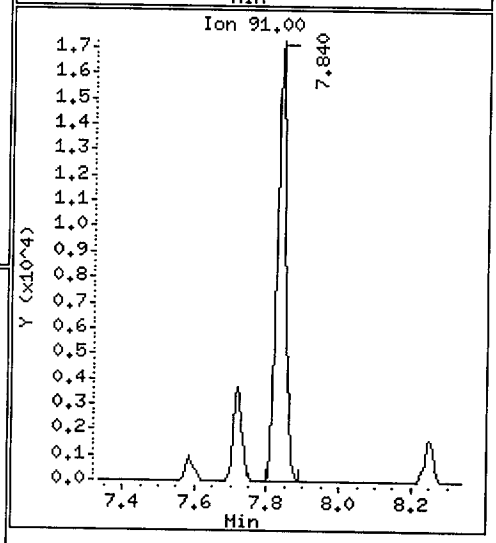
65 m&p-Xylene

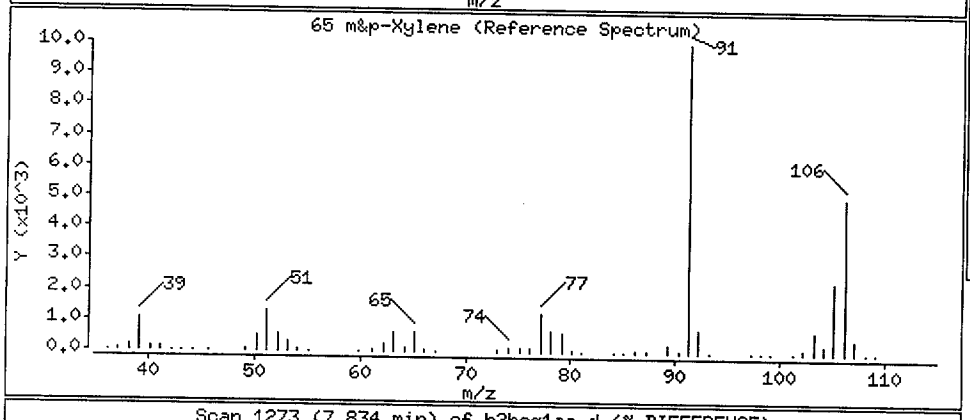
Concentration: 0.0065116 ug

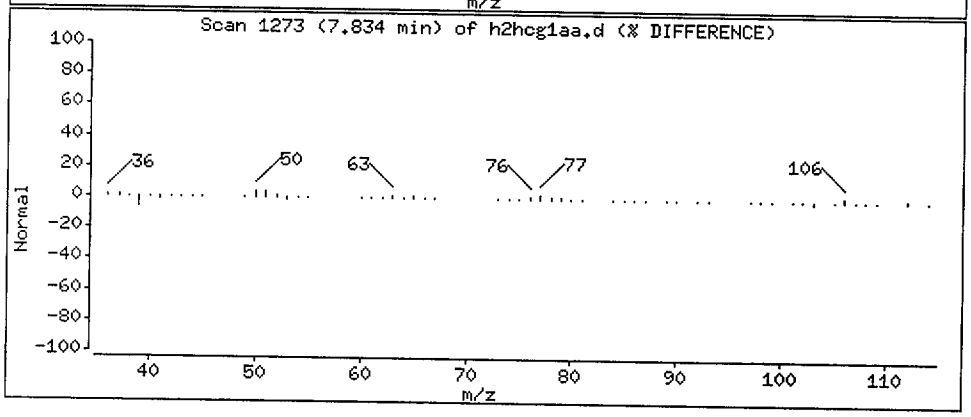












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

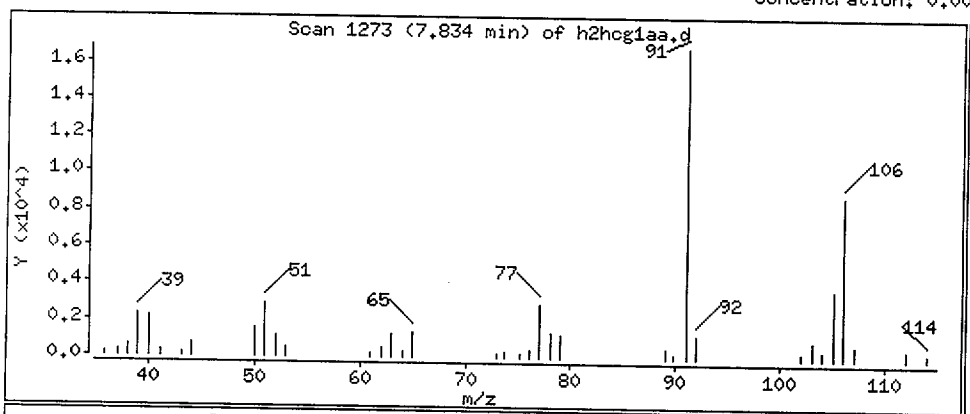
Operator: 22980

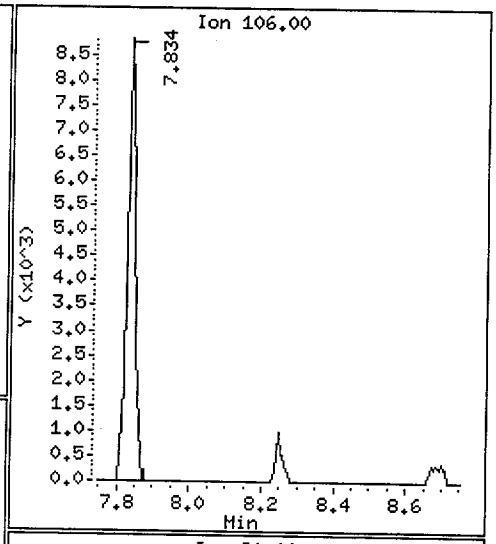
Column phase: J+W 624

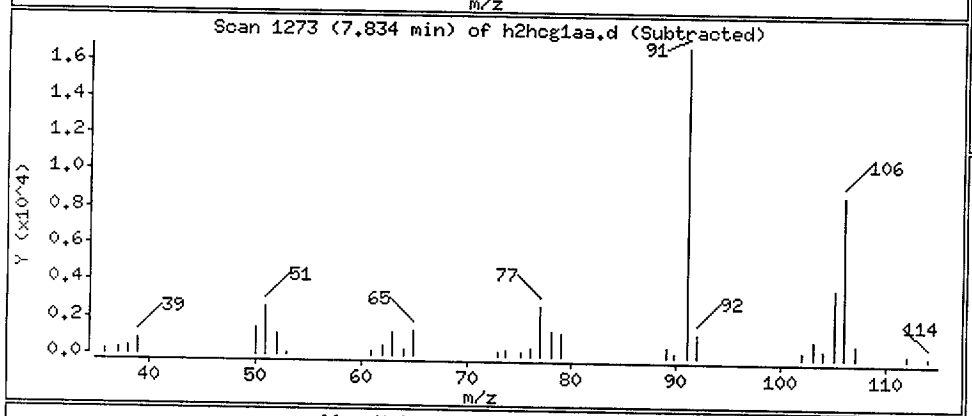
Column diameter: 0.18

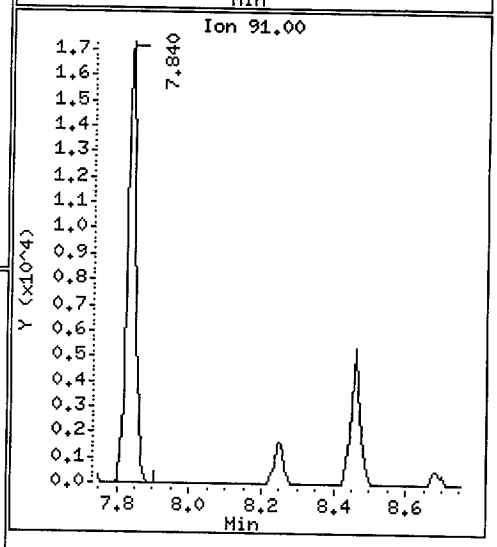
66 o-Xylene

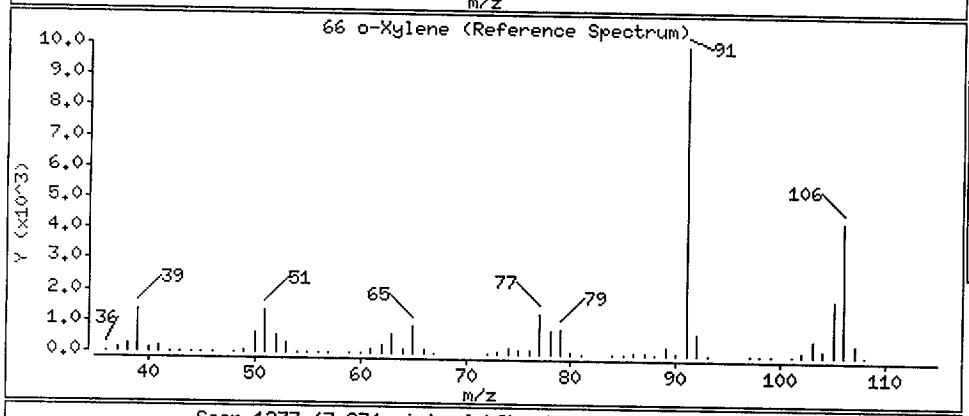
Concentration: 0.0075956 ug

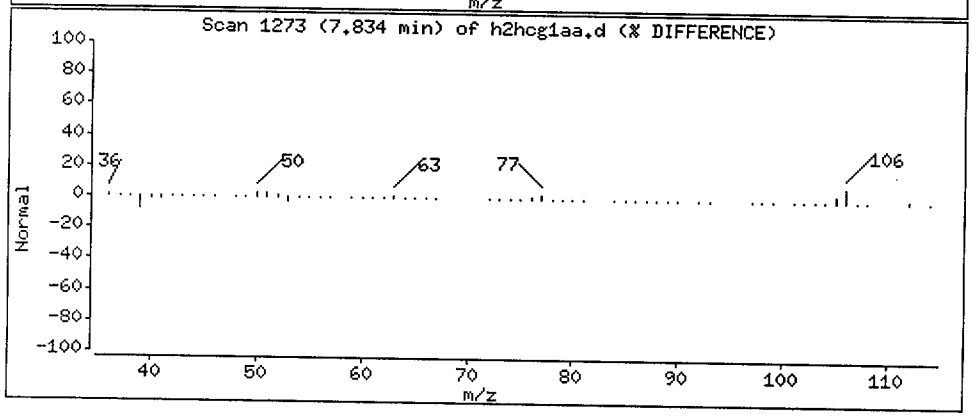












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

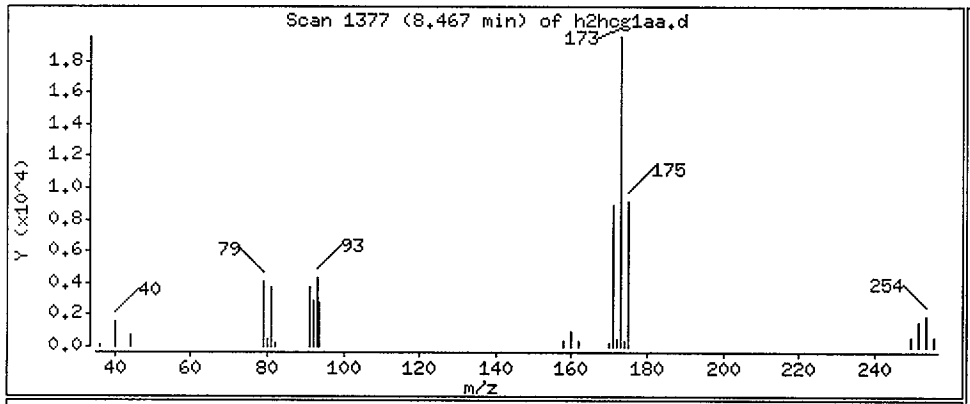
Operator: 22980

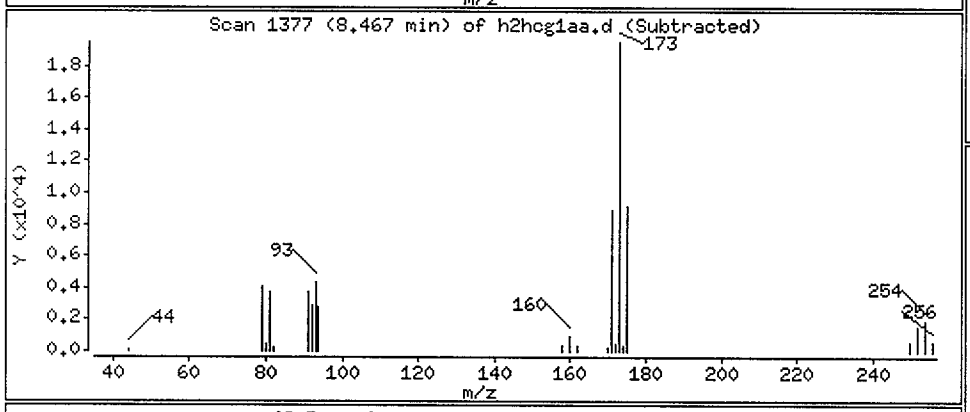
Column phase: J+W 624

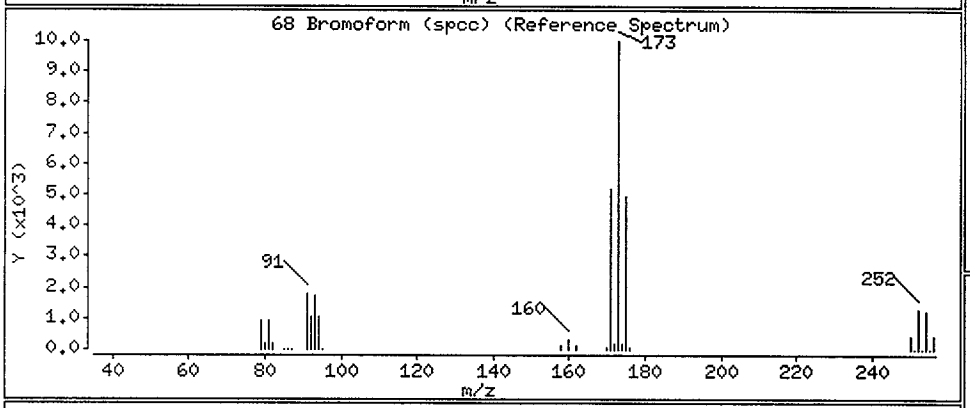
Column diameter: 0.18

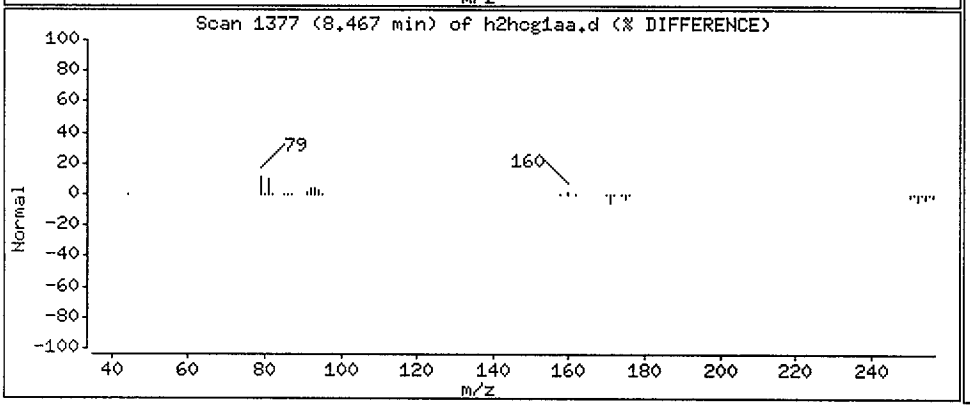
68 Bromoform (spcc)

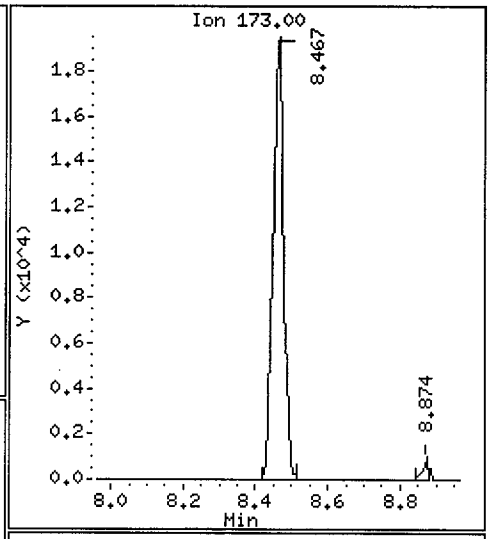
Concentration: 0.15658 ug

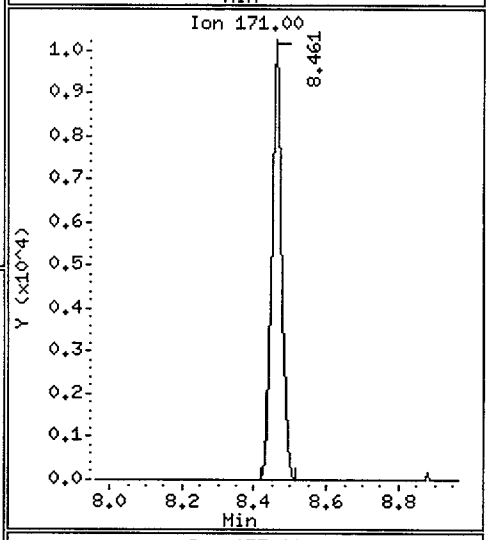


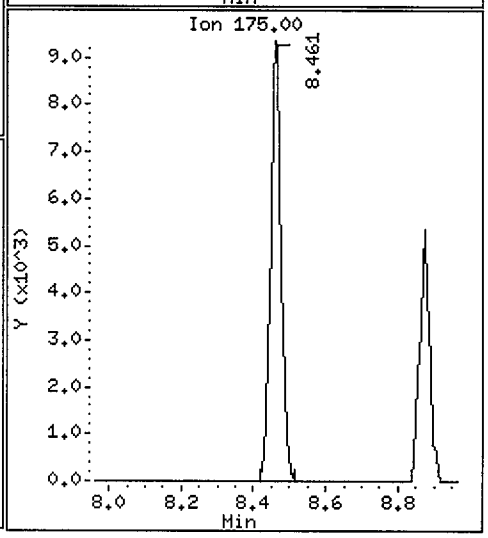












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

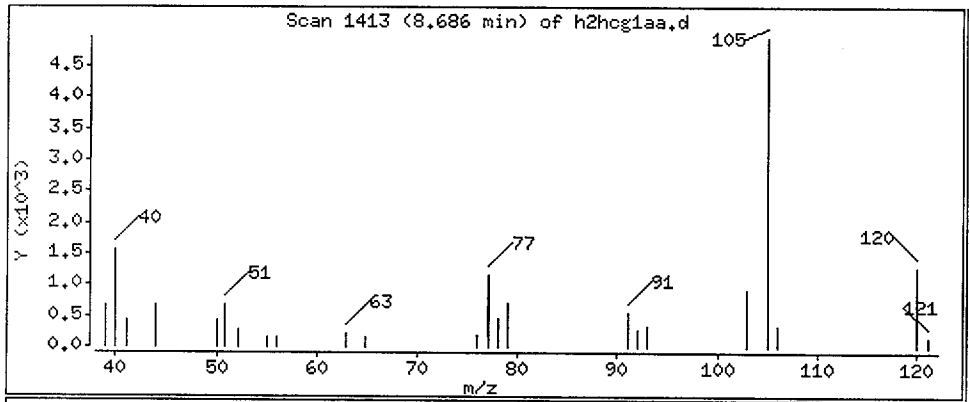
Operator: 22980

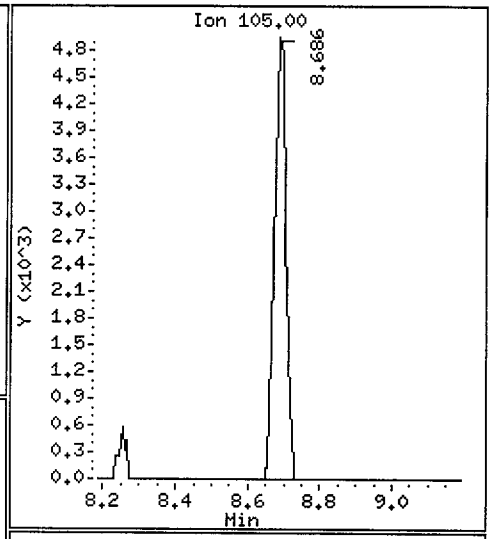
Column phase: J+W 624

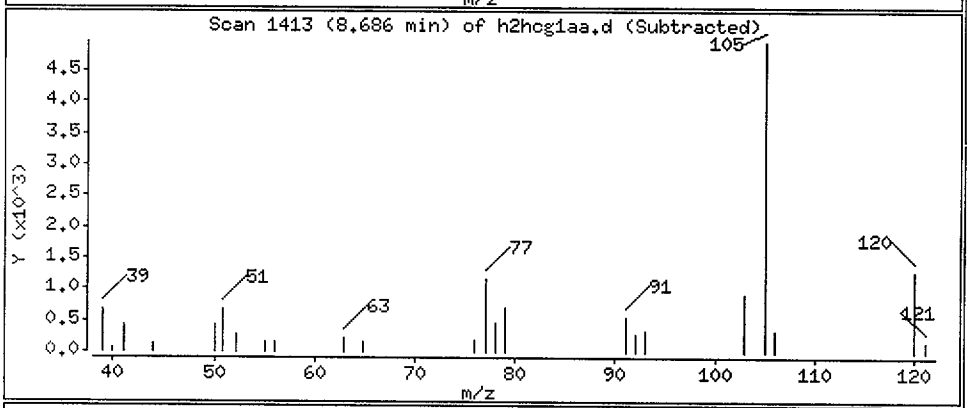
Column diameter: 0.18

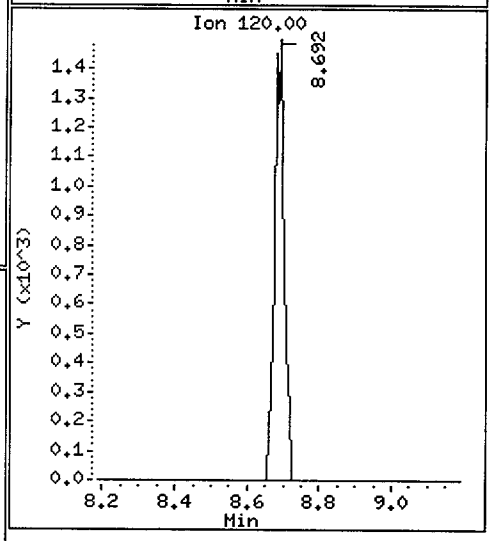
69 Isopropylbenzene

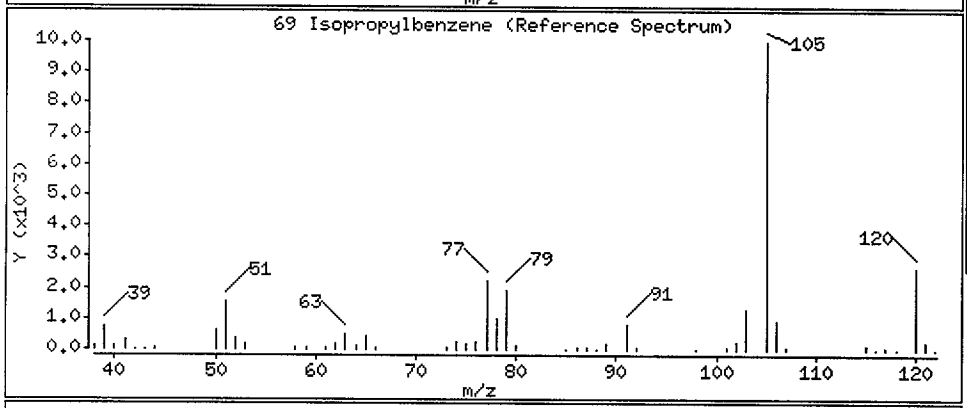
Concentration: 0.0018104 ug

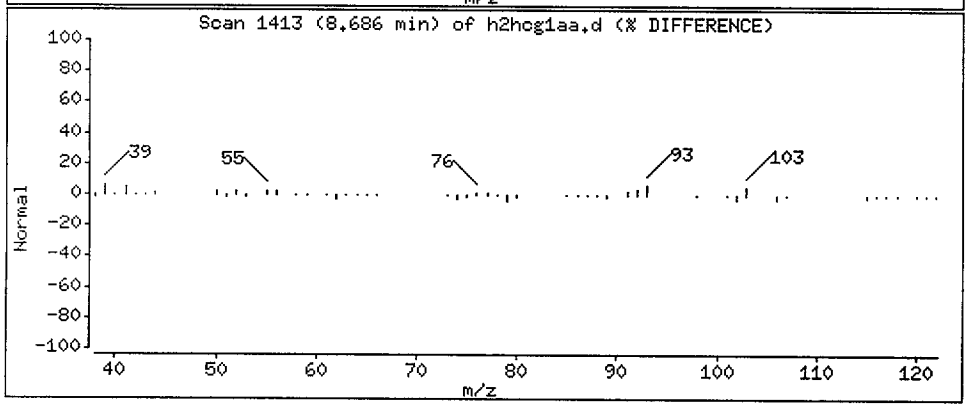












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

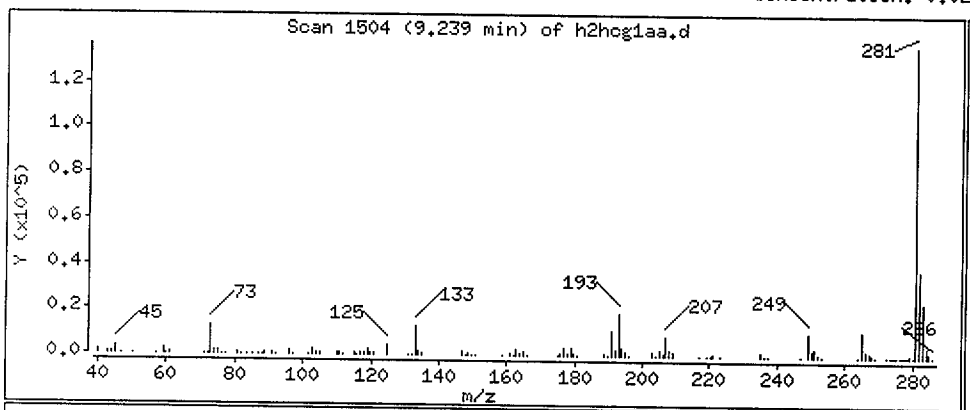
Operator: 22980

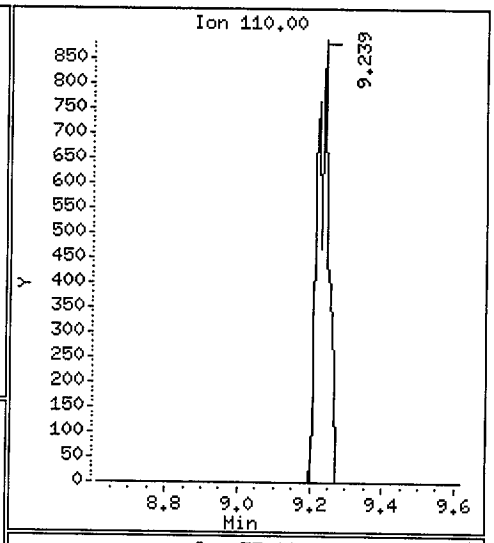
Column phase: J+W 624

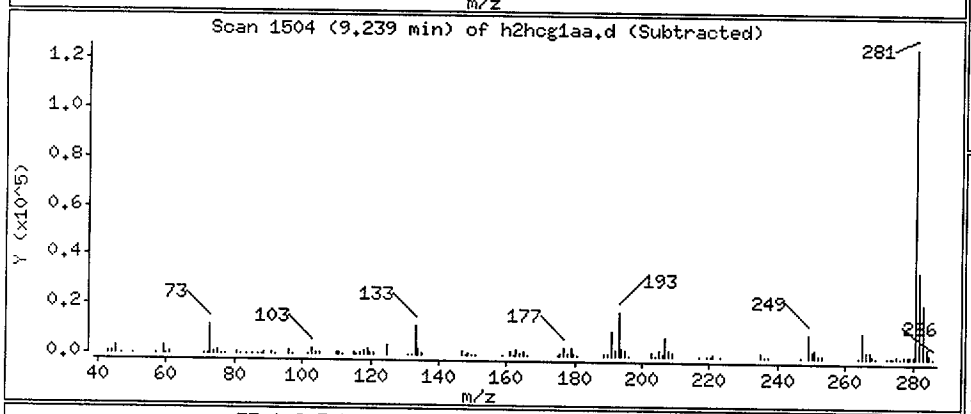
Column diameter: 0.18

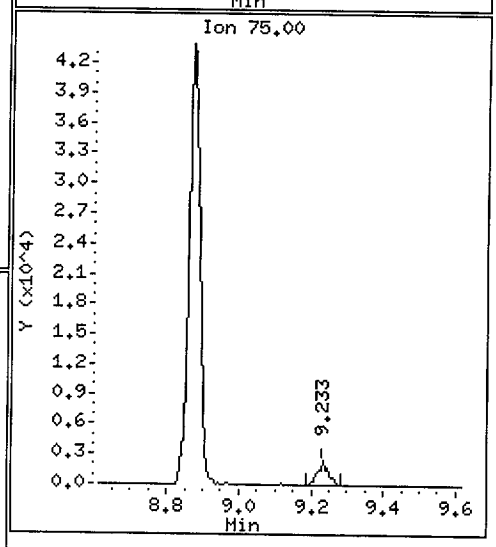
73 1,2,3-Trichloropropane

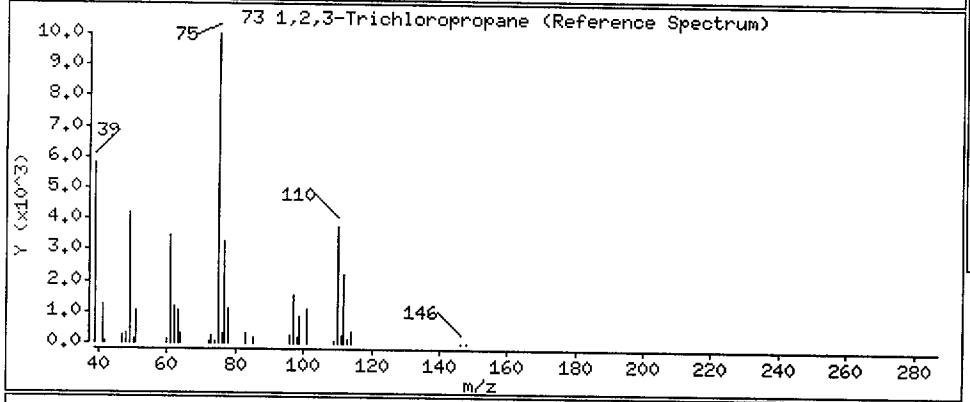
Concentration: 0.020407 ug

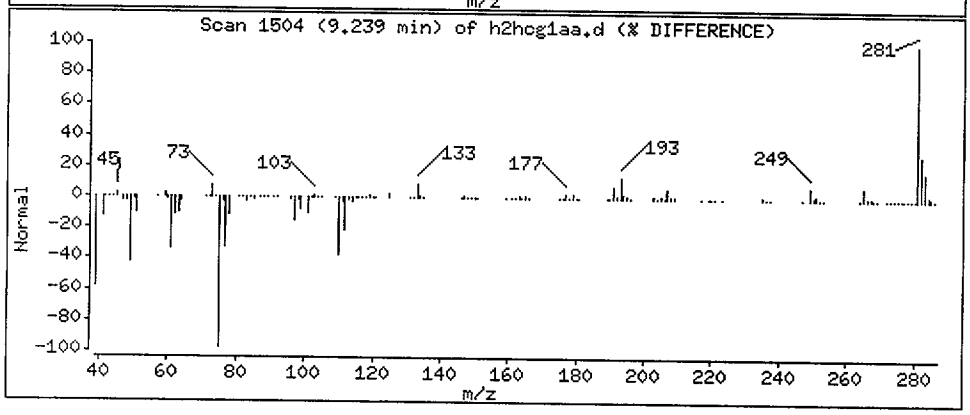












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

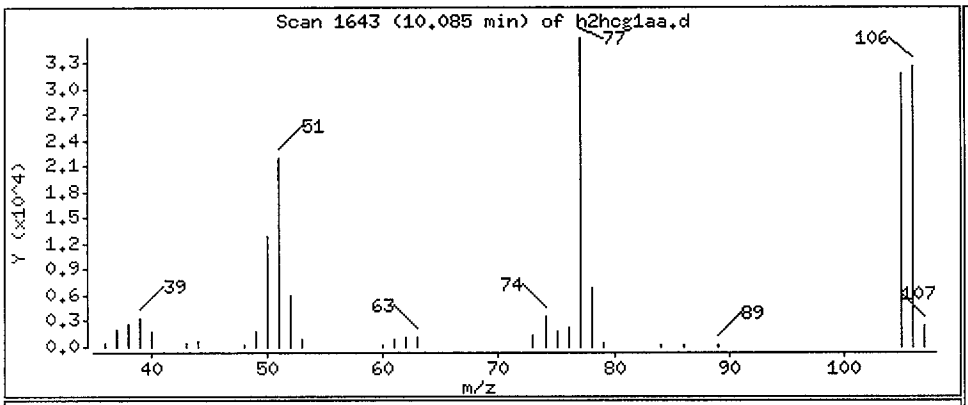
Operator: 22980

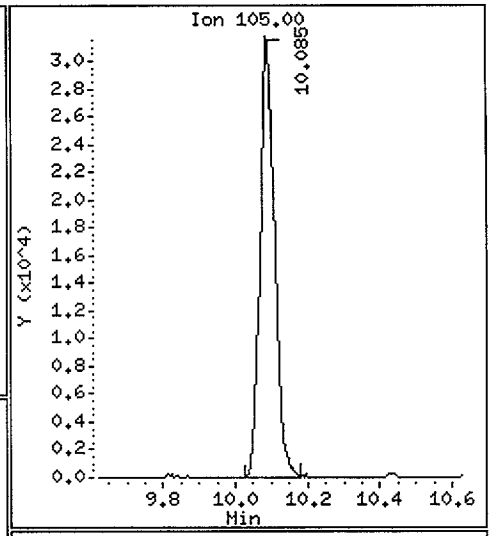
Column phase: J+W 624

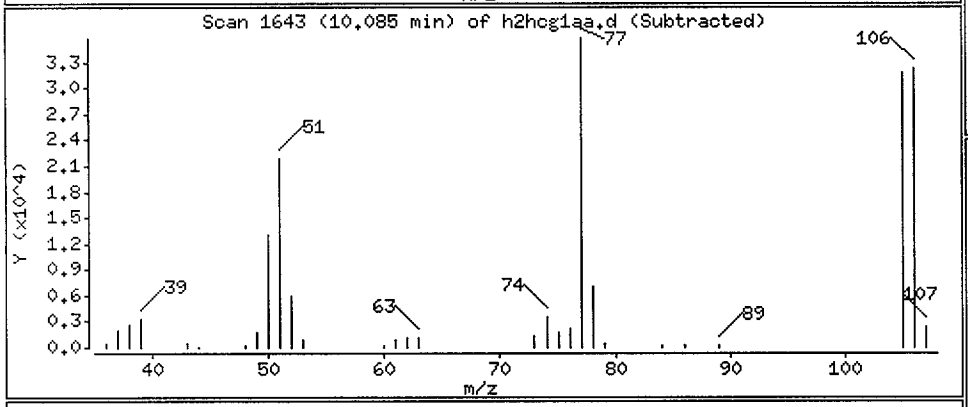
Column diameter: 0.18

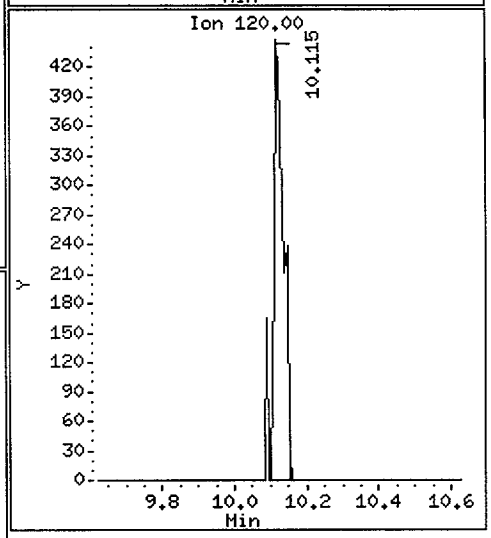
80 1,2,4-Trimethylbenzene

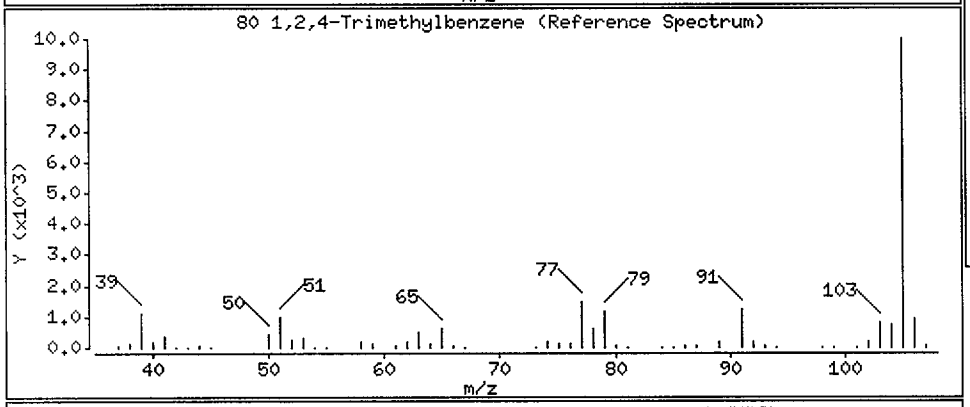
Concentration: 0.028004 ug

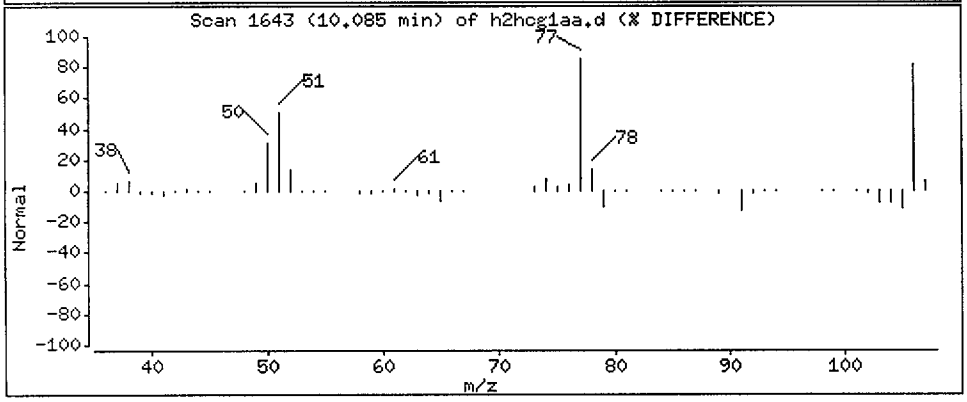












Data File: /chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

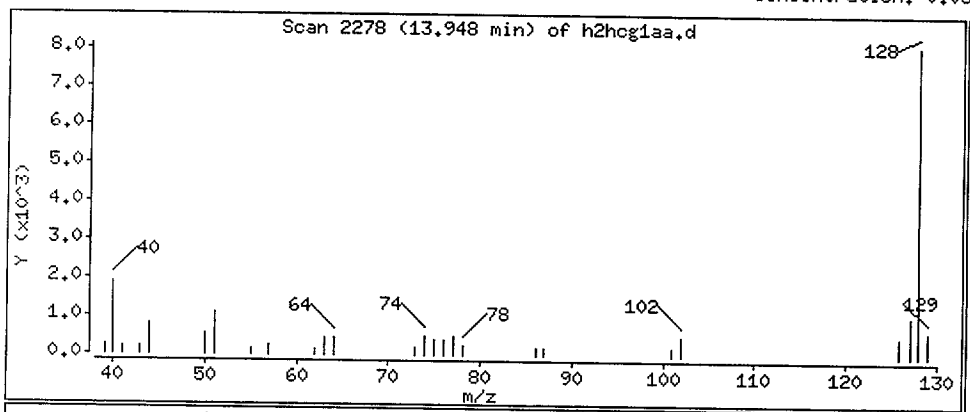
Operator: 22980

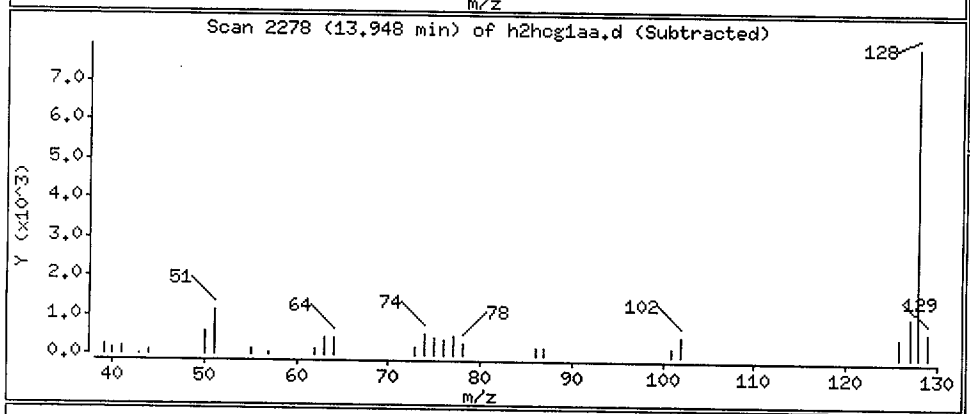
Column phase: J+W 624

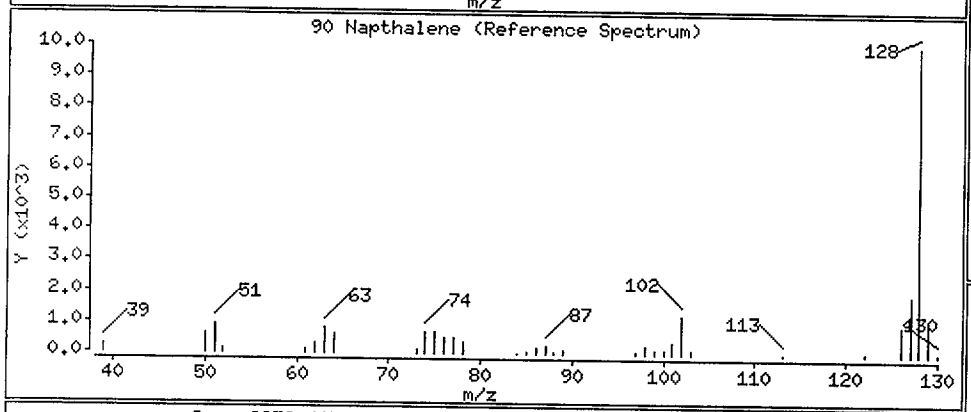
Column diameter: 0.18

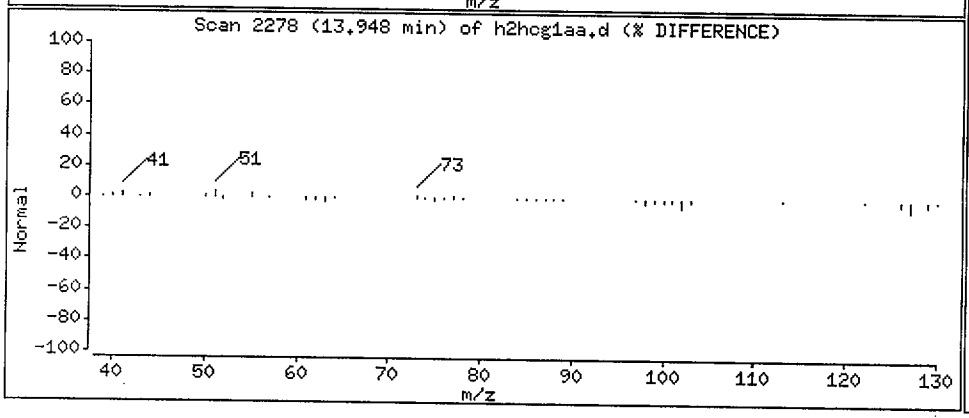
90 Napthalene

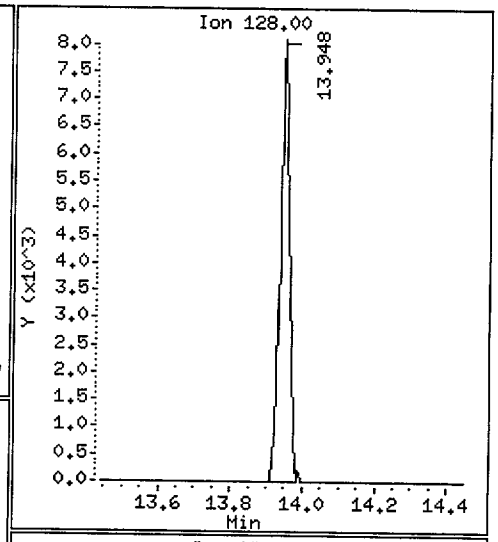
Concentration: 0.032958 ug

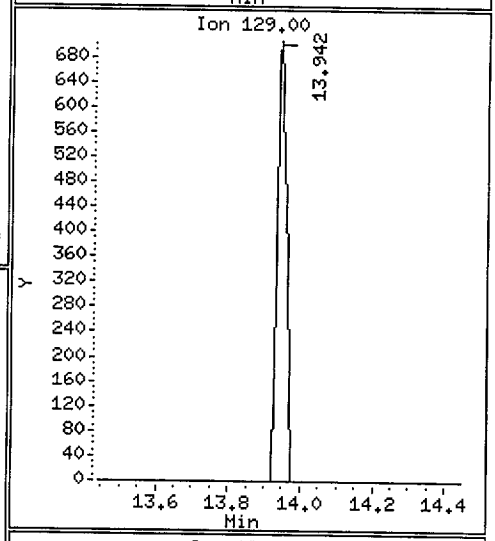


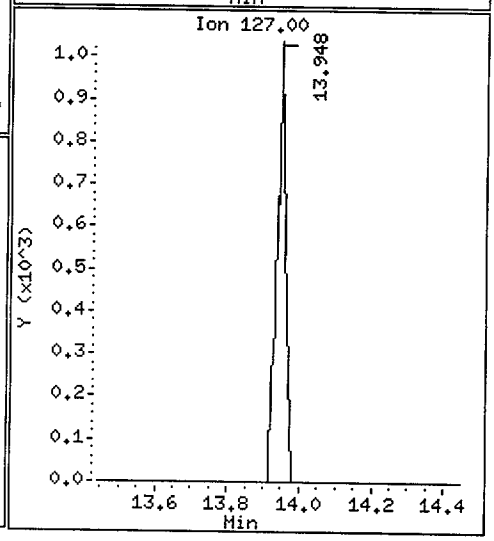












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Report Date: 18-Apr-2006 14:57

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d
Lab Smp Id: H2HCG1AA
Client Smp ID: G-3091-R3-VOST PAIR
Inj Date : 07-APR-2006 14:43
Operator : 22980
Inst ID: mx.i
Smp Info : H2HCG1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	10.742	588978	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
7H-Dibenzo[b,g]carbazole, 7-methyl- Si						CAS #: 3557-49-1		
	9.239	383976	6.51936066	0.16298	59	NIST02.1	106923	3
Benzaldehyde						CAS #: 100-52-7		
	10.085	175261	2.97567991	0.074392	97	NIST02.1	4944	3
11H-Dibenzo[b,e][1,4]diazepin-11-one Si-						CAS #: 13450-73-2		
	12.445	75800	1.28697507	0.032174	46	NIST02.1	98616	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

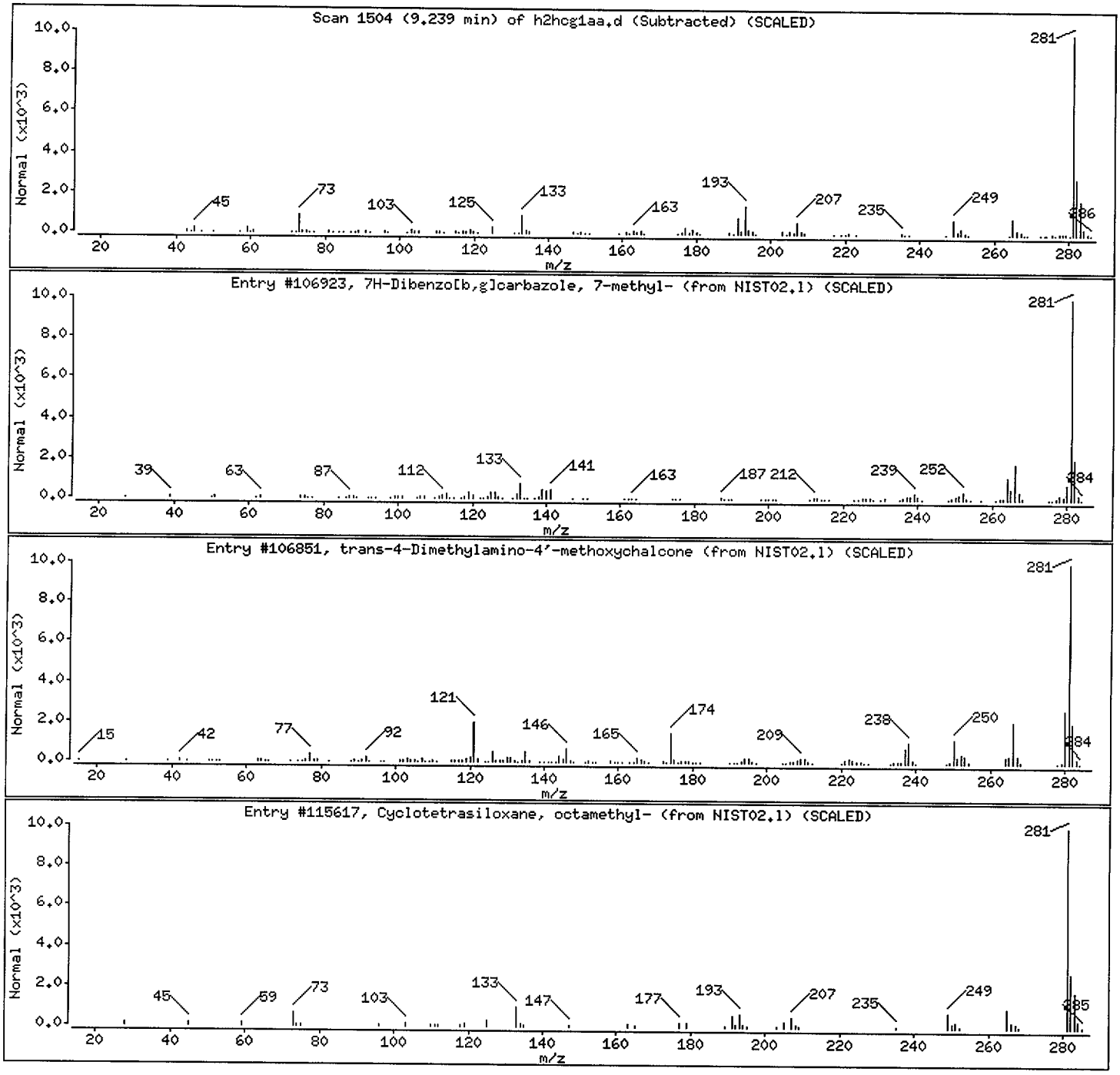
Sample Info: H2HCG1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	59	C21H15N	281
trans-4-Dimethylamino-4'-methoxychalcone	52119-37-6	NIST02.1	106851	50	C18H19NO2	281
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115617	49	C8H24O4Si4	296



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

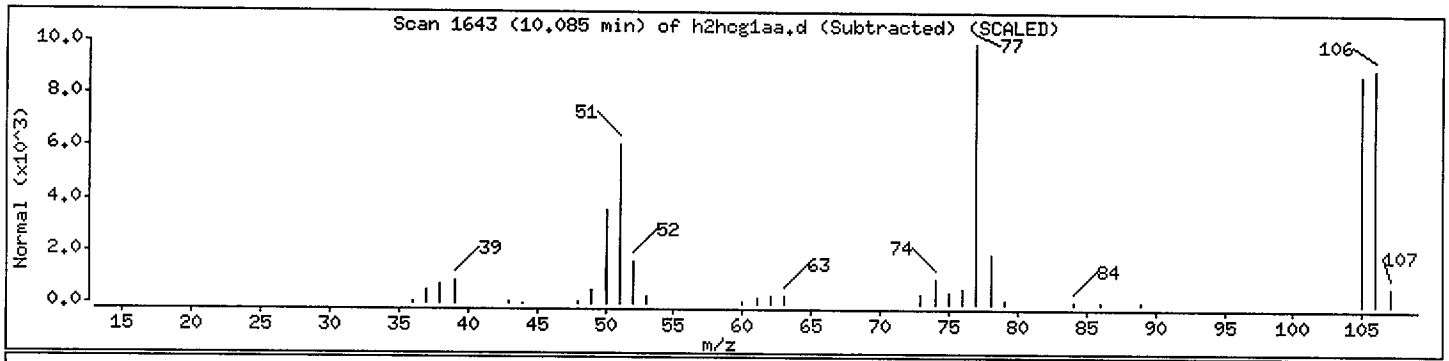
Sample Info: H2HCG1AA,1,0,,,

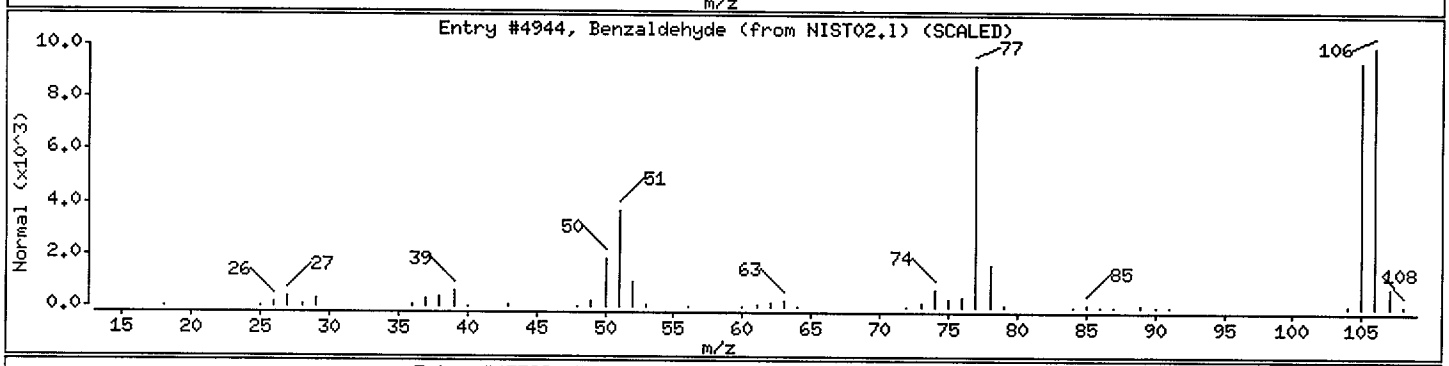
Operator: 22980

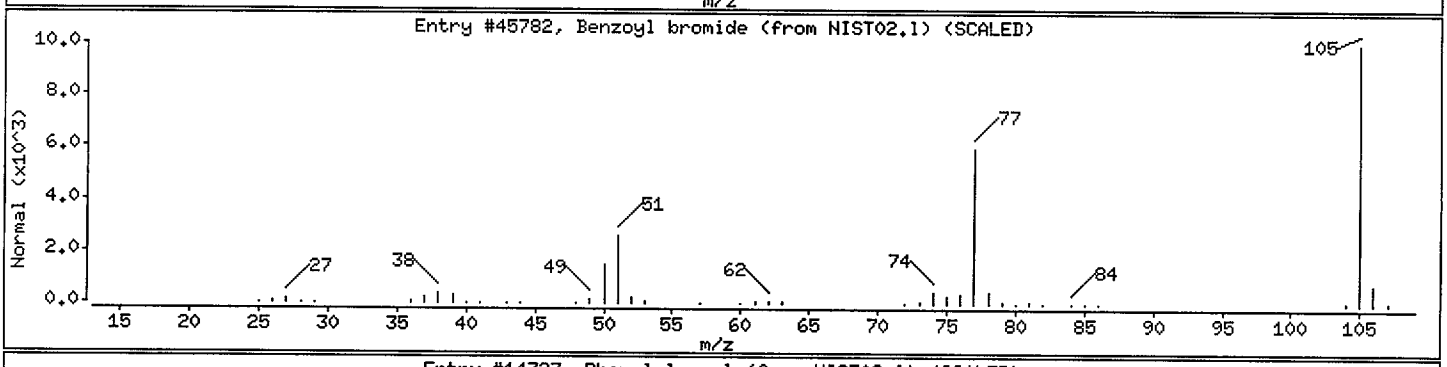
Column phase: J+W 624

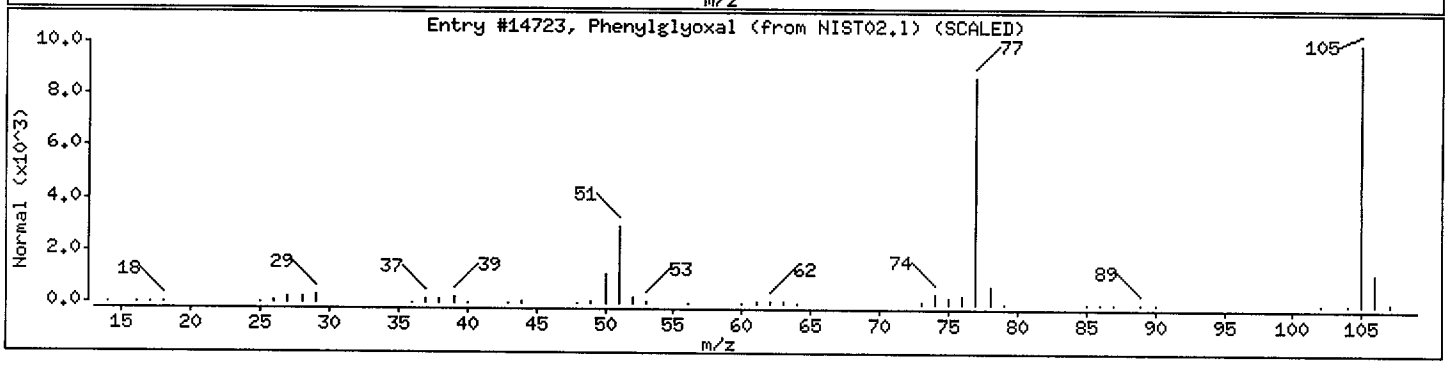
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.1	4944	97	C7H6O	106
Benzoyl bromide	618-32-6	NIST02.1	45782	50	C7H5BrO	184
Phenylglyoxal	1074-12-0	NIST02.1	14723	50	C8H6O2	134









Data File: /var/chem/gcms/mx.i/X040706.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

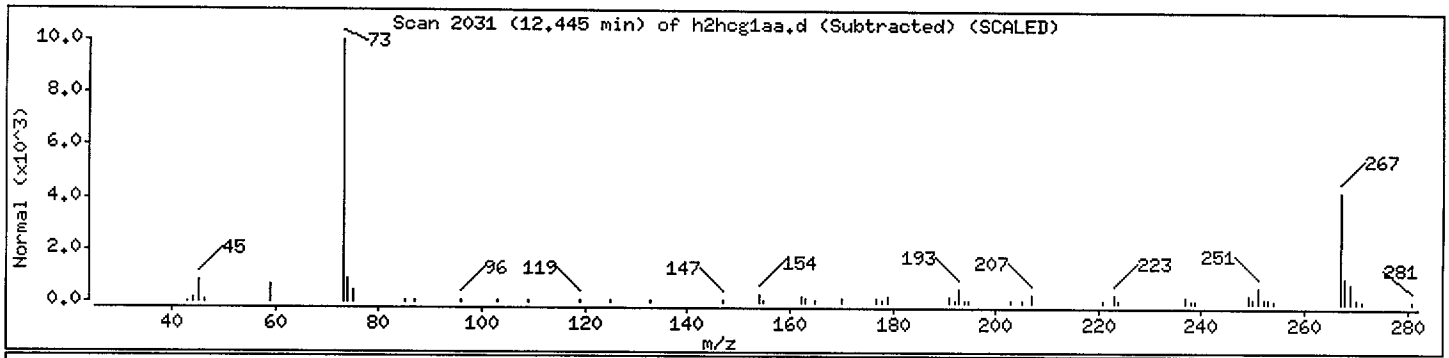
Sample Info: H2HCG1AA,1,0,,,

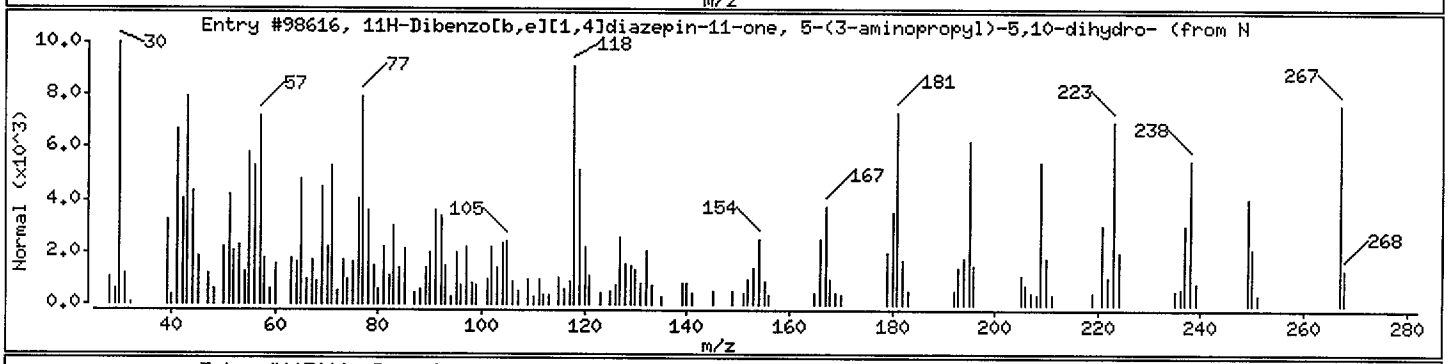
Operator: 22980

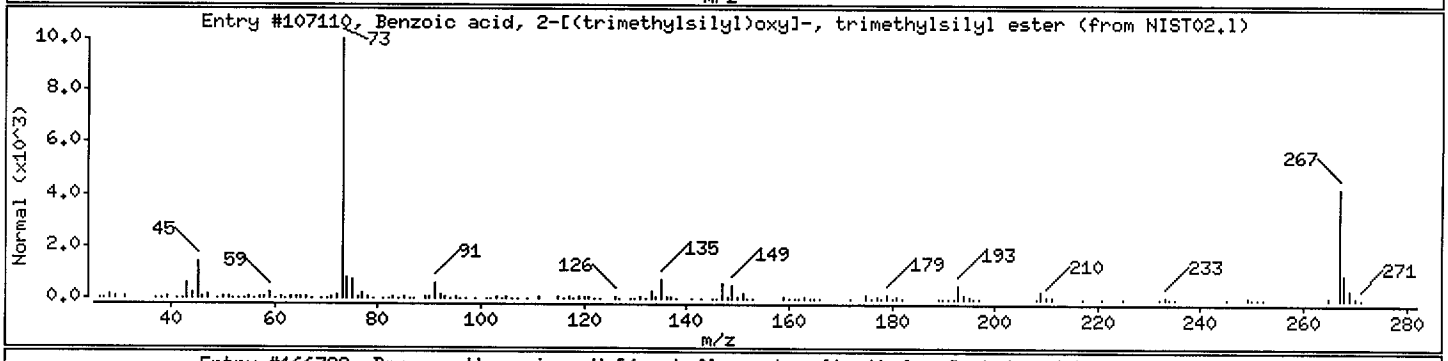
Column phase: J+W 624

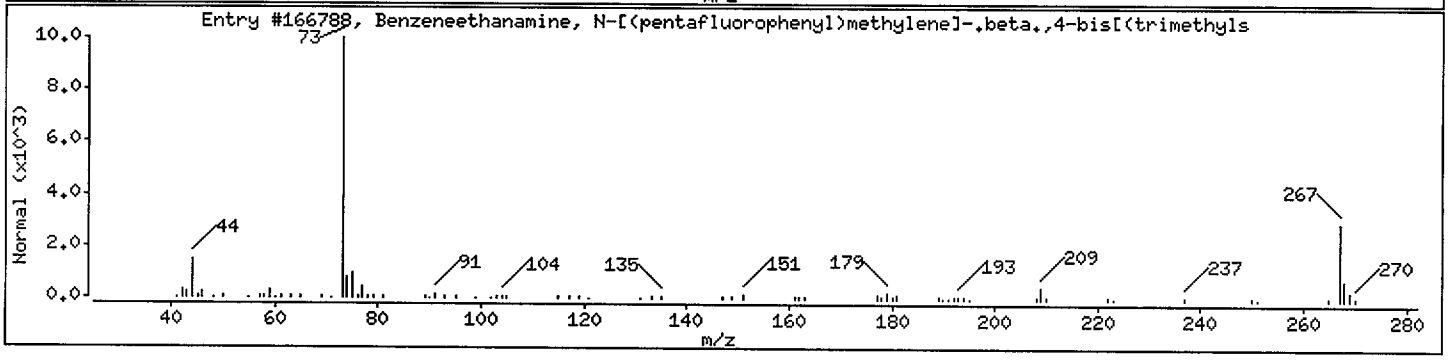
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.l	98616	46	C16H17N3O	267
Benzoic acid, 2-[(trimethylsilyl)oxy]-,	3789-85-3	NIST02.l	107110	40	C13H22O3Si2	282
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.l	166788	37	C21H26F5NO2Si	475









STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG2AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**3.1**	**0.010**	**ug**	**0.0013**
Tetrachloroethene	**2.2**	**0.010**	**ug**	**0.0021**

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Lab Smp Id: H2HCG1AA Client Smp ID: G-3091-R3-VOST PAIR
Inj Date : 07-APR-2006 14:43
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCG1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1165097	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	229388	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	247441	10.0000	
57 Tetrachloroethene	164	6.824	6.816	(0.900)	2786980	86.1317	2.1533(A)
62 Chlorobenzene (spcc)	112	7.615	7.607	(1.004)	9399276	123.862	3.0966(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Report Date: 10-May-2006 12:35

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcg1aa.d
Lab Smp Id: H2HCG1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3091-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1165097	1.38
2 Chlorobenzene-d5	214194	107097	428388	229388	7.09
3 1,4 Dichlorobenze	242601	121300	485202	247441	2.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.03
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

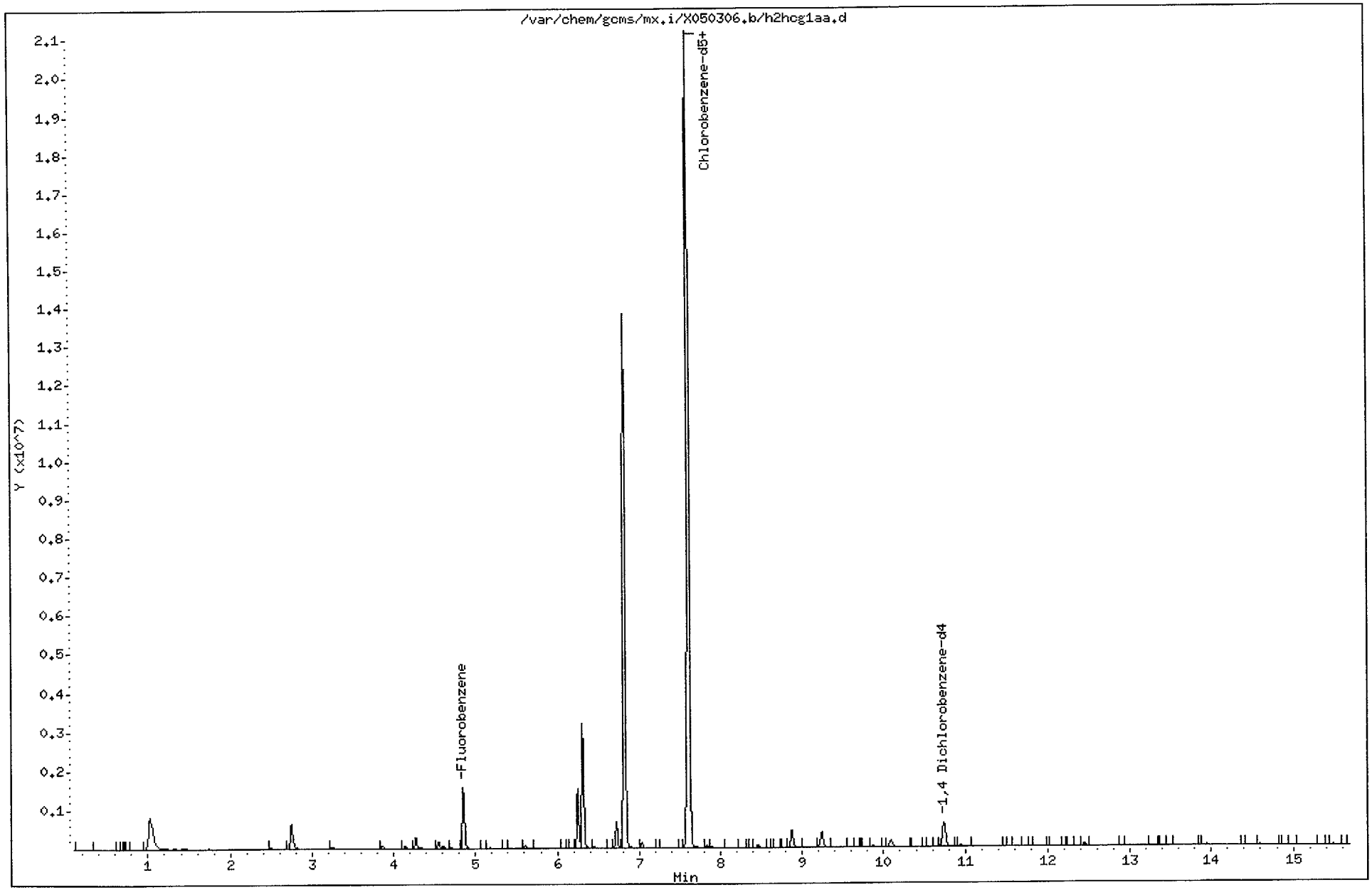
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d
Date : 07-APR-2006 14:43
Client ID: G-3091-R3-VOST PAIR
Sample Info: H2HCG1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

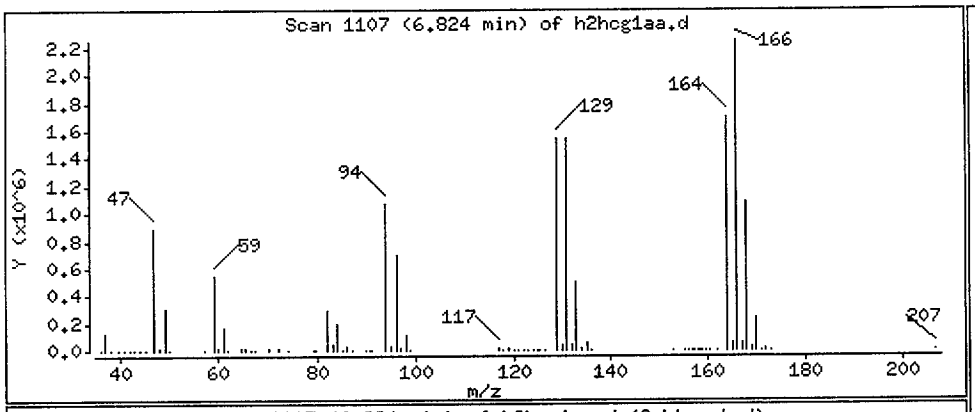
Operator: 22980

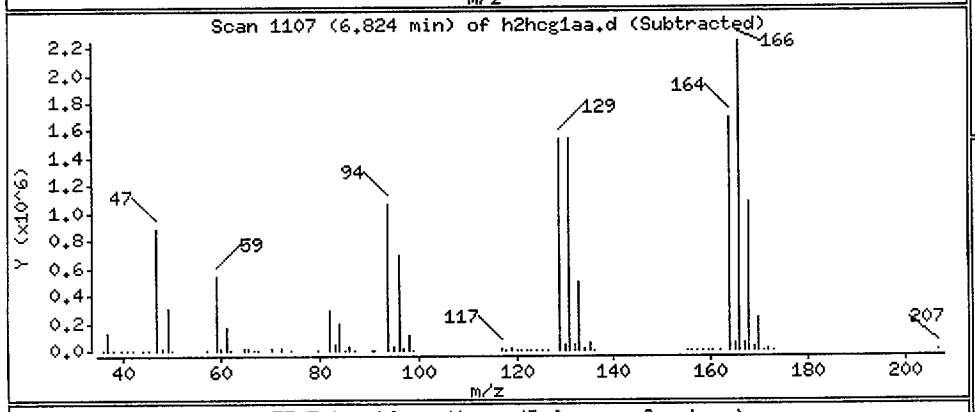
Column phase: J+W 624

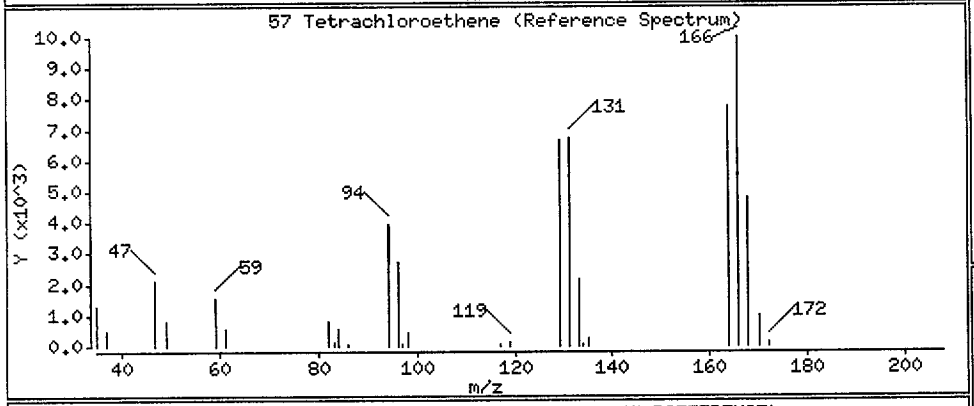
Column diameter: 0.18

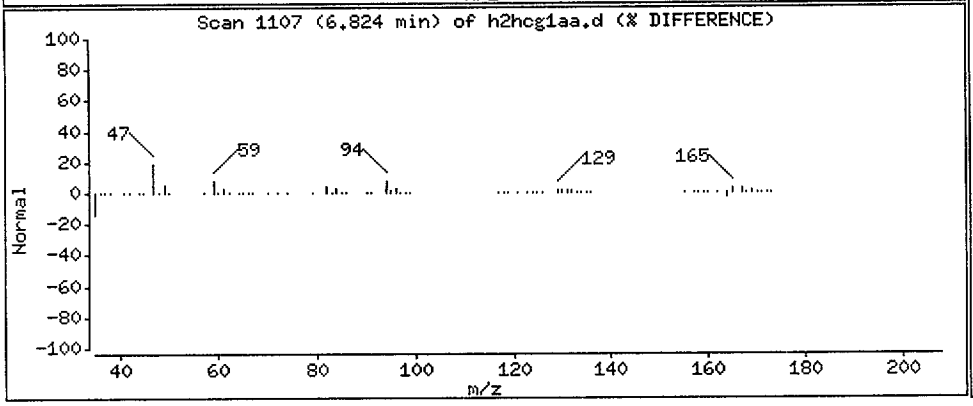
57 Tetrachloroethene

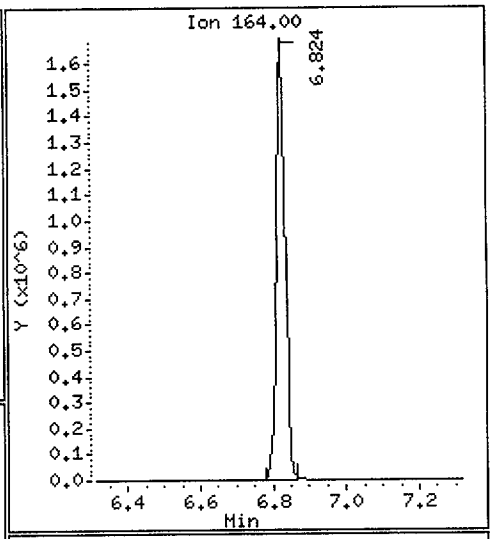
Concentration: 2.1533 ug

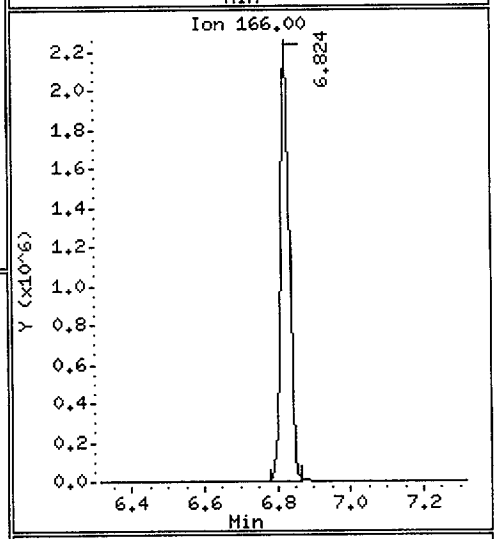


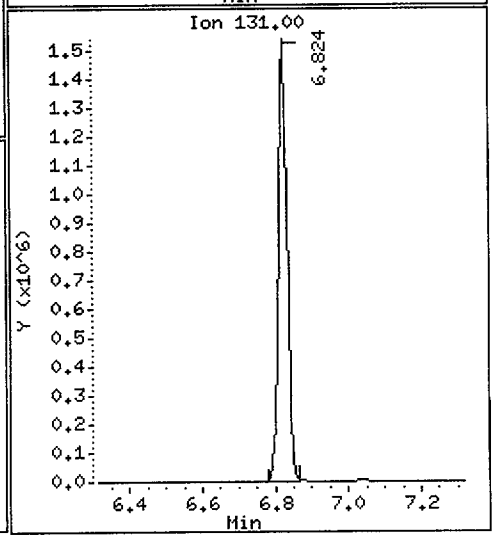












Data File: /var/chem/gcms/mx.i/X050306.b/h2hcg1aa.d

Date : 07-APR-2006 14:43

Client ID: G-3091-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCG1AA,1,0,,,

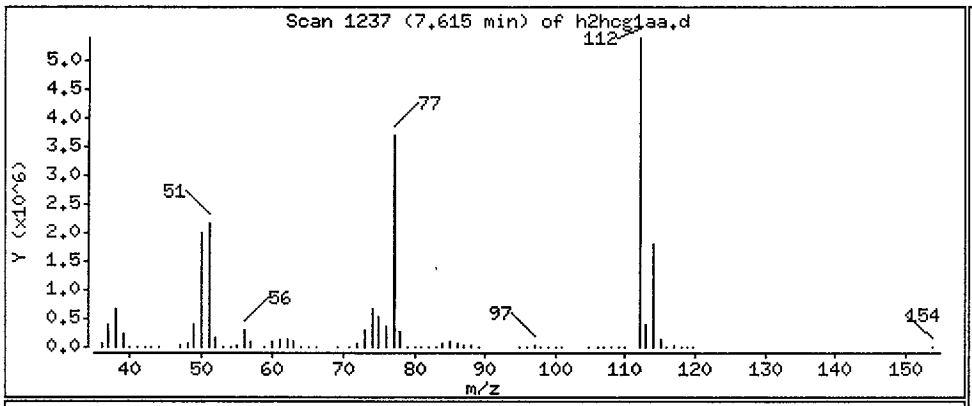
Operator: 22980

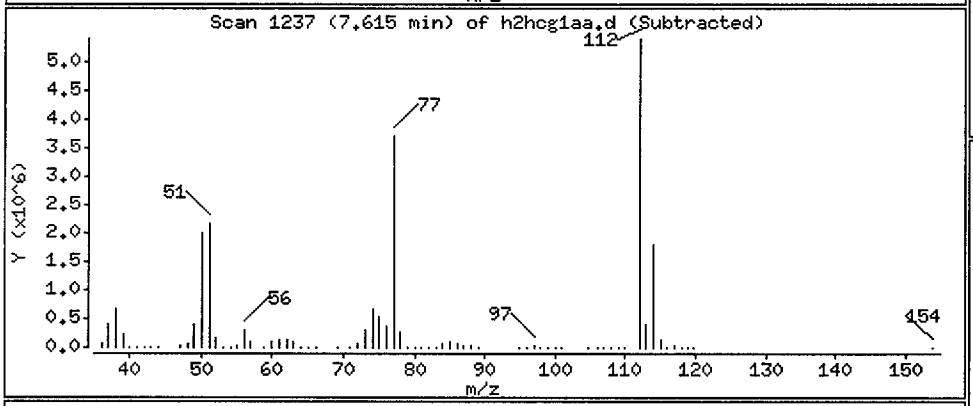
Column phase: J+W 624

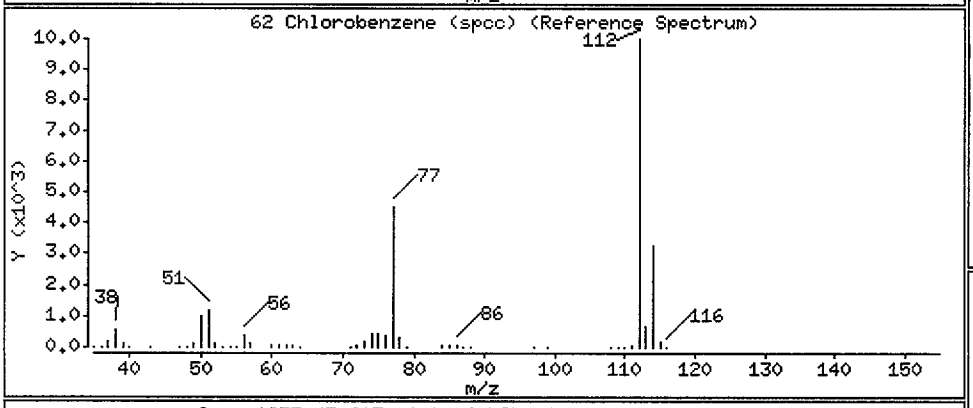
Column diameter: 0.18

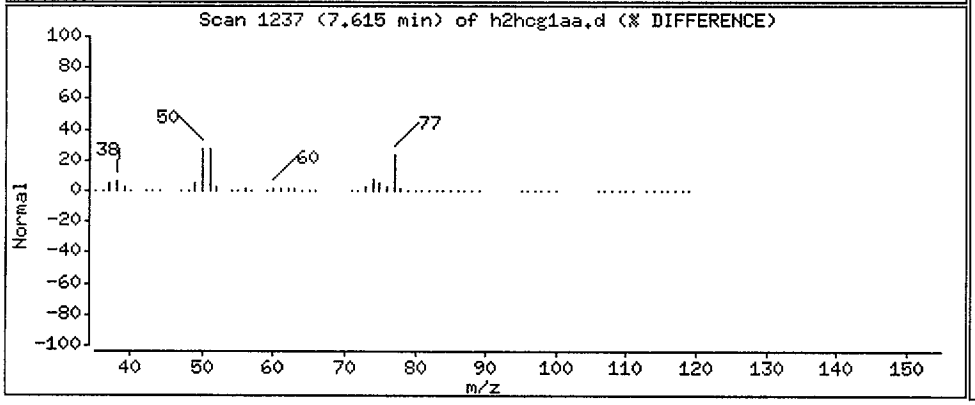
62 Chlorobenzene (spcc)

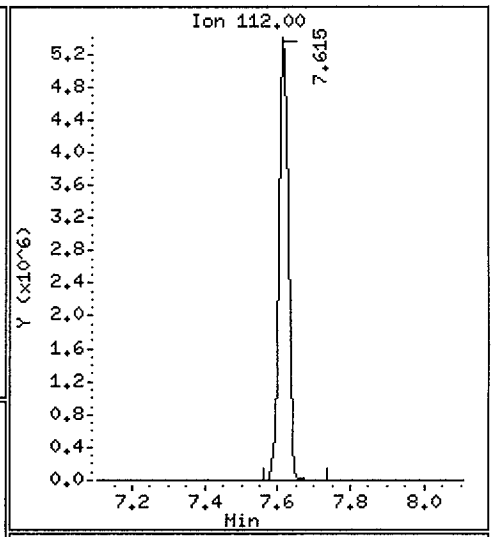
Concentration: 3.0966 ug

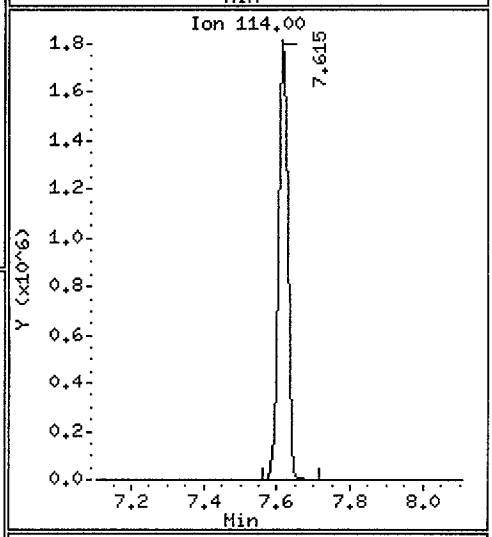


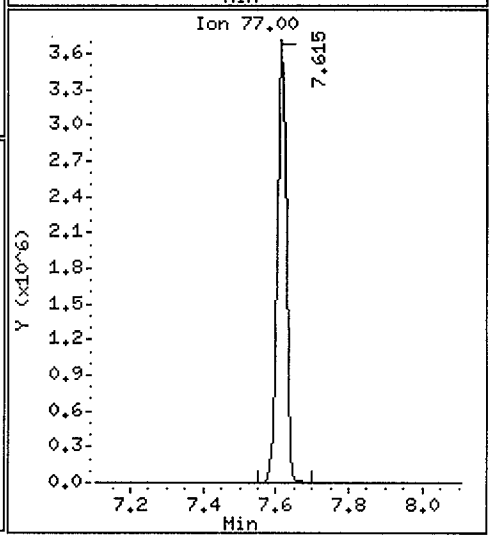












STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026
Date Sampled...: 03/30/06
Prep Date.....: 04/06/06
Prep Batch #...: 6096033
Dilution Factor: 1

Work Order #...: H2HCL1AA
Date Received..: 04/02/06
Analysis Date..: 04/07/06

Matrix.....: AIR

Method.....: SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0021 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0090 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.083**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0076 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026 **Work Order #...:** H2HCL1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.12**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0043 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.016**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	86	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-026 **Work Order #:** H2HCL1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Lab Smp Id: H2HCL1AA Client Smp ID: G-3092-R3-VOST PAIR
Inj Date : 07-APR-2006 15:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCL1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	759484	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	175340	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.496	11.492	(1.000)	230555	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	131636	10.8167	0.27042
$ 5 1,2-Dichloroethane-d4	65	5.243	5.238	(0.924)	106900	10.1581	0.25395
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	698107	9.06144	0.22654
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	200807	8.63628	0.21591
10 Dichlorodifluoromethane	85	1.015	1.016	(0.179)	5641	0.30430	0.0076076
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	166381	3.33825	0.083456
15 Bromomethane	94	1.422	1.418	(0.251)	1211	0.98380	0.024595
16 Chloroethane	64	1.398	1.485	(0.246)	25900	1.82854	0~~.045714~~
22 Acetone	43	2.128	2.123	(0.375)	1376	3.54852	0.088713 - See report for (u)
23 *Iodomethane	142	2.183	2.184	(0.385)	908	0.56814	0.014204
24 Carbon Disulfide	76	2.237	2.239	(0.394)	4966	0.08523	0.0021308
27 Methylene Chloride	84	2.511	2.513	(0.443)	58696	4.62102	0.11552
39 *THF	42	4.543	4.532	(0.801)	1360	0.75512	0.018878

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
44 Benzene	78	5.310	5.305	(0.936)	8158	0.10893	0.0027234
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	11701	0.73780	~~0.018445~~
46 Trichloroethene	130	6.119	6.114	(1.078)	13546	0.64297	0.016074
53 4-Methyl-2-pentanone	43	7.463	7.386	(1.315)	6007	0.90578	0~~.022645~~
54 Toluene (ccc)	91	7.530	7.532	(0.843)	17259	0.17296	0.0043240
55 trans-1,3-Dichloropropene	75	7.475	7.793	(0.837)	162	0.63547	0~~.015887~~
58 Tetrachloroethene	164	8.102	8.097	(0.907)	1666	0.08052	0.0020130
61 Chlorodibromomethane	129	8.096	8.353	(0.906)	1348	0.91716	~~0.022929~~
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	20056	0.36011	0.0090026
65 Ethylbenzene (ccc)	106	9.227	9.101	(1.033)	2382	0.06640	0~~.0016599~~
67 o-Xylene	106	9.227	9.612	(1.033)	2382	0.06218	0~~.0015545~~
68 Styrene	104	9.635	9.630	(1.078)	2418	0.04495	0.0011238
69 Bromoform (spcc)	173	10.122	9.782	(1.133)	174	0.86374	~~0.021594~~
83 1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	3667	0.09088	0~~.0022721~~
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	3667	0.09771	0.0024426

JW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 14-Apr-2006 16:01

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Lab Smp Id: H2HCL1AA Client Smp ID: G-3092-R3-VOST PAIR
Inj Date : 07-APR-2006 15:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCL1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	759484	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	175340	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.496	11.492	(1.000)	230555	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	131636	10.8167	0.27042
$ 5 1,2-Dichloroethane-d4	65	5.243	5.238	(0.924)	106900	10.1580	0.25395
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	698107	9.06146	0.22654
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	200807	8.63628	0.21591
10 Dichlorodifluoromethane	85	1.015	1.016	(0.179)	5641	0.30428	0.0076070
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	166381	3.33824	0.083456
15 Bromomethane	94	1.422	1.418	(0.251)	1211	0.98374	0.024594
22 Acetone	43	2.128	2.123	(0.375)	4038	4.14960	0.10374(M)
23 *Iodomethane	142	2.183	2.184	(0.385)	908	0.56810	0.014202
24 Carbon Disulfide	76	2.237	2.239	(0.394)	4966	0.08523	0.0021307
27 Methylene Chloride	84	2.511	2.513	(0.443)	58696	4.62102	0.11552
39 *THF	42	4.543	4.532	(0.801)	1360	0.75472	0.018868
44 Benzene	78	5.310	5.305	(0.936)	8158	0.10892	0.0027231

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 14-Apr-2006 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
46 Trichloroethene	130	6.119	6.114	(1.078)	13546	0.64296	0.016074
54 Toluene (ccc)	91	7.530	7.532	(0.843)	17259	0.17296	0.0043240
58 Tetrachloroethene	164	8.102	8.097	(0.907)	1666	0.08049	0.0020123
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	20056	0.36010	0.0090026
68 Styrene	104	9.635	9.630	(1.078)	2418	0.04494	0.0011236
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	3667	0.09768	0.0024420

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcl1aa.d
Lab Smp Id: H2HCL1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3092-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	759484	-20.27
2 Chlorobenzene-d5	164101	82050	328202	175340	6.85
3 1,4 Dichlorobenze	204390	102195	408780	230555	12.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 07-Apr-2006 15:51

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCL1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3092-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

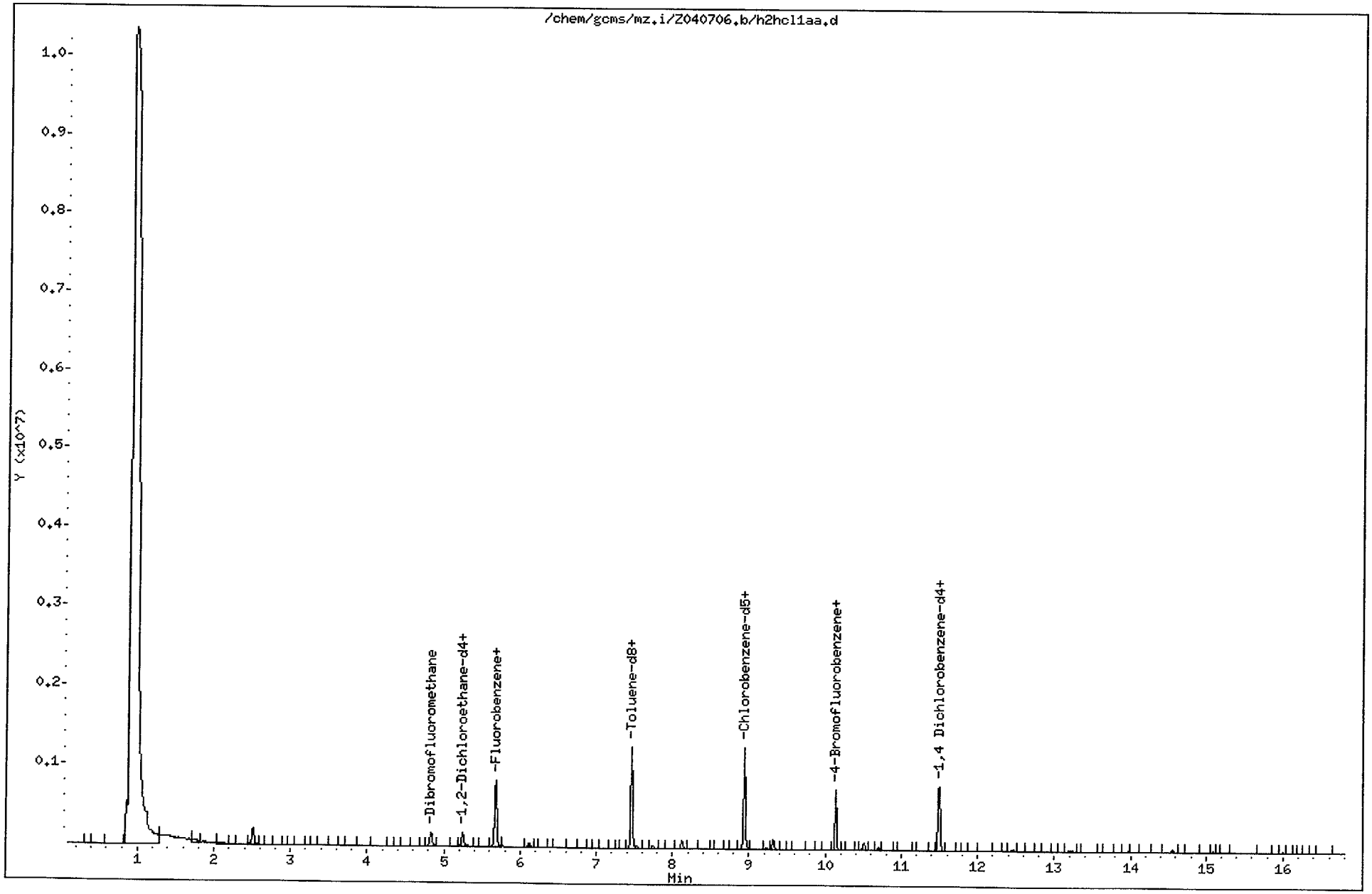
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.27042	108.17	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25395	101.58	50-150
$ 6 Toluene-d8	0.25000	0.22654	90.61	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21591	86.36	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Date : 07-APR-2006 15:33
Client ID: G-3092-R3-VOST PAIR
Sample Info: H2HCL1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

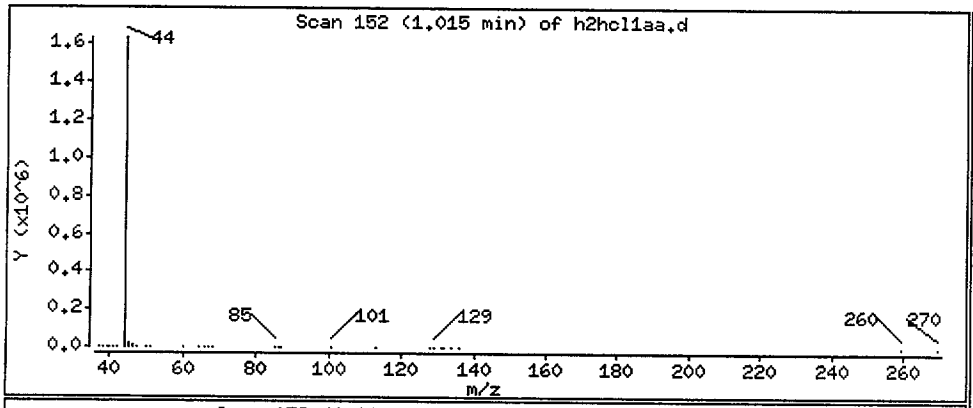
Operator: 22980

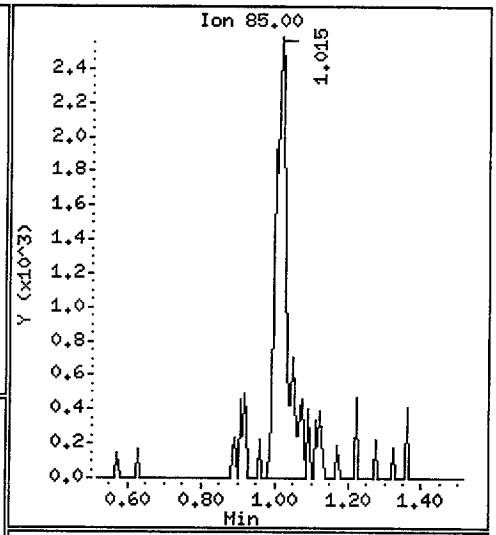
Column phase: J+W 624

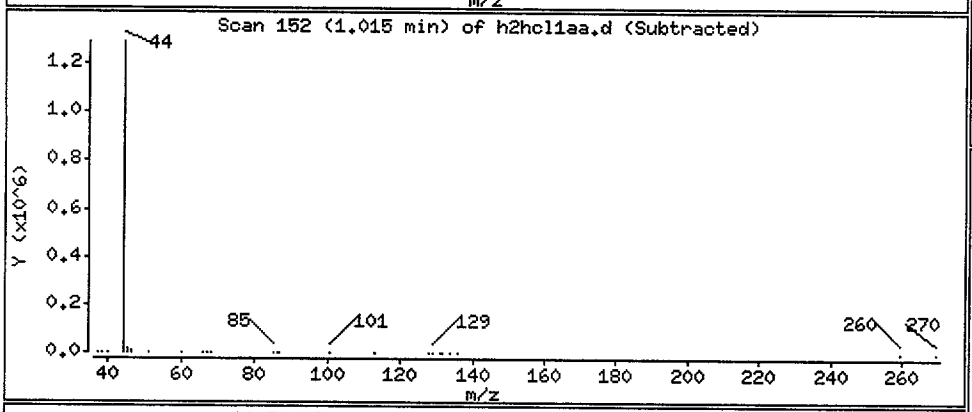
Column diameter: 0.18

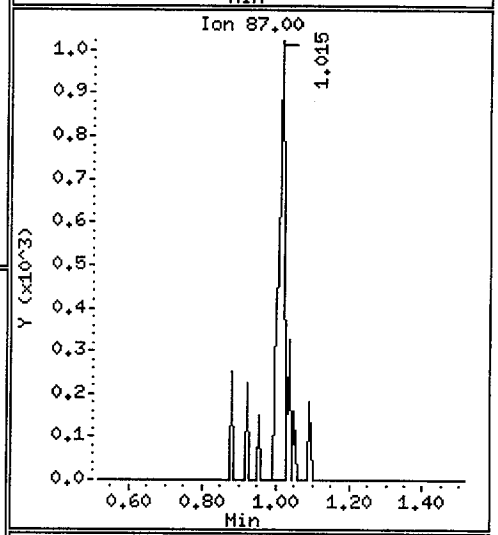
10 Dichlorodifluoromethane

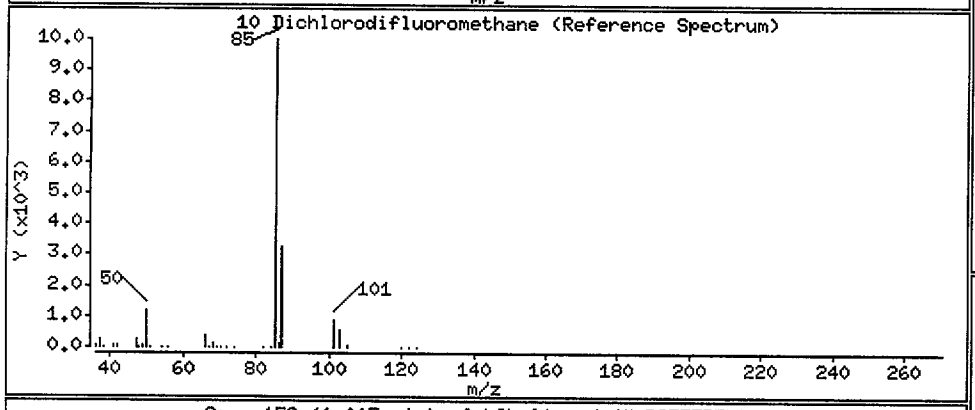
Concentration: 0.0076076 ug

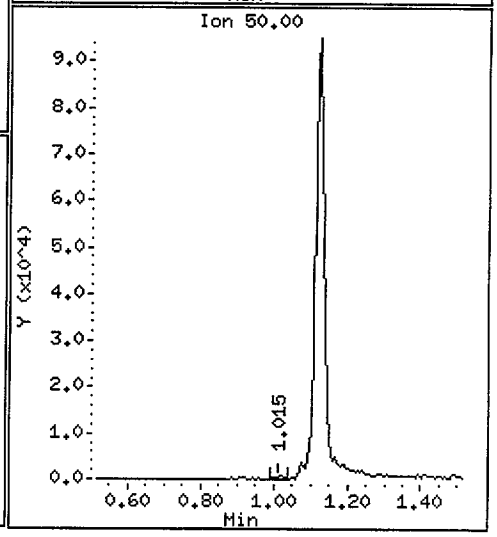


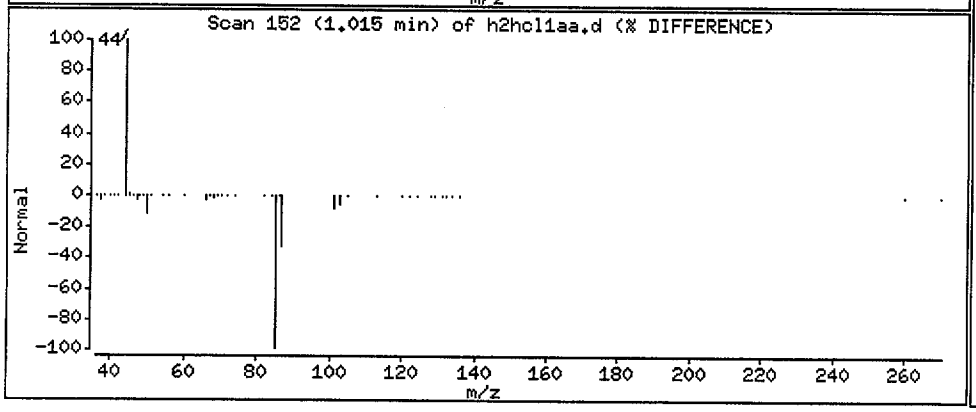












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

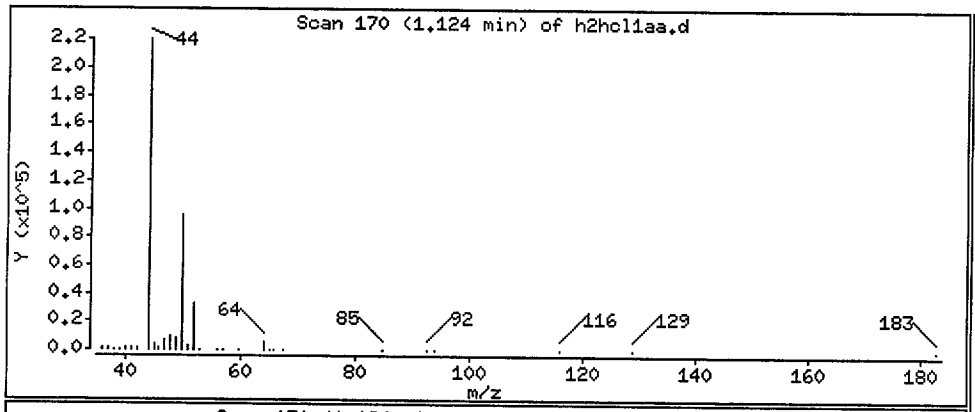
Operator: 22980

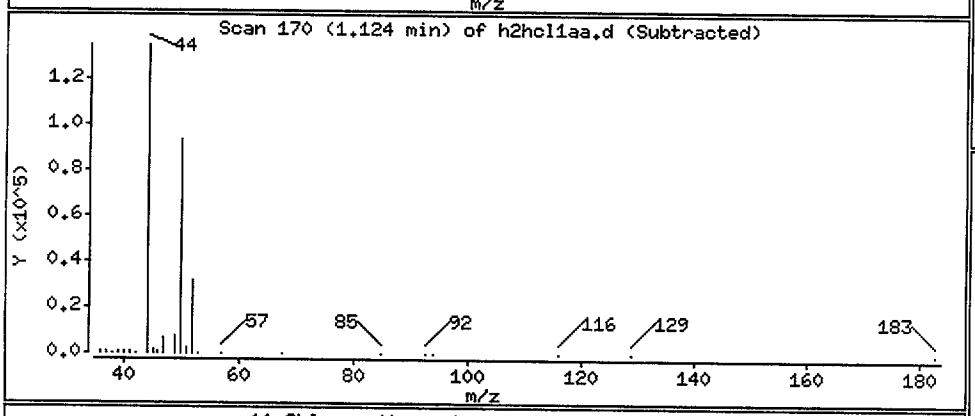
Column phase: J+W 624

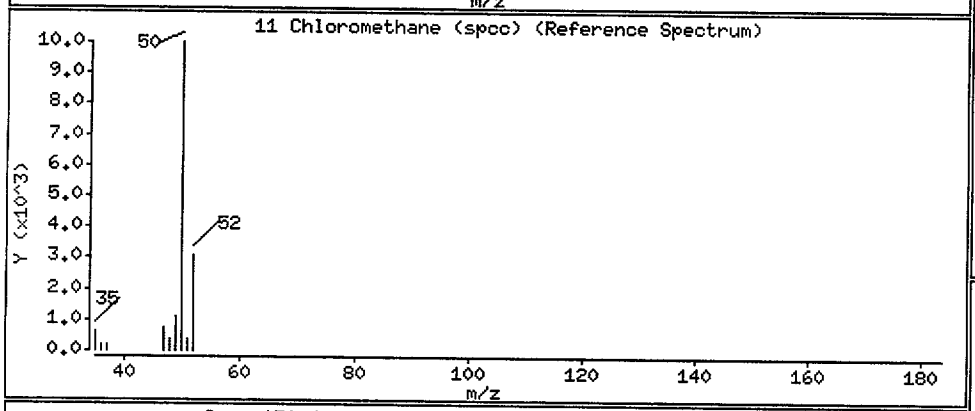
Column diameter: 0.18

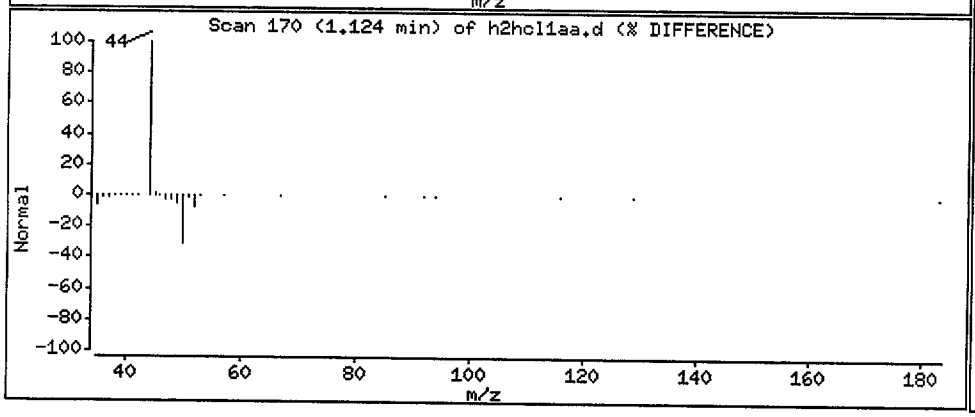
11 Chloromethane (spcc)

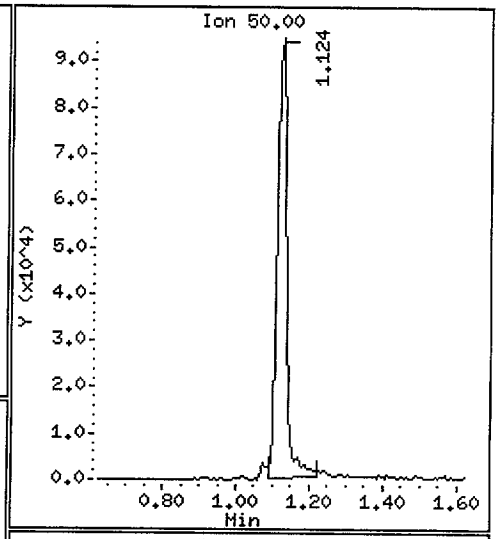
Concentration: 0.083456 ug

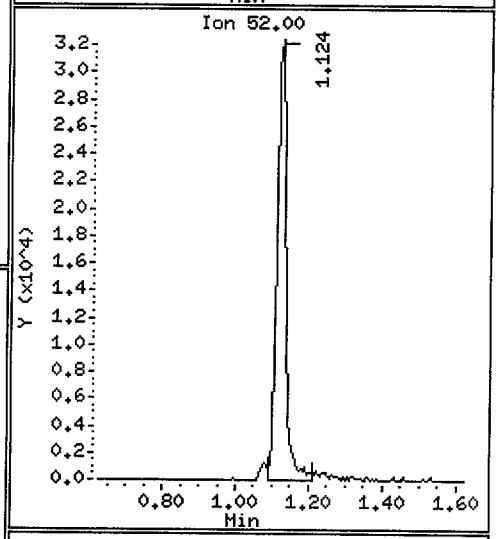


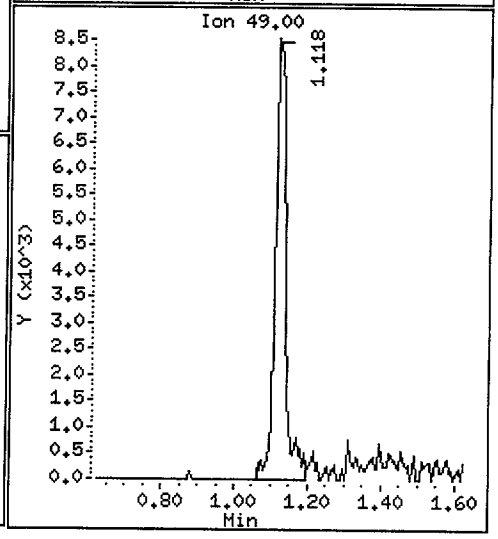












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

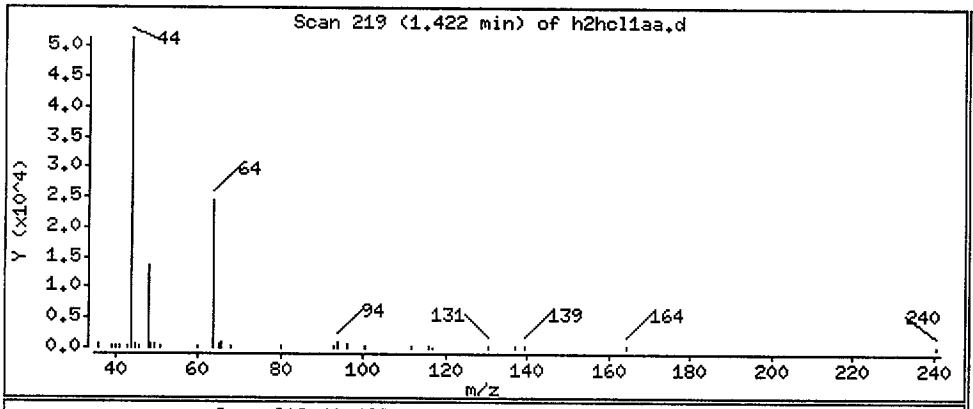
Operator: 22980

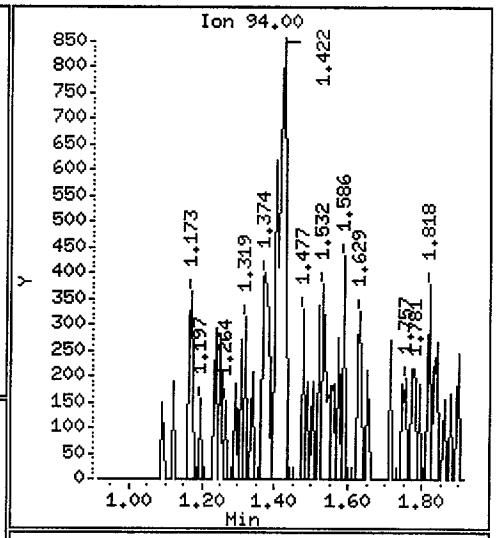
Column phase: J+W 624

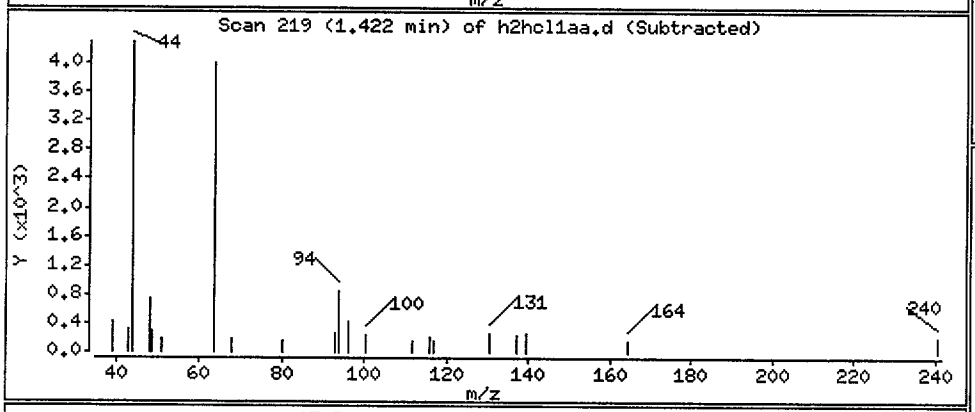
Column diameter: 0.18

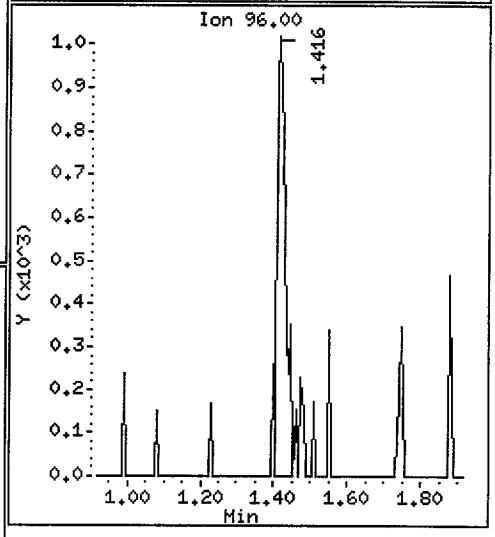
15 Bromomethane

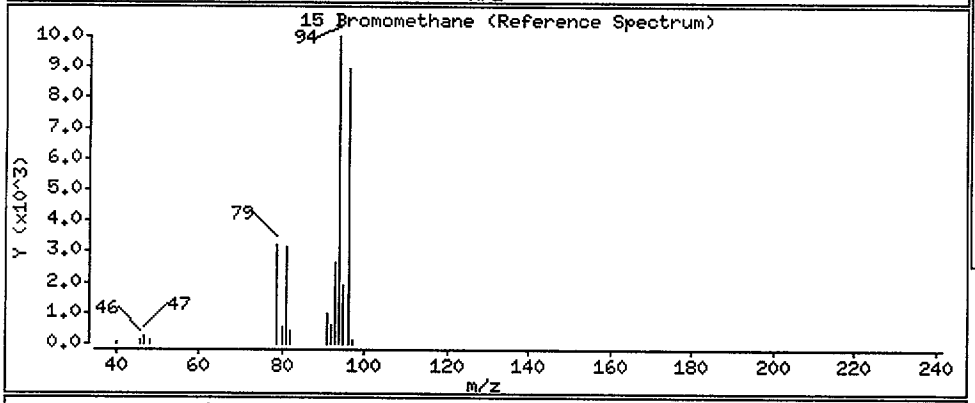
Concentration: 0.024595 ug

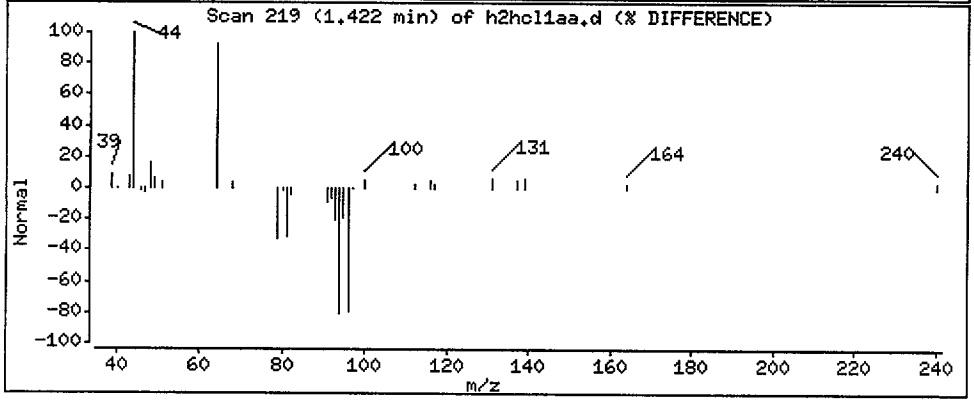












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

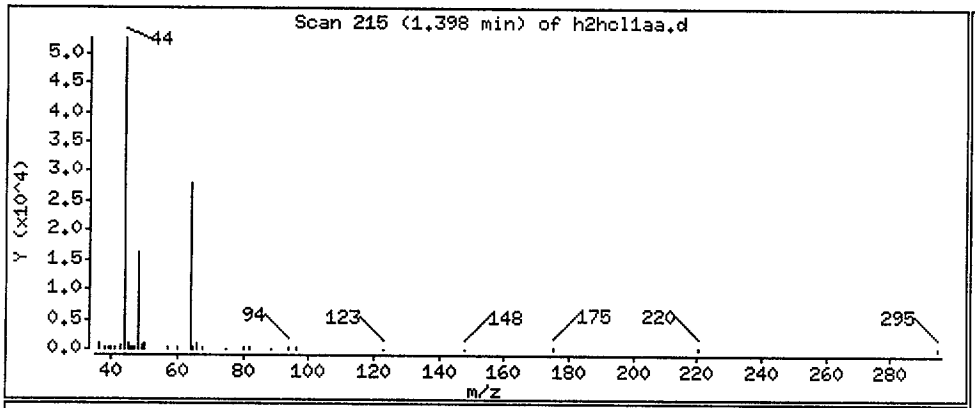
Operator: 22980

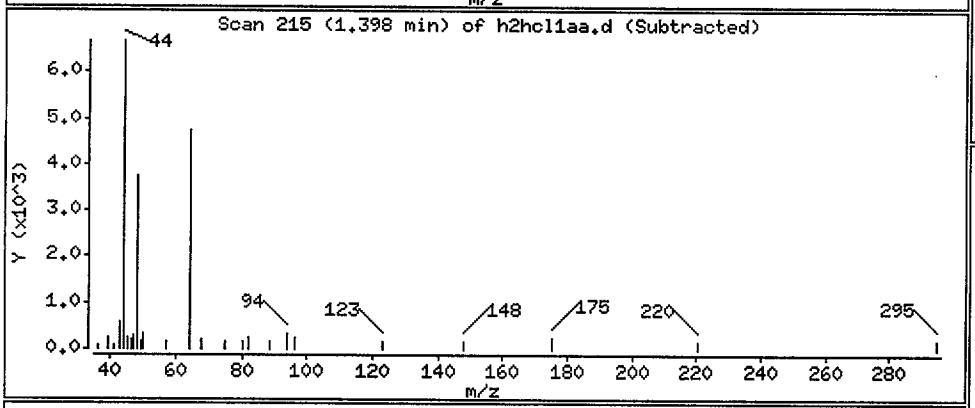
Column phase: J+W 624

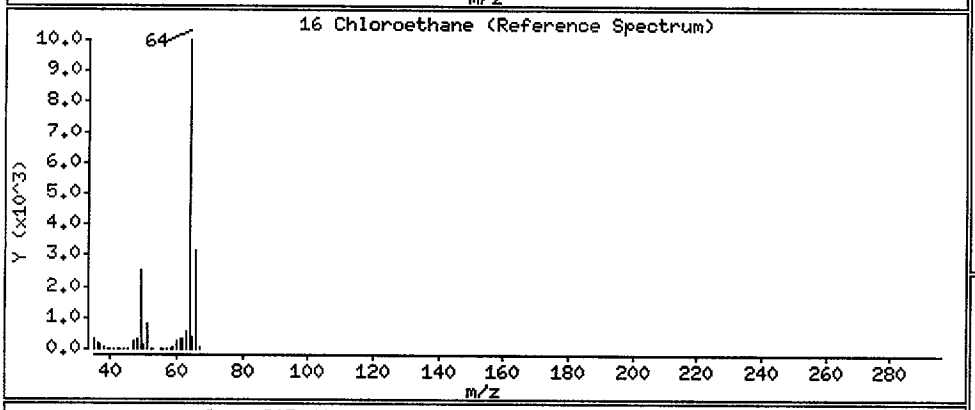
Column diameter: 0.18

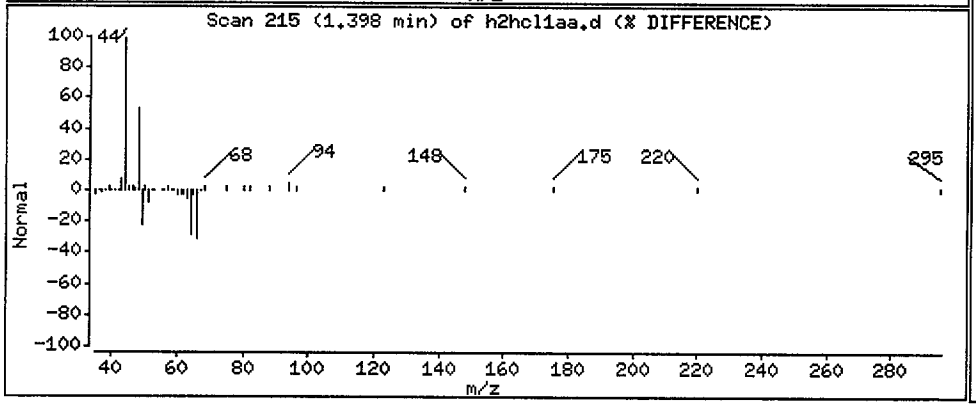
16 Chloroethane

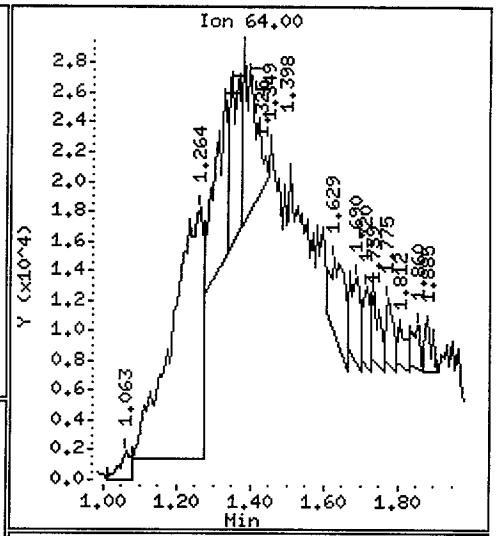
Concentration: 0.045714 ug

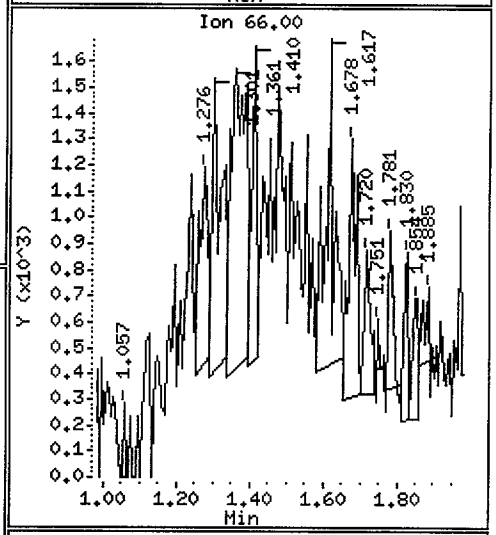


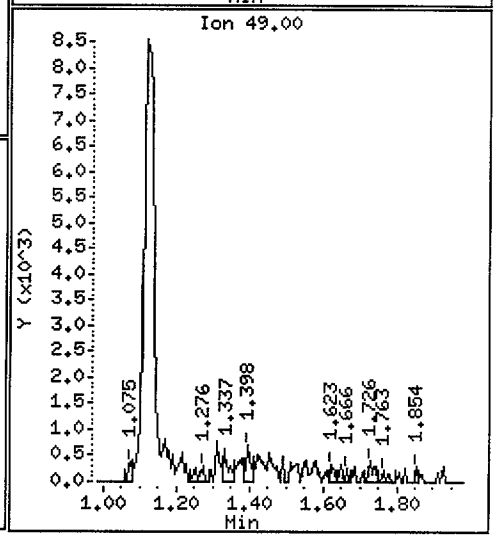












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

JW 4-14-06

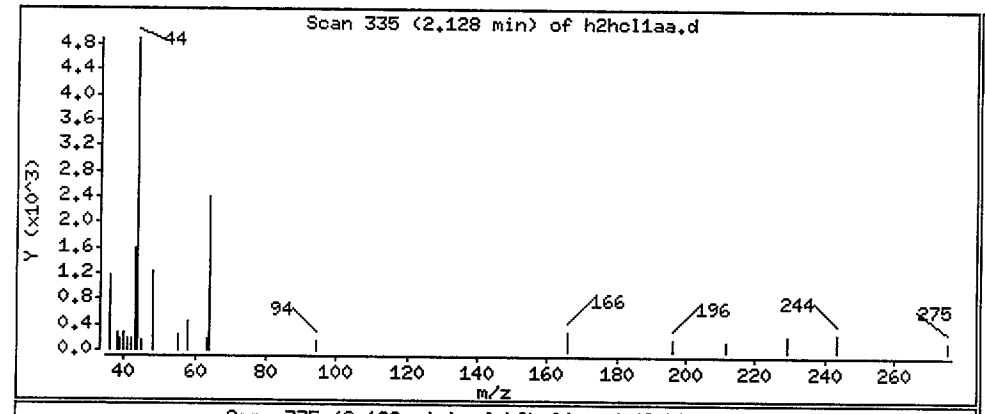
Operator: 22980

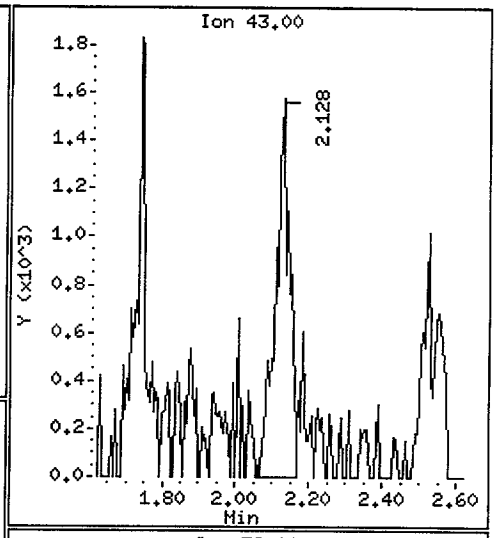
Column phase: J+W 624

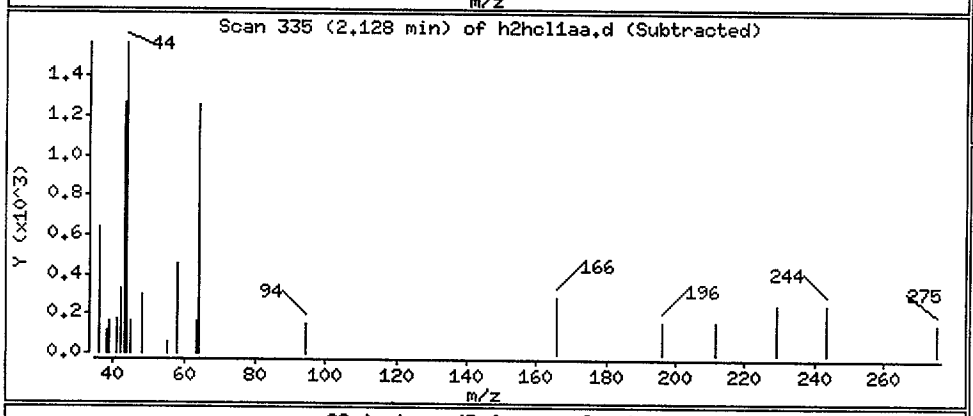
Column diameter: 0.18

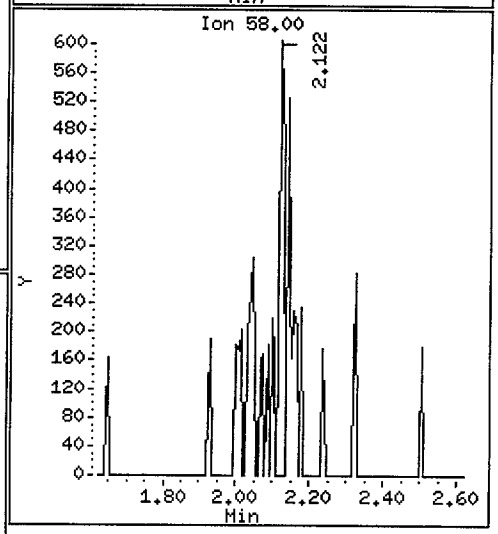
22 Acetone

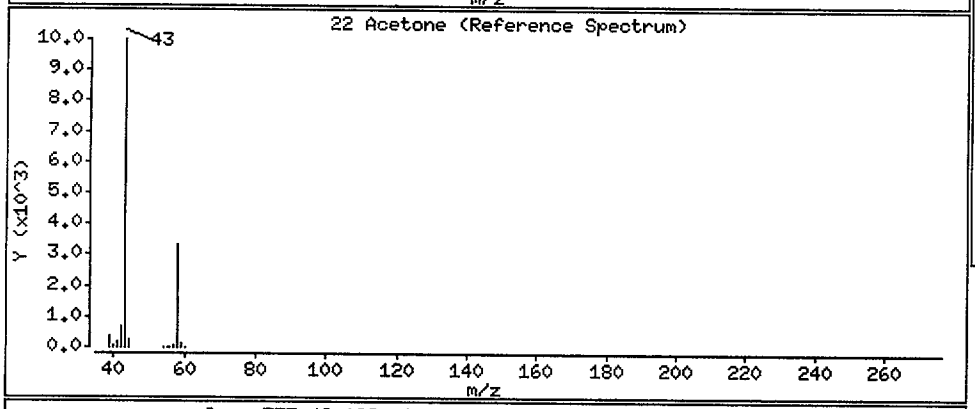
Concentration: 0.10374 ug

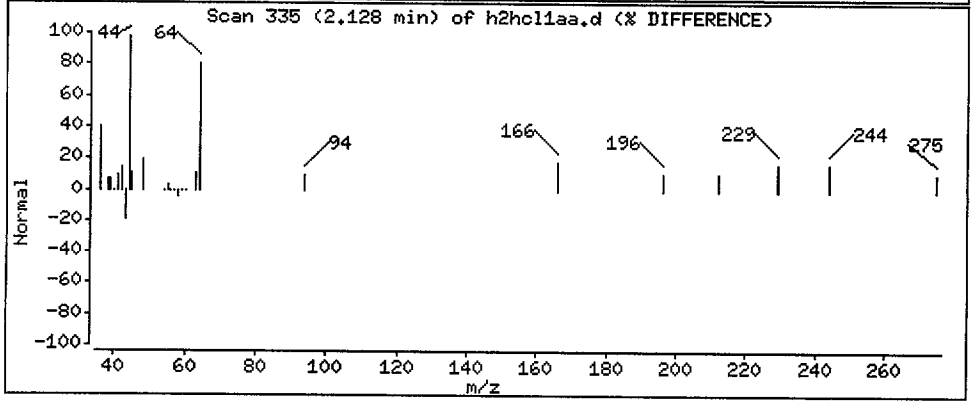












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

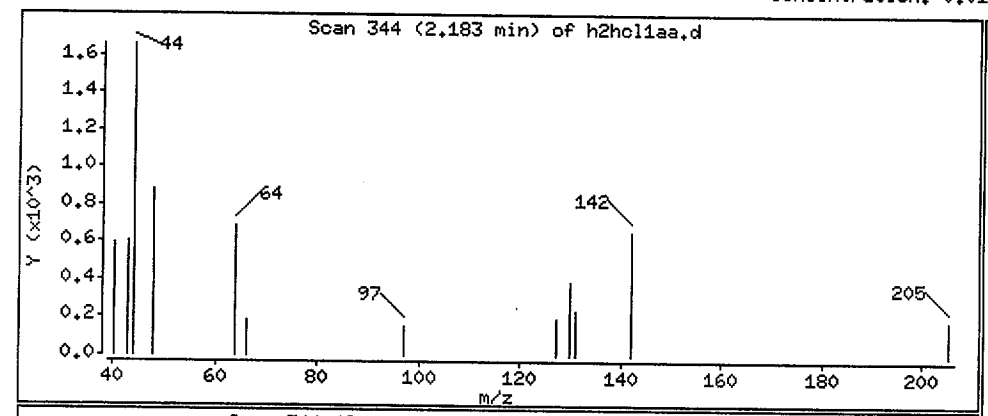
Operator: 22980

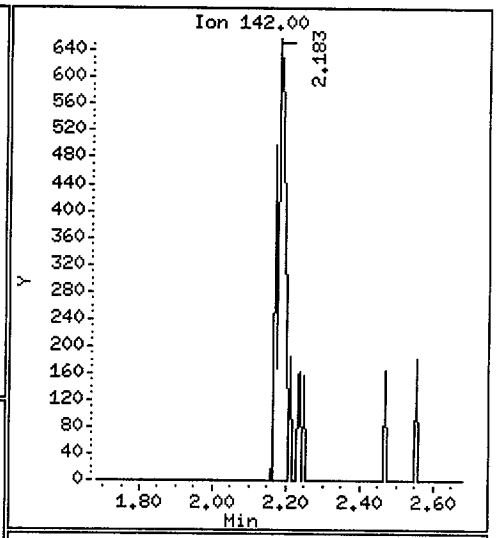
Column phase: J+W 624

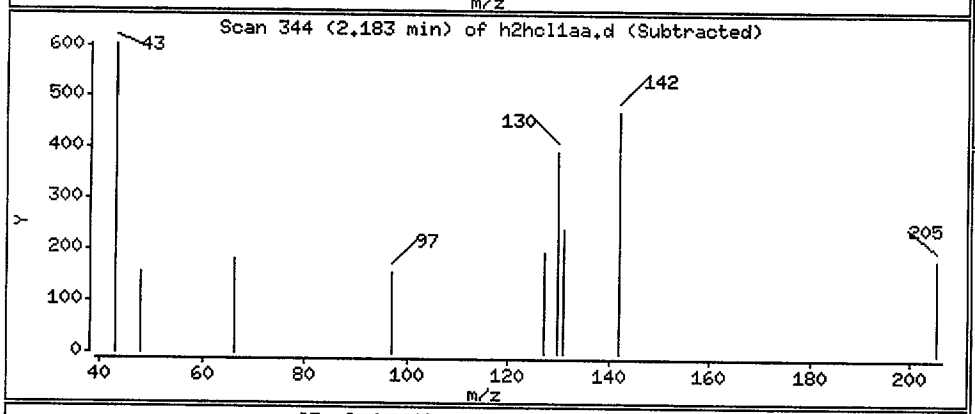
Column diameter: 0.18

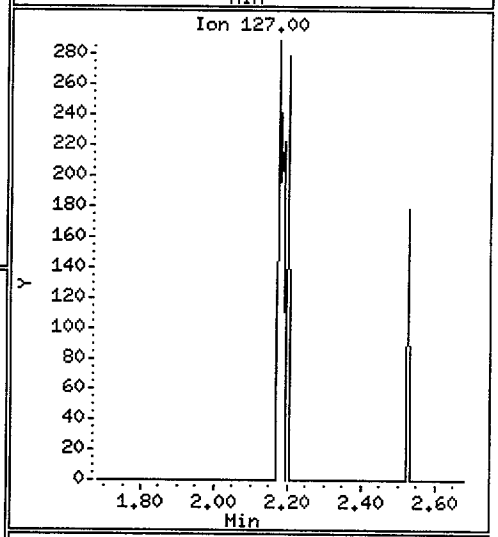
23 *Iodomethane

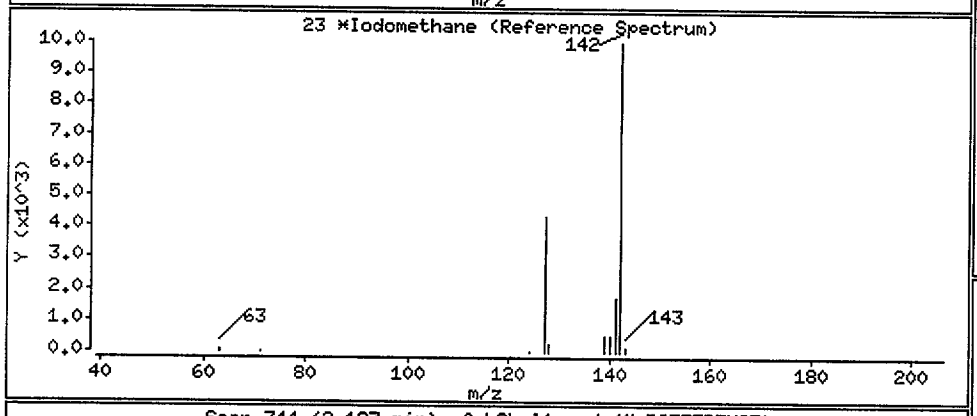
Concentration: 0.014204 ug

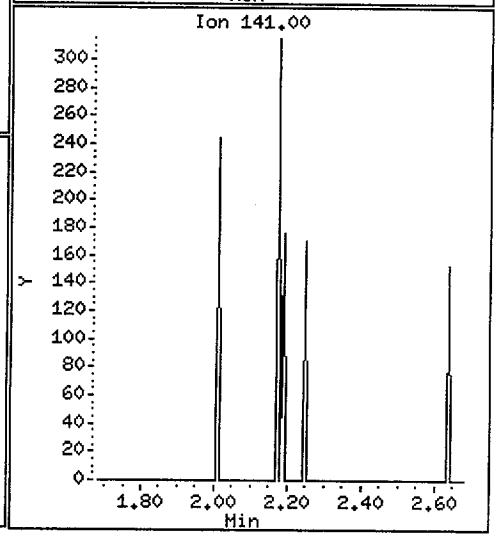


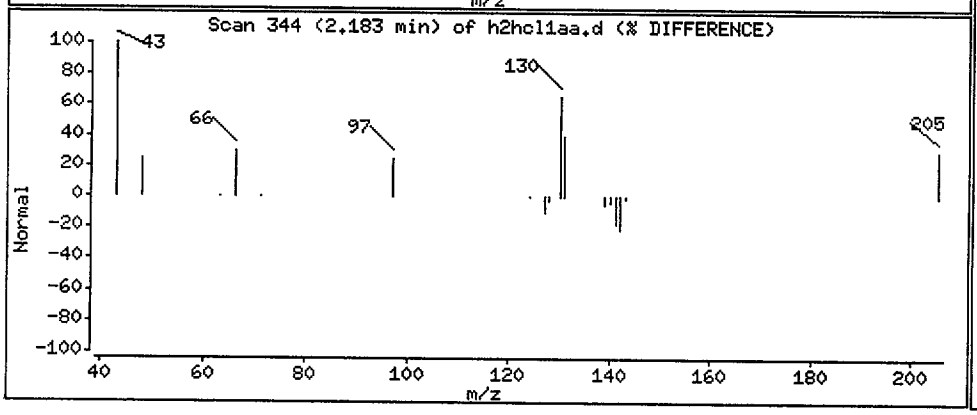












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

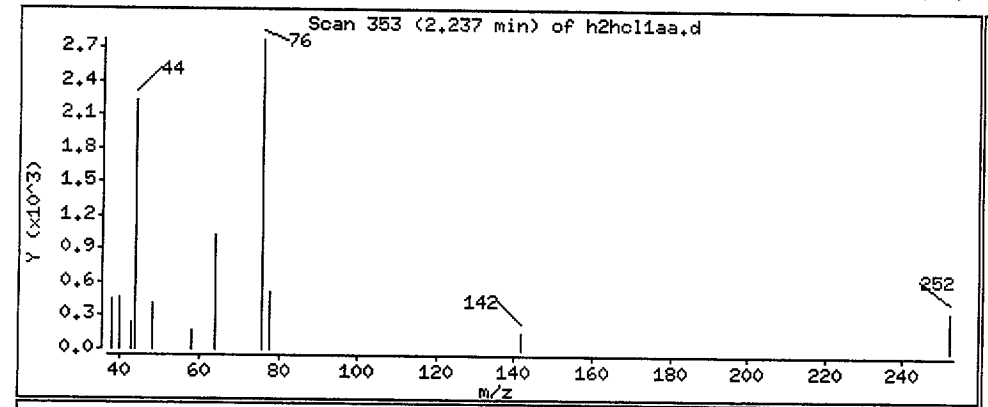
Operator: 22980

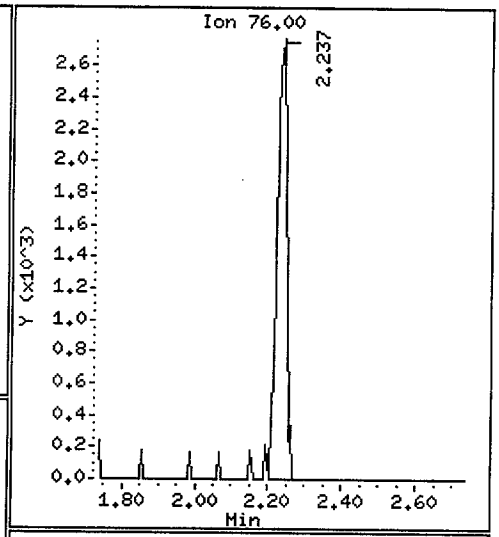
Column phase: J+W 624

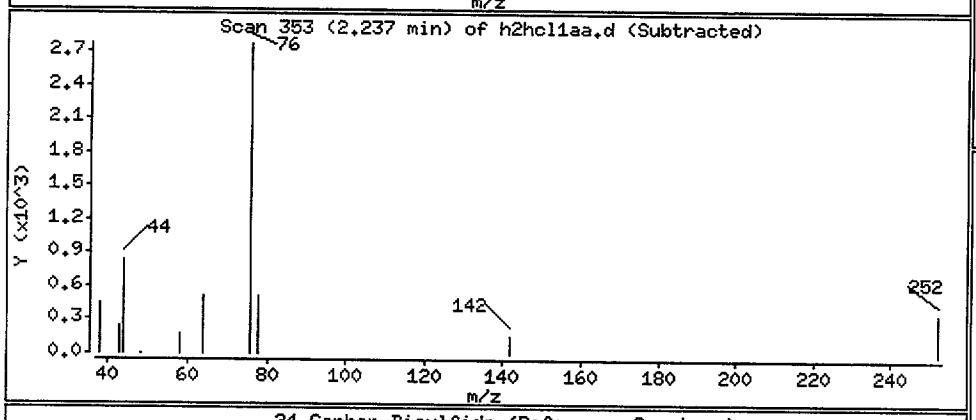
Column diameter: 0.18

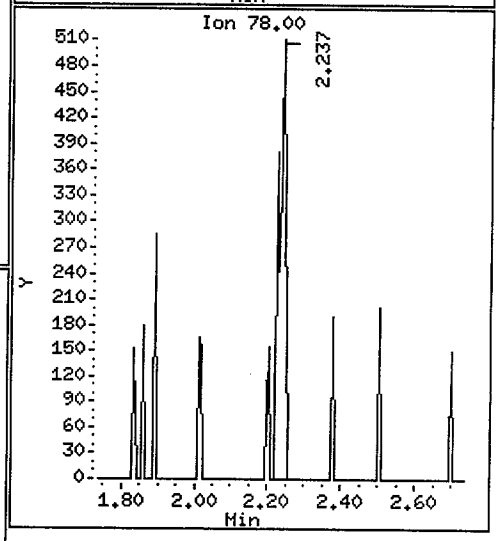
24 Carbon Disulfide

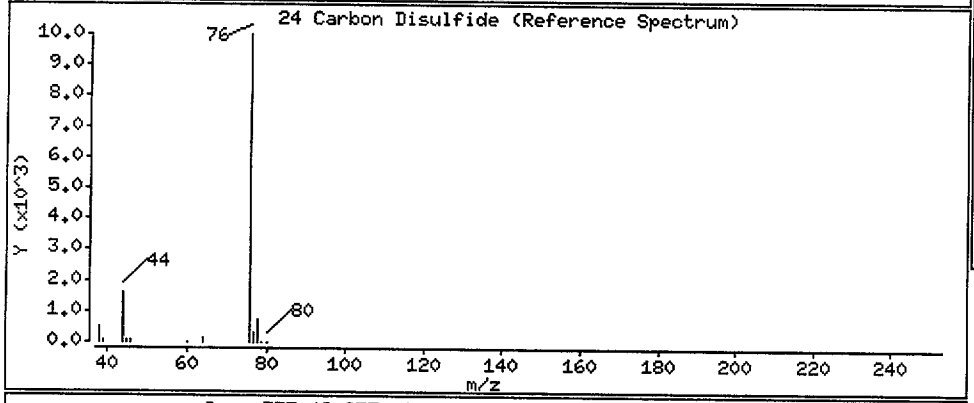
Concentration: 0.0021308 ug

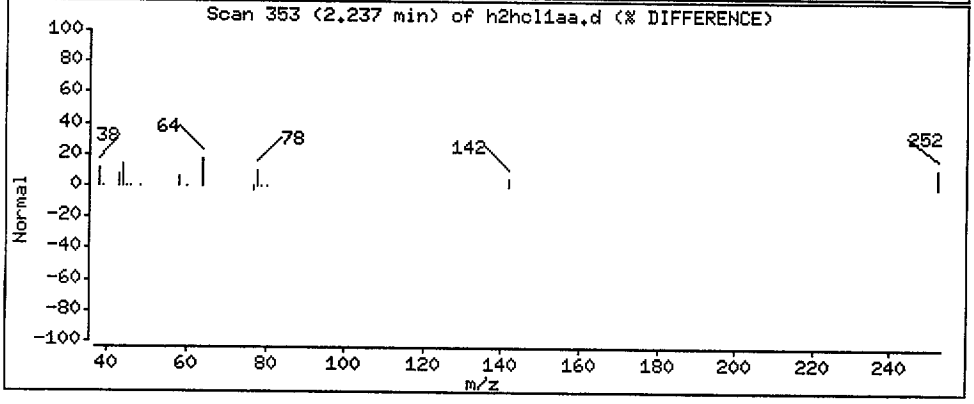












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

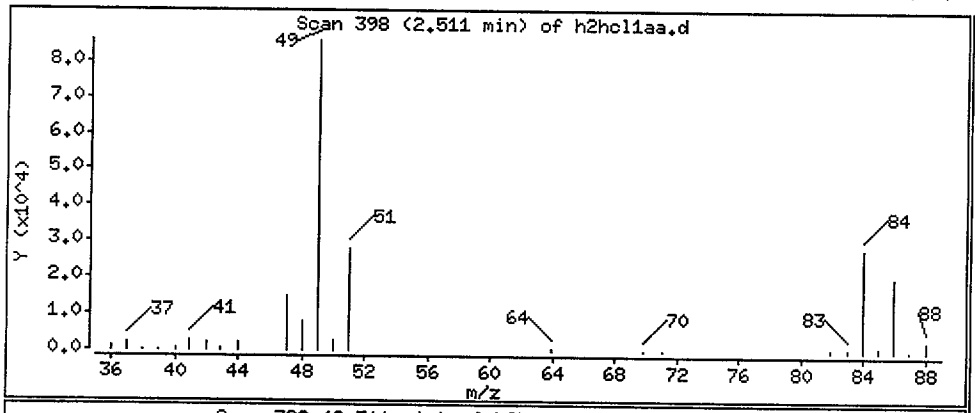
Operator: 22980

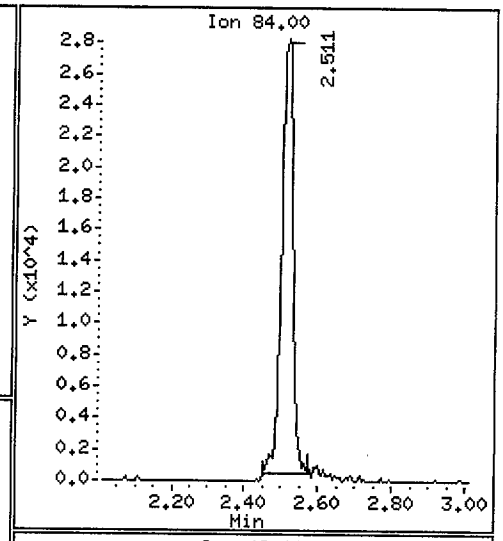
Column phase: J+W 624

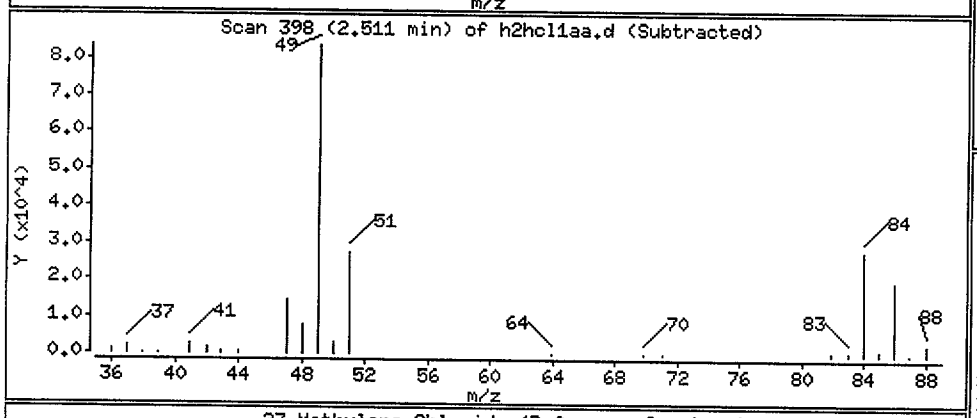
Column diameter: 0.18

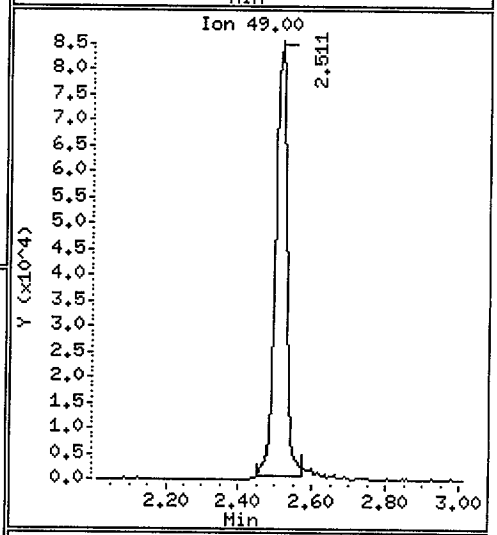
27 Methylene Chloride

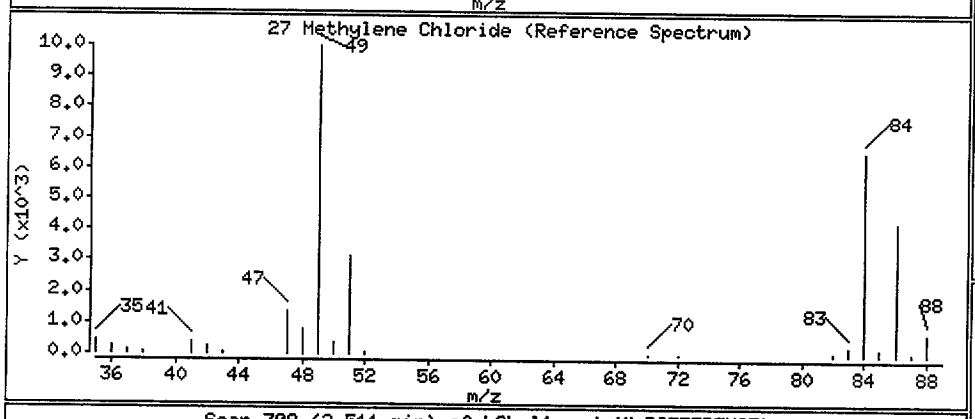
Concentration: 0.11552 ug

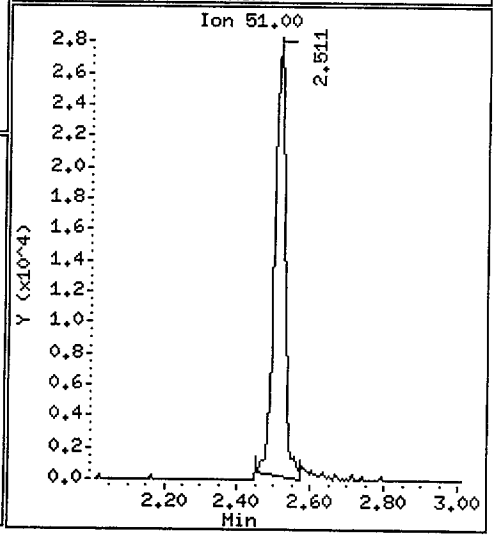


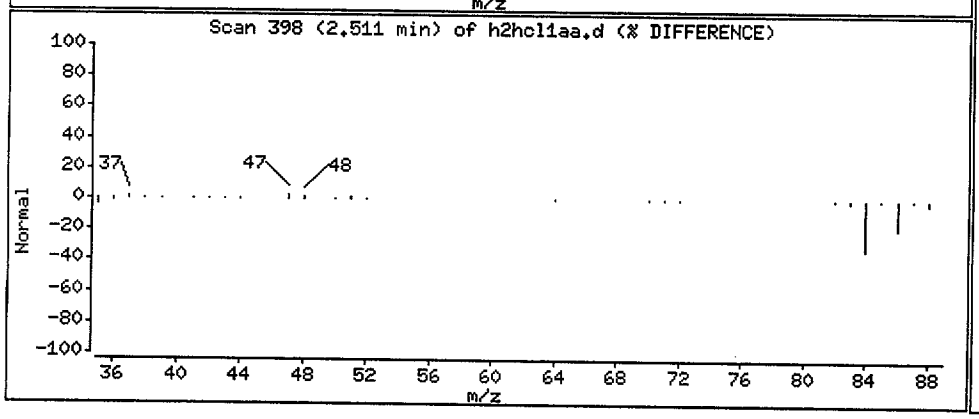












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

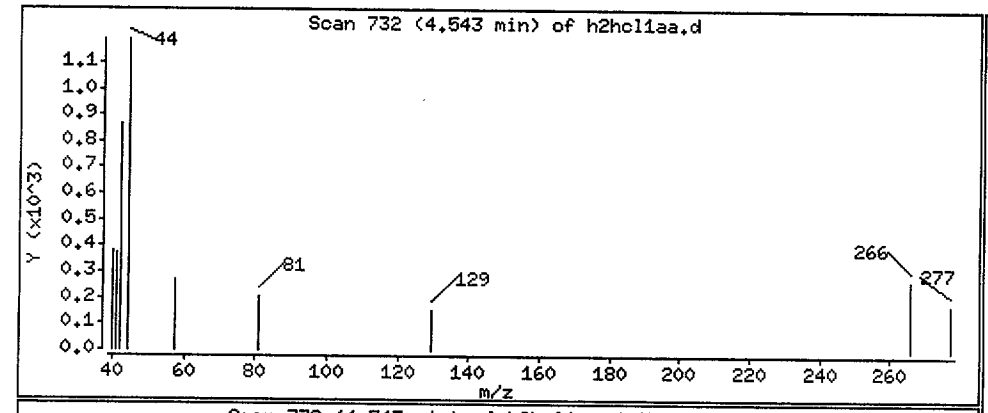
Operator: 22980

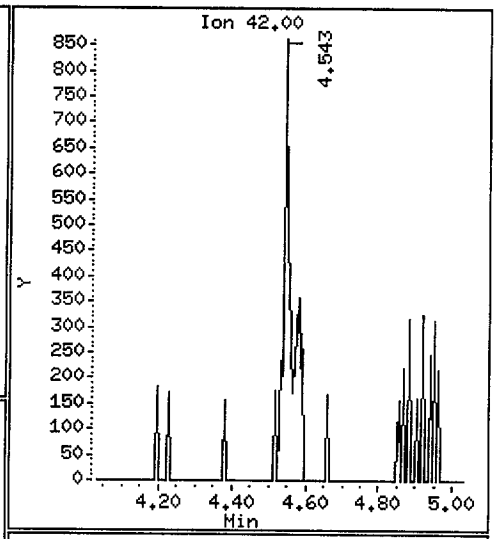
Column phase: J+W 624

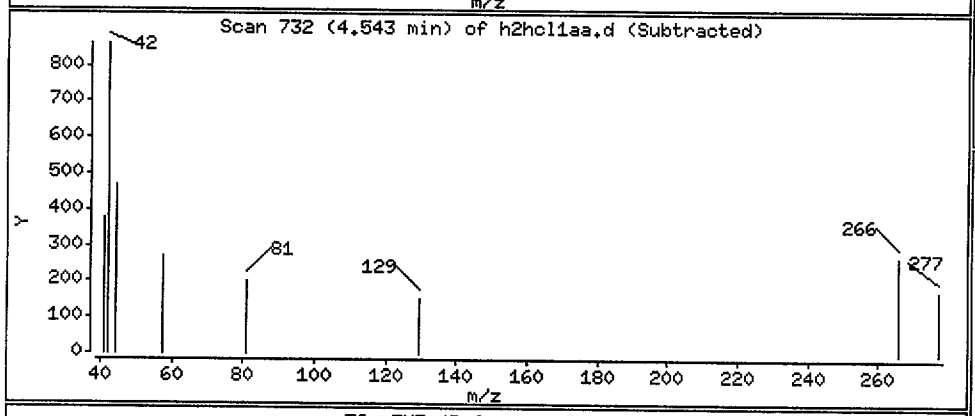
Column diameter: 0.18

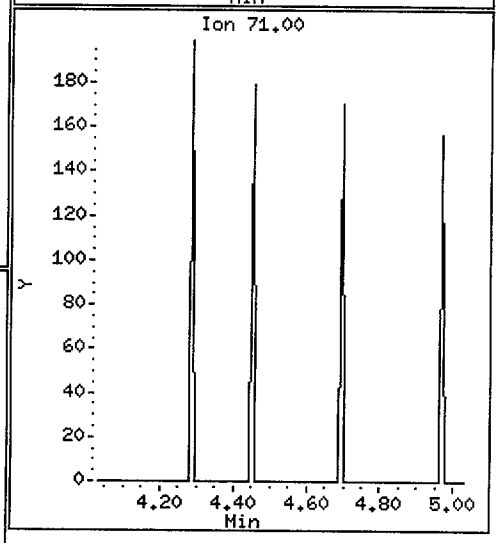
39 *THF

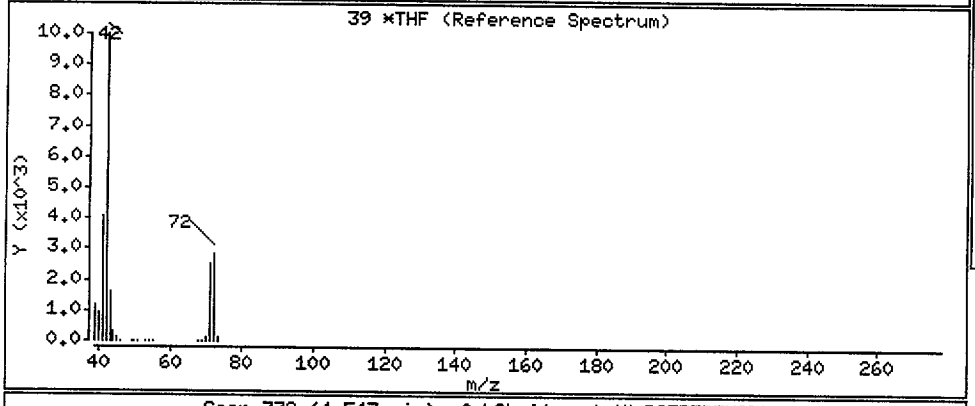
Concentration: 0.018878 ug

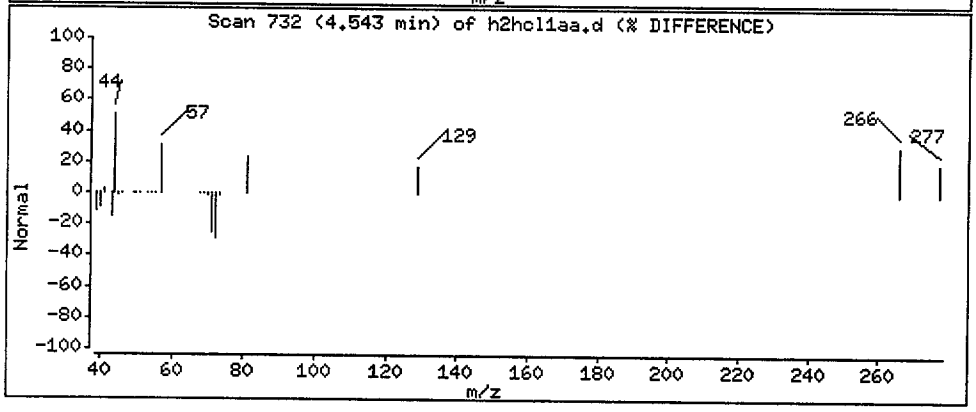












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

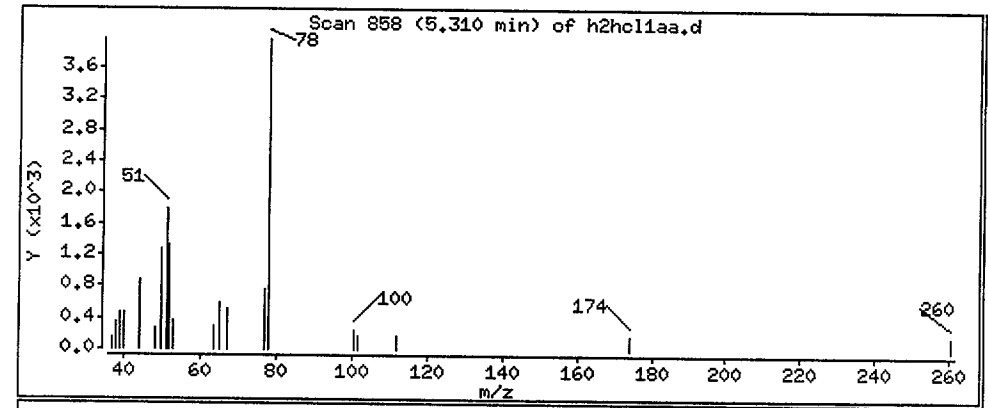
Operator: 22980

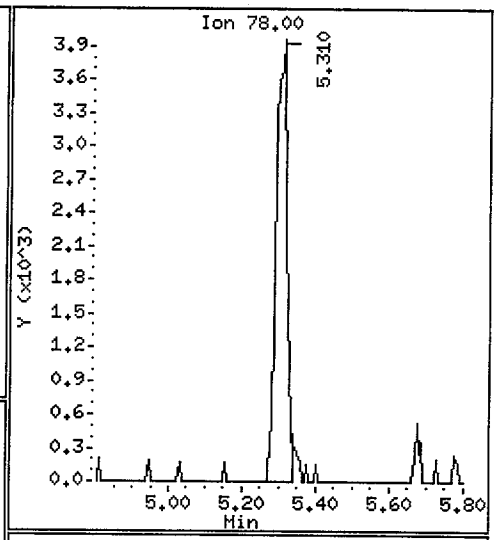
Column phase: J+W 624

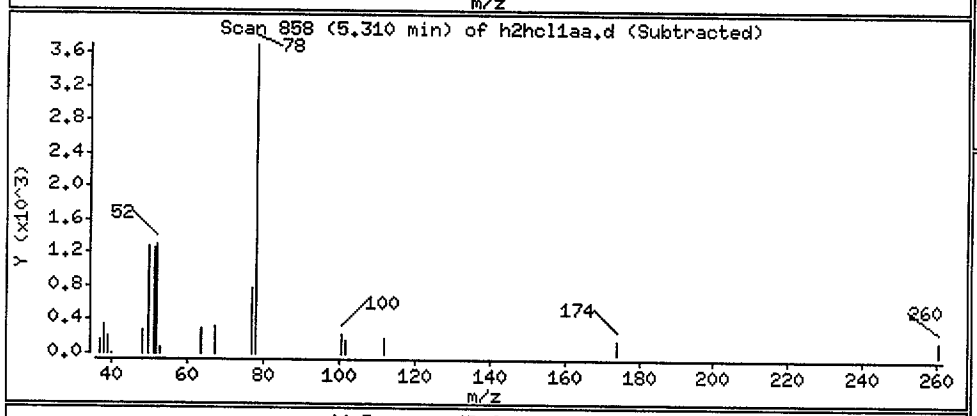
Column diameter: 0.18

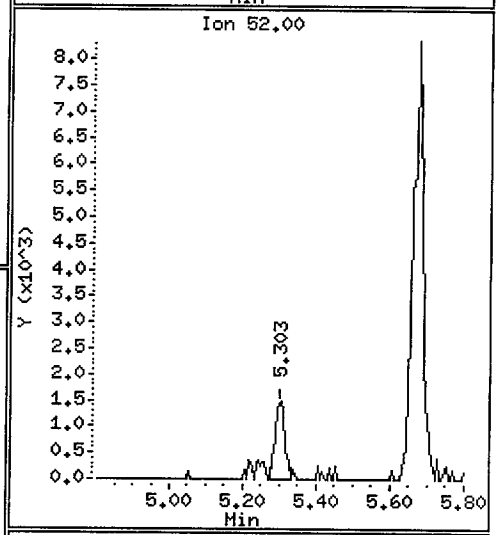
44 Benzene

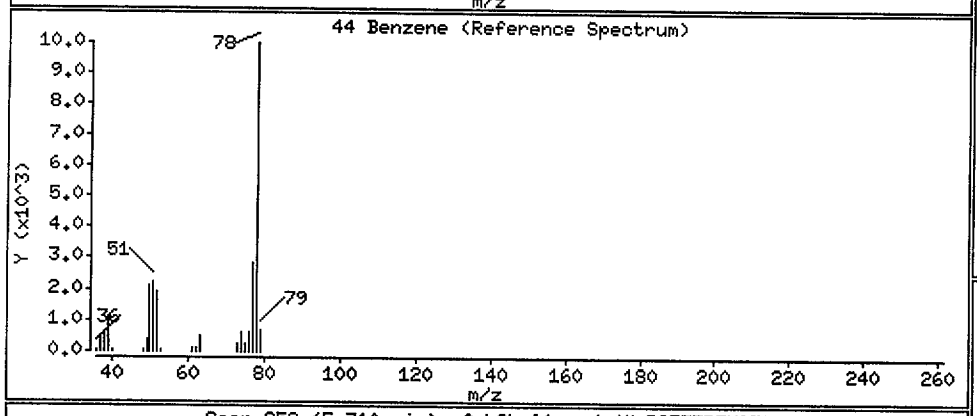
Concentration: 0.0027234 ug

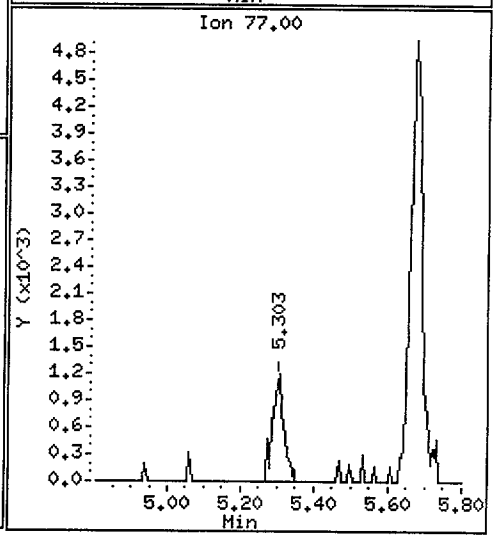


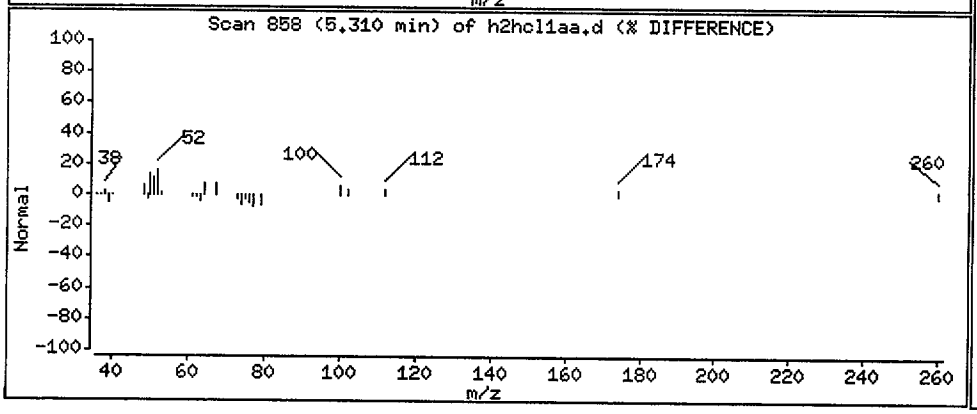












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

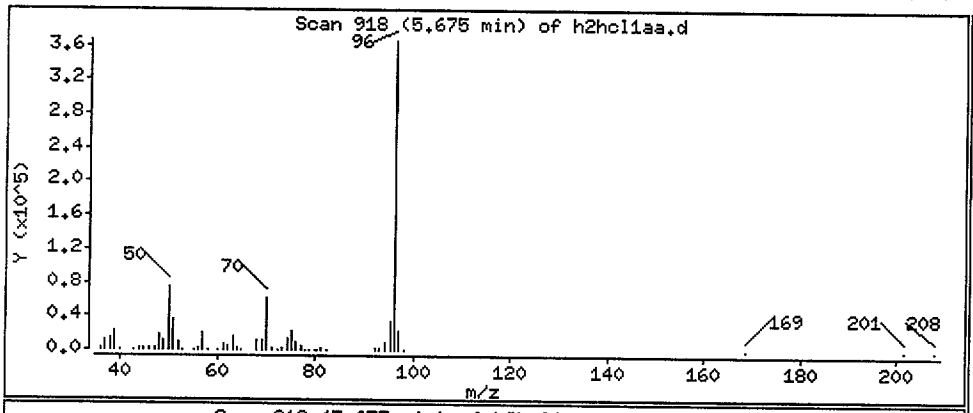
Operator: 22980

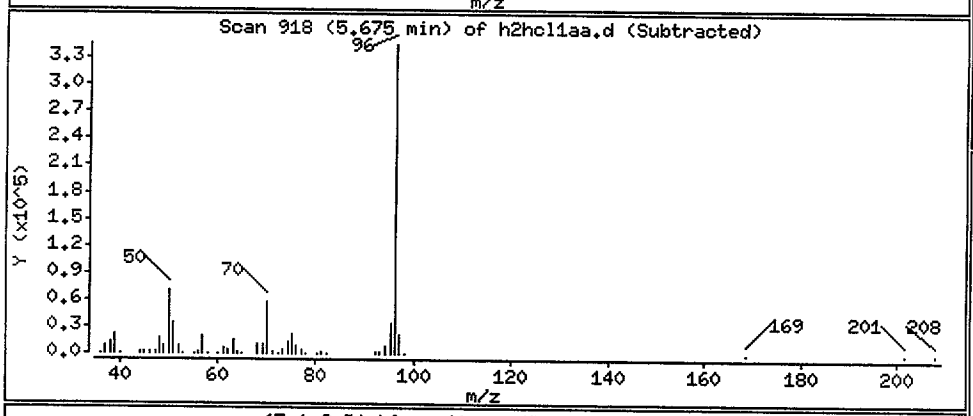
Column phase: J+W 624

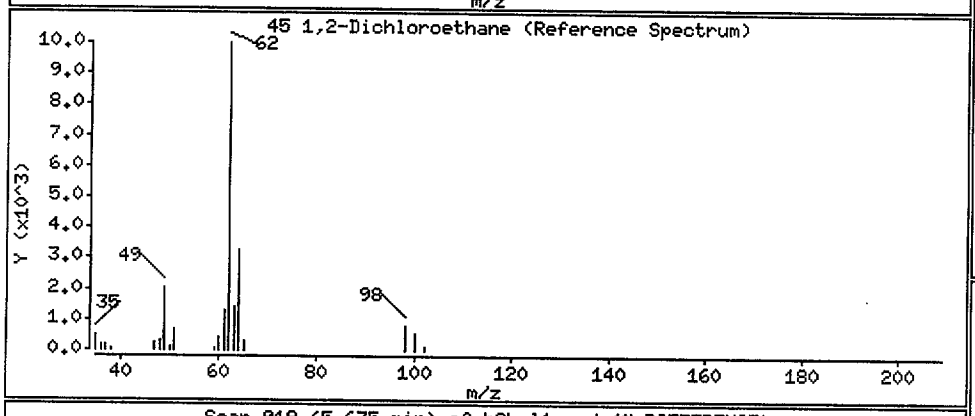
Column diameter: 0.18

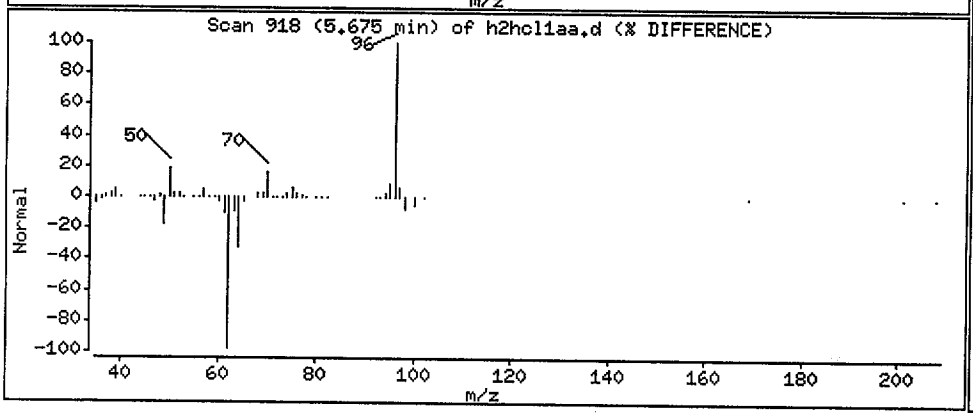
45 1,2-Dichloroethane

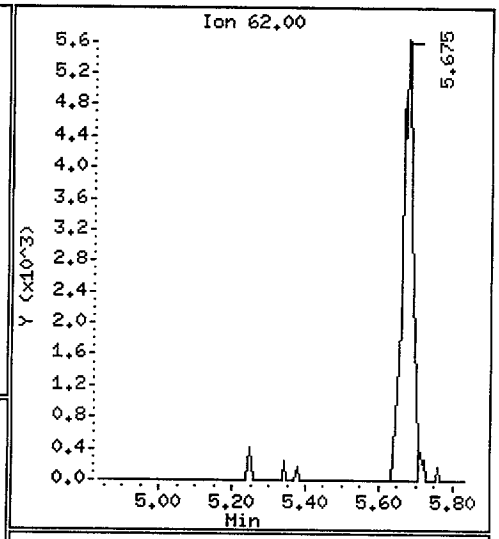
Concentration: 0.018445 ug

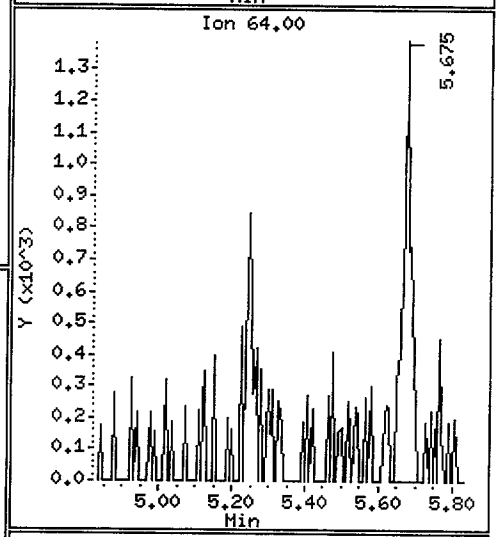


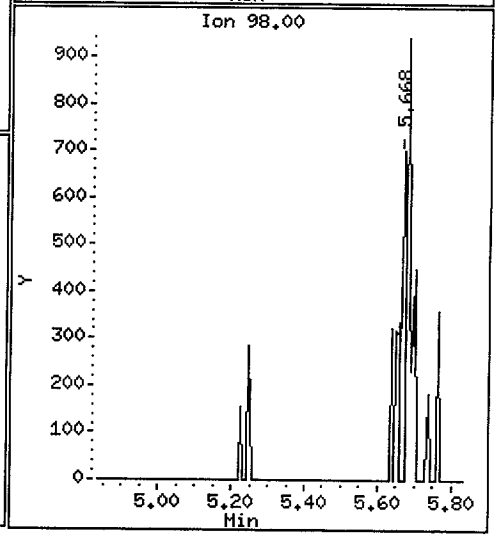












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

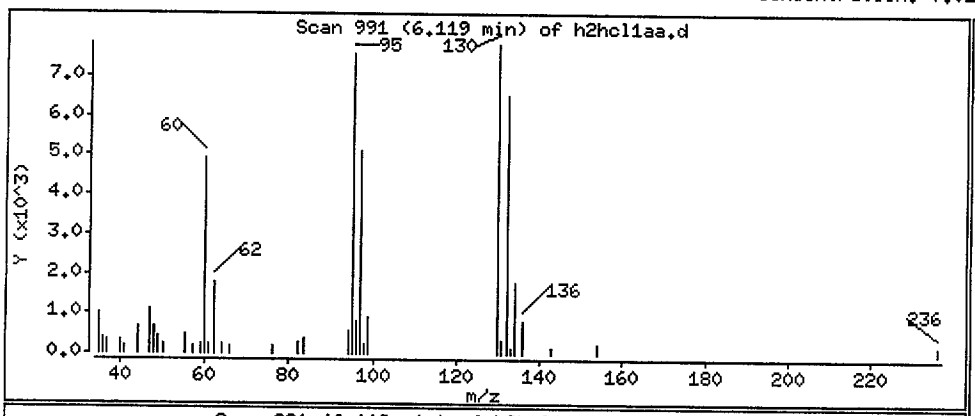
Operator: 22980

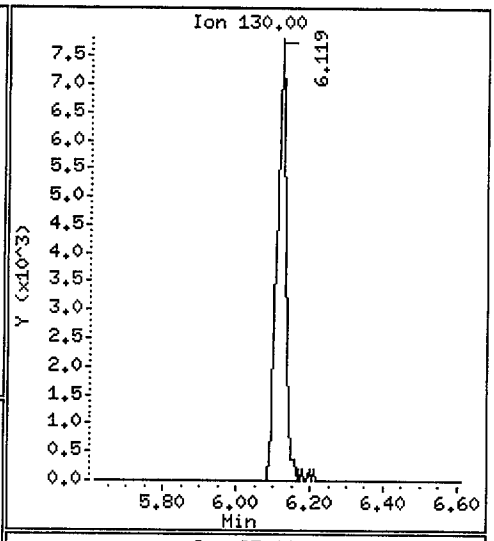
Column phase: J+W 624

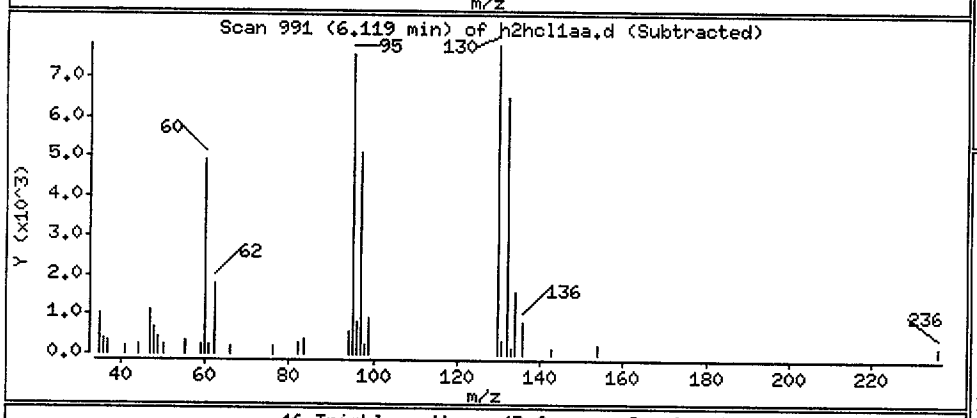
Column diameter: 0.18

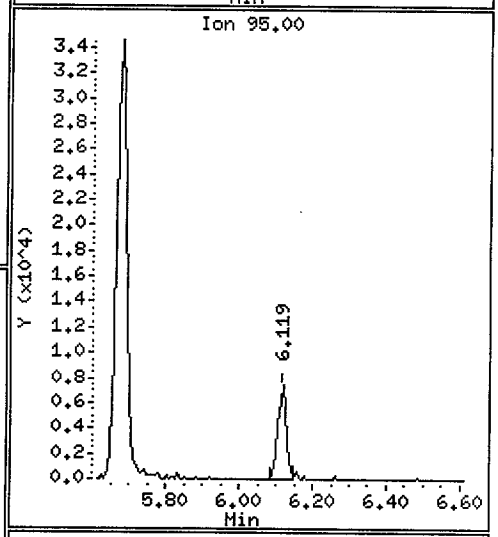
46 Trichloroethene

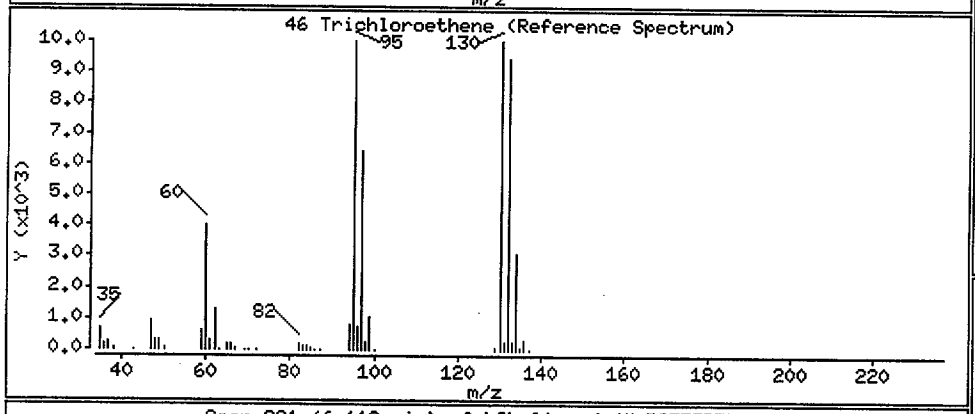
Concentration: 0.016074 ug

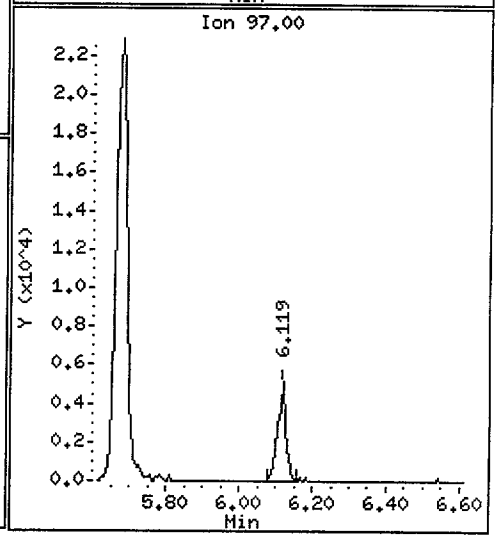


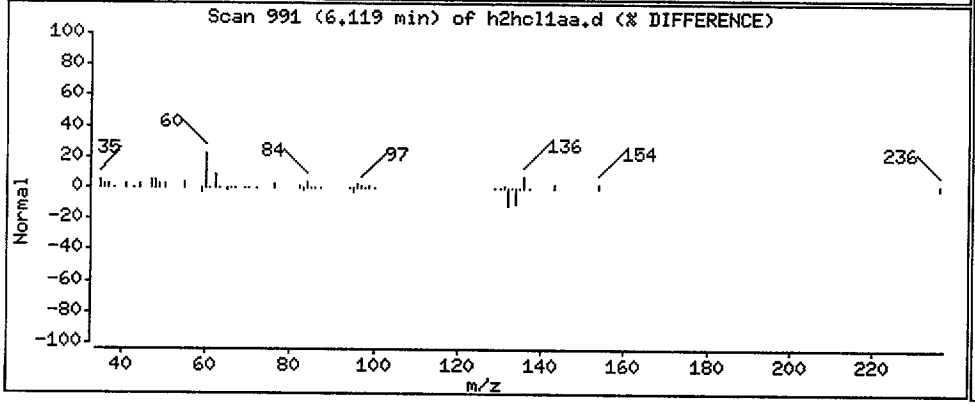












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

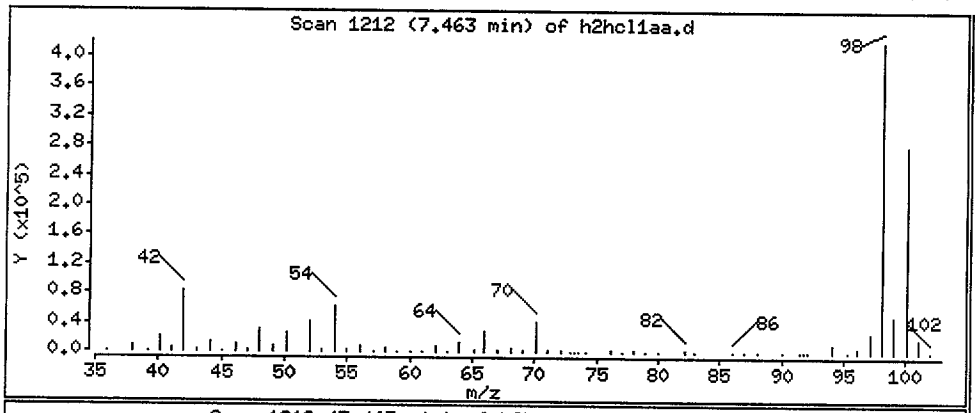
Operator: 22980

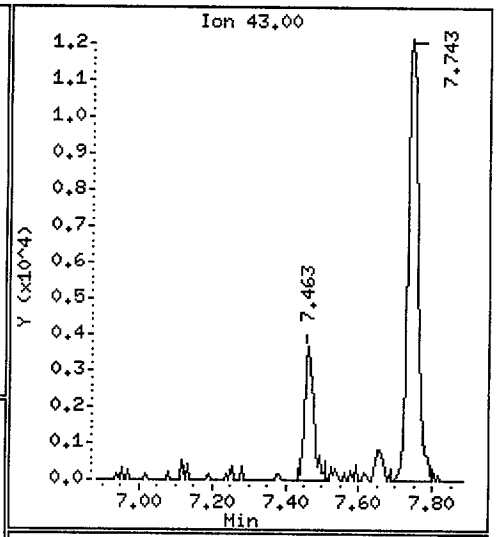
Column phase: J+W 624

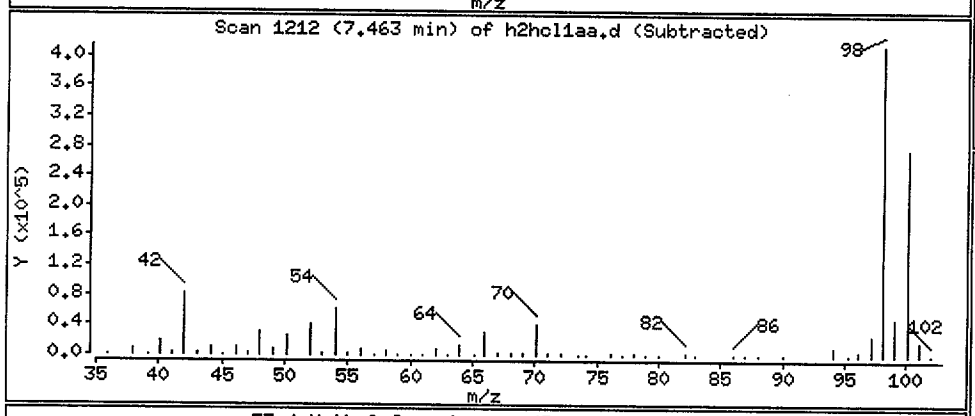
Column diameter: 0.18

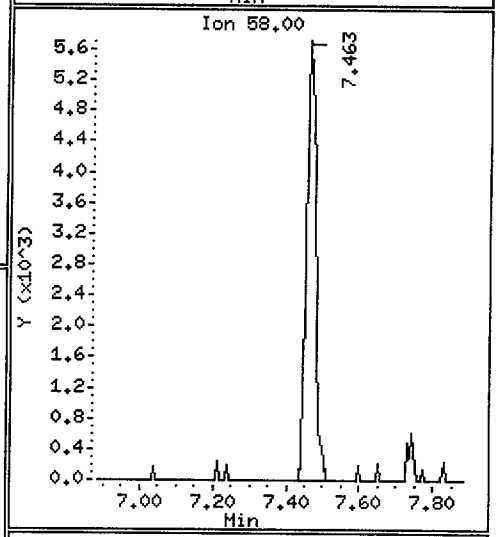
53 4-Methyl-2-pentanone

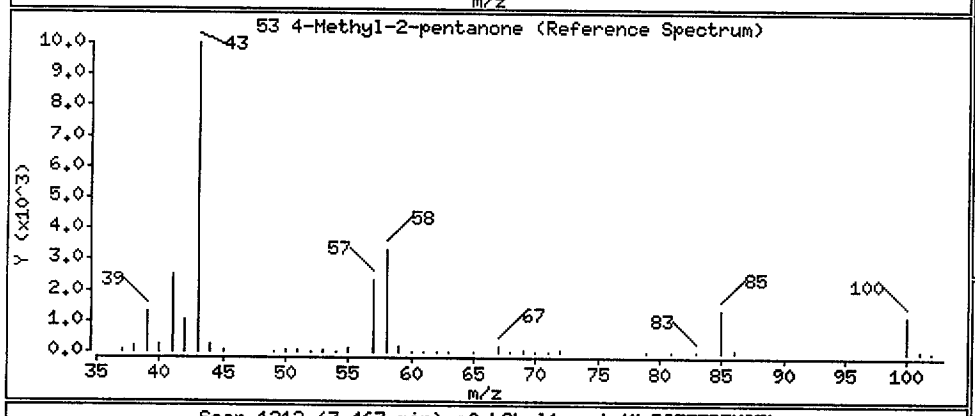
Concentration: 0.022645 ug

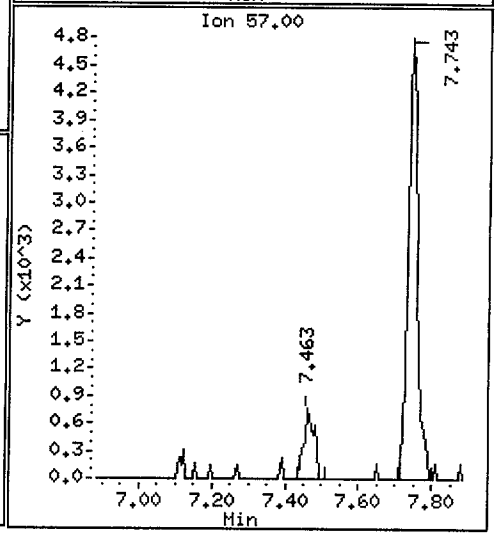


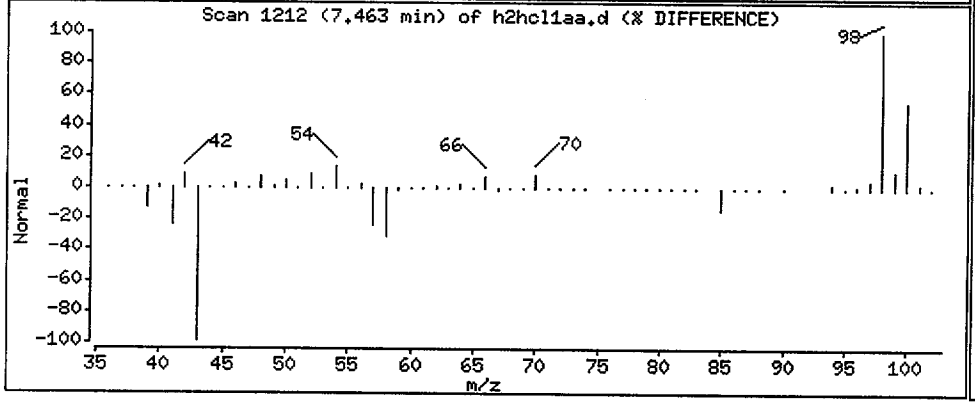












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

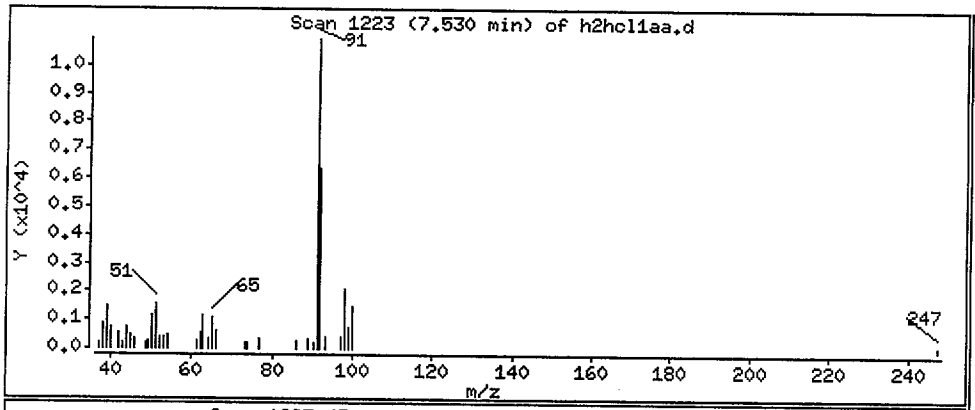
Operator: 22980

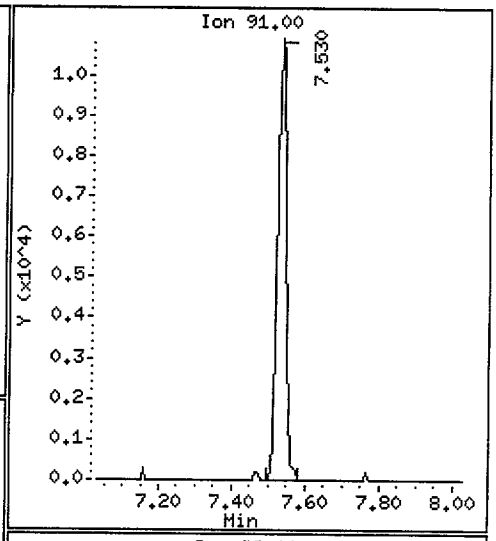
Column phase: J+W 624

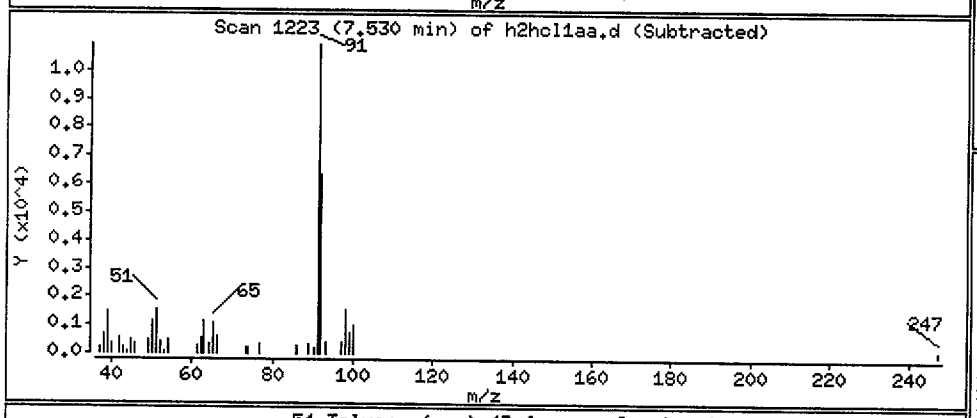
Column diameter: 0.18

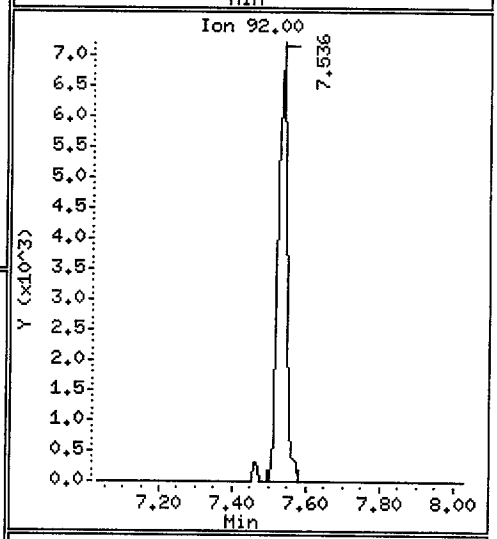
54 Toluene (ccc)

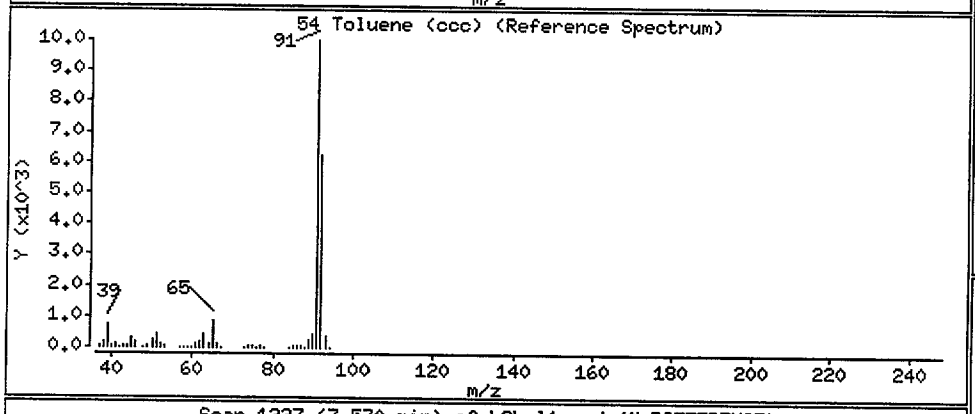
Concentration: 0.0043240 ug

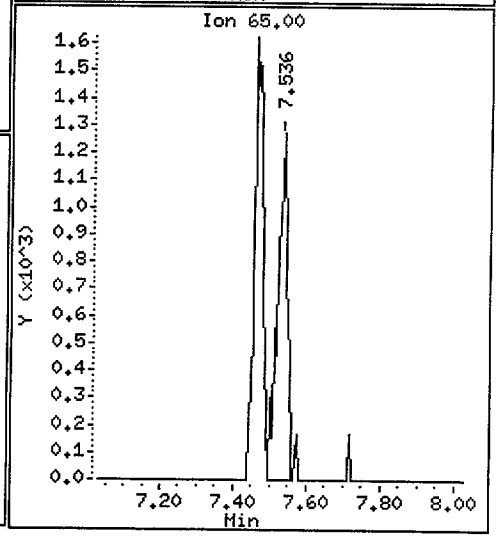


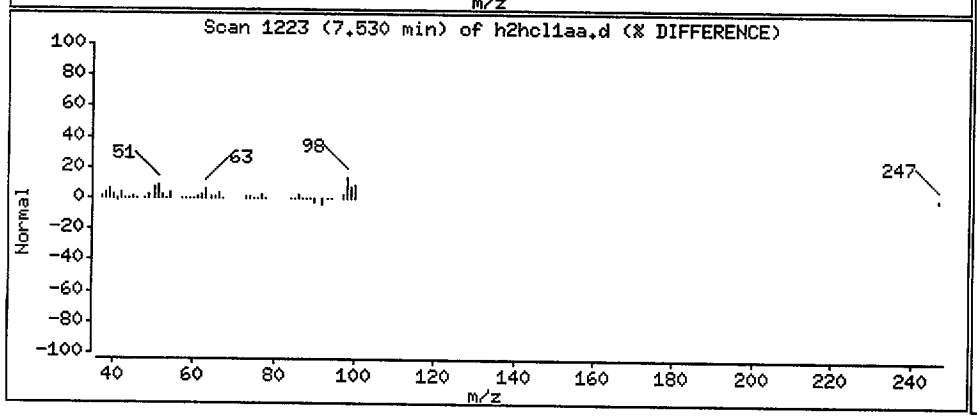












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

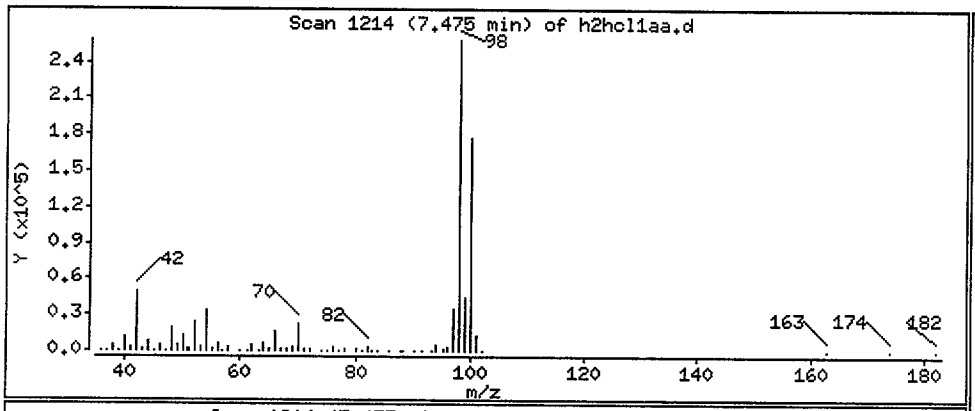
Operator: 22980

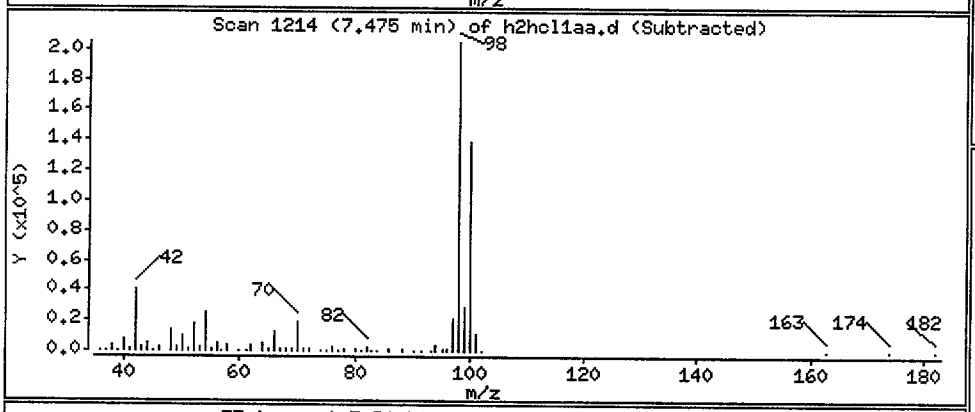
Column phase: J+W 624

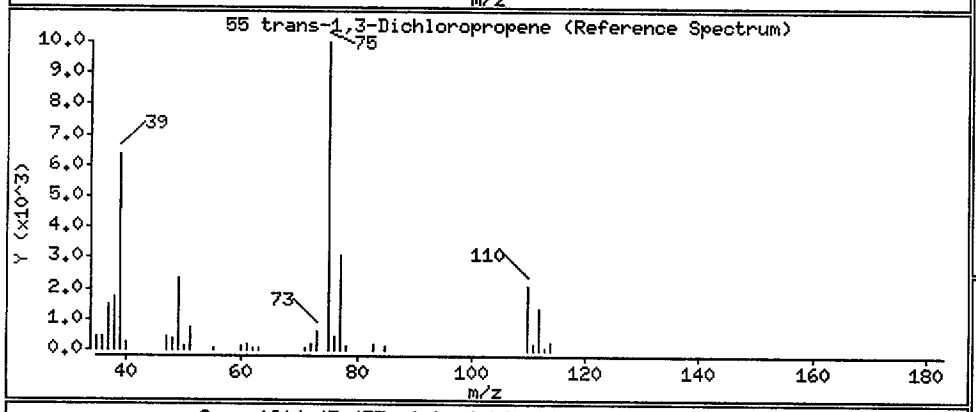
Column diameter: 0.18

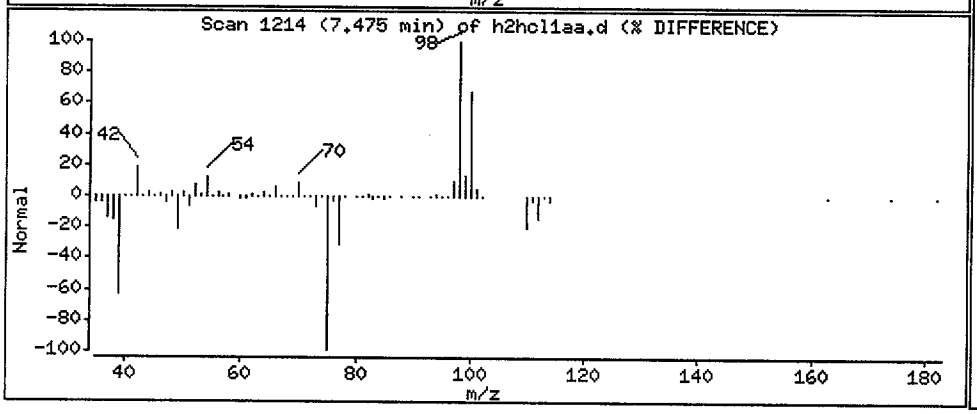
55 trans-1,3-Dichloropropene

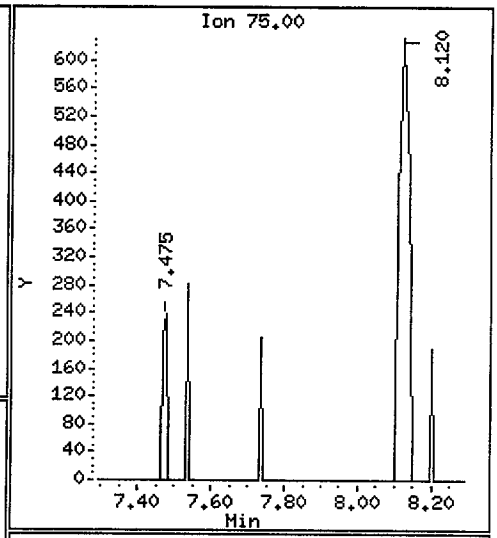
Concentration: 0.015887 ug

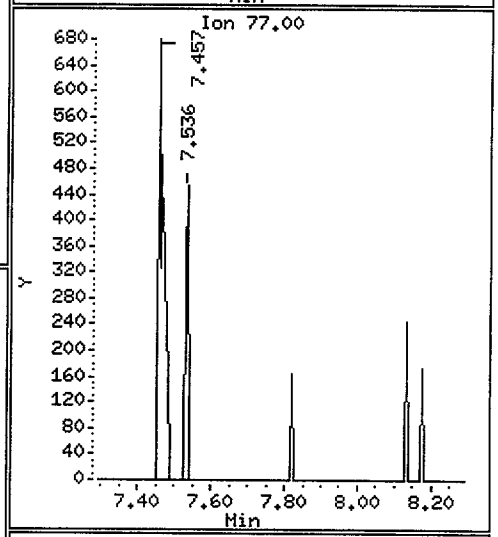


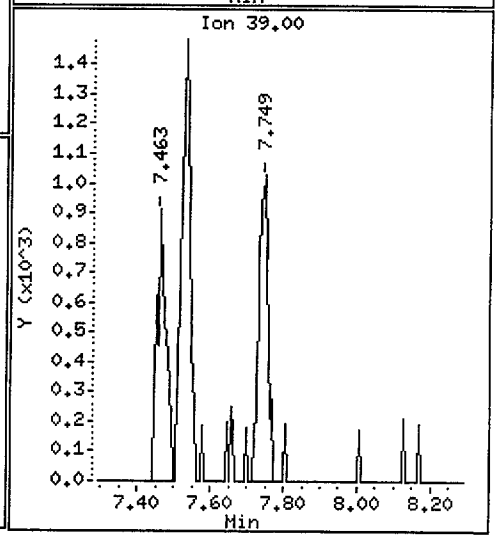












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

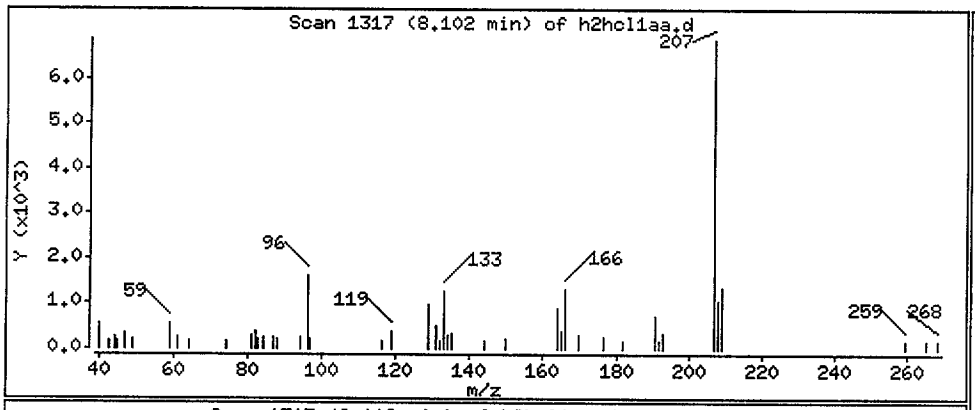
Operator: 22980

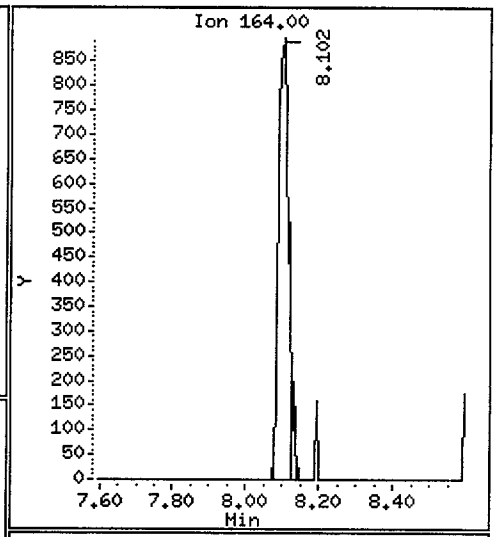
Column phase: J+W 624

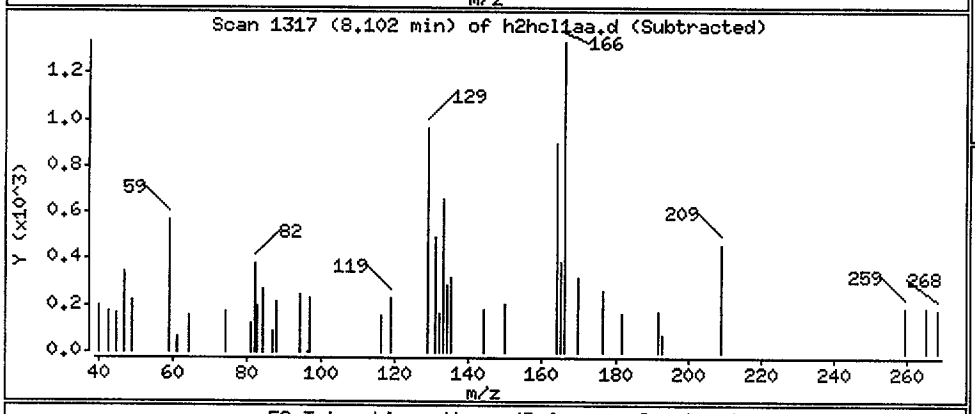
Column diameter: 0.18

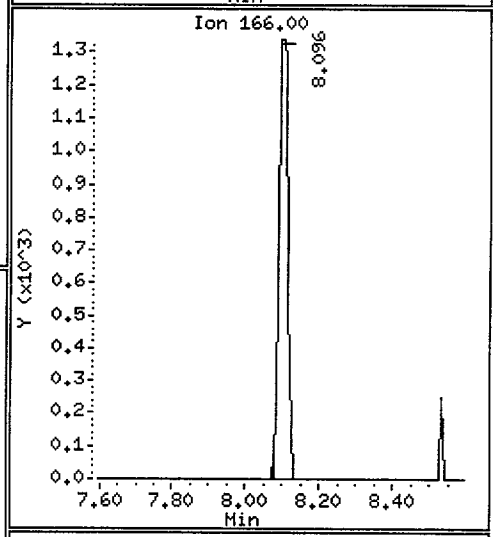
58 Tetrachloroethene

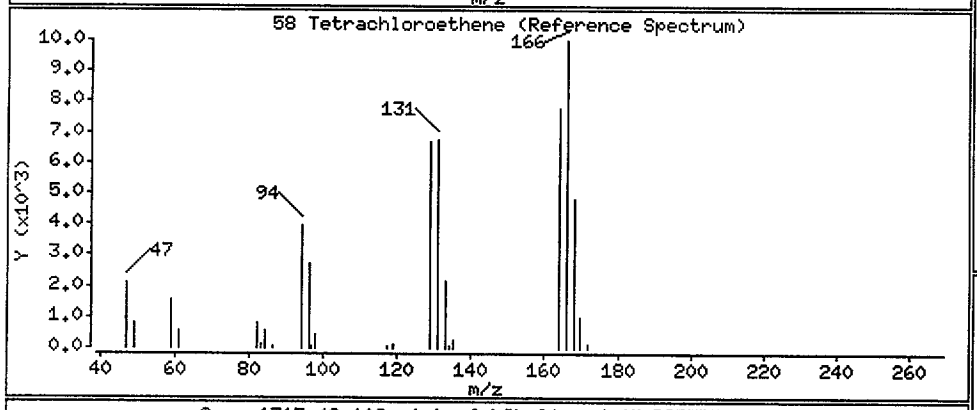
Concentration: 0.0020130 ug

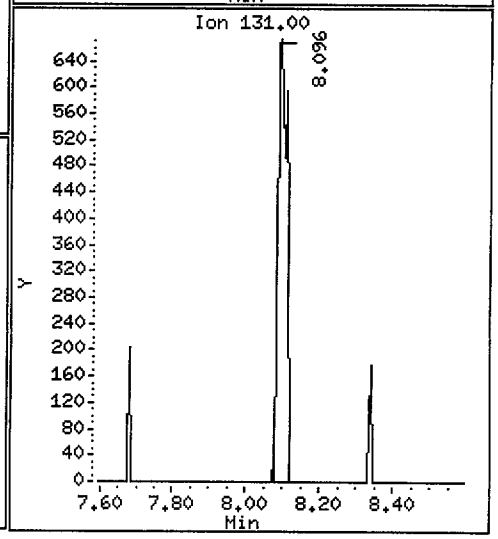


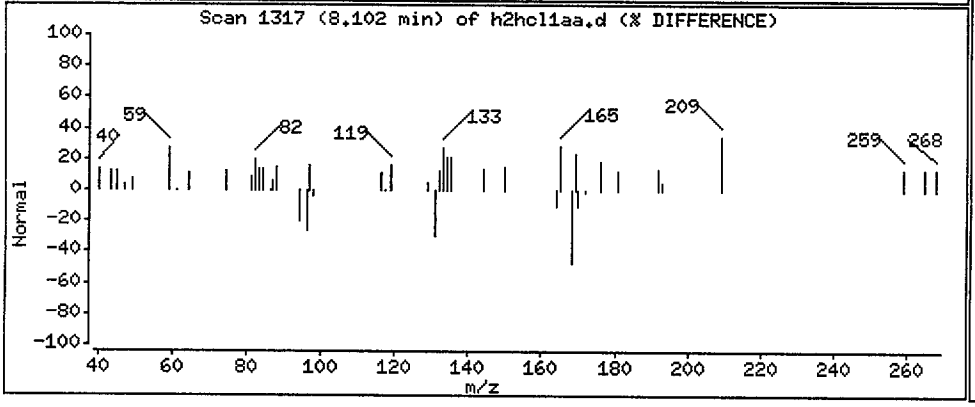












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

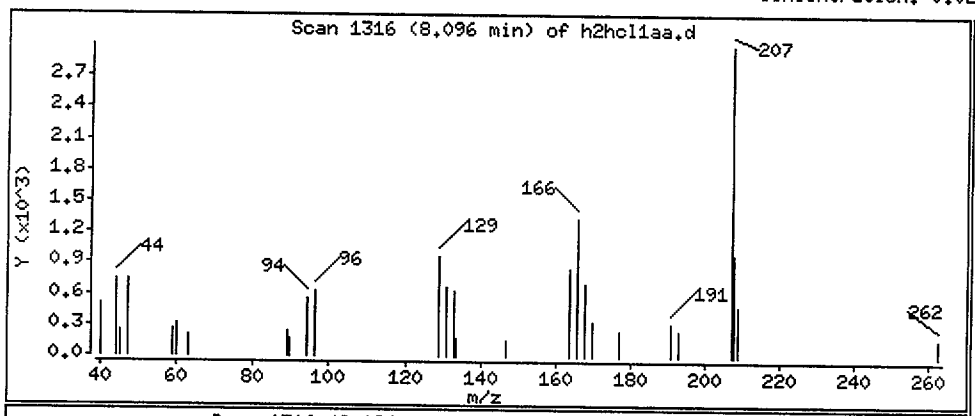
Operator: 22980

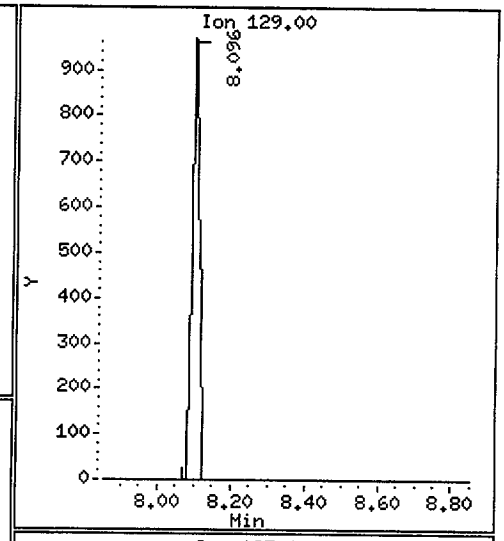
Column phase: J+W 624

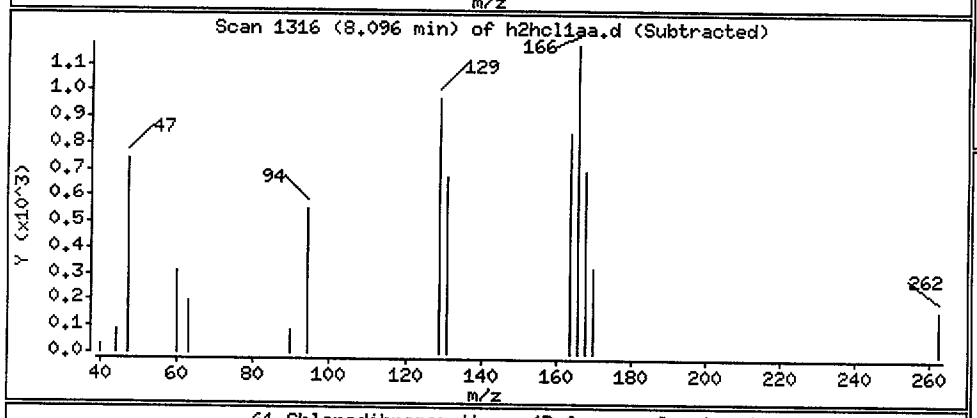
Column diameter: 0.18

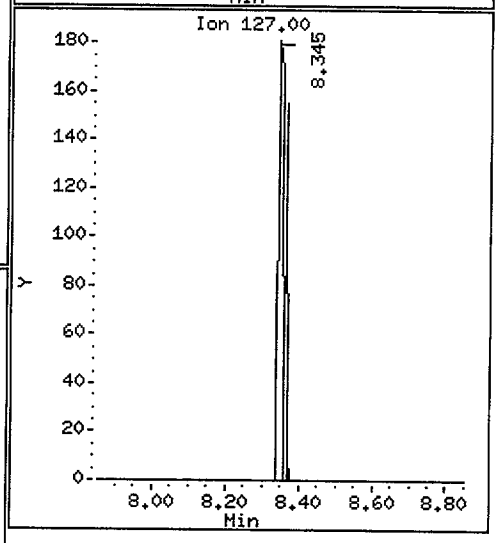
61 Chlorodibromomethane

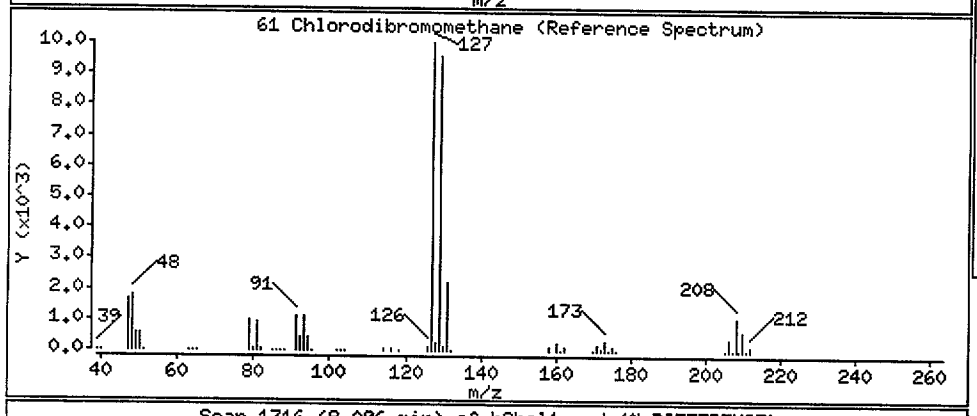
Concentration: 0.022929 ug

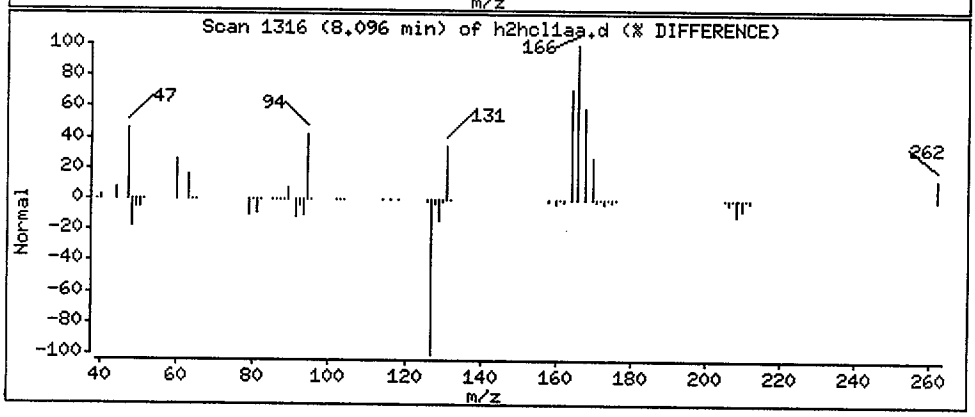












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

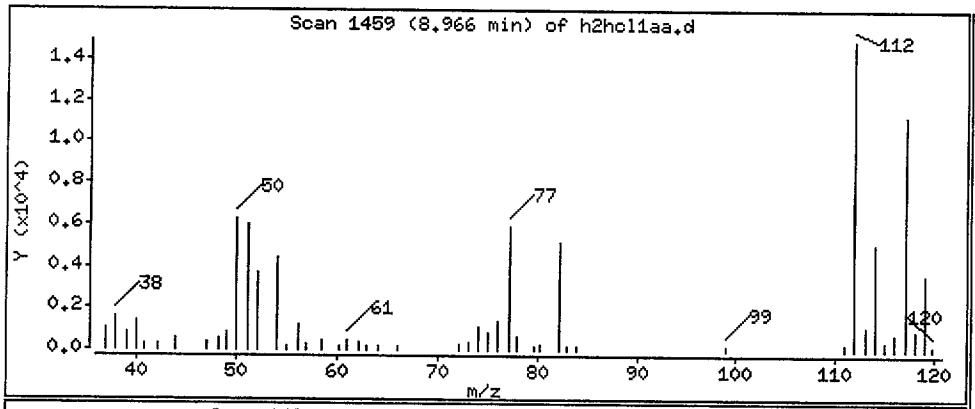
Operator: 22980

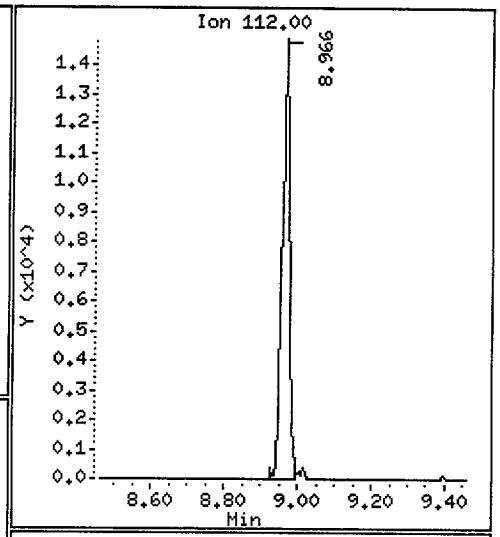
Column phase: J+W 624

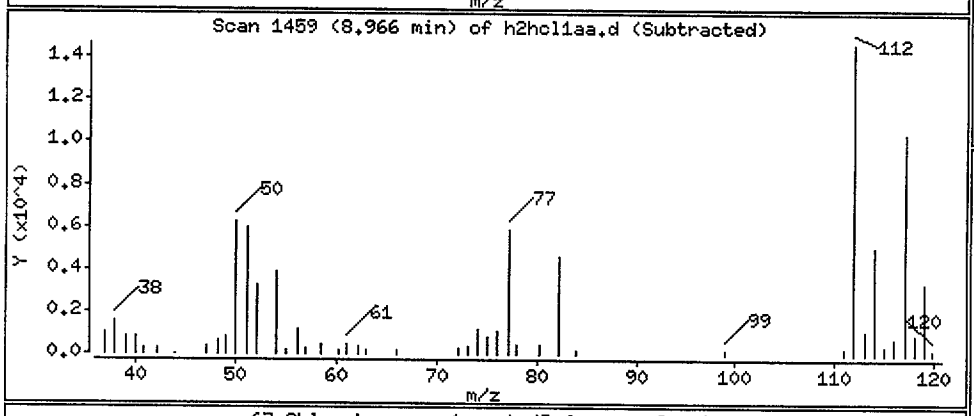
Column diameter: 0.18

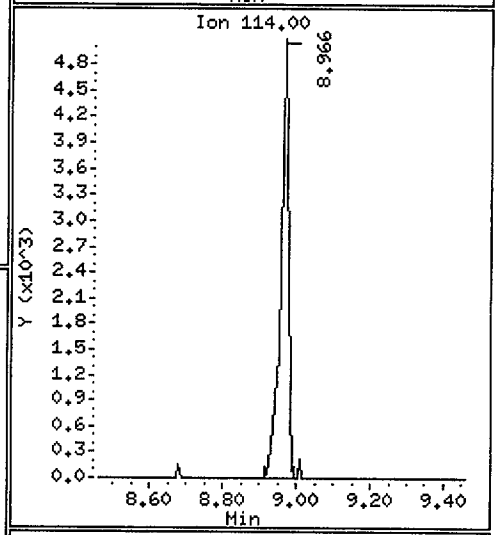
63 Chlorobenzene (spcc)

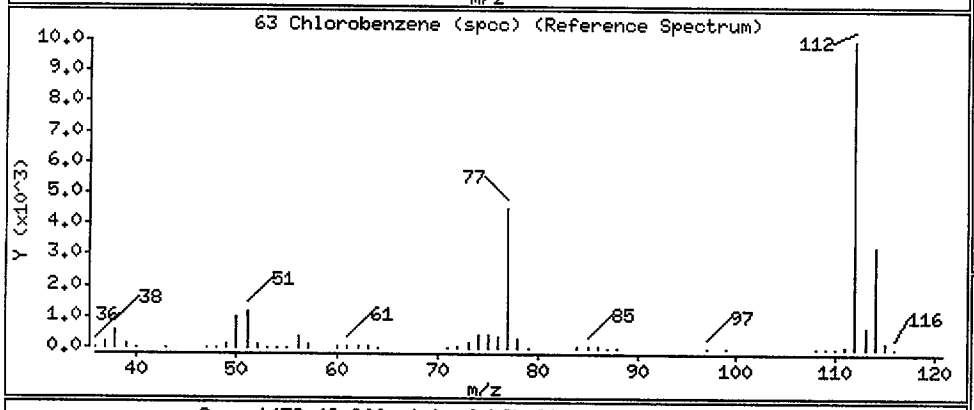
Concentration: 0.0090026 ug

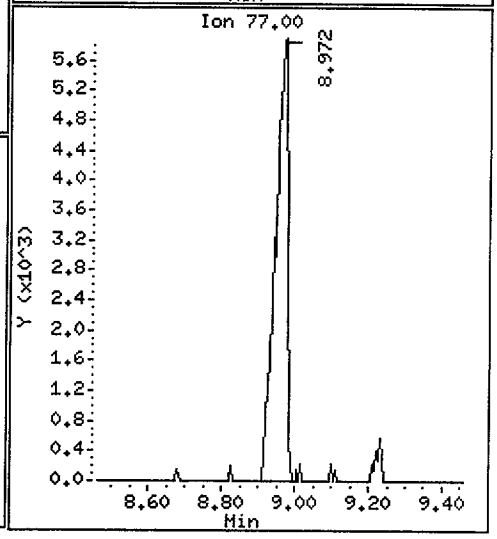


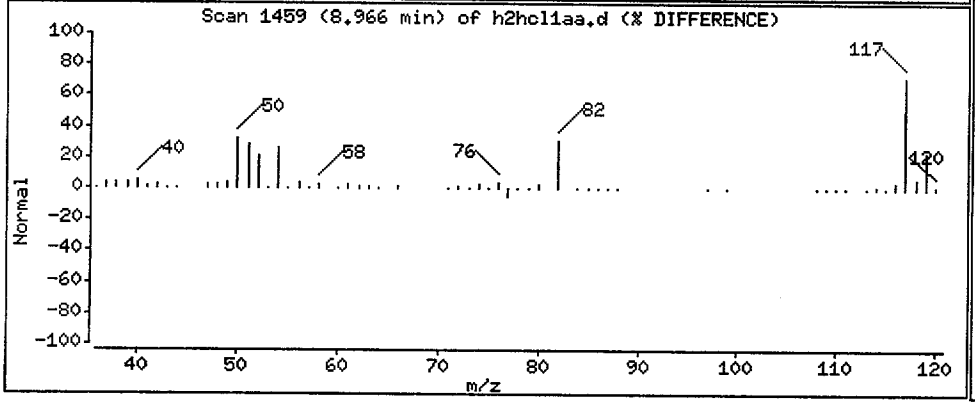












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

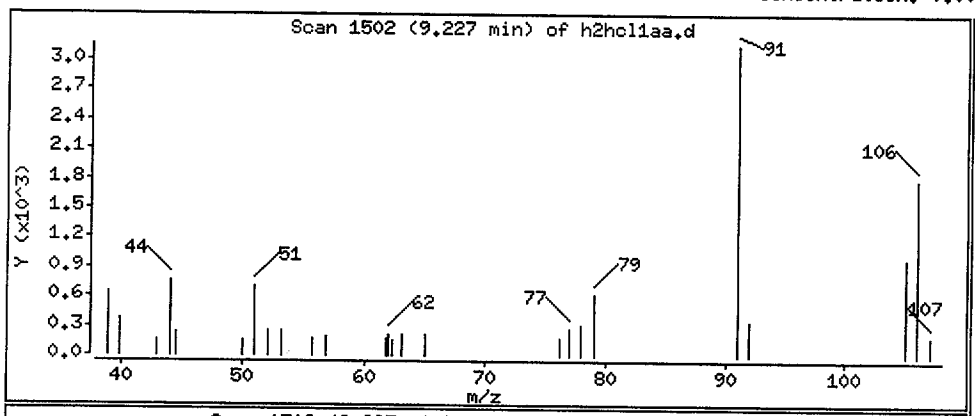
Operator: 22980

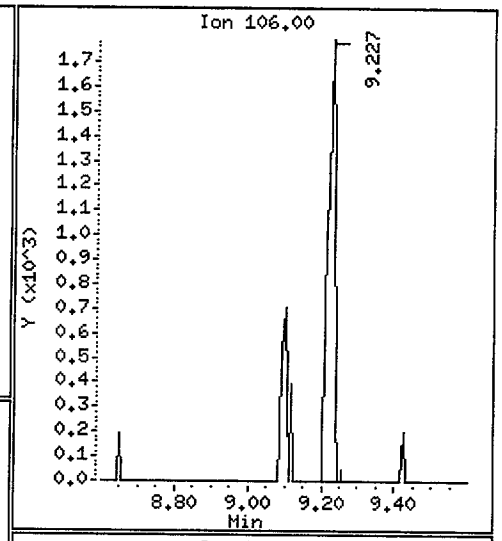
Column phase: J+W 624

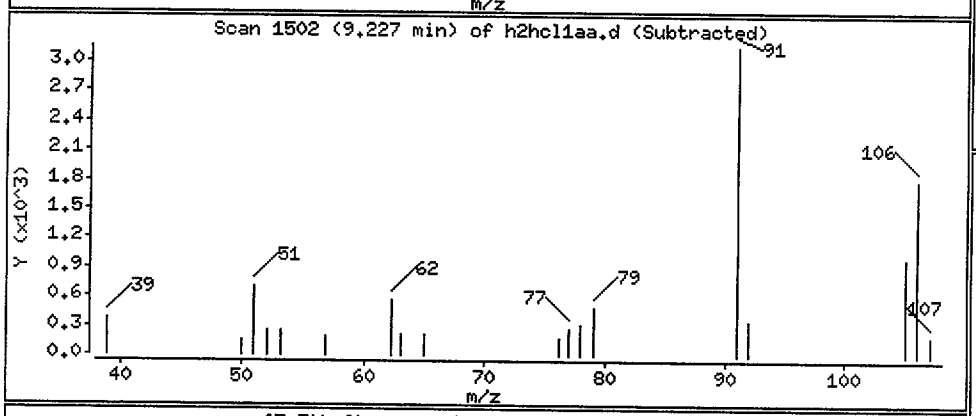
Column diameter: 0.18

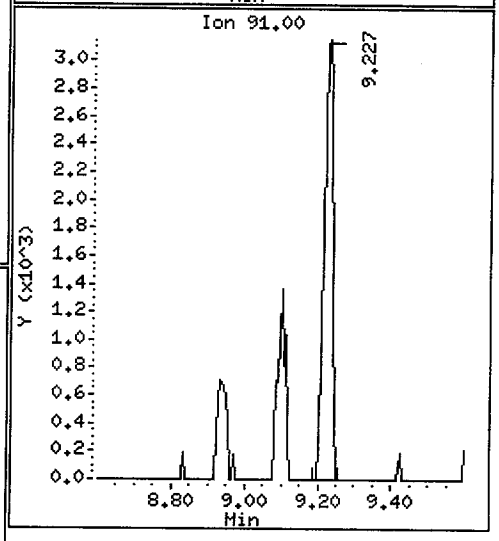
65 Ethylbenzene (ccc)

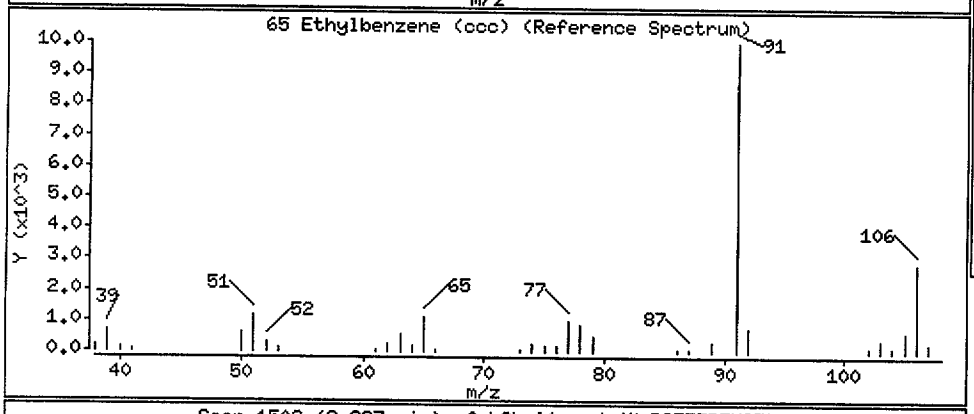
Concentration: 0.0016599 ug

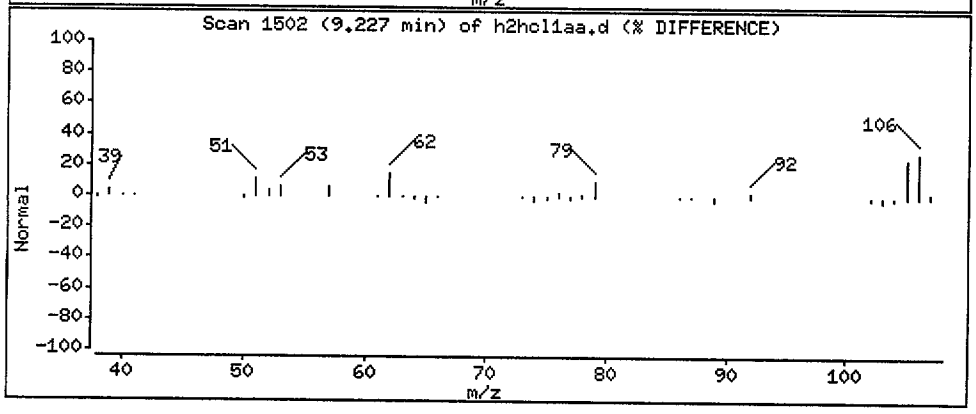












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

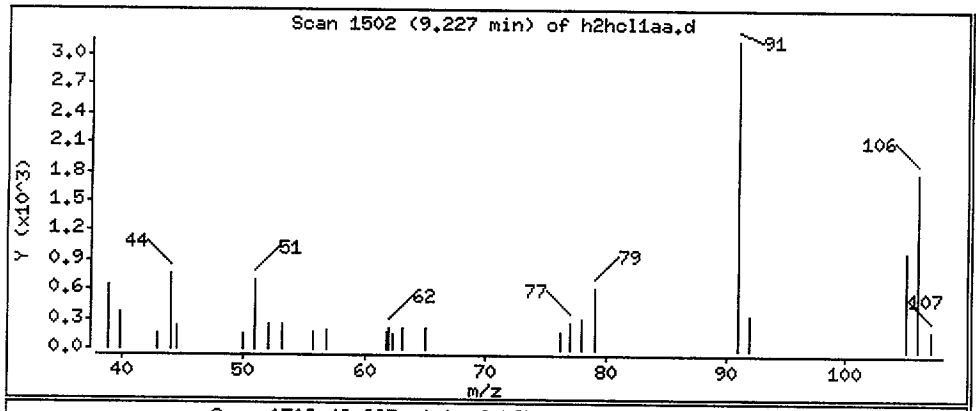
Operator: 22980

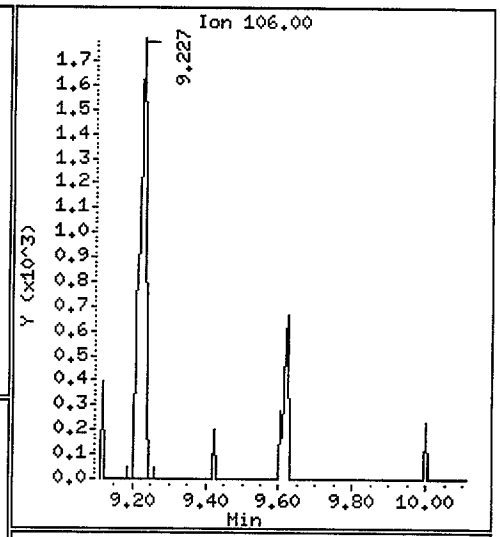
Column phase: J+W 624

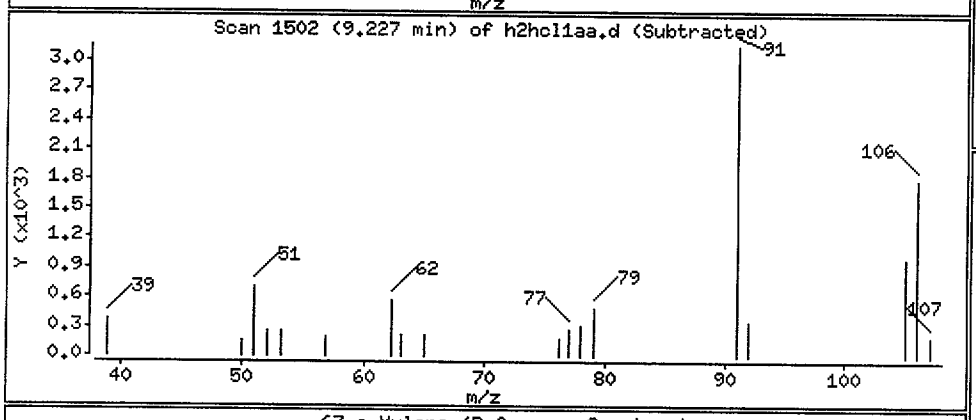
Column diameter: 0.18

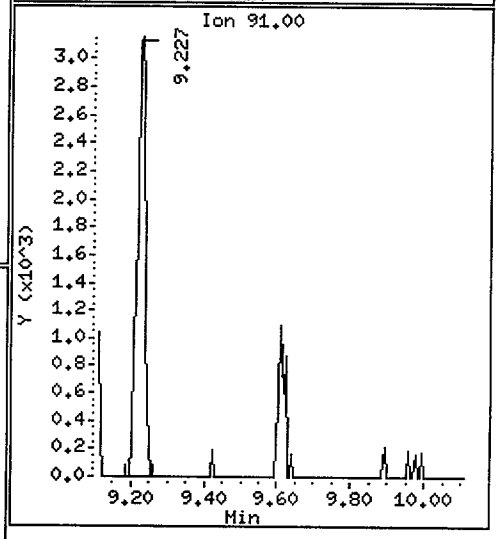
67 o-Xylene

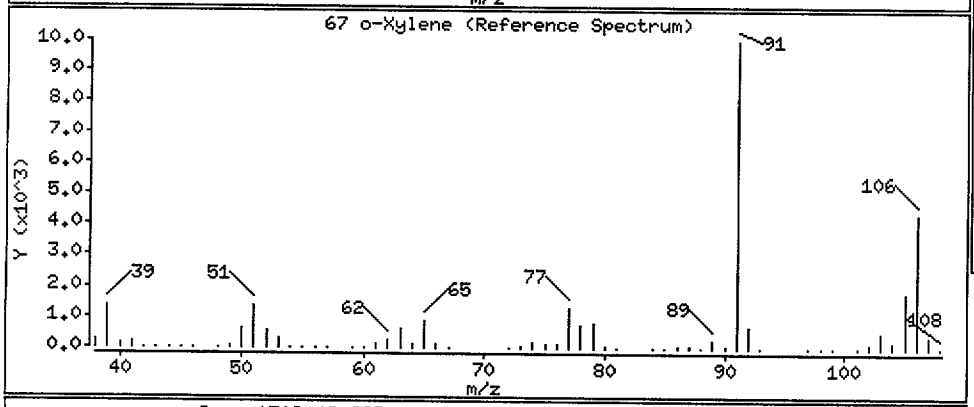
Concentration: 0.0015545 ug

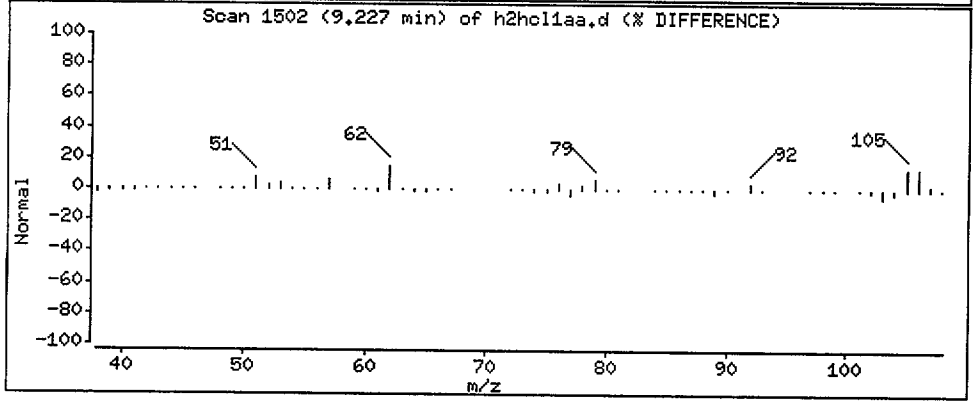












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

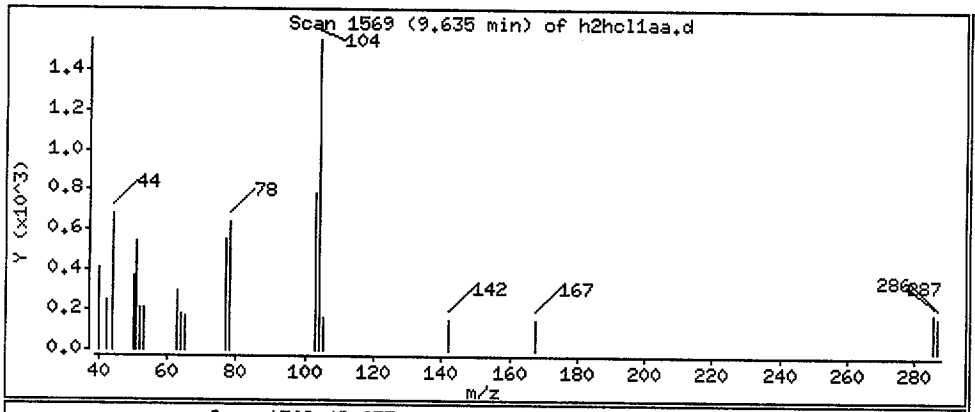
Operator: 22980

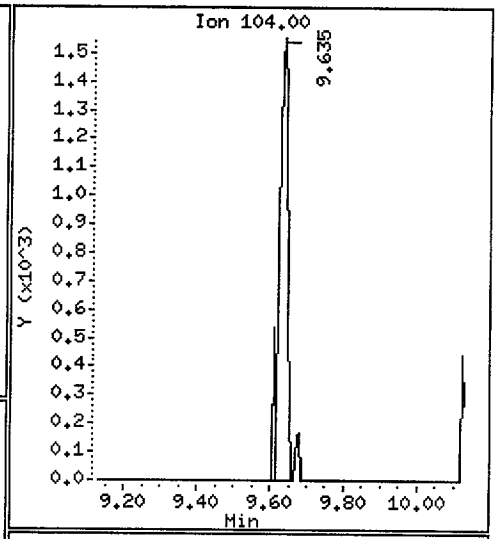
Column phase: J+W 624

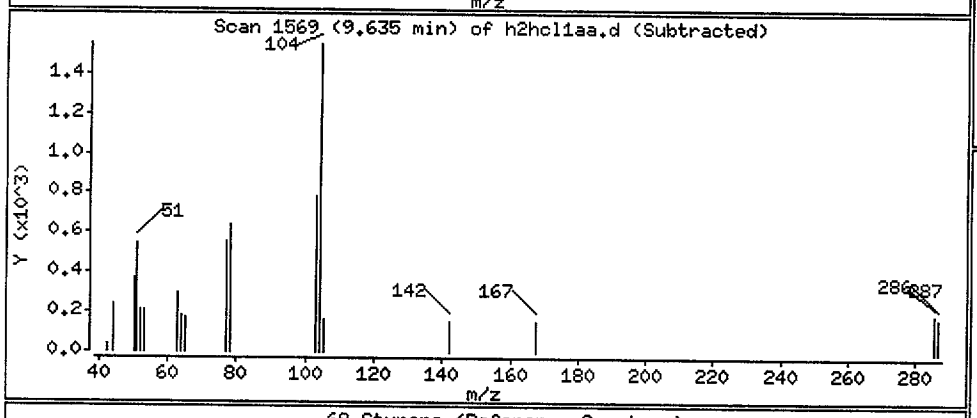
Column diameter: 0.18

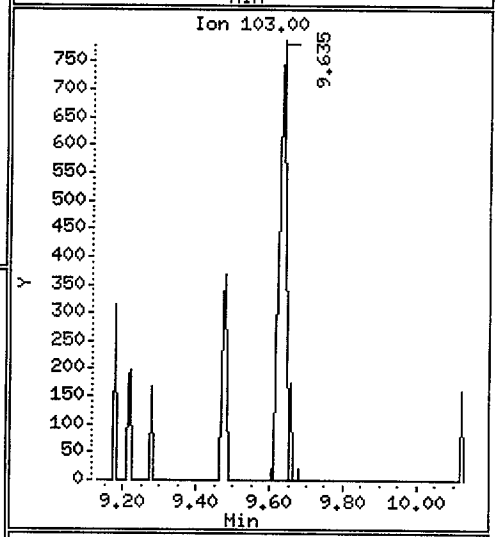
68 Styrene

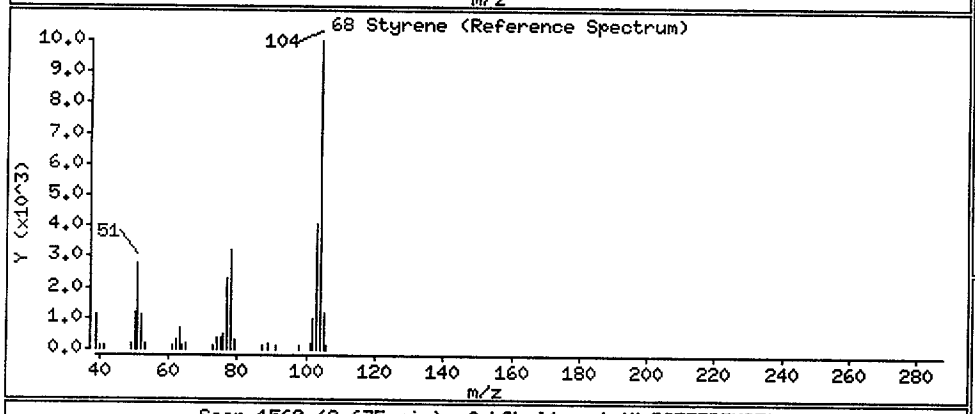
Concentration: 0.0011238 ug

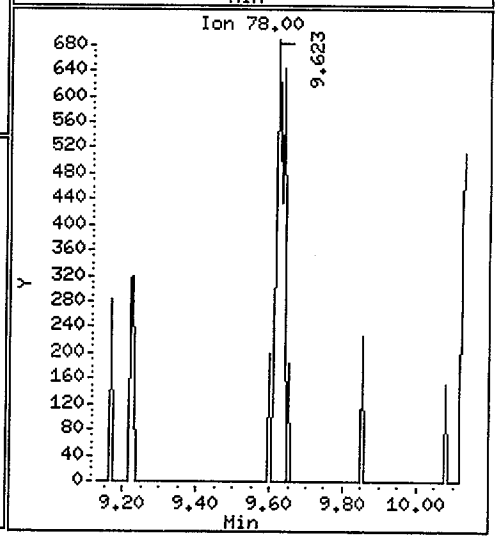


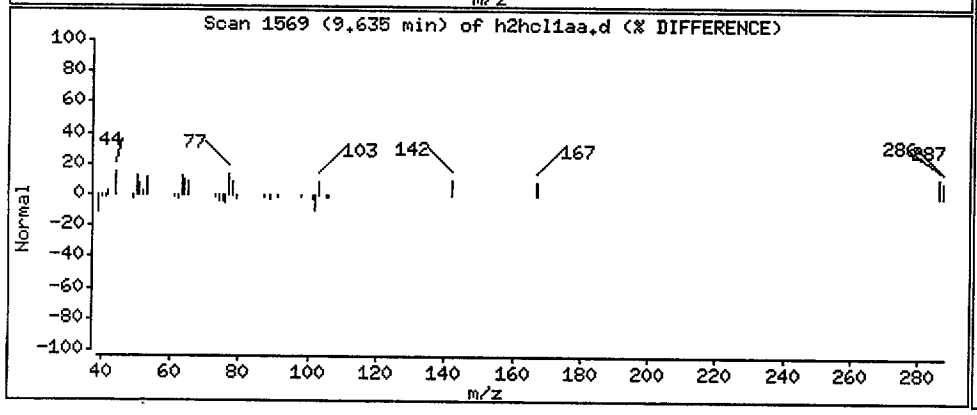












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

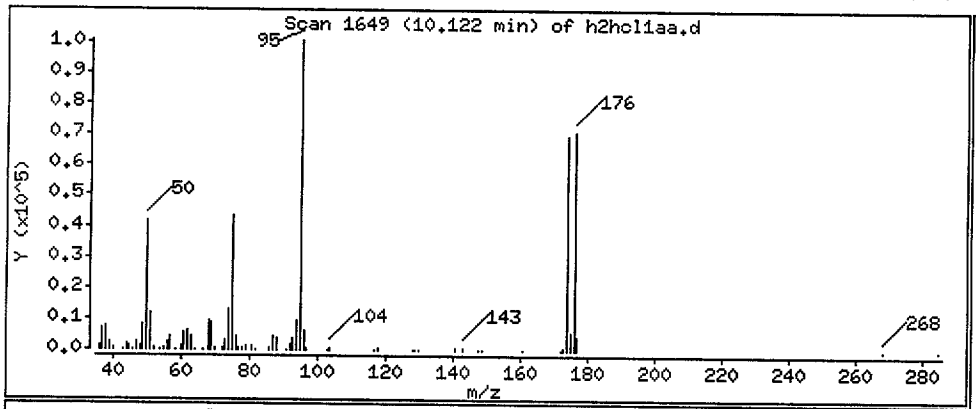
Operator: 22980

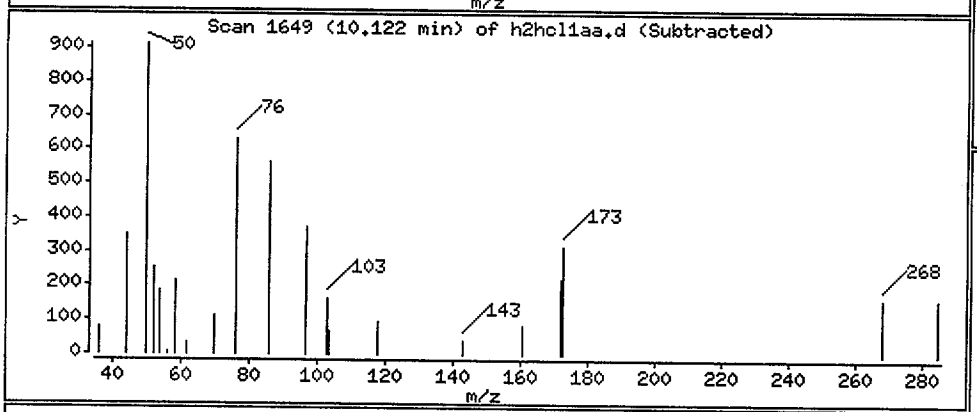
Column phase: J+W 624

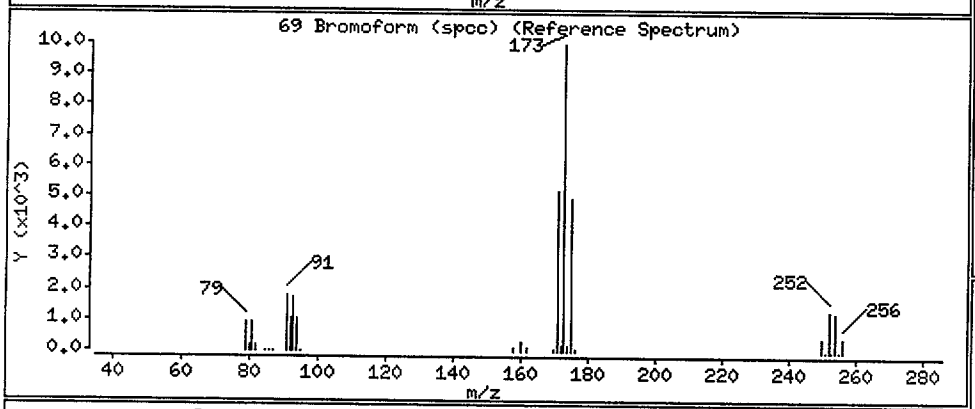
Column diameter: 0.18

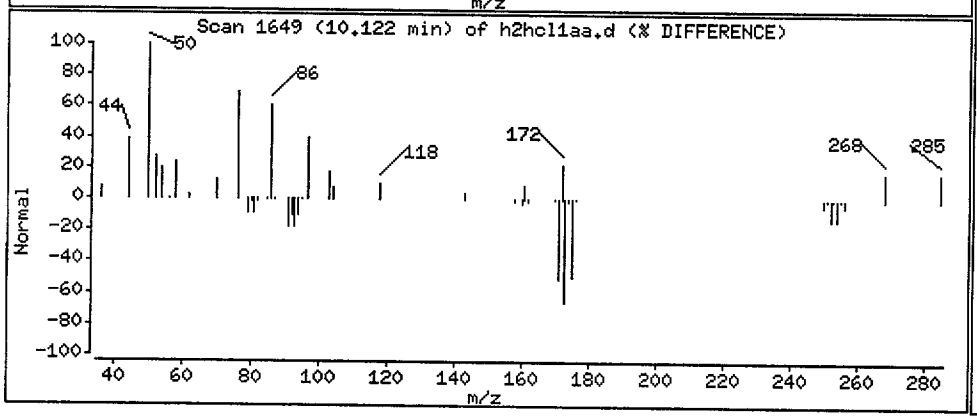
69 Bromoform (spcc)

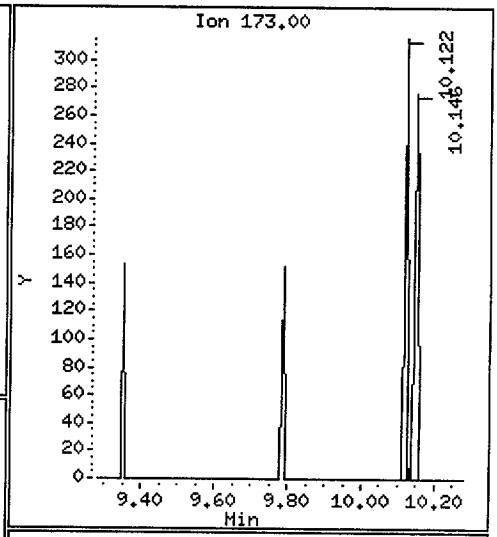
Concentration: 0.021594 ug

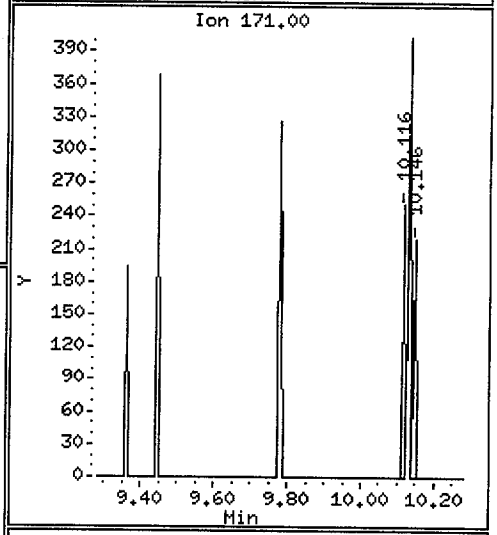


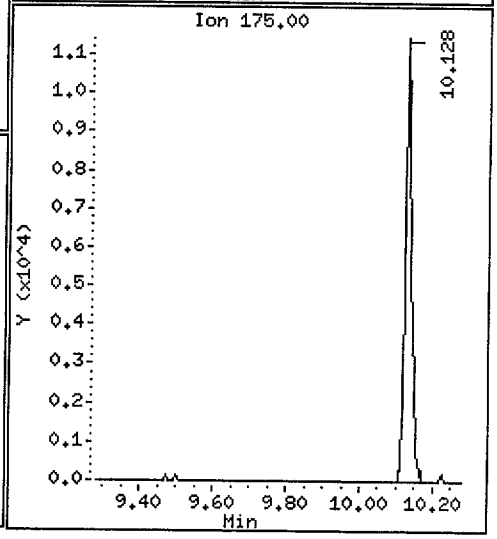












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

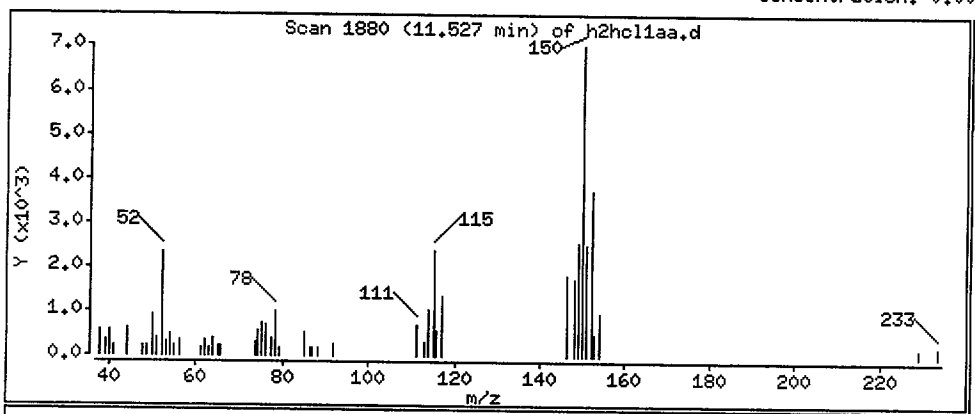
Operator: 22980

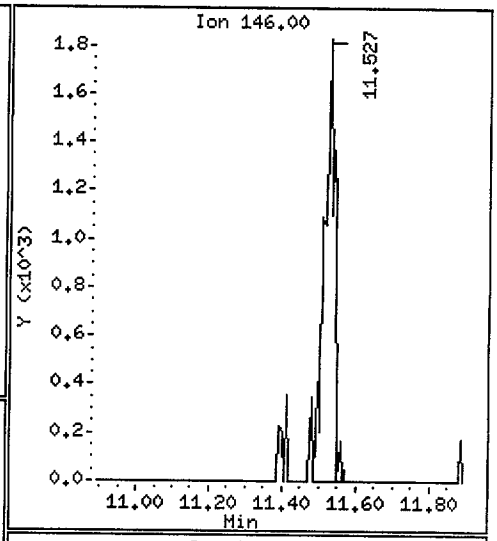
Column phase: J+W 624

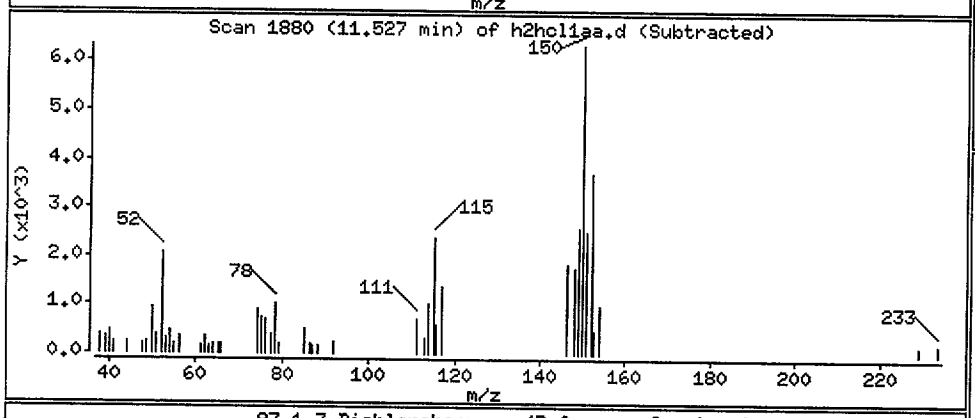
Column diameter: 0.18

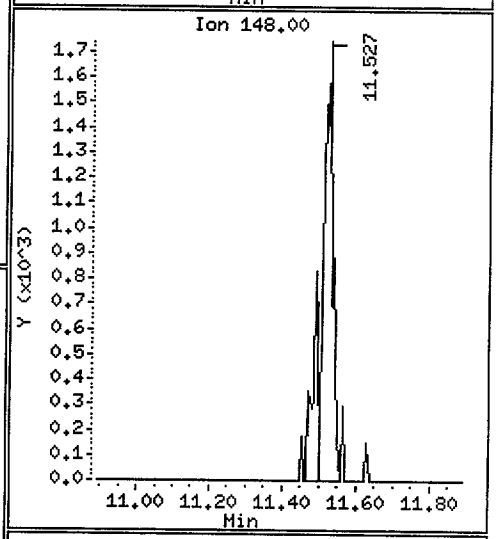
83 1,3-Dichlorobenzene

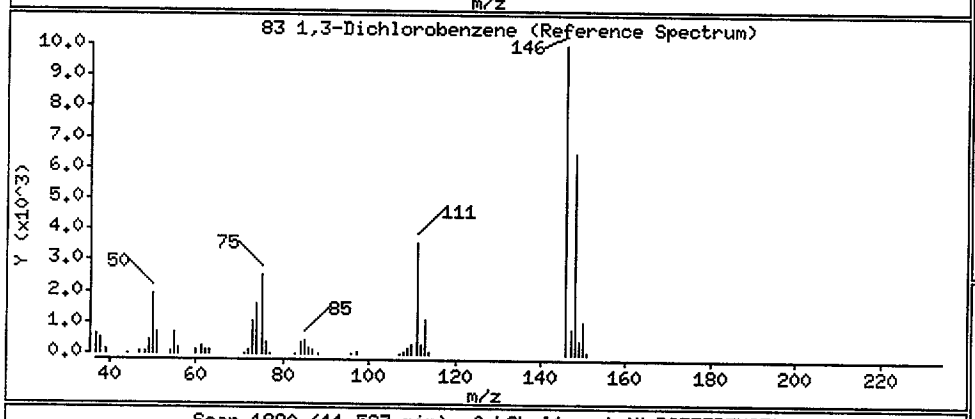
Concentration: 0.0022721 ug

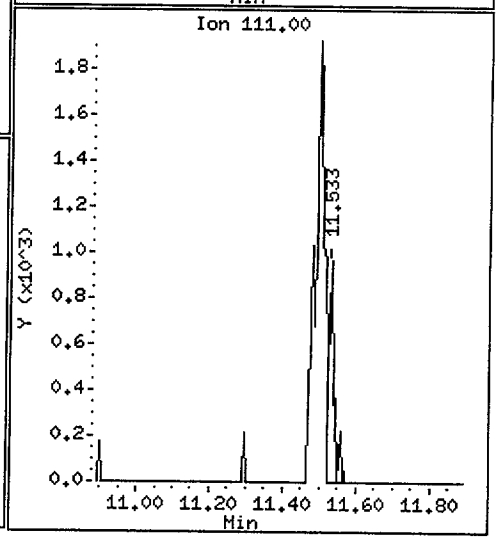


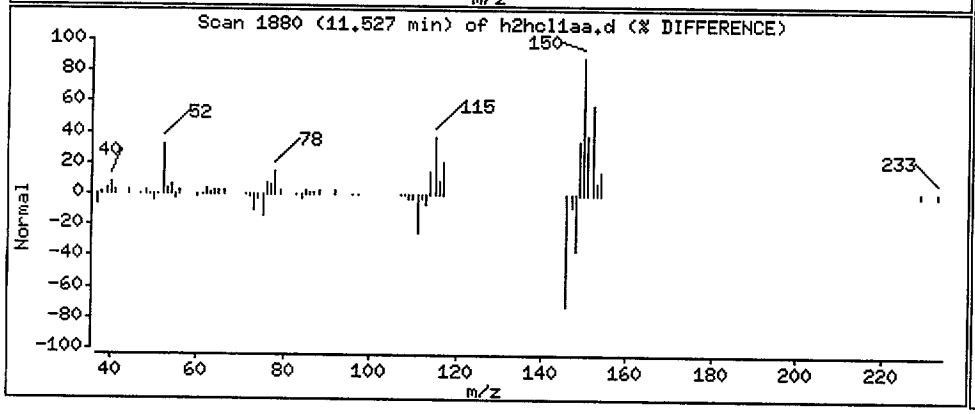












Data File: /chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCL1AA,1,0,,

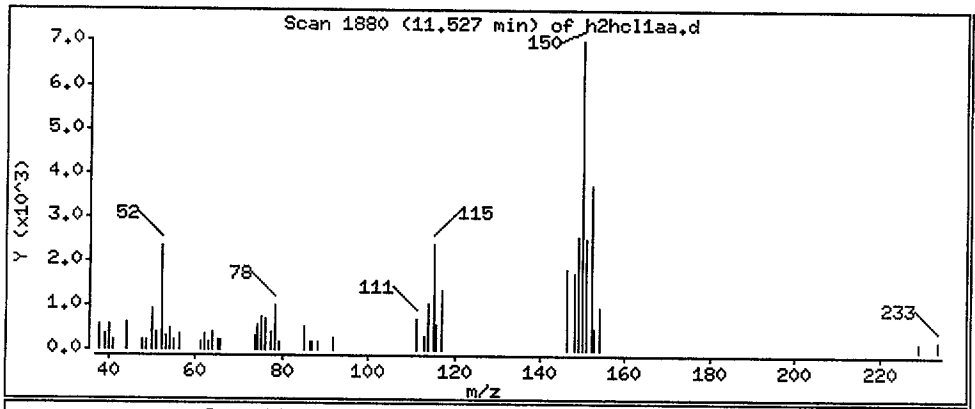
Operator: 22980

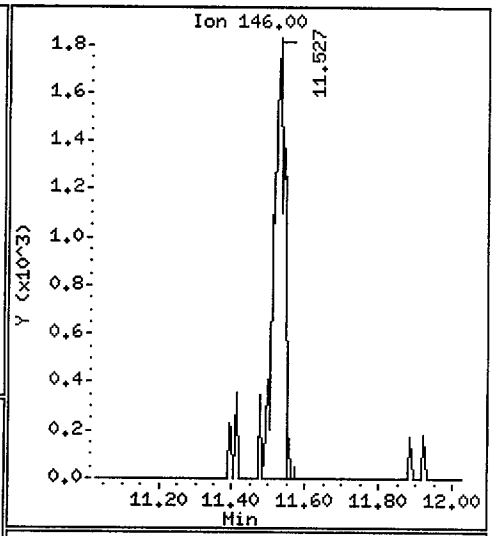
Column phase: J+W 624

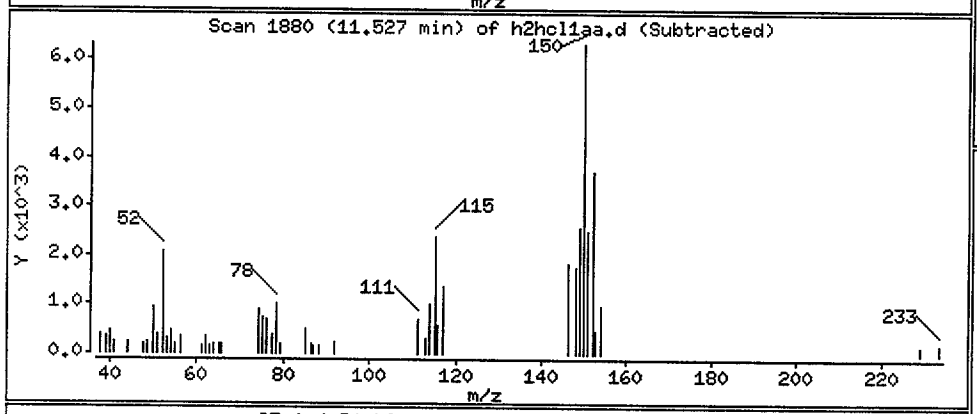
Column diameter: 0.18

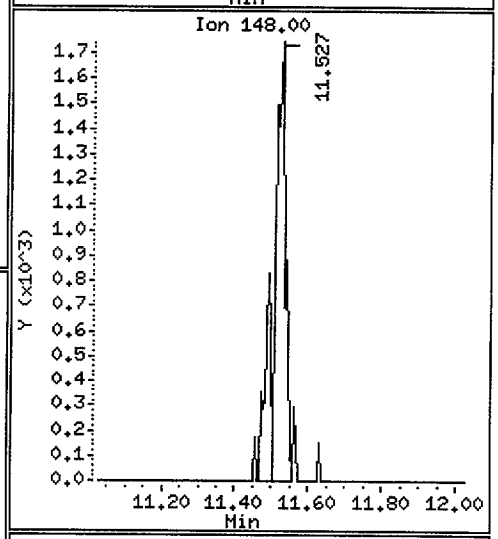
85 1,4-Dichlorobenzene

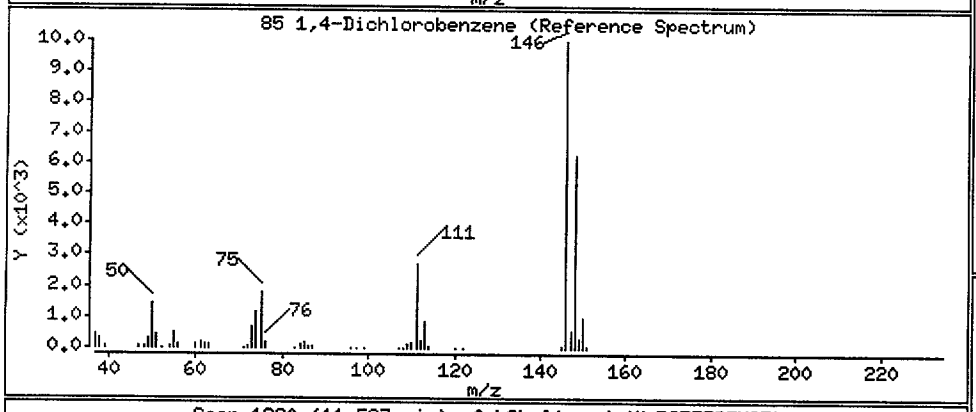
Concentration: 0.0024426 ug

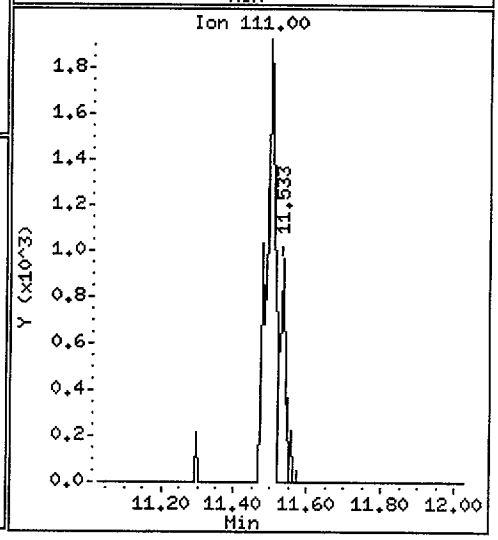


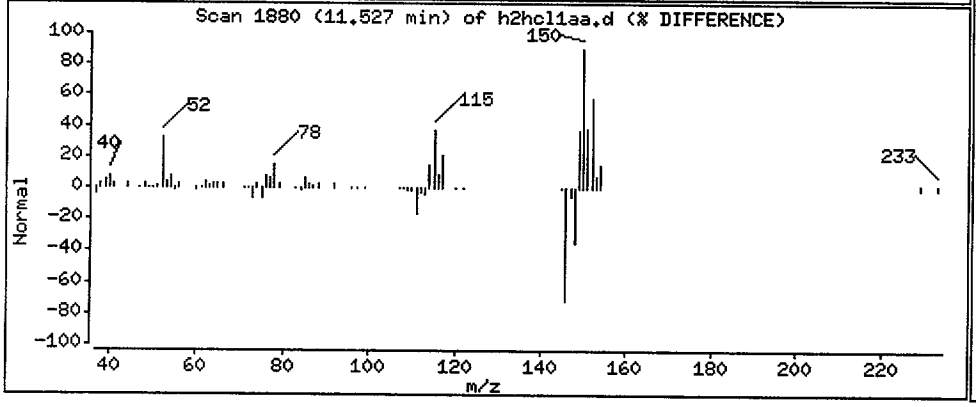












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d
Lab Smp Id: H2HCL1AA Client Smp ID: G-3092-R3-VOST PAIR
Inj Date : 07-APR-2006 15:33
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCL1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 3 1,4 Dichlorobenzene-d4	11.496	802225	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
10.499	84684	1.05561407	0.026390	91	NIST05.1	122479	3

Si

RW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcl1aa.d

Date : 07-APR-2006 15:33

Client ID: G-3092-R3-VOST PAIR

Instrument: mz.i

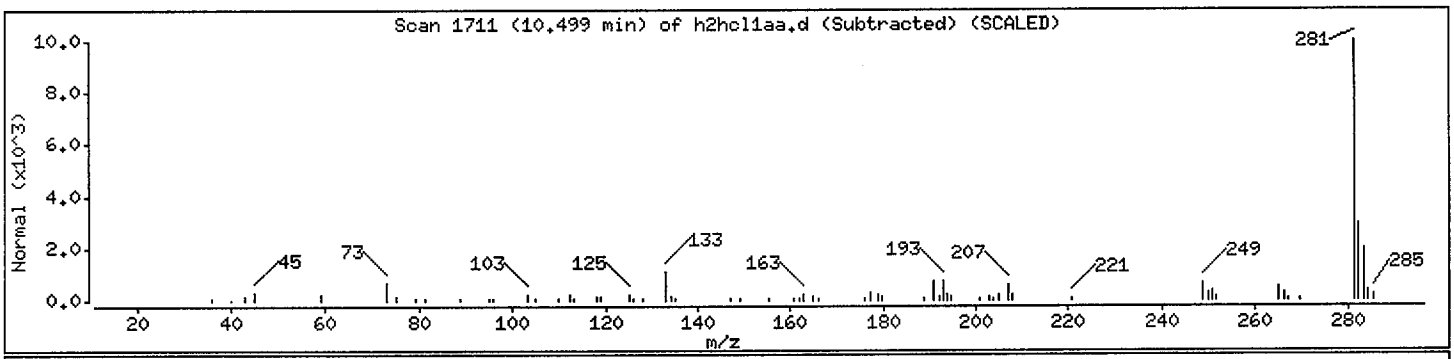
Sample Info: H2HCL1AA,1,0,,

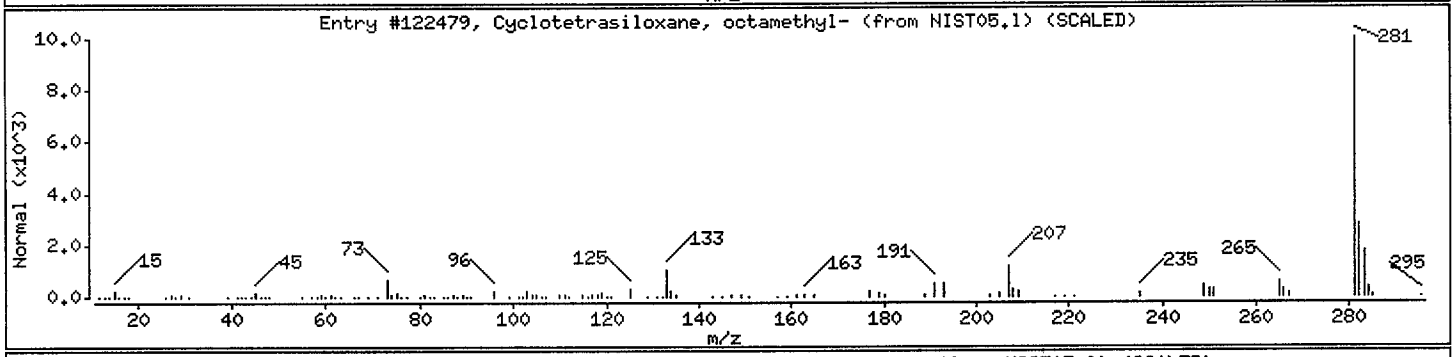
Operator: 22980

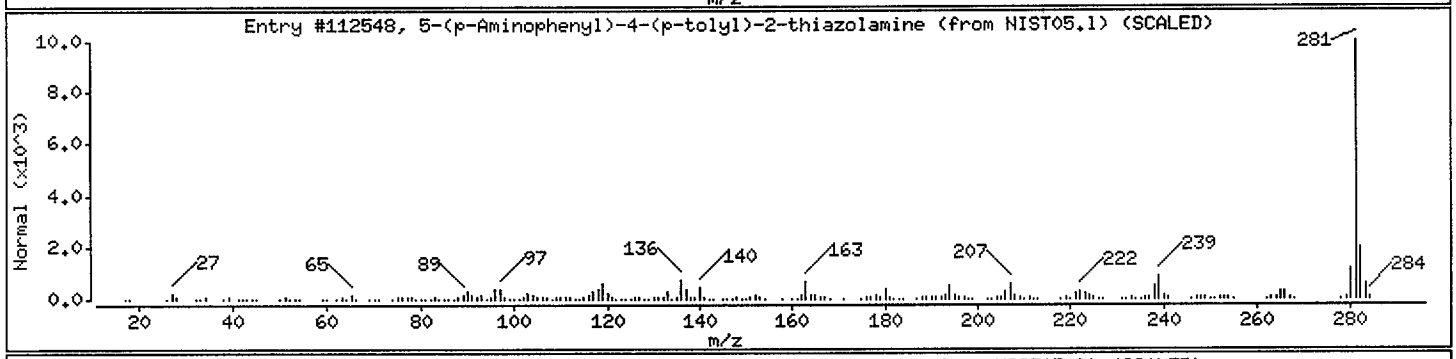
Column phase: J+W 624

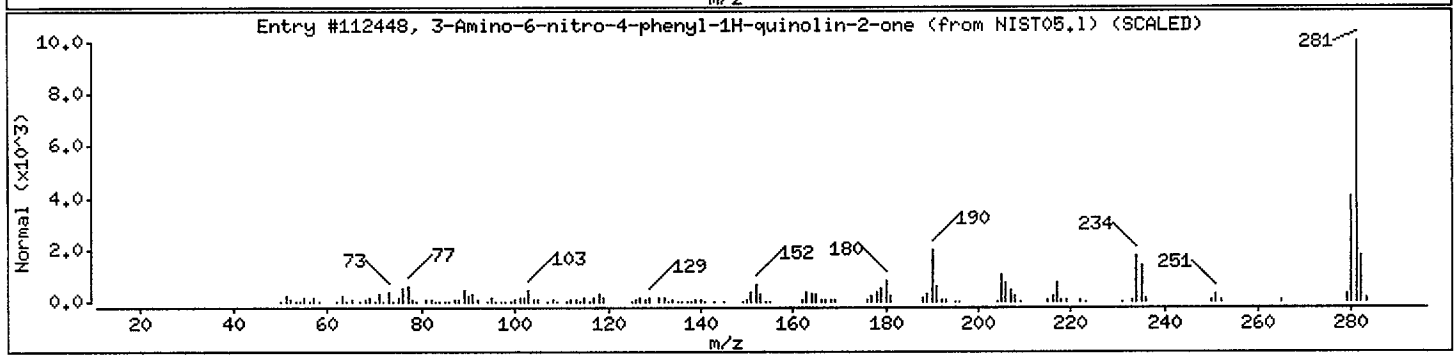
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST05.1	122479	91	C8H24O4Si4	296
5-(p-Aminophenyl)-4-(p-tolyl)-2-thiazola	94460-46-5	NIST05.1	112548	53	C16H15N3S	281
3-Amino-6-nitro-4-phenyl-1H-quinolin-2-o	36020-93-6	NIST05.1	112448	47	C15H11N3O3	281









STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.54**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0054 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.036**	**0.010**	**ug**	**0.0016**
Bromoform	**0.15**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0096 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0031 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.1 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.020**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.090**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.16**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**1.1**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.12**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0061 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0061 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	77	(57 - 127)
Bromofluorobenzene	63	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-027 **Work Order #:** H2HCM1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.063 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Lab Smp Id: H2HCM1AA Client Smp ID: G-3093-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCM1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1135324	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	225016	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.747	10.746	(1.000)	242017	10.0000	
$ 4 Dibromofluoromethane	113	4.268	4.273	(0.880)	145224	7.52347	0.18809
$ 5 1,2-Dichloroethane-d4	65	4.554	4.553	(0.939)	116600	7.74945	0.19374
$ 6 Toluene-d8	98	6.251	6.250	(0.824)	843206	7.65379	0.19134
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	180980	6.30701	0.15768
M 9 Xylene (total)	106				26793	0.53219	0.013305
21 Acetone	43	2.382	2.381	(0.491)	34888	21.6970	0.54242
23 Carbon Disulfide	76	2.498	2.497	(0.515)	33394	0.38595	0.0096489
26 Methylene Chloride	84	2.747	2.746	(0.566)	62966	3.58723	0.089681
33 *Vinyl Acetate	86	3.252	3.421	(0.670)	593	0.45926	~~0.011482~~
34 2,2-Dichloropropane	77	3.860	3.853	(0.796)	2887	0.05793	~~0.0014483~~
36 2-Butanone	43	3.872	3.871	(0.798)	13534	5.39613	~~0.13490~~
38 *THF	42	4.104	4.109	(0.846)	1406	0.91498	0.022874
39 Chloroform (ccc)	83	4.140	4.139	(0.853)	35351	0.81926	0.020482
41 Carbon Tetrachloride	117	4.438	4.437	(0.915)	4998	0.12264	0.0030661
42 1,1-Dichloropropene	75	4.852	4.437	(1.000)	85427	1.90049	~~0.047512~~
43 Benzene	78	4.608	4.607	(0.950)	24765	0.21539	0.0053847
44 1,2-Dichloroethane	62	4.852	4.620	(1.000)	19743	1.02041	~~0.025510~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
45 Trichloroethene	130	5.174	5.173	(1.066)	4502	0.14593	0.0036482
49 Bromodichloromethane	83	5.606	5.605	(1.155)	35019	1.45373	0.036343
51 cis-1,3-Dichloropropene	75	6.312	6.007	(1.301)	4560	0.16165	~~0.0040412~~
52 4-Methyl-2-pentanone	43	6.251	6.147	(1.288)	7078	1.17838	0.029460
53 Toluene (ccc)	91	6.312	6.311	(0.832)	638856	4.84696	0.12117
54 trans-1,3-Dichloropropene	75	6.312	6.506	(0.832)	4560	0.19741	~~0.0049352~~
56 1,1,2-Trichloroethane	97	6.817	6.670	(0.899)	11569	1.11120	~~0.027780~~
57 Tetrachloroethene	164	6.823	6.816	(0.900)	1280598	45.2184	1.1304
59 2-Hexanone	43	6.440	6.907	(0.849)	9878	2.24286	~~0.056072~~
60 Chlorodibromomethane	129	7.036	7.035	(0.928)	53496	4.14707	0.10368
62 Chlorobenzene (spcc)	112	7.614	7.607	(1.004)	8416452	124.392	3.1098(A)
64 Ethylbenzene (ccc)	106	7.833	7.716	(1.033)	13396	0.28789	~~0.0071972~~
65 m&p-Xylene	106	7.833	7.838	(1.033)	13396	0.24565	0.0061412
66 o-Xylene	106	7.833	8.251	(1.033)	13396	0.28654	~~0.0071635~~
68 Bromoform (spcc)	173	8.459	8.464	(1.116)	36978	5.93120	0.14828
69 Isopropylbenzene	105	8.690	8.689	(1.146)	10598	0.07068	0.0017670
73 1,2,3-Trichloropropane	110	9.244	9.115	(0.860)	517	0.22924	~~0.0057310~~
80 1,2,4-Trimethylbenzene	105	10.084	10.125	(0.938)	74902	0.95925	~~0.023981~~
81 sec-Butylbenzene	105	10.084	10.435	(0.938)	75247	0.54550	~~0.013637~~
82 1,3-Dichlorobenzene	146	10.783	10.612	(1.003)	1723	0.04227	~~0.0010567~~
84 1,4-Dichlorobenzene	146	10.783	10.788	(1.003)	1723	0.04667	0.0011668
90 Napthalene	128	13.947	13.946	(1.298)	68336	6.50772	0.16269

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcm1aa.d
Lab Smp Id: H2HCM1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3093-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1135324	-1.21
2 Chlorobenzene-d5	214194	107097	428388	225016	5.05
3 1,4 Dichlorobenze	242601	121300	485202	242017	-0.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

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.

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 07-Apr-2006 15:26

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCM1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3093-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

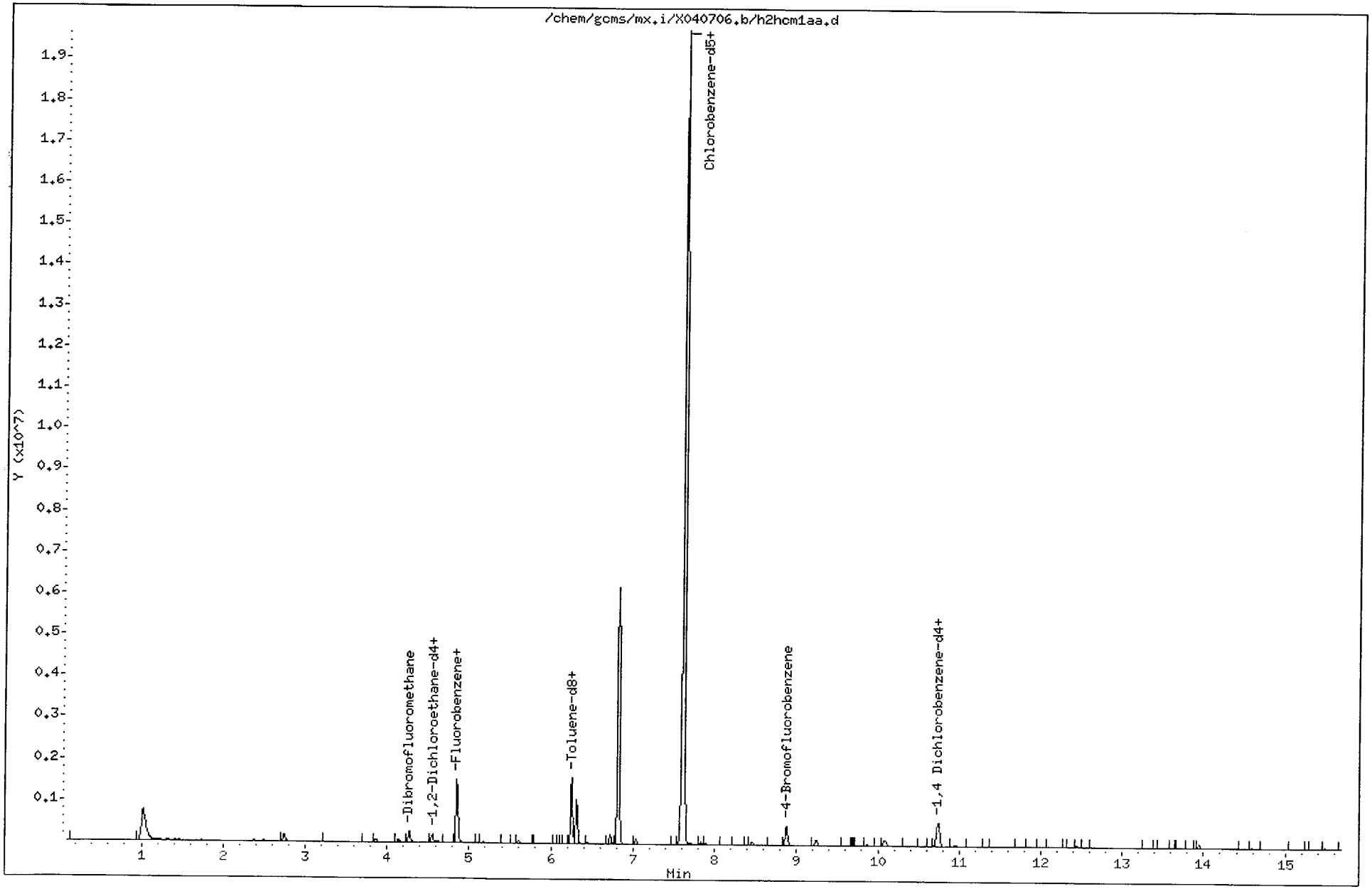
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18809	75.23	50-150
$ 5 1,2-Dichloroethane	0.25000	0.19374	77.49	50-150
$ 6 Toluene-d8	0.25000	0.19134	76.54	50-150
$ 7 4-Bromofluorobenze	0.25000	0.15768	63.07	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Date : 07-APR-2006 15:10
Client ID: G-3093-R3-VOST PAIR
Sample Info: H2HCM1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

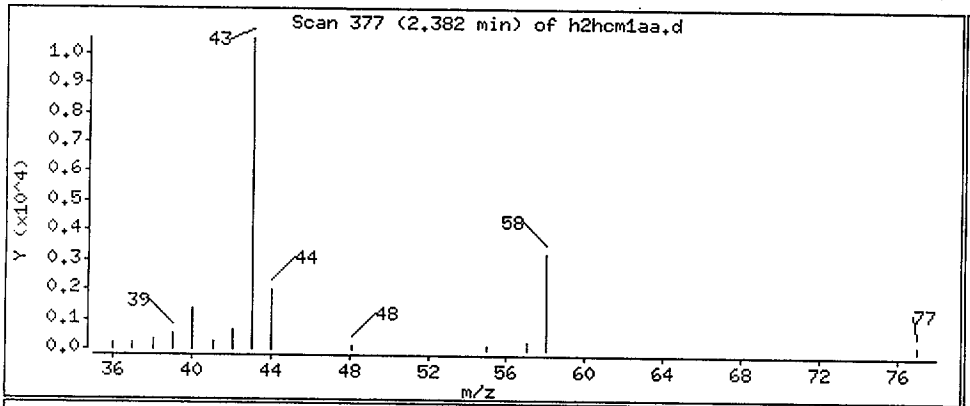
Operator: 22980

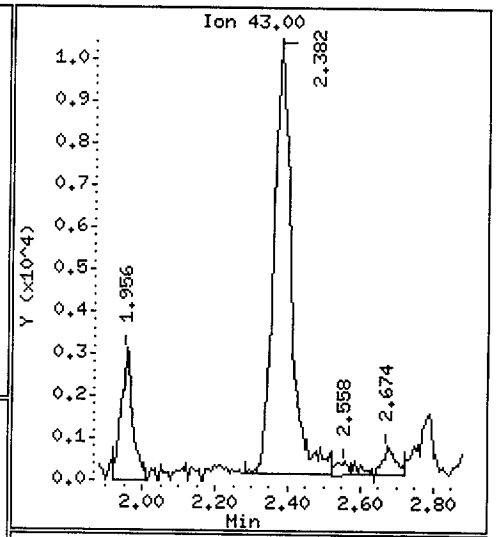
Column phase: J+W 624

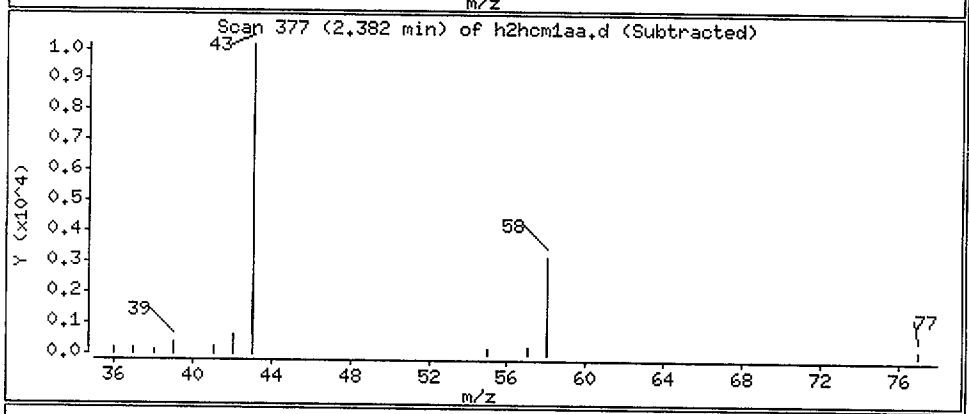
Column diameter: 0.18

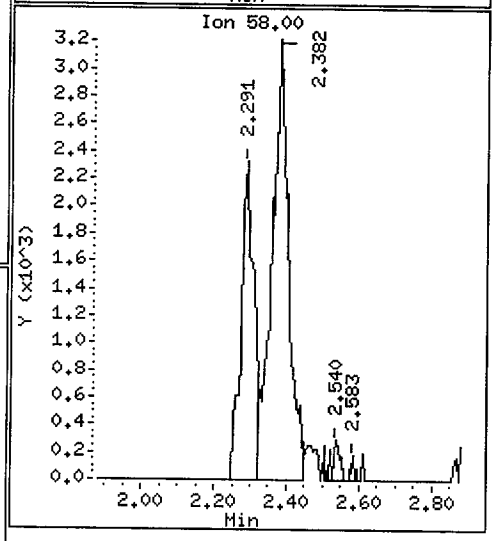
21 Acetone

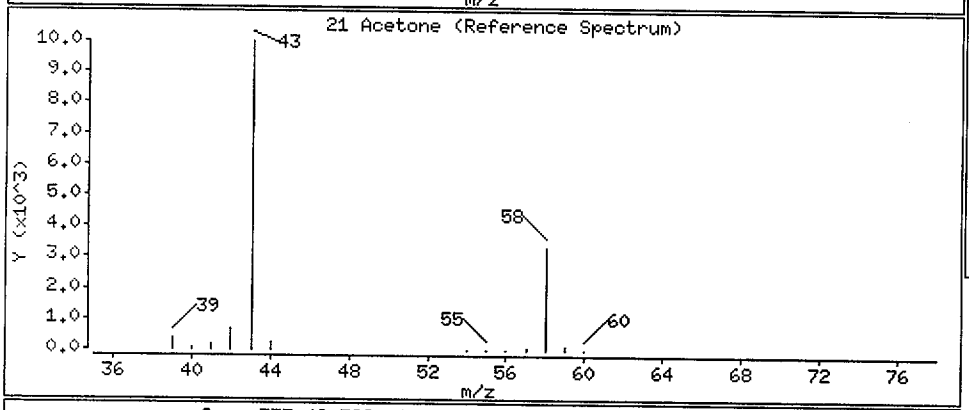
Concentration: 0.54242 ug

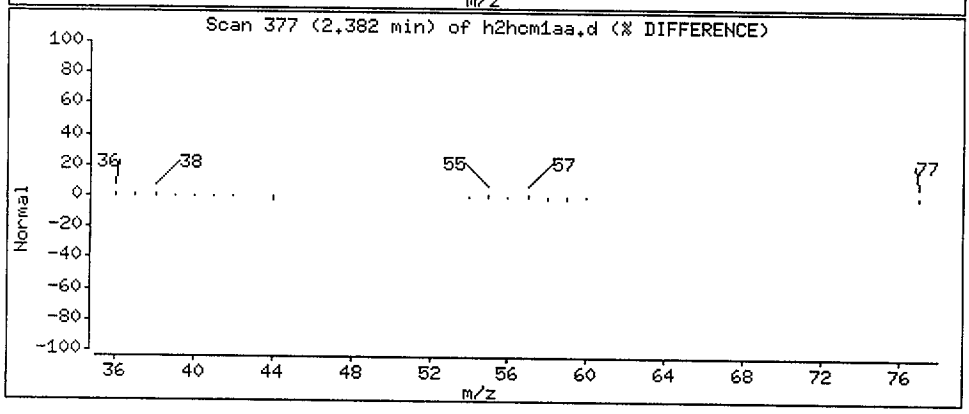












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

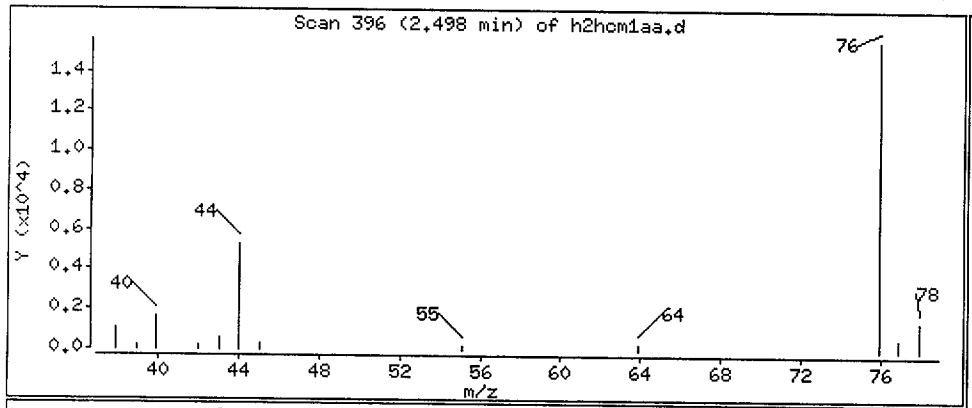
Operator: 22980

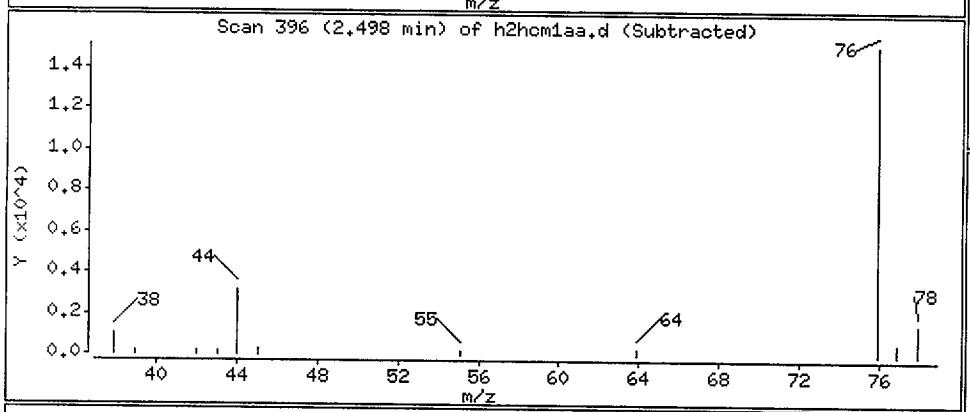
Column phase: J+W 624

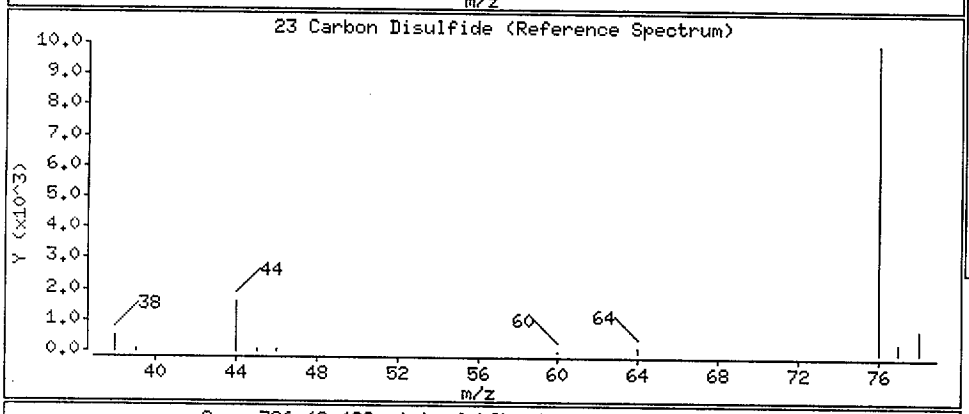
Column diameter: 0.18

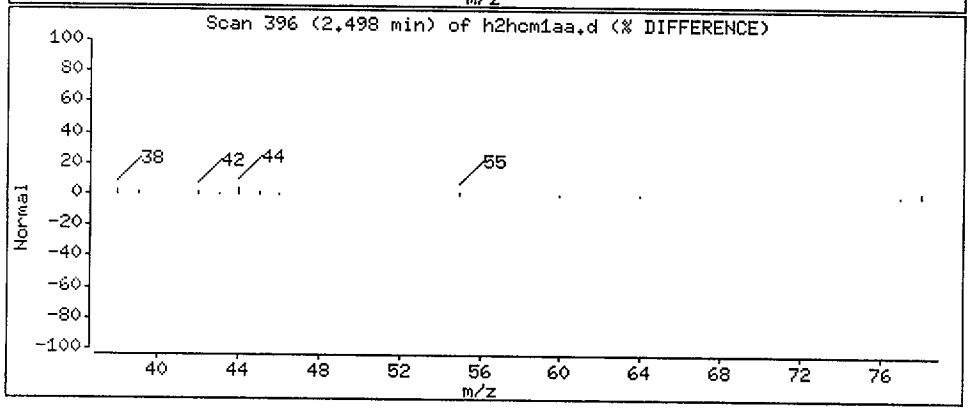
23 Carbon Disulfide

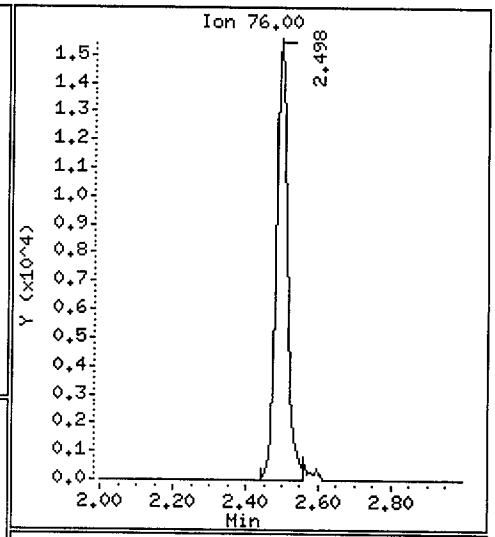
Concentration: 0.0096489 ug

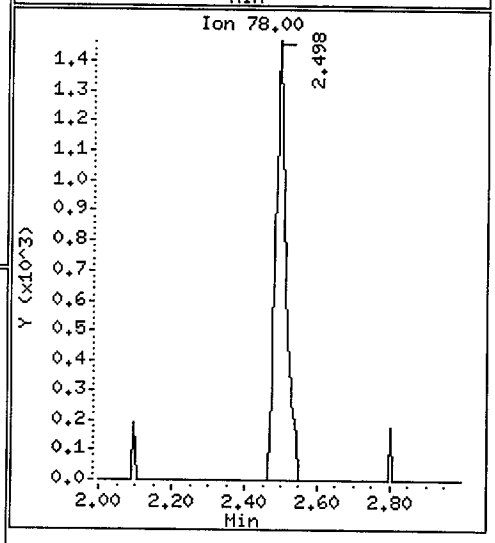












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

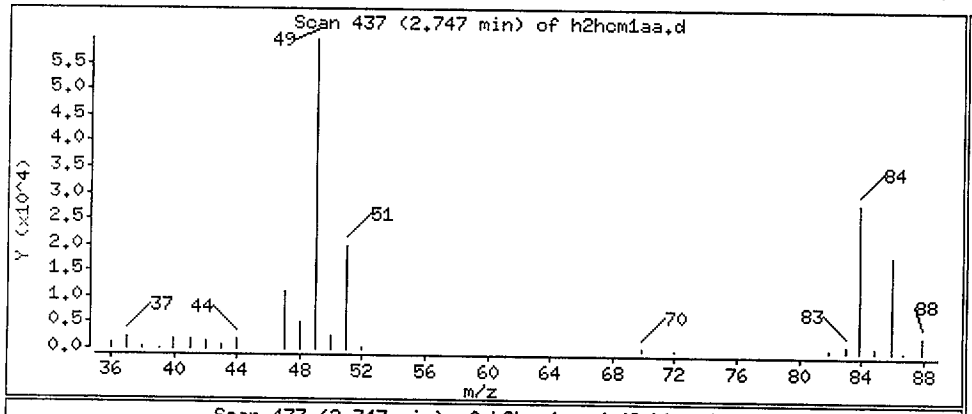
Operator: 22980

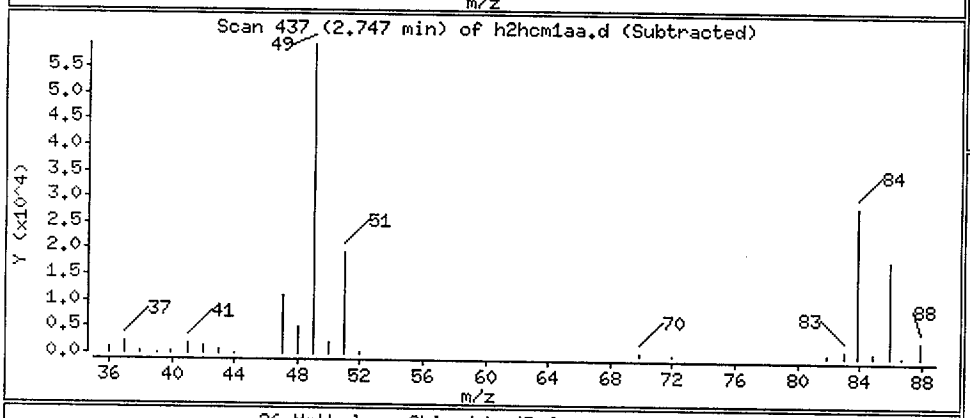
Column phase: J+W 624

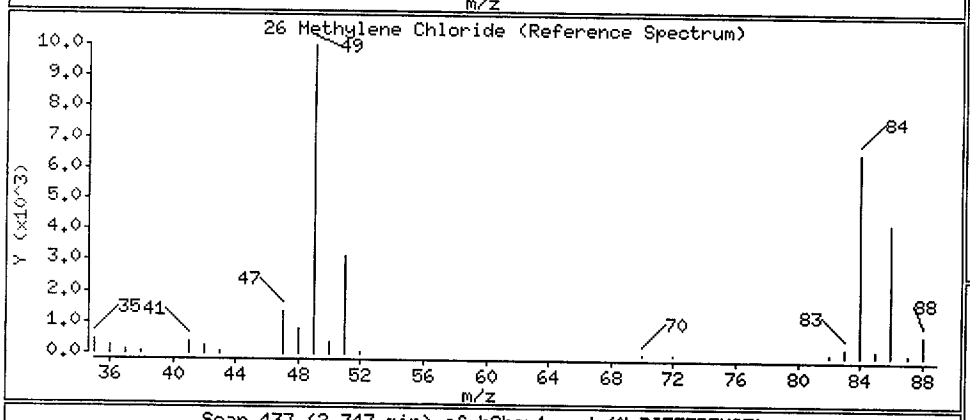
Column diameter: 0.18

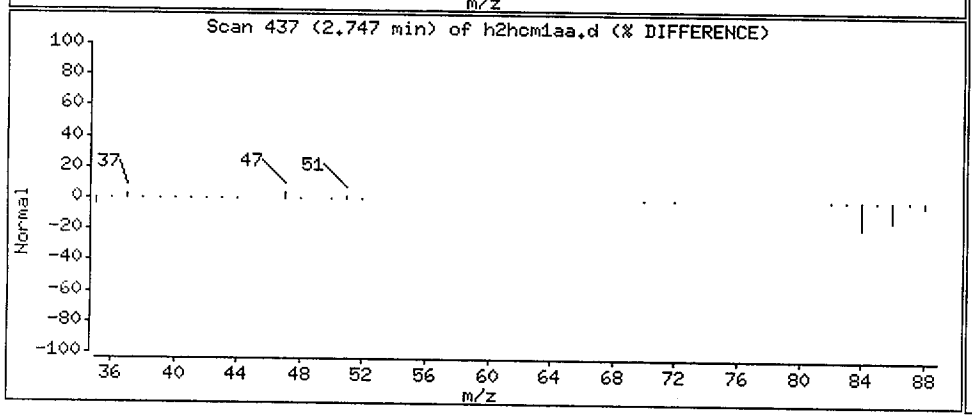
26 Methylene Chloride

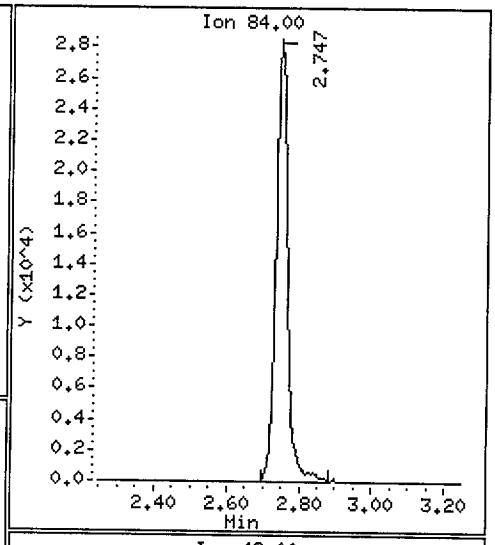
Concentration: 0.089681 ug

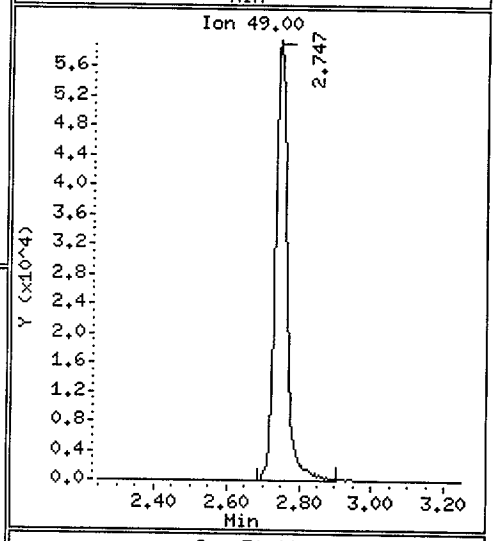


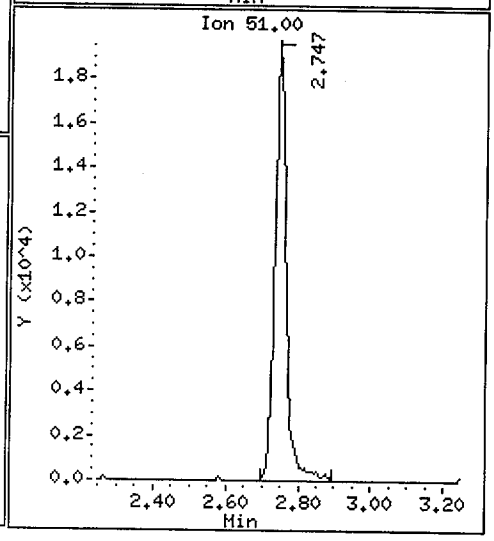












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

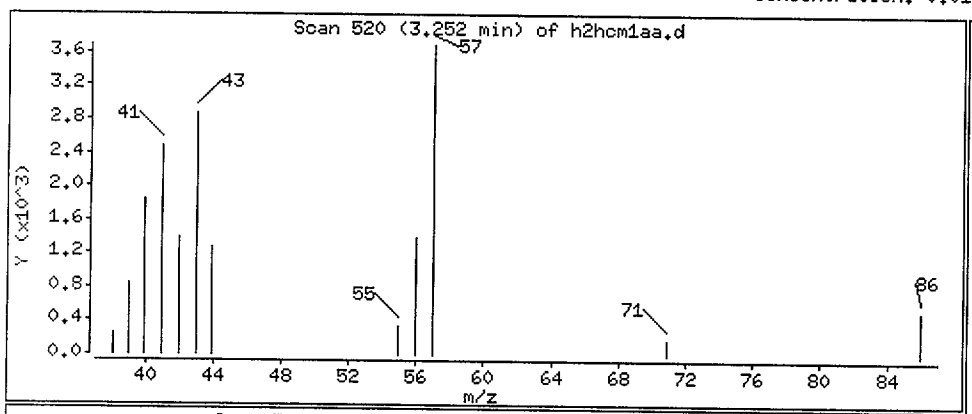
Operator: 22980

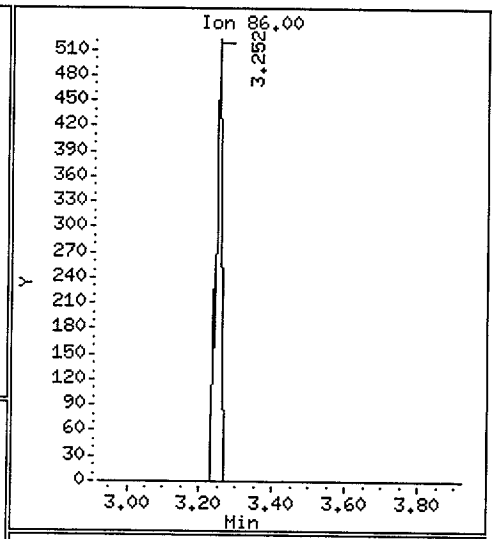
Column phase: J+W 624

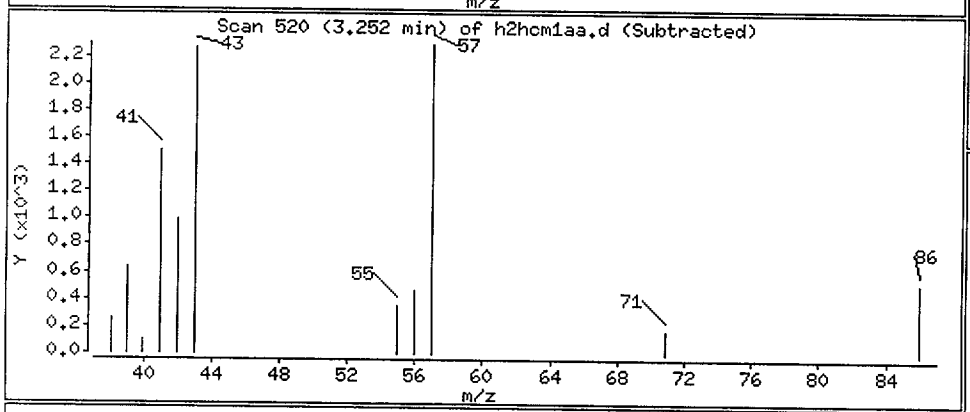
Column diameter: 0.18

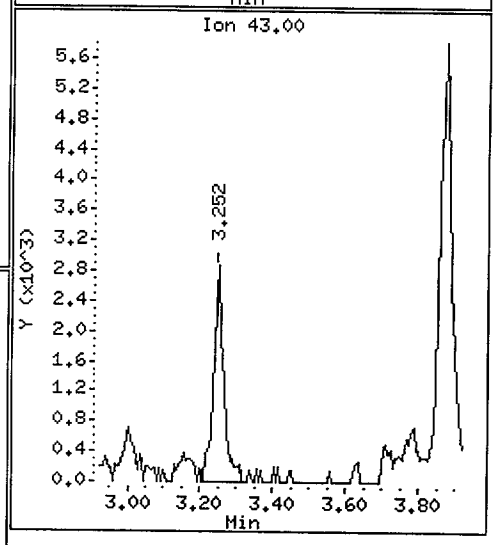
33 *Vinyl Acetate

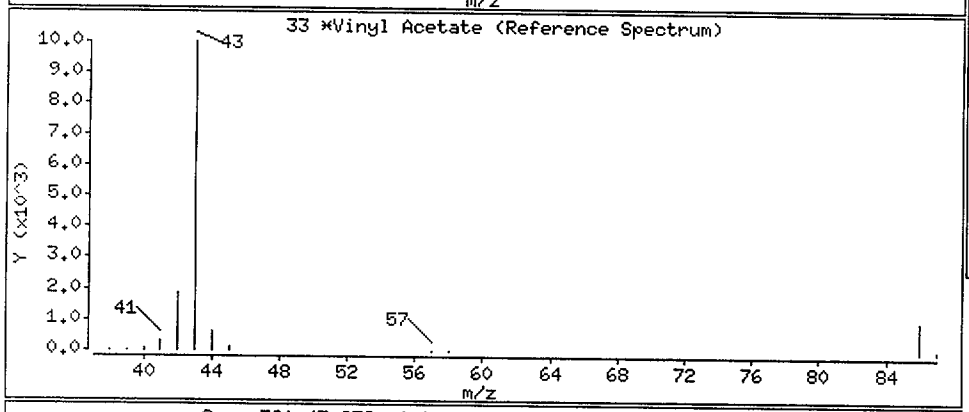
Concentration: 0.011482 ug

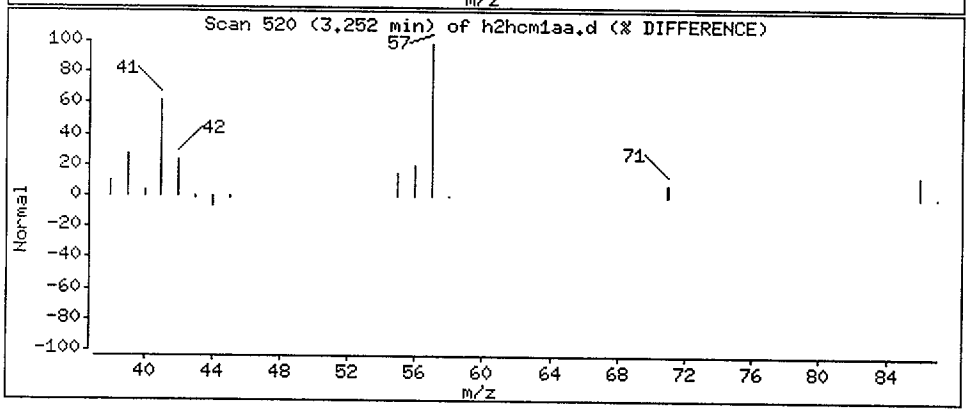












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

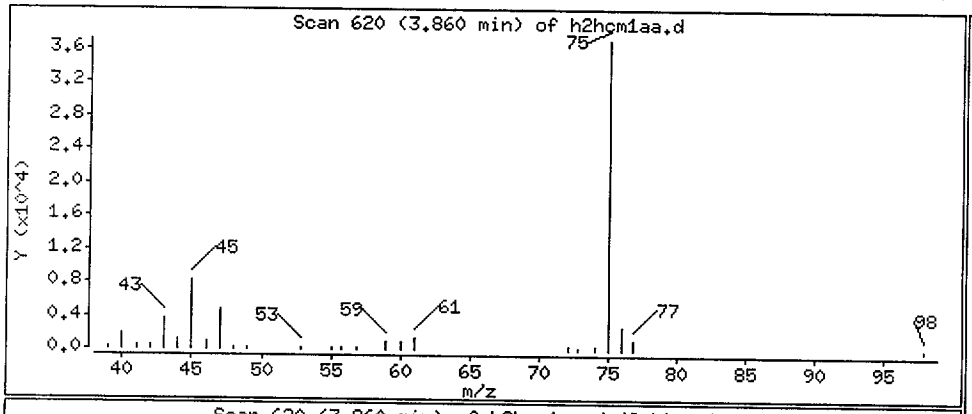
Operator: 22980

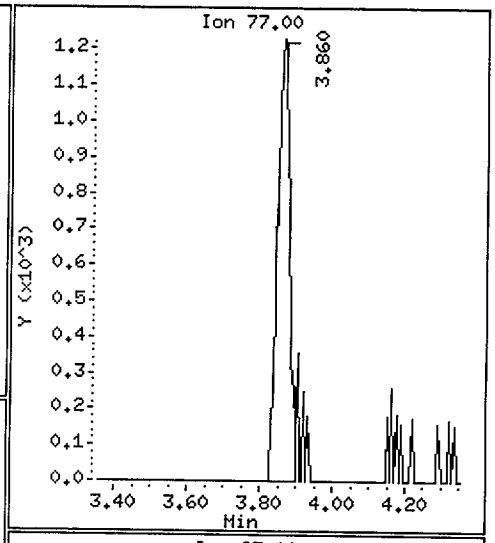
Column phase: J+W 624

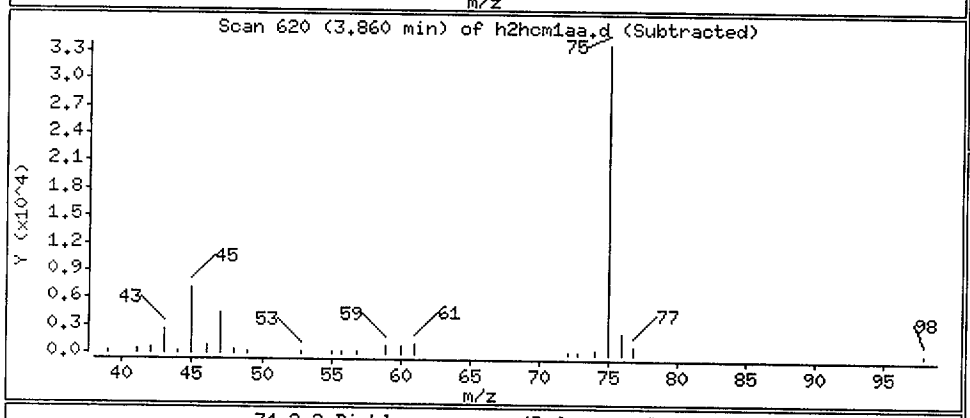
Column diameter: 0.18

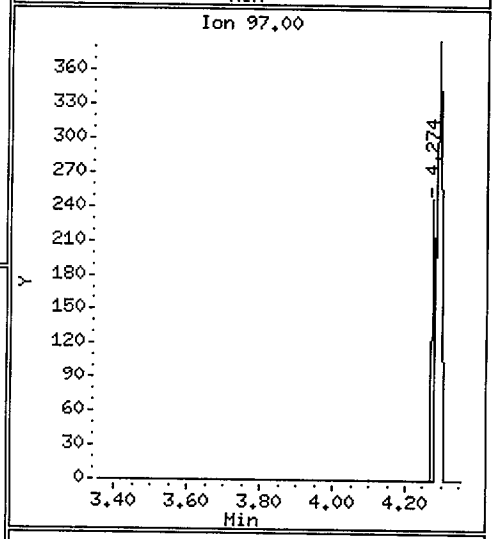
34 2,2-Dichloropropane

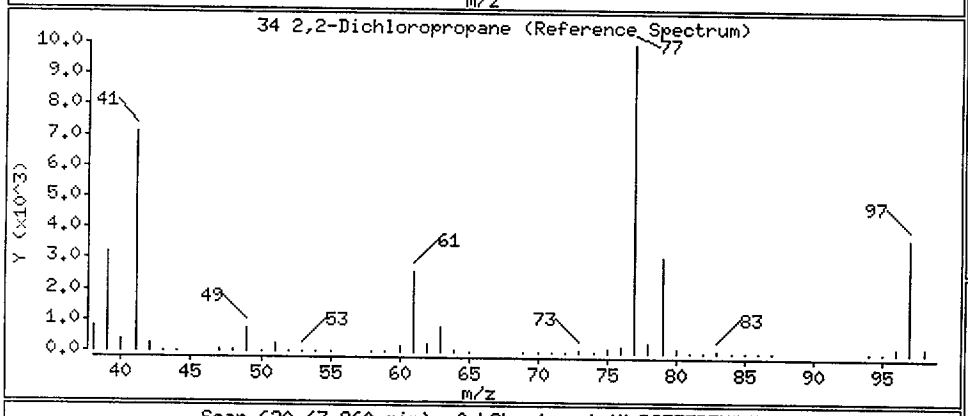
Concentration: 0.0014483 ug

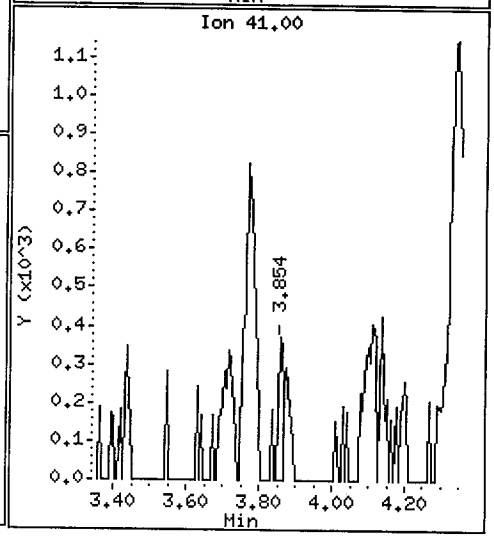


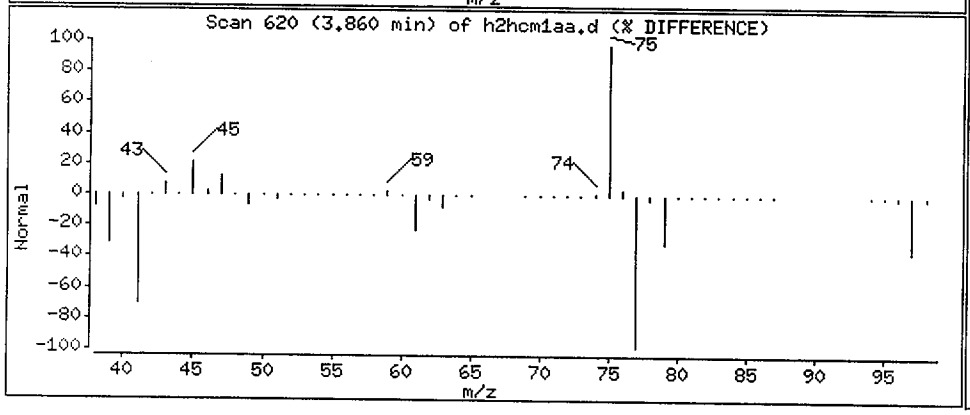












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

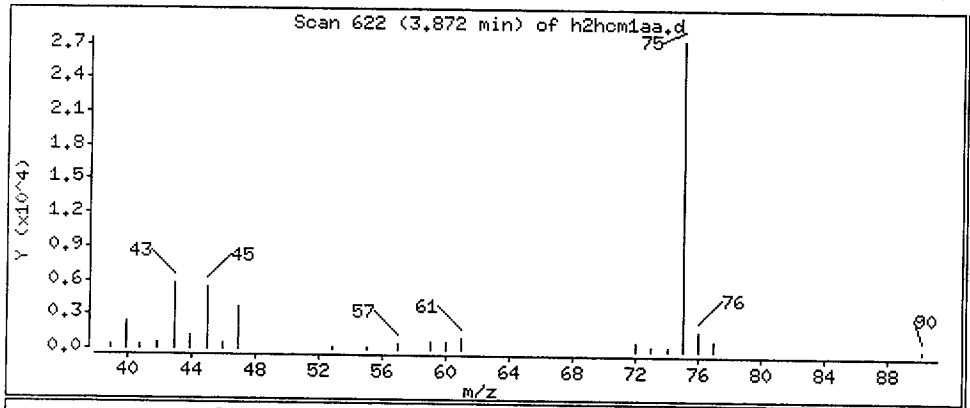
Operator: 22980

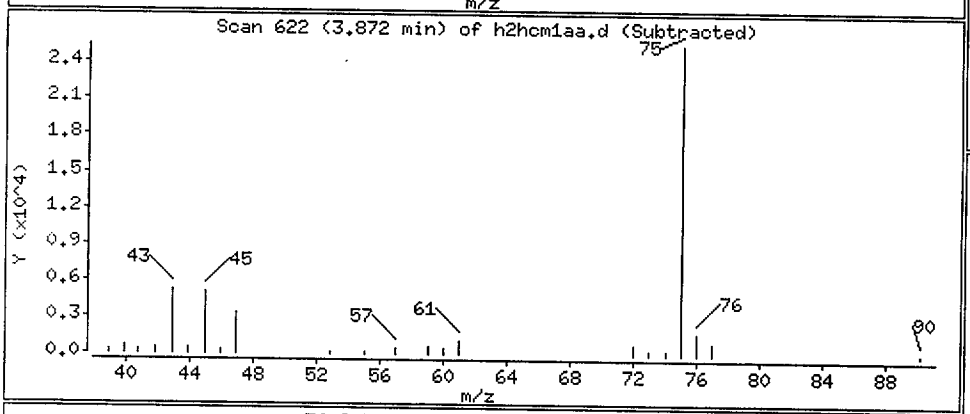
Column phase: J+W 624

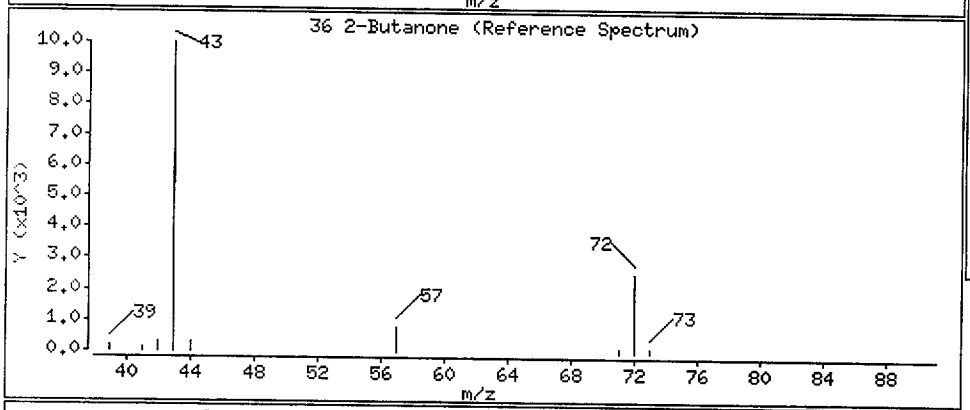
Column diameter: 0.18

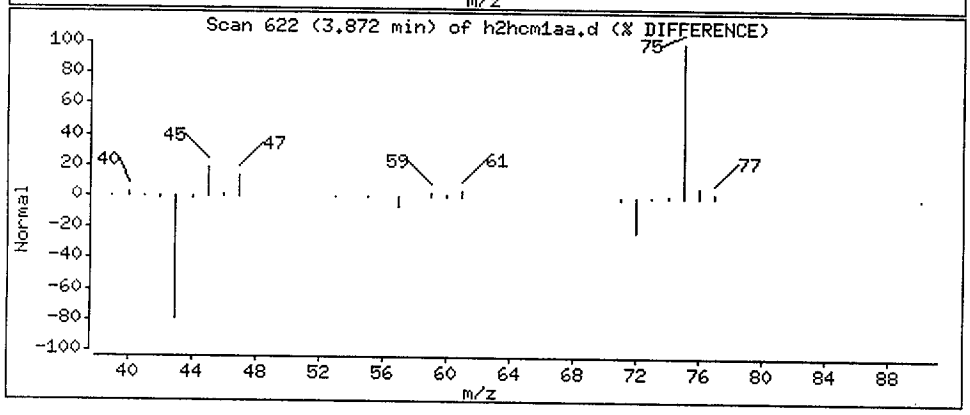
36 2-Butanone

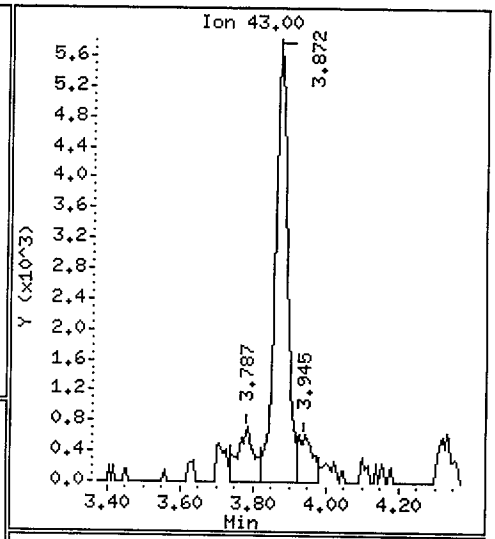
Concentration: 0.13490 ug

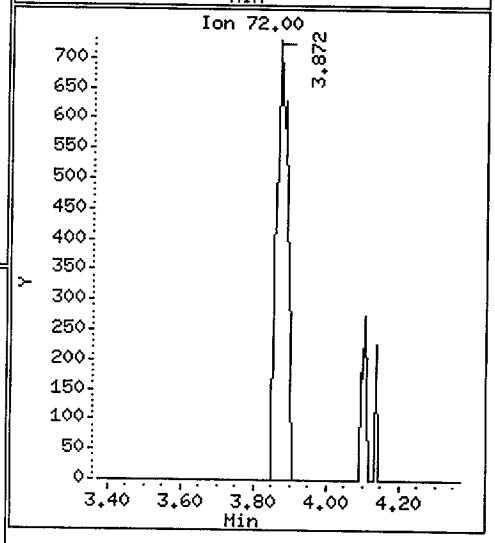












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

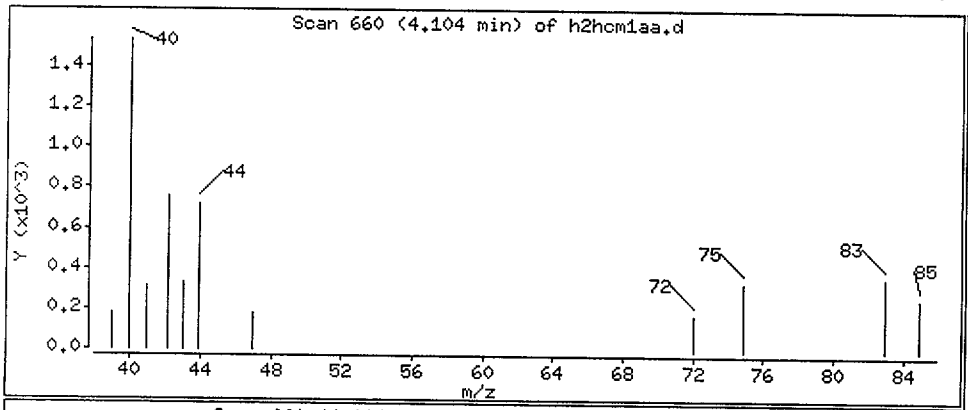
Operator: 22980

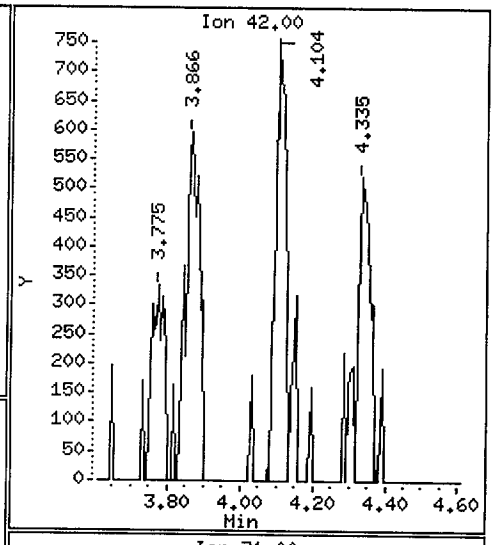
Column phase: J+W 624

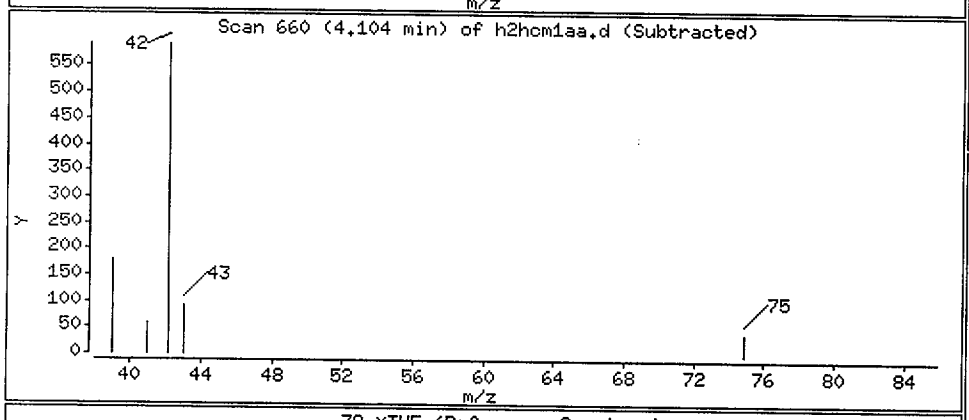
Column diameter: 0.18

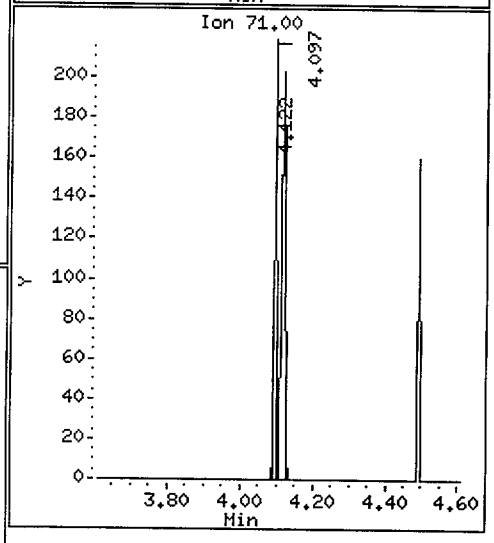
38 *THF

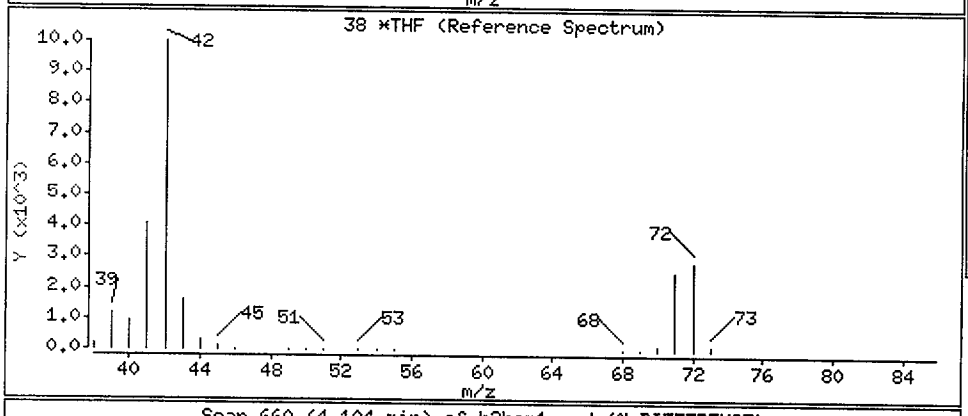
Concentration: 0.022874 ug

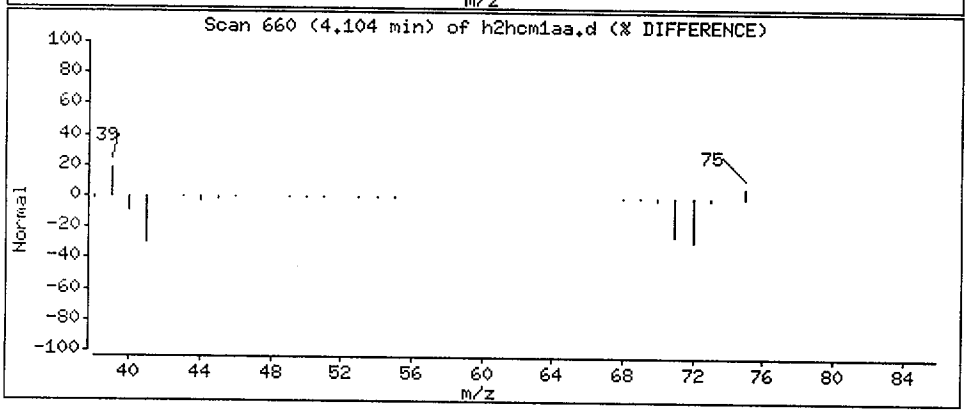












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

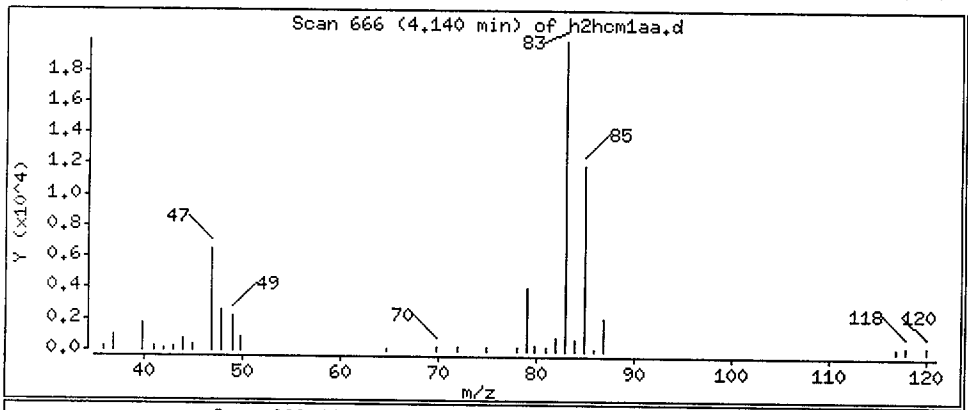
Operator: 22980

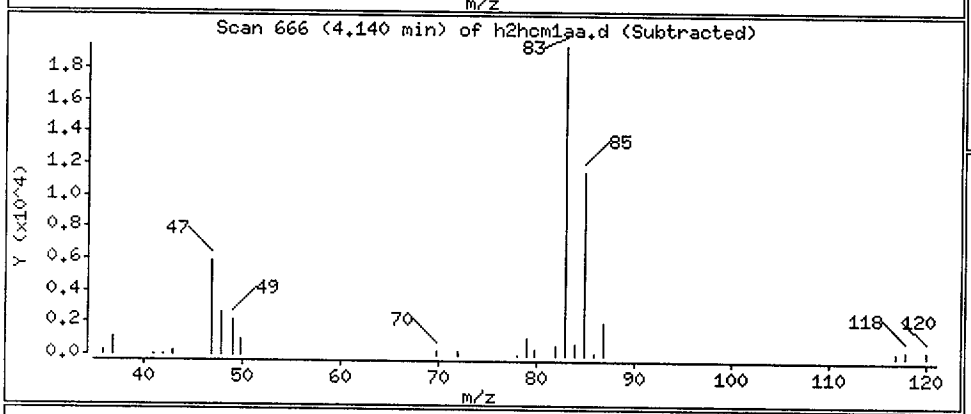
Column phase: J+W 624

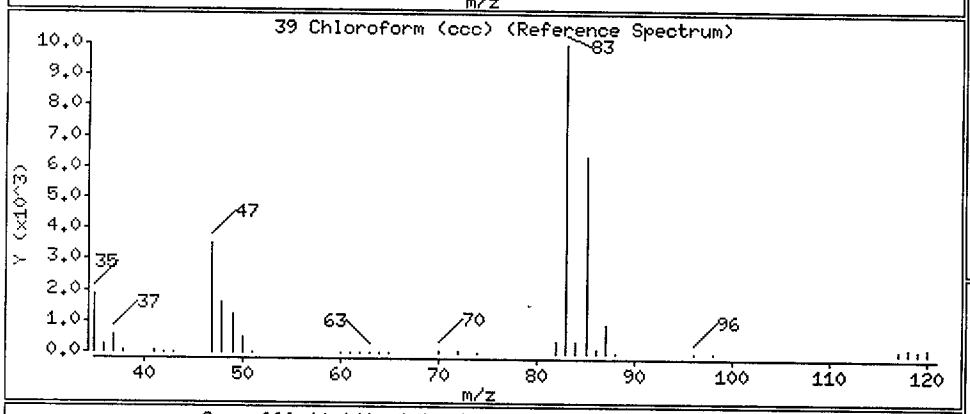
Column diameter: 0.18

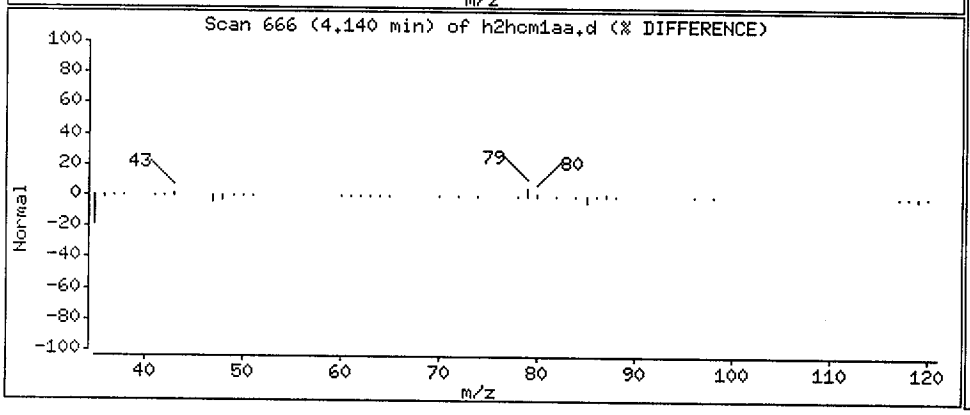
39 Chloroform (ccc)

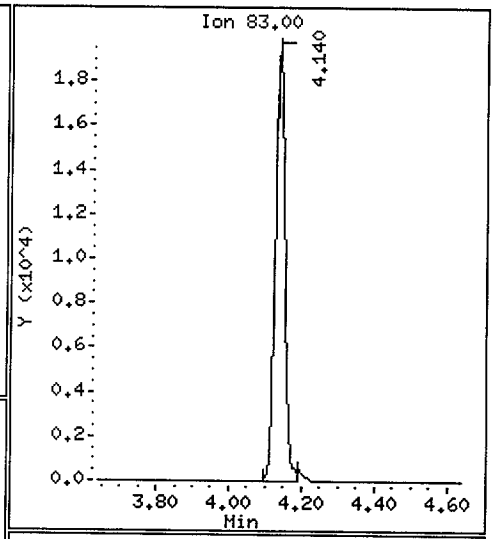
Concentration: 0.020482 ug

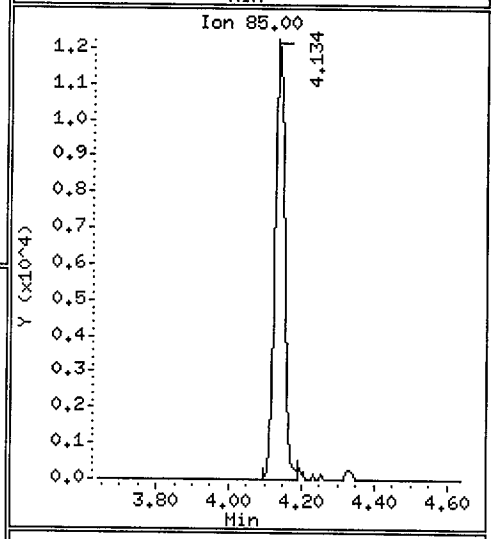


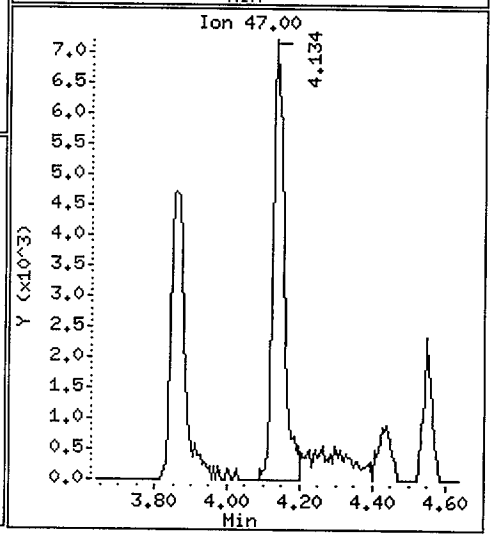












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

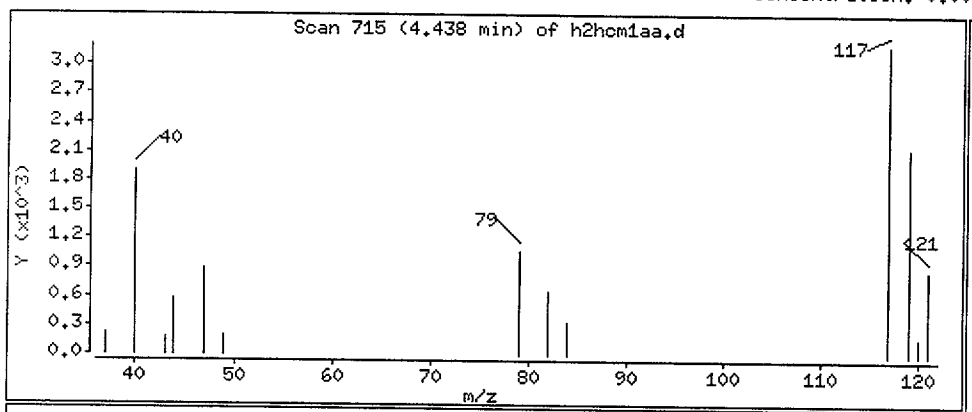
Operator: 22980

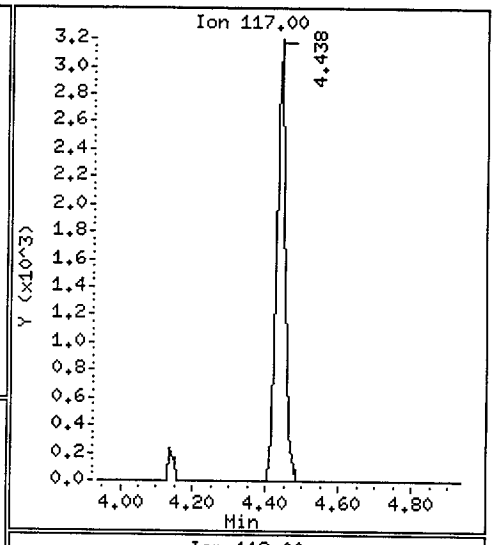
Column phase: J+W 624

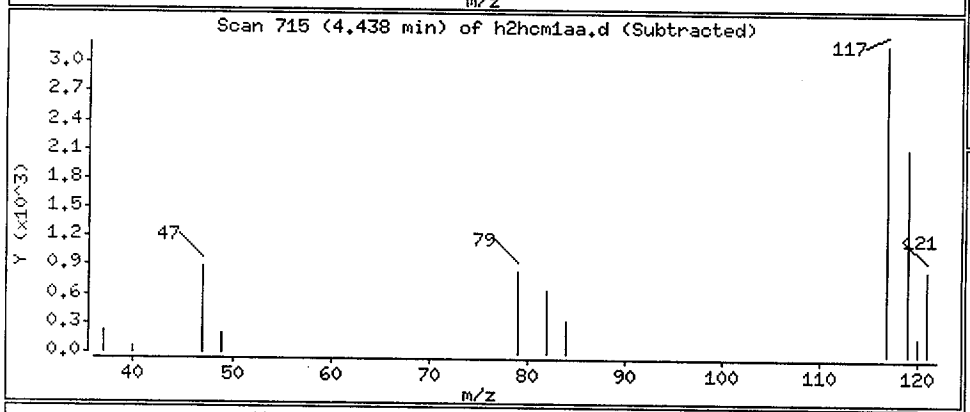
Column diameter: 0.18

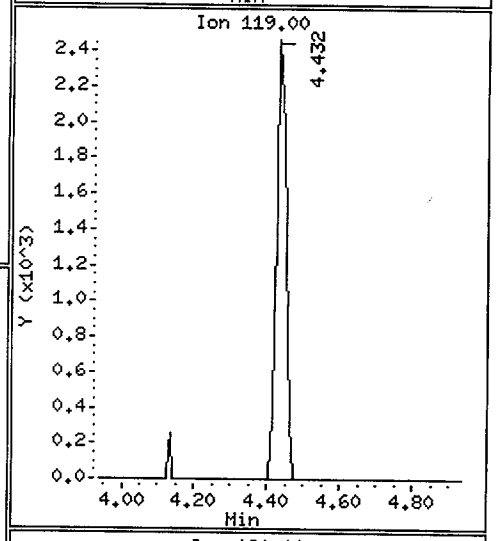
41 Carbon Tetrachloride

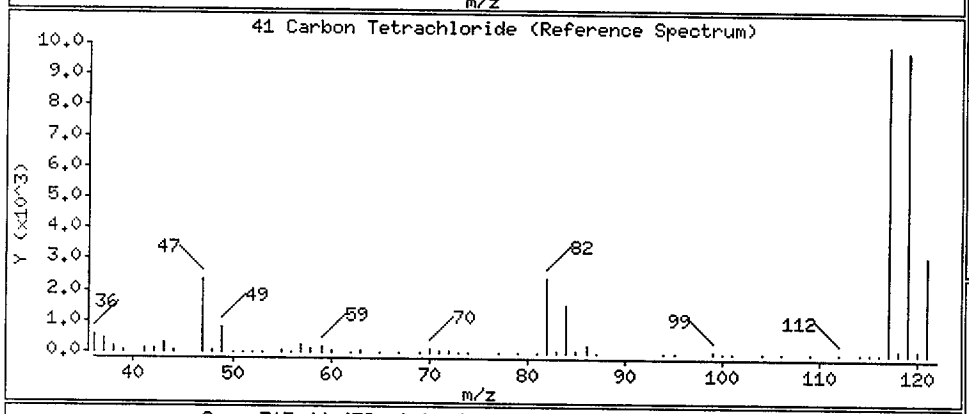
Concentration: 0.0030661 ug

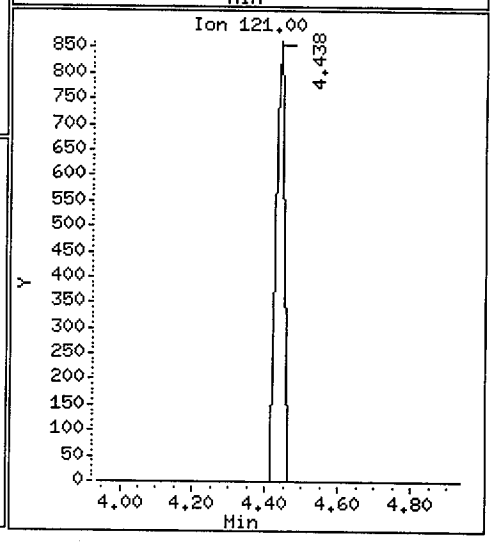


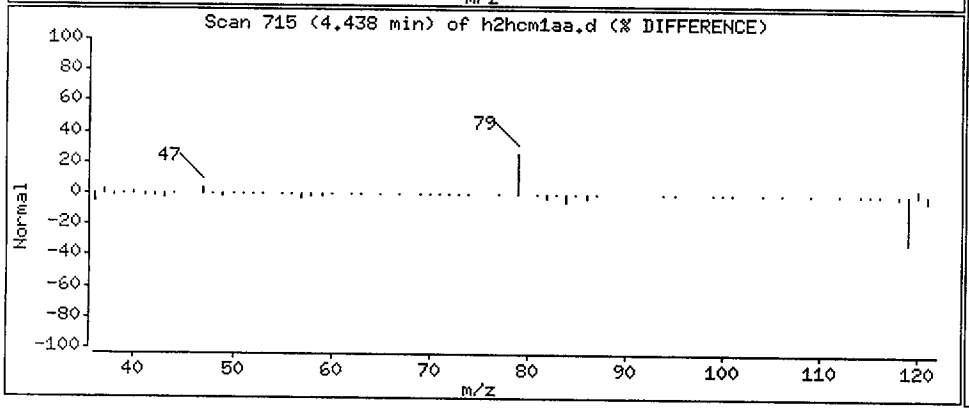












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

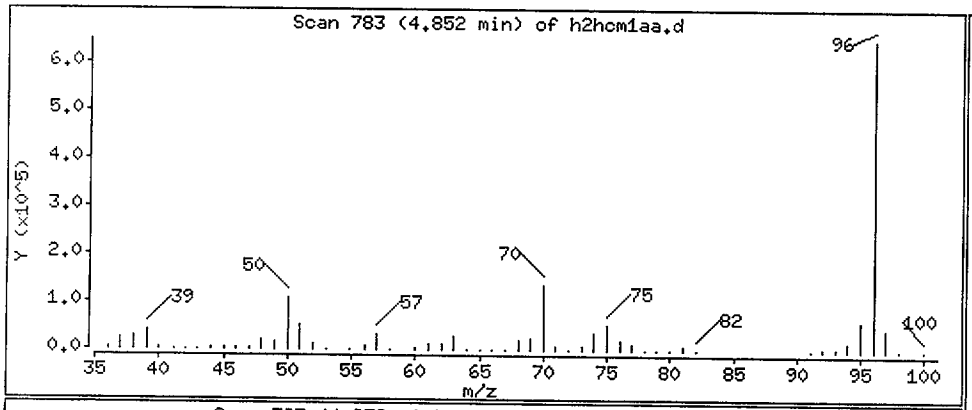
Operator: 22980

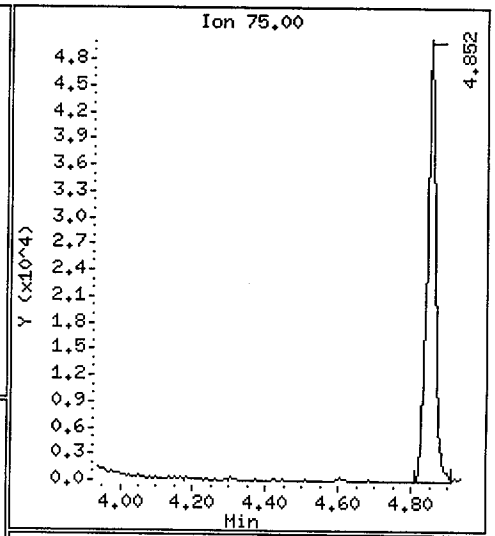
Column phase: J+W 624

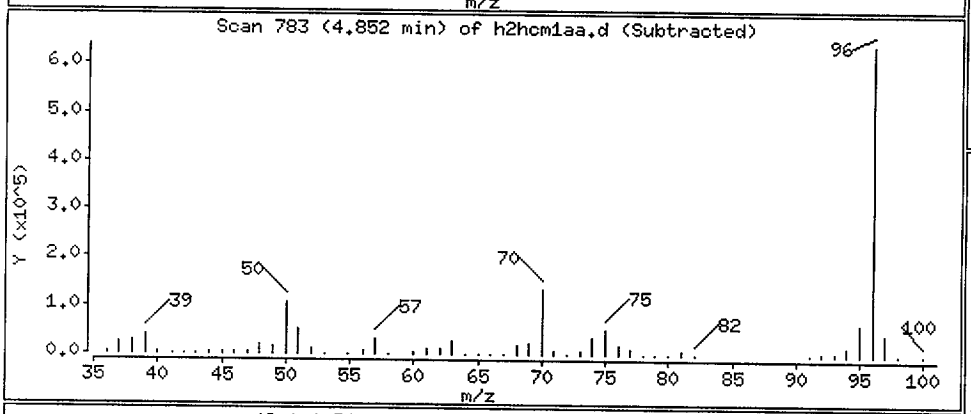
Column diameter: 0.18

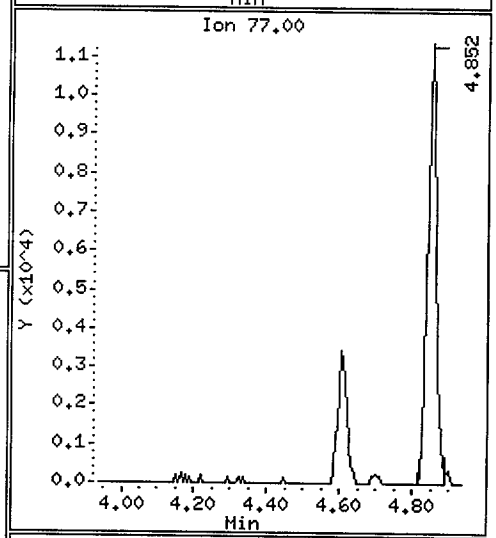
42 1,1-Dichloropropene

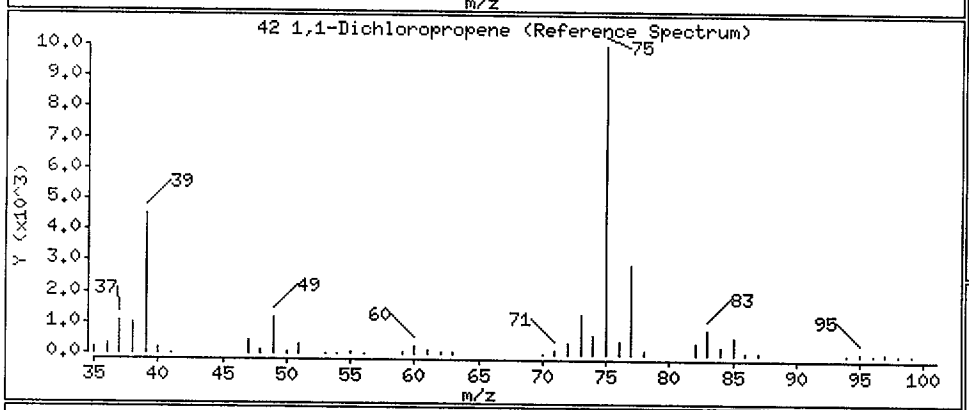
Concentration: 0.047512 ug

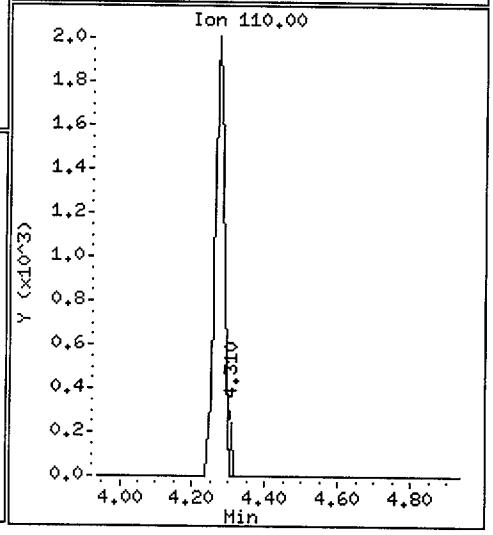


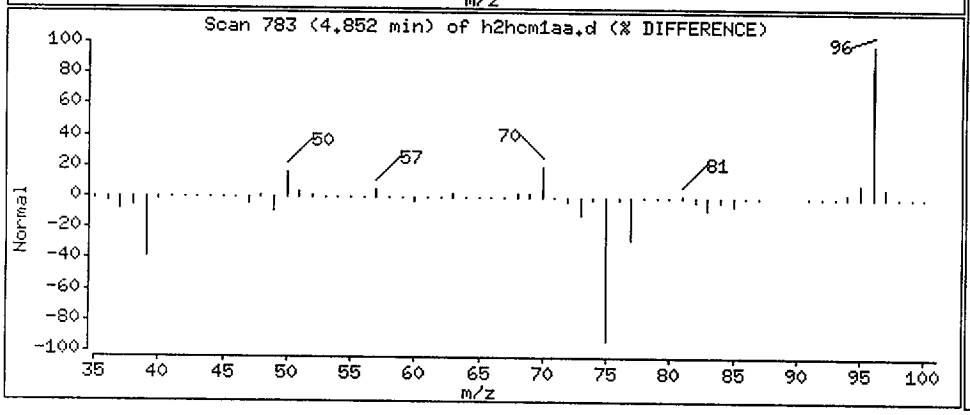












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

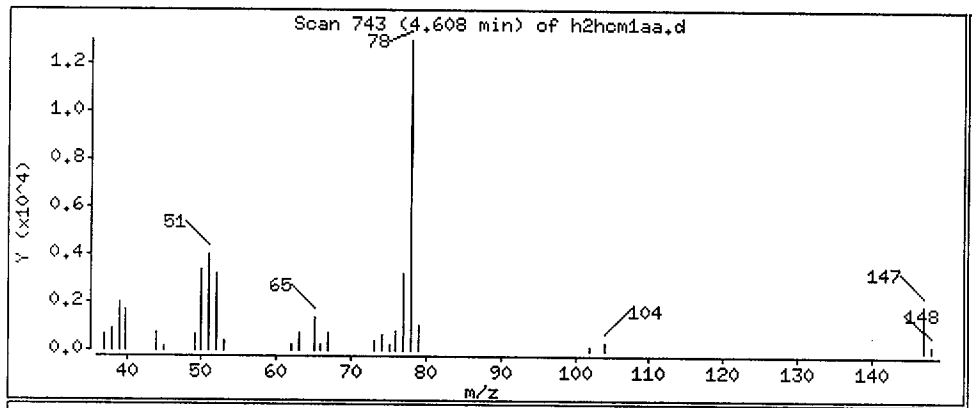
Operator: 22980

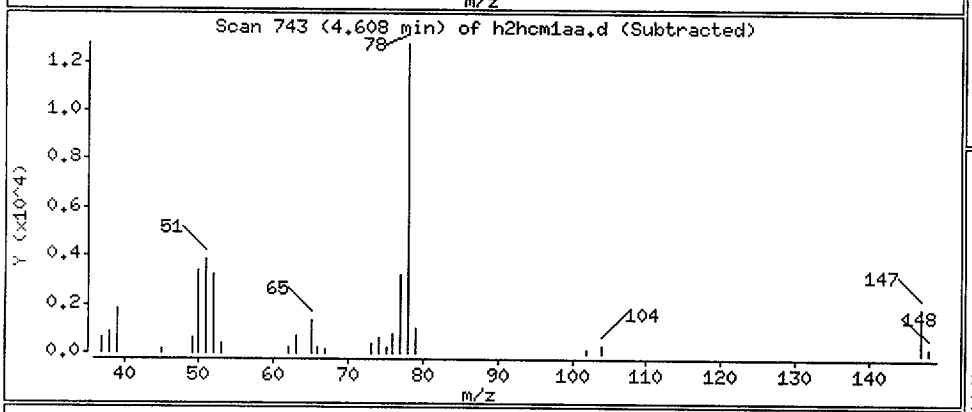
Column phase: J+W 624

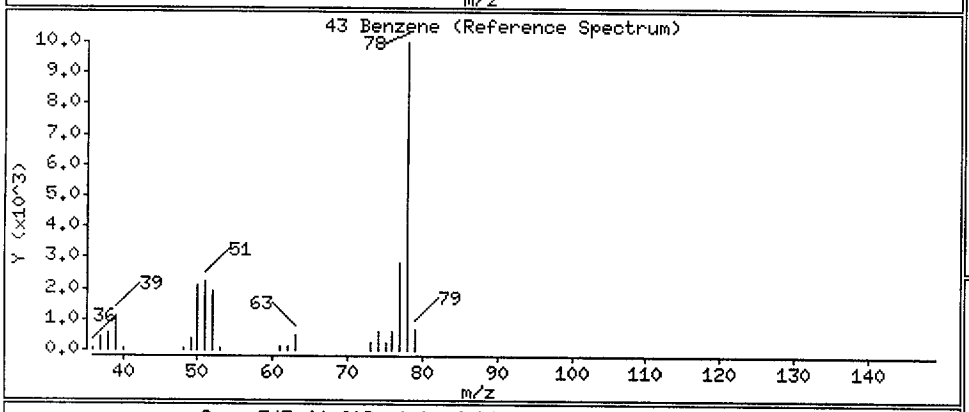
Column diameter: 0.18

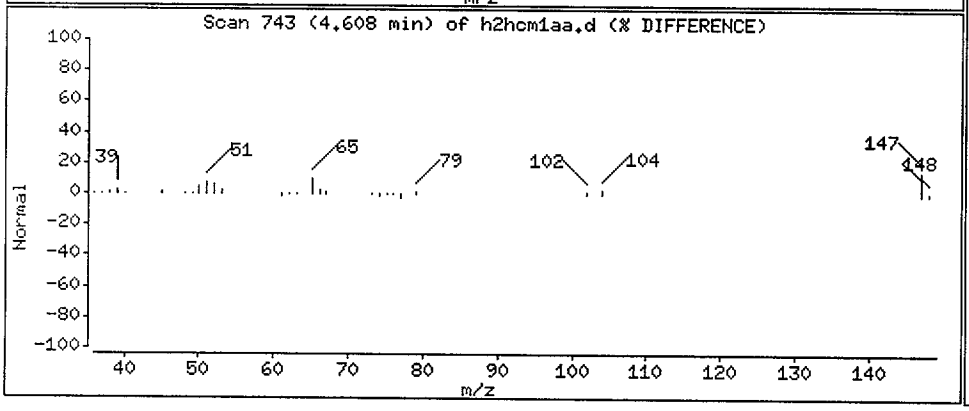
43 Benzene

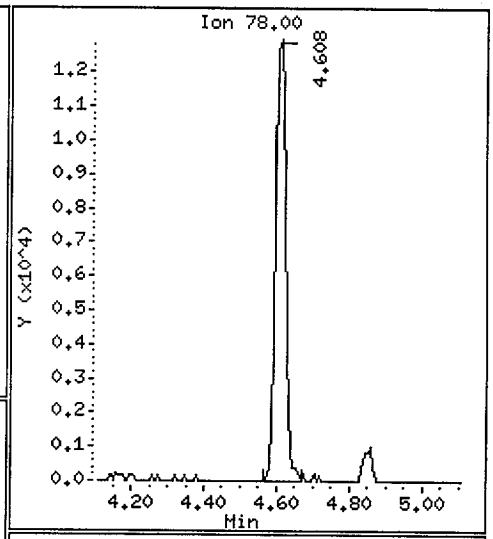
Concentration: 0.0053847 ug

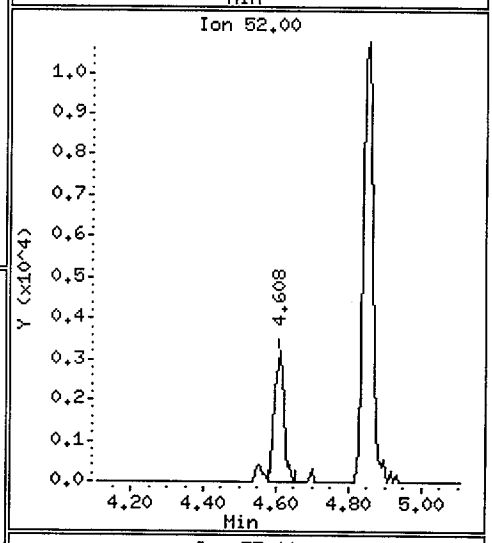


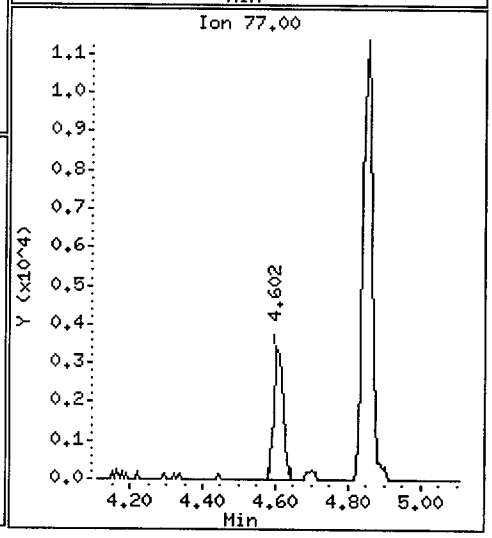












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

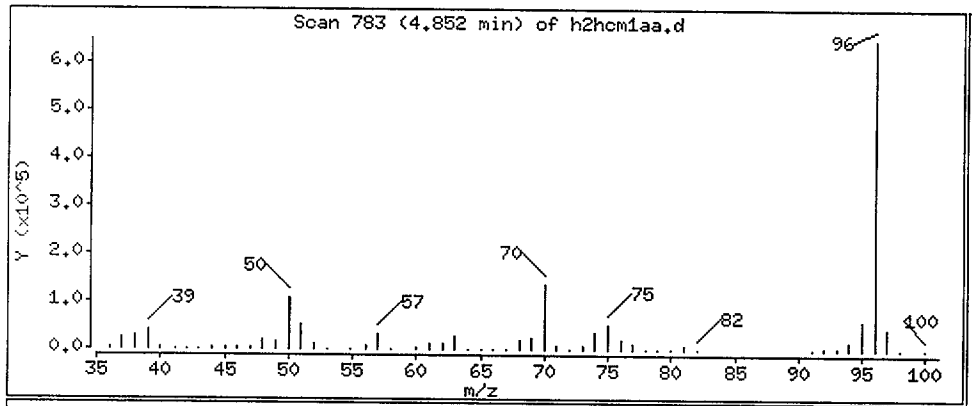
Operator: 22980

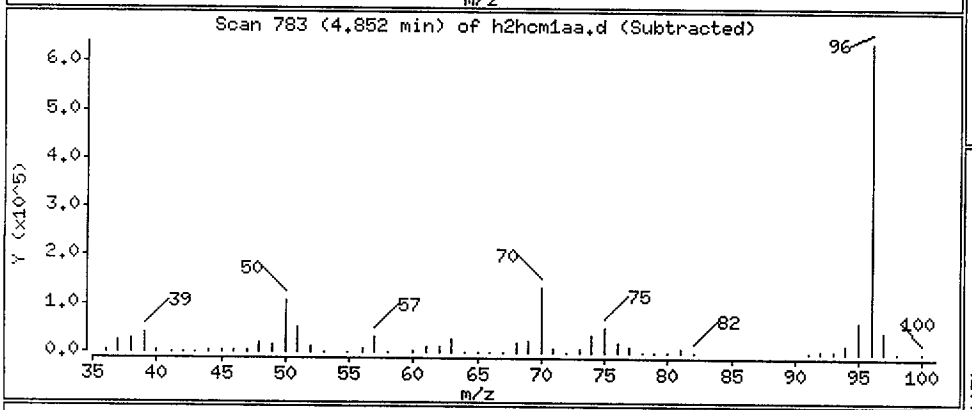
Column phase: J+W 624

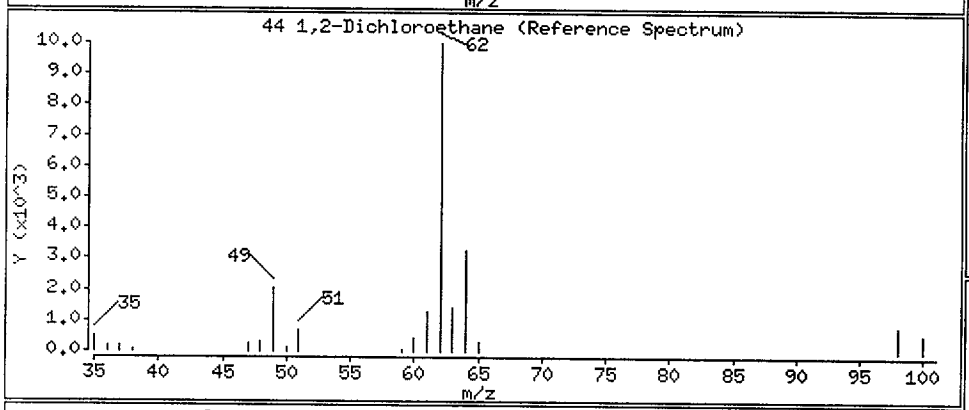
Column diameter: 0.18

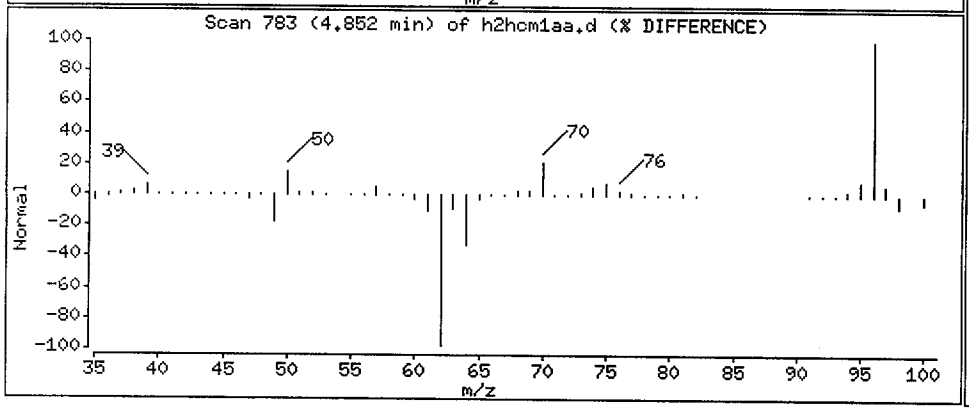
44 1,2-Dichloroethane

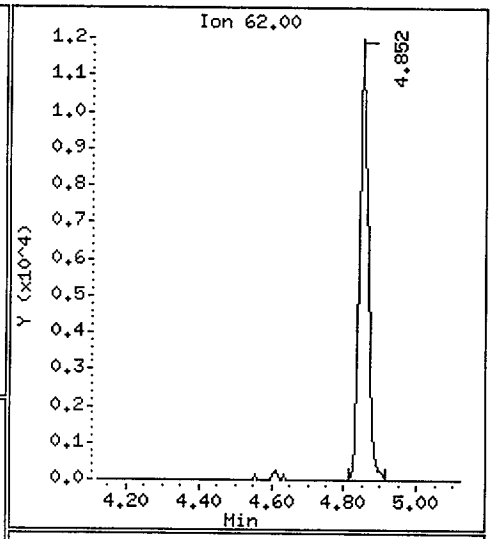
Concentration: 0.025510 ug

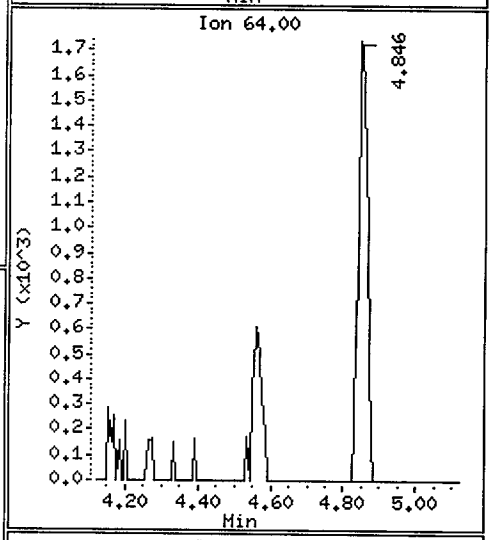


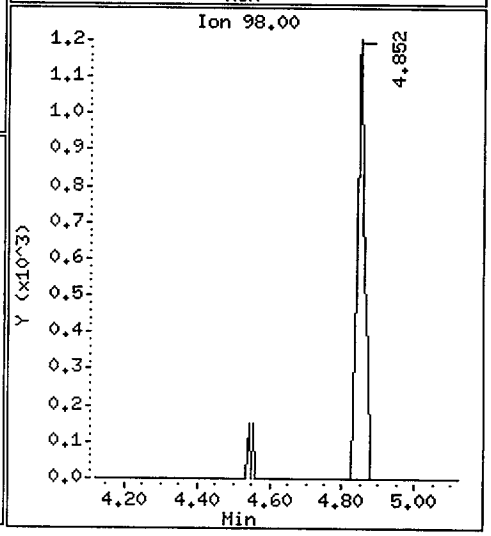












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

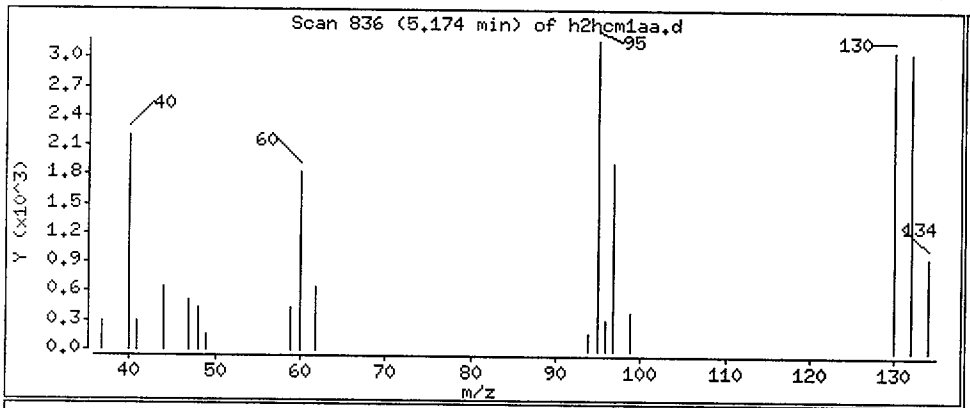
Operator: 22980

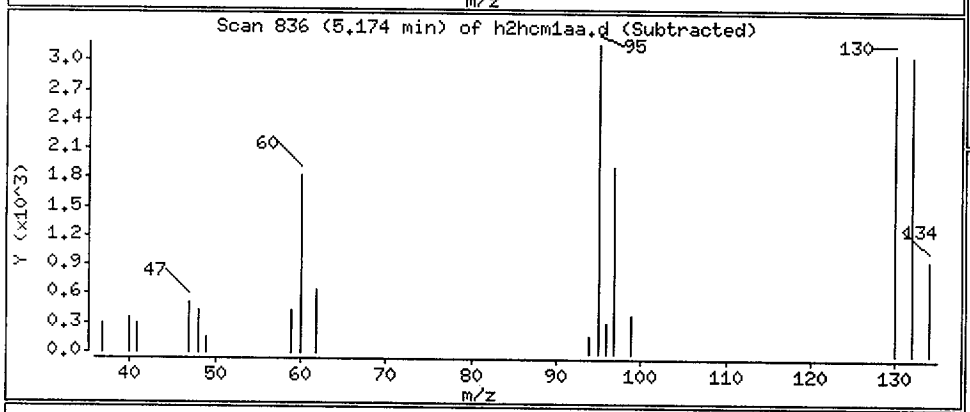
Column phase: J+W 624

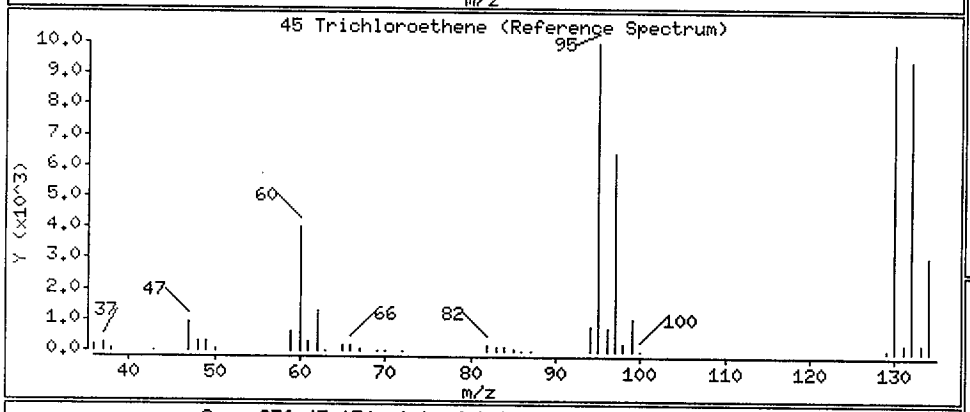
Column diameter: 0.18

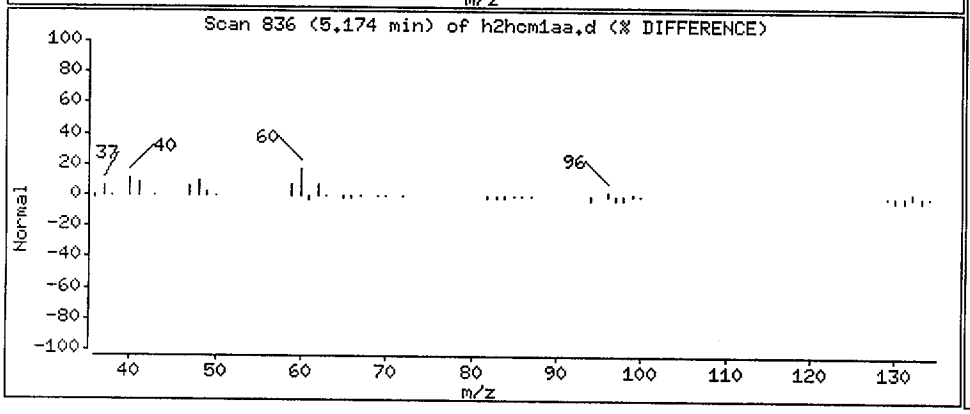
45 Trichloroethene

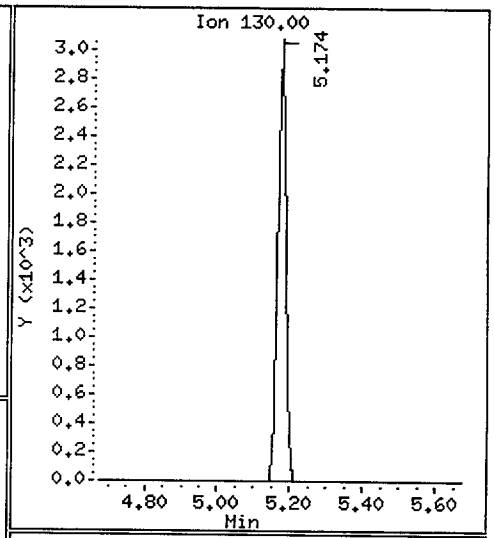
Concentration: 0.0036482 ug

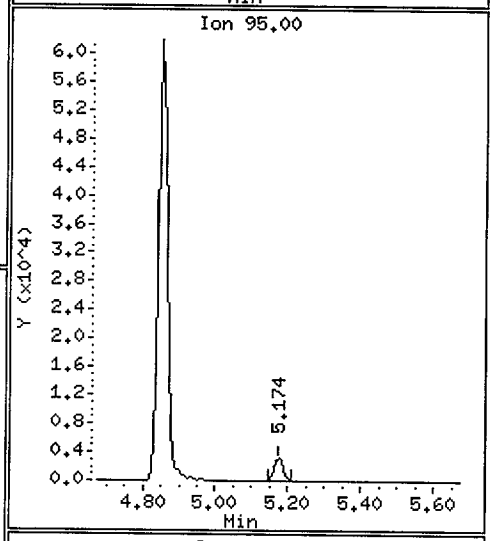


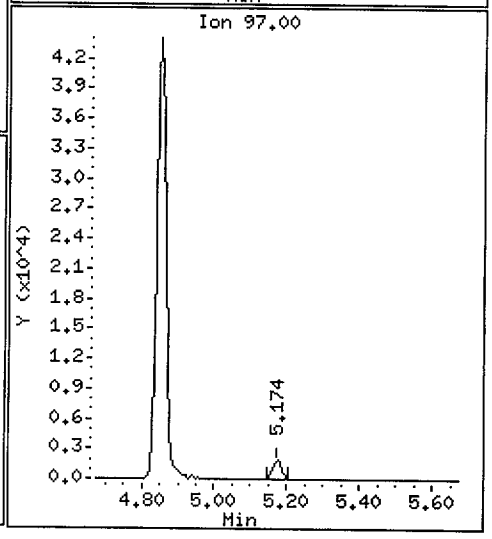












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

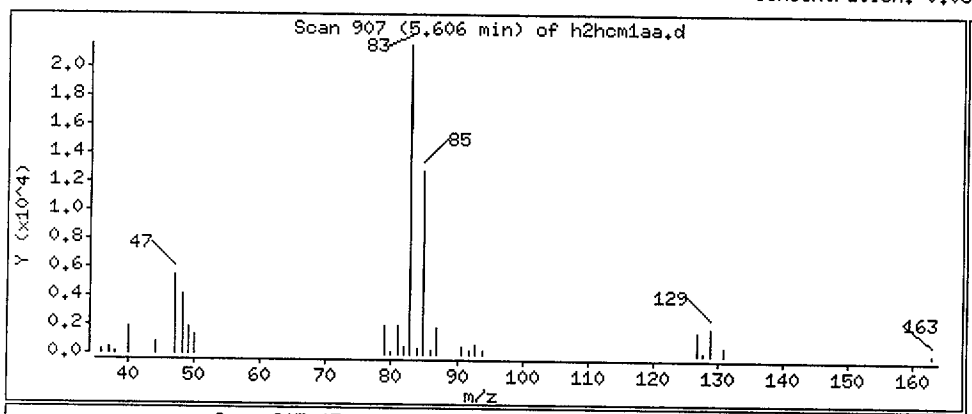
Operator: 22980

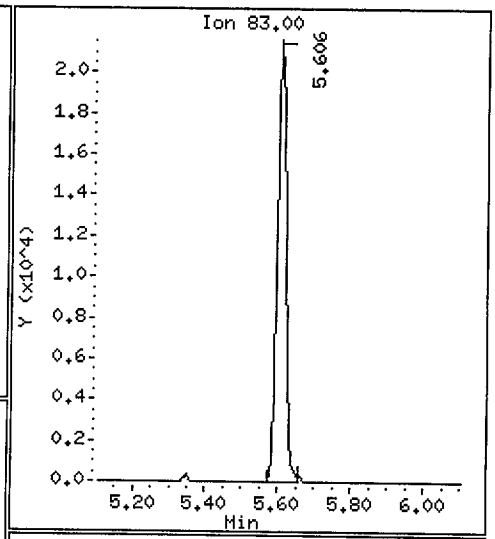
Column phase: J+W 624

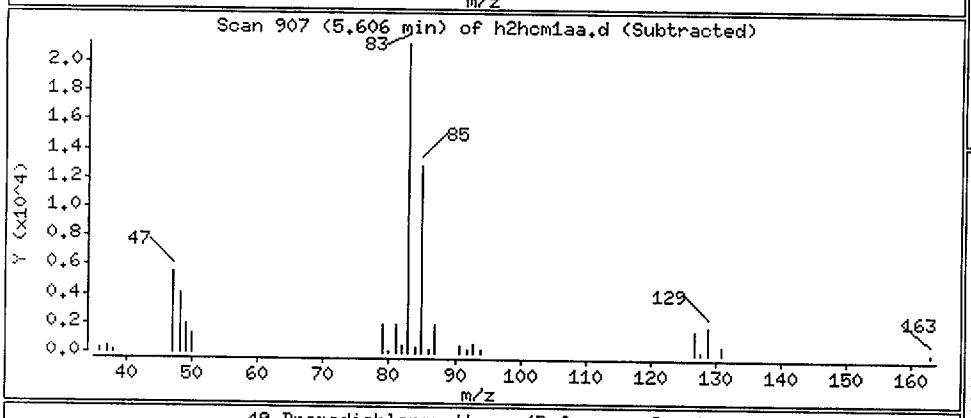
Column diameter: 0.18

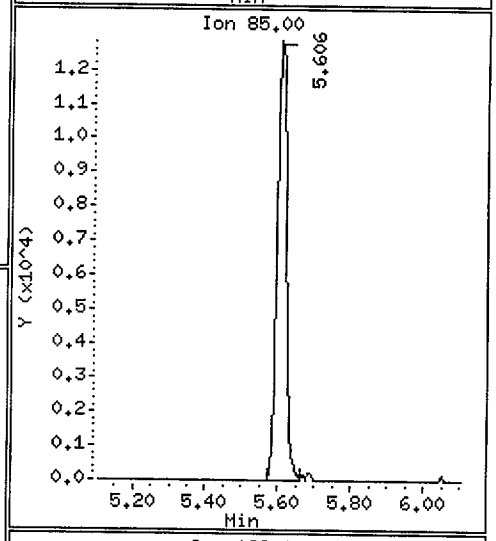
49 Bromodichloromethane

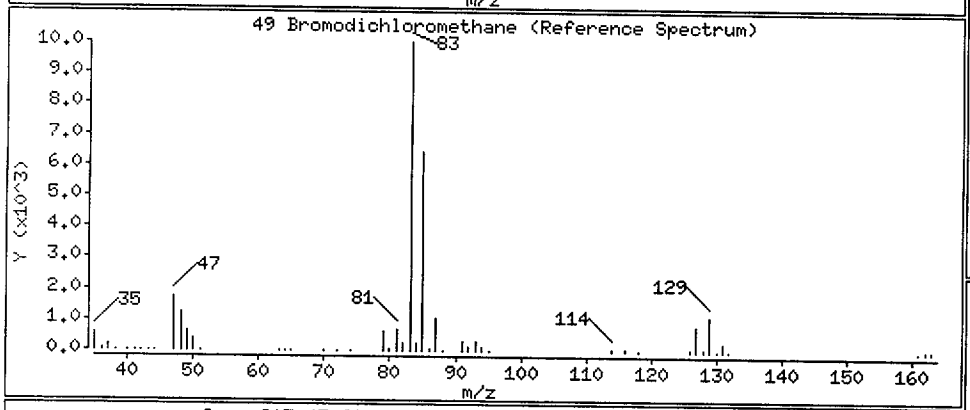
Concentration: 0.036343 ug

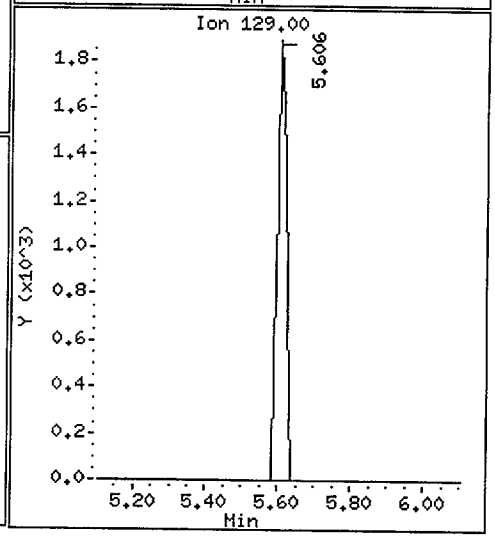


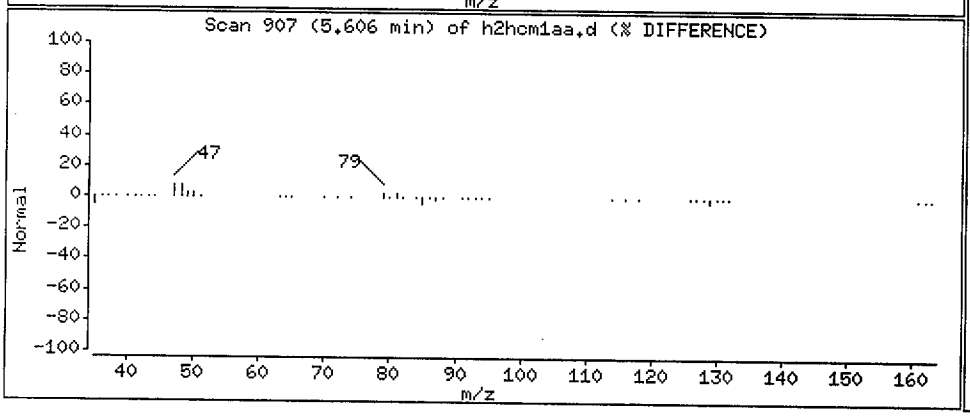












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

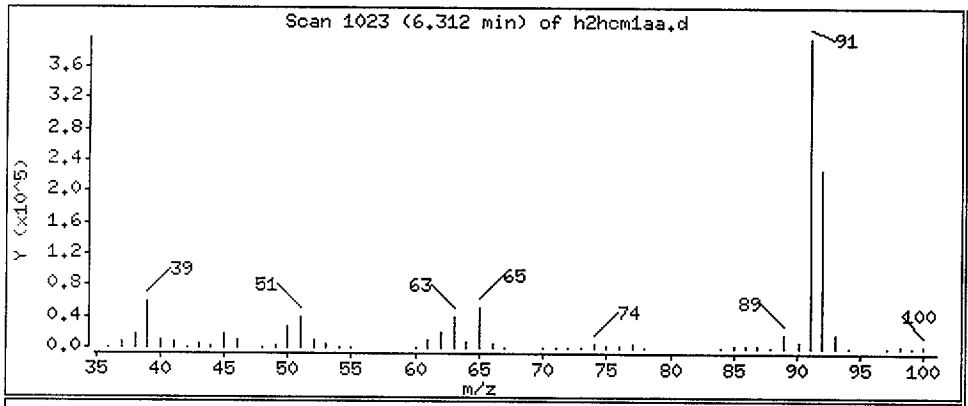
Operator: 22980

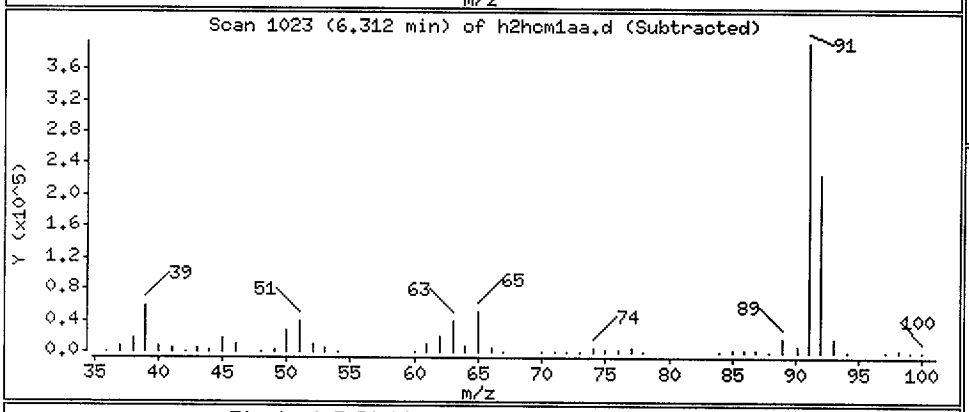
Column phase: J+W 624

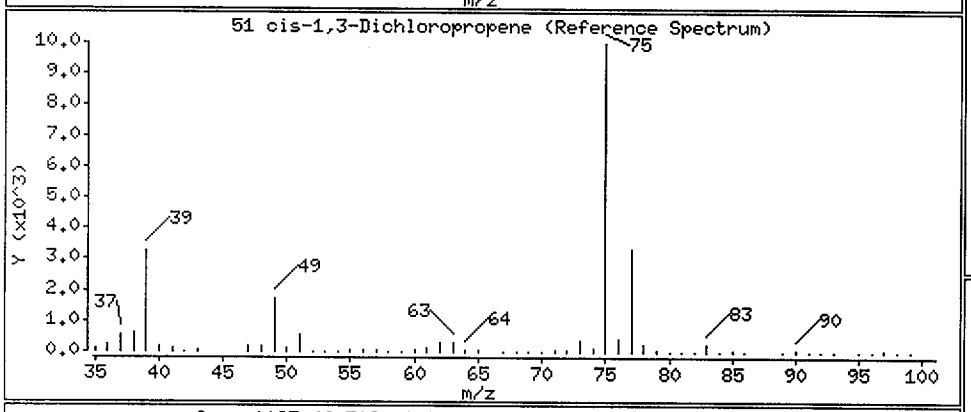
Column diameter: 0.18

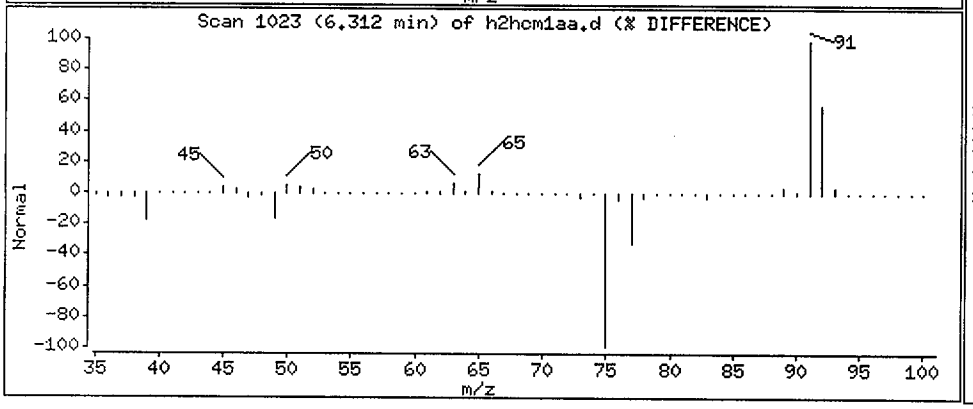
51 cis-1,3-Dichloropropene

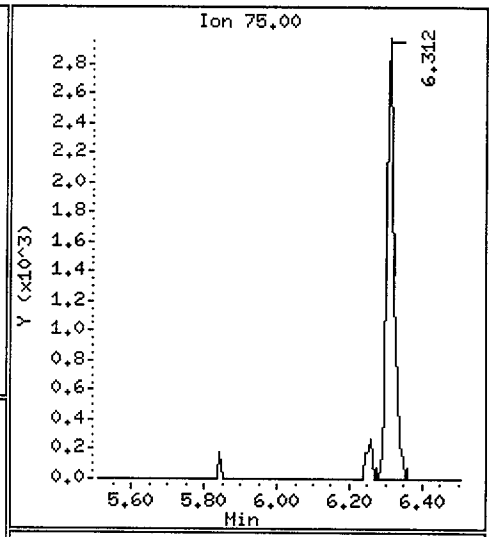
Concentration: 0.0040412 ug

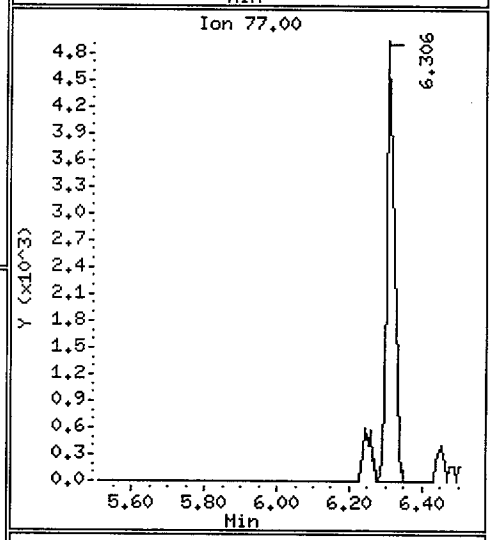


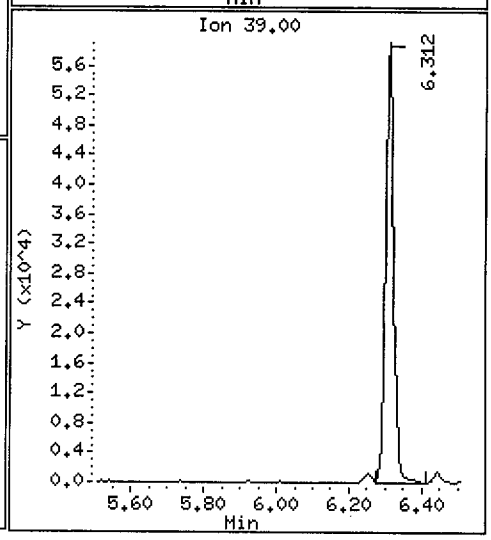












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

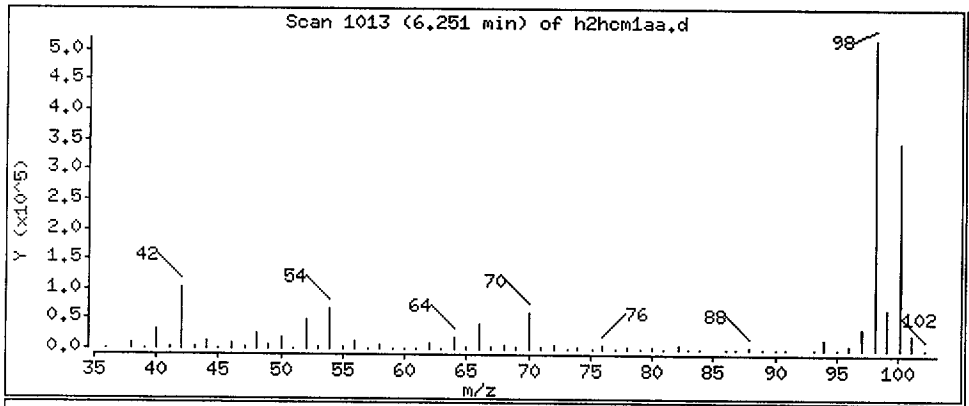
Operator: 22980

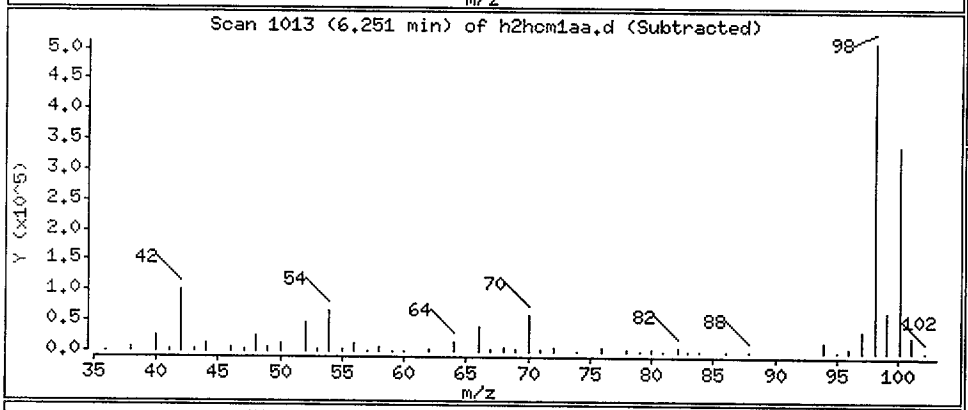
Column phase: J+W 624

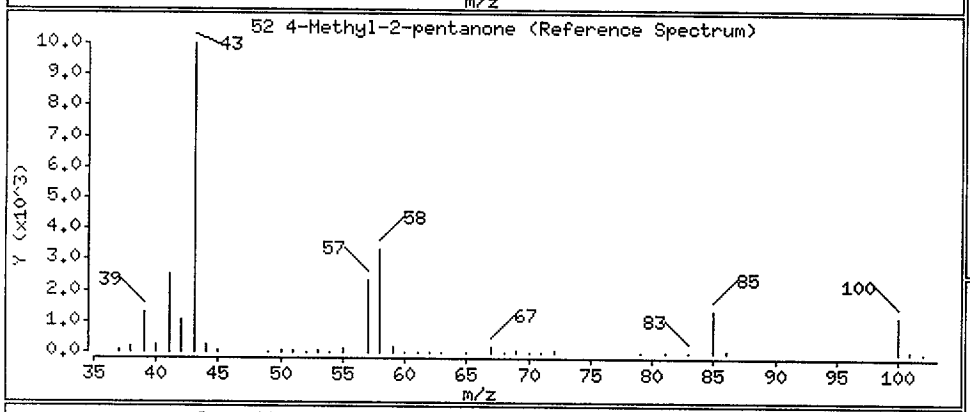
Column diameter: 0.18

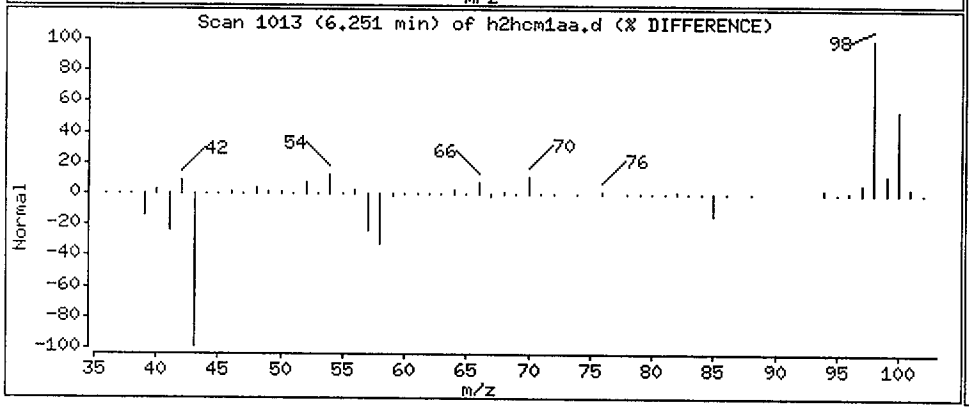
52 4-Methyl-2-pentanone

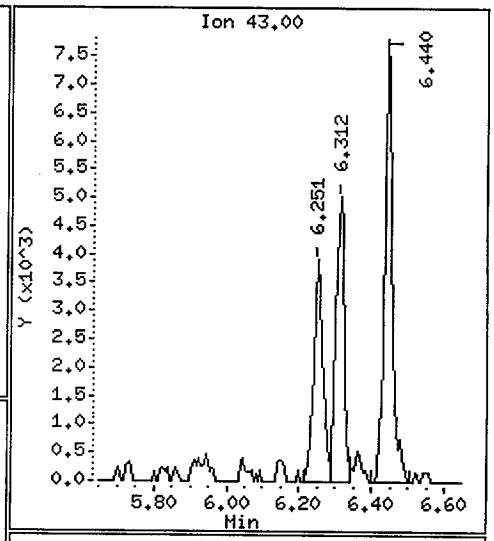
Concentration: 0.029460 ug

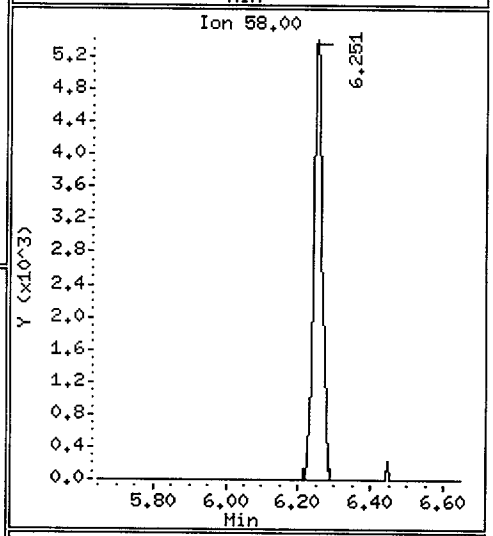


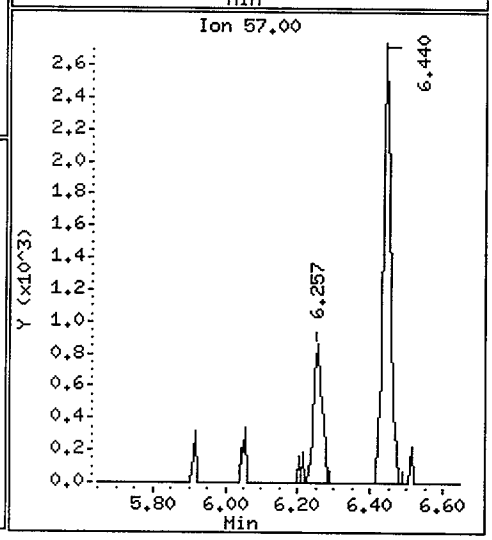












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

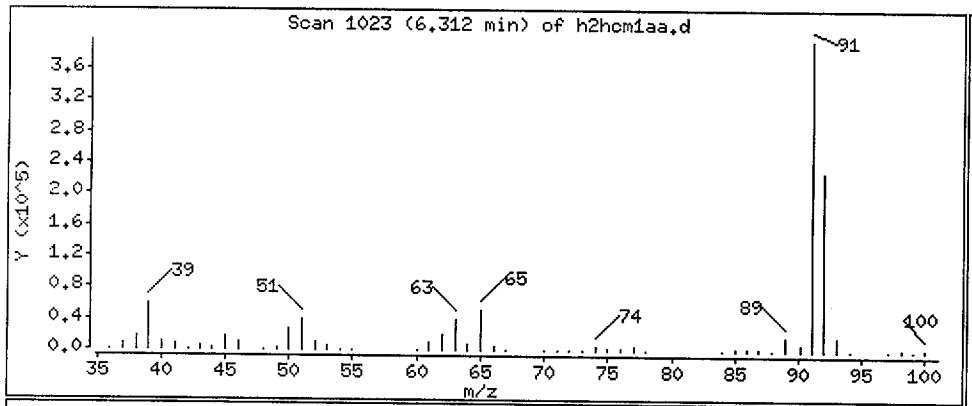
Operator: 22980

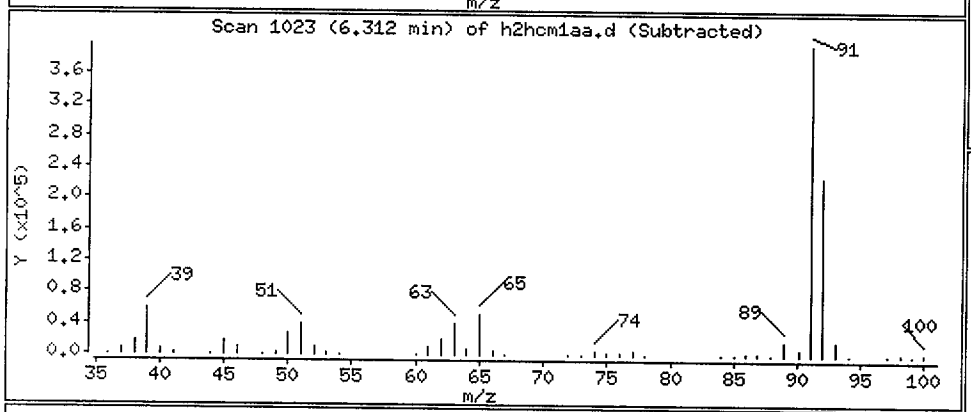
Column phase: J+W 624

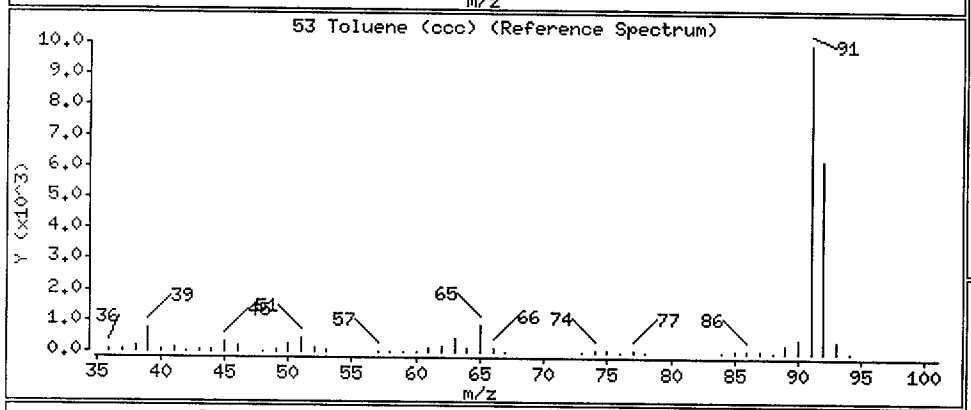
Column diameter: 0.18

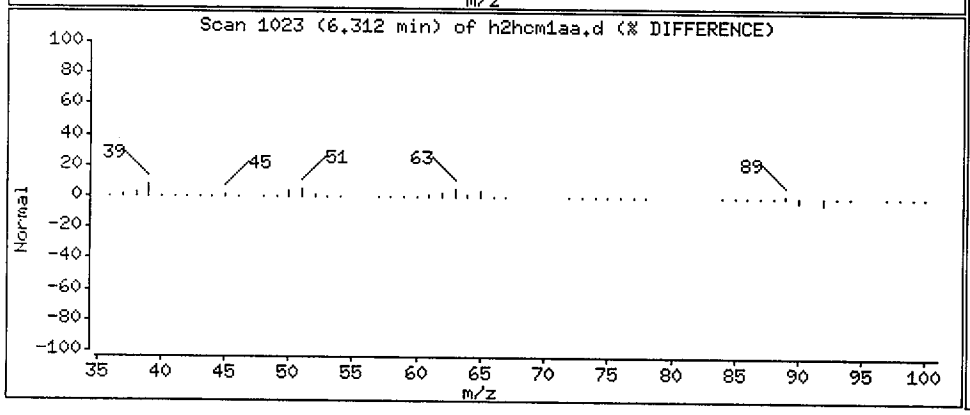
53 Toluene (ccc)

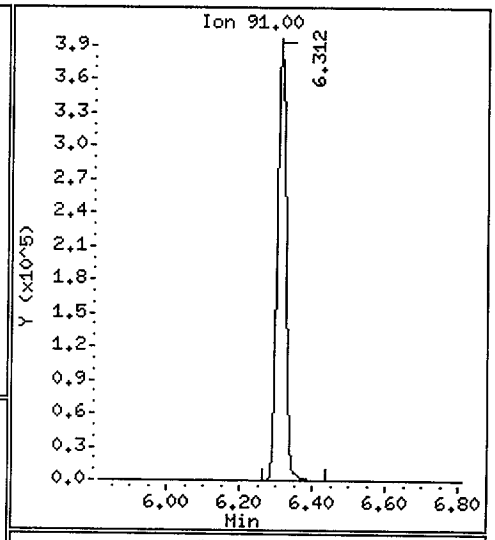
Concentration: 0.12117 ug

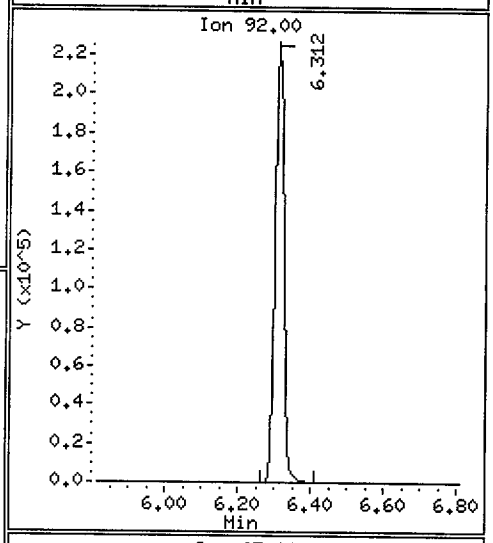


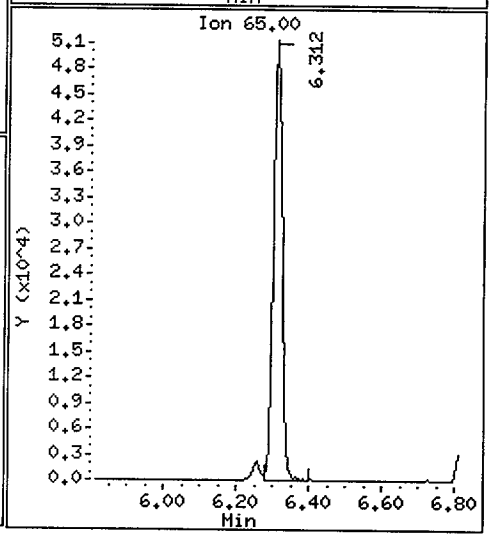












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

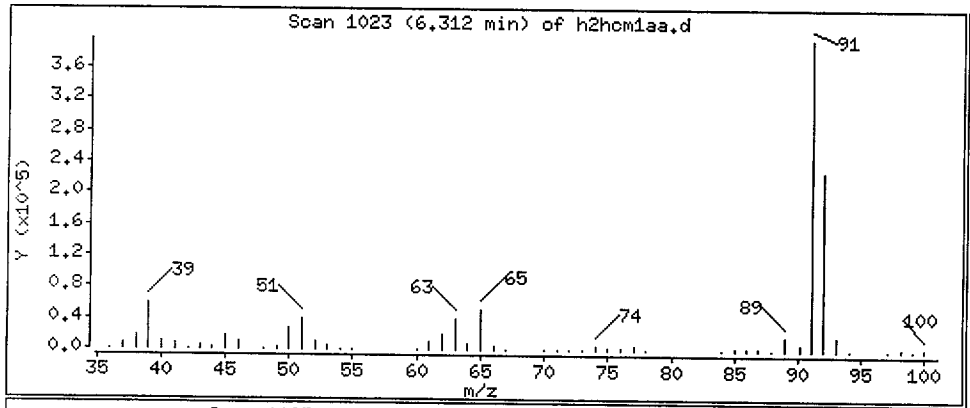
Operator: 22980

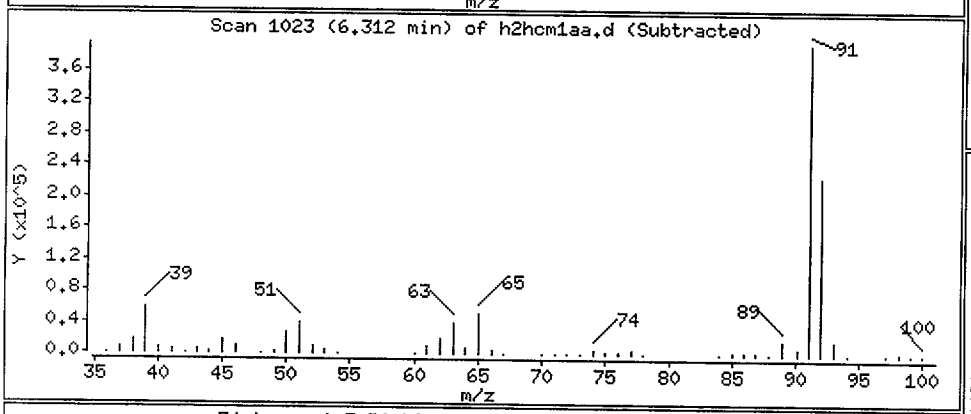
Column phase: J+W 624

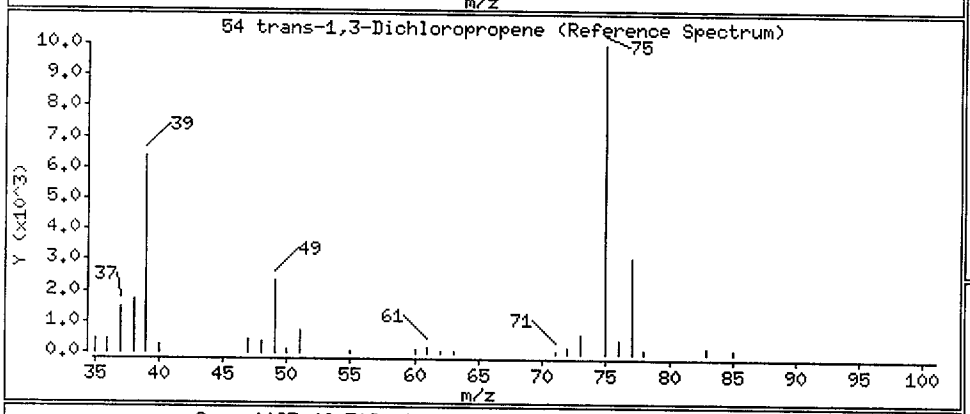
Column diameter: 0.18

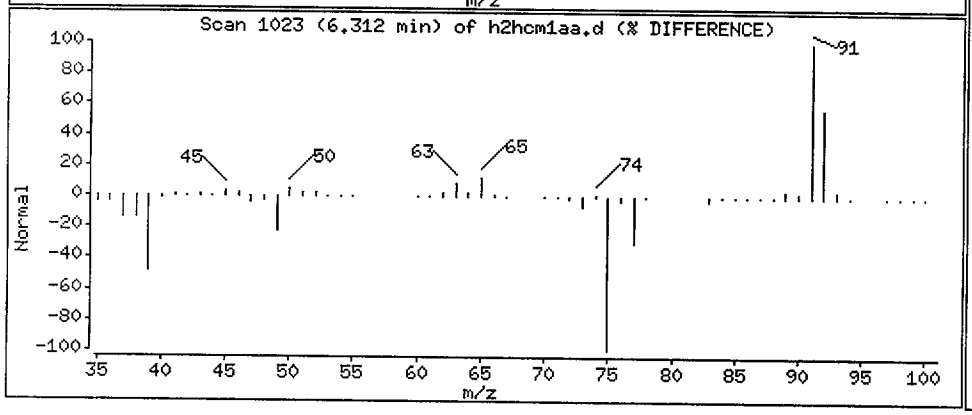
54 trans-1,3-Dichloropropene

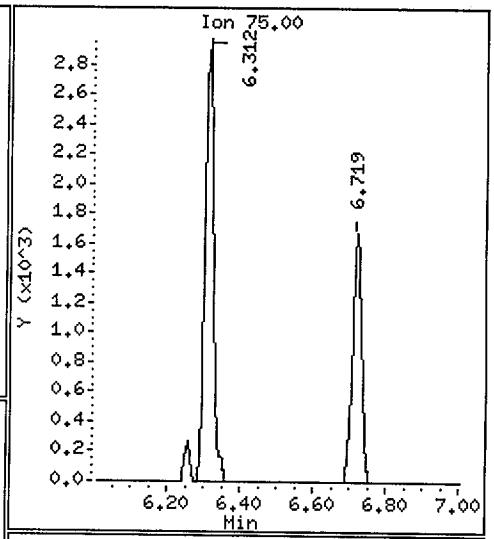
Concentration: 0.0049352 ug

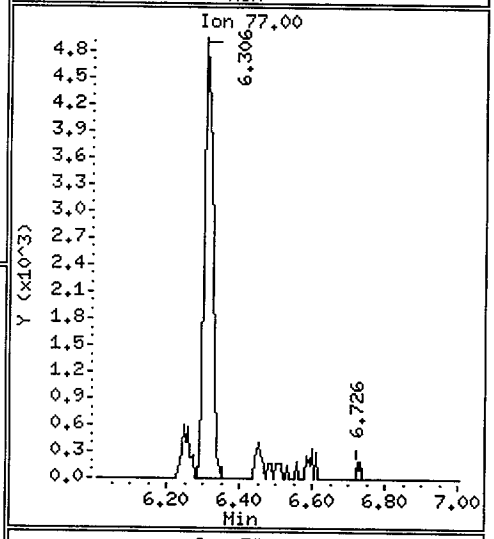


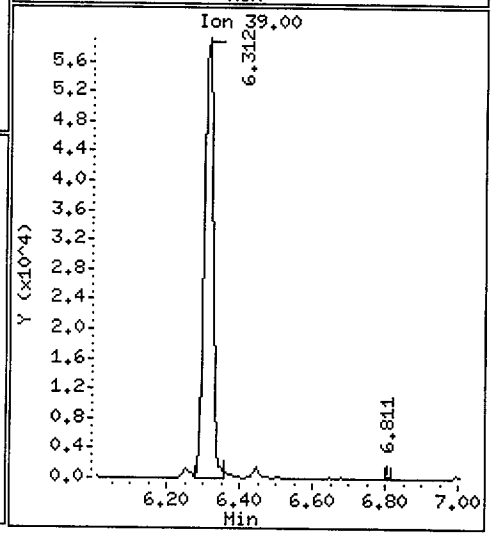












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

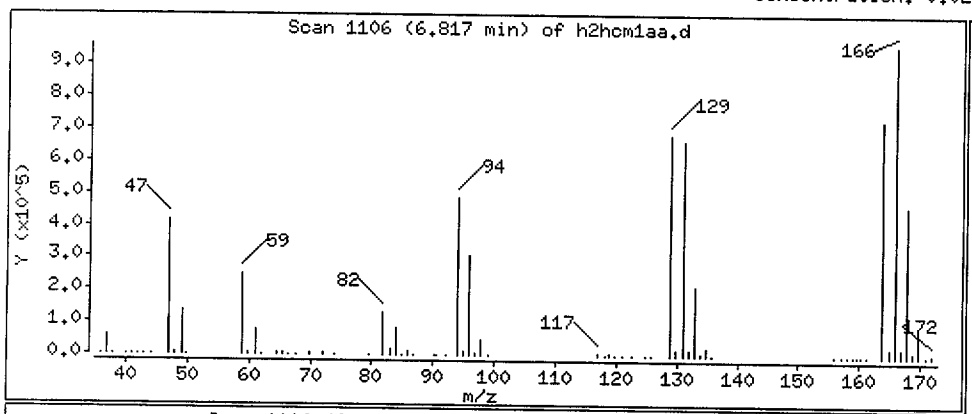
Operator: 22980

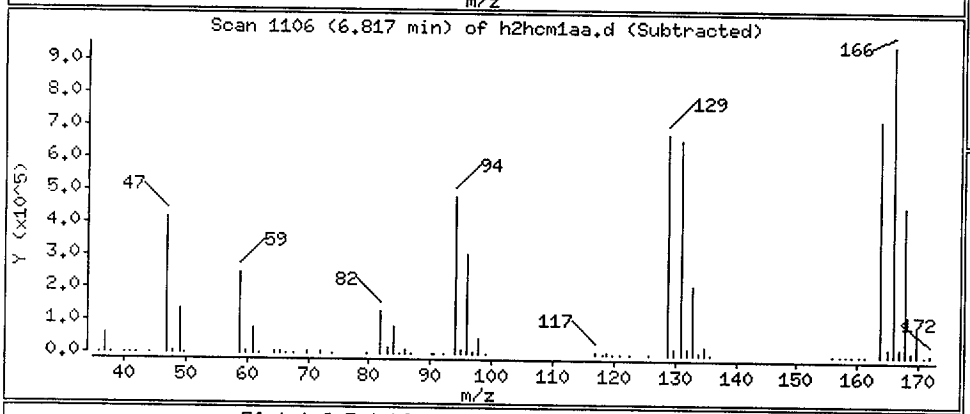
Column phase: J+W 624

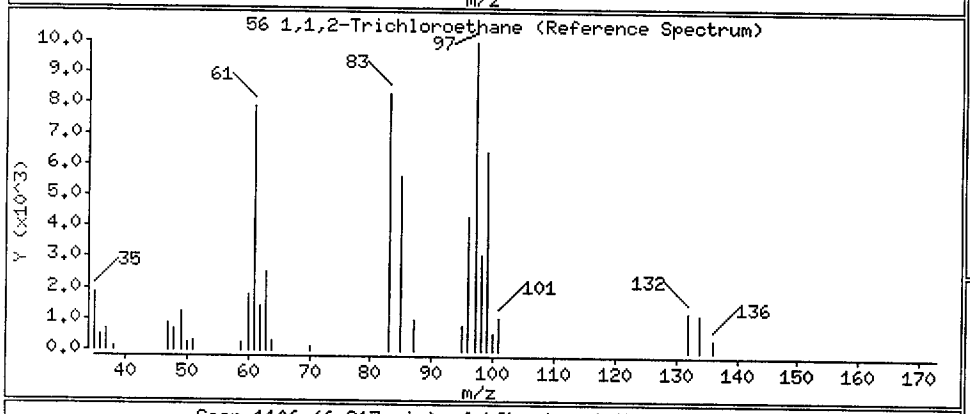
Column diameter: 0.18

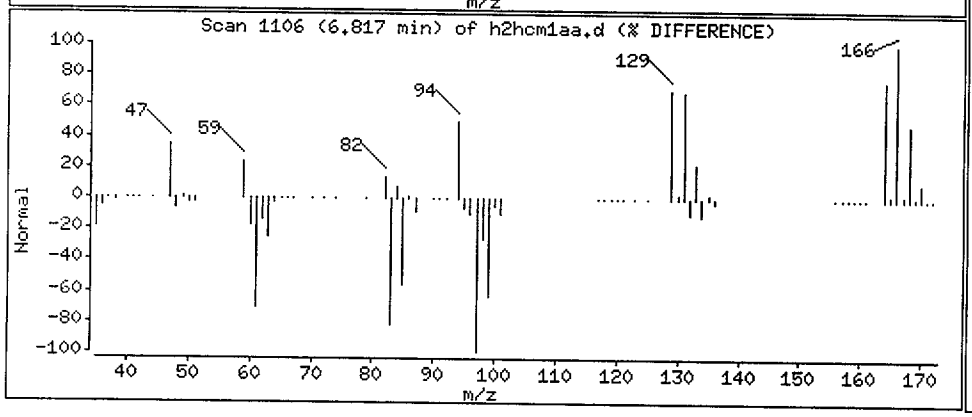
56 1,1,2-Trichloroethane

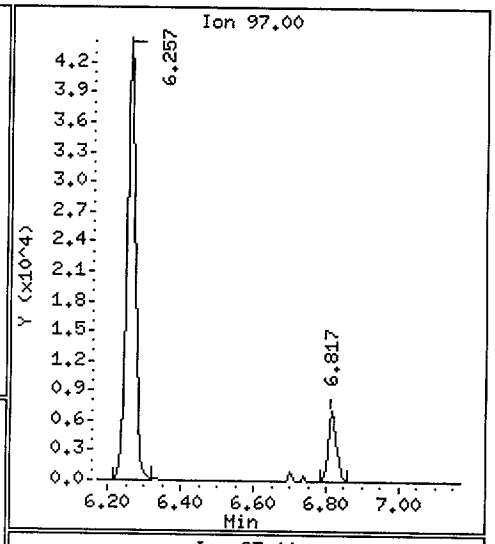
Concentration: 0.027780 ug

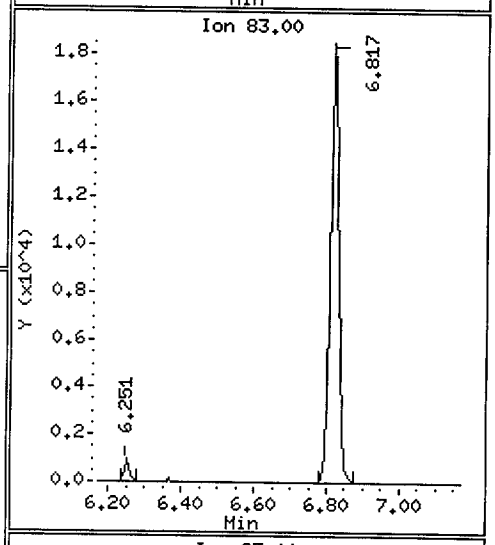


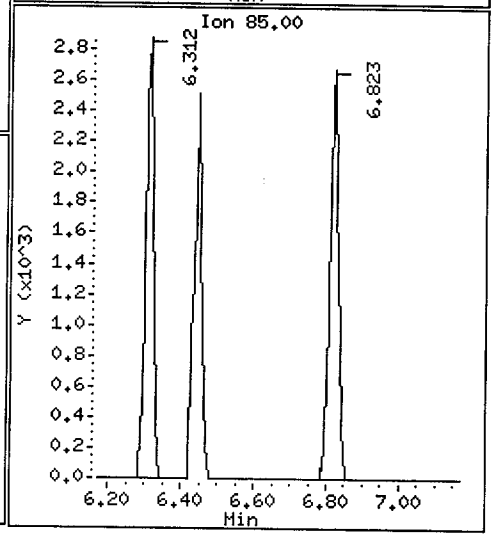












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

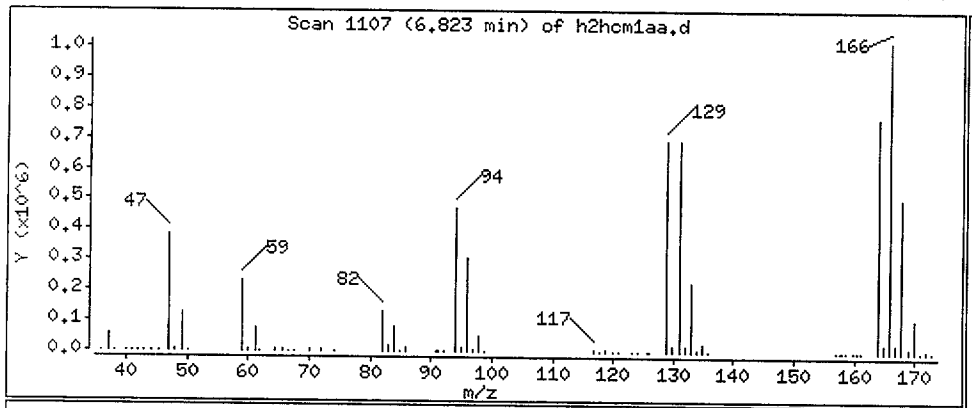
Operator: 22980

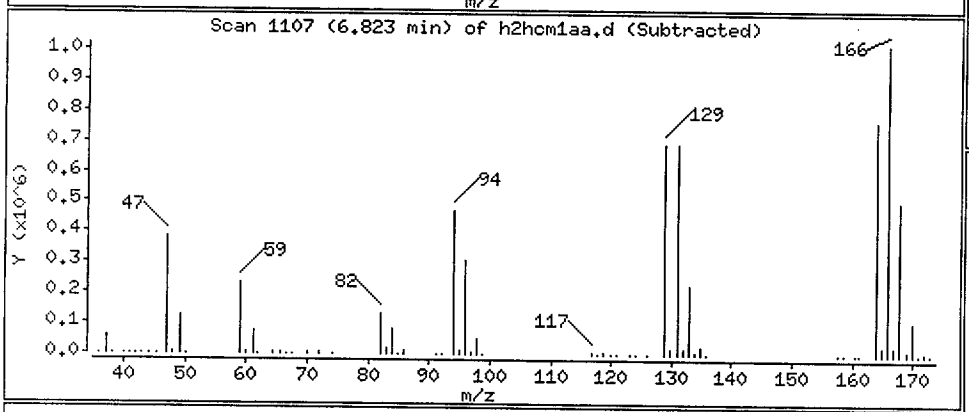
Column phase: J+W 624

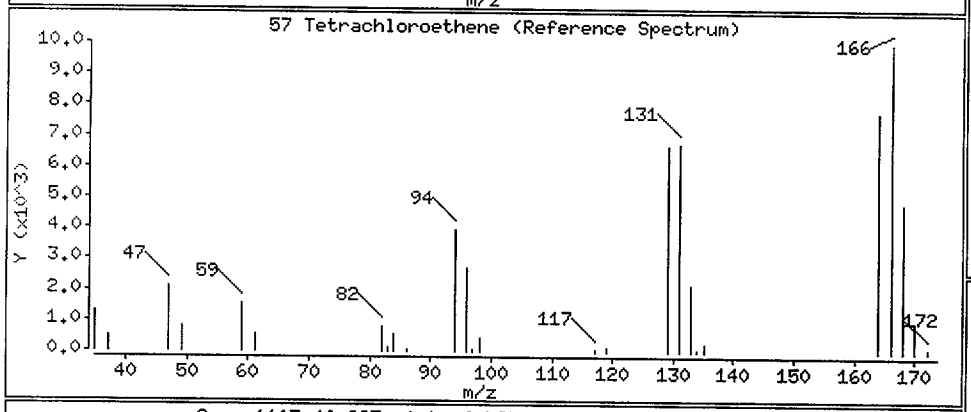
Column diameter: 0.18

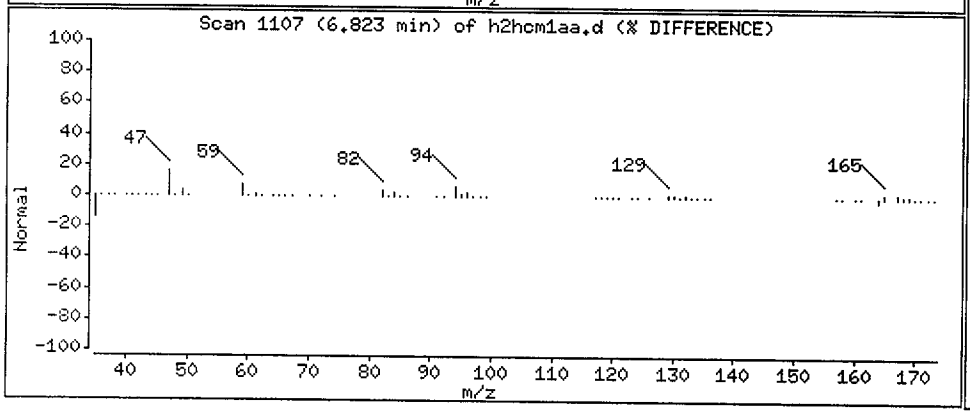
57 Tetrachloroethene

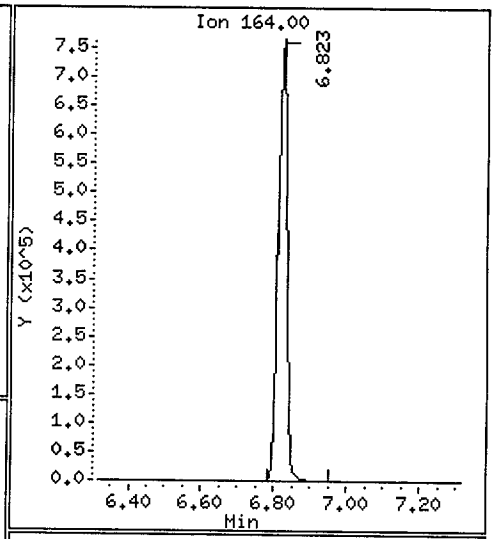
Concentration: 1.1304 ug

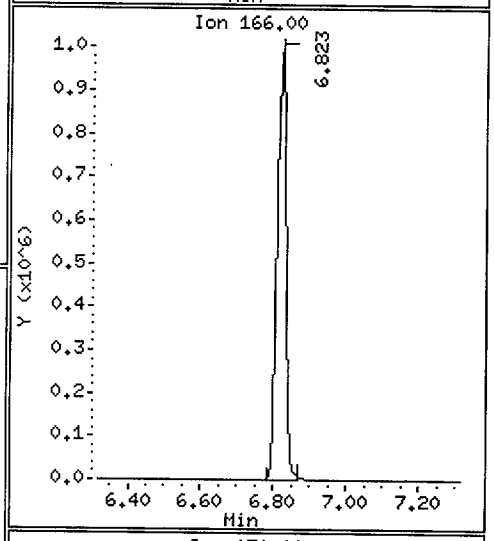


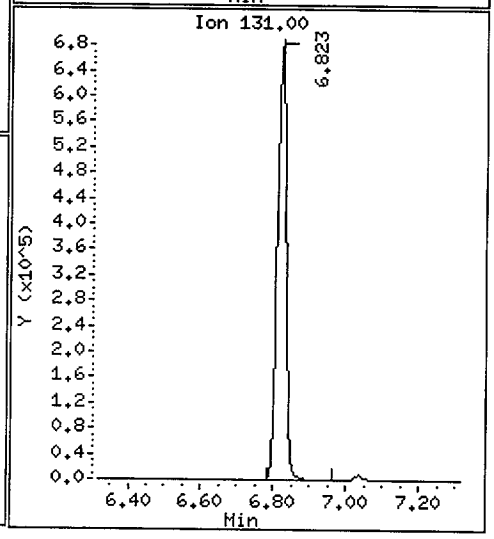












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

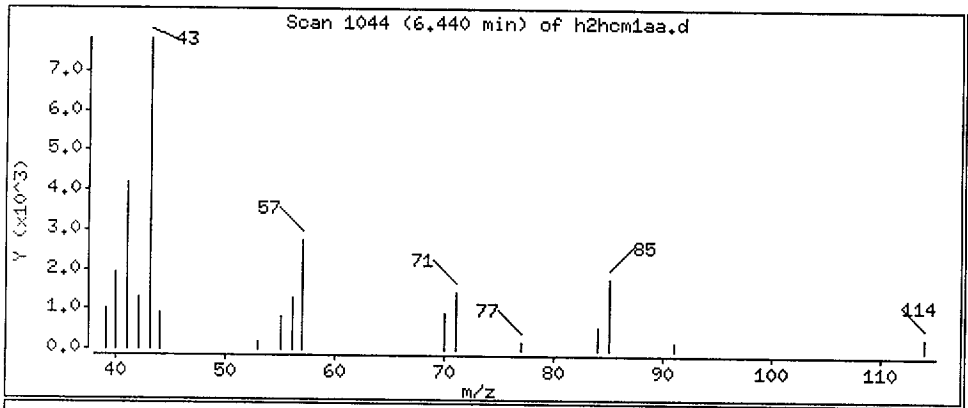
Operator: 22980

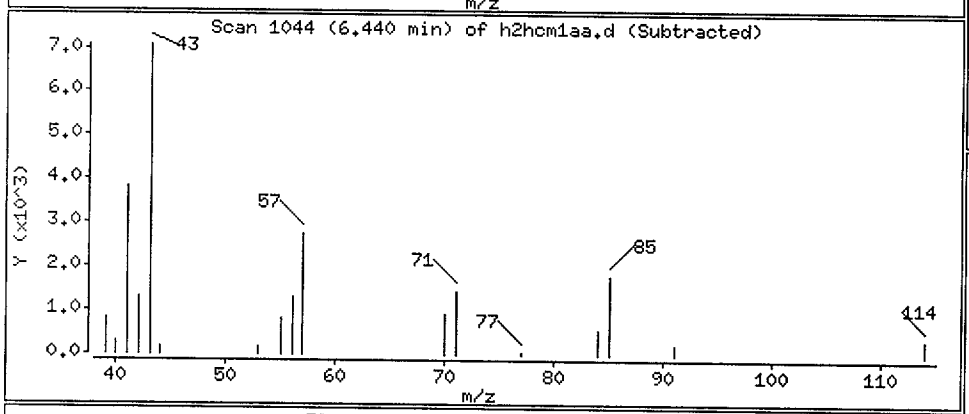
Column phase: J+W 624

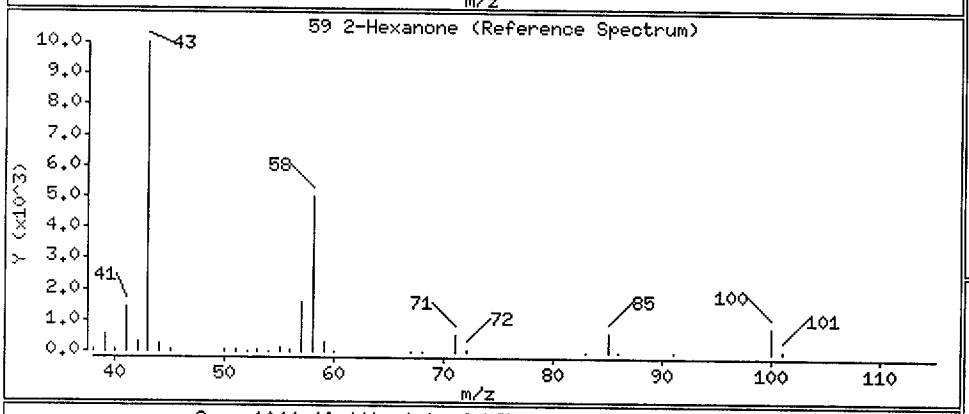
Column diameter: 0.18

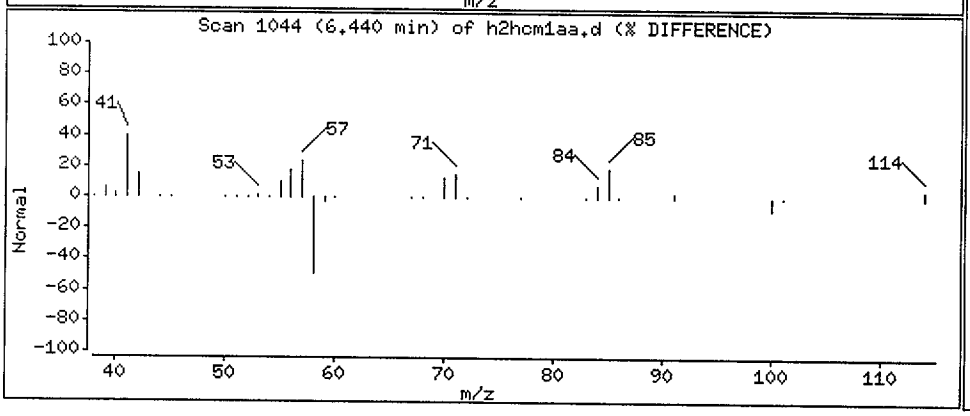
59 2-Hexanone

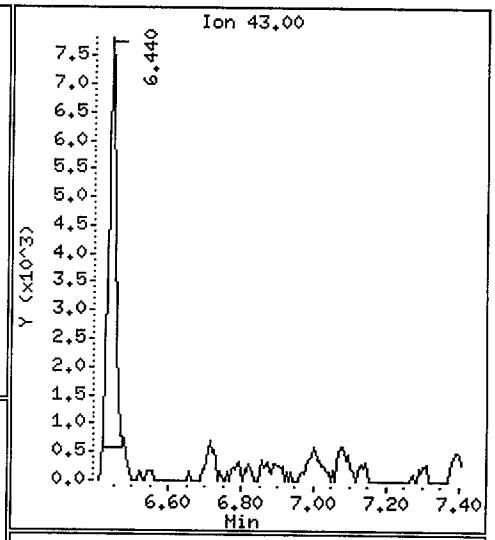
Concentration: 0.056072 ug

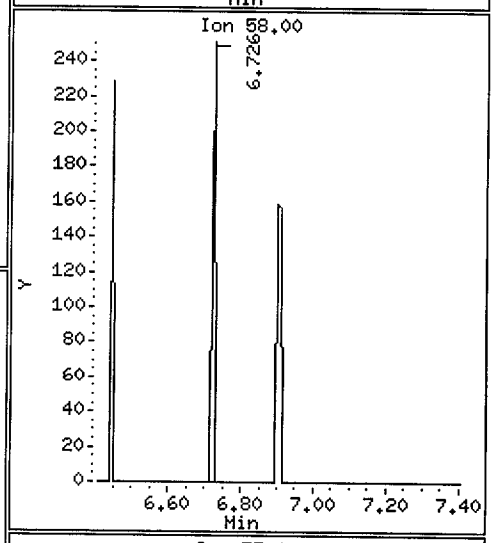


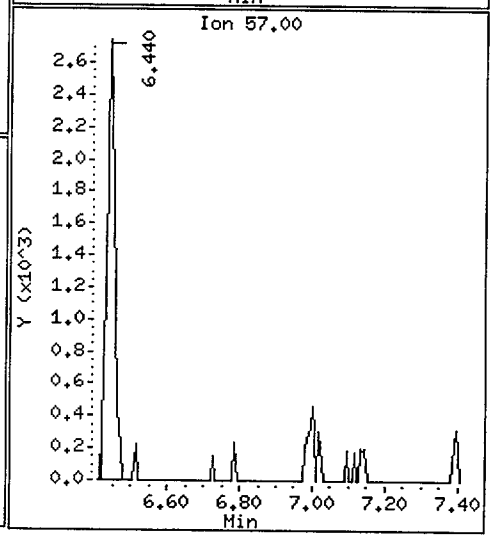












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

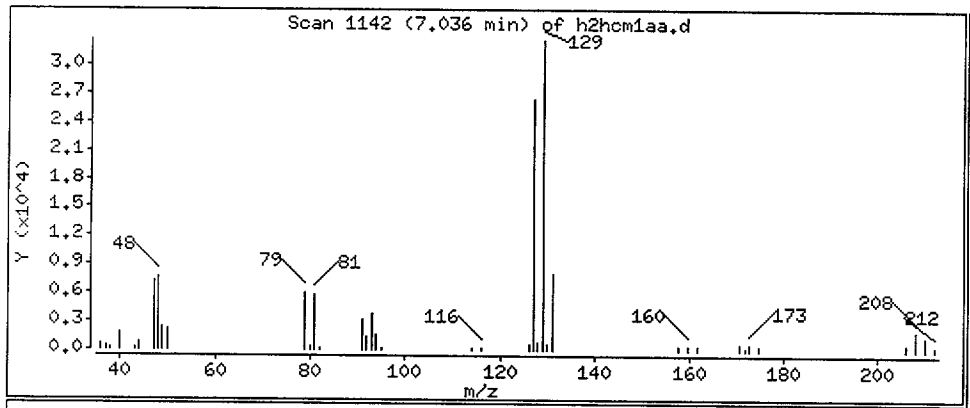
Operator: 22980

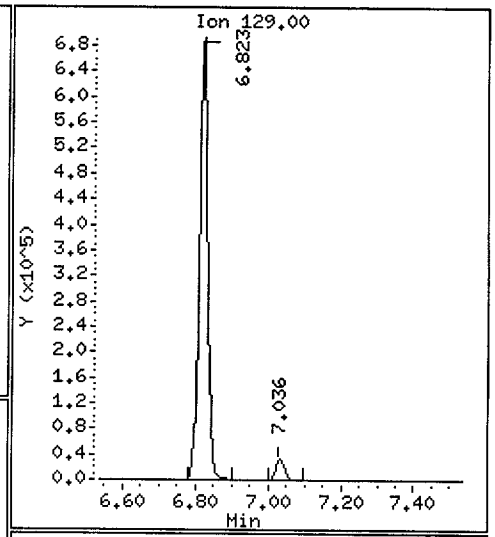
Column phase: J+W 624

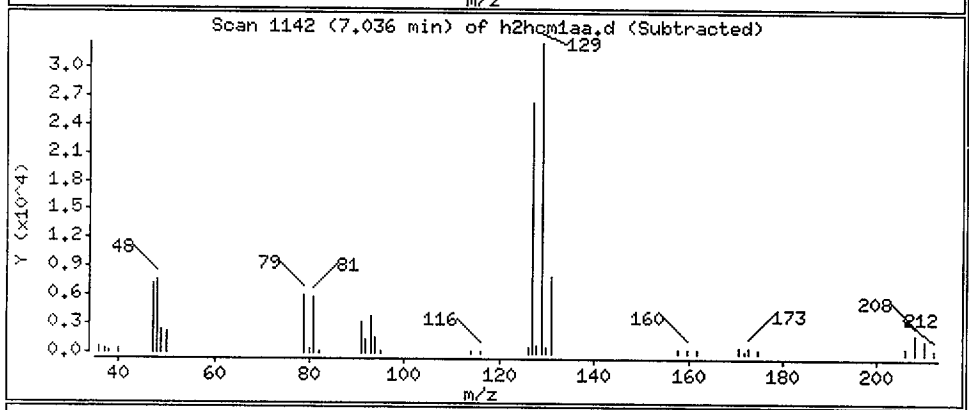
Column diameter: 0.18

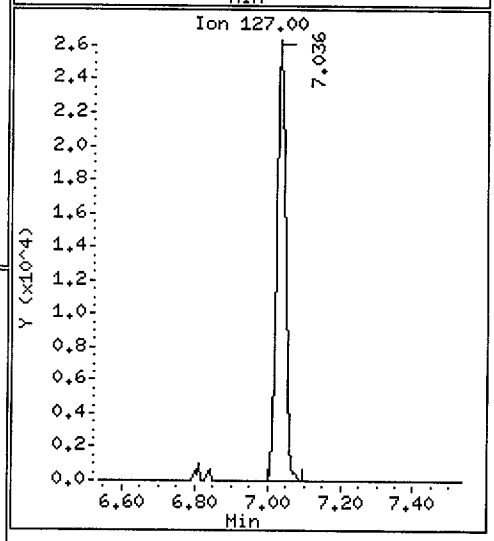
60 Chlorodibromomethane

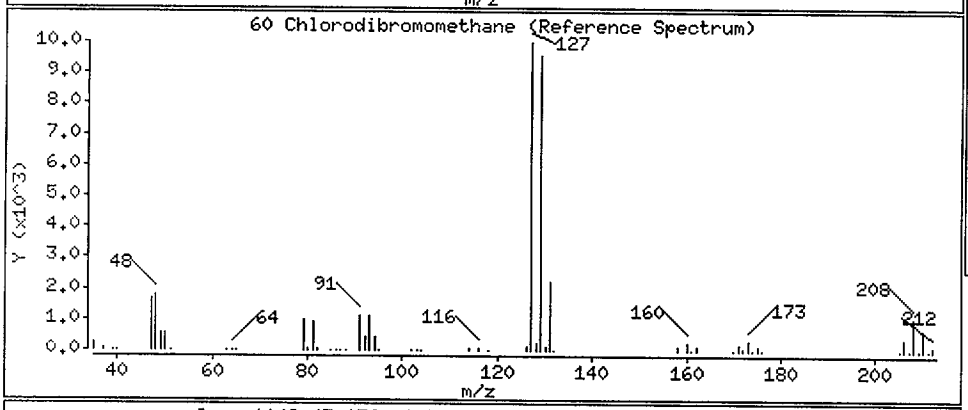
Concentration: 0.10368 ug

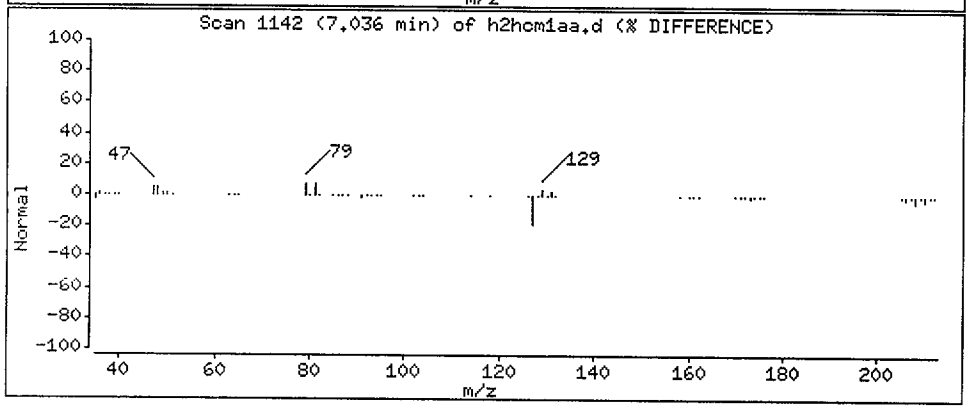












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

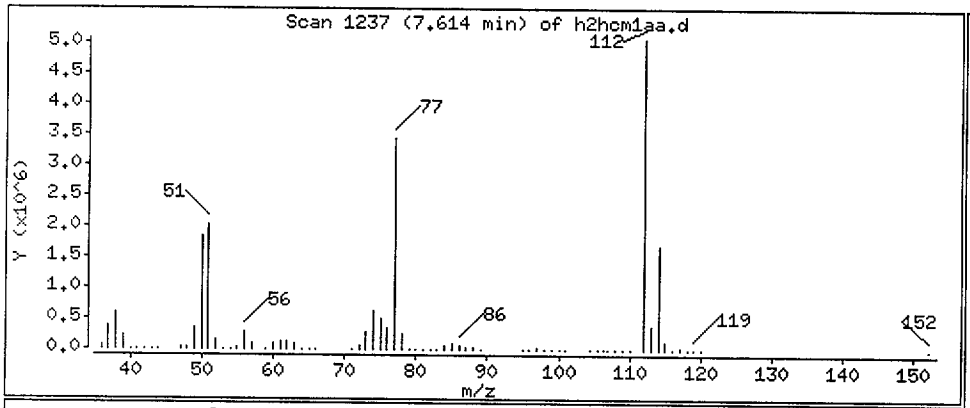
Operator: 22980

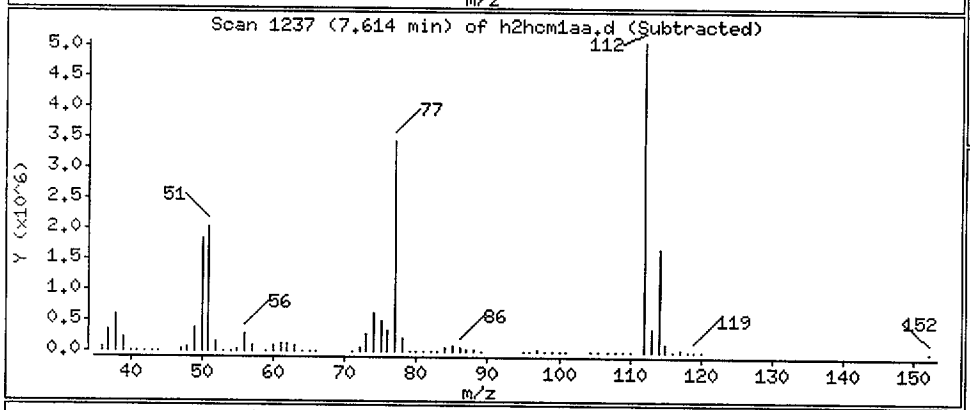
Column phase: J+W 624

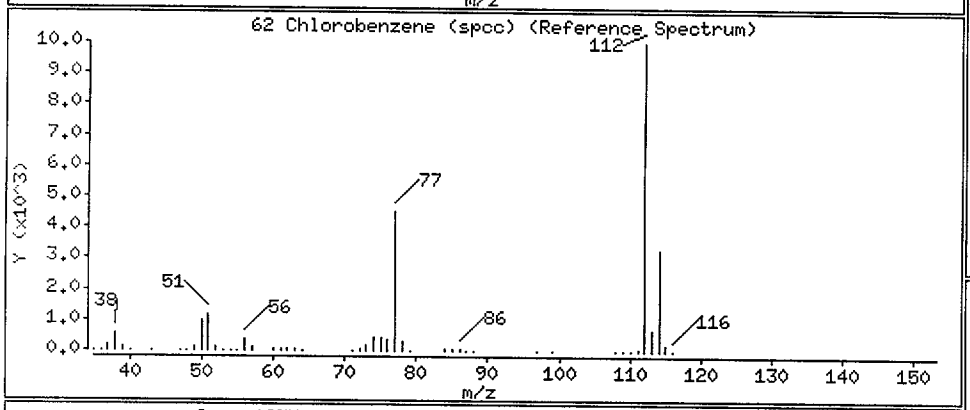
Column diameter: 0.18

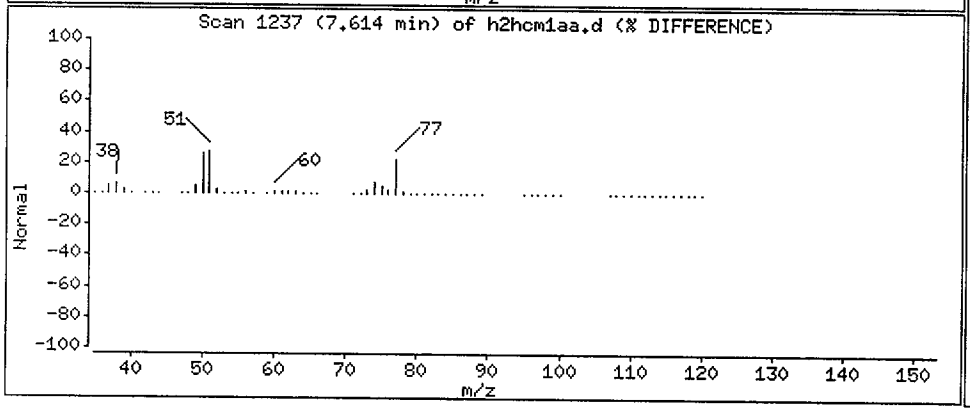
62 Chlorobenzene (spcc)

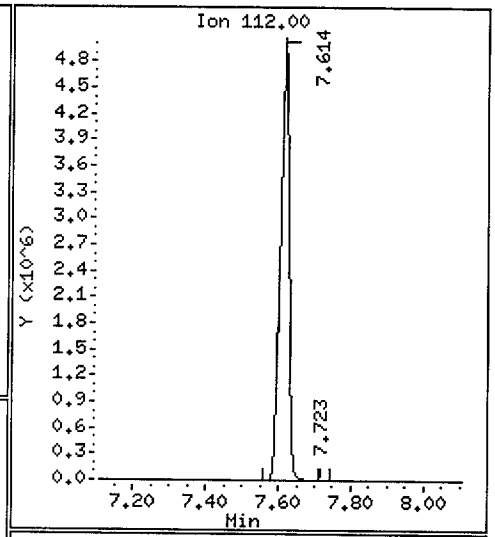
Concentration: 3.1098 ug

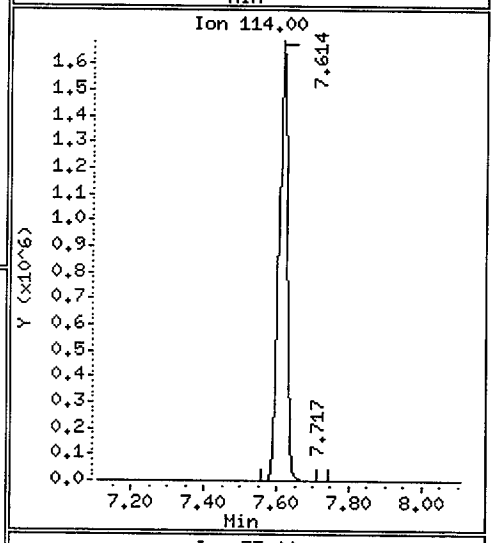


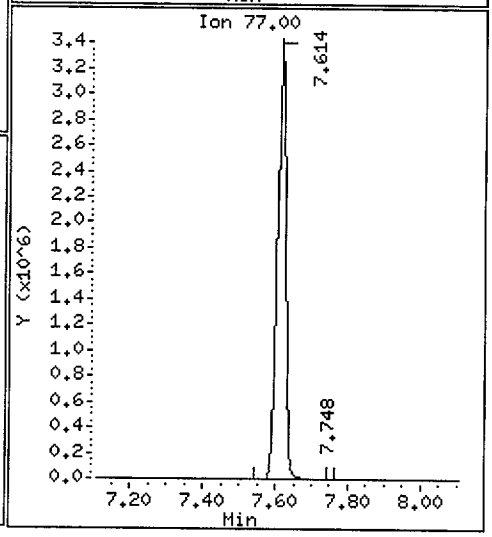












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

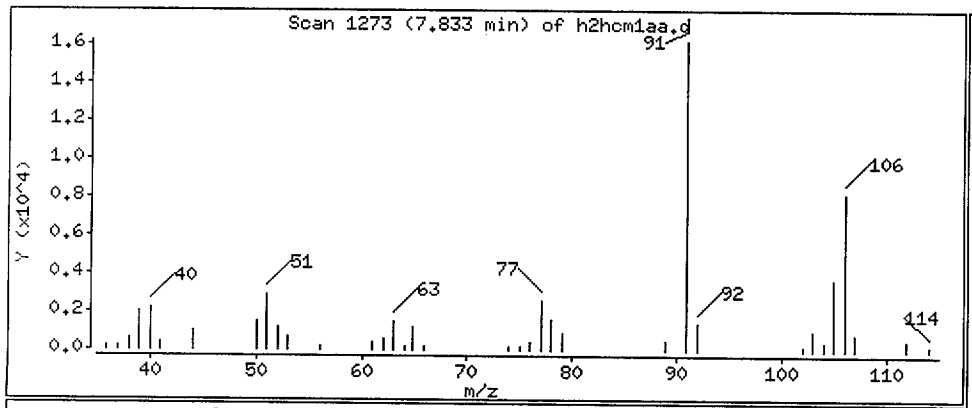
Operator: 22980

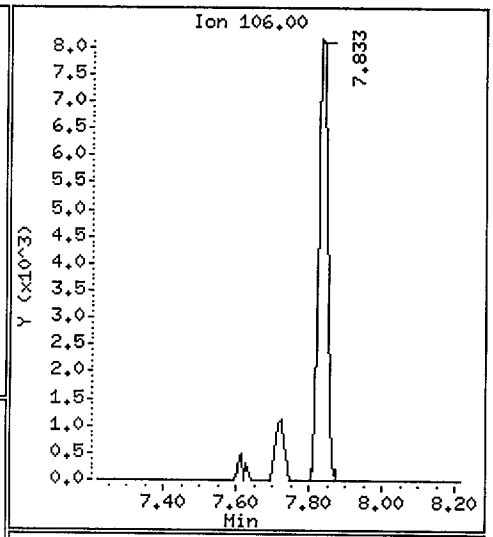
Column phase: J+W 624

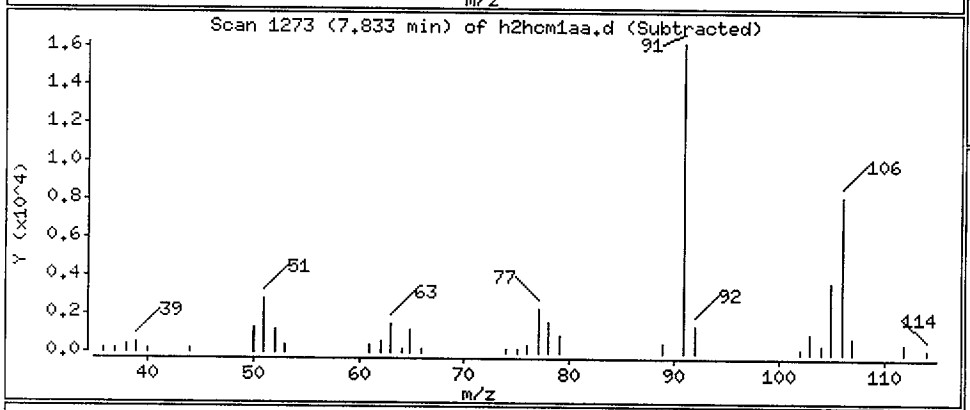
Column diameter: 0.18

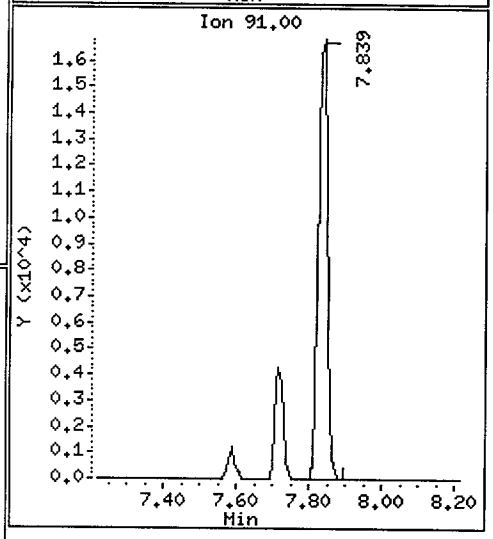
64 Ethylbenzene (ccc)

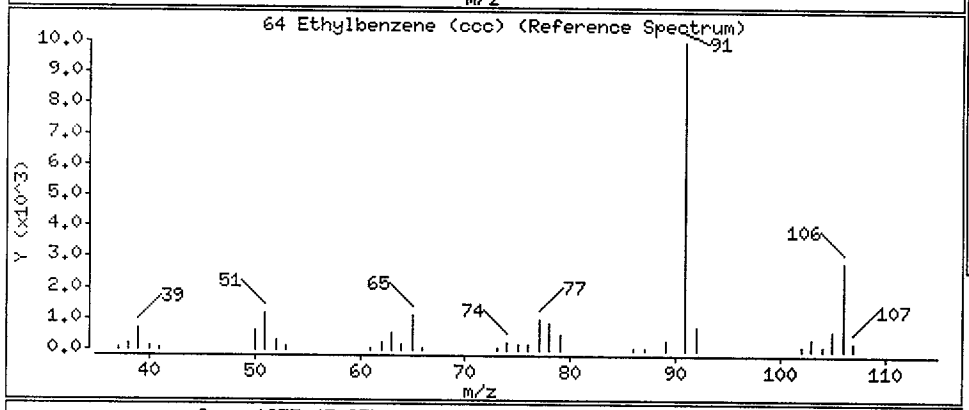
Concentration: 0.0071972 ug

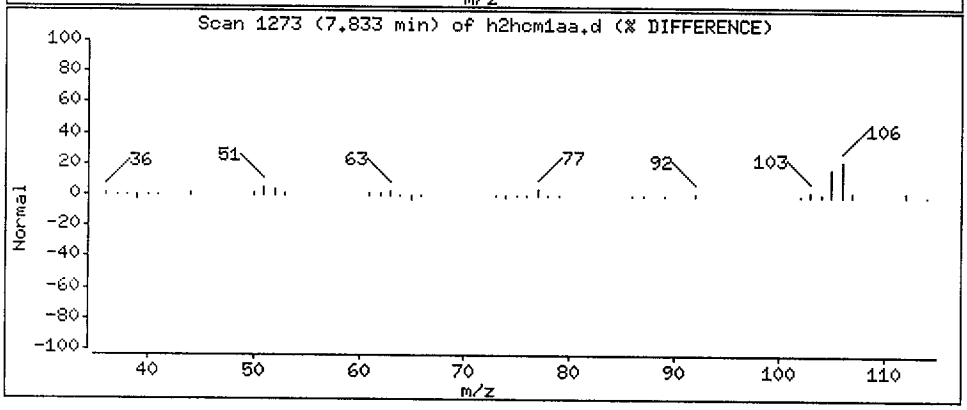












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

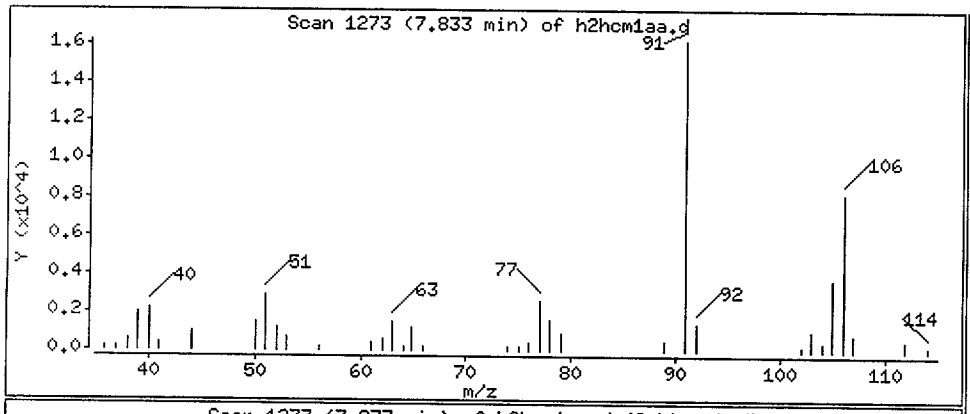
Operator: 22980

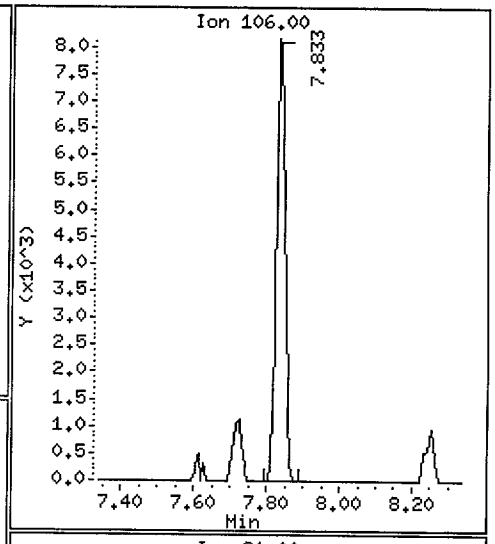
Column phase: J+W 624

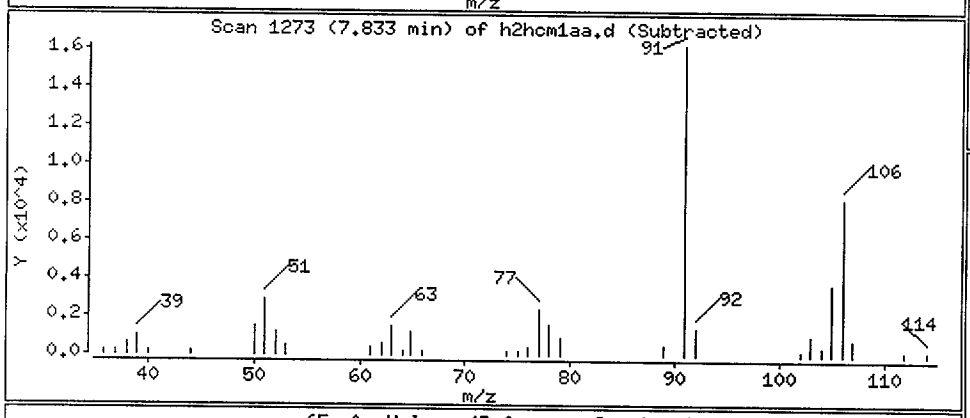
Column diameter: 0.18

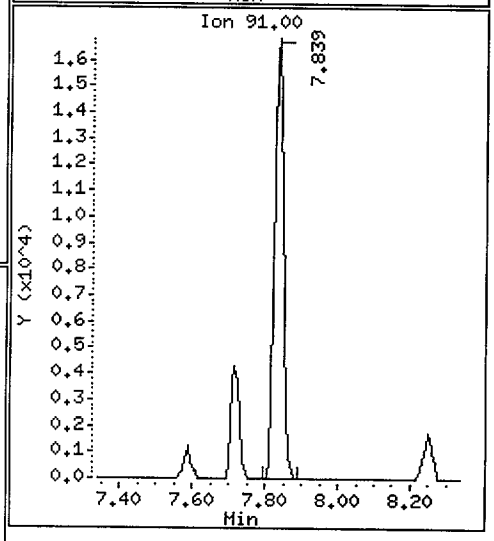
65 m&p-Xylene

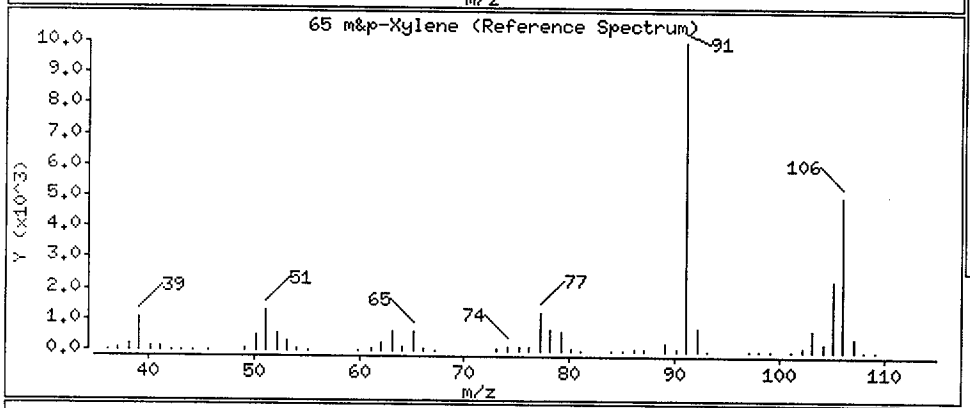
Concentration: 0.0061412 ug

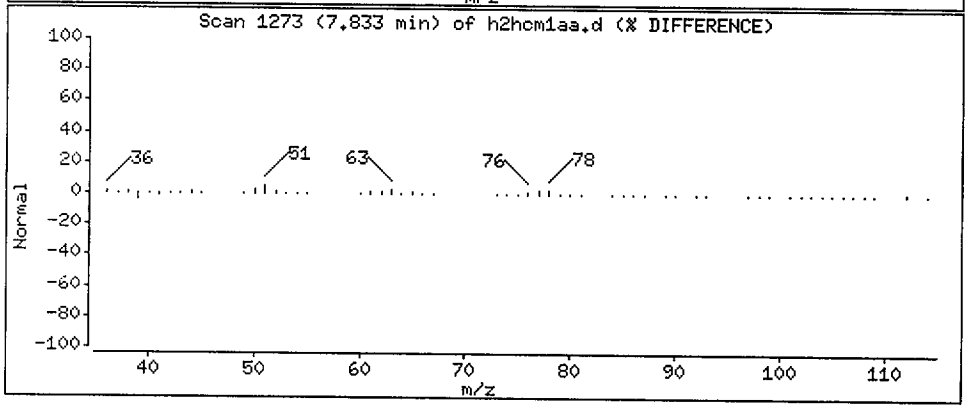












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

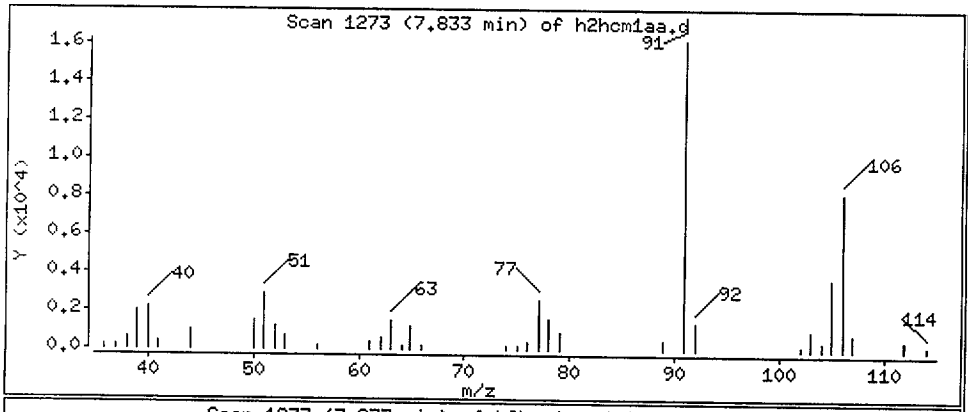
Operator: 22980

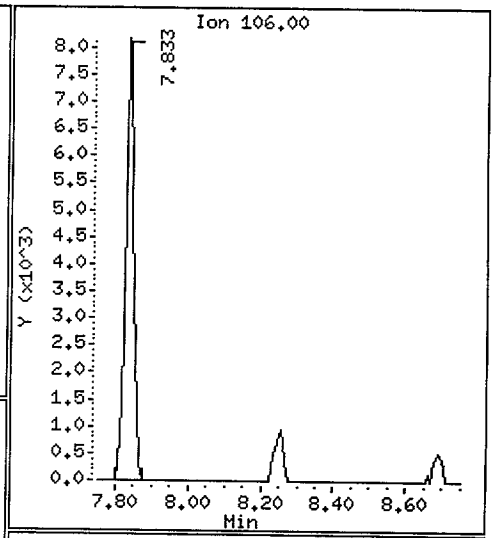
Column phase: J+W 624

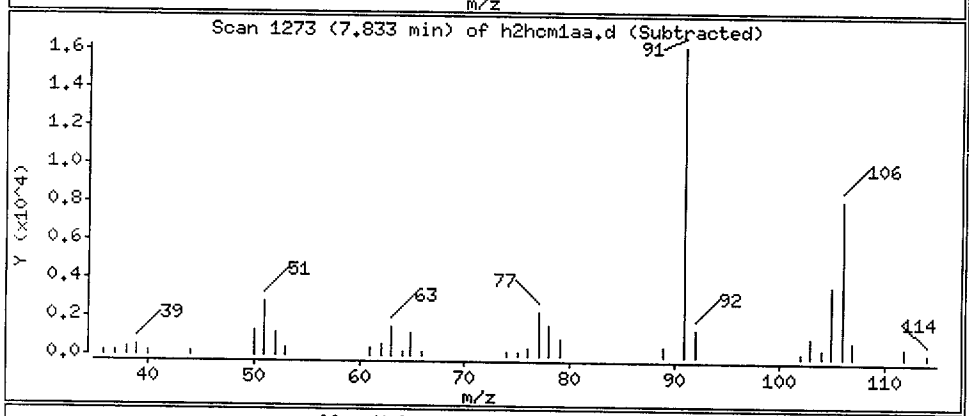
Column diameter: 0.18

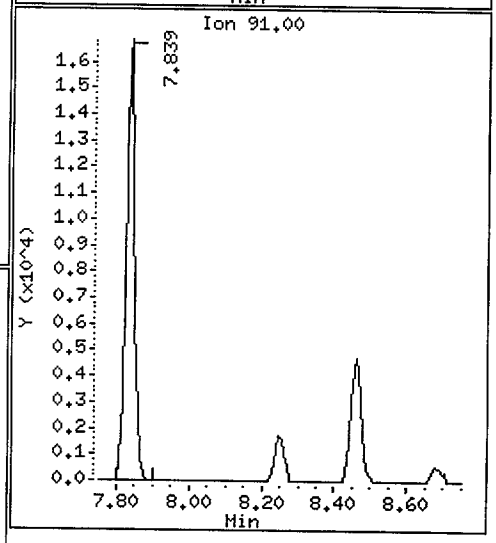
66 o-Xylene

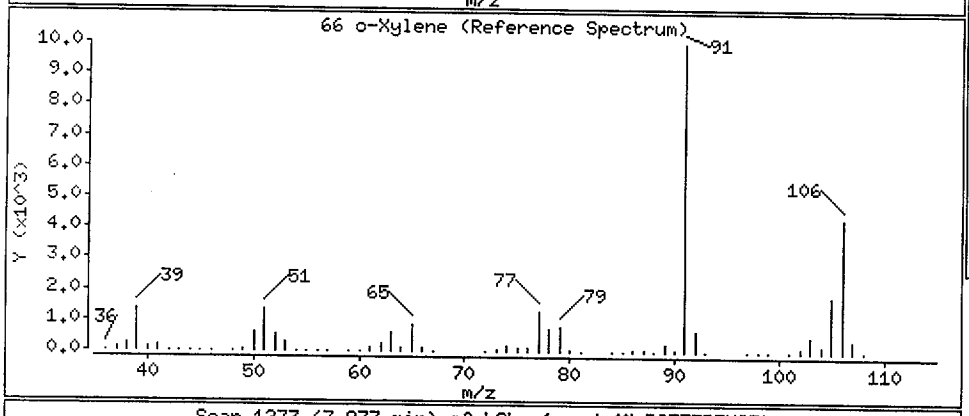
Concentration: 0.0071635 ug

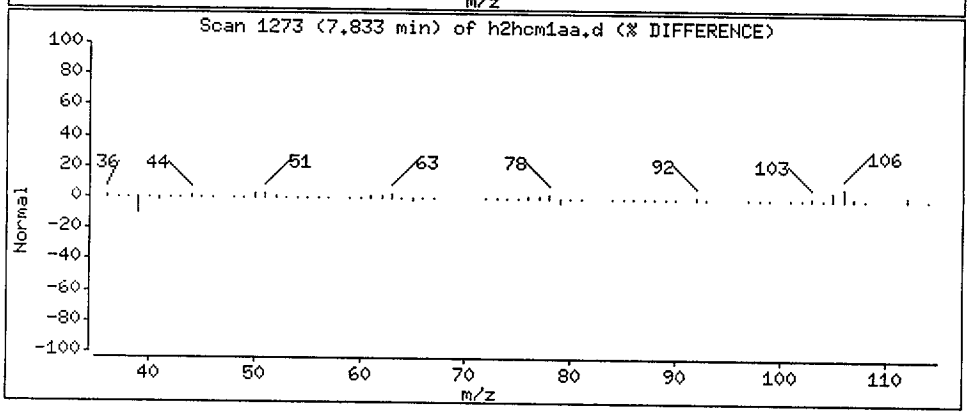












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

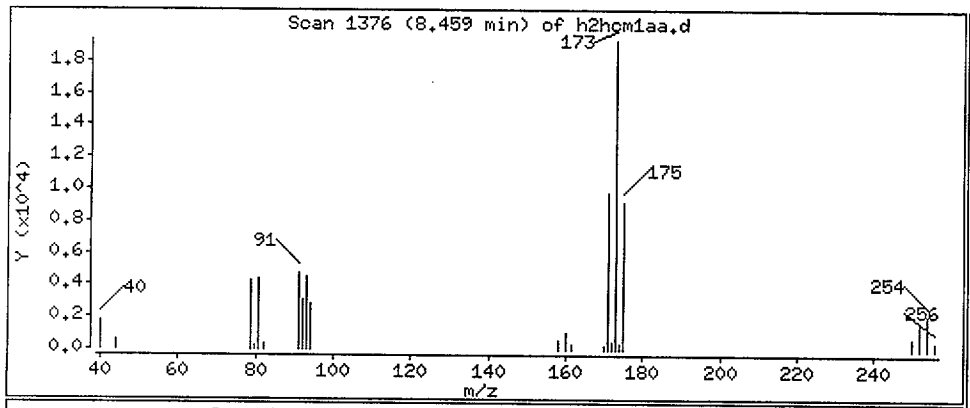
Operator: 22980

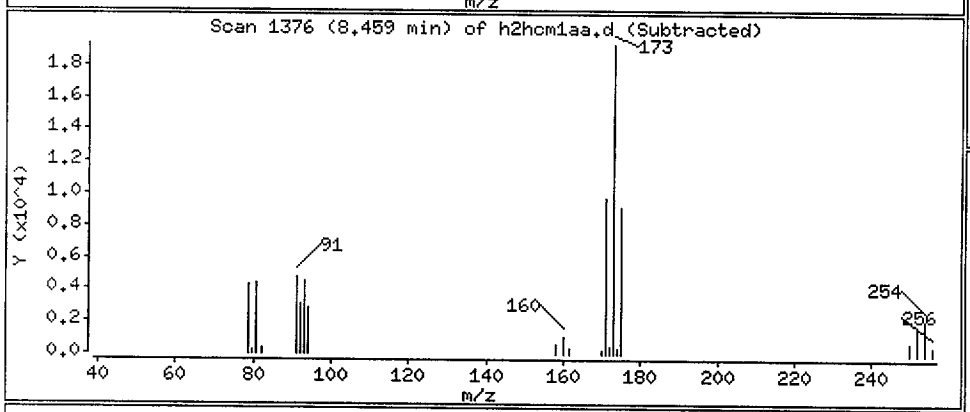
Column phase: J+W 624

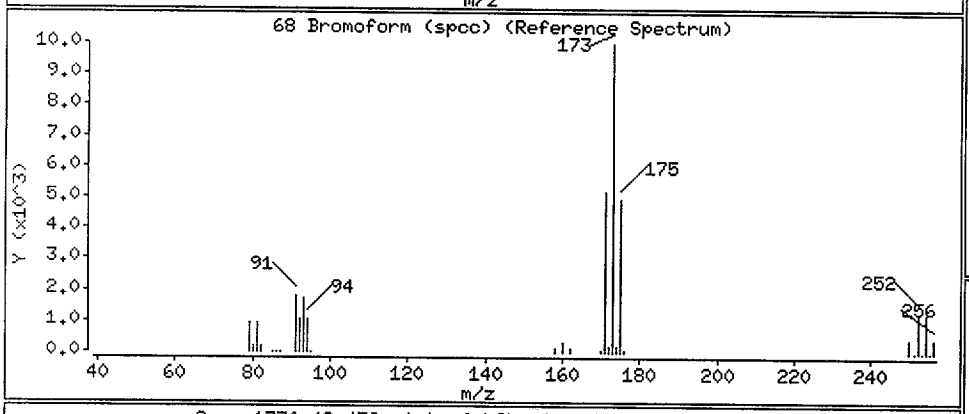
Column diameter: 0.18

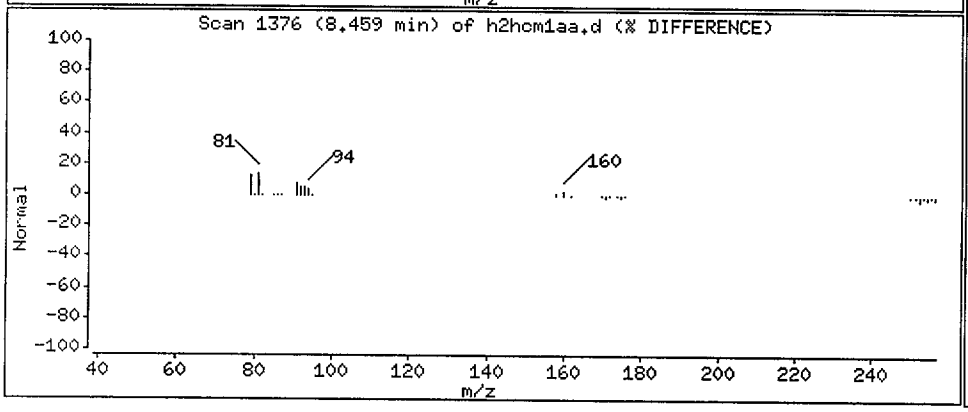
68 Bromoform (spcc)

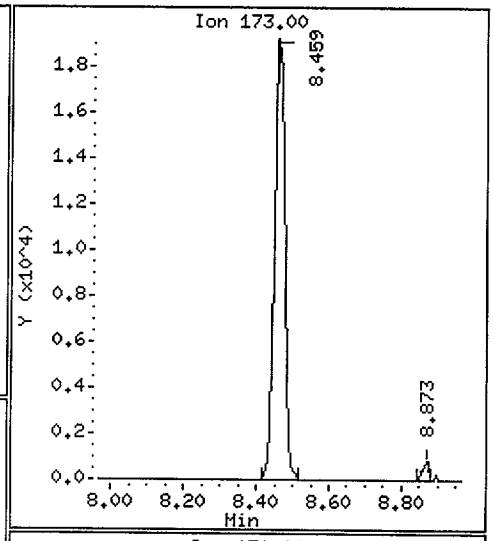
Concentration: 0.14828 ug

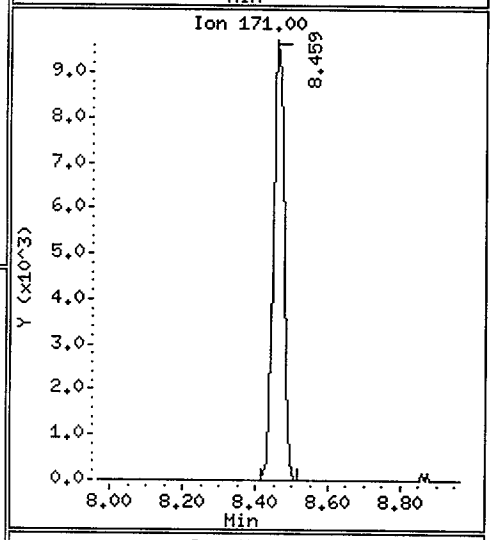


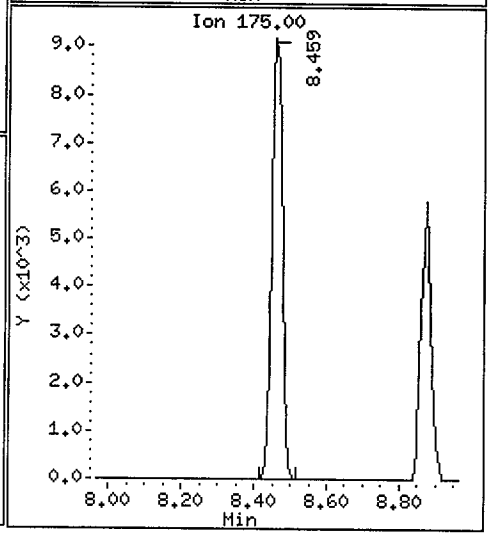












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

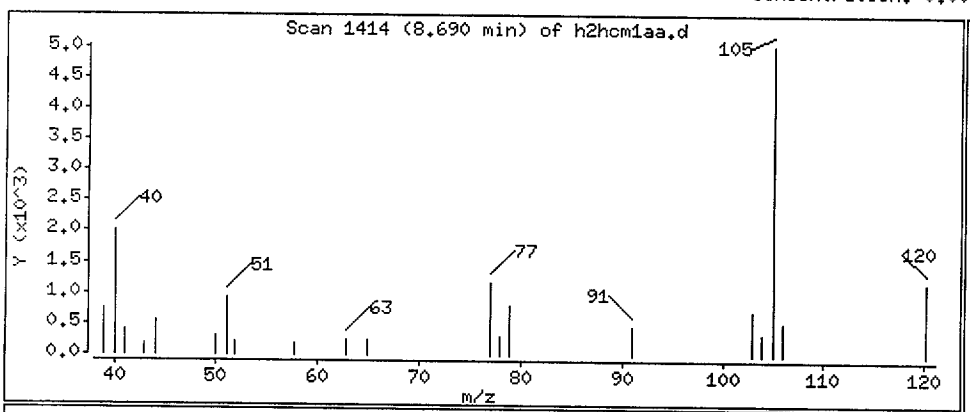
Operator: 22980

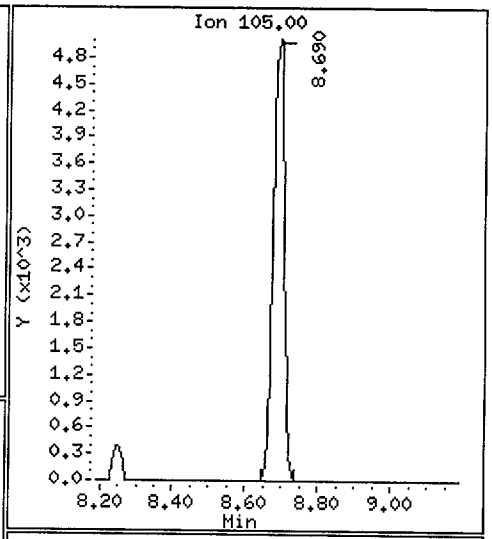
Column phase: J+W 624

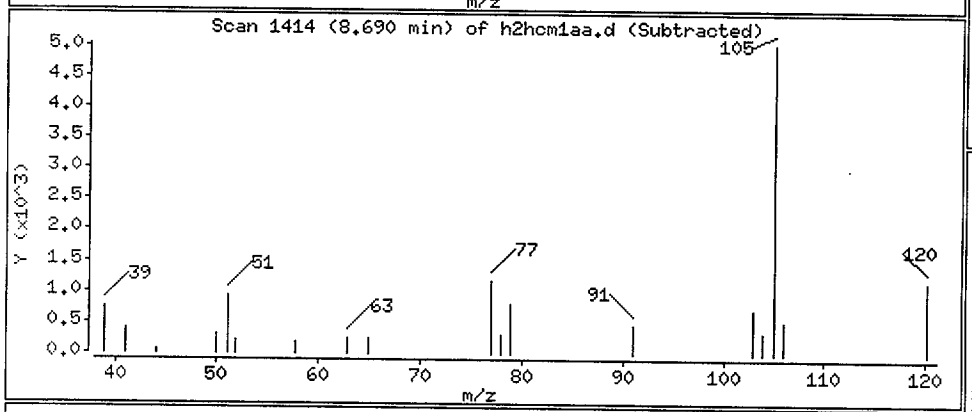
Column diameter: 0.18

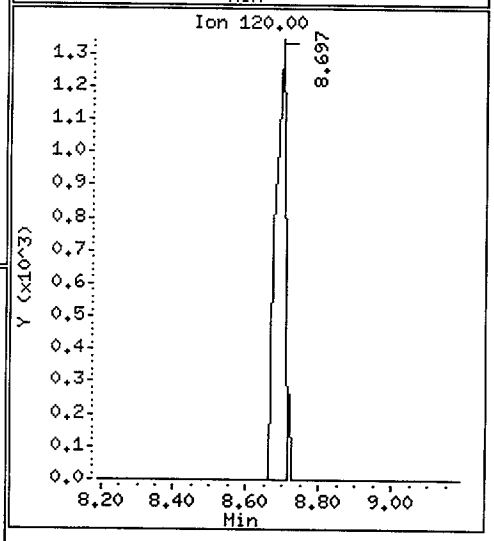
69 Isopropylbenzene

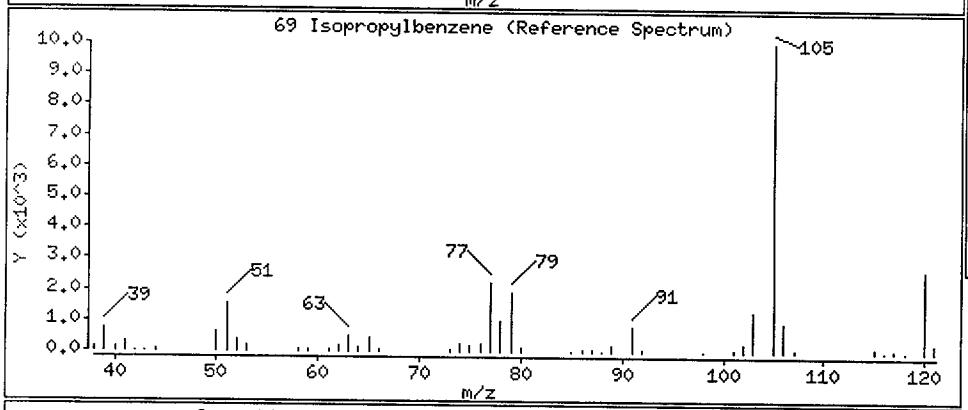
Concentration: 0.0017670 ug

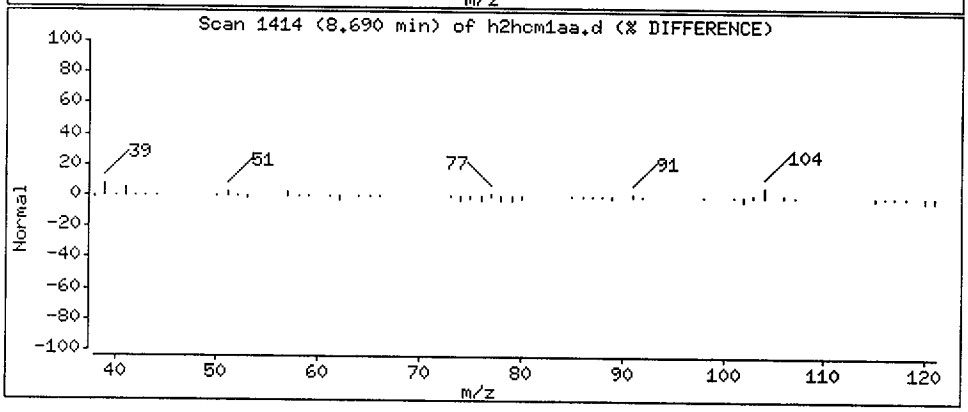












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

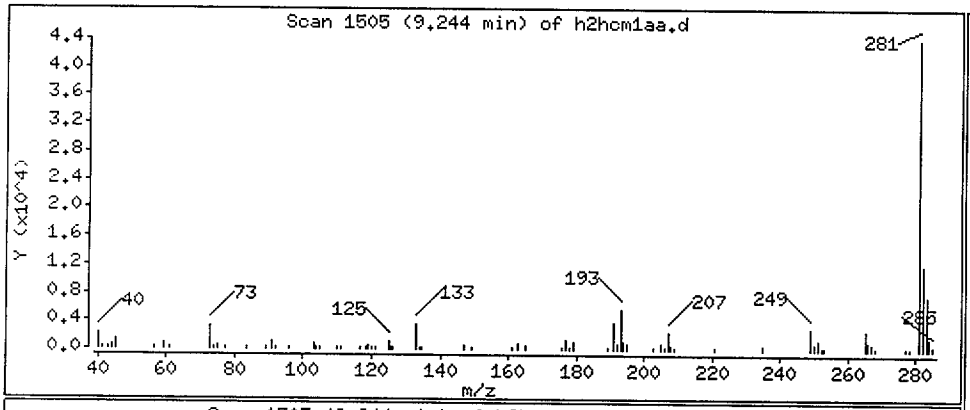
Operator: 22980

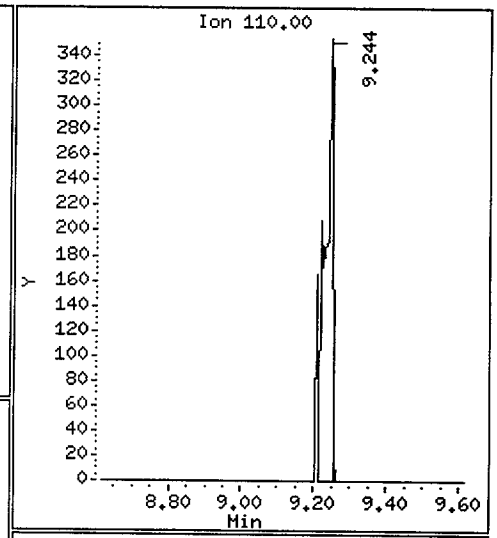
Column phase: J+W 624

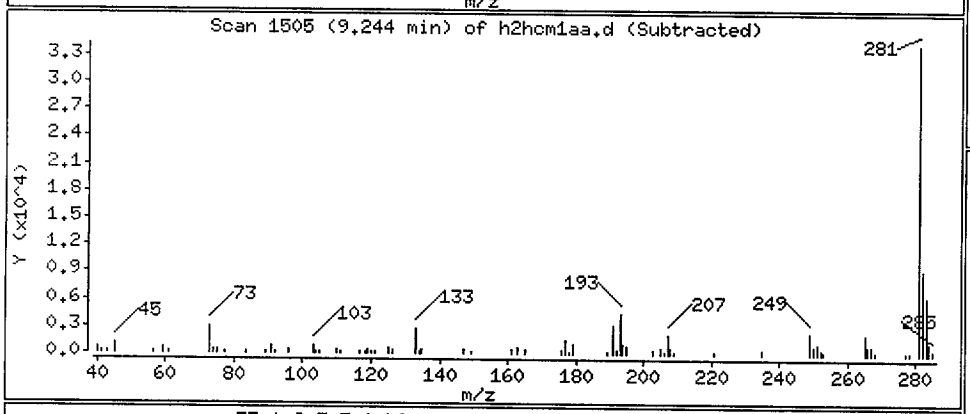
Column diameter: 0.18

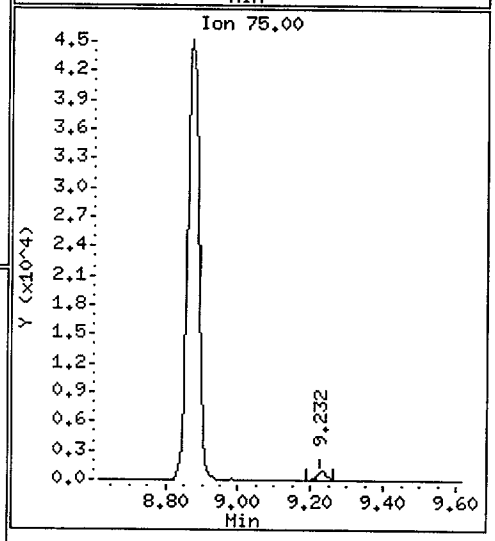
73 1,2,3-Trichloropropane

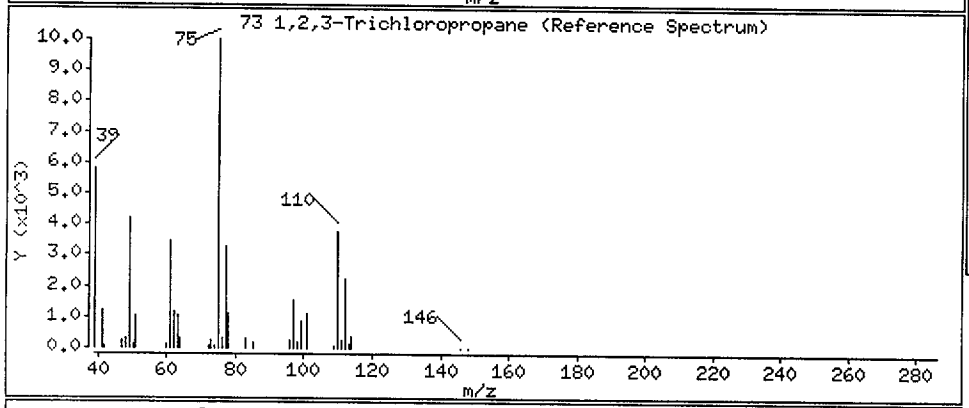
Concentration: 0.0057310 ug

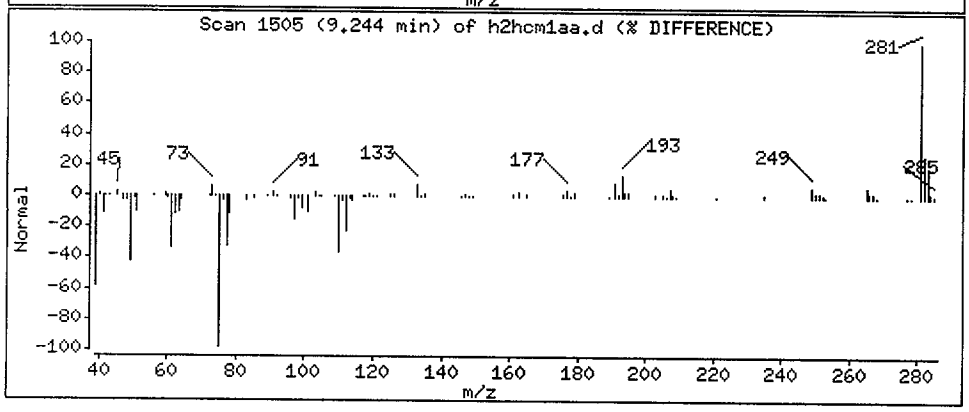












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

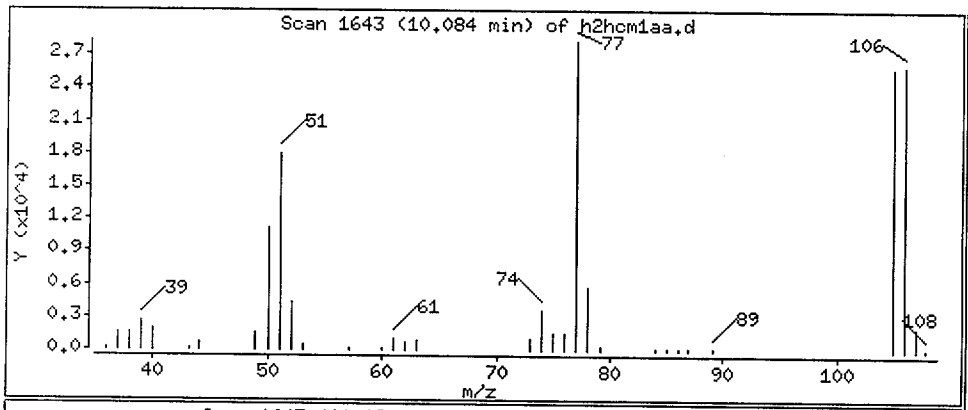
Operator: 22980

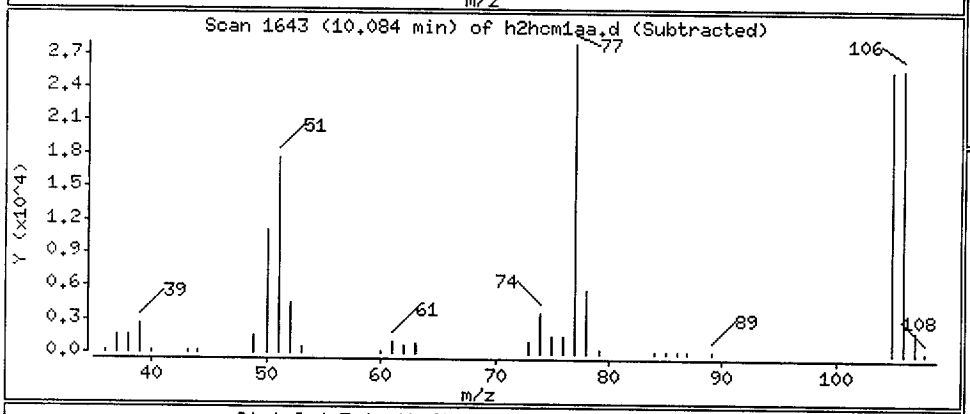
Column phase: J+W 624

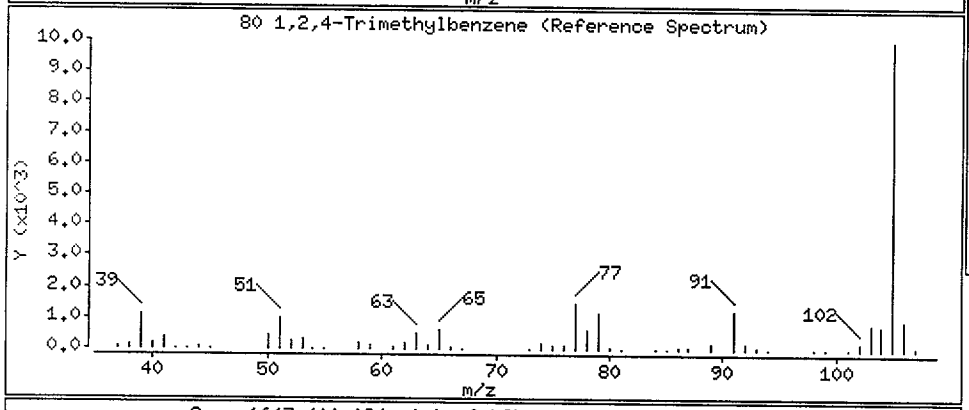
Column diameter: 0.18

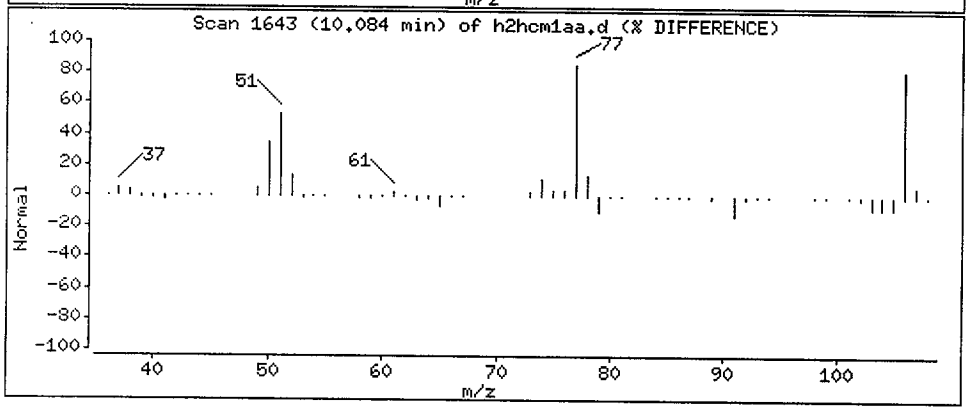
80 1,2,4-Trimethylbenzene

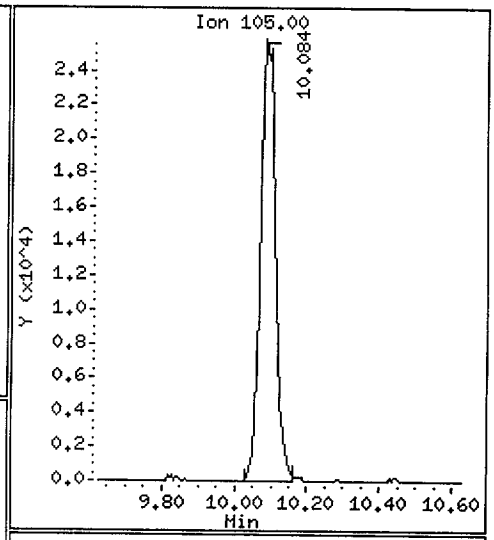
Concentration: 0.023981 ug

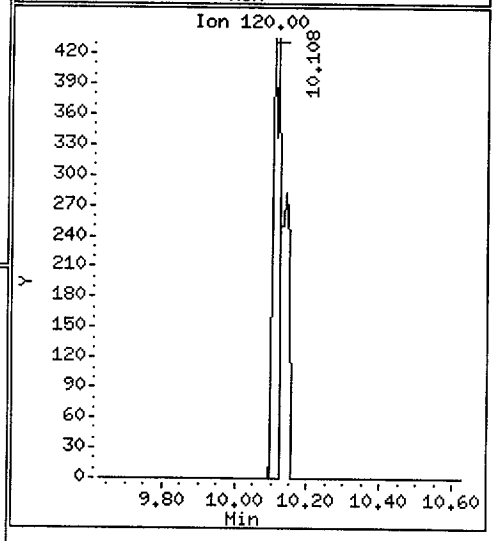












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

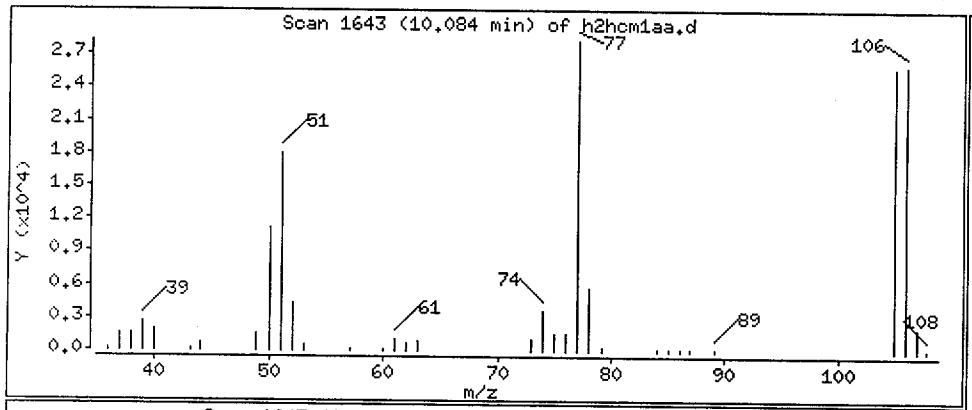
Operator: 22980

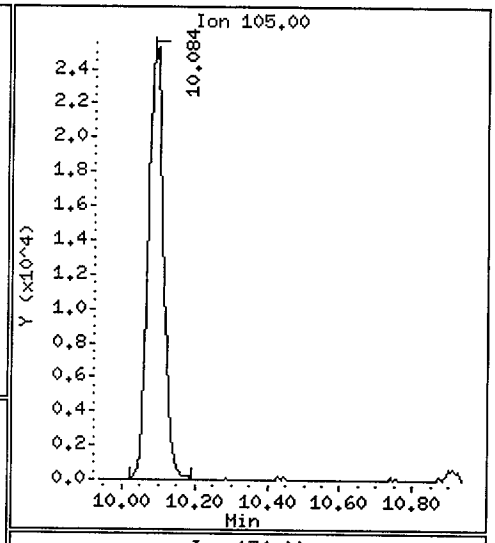
Column phase: J+W 624

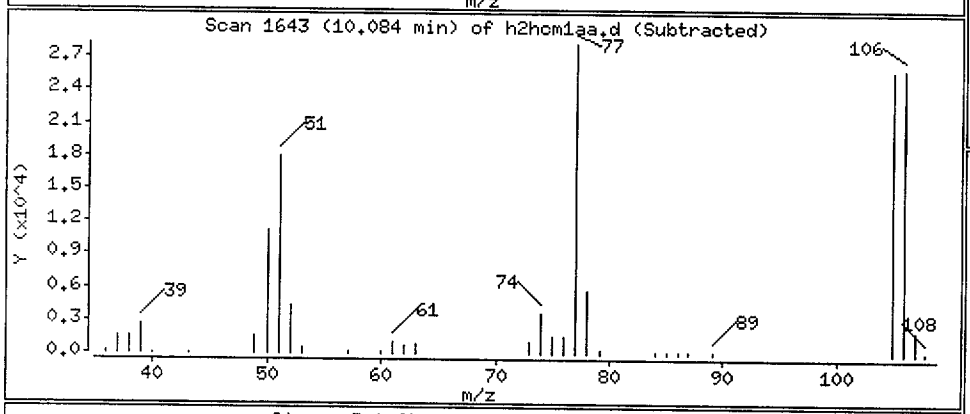
Column diameter: 0.18

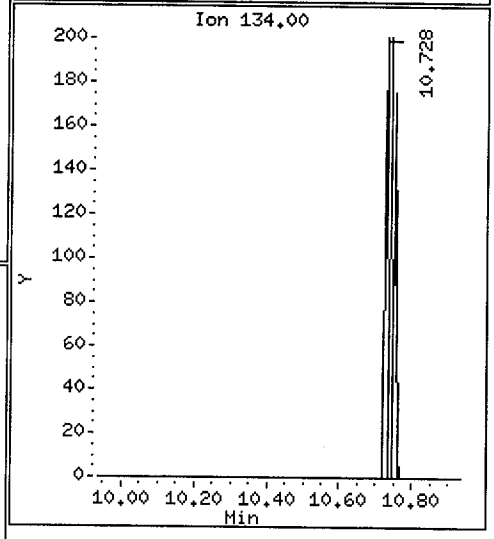
81 sec-Butylbenzene

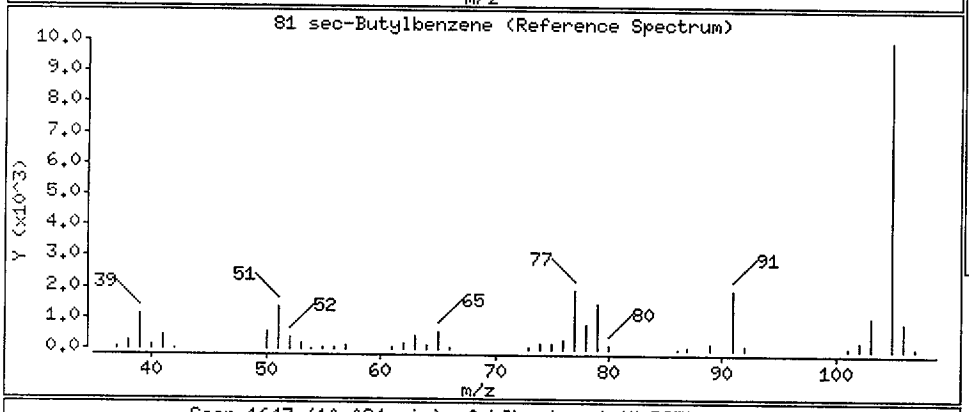
Concentration: 0.013637 ug

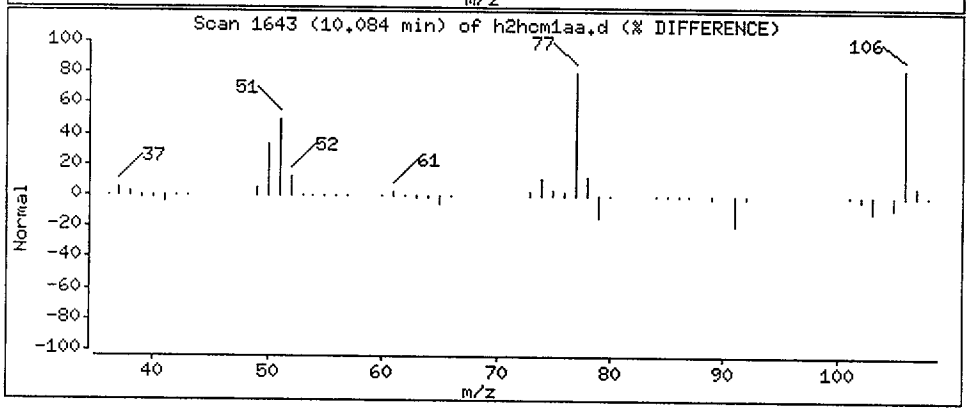












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

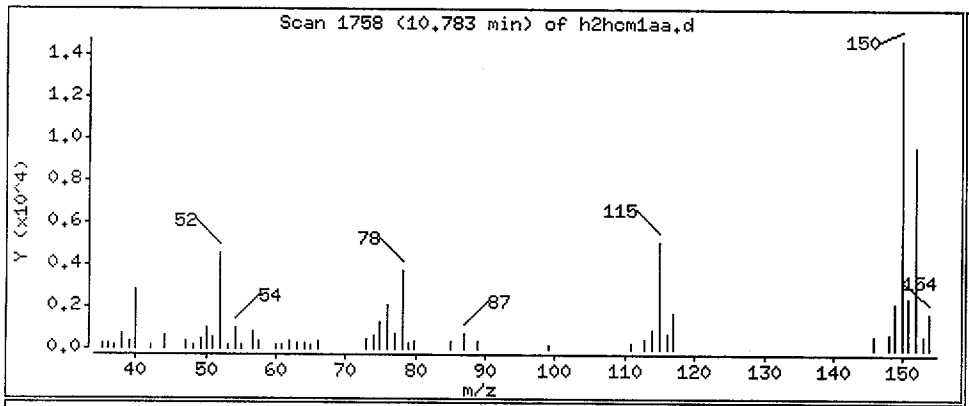
Operator: 22980

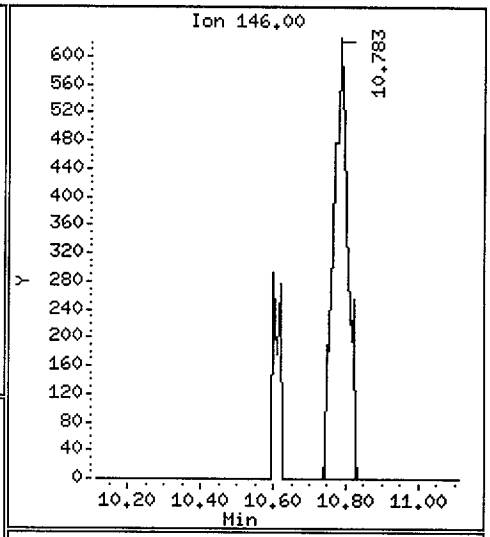
Column phase: J+W 624

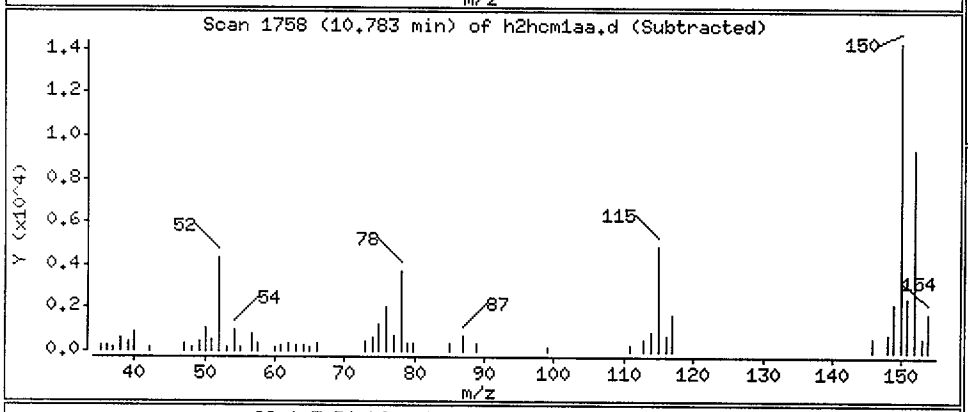
Column diameter: 0.18

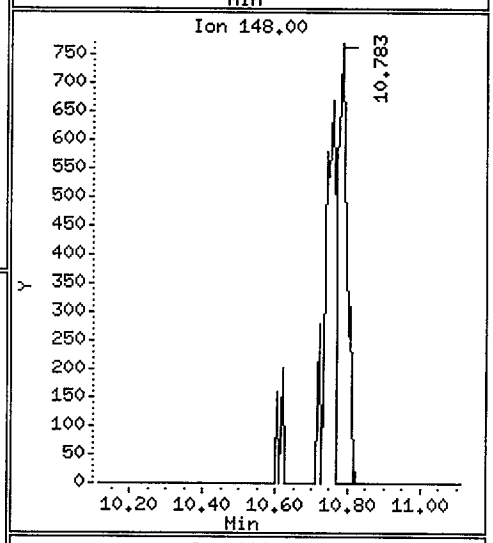
82 1,3-Dichlorobenzene

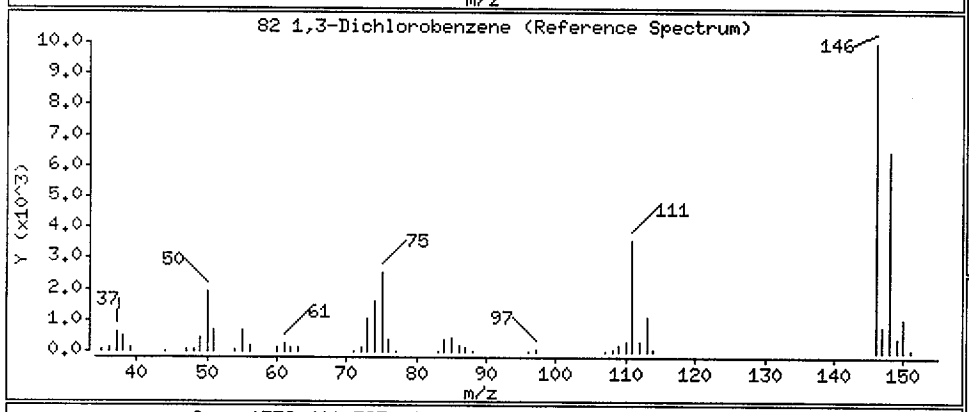
Concentration: 0.0010567 ug

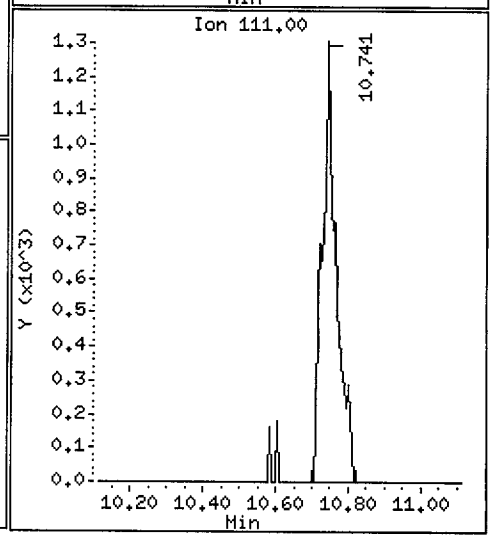


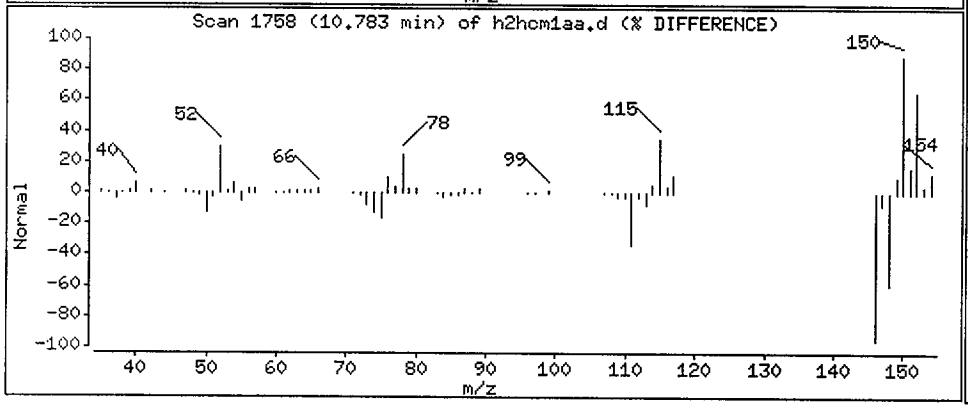












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

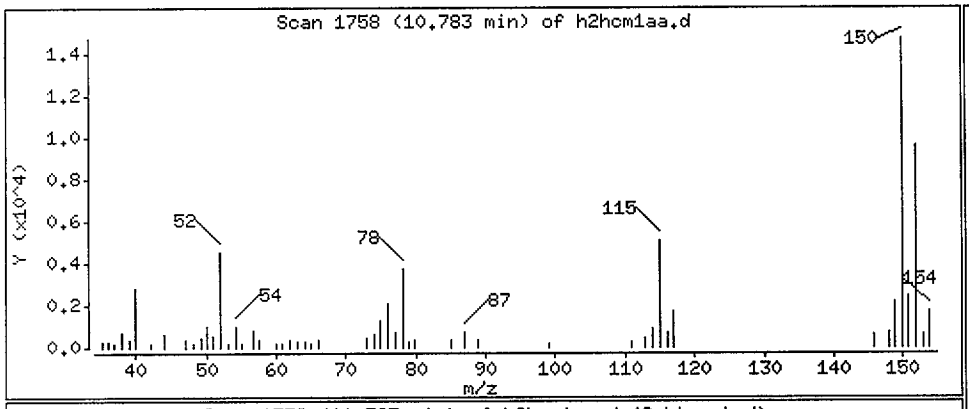
Operator: 22980

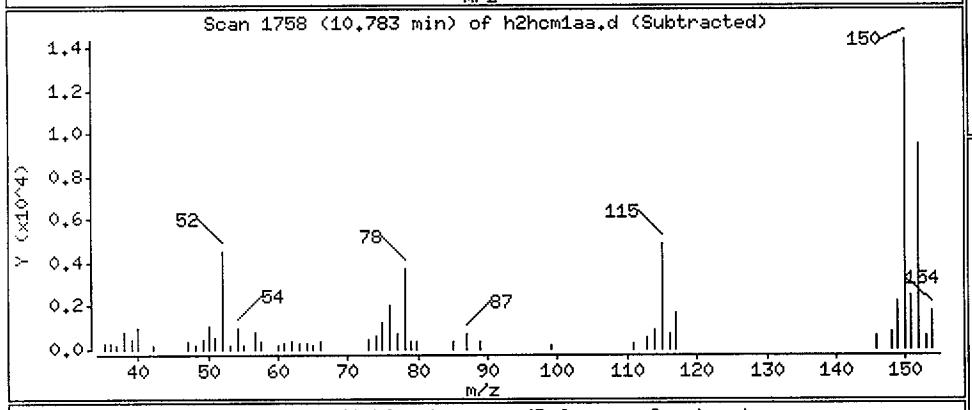
Column phase: J+W 624

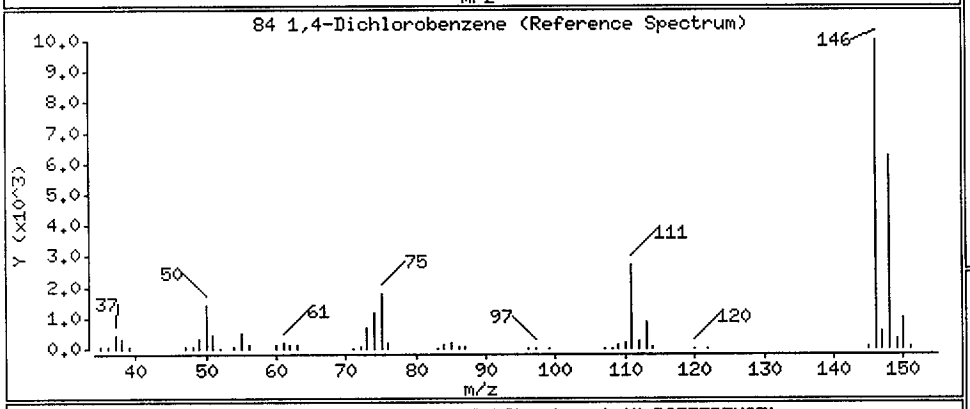
Column diameter: 0.18

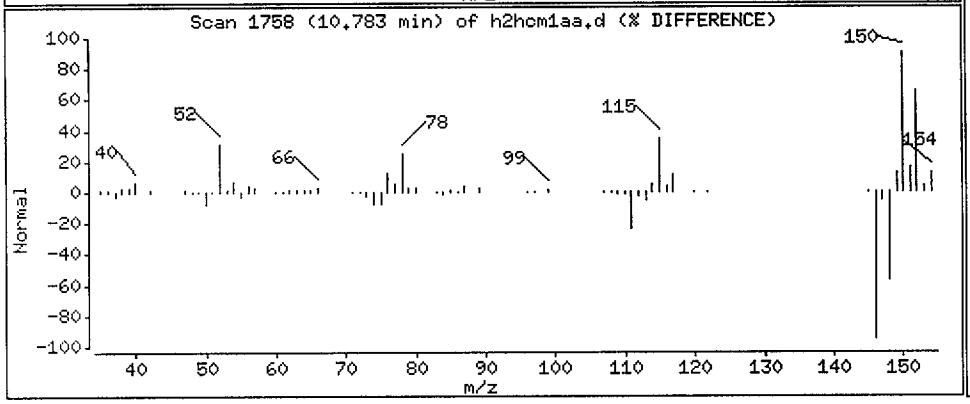
84 1,4-Dichlorobenzene

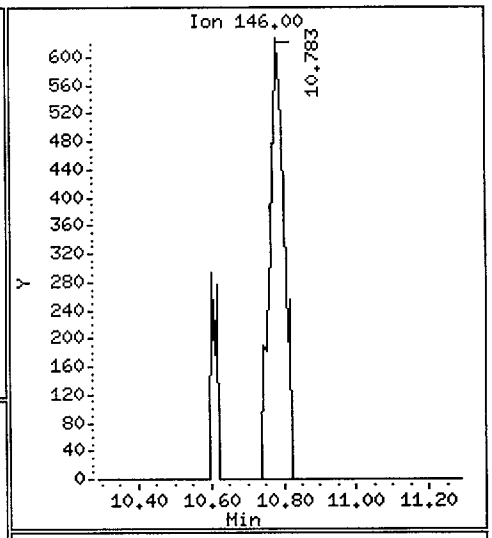
Concentration: 0.0011668 ug

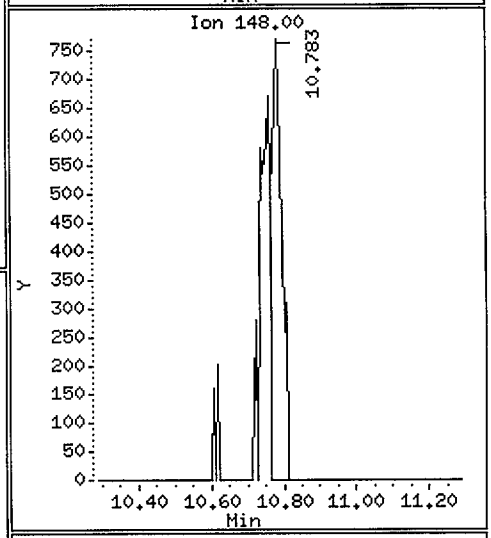


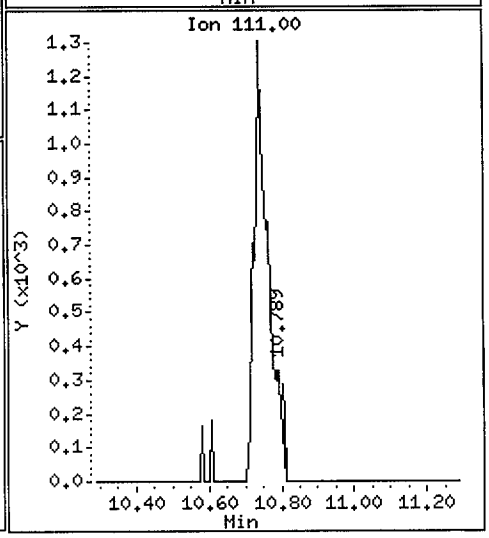












Data File: /chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

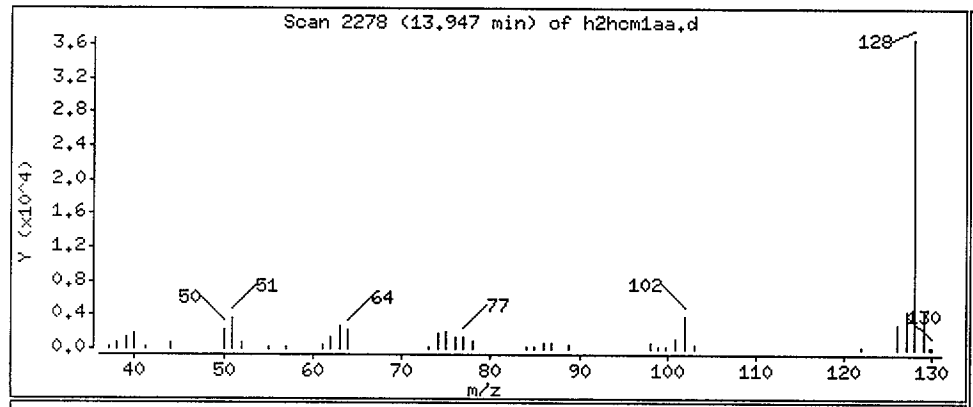
Operator: 22980

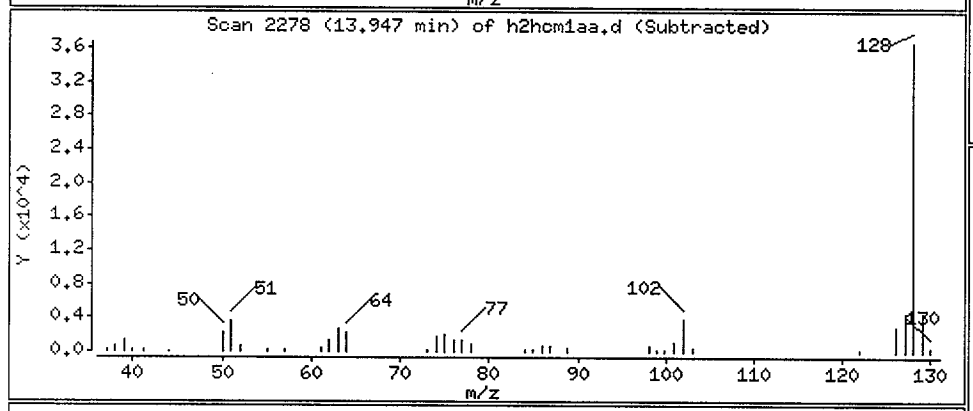
Column phase: J+W 624

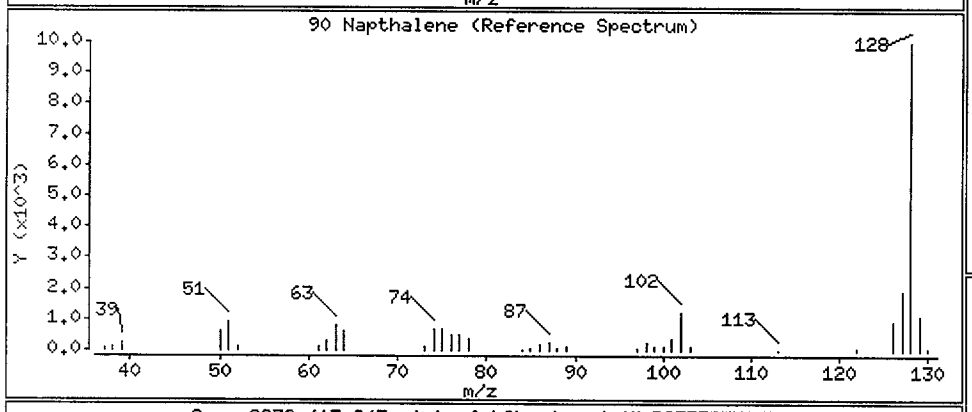
Column diameter: 0.18

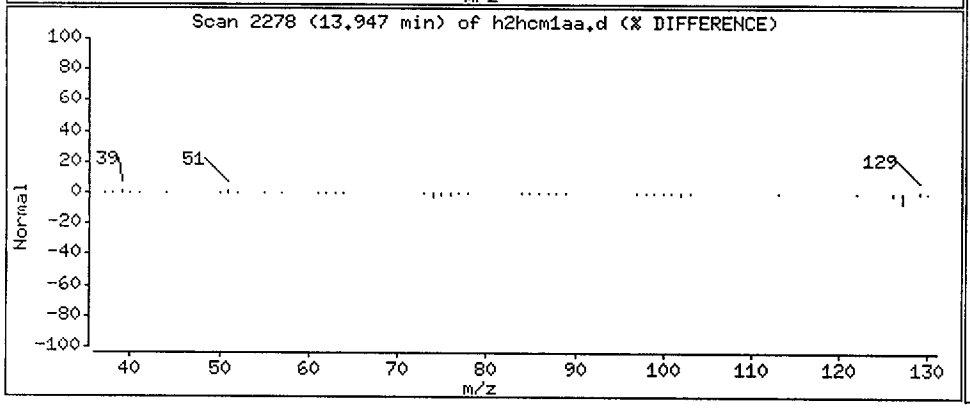
90 Napthalene

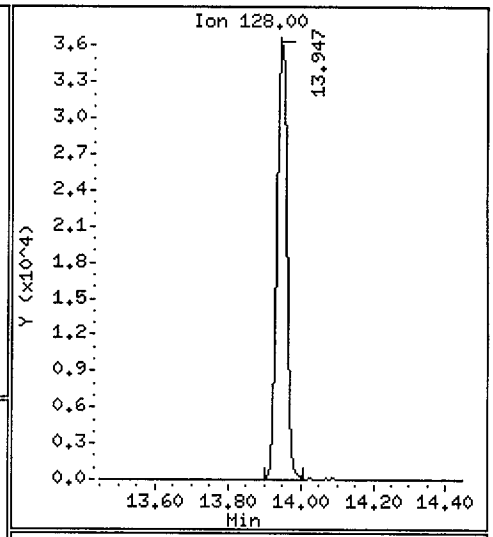
Concentration: 0.16269 ug

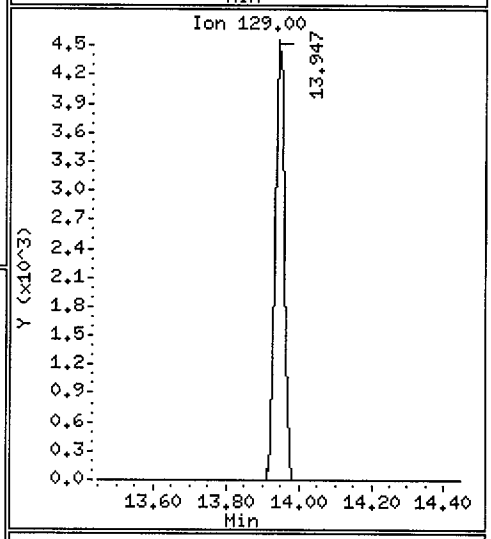


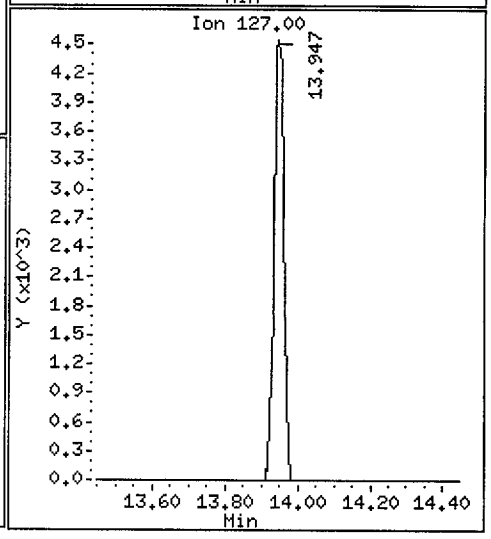












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Report Date: 18-Apr-2006 14:57

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d
Lab Smp Id: H2HCM1AA Client Smp ID: G-3093-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCM1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.852	1525029	10.000
* 3 1,4 Dichlorobenzene-d4	10.747	578013	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
1.019	745318	4.88723821	0.12218	5	NIST02.1	77	1
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
9.238	129972	2.24859994	0.056215	78	NIST02.1	115617	3
Benzaldehyde				CAS #: 100-52-7			
10.090	145087	2.51009925	0.062752	96	NIST02.1	4944	3

4/19/06 th

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

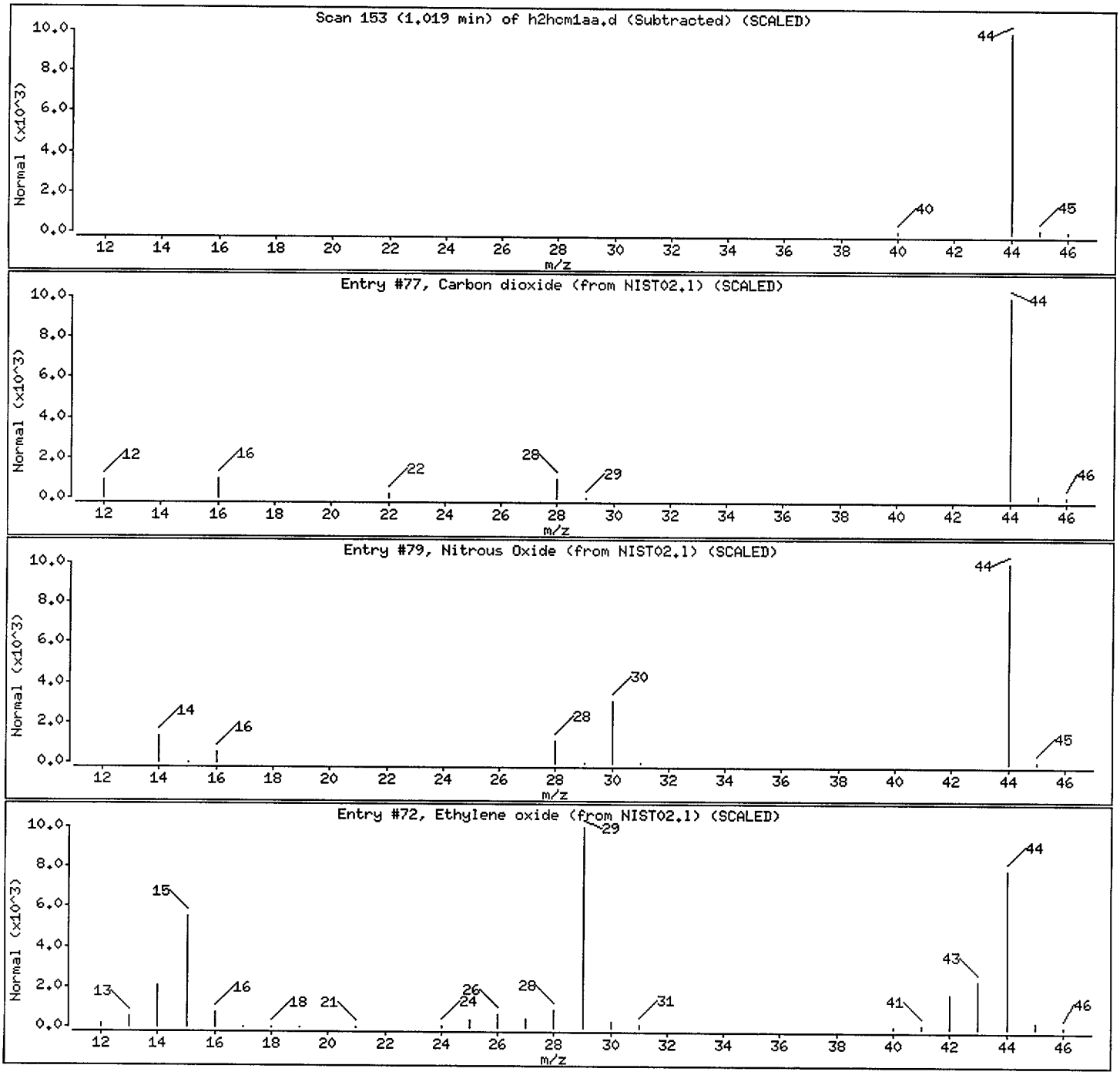
Sample Info: H2HCM1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.1	77	5	CO2	44
Nitrous Oxide	10024-97-2	NIST02.1	79	3	N2O	44
Ethylene oxide	75-21-8	NIST02.1	72	2	C2H4O	44



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

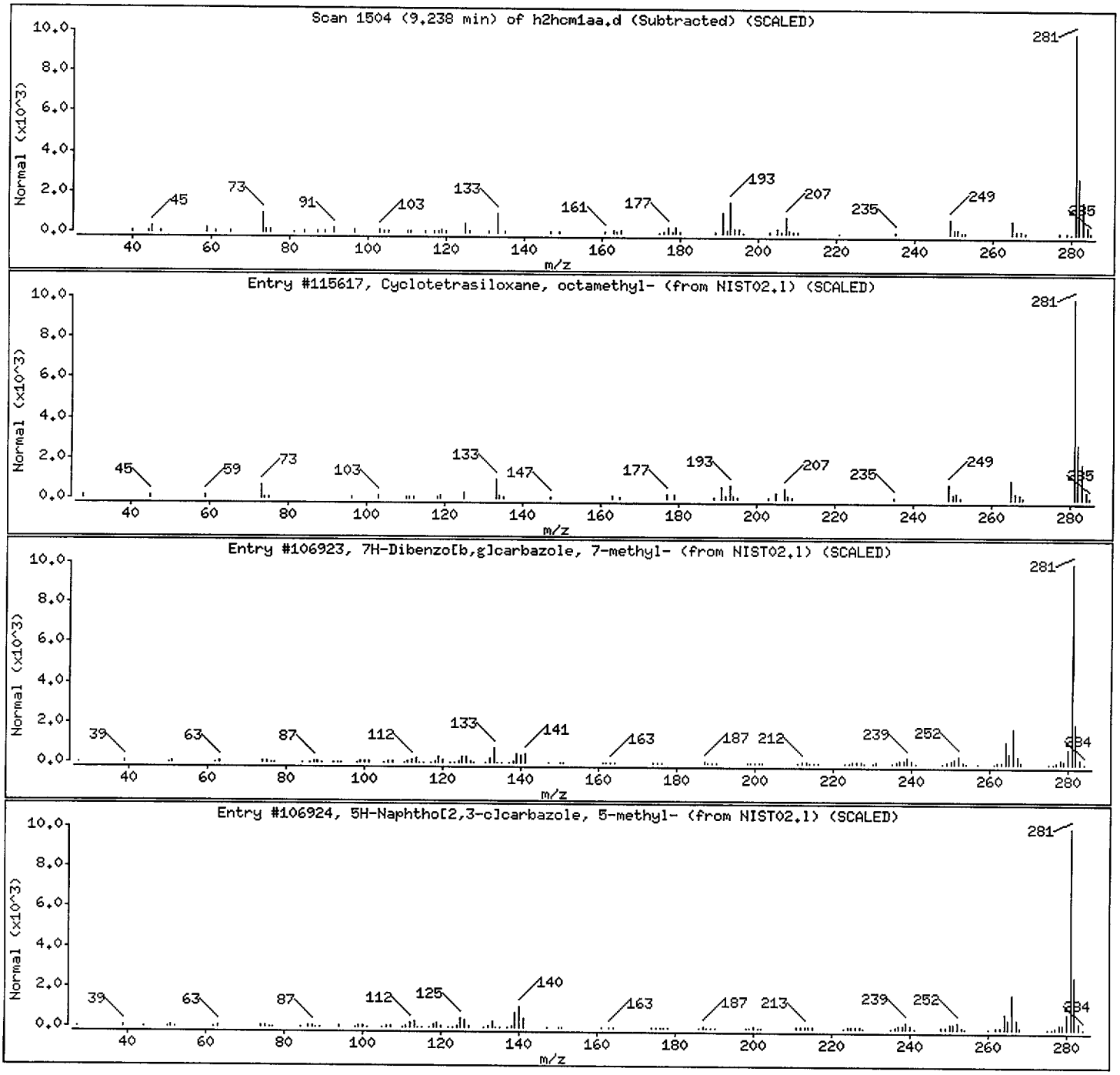
Sample Info: H2HCM1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115617	78	C8H24O4Si4	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	53	C21H15N	281
5H-Naphtho[2,3-c]carbazole, 5-methyl-	100025-44-3	NIST02.1	106924	50	C21H15N	281



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

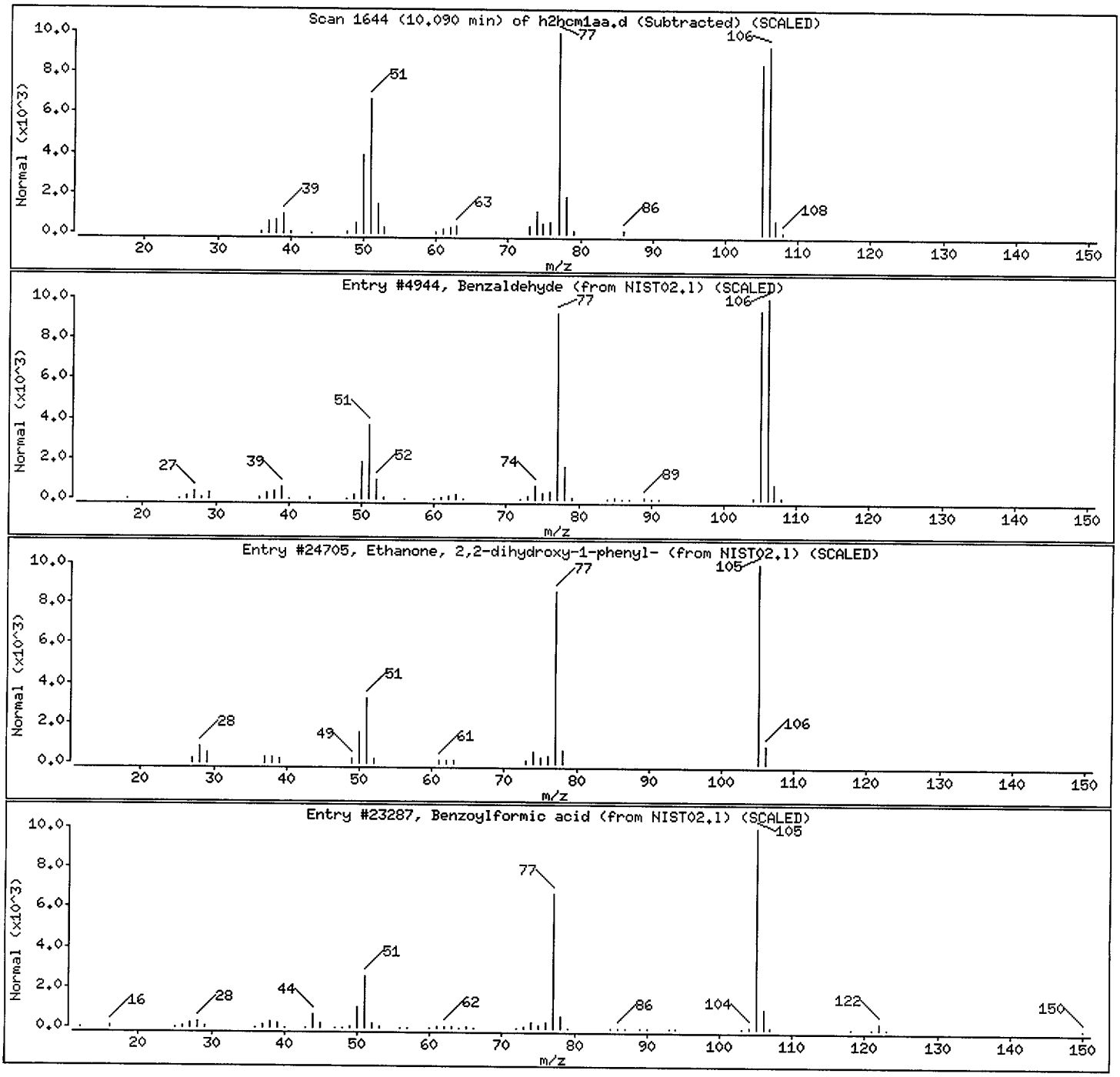
Sample Info: H2HCM1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.1	4944	96	C7H6O	106
Ethanone, 2,2-dihydroxy-1-phenyl-	1075-06-5	NIST02.1	24705	64	C8H8O3	152
Benzoylformic acid	611-73-4	NIST02.1	23287	64	C8H6O3	150



STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM2AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**2.8**	**0.010**	**ug**	**0.0013**

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Report Date: 10-May-2006 12:22

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Lab Smp Id: H2HCM1AA Client Smp ID: G-3093-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCM1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 10-May-2006 12:21 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1135324	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	225016	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.747	10.746	(1.000)	242017	10.0000	
57 Tetrachloroethene	164	6.823	6.816	(0.900)	1280598	40.3459	1.0086
62 Chlorobenzene (spcc)	112	7.614	7.607	(1.004)	8416452	113.066	2.8266(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Report Date: 10-May-2006 12:35

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcm1aa.d
Lab Smp Id: H2HCM1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3093-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1135324	-1.21
2 Chlorobenzene-d5	214194	107097	428388	225016	5.05
3 1,4 Dichlorobenze	242601	121300	485202	242017	-0.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

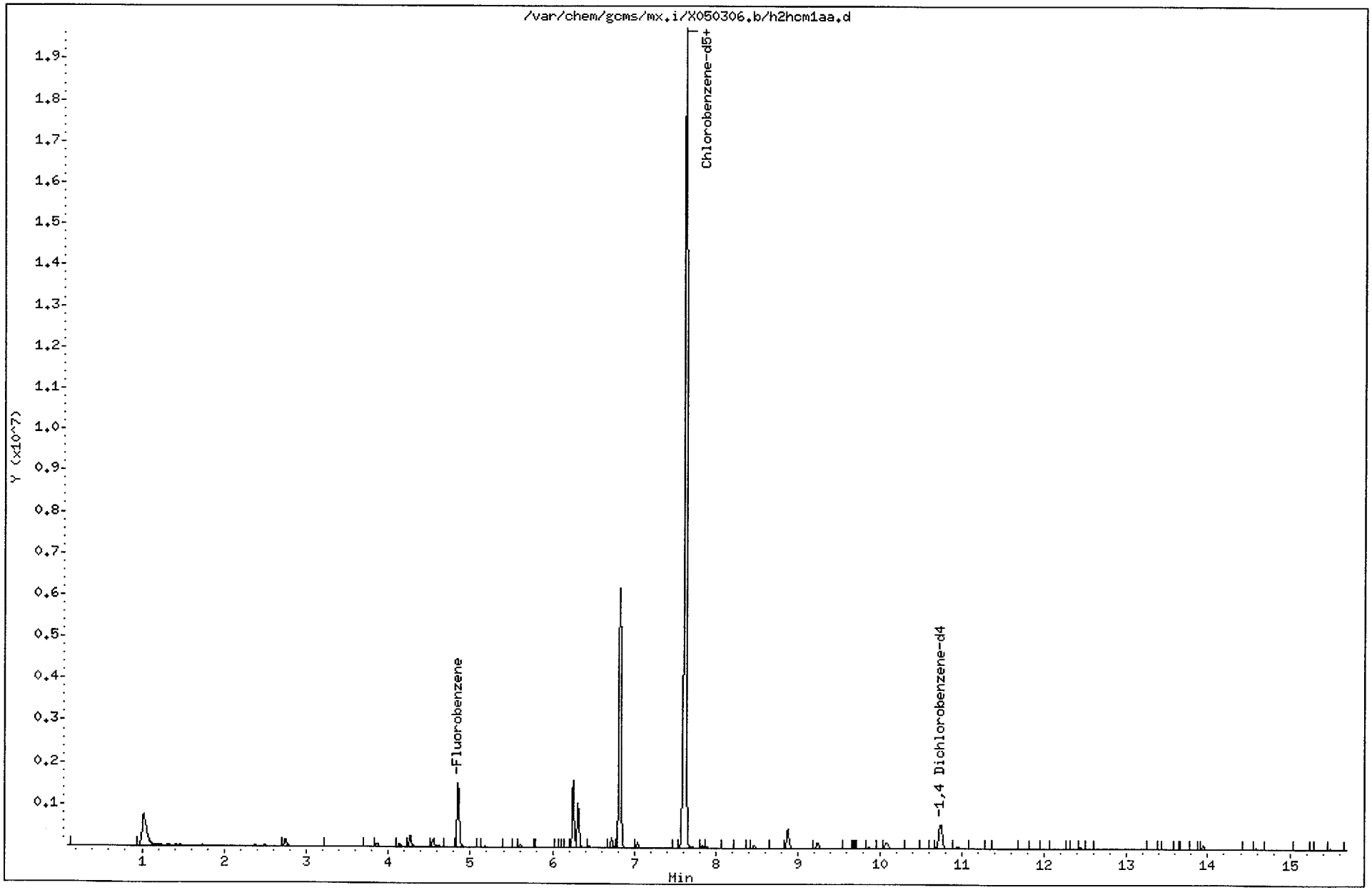
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d
Date : 07-APR-2006 15:10
Client ID: G-3093-R3-VOST PAIR
Sample Info: H2HCM1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

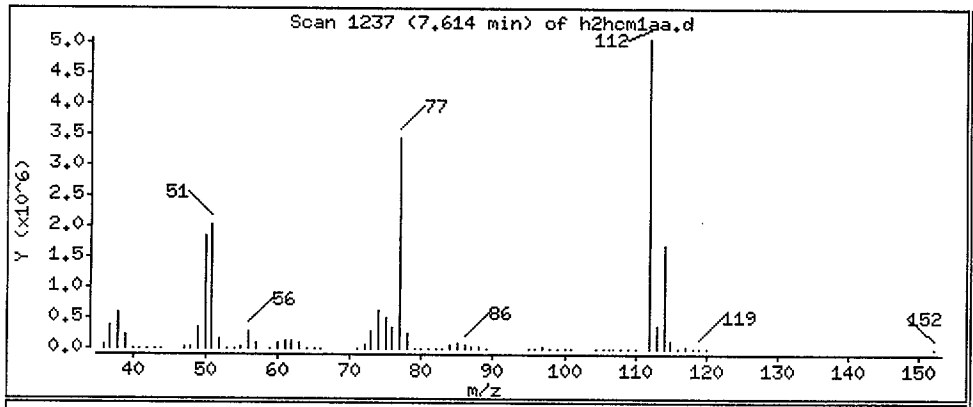
Operator: 22980

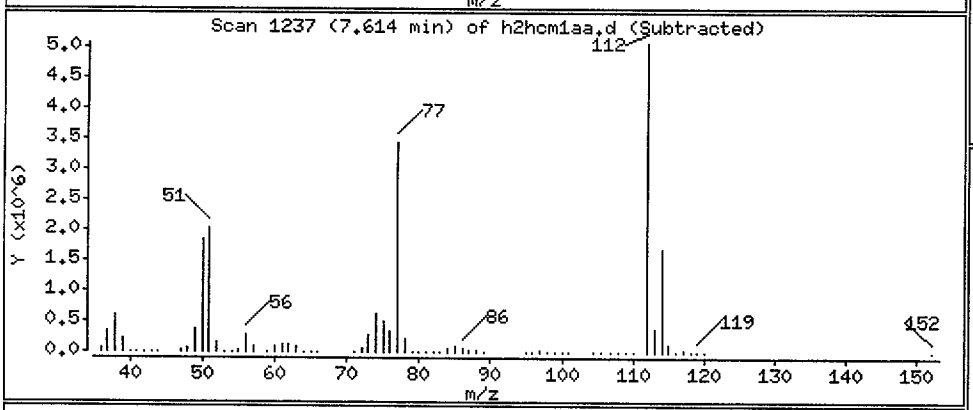
Column phase: J+W 624

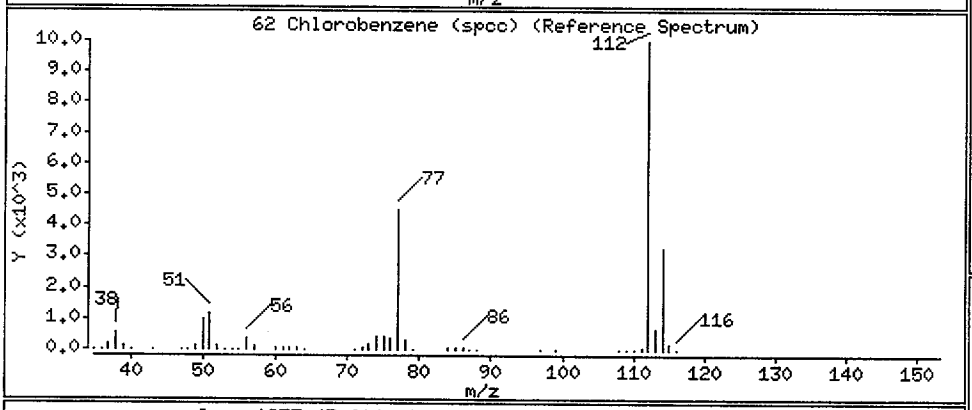
Column diameter: 0.18

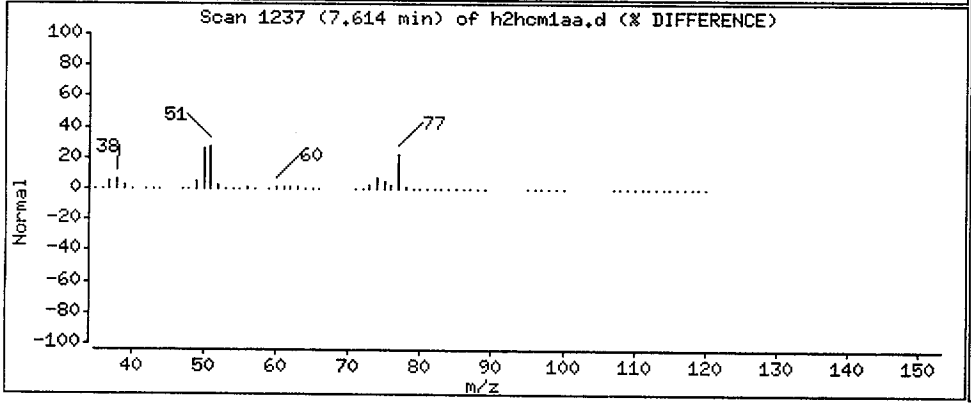
62 Chlorobenzene (spcc)

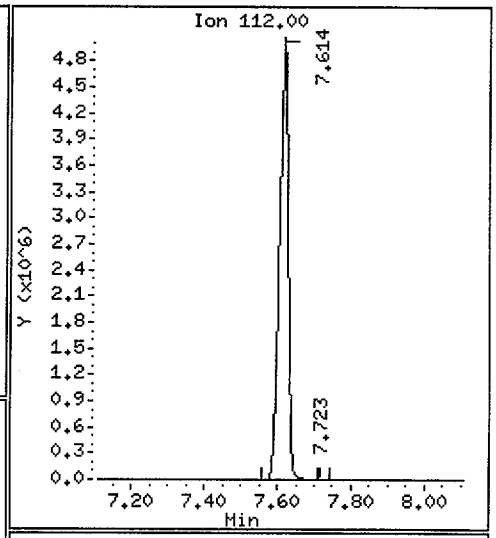
Concentration: 2.8266 ug

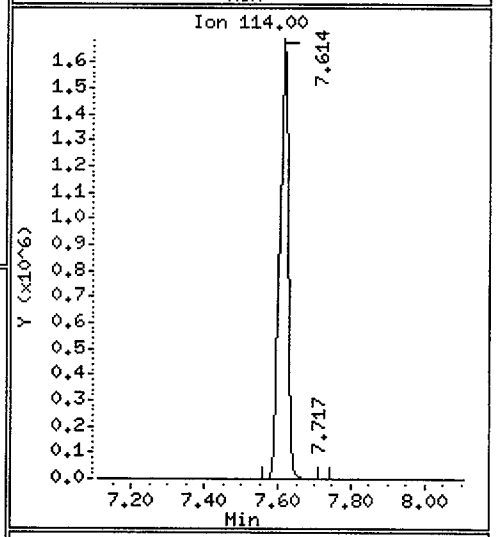


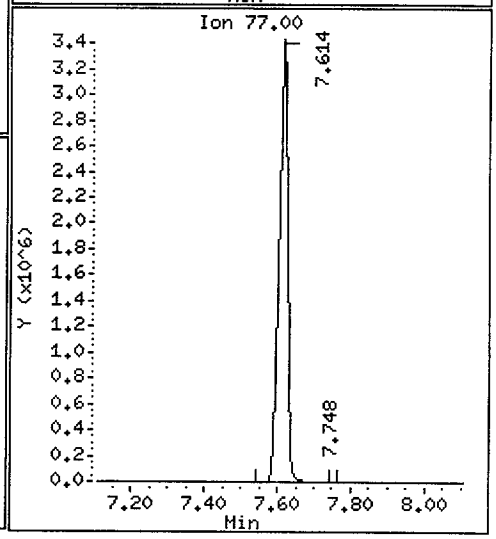












Data File: /var/chem/gcms/mx.i/X050306.b/h2hcm1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3093-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCM1AA,1,0,,,

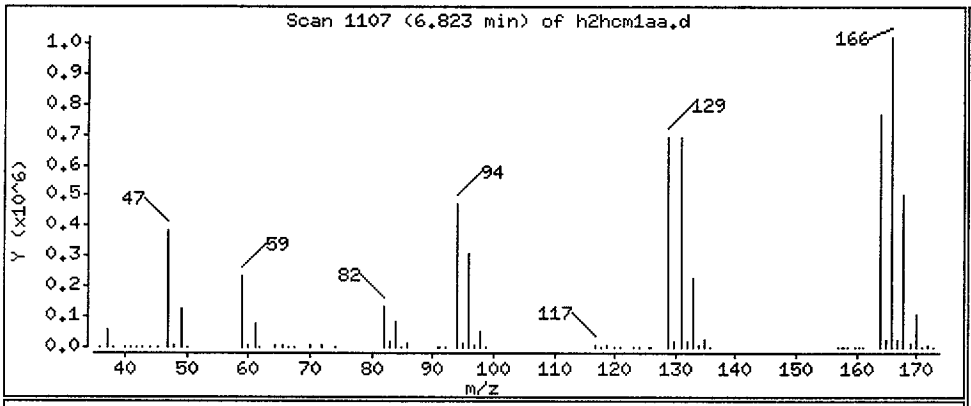
Operator: 22980

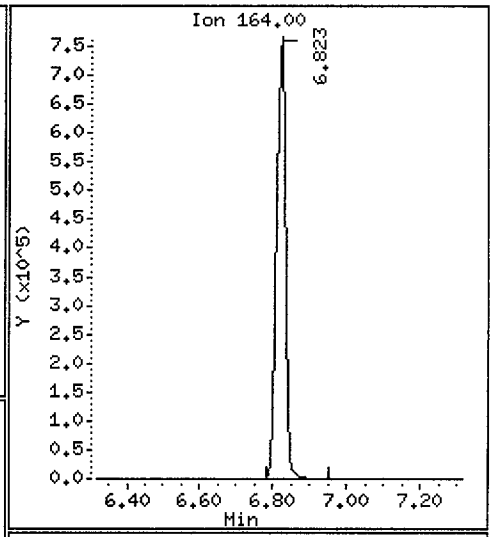
Column phase: J+W 624

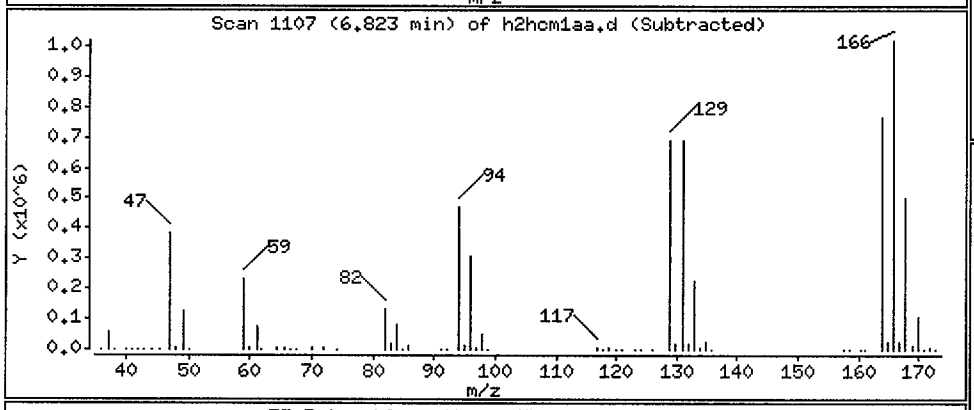
Column diameter: 0.18

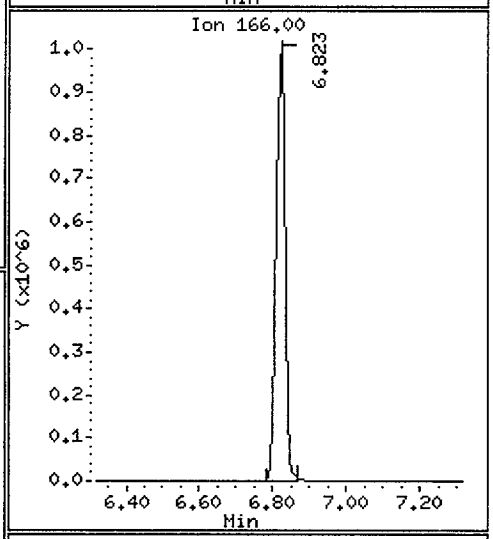
57 Tetrachloroethene

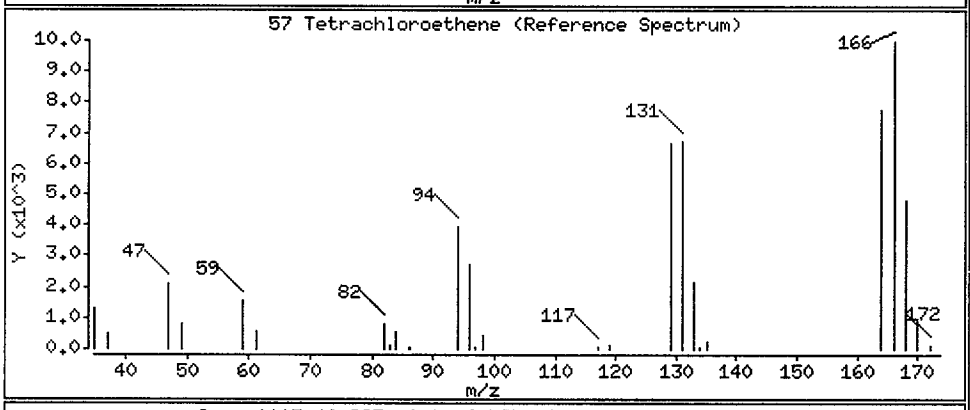
Concentration: 1.0086 ug

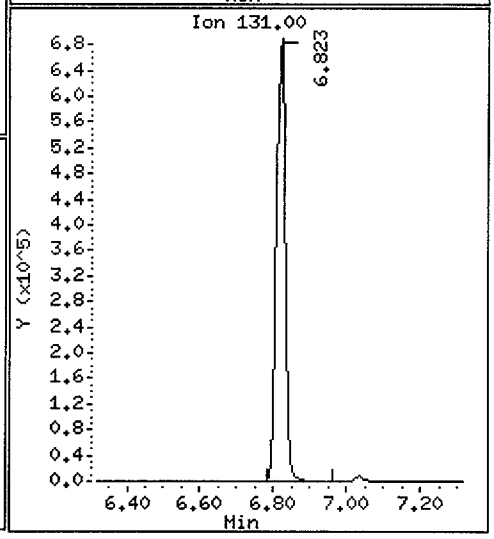


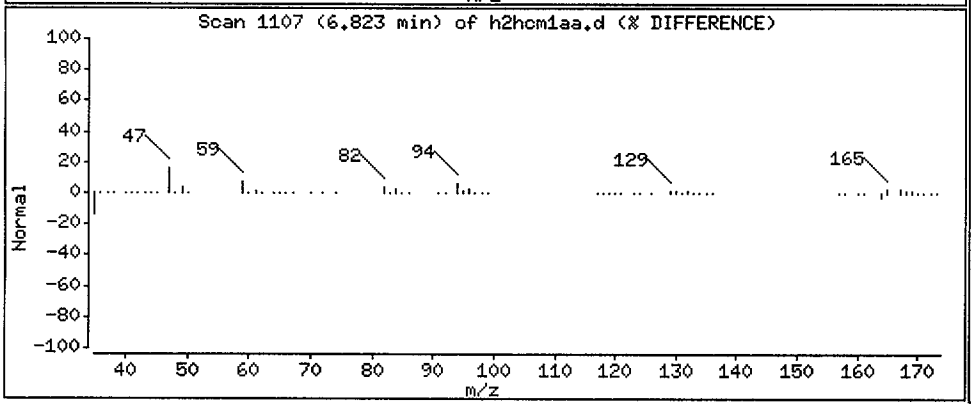












STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0032 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0048 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0044 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.021 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0064 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.071**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0097 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0072 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	84	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-028 **Work Order #:** H2HCN1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Lab Smp Id: H2HCN1AA Client Smp ID: G-3094-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCN1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/2/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	776770	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	173756	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	235963	10.0000	
$ 4 Dibromofluoromethane	113	4.833	4.831	(0.852)	139538	11.2109	0.28027
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	110045	10.2242	0.25561
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	712069	9.32691	0.23317
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	201051	8.44858	0.21121
10 Dichlorodifluoromethane	85	1.006	1.016	(0.177)	4887	0.25776	0.0064440
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	61580	0.84024	0.021006
15 Bromomethane	94	1.402	1.418	(0.247)	1772	1.04813	0.026203
16 Chloroethane	64	1.481	1.485	(0.261)	30685	2.11815	~~0.052954~~
22 Acetone	43	2.113	2.123	(0.373)	1044	3.47269	0.086817 - See reprint for (m)
23 *Iodomethane	142	2.192	2.184	(0.387)	800	0.56176	0.014044
24 Carbon Disulfide	76	2.241	2.239	(0.395)	7578	0.12717	0.0031791
27 Methylene Chloride	84	2.515	2.513	(0.443)	36703	2.82531	0.070633
39 *THF	42	4.541	4.532	(0.800)	1082	0.58760	0.014690

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
40 Chloroform (ccc)	83	4.614	4.618	(0.813)	4979	0.17743	0.0044357
44 Benzene	78	5.307	5.305	(0.936)	6391	0.08344	0.0020860
45 1,2-Dichloroethane	62	5.678	5.335	(1.001)	12145	0.74877	0.018719
46 Trichloroethene	130	6.122	6.114	(1.079)	6163	0.28605	0.0071512
53 4-Methyl-2-pentanone	43	7.467	7.386	(1.316)	6038	0.89024	0.022256
54 Toluene (ccc)	91	7.534	7.532	(0.843)	13029	0.13176	0.0032940
55 trans-1,3-Dichloropropene	75	8.106	7.793	(0.907)	312	0.64508	0.016127
58 Tetrachloroethene	164	8.100	8.097	(0.906)	7974	0.38878	0.0097195
63 Chlorobenzene (spcc)	112	8.963	8.961	(1.003)	10562	0.19138	0.0047845
68 Styrene	104	9.633	9.630	(1.078)	2588	0.04855	0.0012138
69 Bromoform (spcc)	173	10.119	9.782	(1.132)	178	0.86576	0.021644
74 1,2,3-Trichloropropane	110	10.496	10.324	(0.913)	330	0.16249	0.0040623
83 1,3-Dichlorobenzene	146	11.525	11.395	(1.003)	2482	0.06010	0.0015025
85 1,4-Dichlorobenzene	146	11.525	11.528	(1.003)	2482	0.06461	0.0016152

DRW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 14-Apr-2006 16:05

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Lab Smp Id: H2HCN1AA Client Smp ID: G-3094-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCN1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	776770	10.0000	
* 2 Chlorobenzene-d5	119	8.939	8.937	(1.000)	173756	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	235963	10.0000	
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$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	110045	10.2242	0.25560
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	712069	9.32695	0.23317
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	201051	8.44860	0.21122
10 Dichlorodifluoromethane	85	1.006	1.016	(0.177)	4887	0.25774	0.0064435
11 Chloromethane (spcc)	50	1.122	1.126	(0.198)	61580	0.84023	0.021006
15 Bromomethane	94	1.402	1.418	(0.247)	1772	1.04812	0.026203
22 Acetone	43	2.138	2.123	(0.377)	3528	4.01160	0.10029(MH)
23 *Iodomethane	142	2.192	2.184	(0.387)	800	0.56174	0.014043
24 Carbon Disulfide	76	2.241	2.239	(0.395)	7578	0.12716	0.0031791
27 Methylene Chloride	84	2.515	2.513	(0.443)	36703	2.82525	0.070631
39 *THF	42	4.541	4.532	(0.800)	1082	0.58708	0.014677
40 Chloroform (ccc)	83	4.614	4.618	(0.813)	4979	0.17740	0.0044351

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 14-Apr-2006 16:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
44 Benzene	78	5.307	5.305	(0.936)	6391	0.08343	0.0020858
46 Trichloroethene	130	6.122	6.114	(1.079)	6163	0.28601	0.0071504
54 Toluene (ccc)	91	7.534	7.532	(0.843)	13029	0.13176	0.0032940
58 Tetrachloroethene	164	8.100	8.097	(0.906)	7974	0.38878	0.0097194
63 Chlorobenzene (spcc)	112	8.963	8.961	(1.003)	10562	0.19137	0.0047842
68 Styrene	104	9.633	9.630	(1.078)	2588	0.04854	0.0012136
85 1,4-Dichlorobenzene	146	11.525	11.528	(1.003)	2482	0.06460	0.0016150

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcn1aa.d
Lab Smp Id: H2HCN1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3094-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	776770	-18.46
2 Chlorobenzene-d5	164101	82050	328202	173756	5.88
3 1,4 Dichlorobenze	204390	102195	408780	235963	15.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.07
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 07-Apr-2006 15:27

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCN1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3094-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

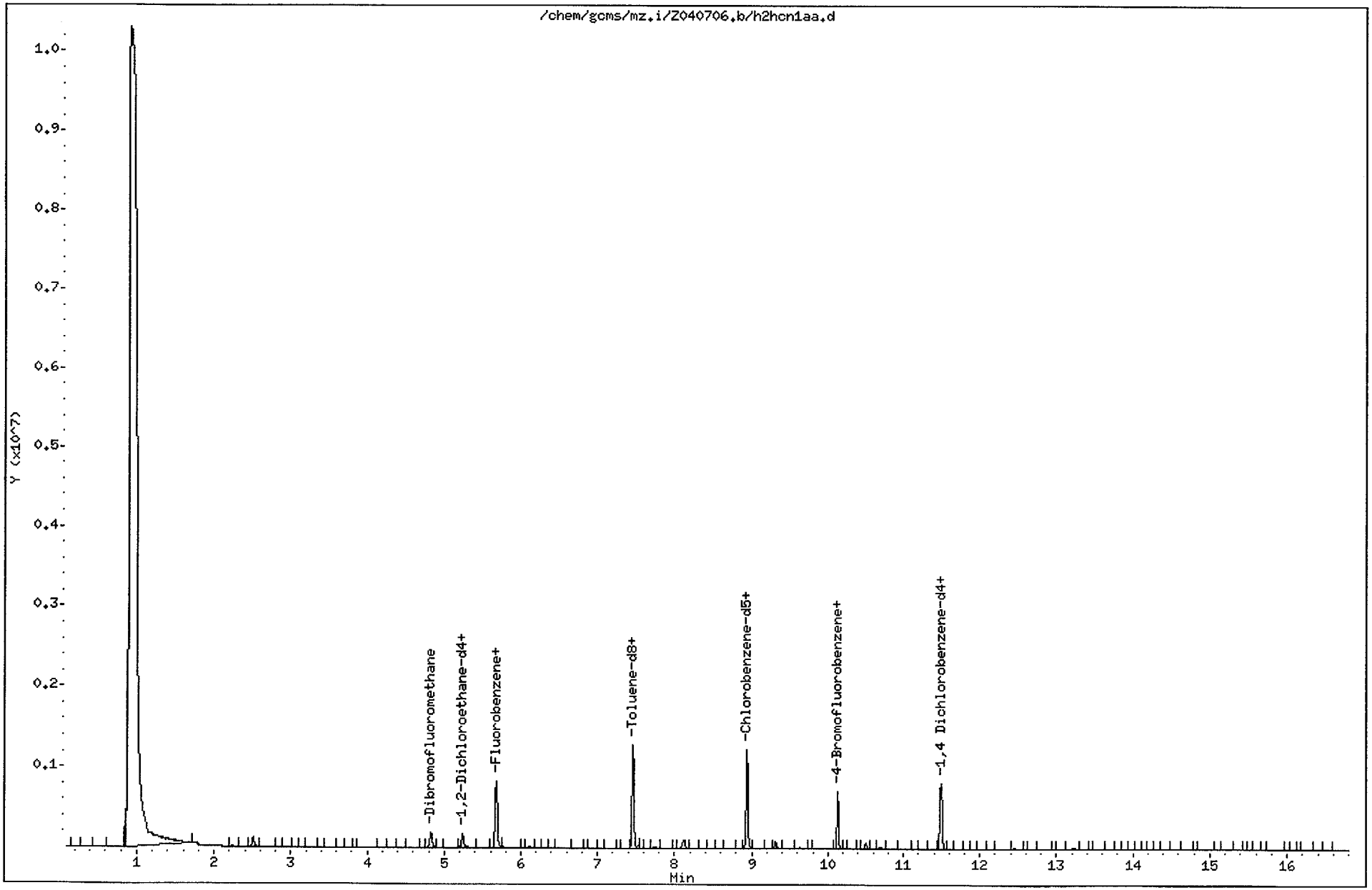
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.28027	112.11	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25561	102.24	50-150
$ 6 Toluene-d8	0.25000	0.23317	93.27	50-150
$ 7 4-Bromofluorobenze	0.25000	0.21121	84.49	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Date : 07-APR-2006 15:10
Client ID: G-3094-R3-VOST PAIR
Sample Info: H2HCN1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

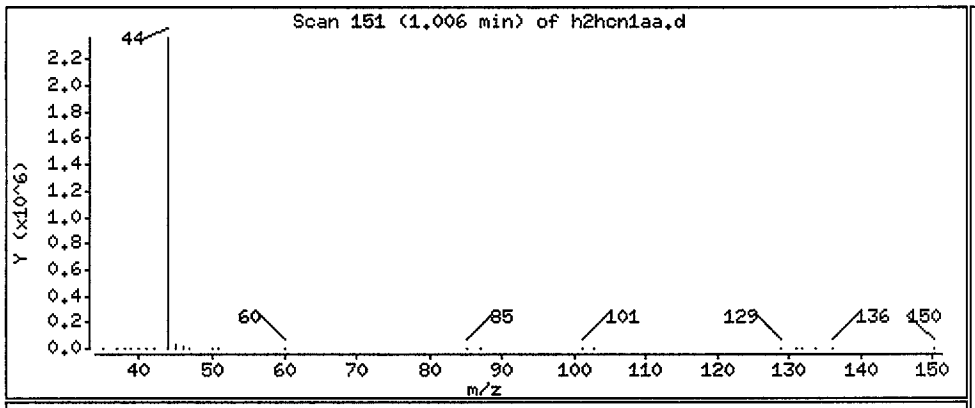
Operator: 22980

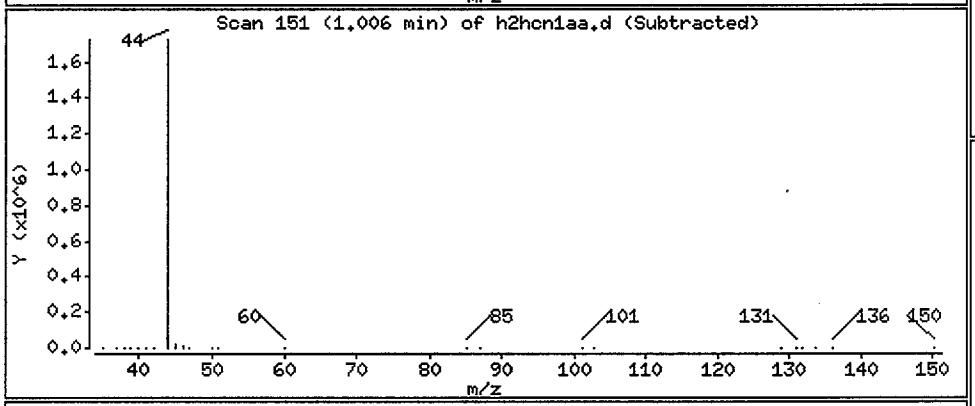
Column phase: J+W 624

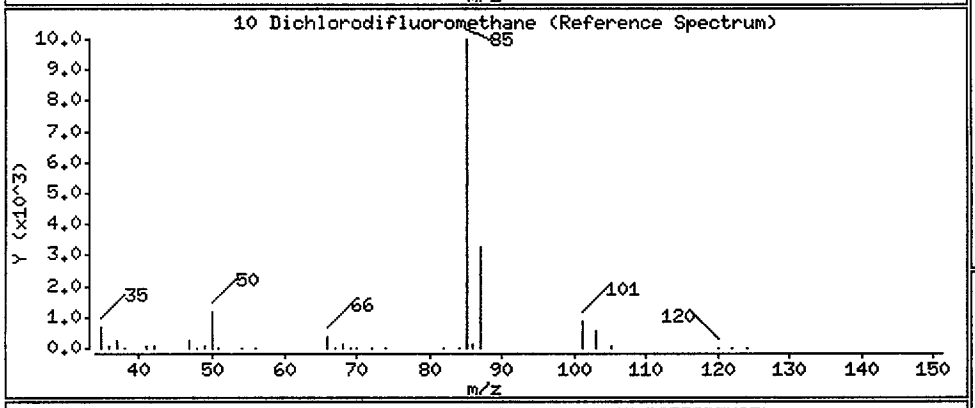
Column diameter: 0.18

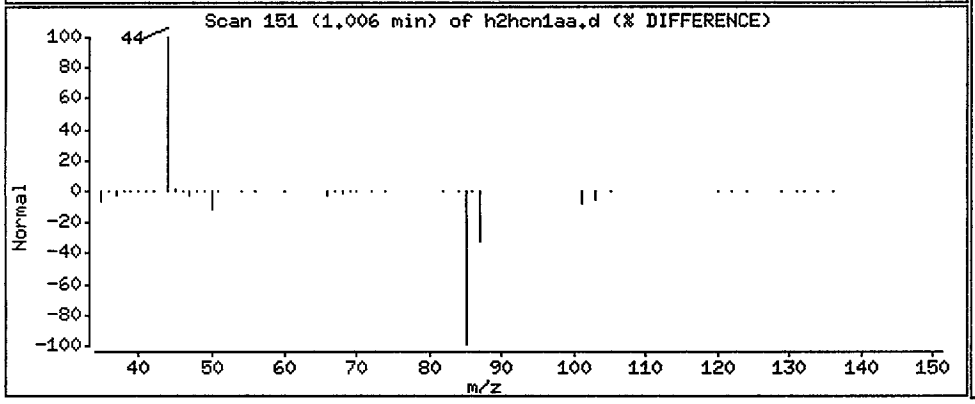
10 Dichlorodifluoromethane

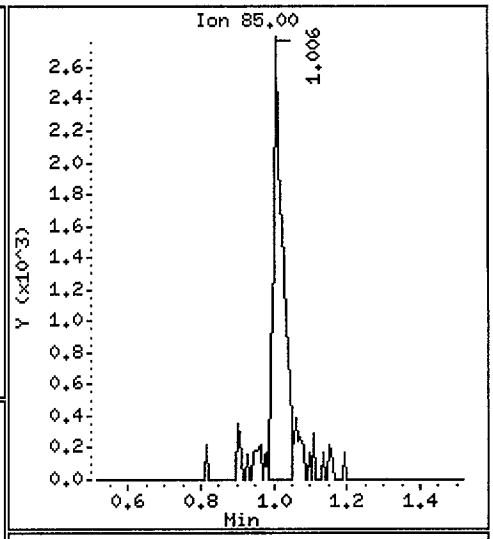
Concentration: 0.0064440 ug

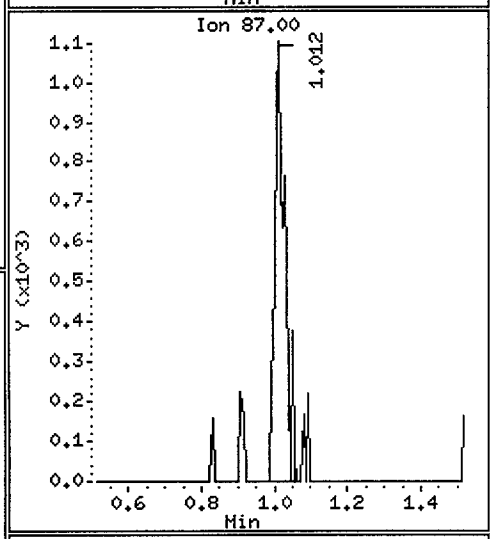


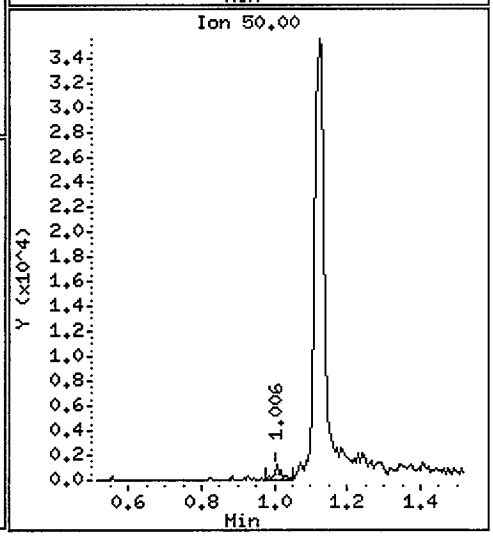












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

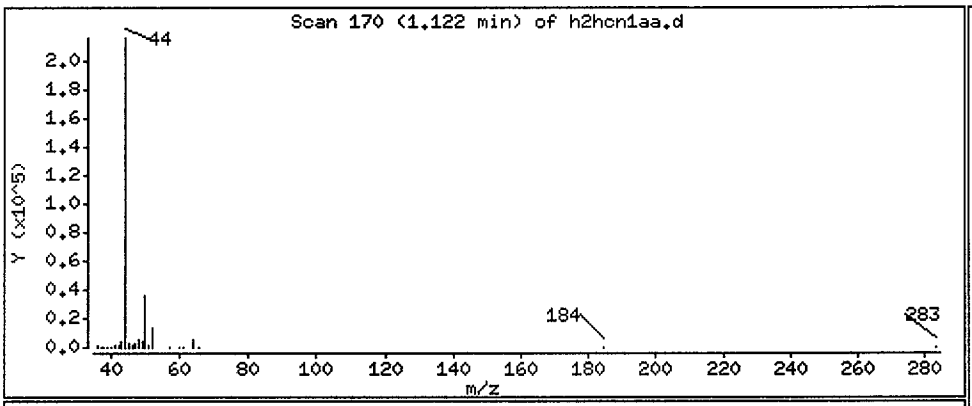
Operator: 22980

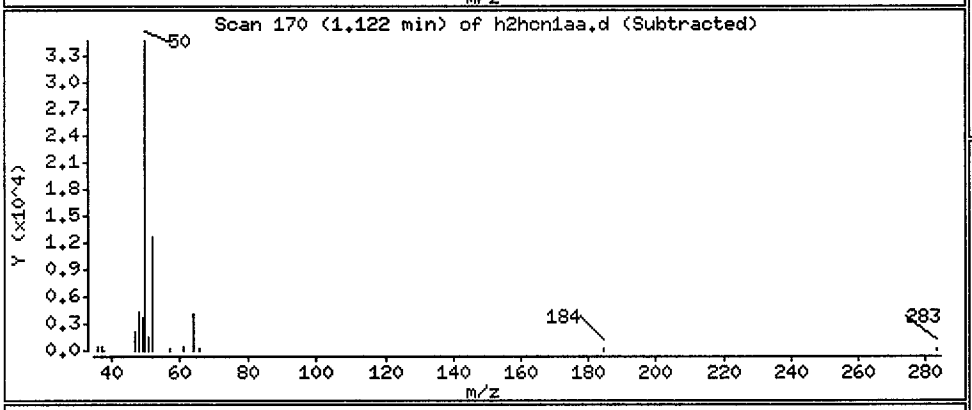
Column phase: J+W 624

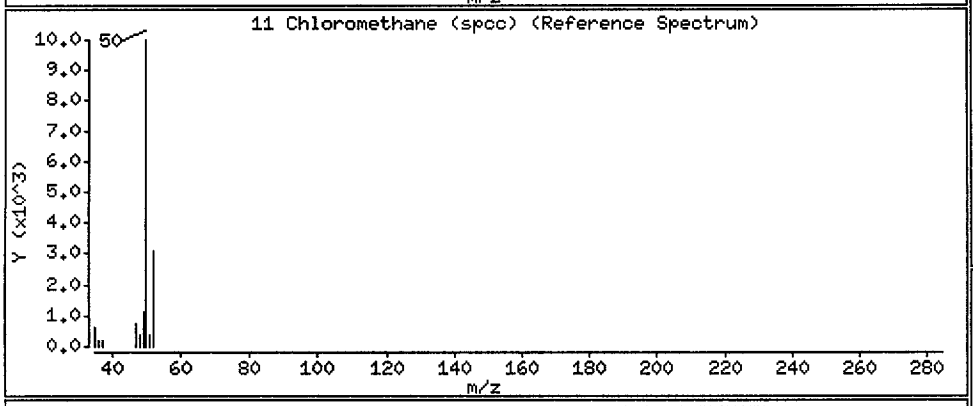
Column diameter: 0.18

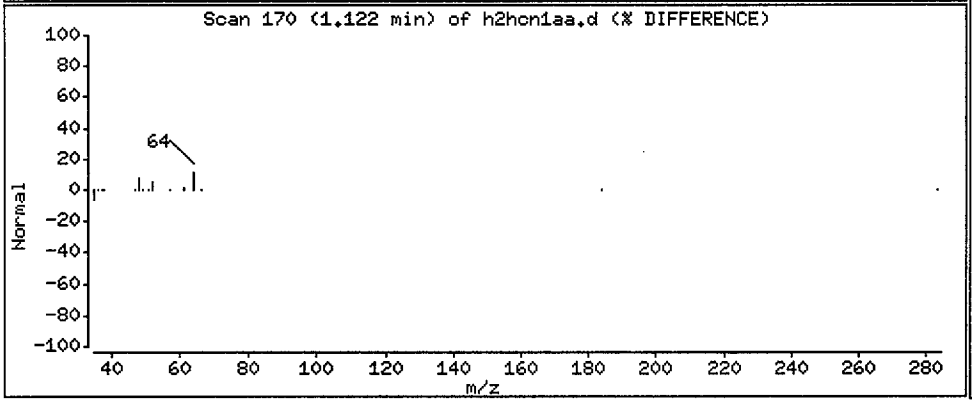
11 Chloromethane (spcc)

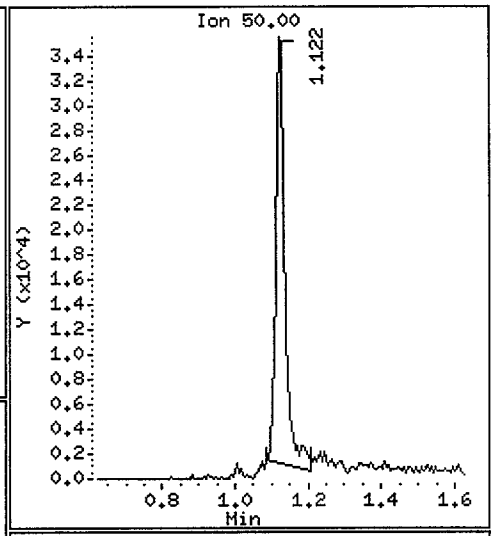
Concentration: 0.021006 ug

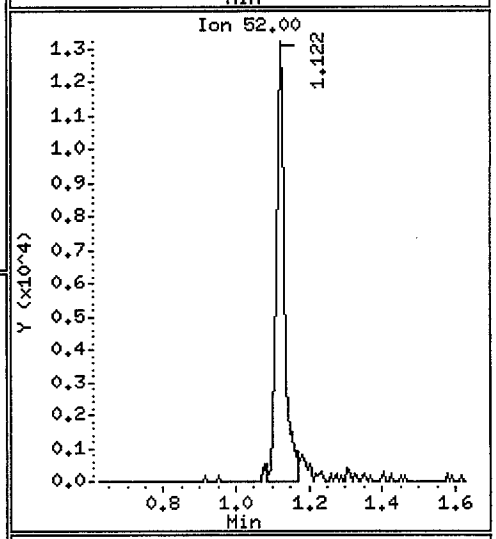


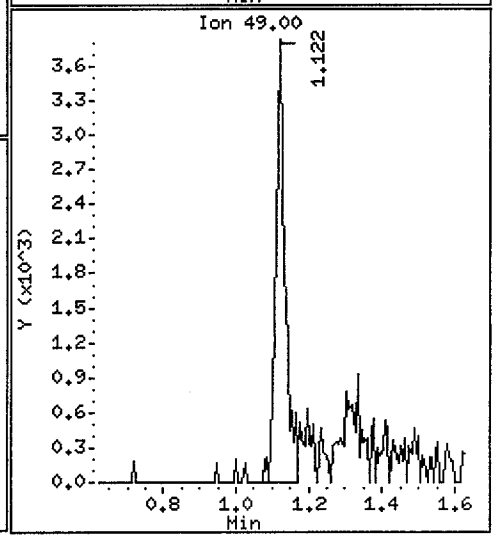












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

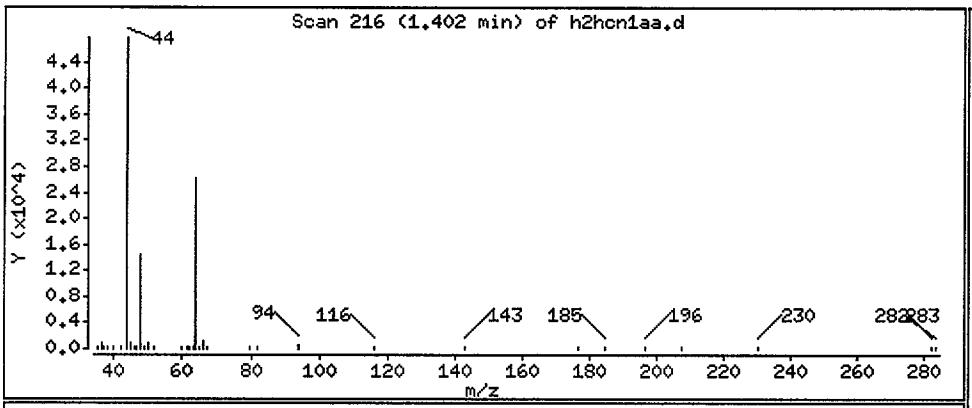
Operator: 22980

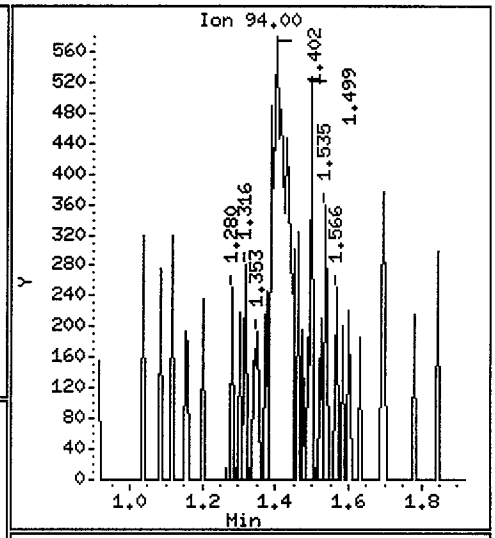
Column phase: J+W 624

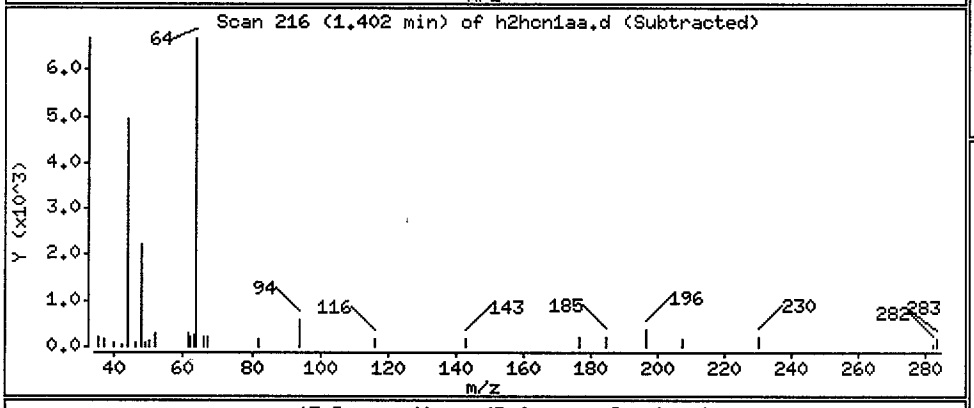
Column diameter: 0.18

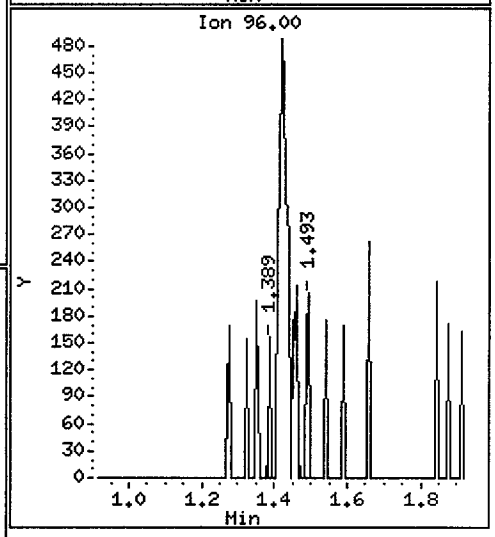
15 Bromomethane

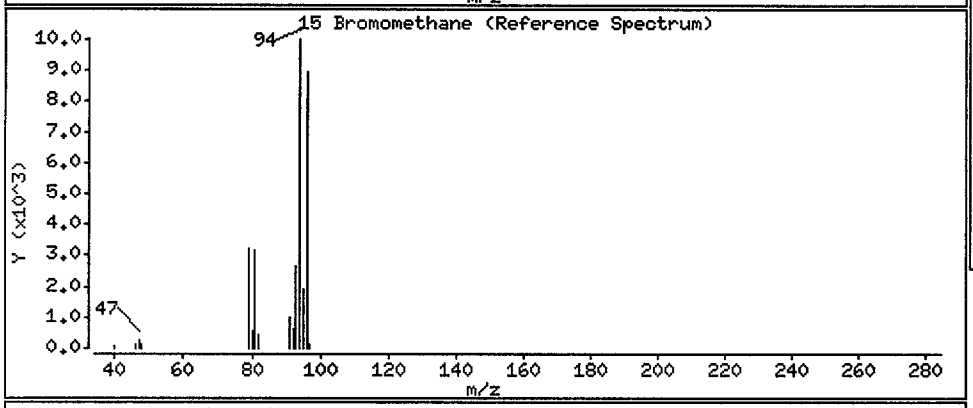
Concentration: 0.026203 ug

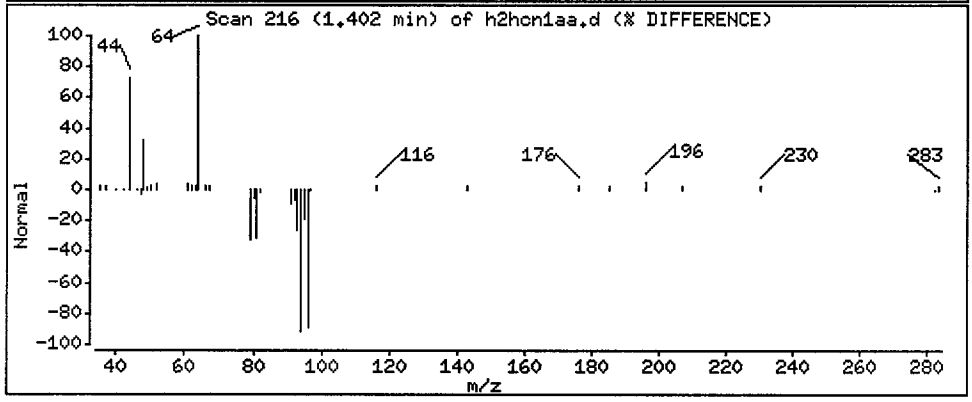












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

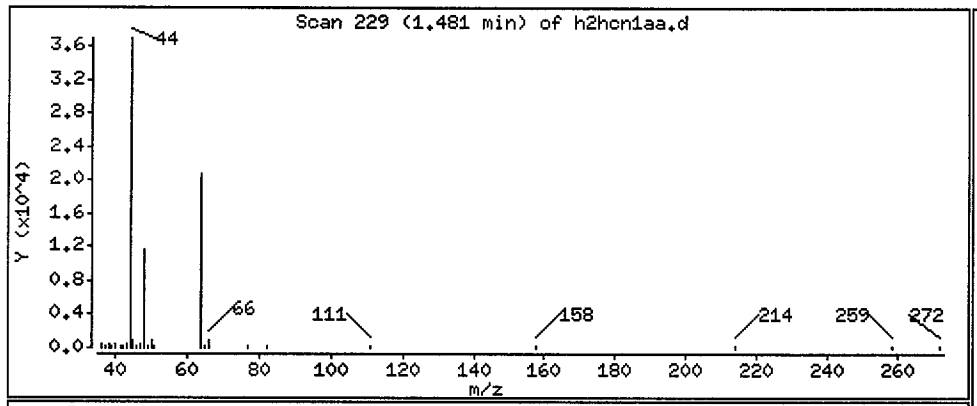
Operator: 22980

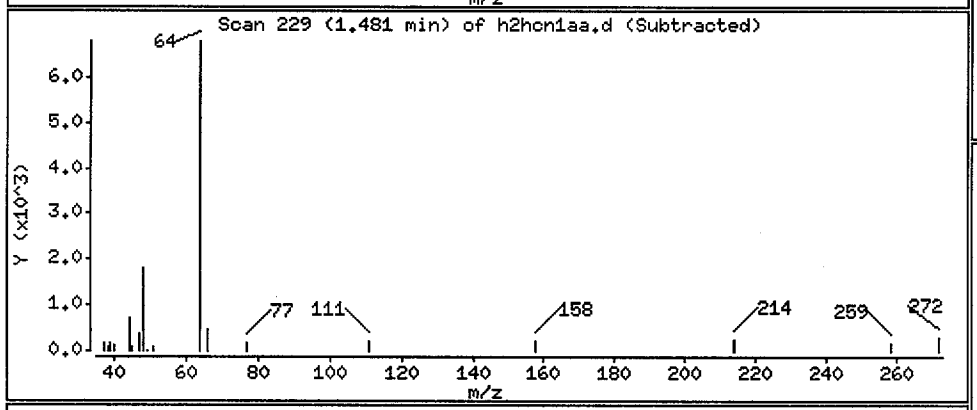
Column phase: J+W 624

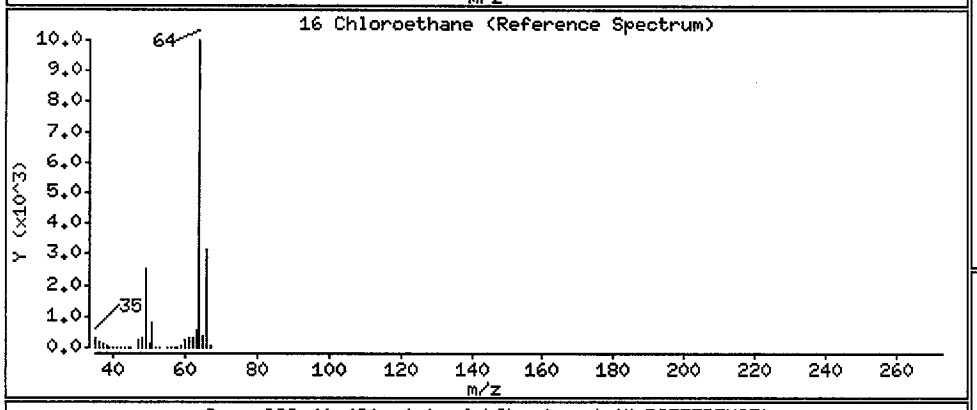
Column diameter: 0.18

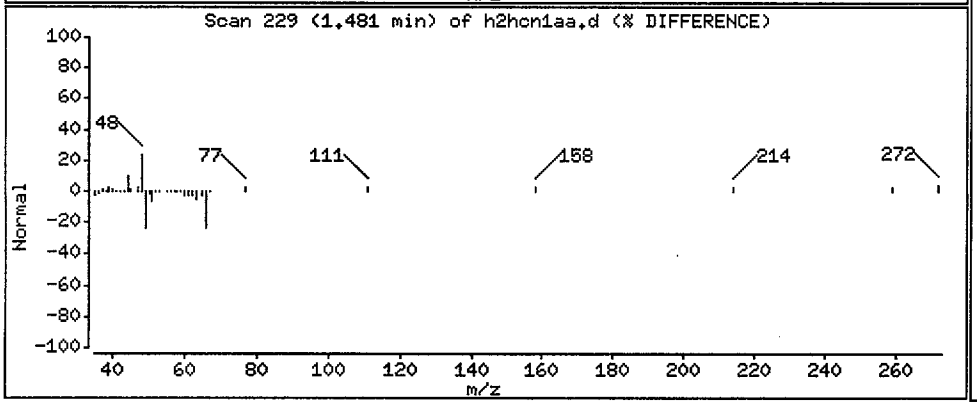
16 Chloroethane

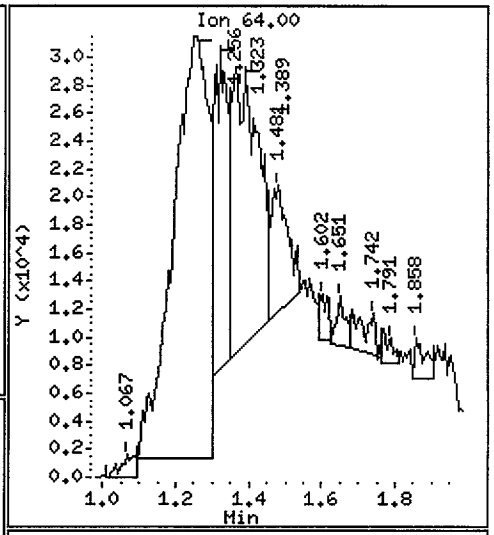
Concentration: 0.052954 ug

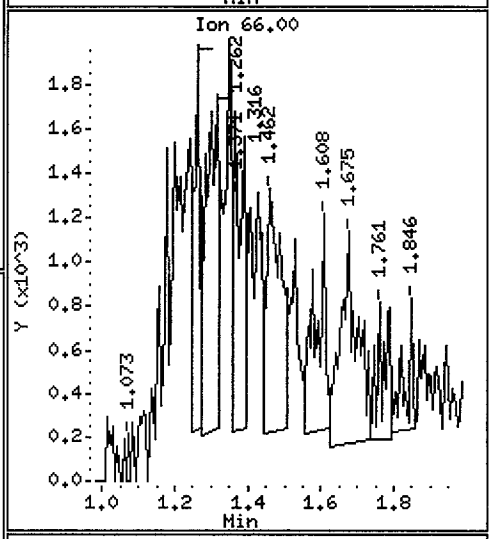


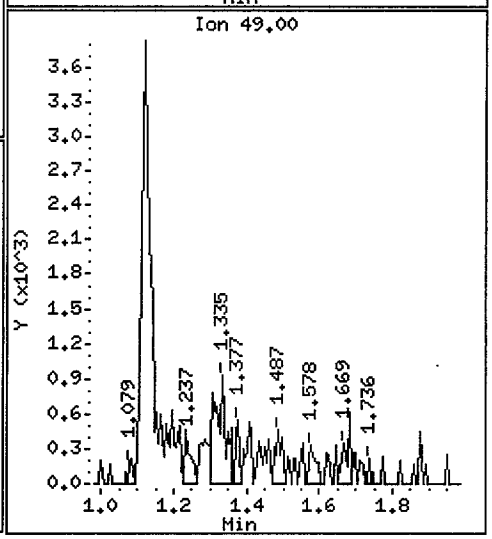












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

DLW 4-14-06

1

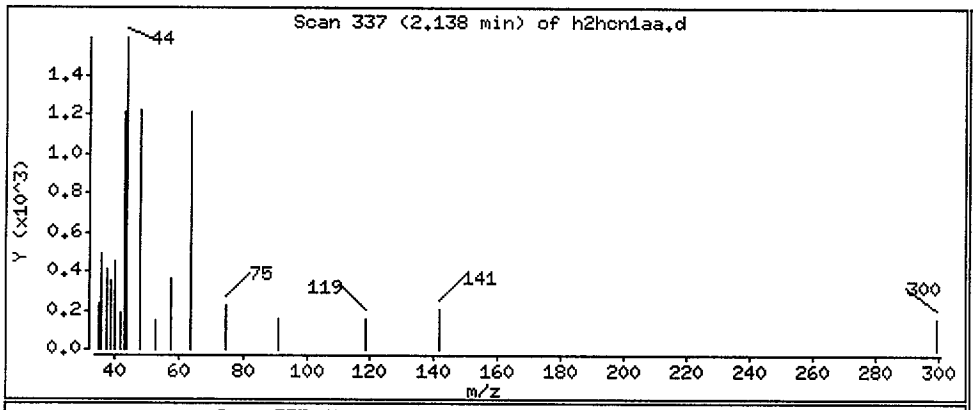
Operator: 22980

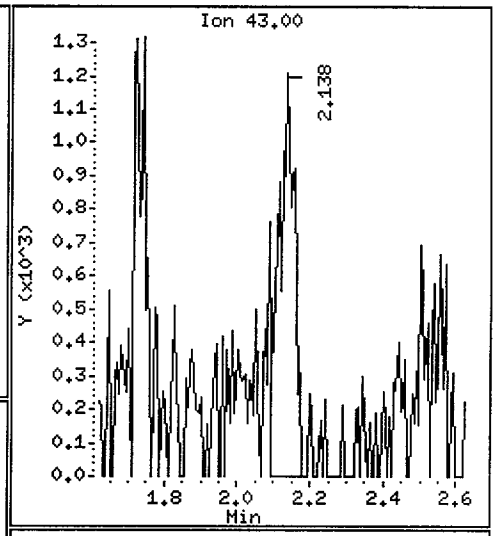
Column phase: J+W 624

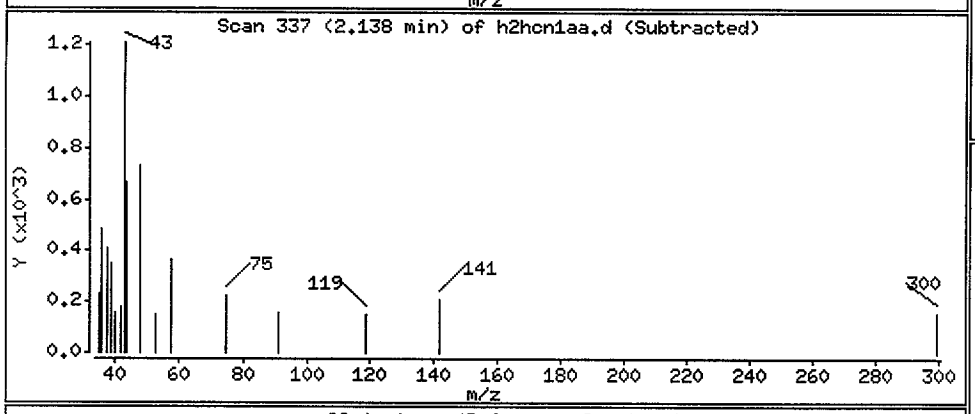
Column diameter: 0.18

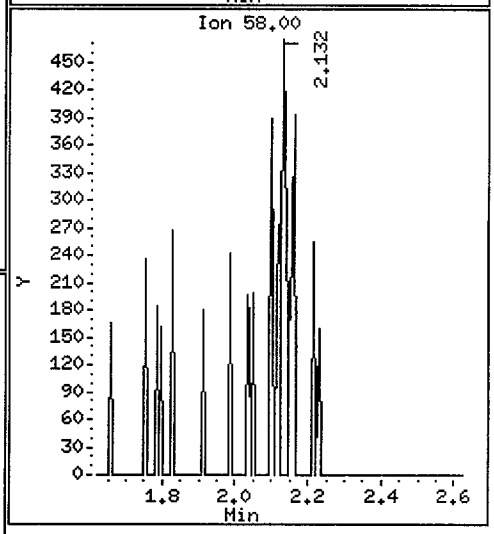
22 Acetone

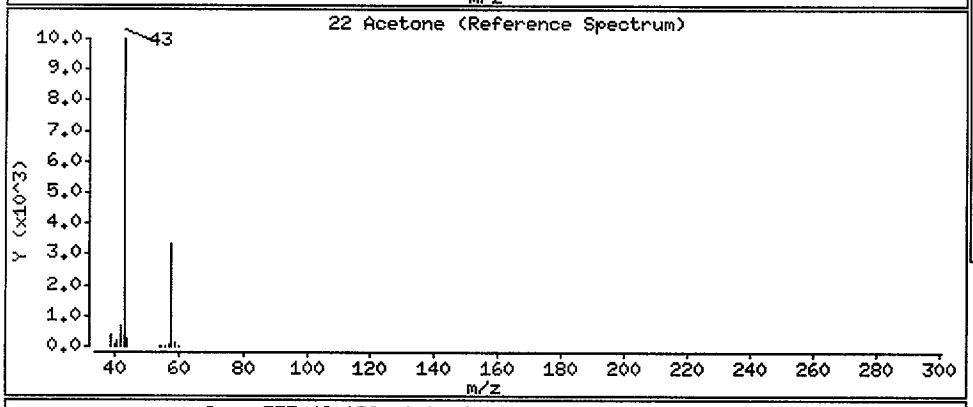
Concentration: 0.10029 ug

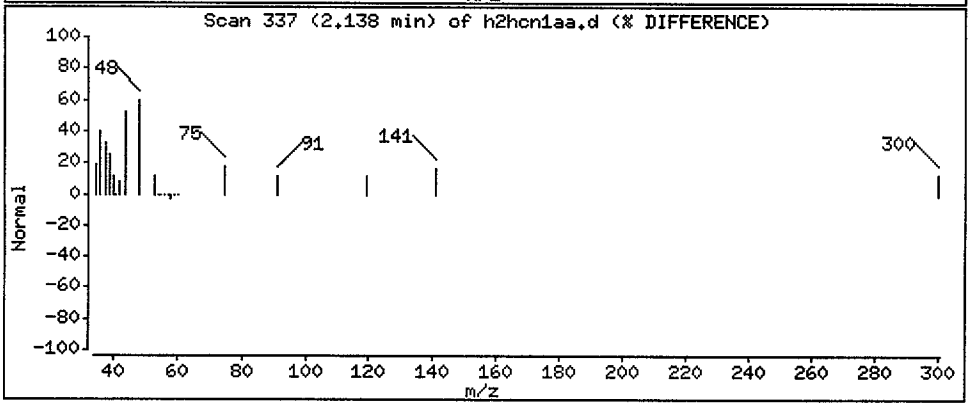












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

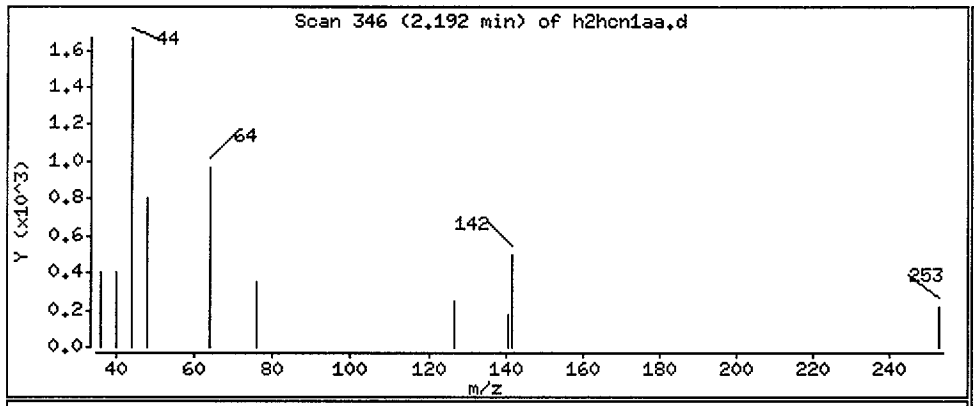
Operator: 22980

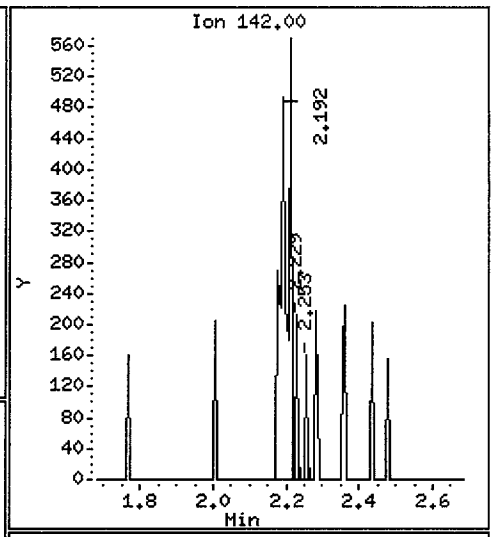
Column phase: J+W 624

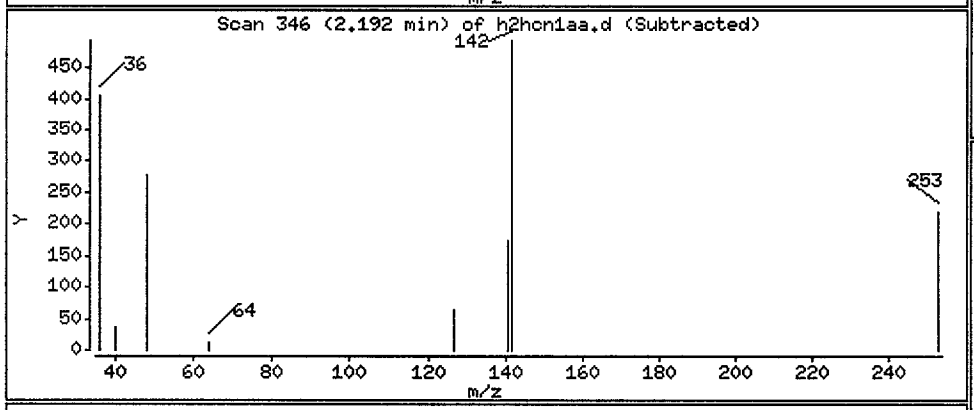
Column diameter: 0.18

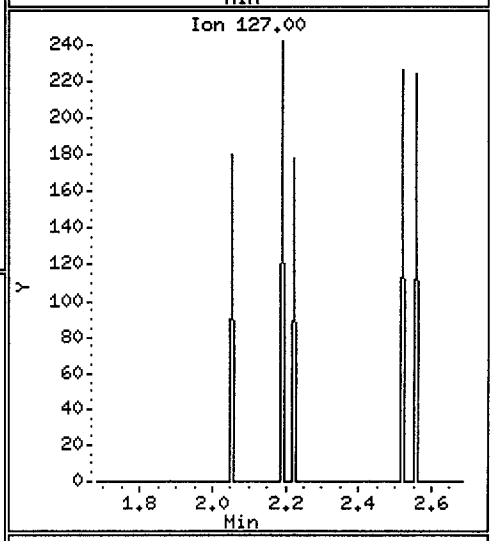
23 *Iodomethane

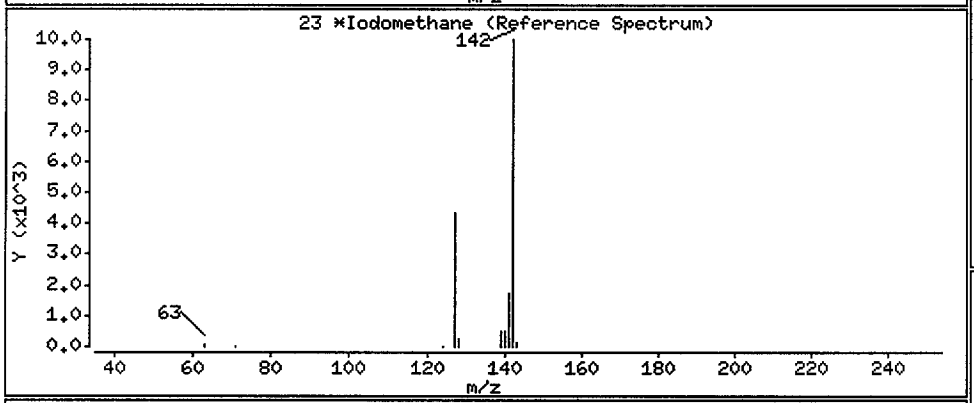
Concentration: 0.014044 ug

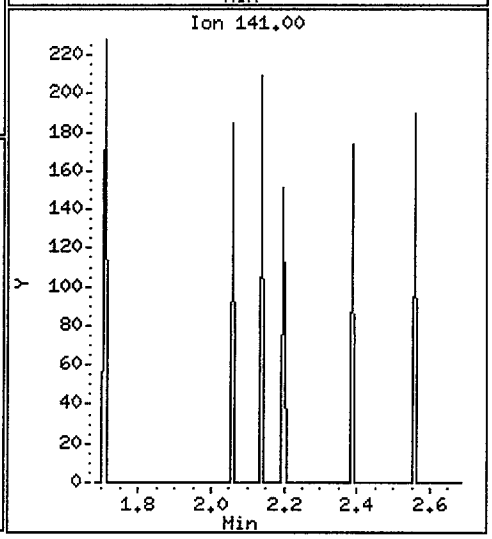


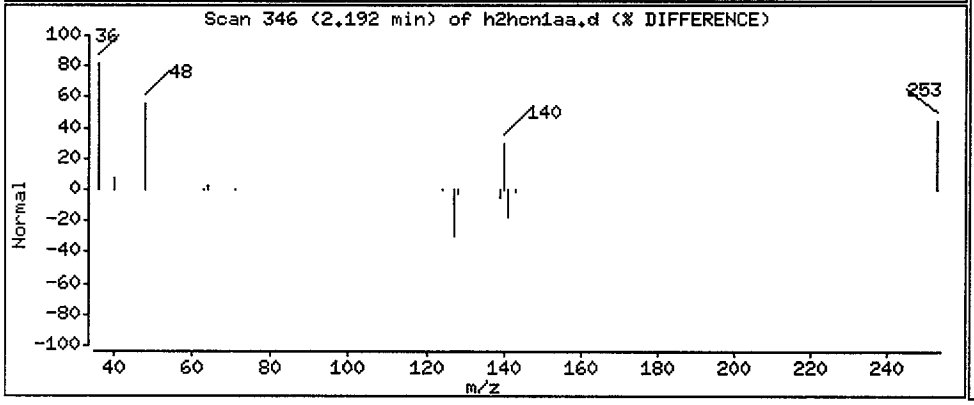












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

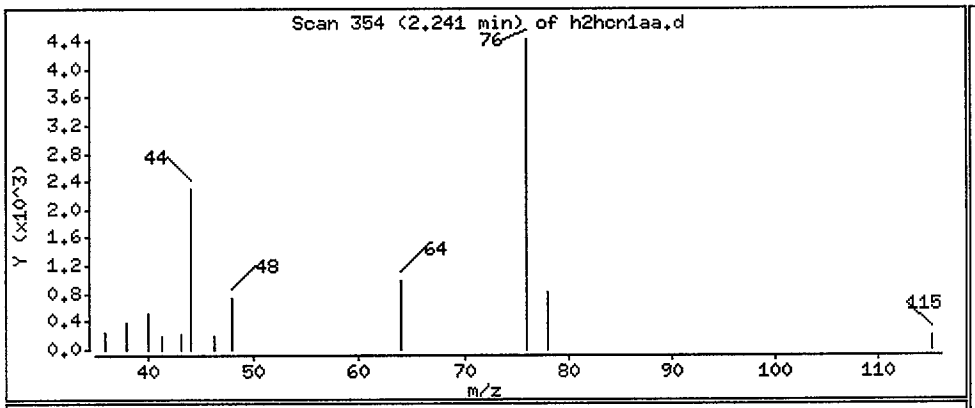
Operator: 22980

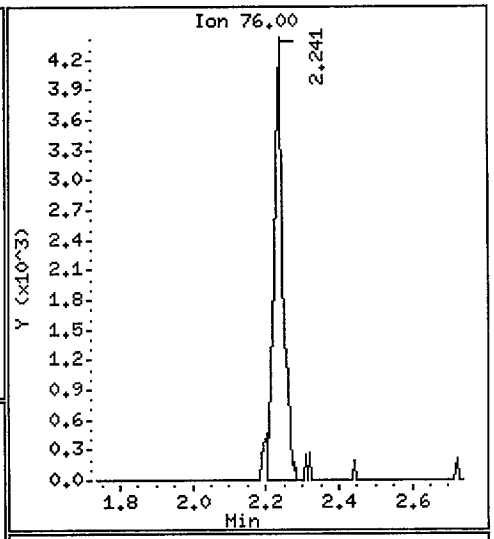
Column phase: J+W 624

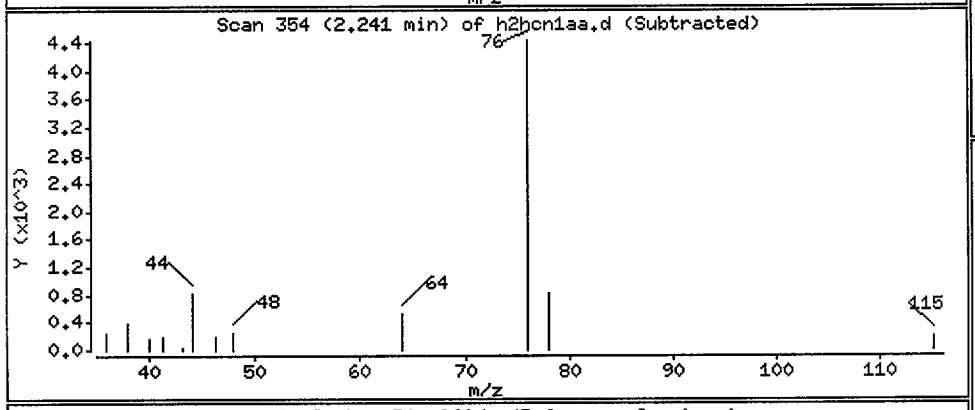
Column diameter: 0.18

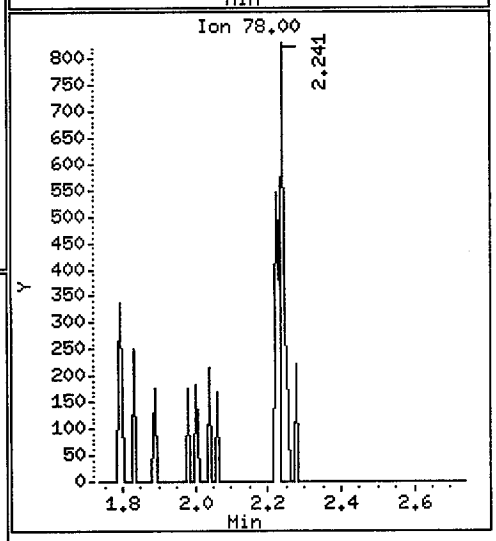
24 Carbon Disulfide

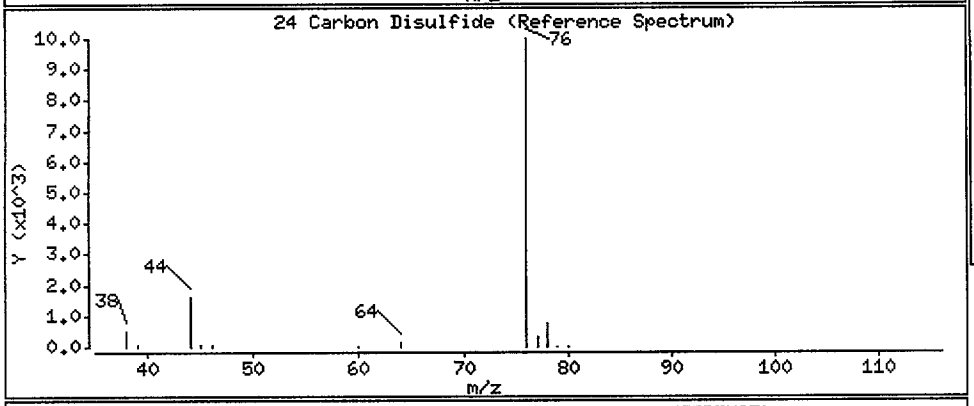
Concentration: 0.0031791 ug

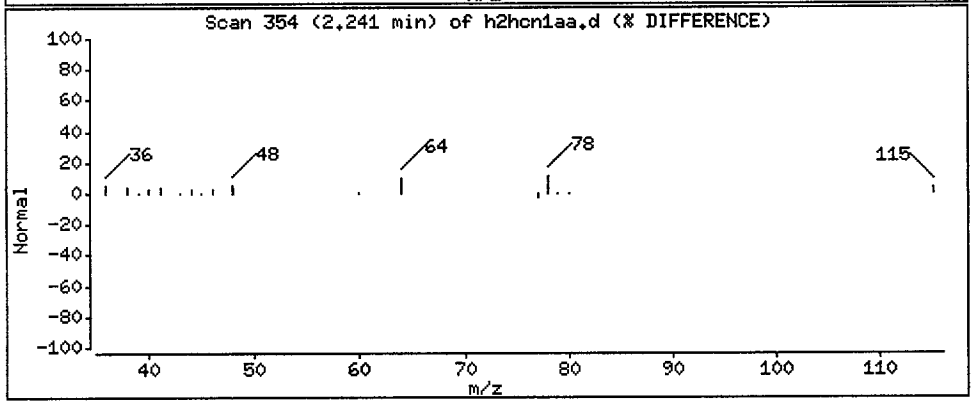












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

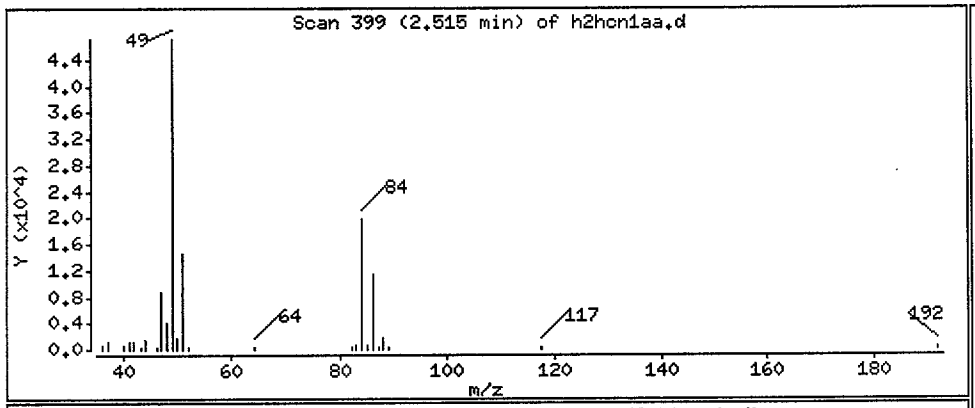
Operator: 22980

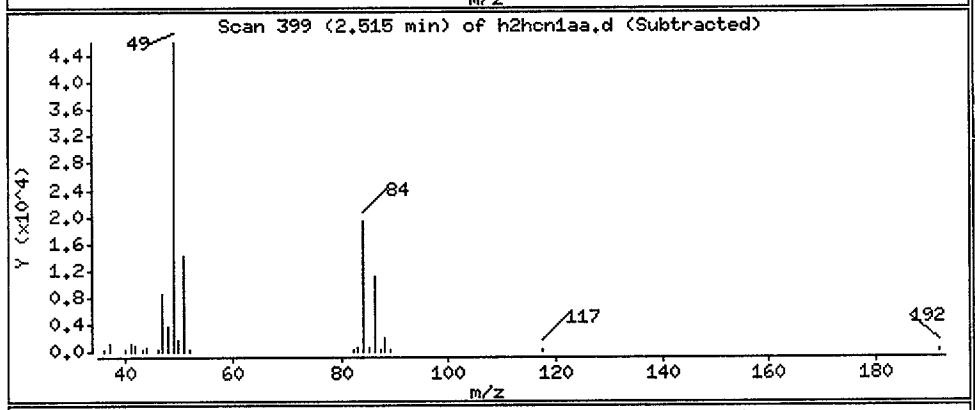
Column phase: J+W 624

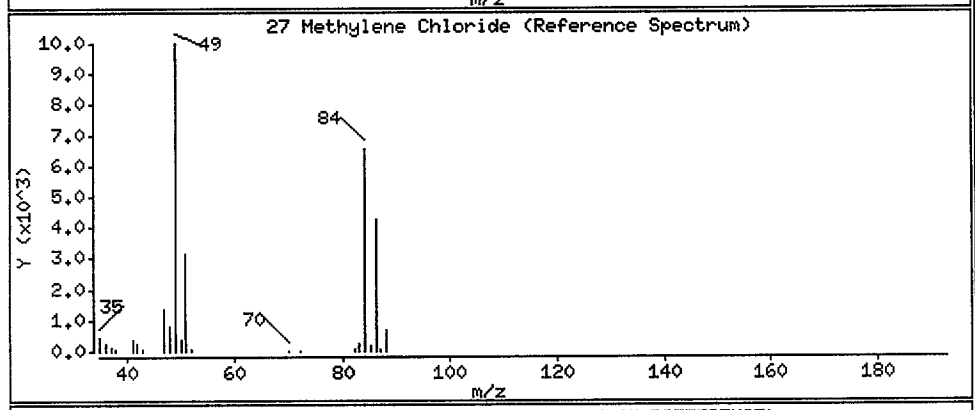
Column diameter: 0.18

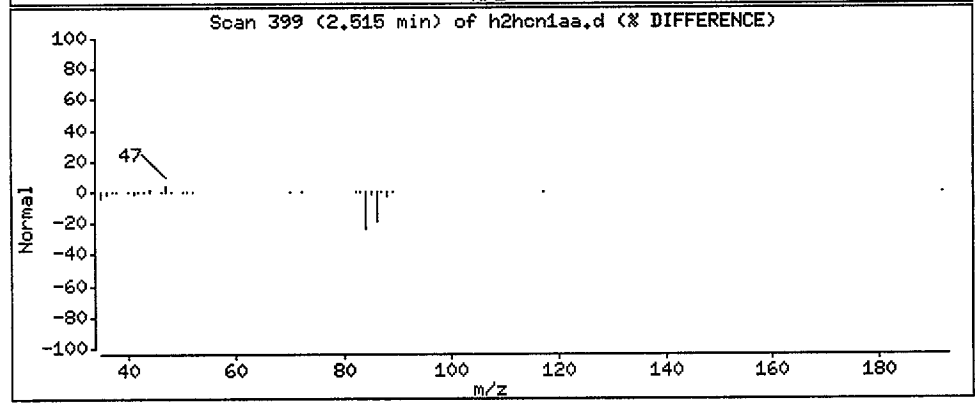
27 Methylene Chloride

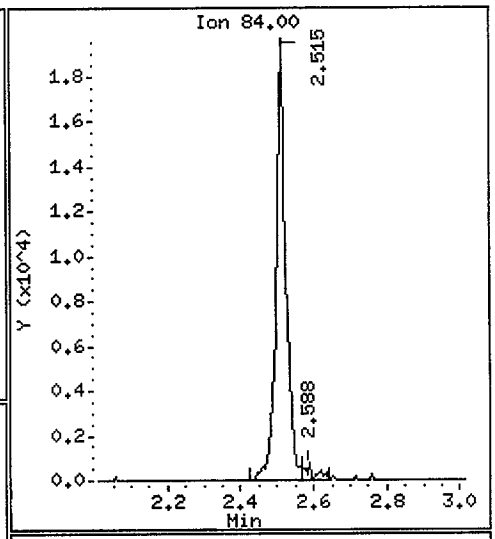
Concentration: 0.070633 ug

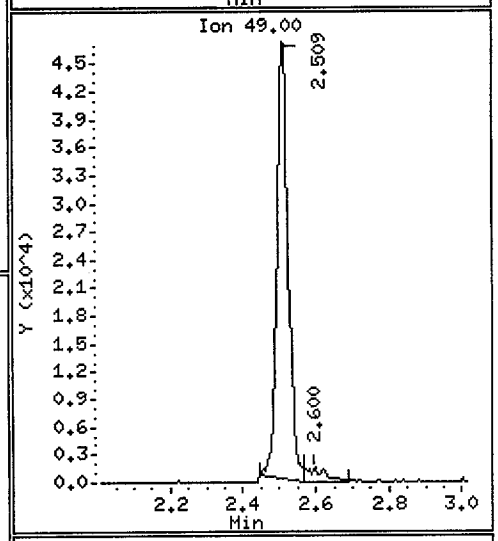


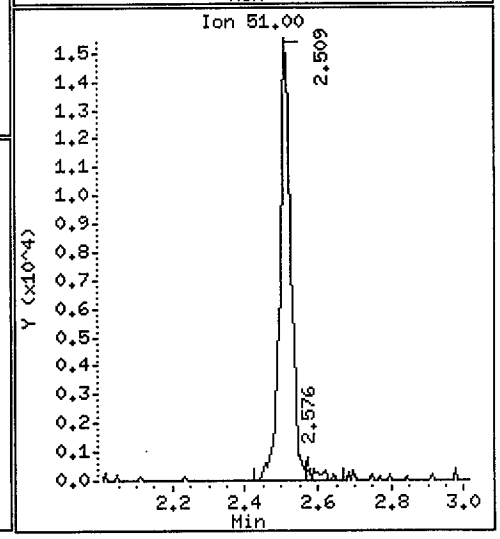












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

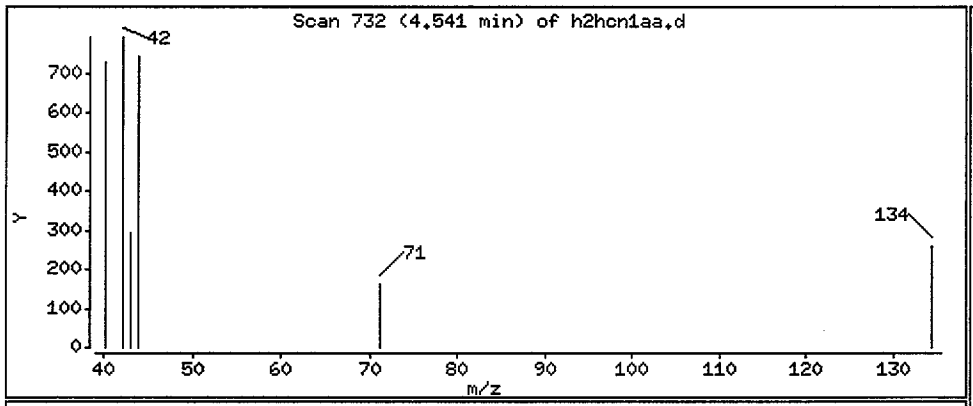
Operator: 22980

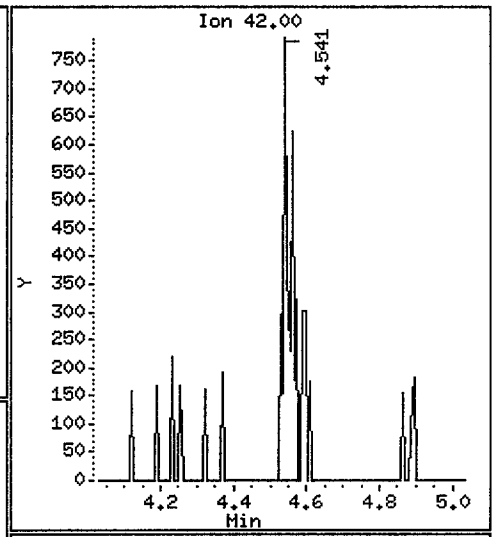
Column phase: J+W 624

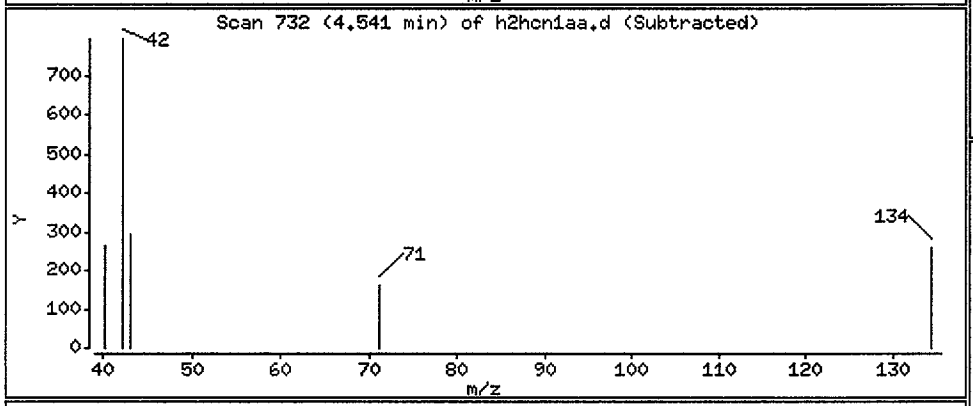
Column diameter: 0.18

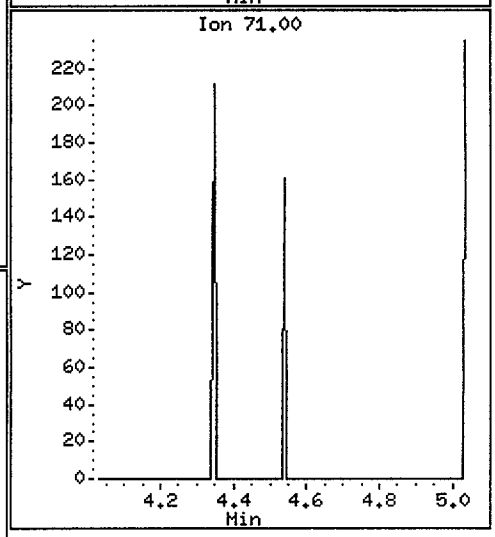
39 *THF

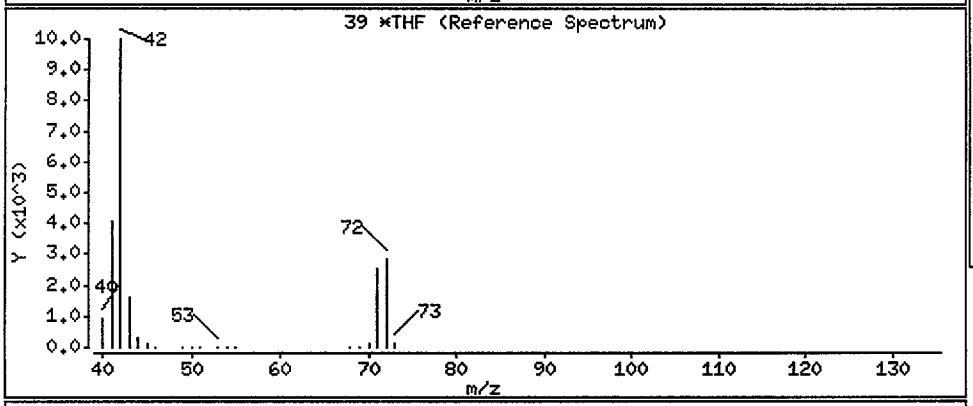
Concentration: 0.014690 ug

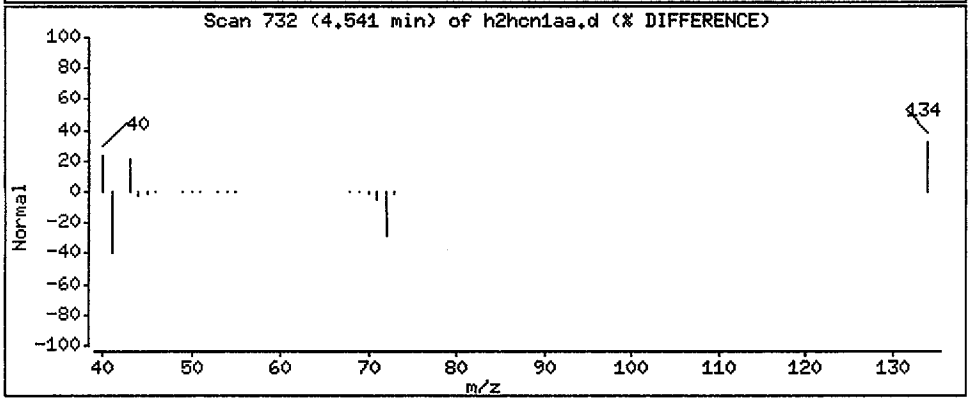












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

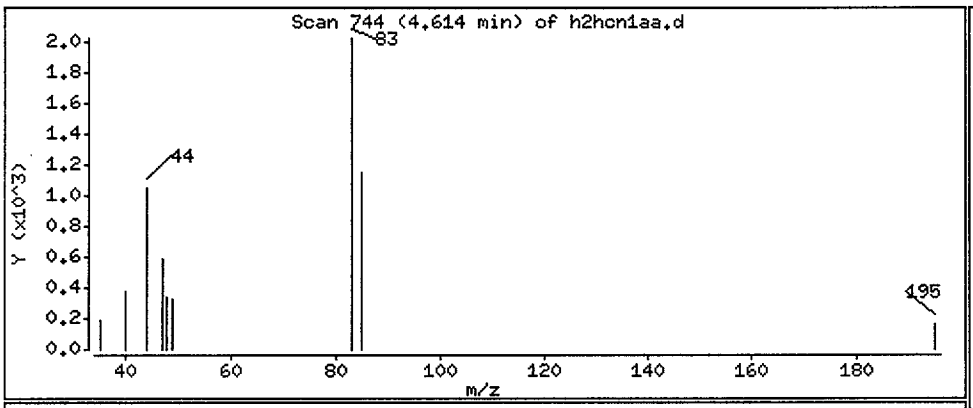
Operator: 22980

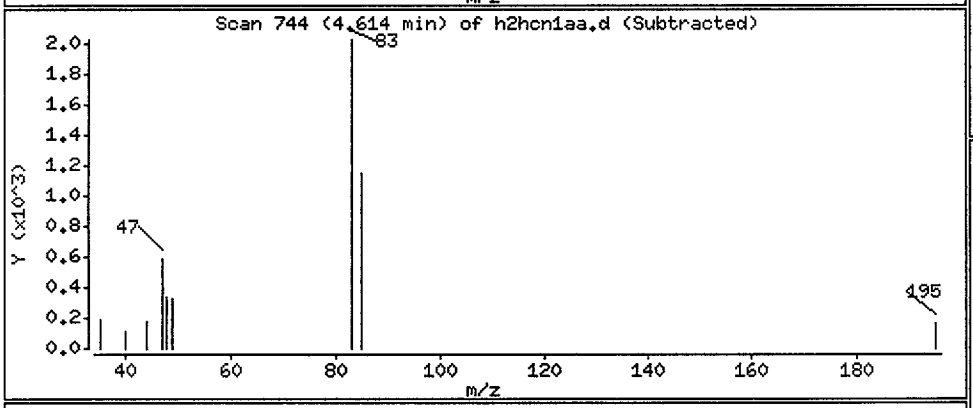
Column phase: J+W 624

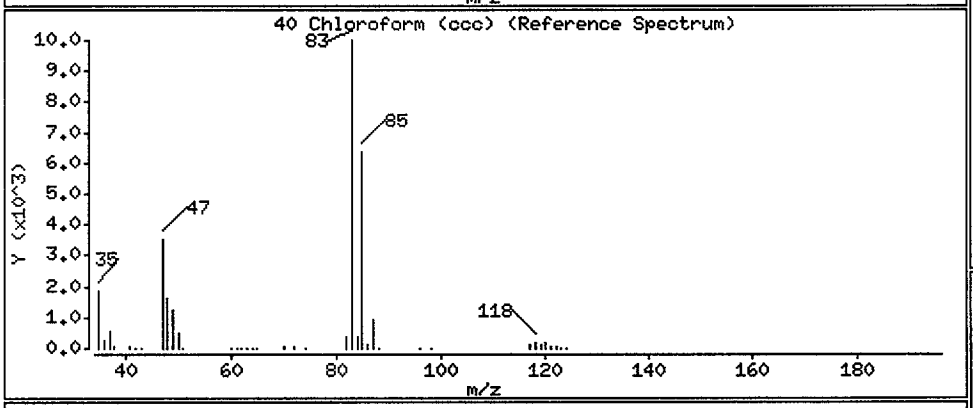
Column diameter: 0.18

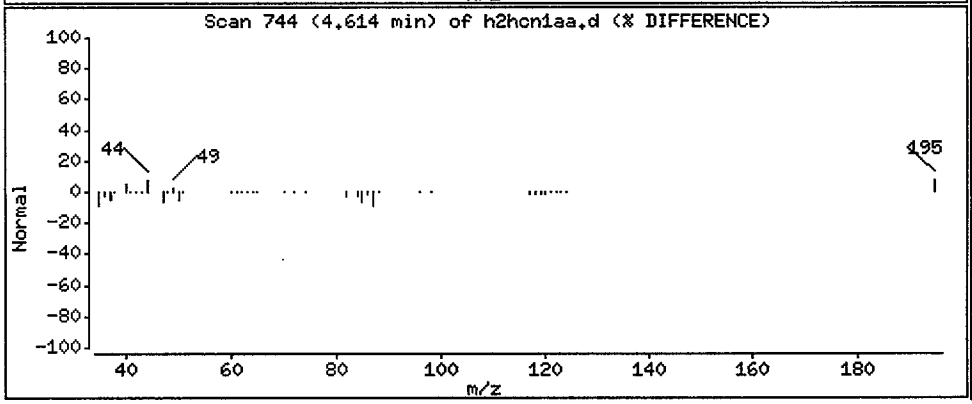
40 Chloroform (ccc)

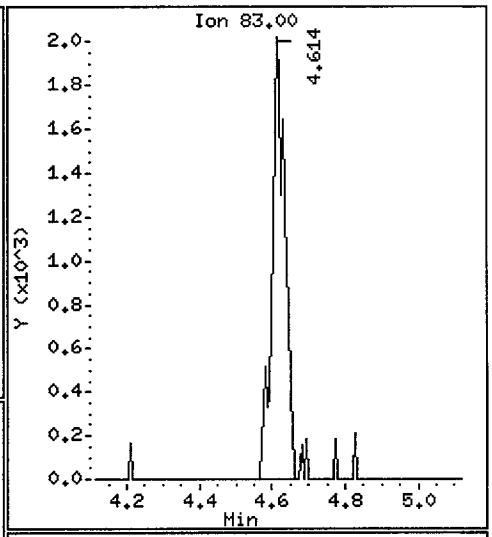
Concentration: 0.0044357 ug

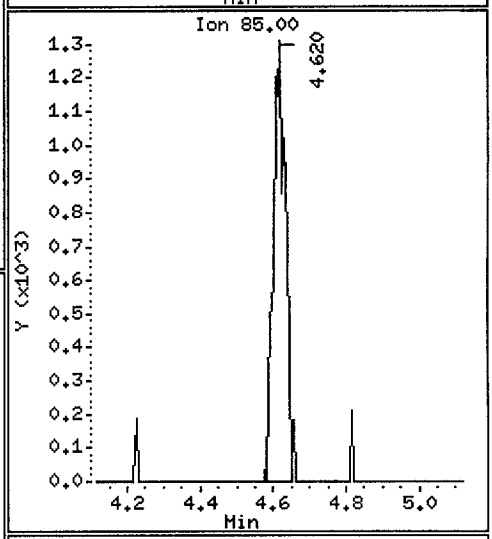


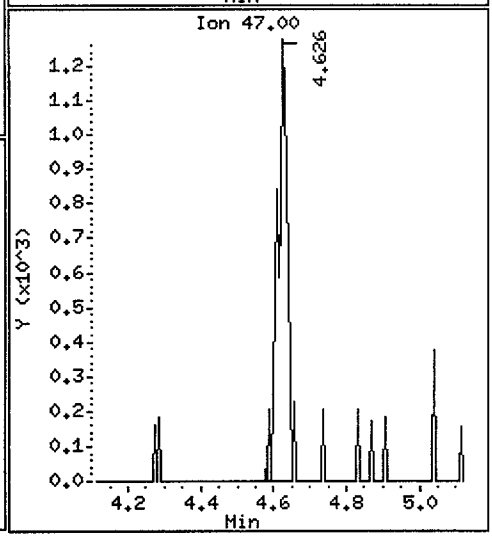












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

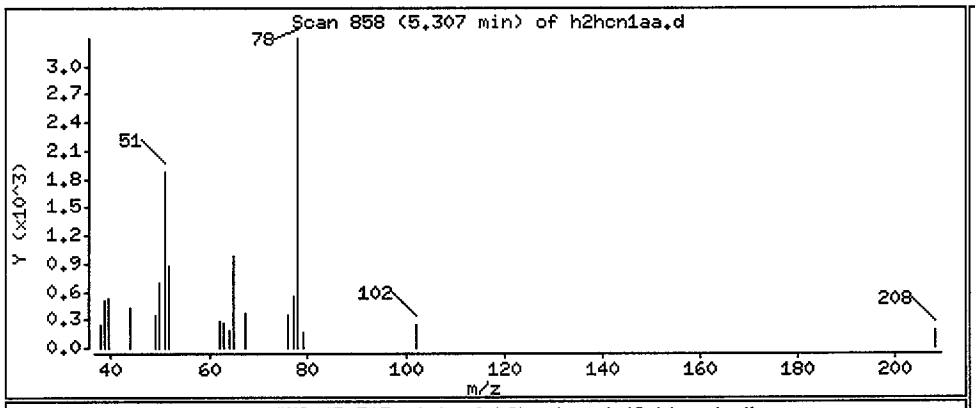
Operator: 22980

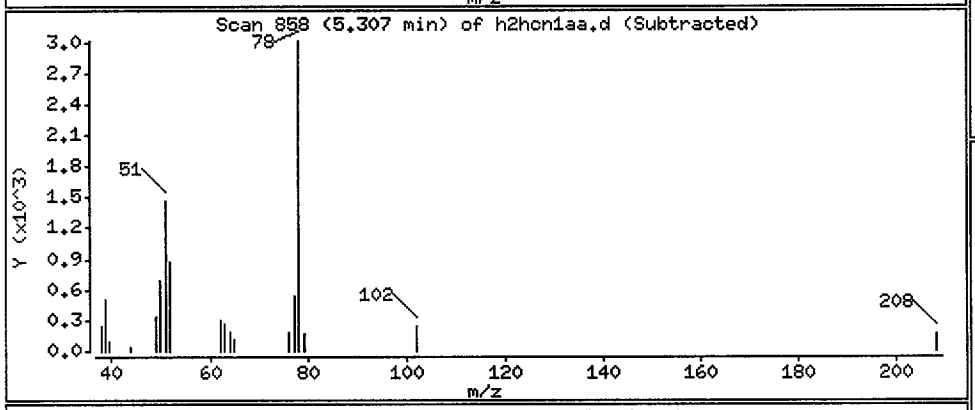
Column phase: J+W 624

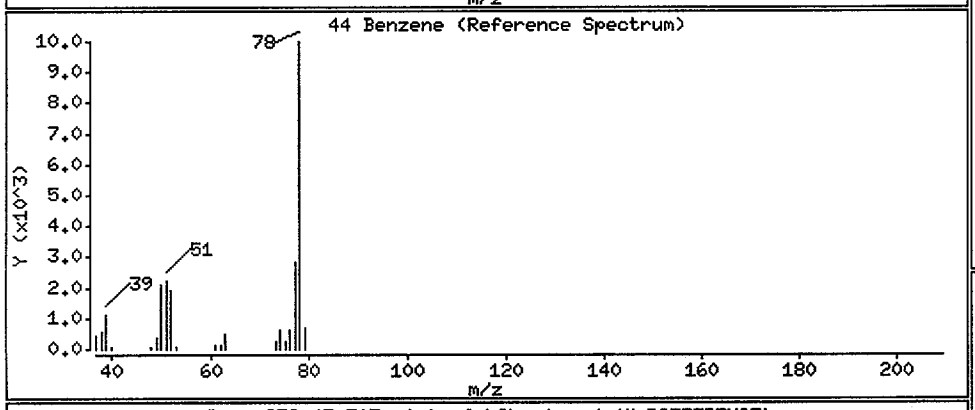
Column diameter: 0.18

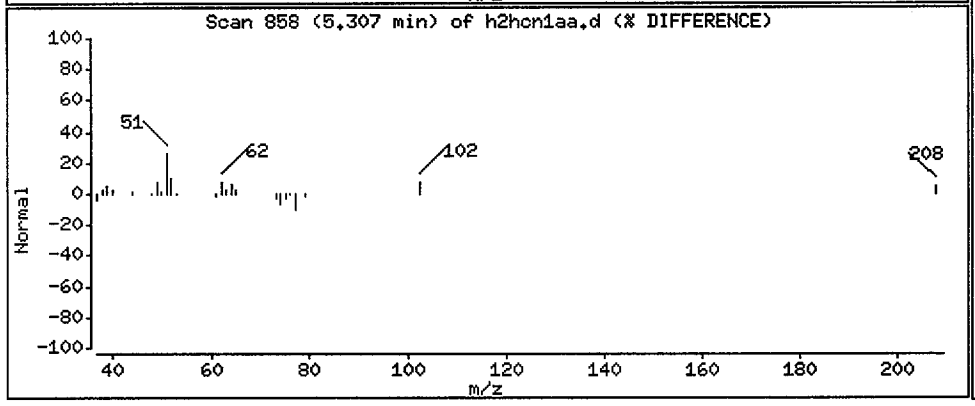
44 Benzene

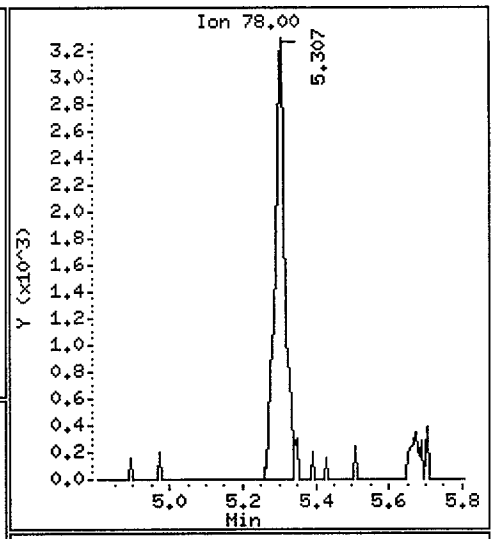
Concentration: 0.0020860 ug

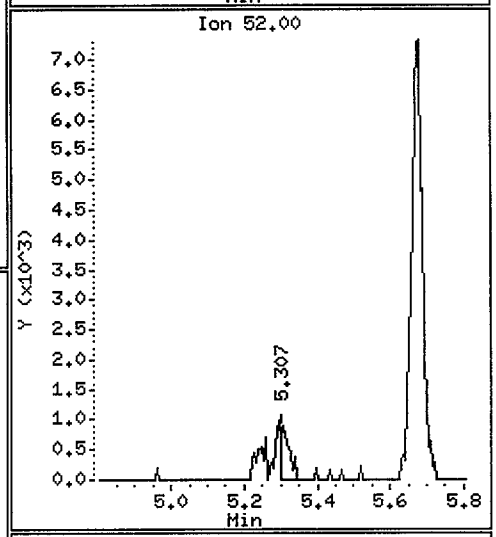


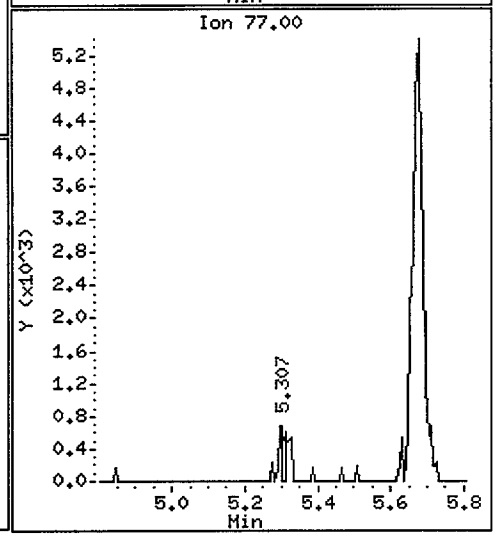












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

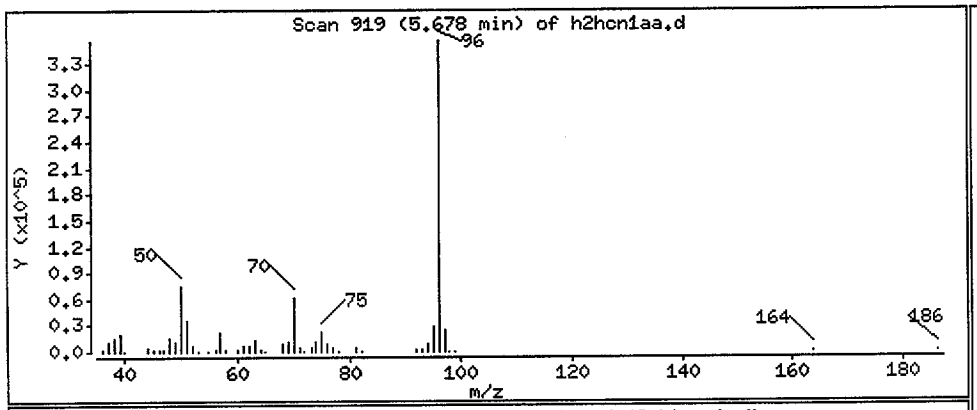
Operator: 22980

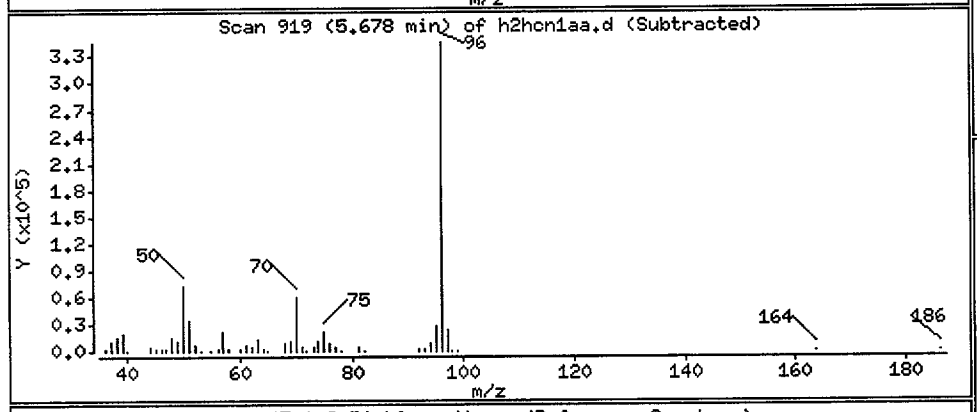
Column phase: J+W 624

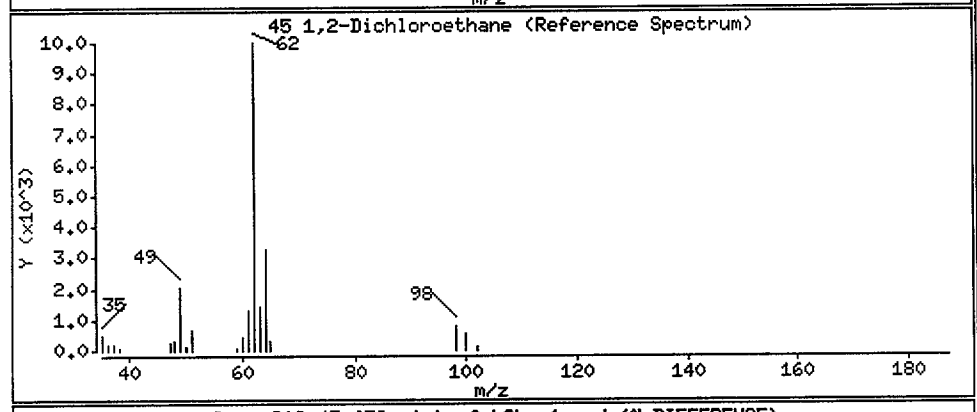
Column diameter: 0.18

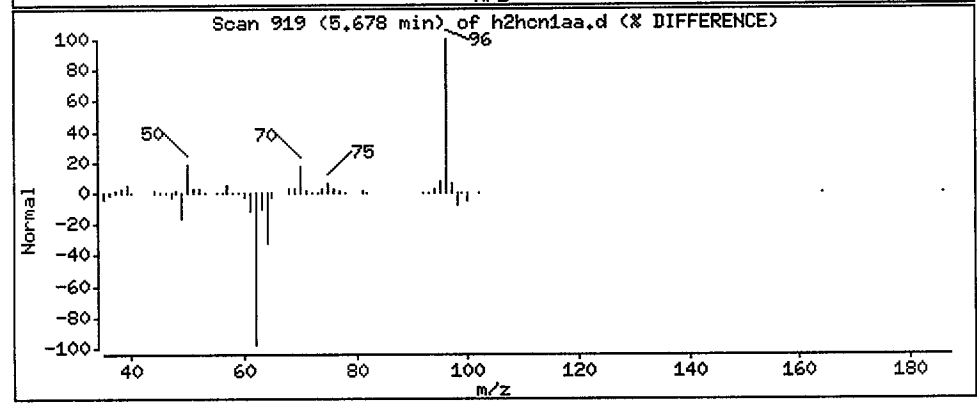
45 1,2-Dichloroethane

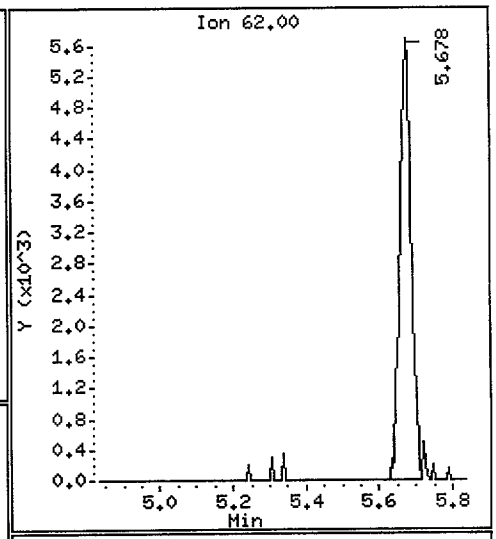
Concentration: 0.018719 ug

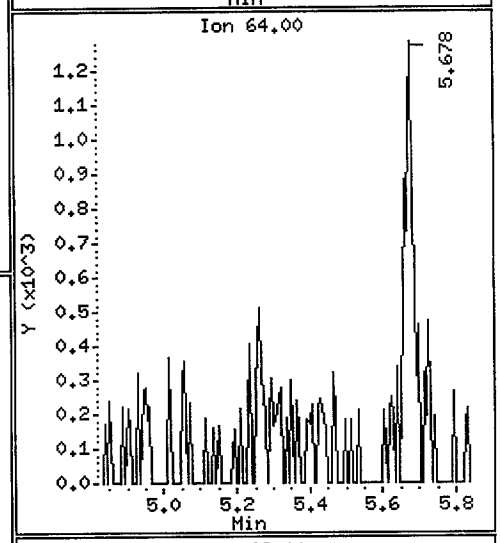


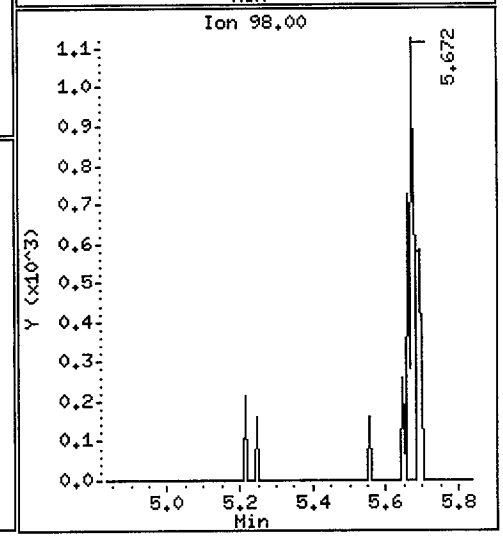












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

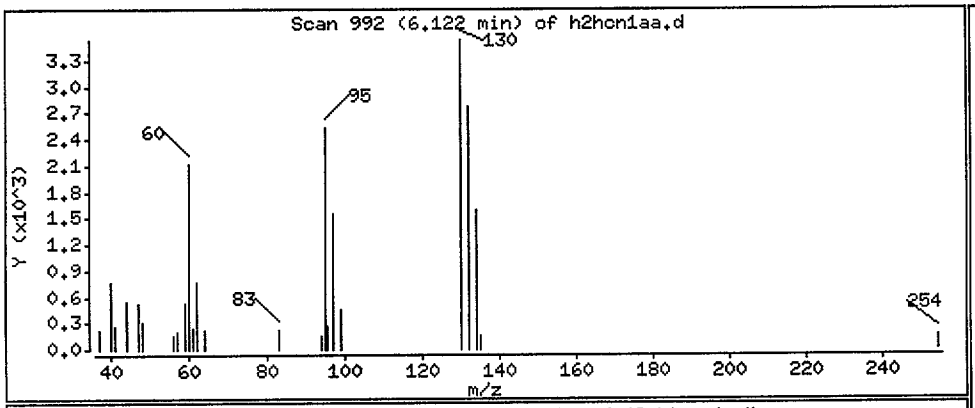
Operator: 22980

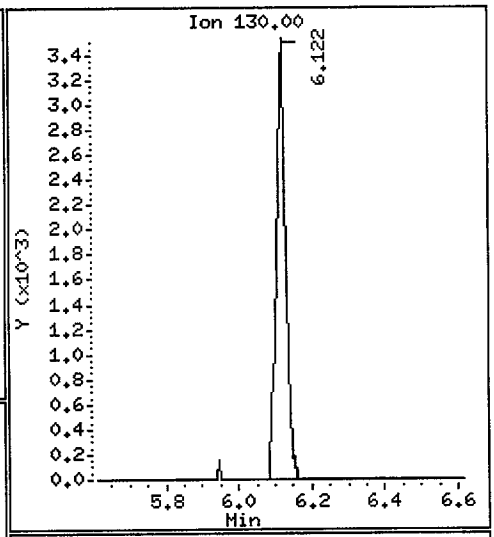
Column phase: J+W 624

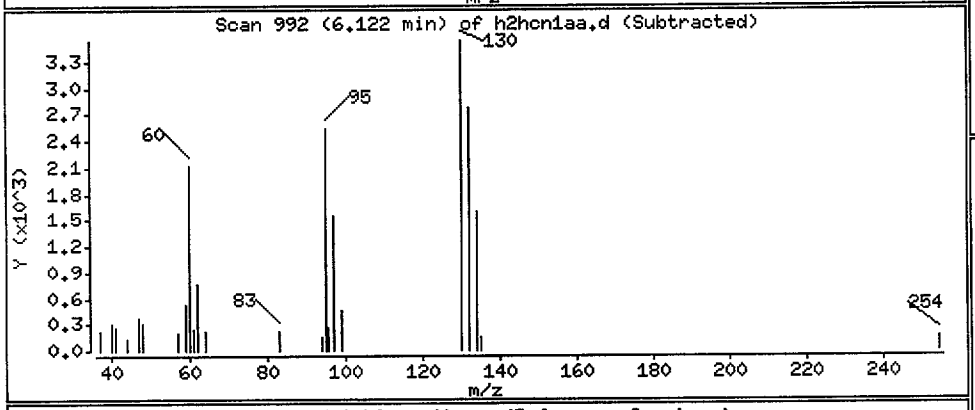
Column diameter: 0.18

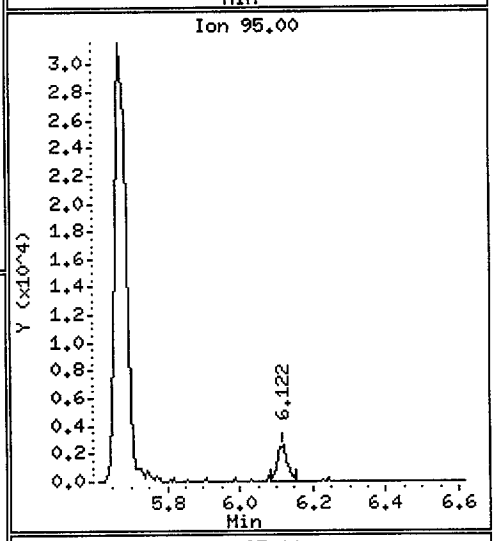
46 Trichloroethene

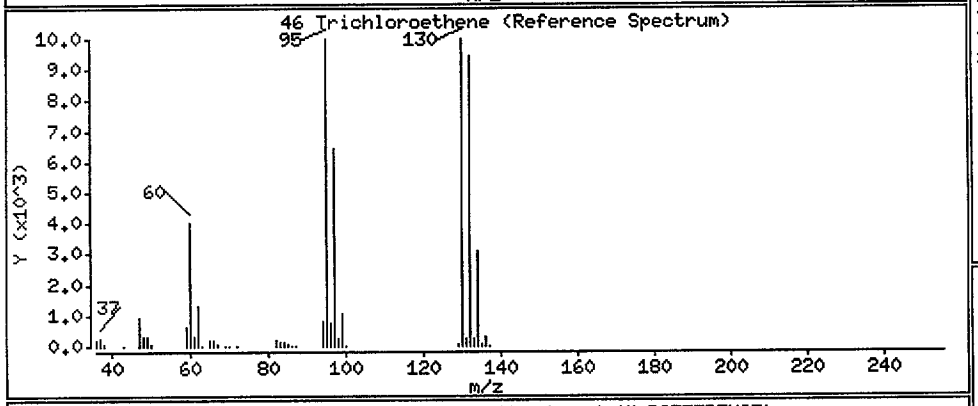
Concentration: 0.0071512 ug

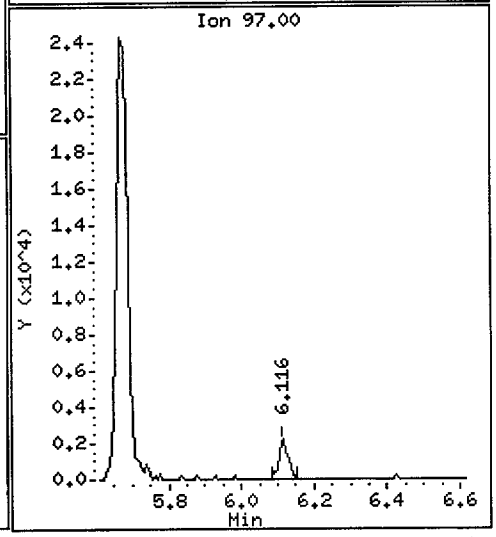


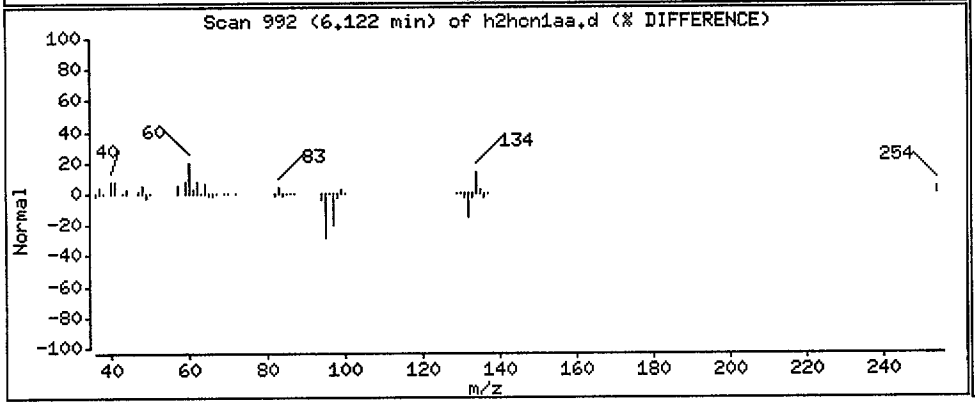












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

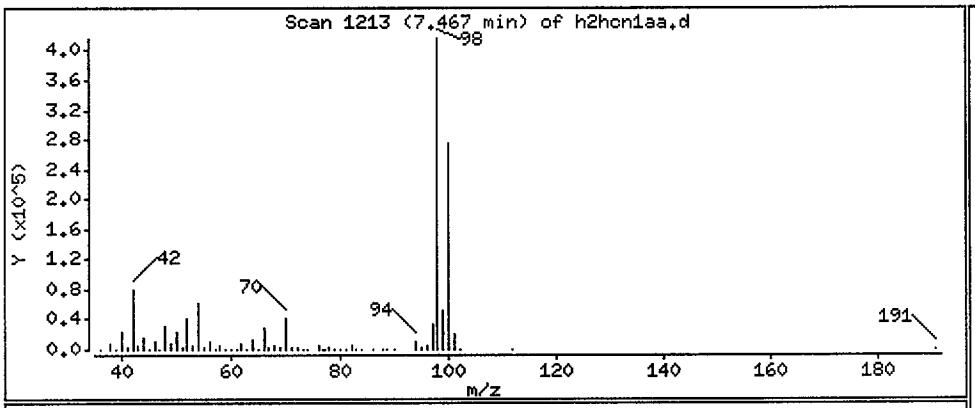
Operator: 22980

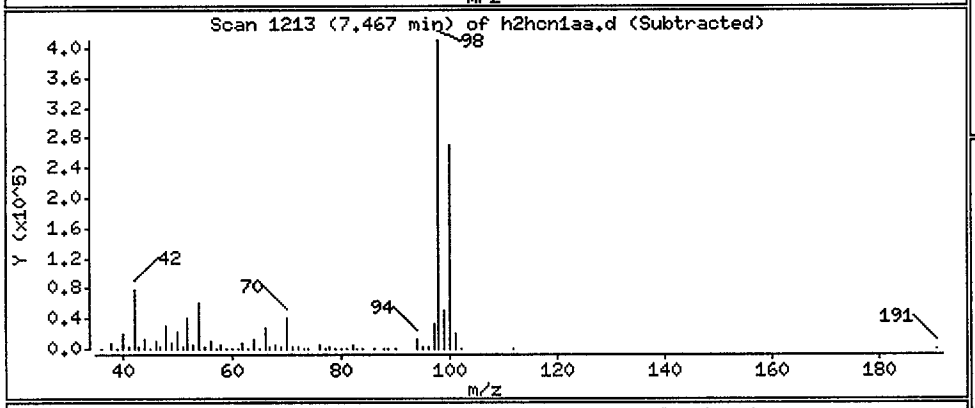
Column phase: J+W 624

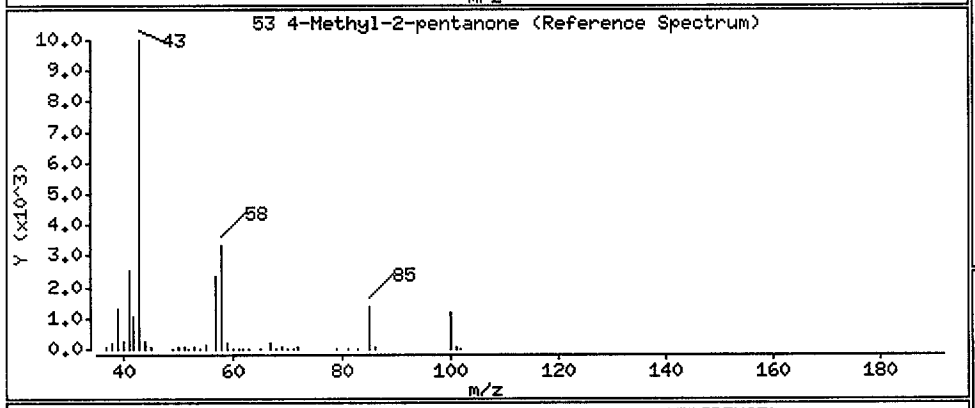
Column diameter: 0.18

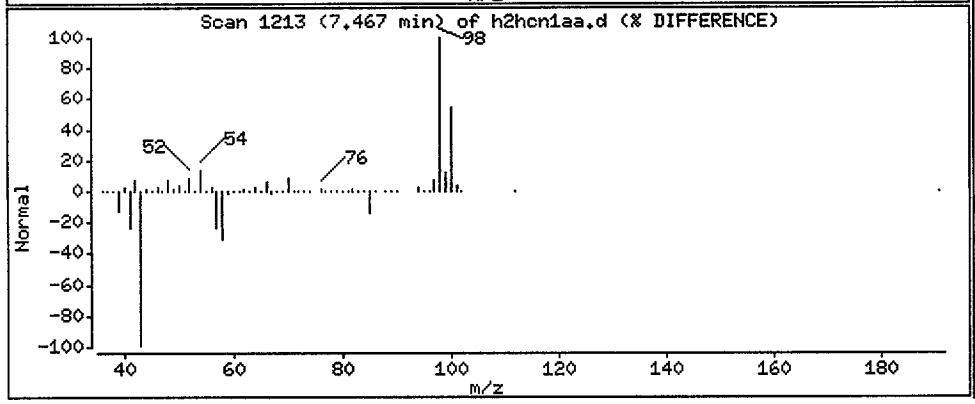
53 4-Methyl-2-pentanone

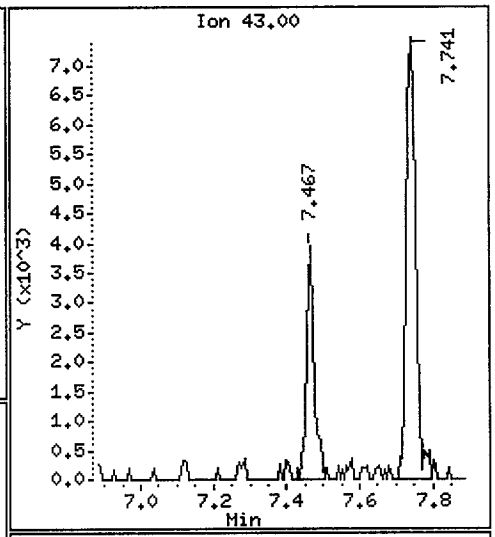
Concentration: 0.022256 ug

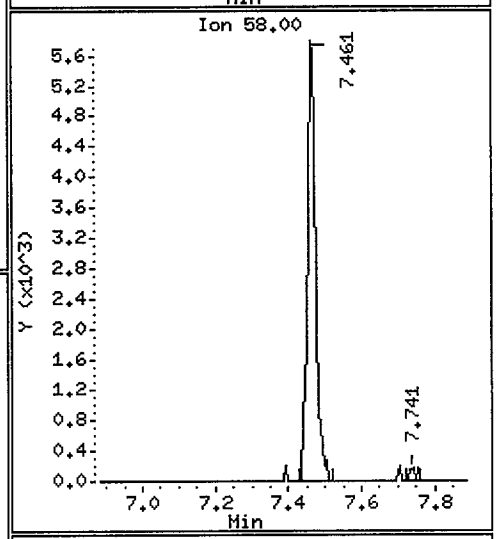


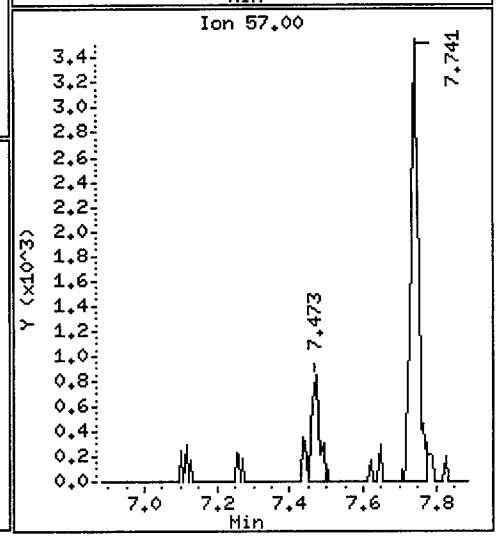












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

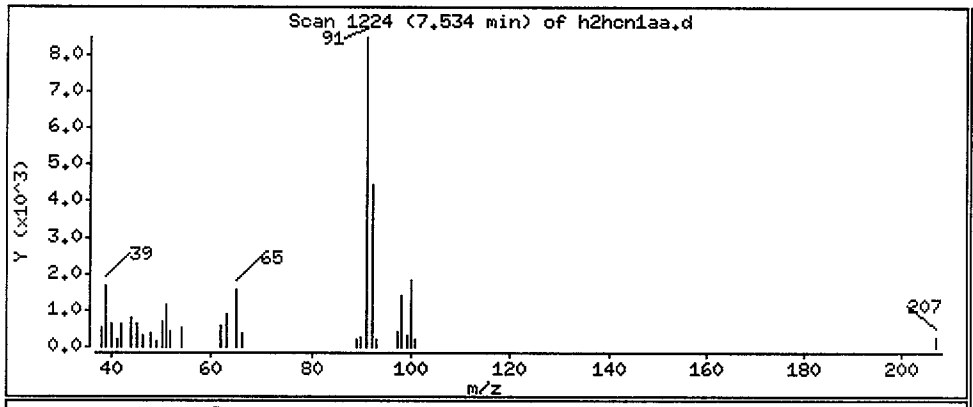
Operator: 22980

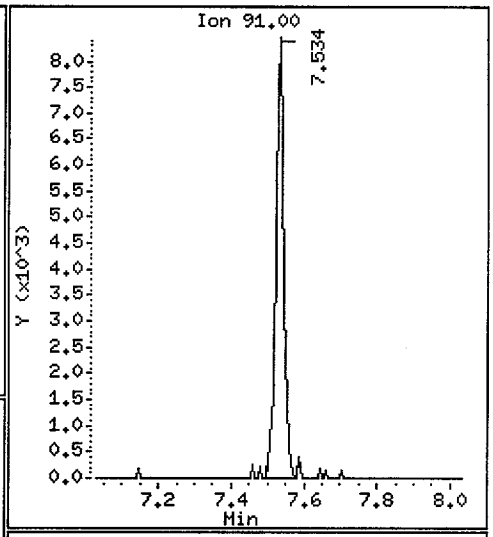
Column phase: J+W 624

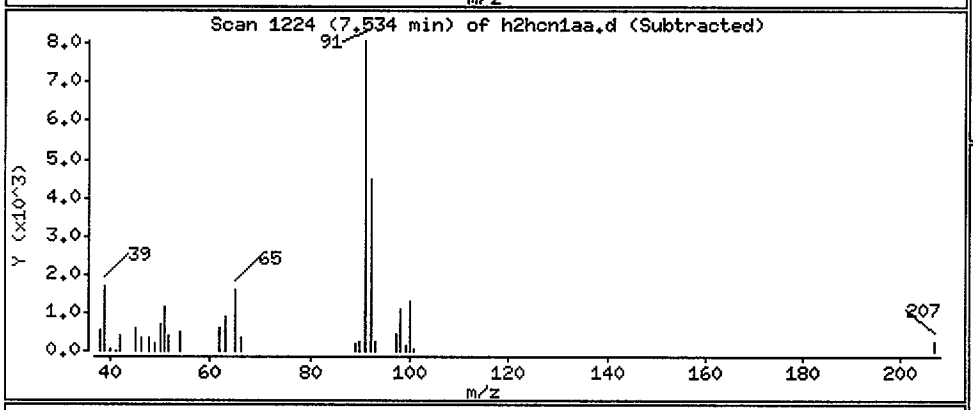
Column diameter: 0.18

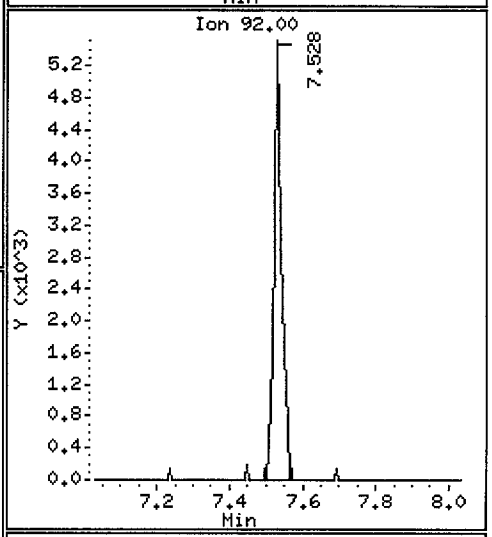
54 Toluene (ccc)

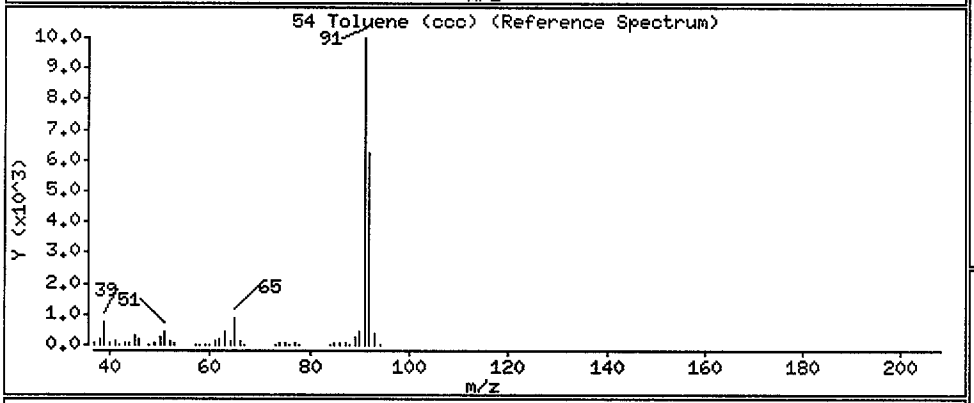
Concentration: 0.0032940 ug

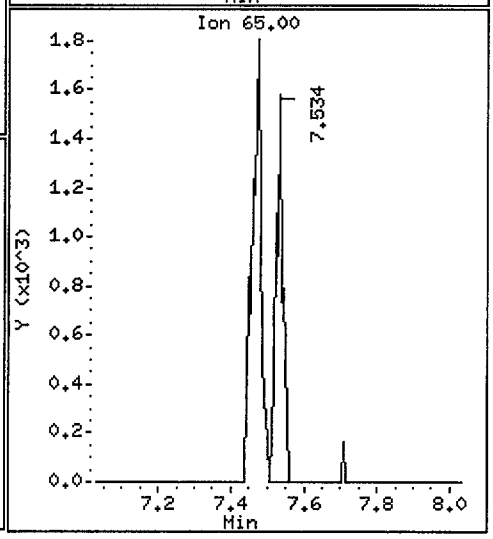


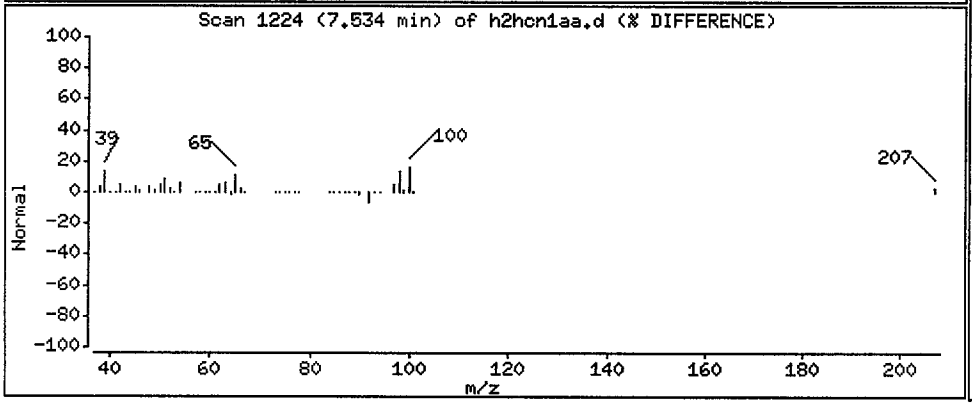












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

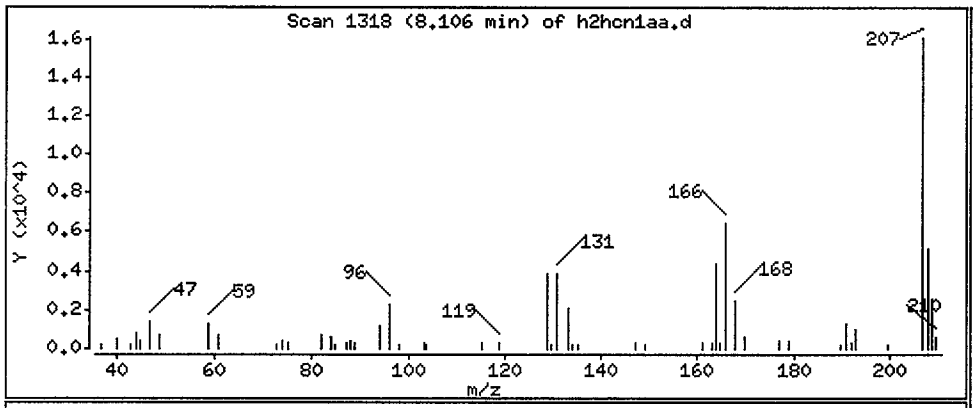
Operator: 22980

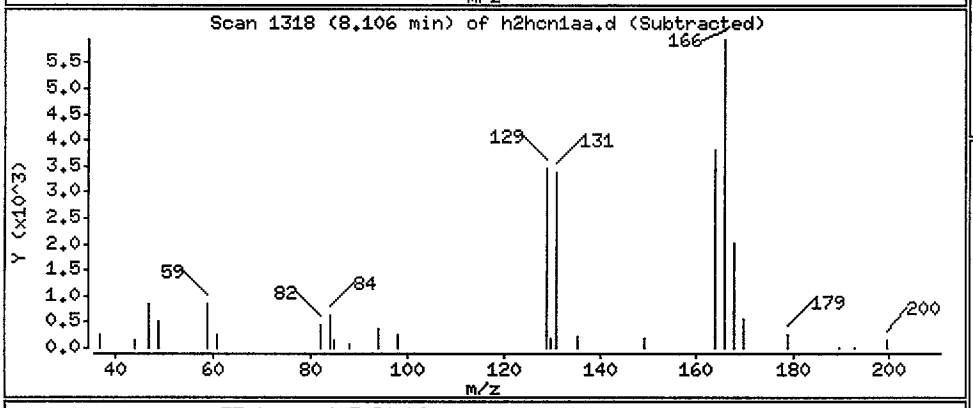
Column phase: J+W 624

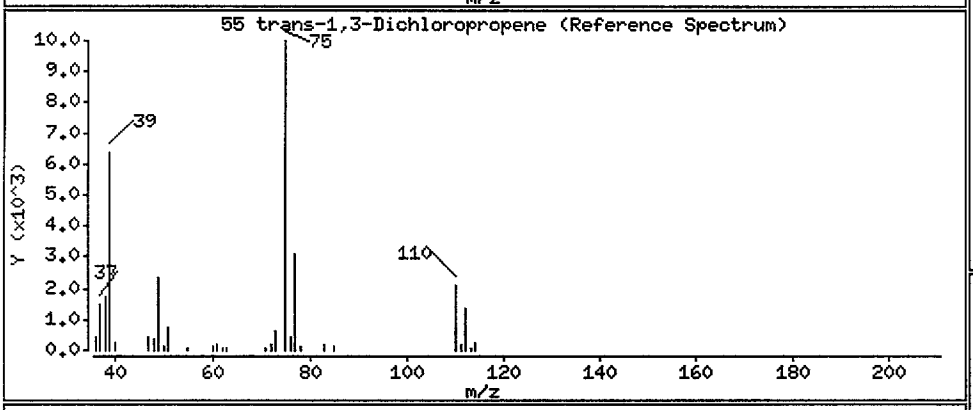
Column diameter: 0.18

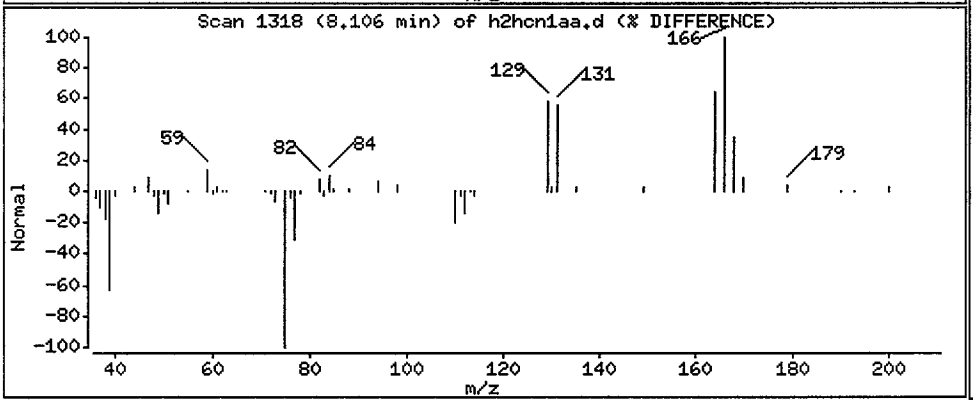
55 trans-1,3-Dichloropropene

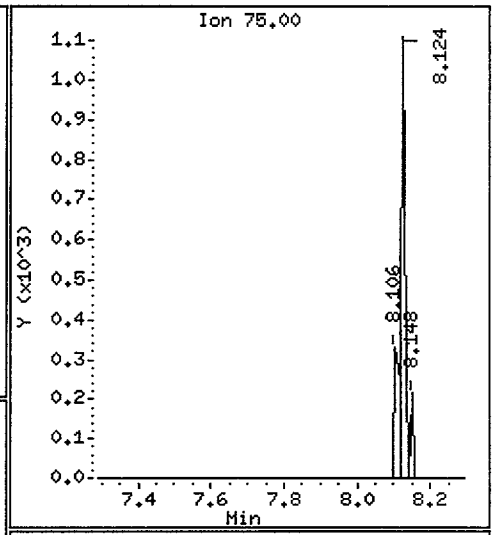
Concentration: 0.016127 ug

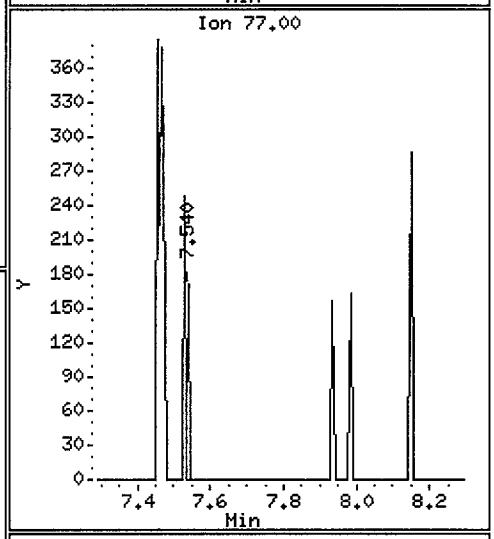


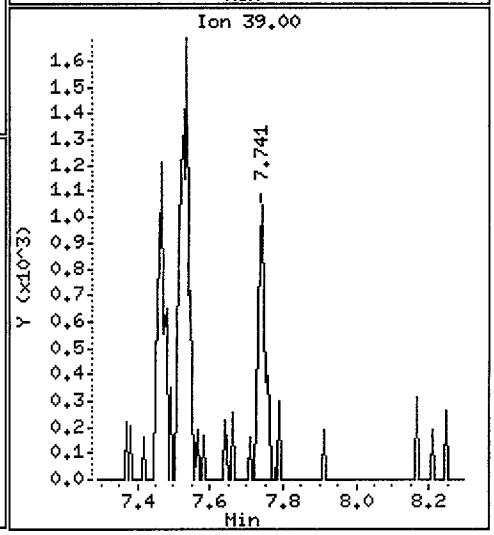












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

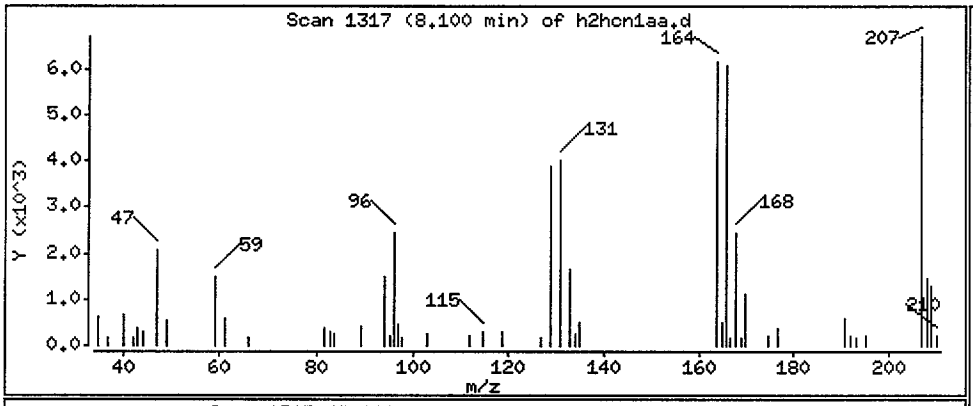
Operator: 22980

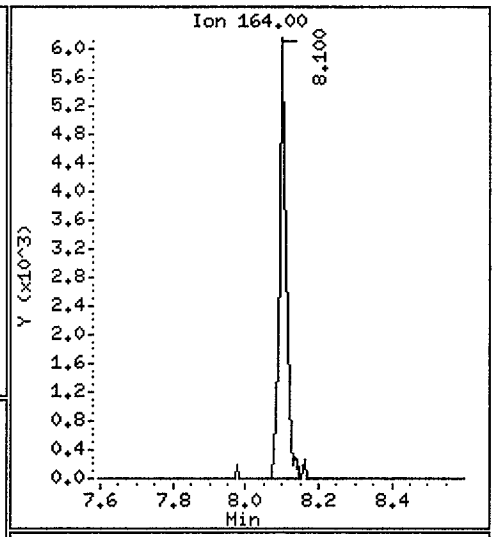
Column phase: J+W 624

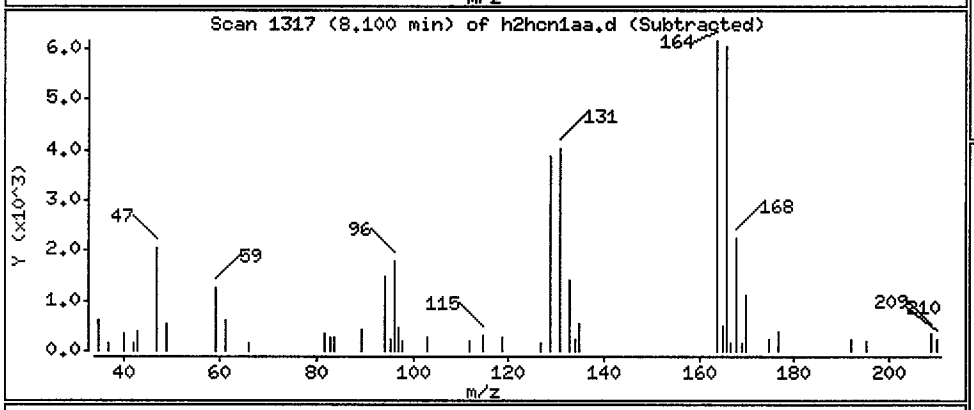
Column diameter: 0.18

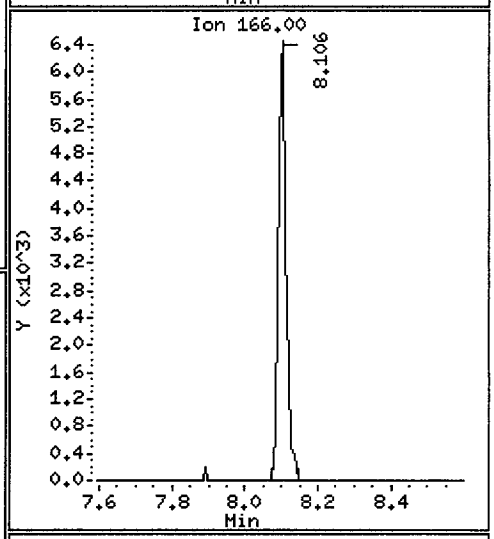
58 Tetrachloroethene

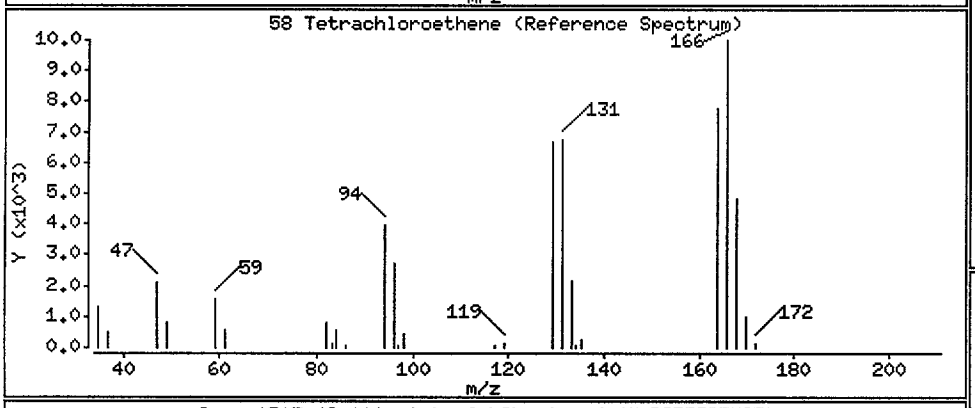
Concentration: 0.0097195 ug

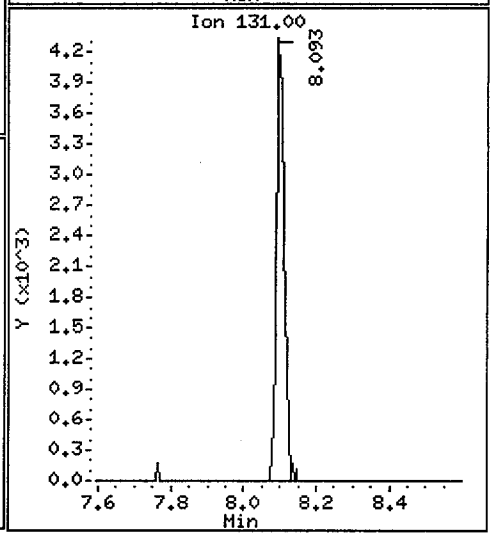


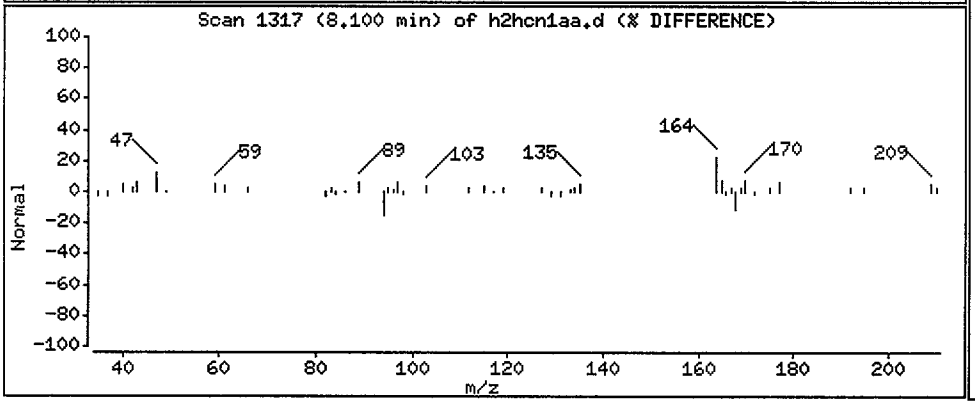












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

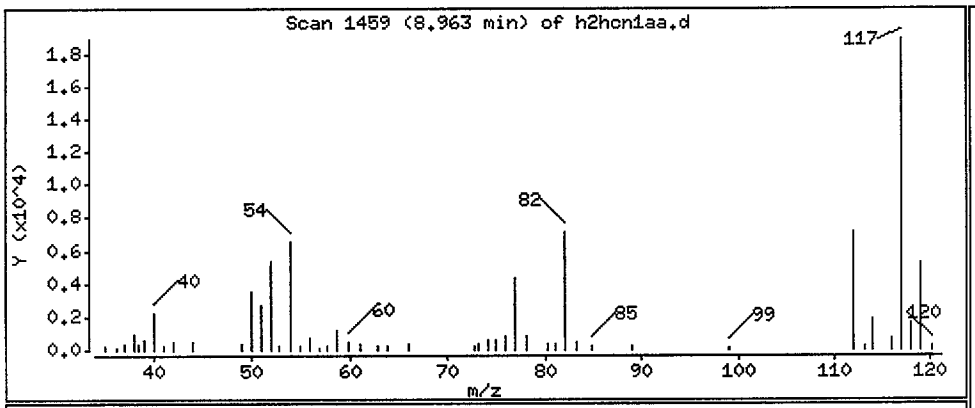
Operator: 22980

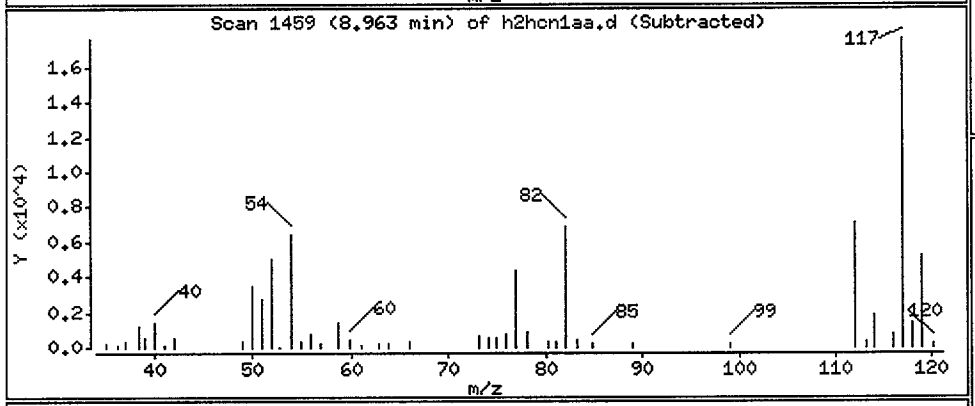
Column phase: J+W 624

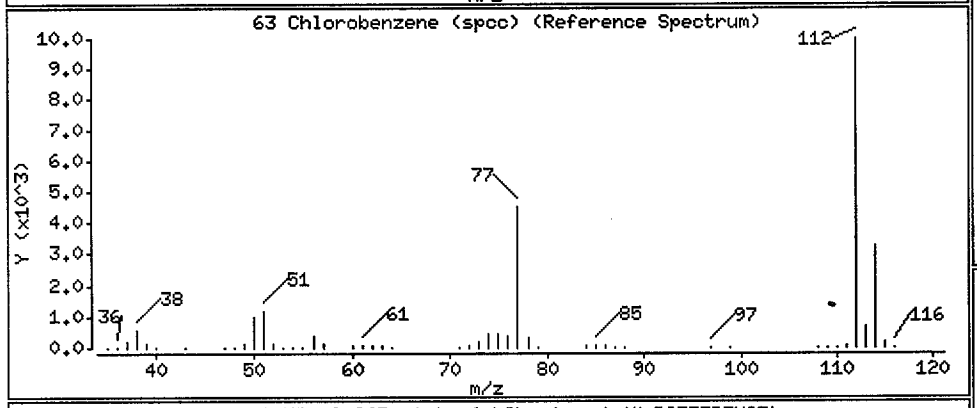
Column diameter: 0.18

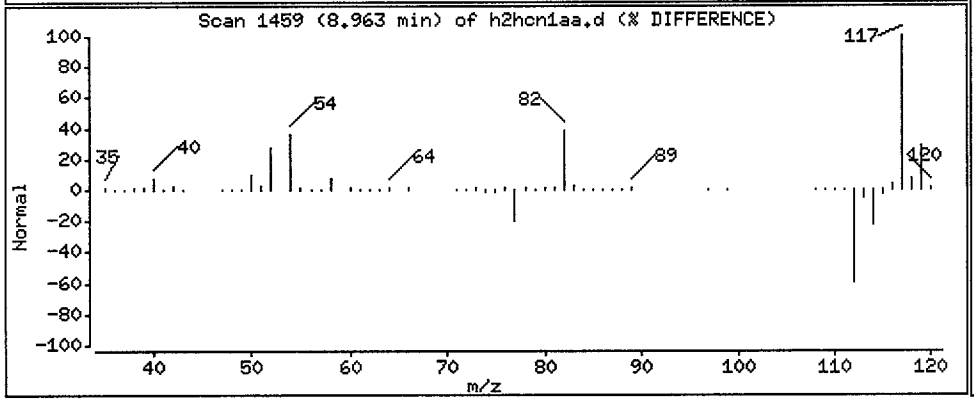
63 Chlorobenzene (spcc)

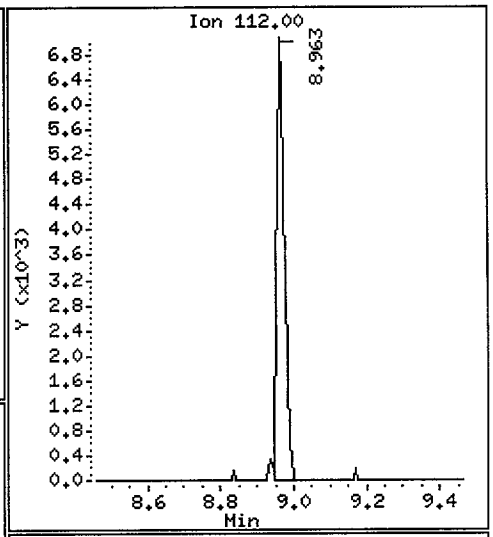
Concentration: 0.0047845 ug

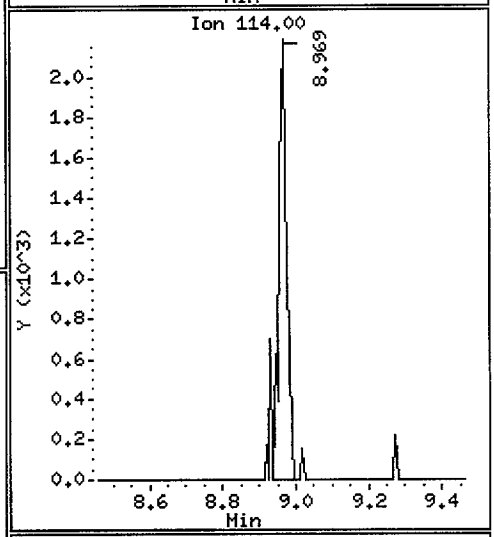


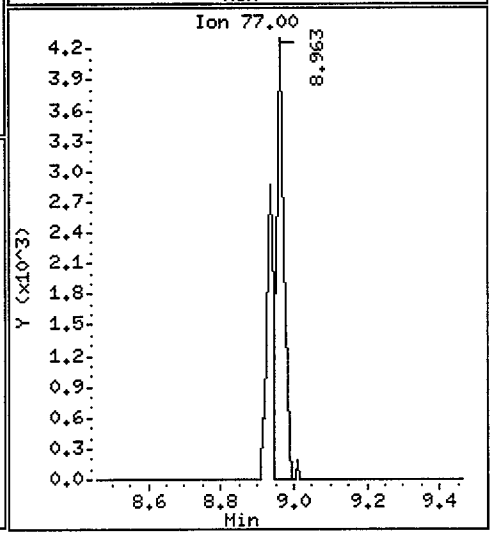












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

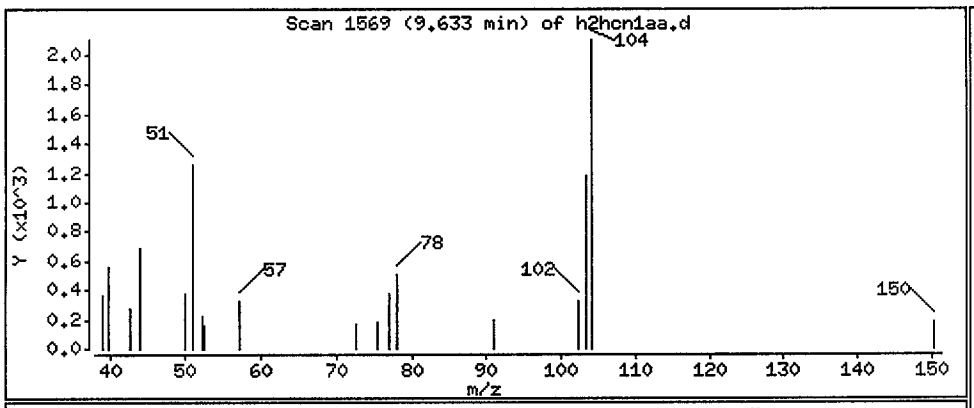
Operator: 22980

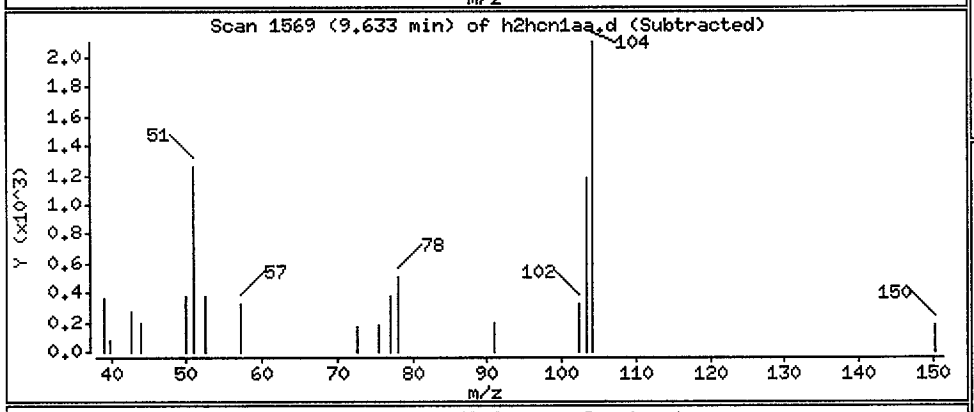
Column phase: J+W 624

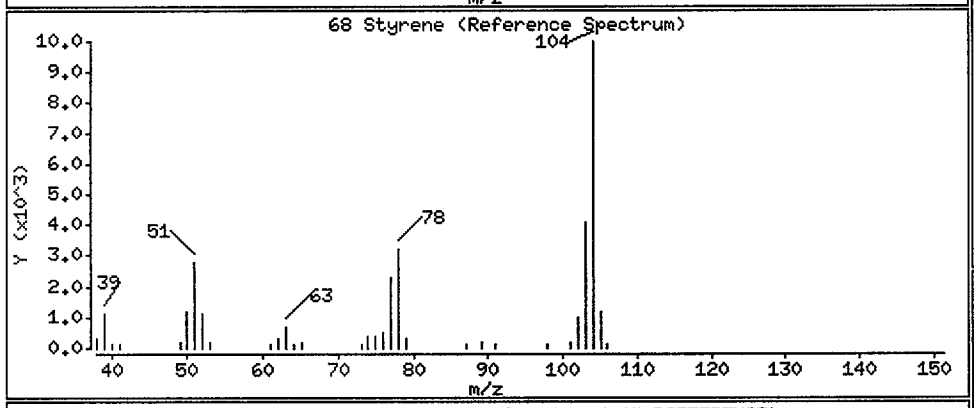
Column diameter: 0.18

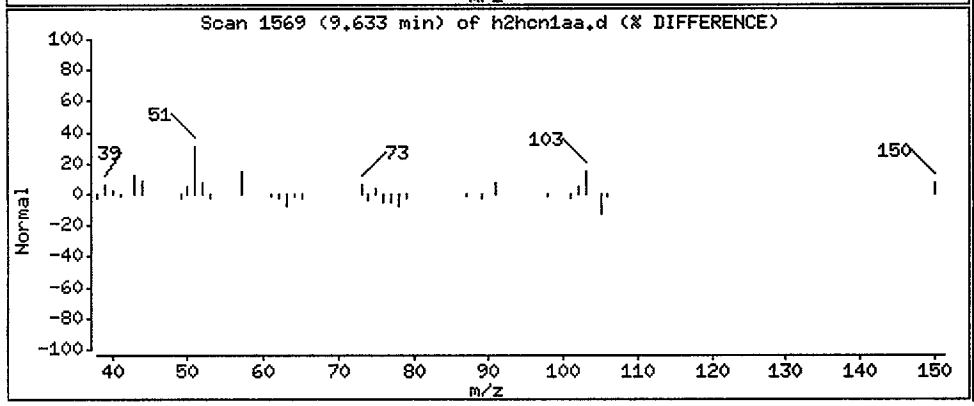
68 Styrene

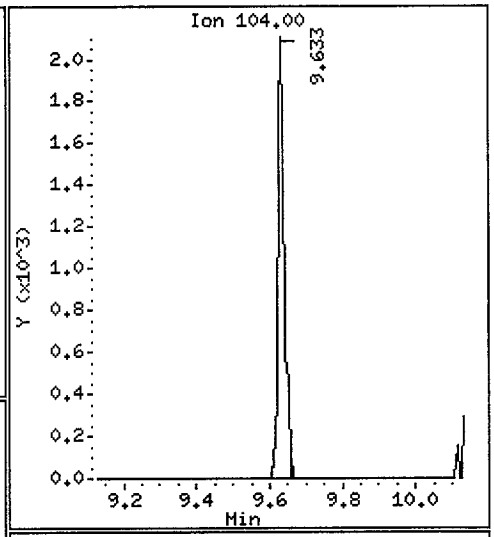
Concentration: 0.0012138 ug

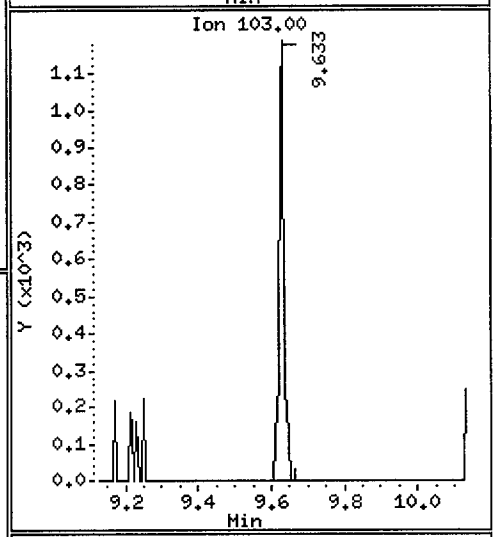


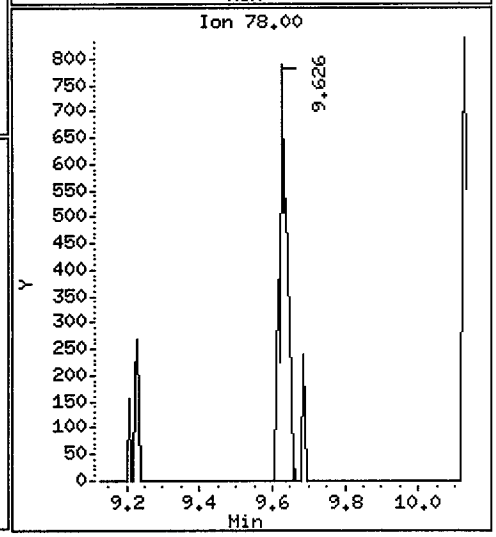












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

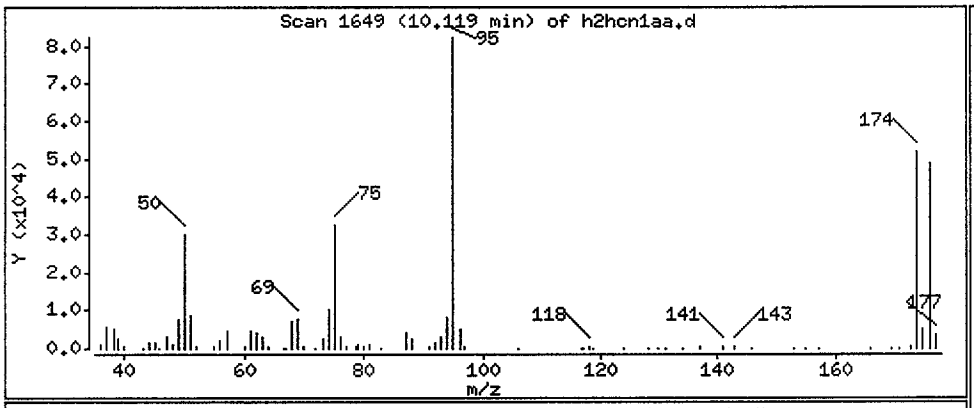
Operator: 22980

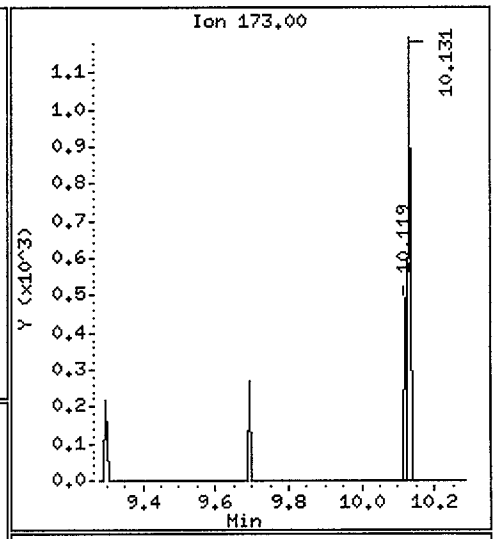
Column phase: J+W 624

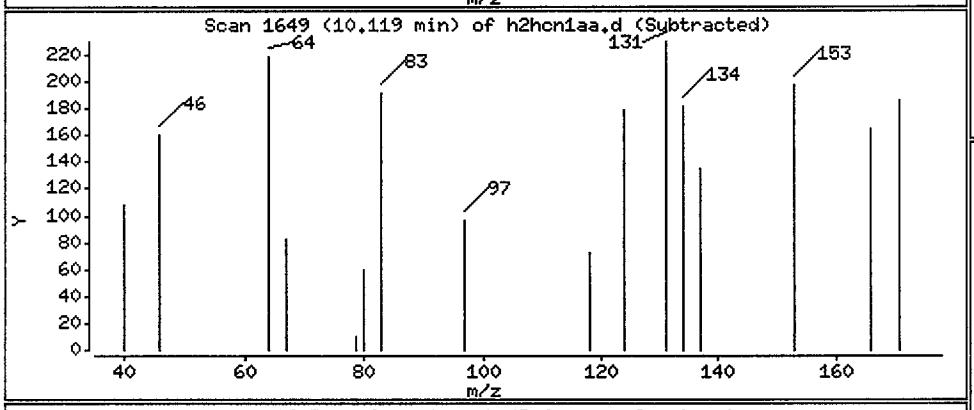
Column diameter: 0.18

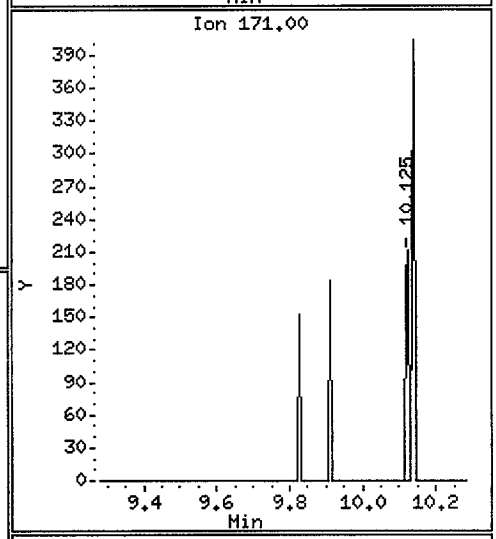
69 Bromoform (spcc)

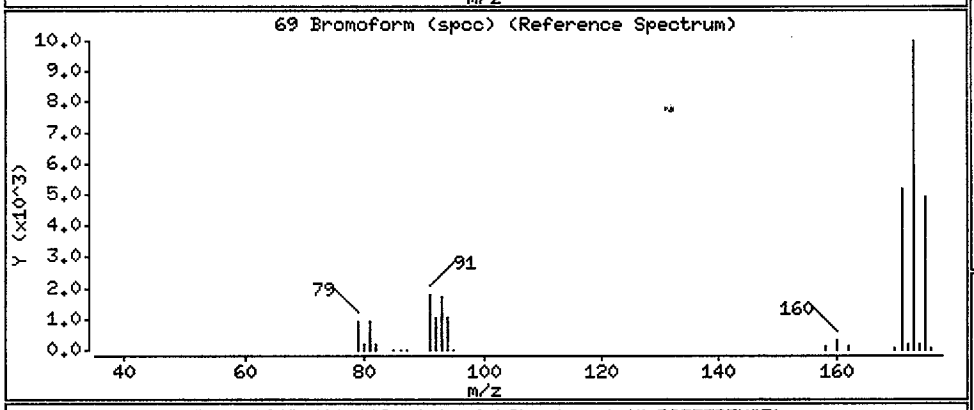
Concentration: 0.021644 ug

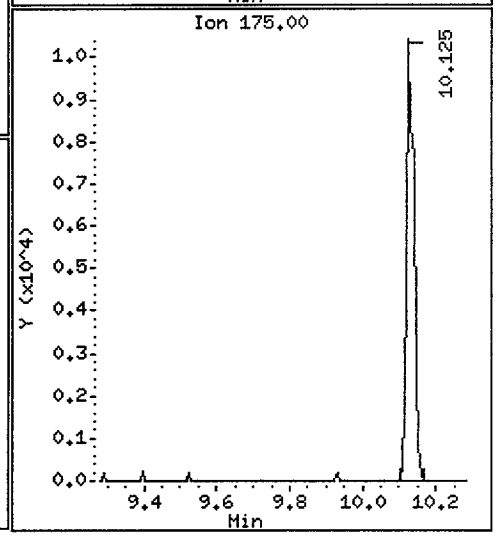


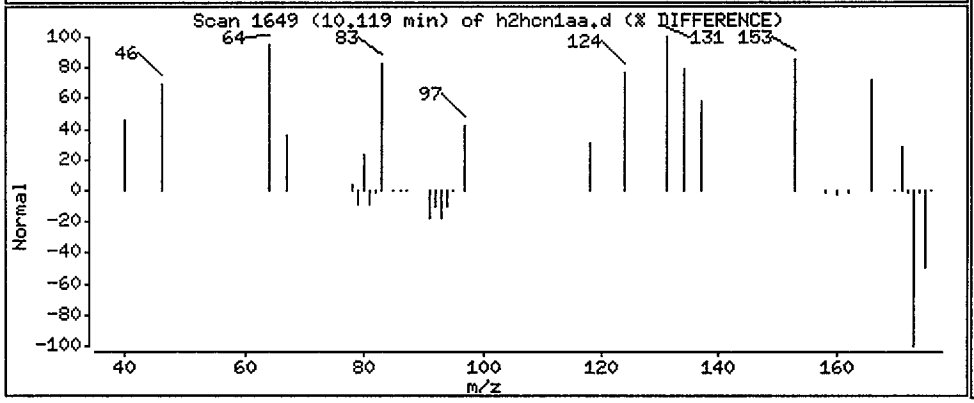












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

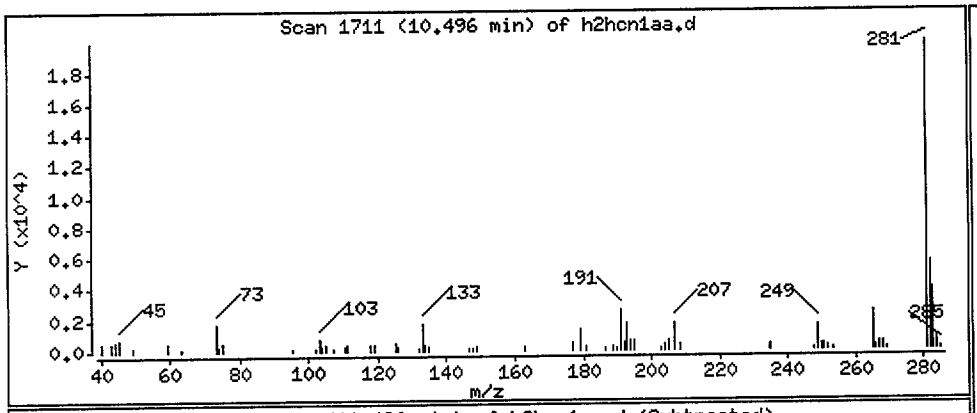
Operator: 22980

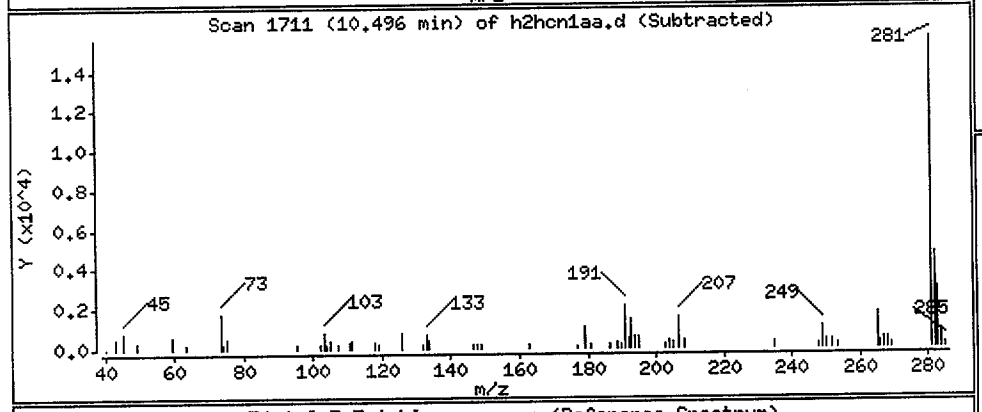
Column phase: J+W 624

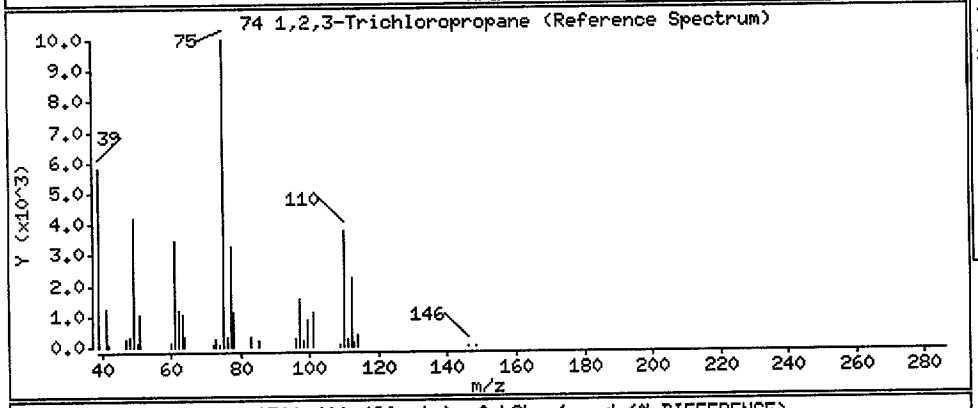
Column diameter: 0.18

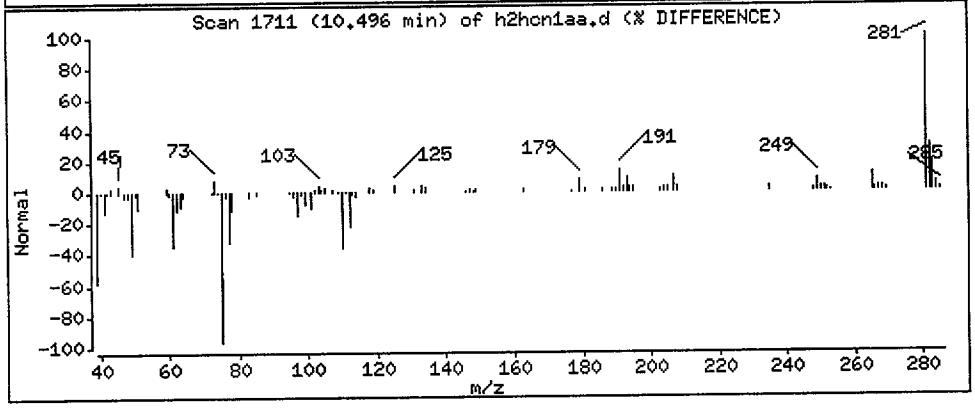
74 1,2,3-Trichloropropane

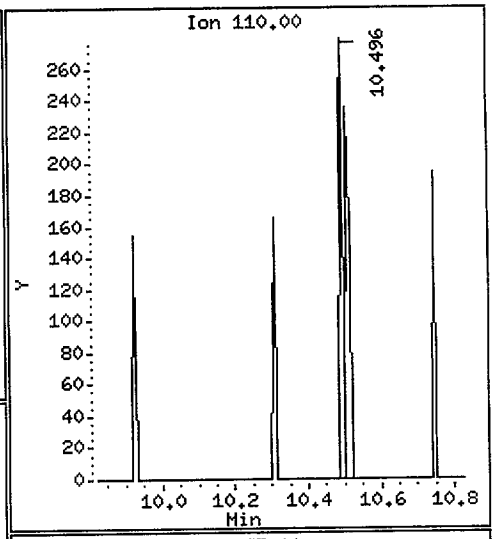
Concentration: 0.0040623 ug

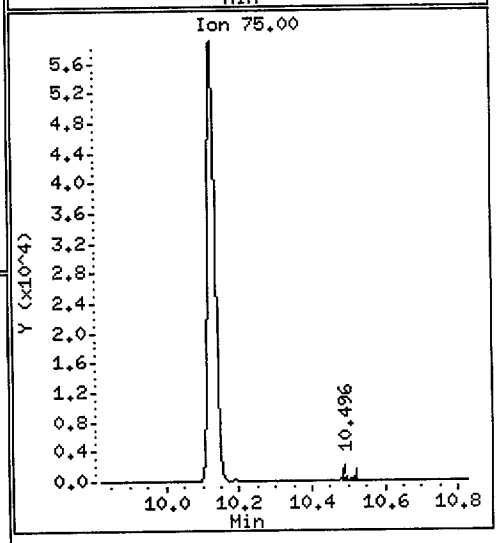












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

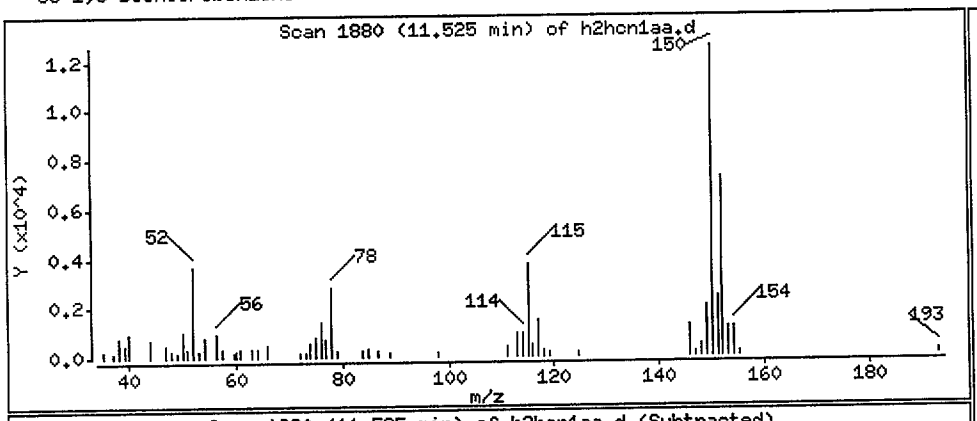
Operator: 22980

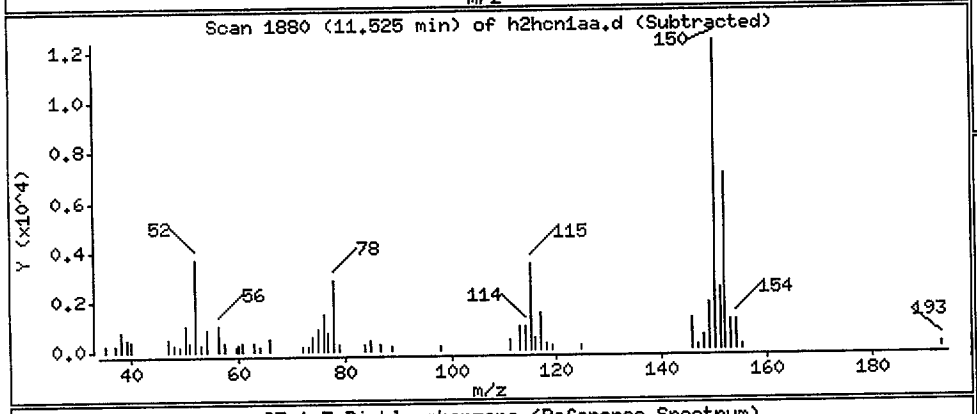
Column phase: J+W 624

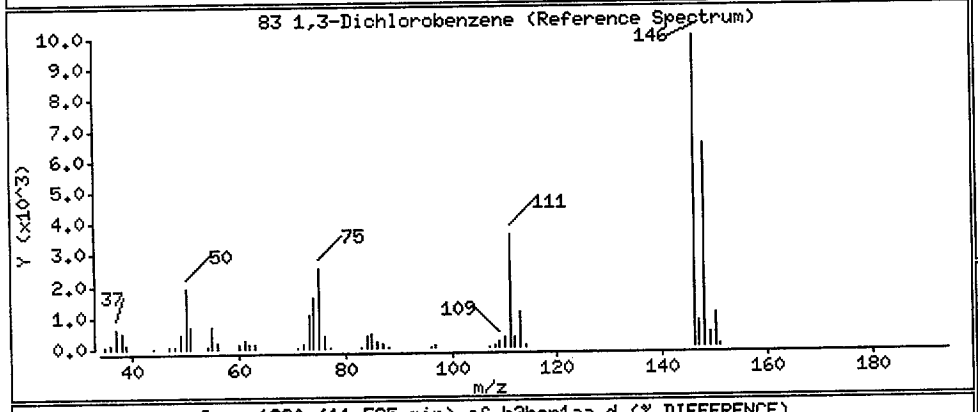
Column diameter: 0.18

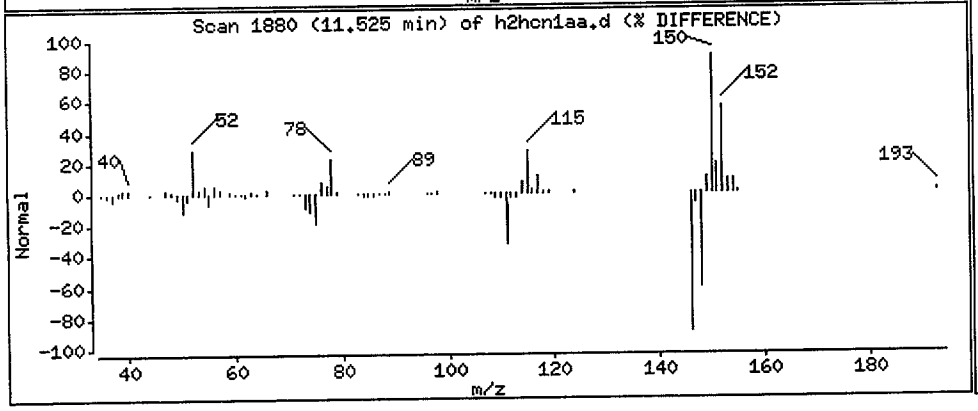
83 1,3-Dichlorobenzene

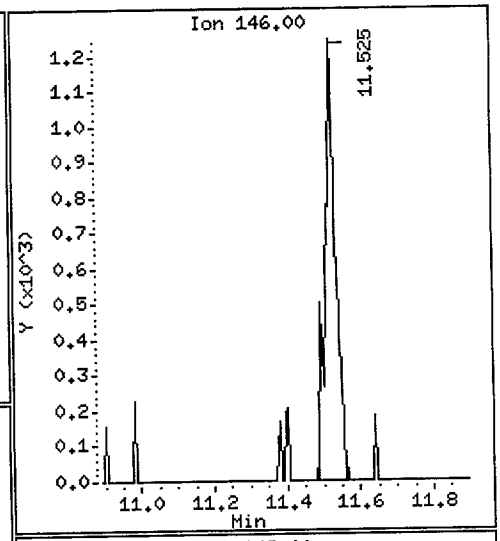
Concentration: 0.0015025 ug

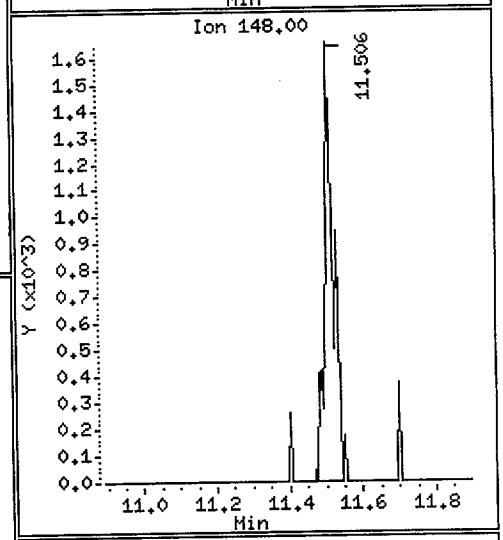


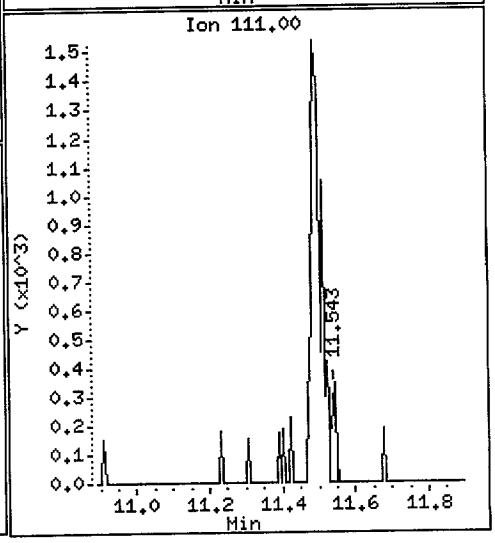












Data File: /chem/gcms/mz.i/Z040706.b/h2hcn1aa.d

Date : 07-APR-2006 15:10

Client ID: G-3094-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCN1AA,1,0,,

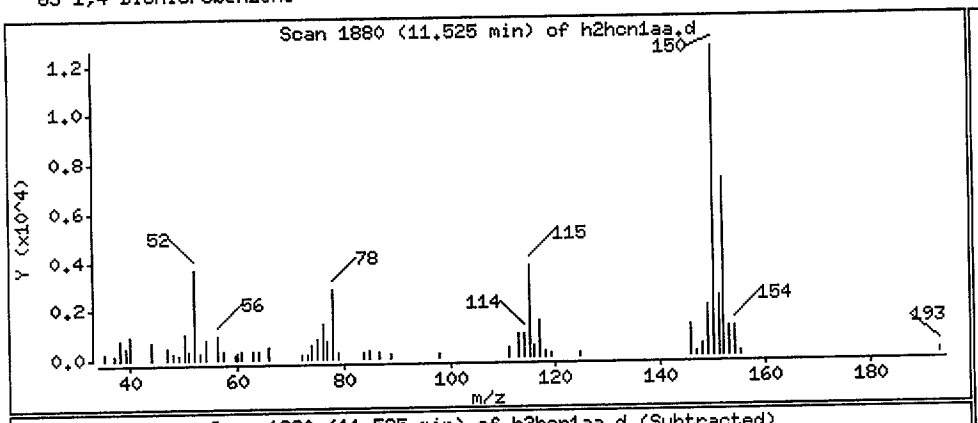
Operator: 22980

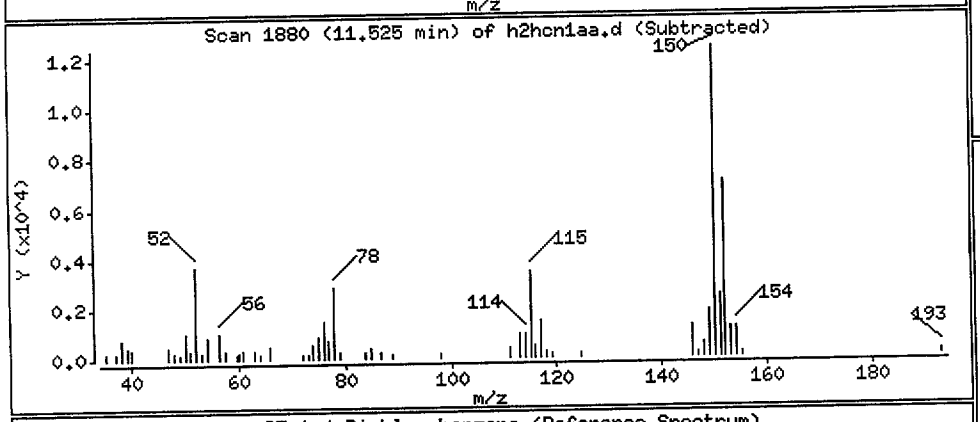
Column phase: J+W 624

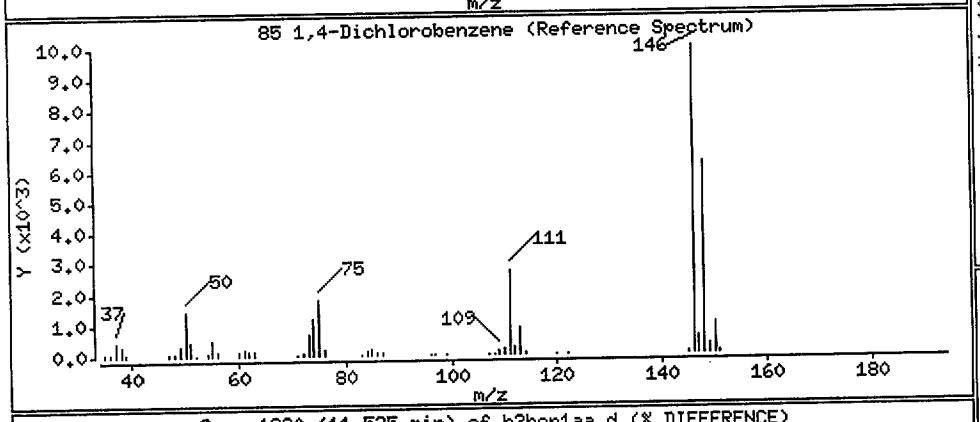
Column diameter: 0.18

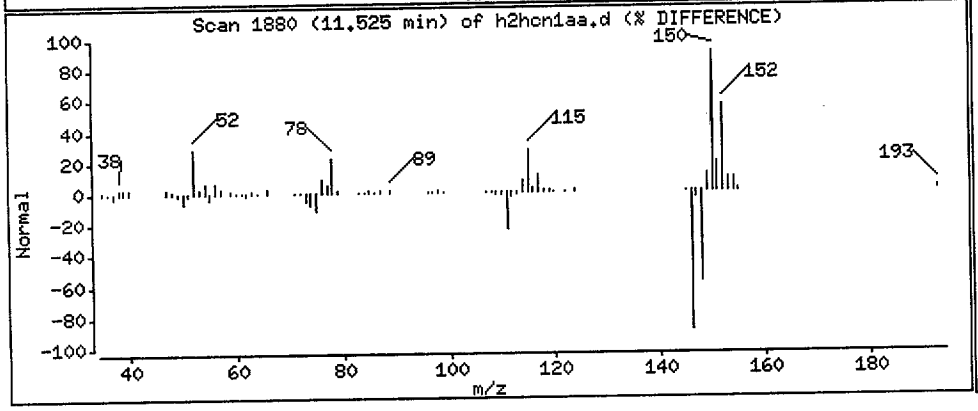
85 1,4-Dichlorobenzene

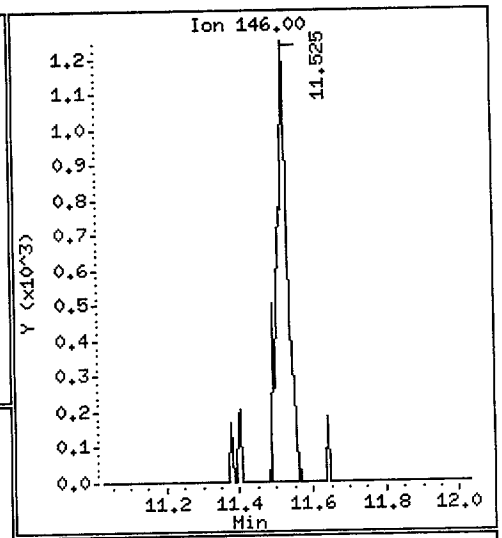
Concentration: 0.0016152 ug

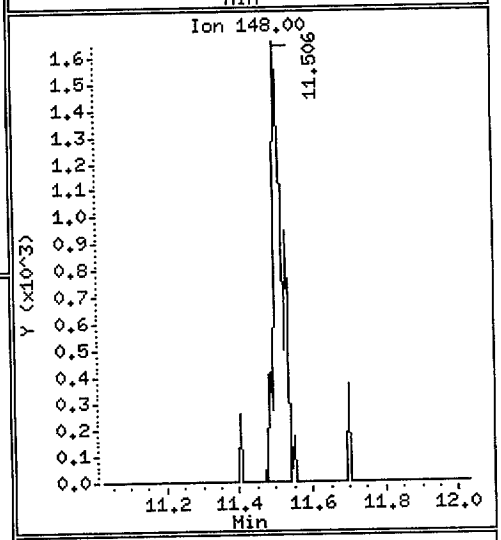


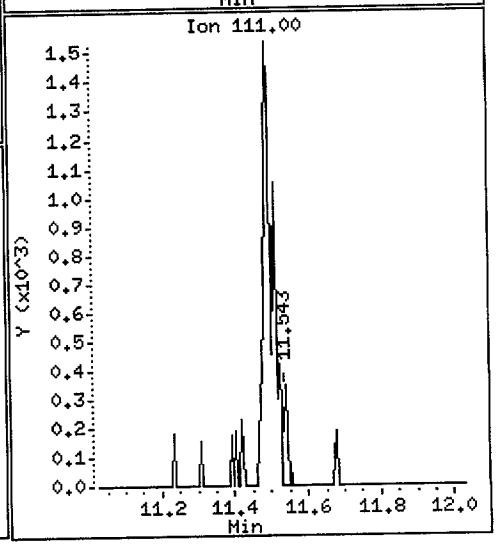












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcn1aa.d
Lab Smp Id: H2HCN1AA Client Smp ID: G-3094-R3-VOST PAIR
Inj Date : 07-APR-2006 15:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCN1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.37**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0069 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.040**	**0.010**	**ug**	**0.0016**
Bromoform	**0.13**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0037 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**1.4**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.025**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.26**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.069**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.36**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.19**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0049 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0049 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	64	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-029 **Work Order #:** H2HCP1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.041 NJ M	10.088	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Lab Smp Id: H2HCP1AA Client Smp ID: G-3095-R3-VOST PAIR
Inj Date : 07-APR-2006 15:38
Operator : 22980 Inst ID: mx.i
Smp Info : H2HCP1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
*	1 Fluorobenzene	96	4.851	4.851	(1.000)	1132943	10.0000	
*	2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	233221	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	244725	10.0000	
$	4 Dibromofluoromethane	113	4.273	4.273	(0.881)	138928	7.21244	0.18031
$	5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	107249	7.14295	0.17857
$	6 Toluene-d8	98	6.250	6.250	(0.824)	732515	6.41514	0.16038
$	7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	143189	4.93482	0.12337(R)
M	9 Xylene (total)	106				22221	0.42585	0.010646
	21 Acetone	43	2.375	2.381	(0.490)	23878	14.8807	0.37202
	23 Carbon Disulfide	76	2.497	2.497	(0.515)	54659	0.63305	0.015826
	26 Methylene Chloride	84	2.746	2.746	(0.566)	180493	10.3044	0.25761
	33 *Vinyl Acetate	86	3.251	3.421	(0.670)	1145	0.88902	~~0.022226~~
	34 2,2-Dichloropropane	77	3.859	3.853	(0.796)	2181	0.04387	~~0.0010967~~
	36 2-Butanone	43	3.872	3.871	(0.798)	9169	3.66351	~~0.091588~~
	38 *THF	42	4.109	4.109	(0.847)	1201	0.78364	0.019591
	39 Chloroform (ccc)	83	4.139	4.139	(0.853)	43867	1.01874	0.025468
	41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	5945	0.14619	0.0036547
	42 1,1-Dichloropropene	75	4.851	4.437	(1.000)	86126	1.92007	~~0.048002~~
	43 Benzene	78	4.608	4.607	(0.950)	31466	0.27424	0.0068560
	44 1,2-Dichloroethane	62	4.851	4.620	(1.000)	20164	1.04436	~~0.026109~~

04/20/06

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
45 Trichloroethene	130	5.173	5.173	(1.066)	5736	0.18631	0.0046578
49 Bromodichloromethane	83	5.605	5.605	(1.155)	38860	1.61659	0.040415
51 cis-1,3-Dichloropropene	75	6.311	6.007	(1.301)	7554	0.26833	~~0.0067083~~
52 4-Methyl-2-pentanone	43	6.250	6.147	(1.288)	6120	1.02108	0.025527
53 Toluene (ccc)	91	6.311	6.311	(0.832)	1033878	7.56801	0.18920
54 trans-1,3-Dichloropropene	75	6.311	6.506	(0.832)	7554	0.31550	~~0.0078874~~
56 1,1,2-Trichloroethane	97	6.816	6.670	(0.899)	3748	0.34740	~~0.0086850~~
57 Tetrachloroethene	164	6.816	6.816	(0.899)	425839	14.5076	0.36269
59 2-Hexanone	43	6.719	6.907	(0.886)	3518	0.77076	0.019269
60 Chlorodibromomethane	129	7.035	7.035	(0.928)	55141	4.12419	0.10310
62 Chlorobenzene (spcc)	112	7.613	7.607	(1.004)	3953064	56.3694	1.4092
64 Ethylbenzene (ccc)	106	7.832	7.716	(1.033)	11110	0.23036	~~0.0057591~~
65 m&p-Xylene	106	7.832	7.838	(1.033)	11110	0.19656	0.0049141
66 o-Xylene	106	7.832	8.251	(1.033)	11110	0.22929	~~0.0057321~~
68 Bromoform (spcc)	173	8.459	8.464	(1.116)	33688	5.21337	0.13033
69 Isopropylbenzene	105	8.690	8.689	(1.146)	10424	0.06707	~~0.0016768~~
73 1,2,3-Trichloropropane	110	9.243	9.115	(0.860)	3389	1.48341	~~0.037085~~
80 1,2,4-Trimethylbenzene	105	10.095	10.125	(0.939)	51515	0.65245	~~0.016311~~
90 Napthalene	128	13.946	13.946	(1.298)	29101	2.74071	0.068518

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2hcp1aa.d
Lab Smp Id: H2HCP1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: G-3095-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1132943	-1.41
2 Chlorobenzene-d5	214194	107097	428388	233221	8.88
3 1,4 Dichlorobenze	242601	121300	485202	244725	0.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.00
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.00

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.

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 07-Apr-2006 15:55

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCP1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3095-R3-VOST PAIR
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

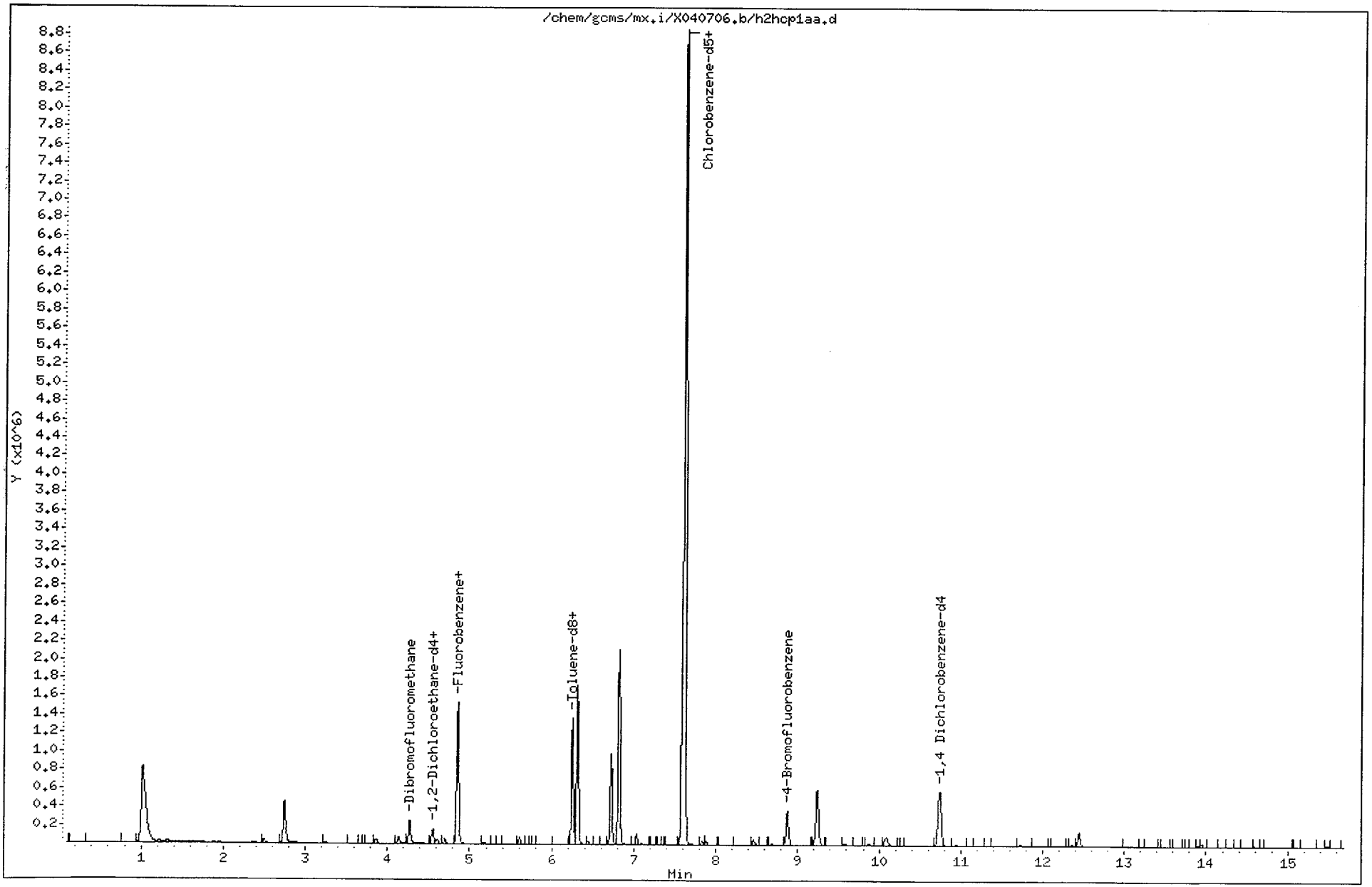
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18031	72.12	50-150
$ 5 1,2-Dichloroethane	0.25000	0.17857	71.43	50-150
$ 6 Toluene-d8	0.25000	0.16038	64.15	50-150
$ 7 4-Bromofluorobenze	0.25000	0.12337	49.35*	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Date : 07-APR-2006 15:38
Client ID: G-3095-R3-VOST PAIR
Sample Info: H2HCP1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

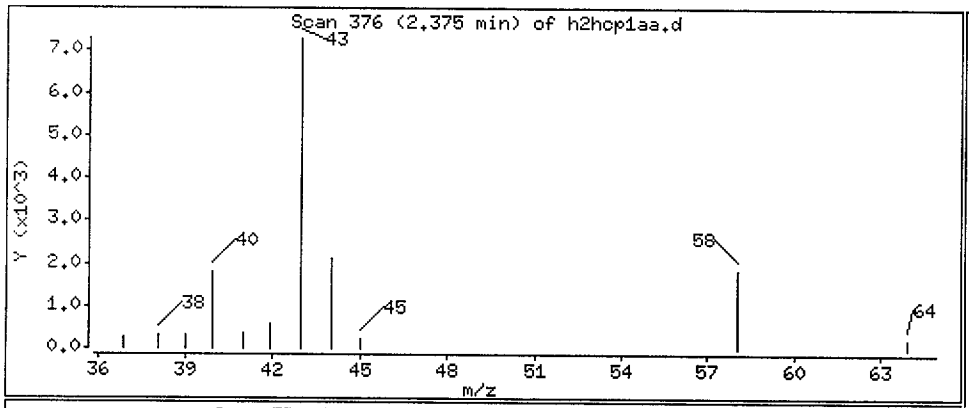
Operator: 22980

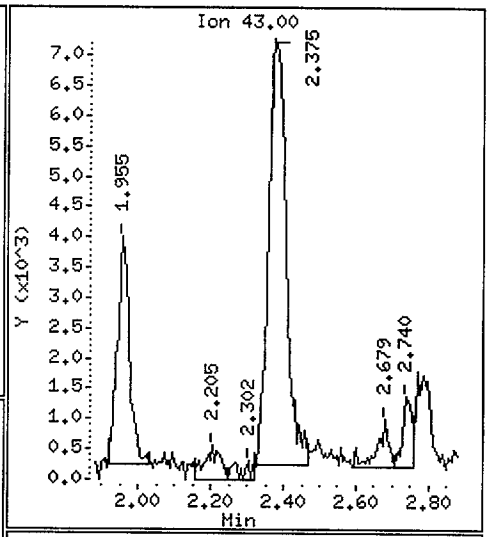
Column phase: J+W 624

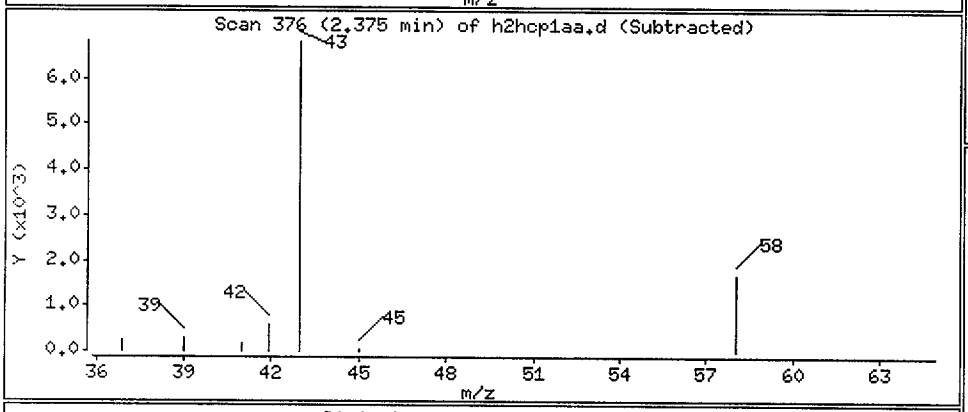
Column diameter: 0.18

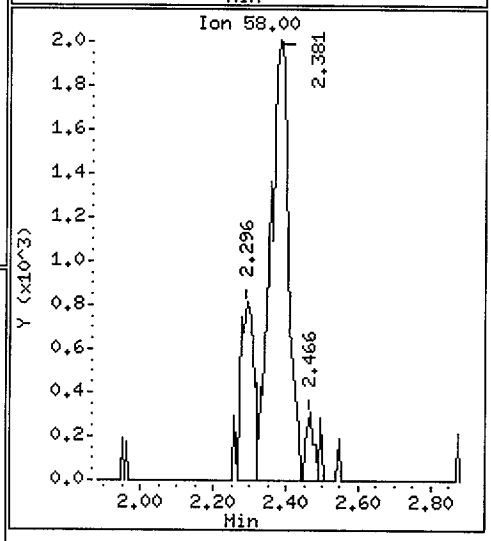
21 Acetone

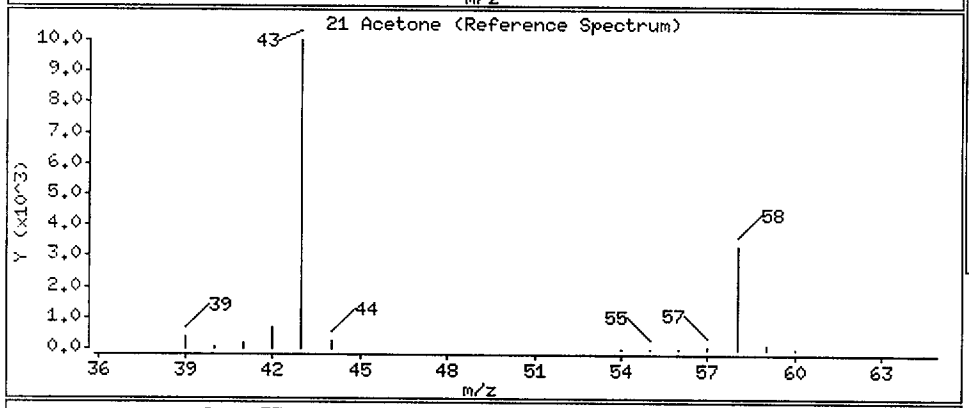
Concentration: 0.37202 ug

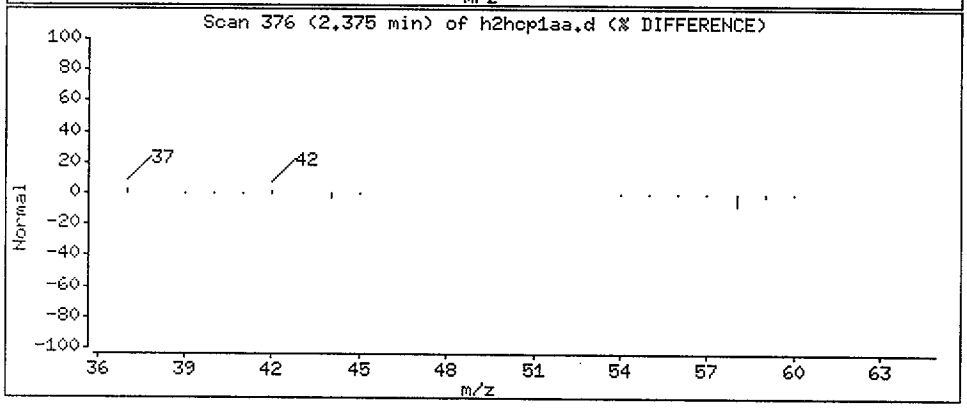












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

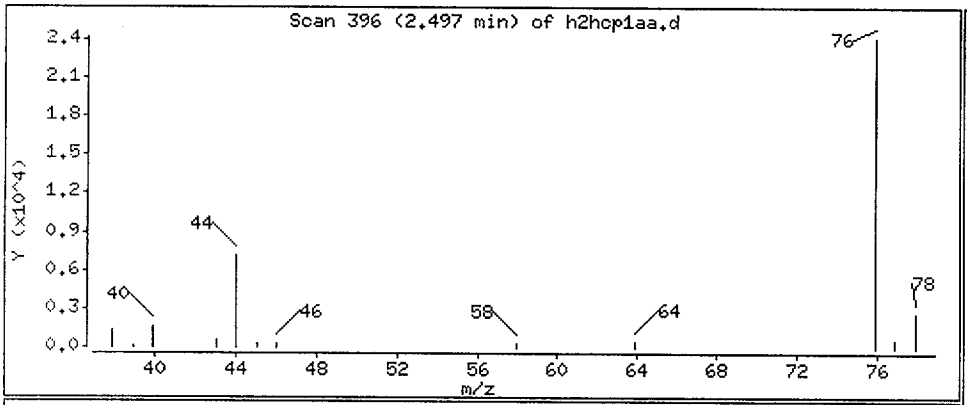
Operator: 22980

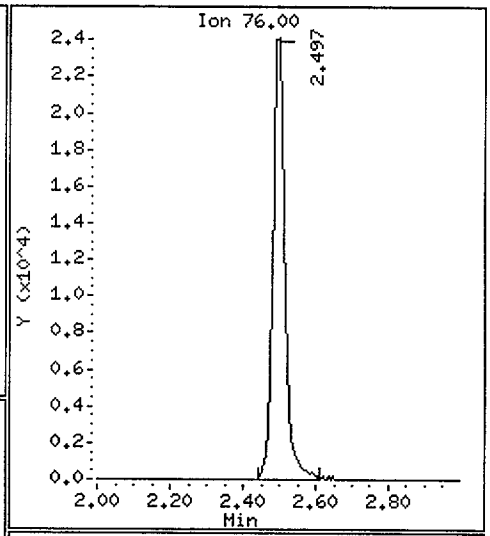
Column phase: J+W 624

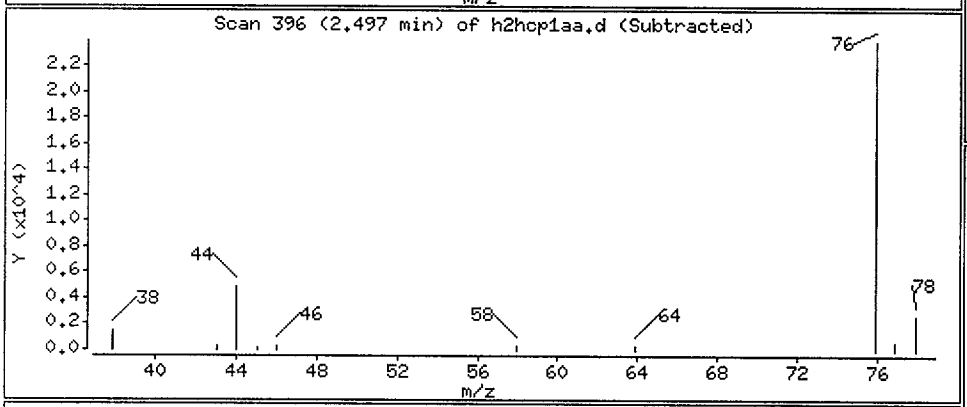
Column diameter: 0.18

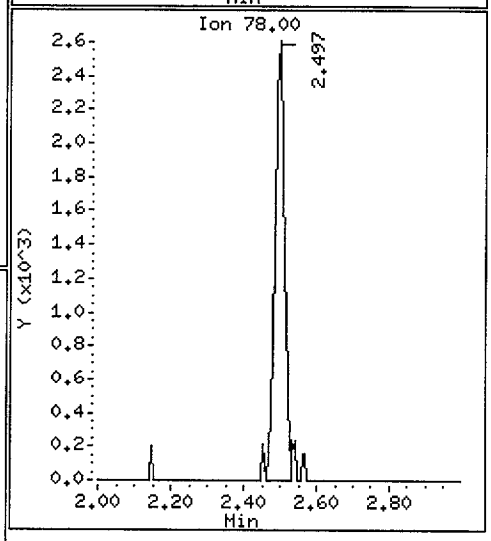
23 Carbon Disulfide

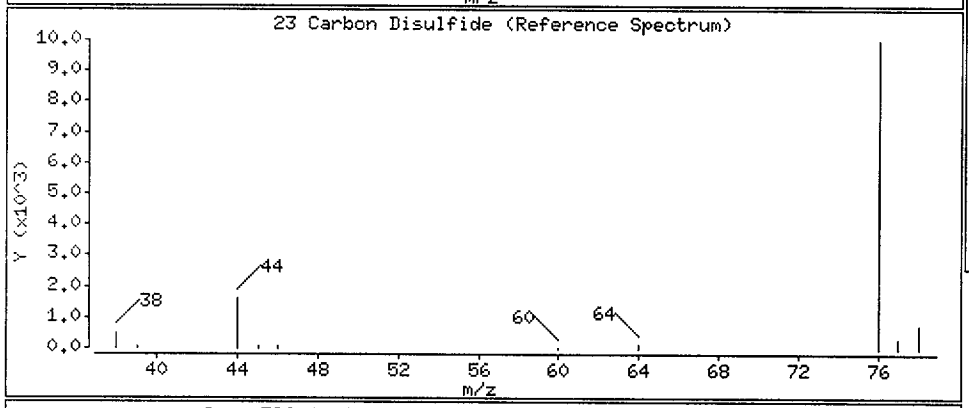
Concentration: 0.015826 ug

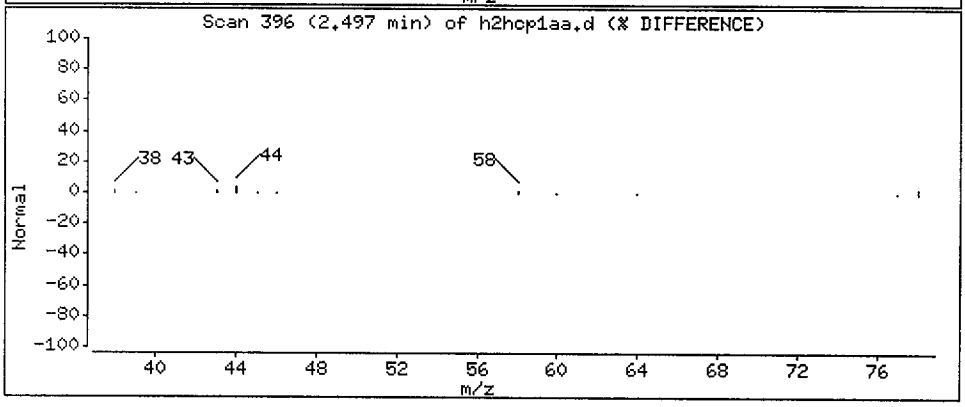












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

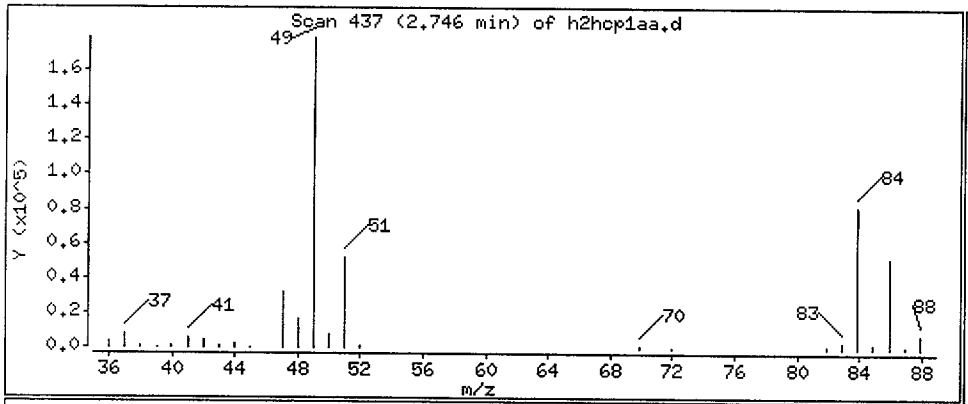
Operator: 22980

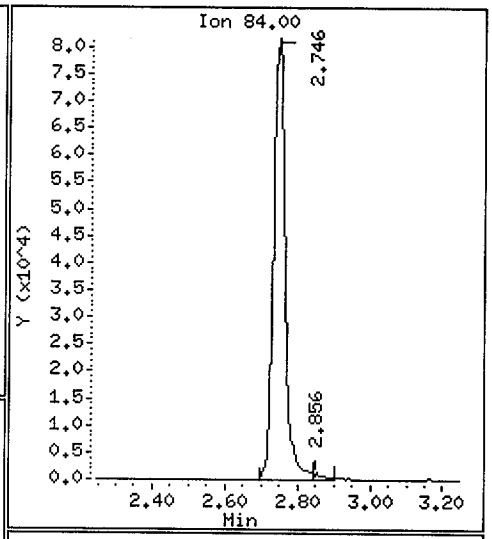
Column phase: J+W 624

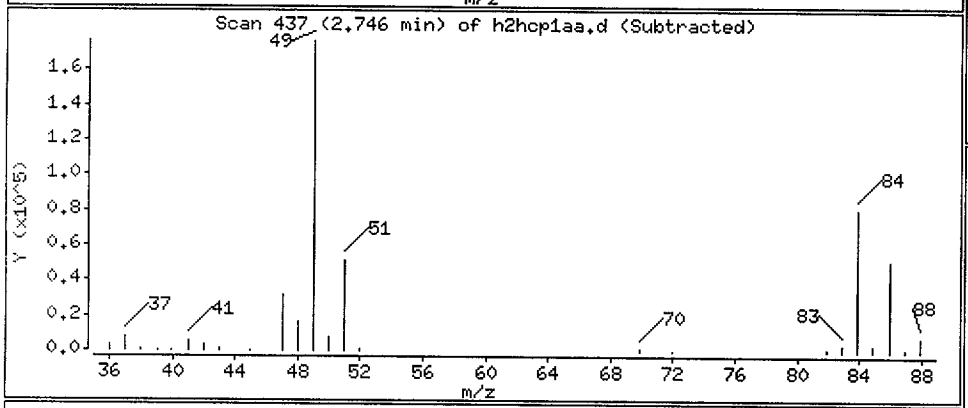
Column diameter: 0.18

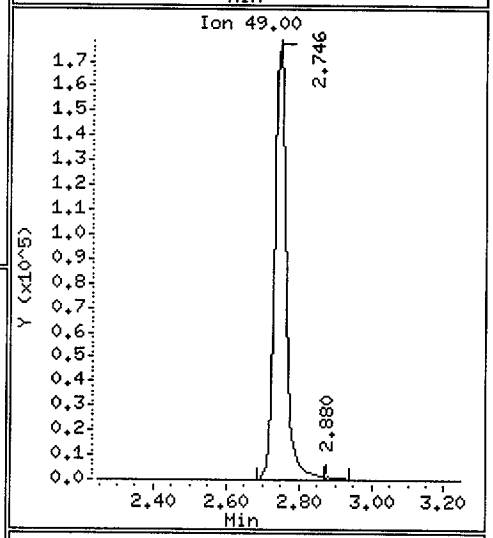
26 Methylene Chloride

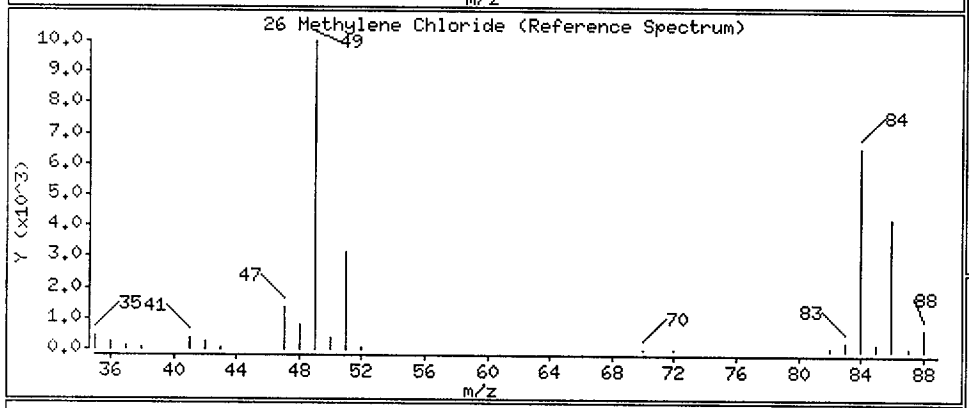
Concentration: 0.25761 ug

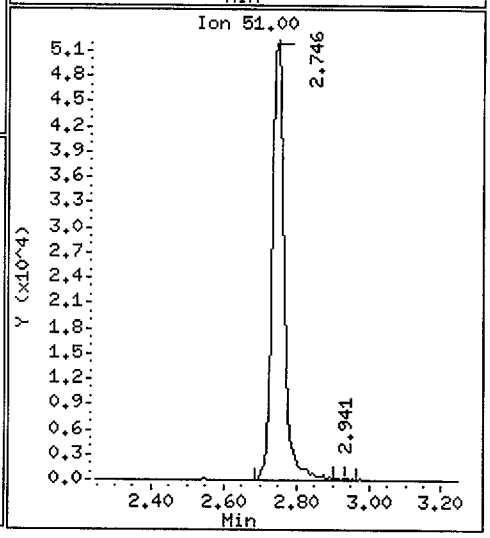


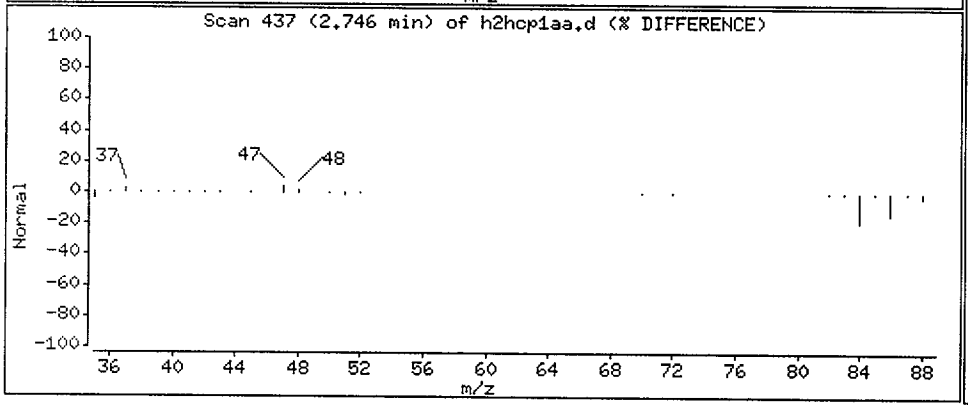












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

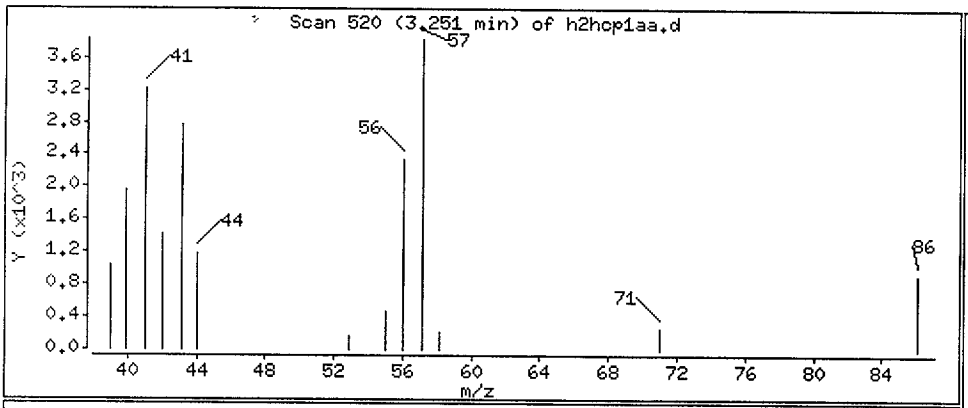
Operator: 22980

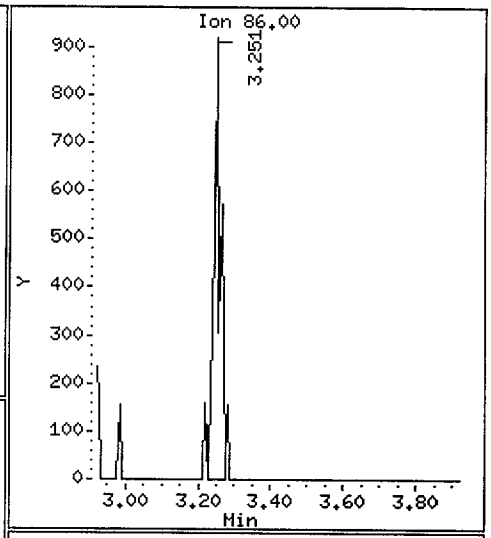
Column phase: J+W 624

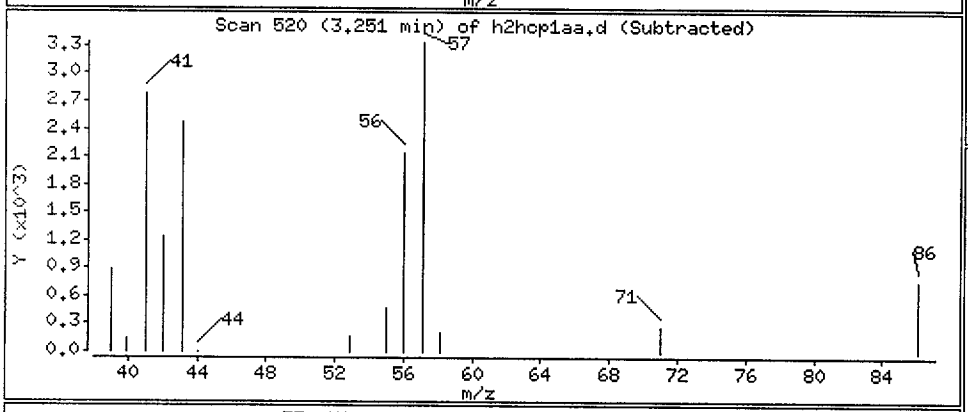
Column diameter: 0.18

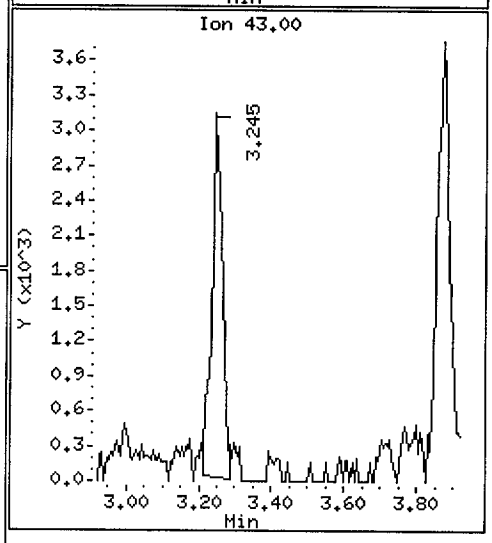
33 *Vinyl Acetate

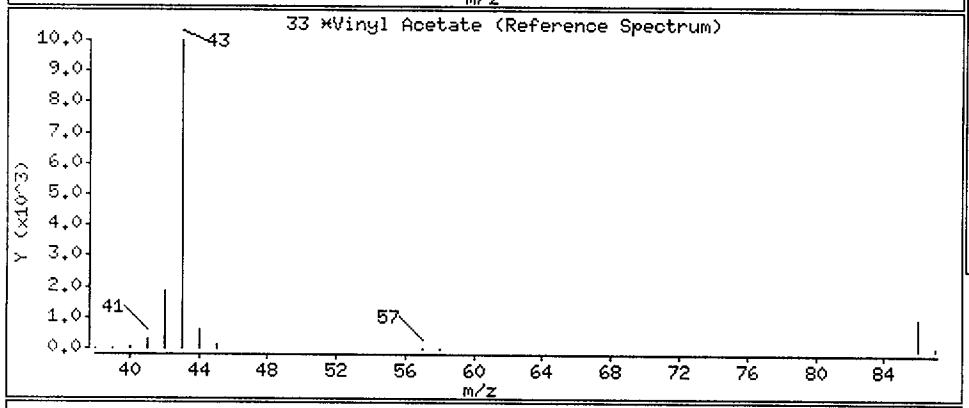
Concentration: 0.022226 ug

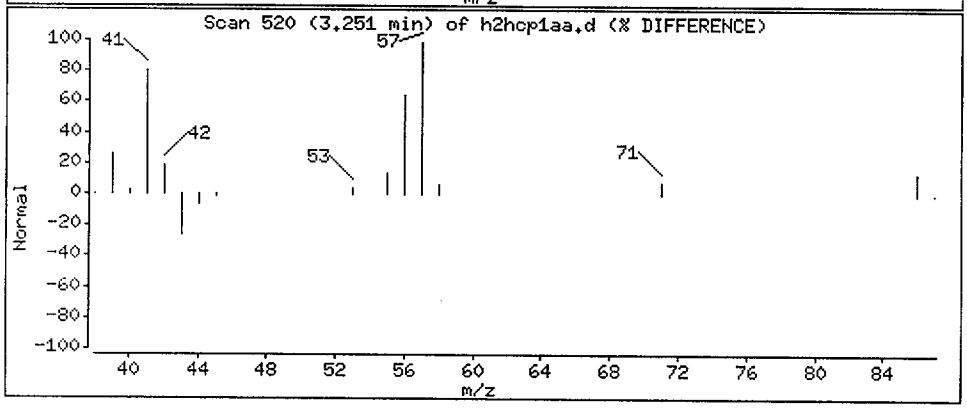












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

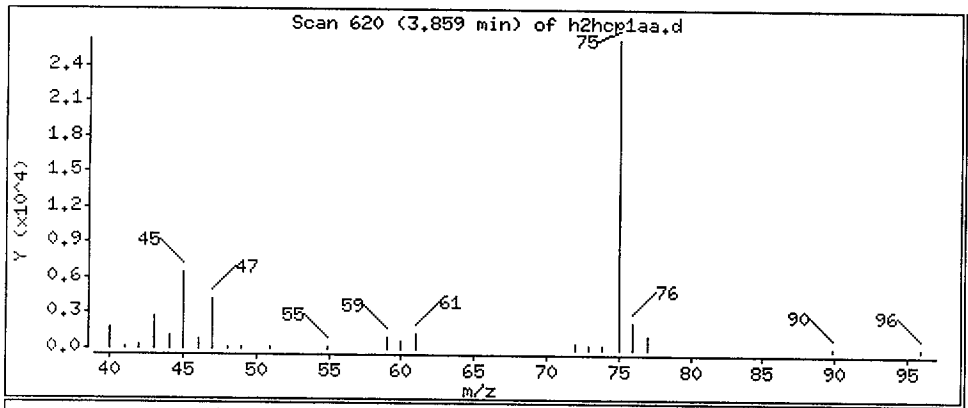
Operator: 22980

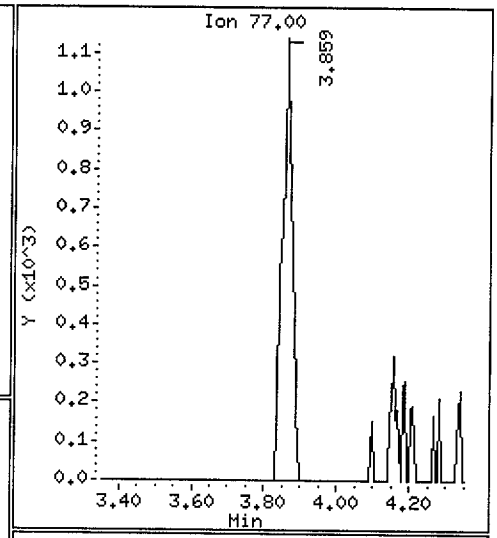
Column phase: J+W 624

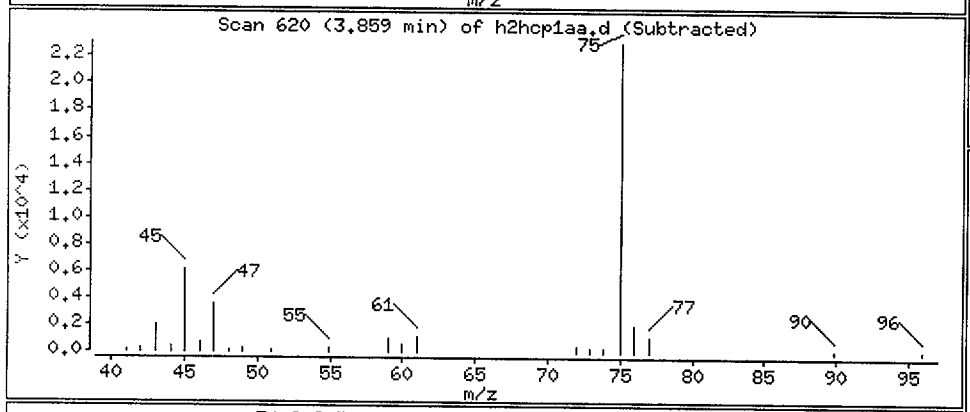
Column diameter: 0.18

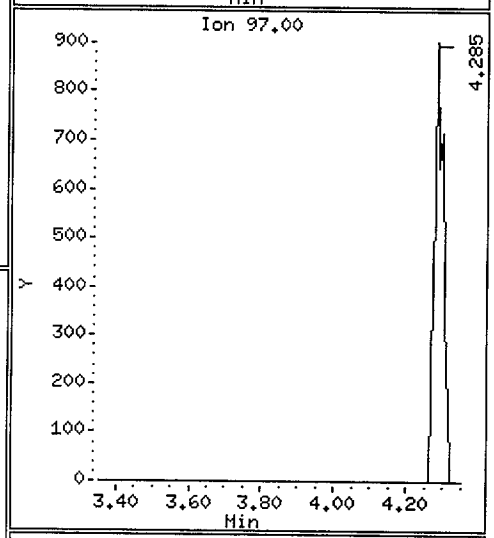
34 2,2-Dichloropropane

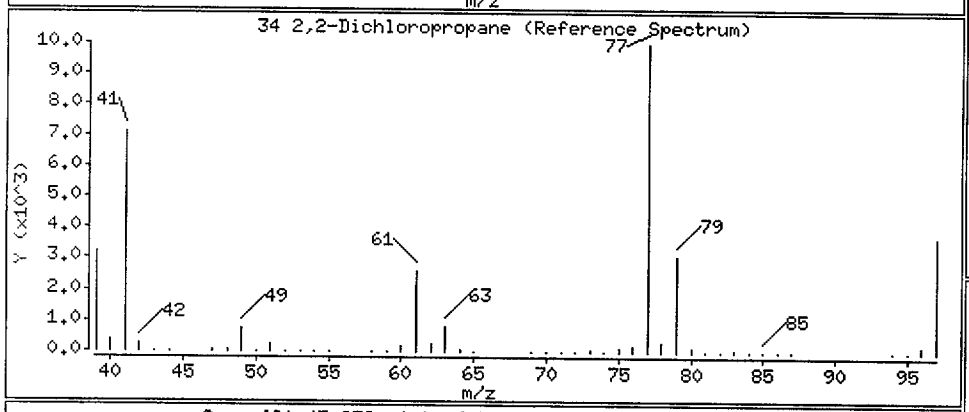
Concentration: 0.0010967 ug

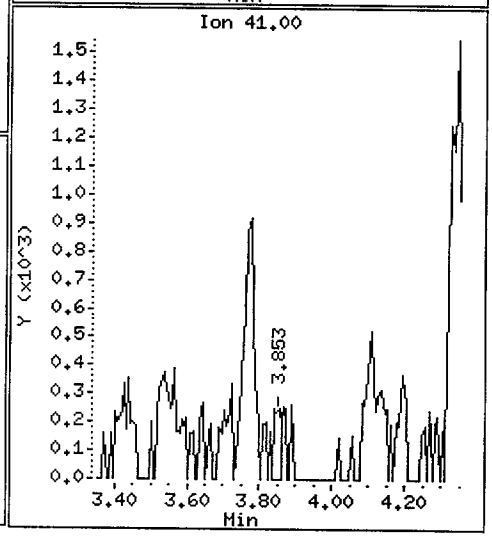


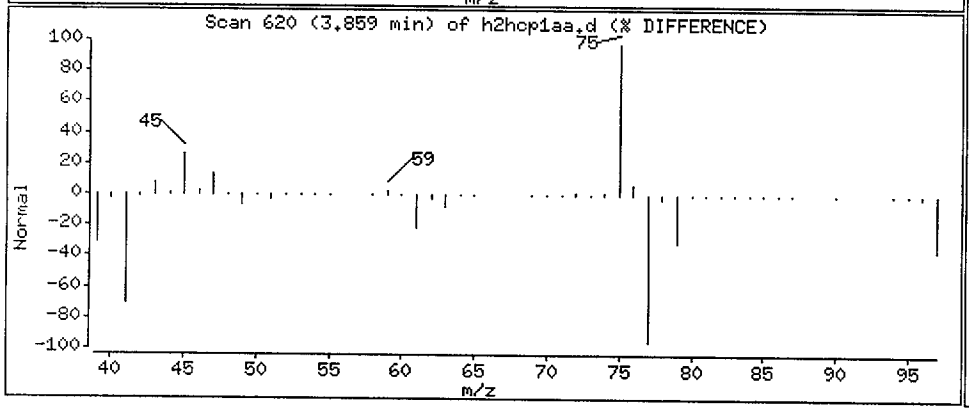












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

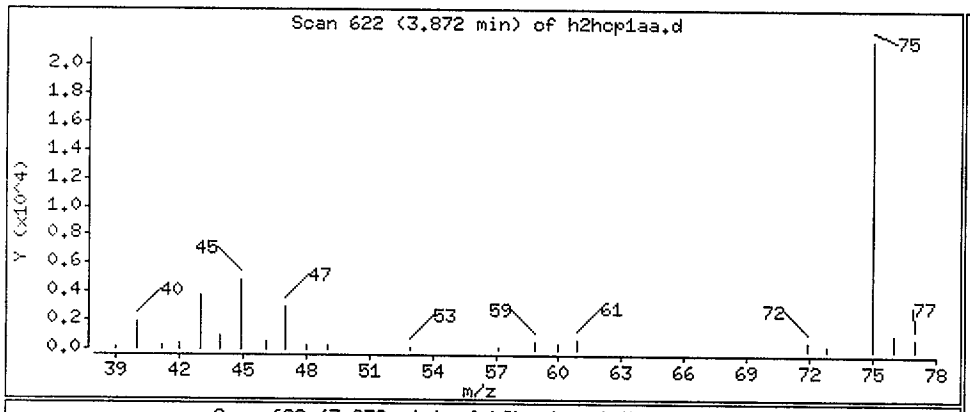
Operator: 22980

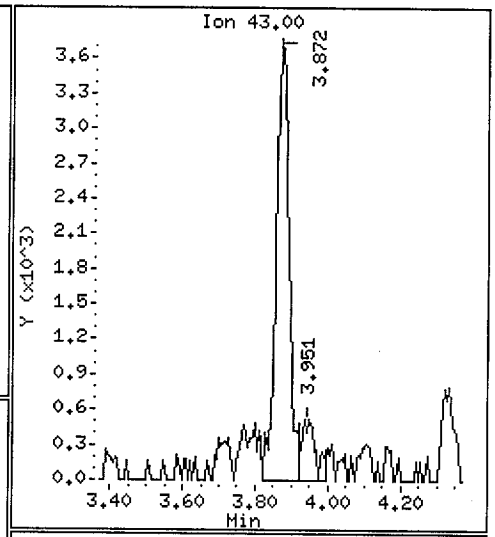
Column phase: J+W 624

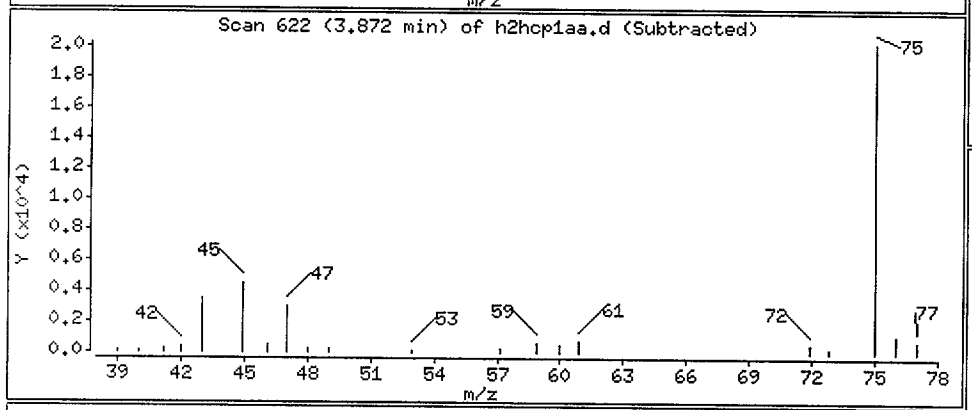
Column diameter: 0.18

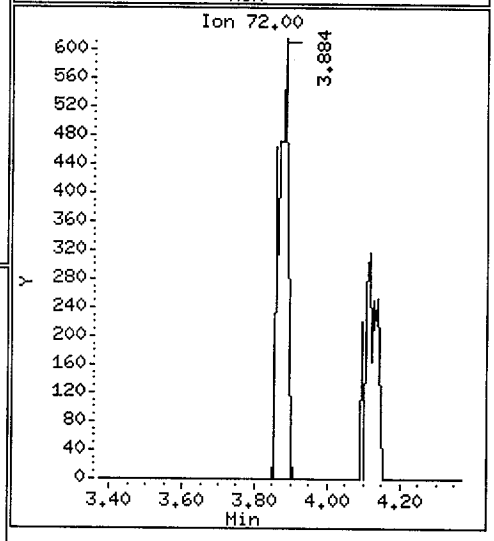
36 2-Butanone

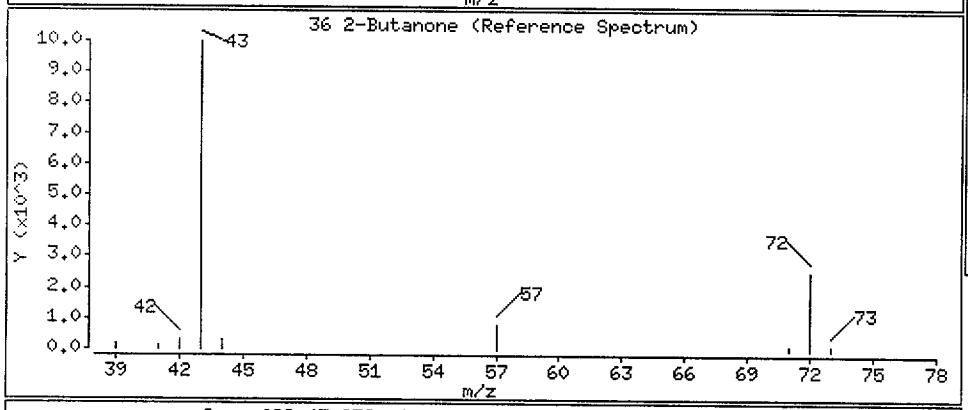
Concentration: 0.091588 ug

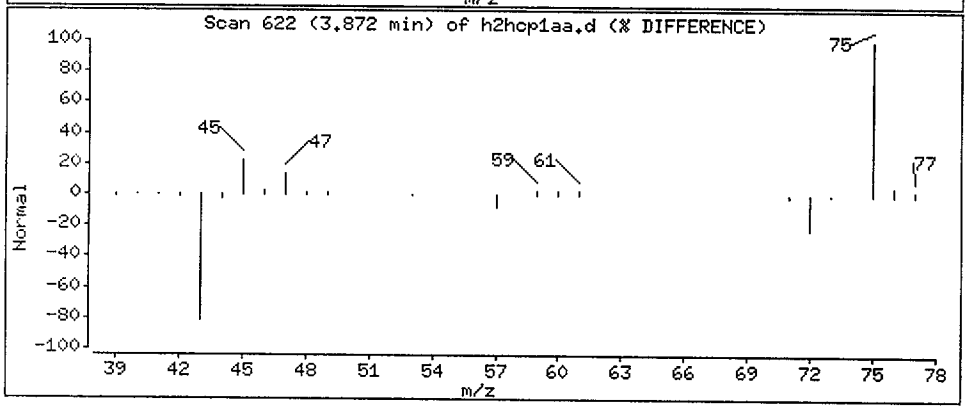












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

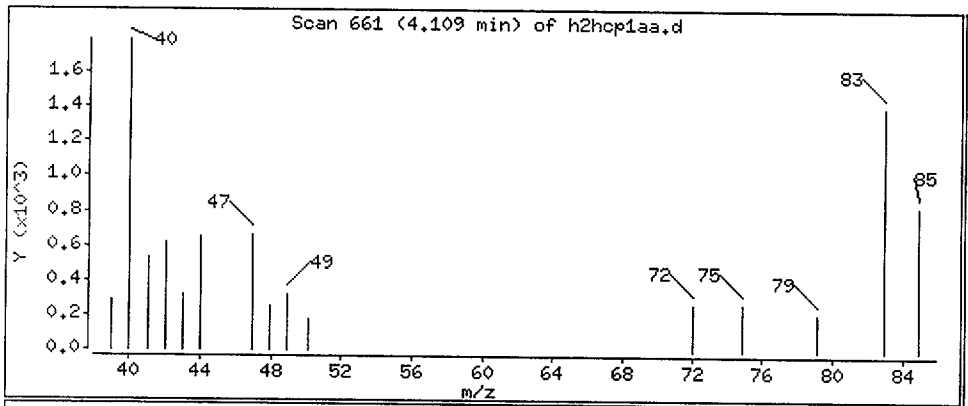
Operator: 22980

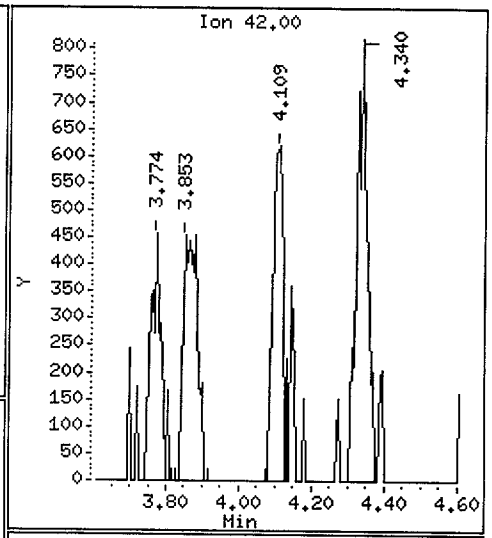
Column phase: J+W 624

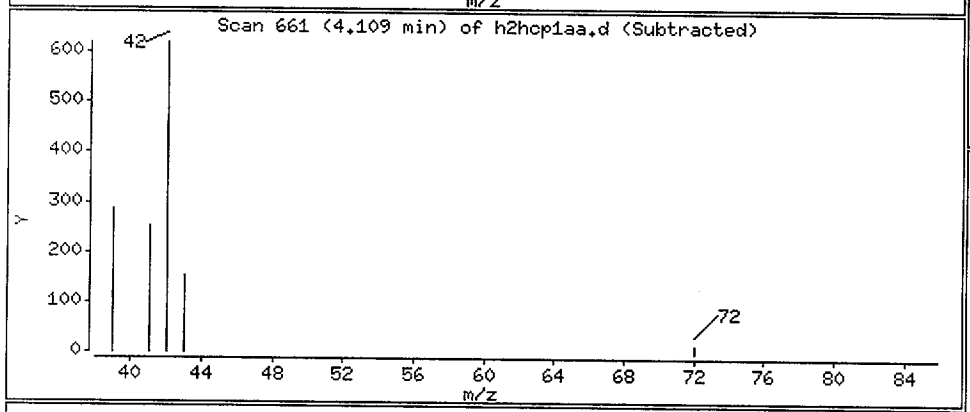
Column diameter: 0.18

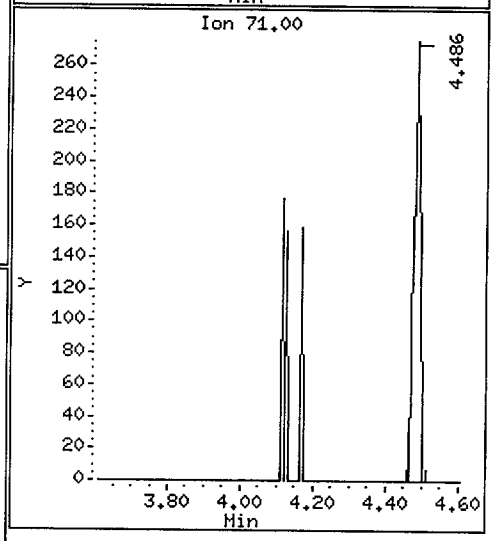
38 *THF

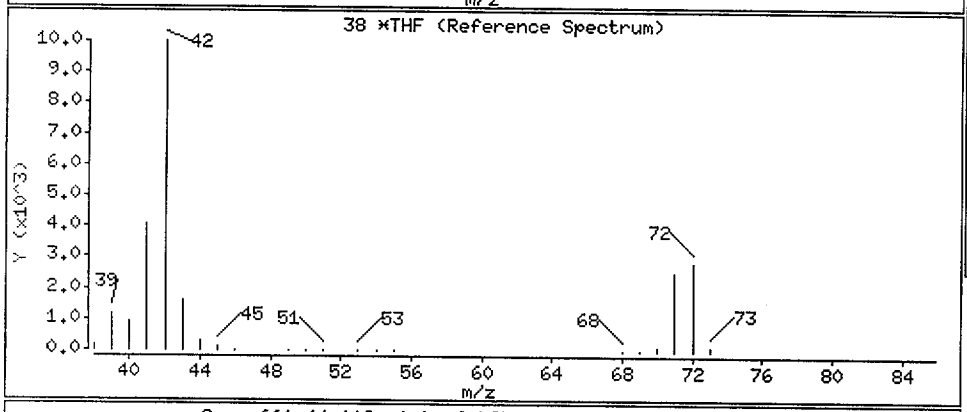
Concentration: 0.019591 ug

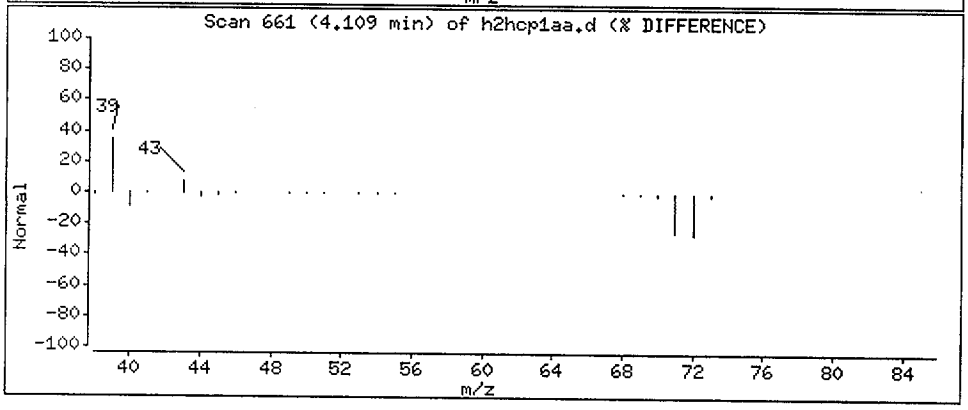












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

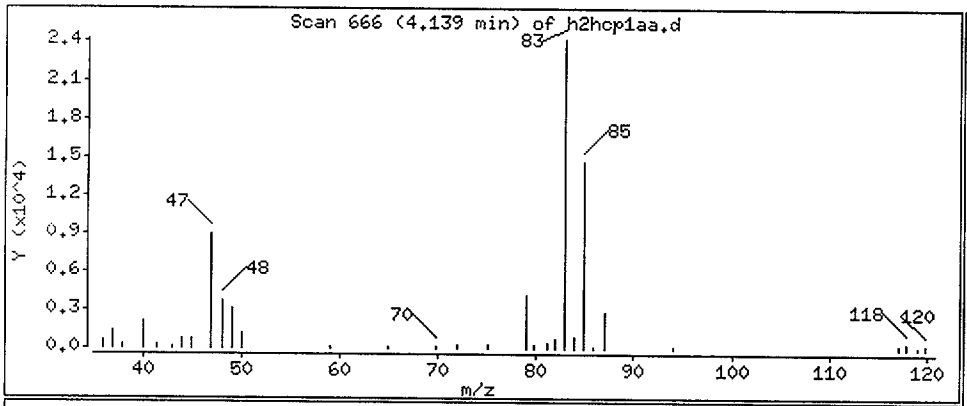
Operator: 22980

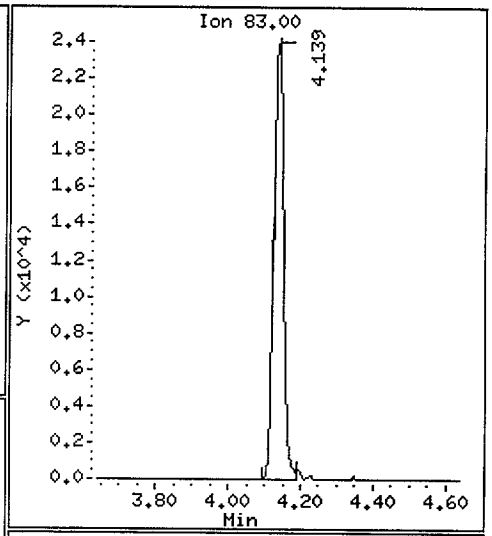
Column phase: J+W 624

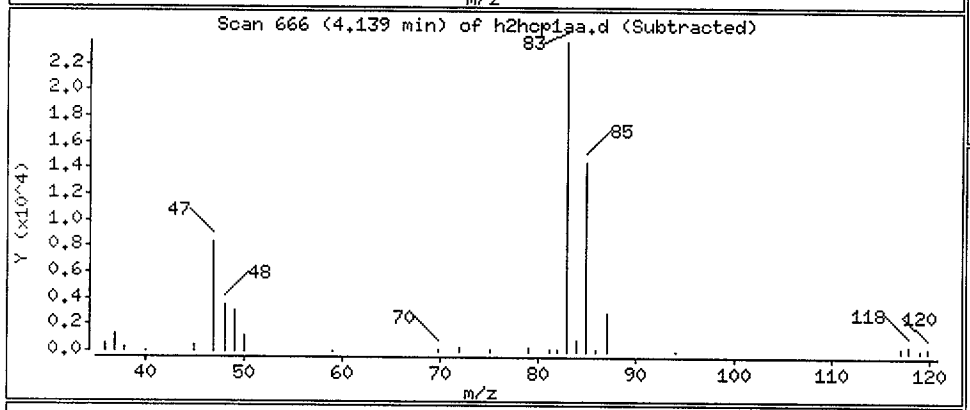
Column diameter: 0.18

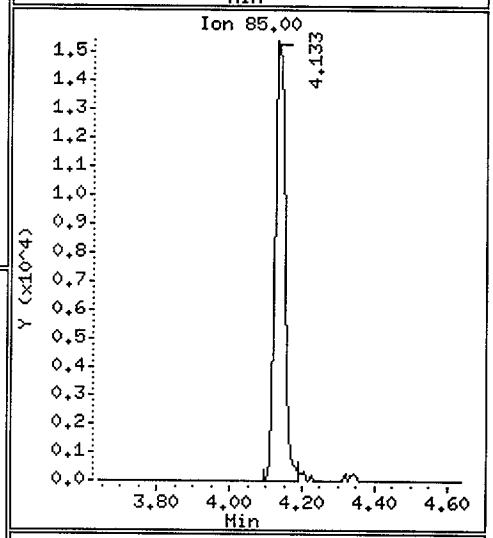
39 Chloroform (ccc)

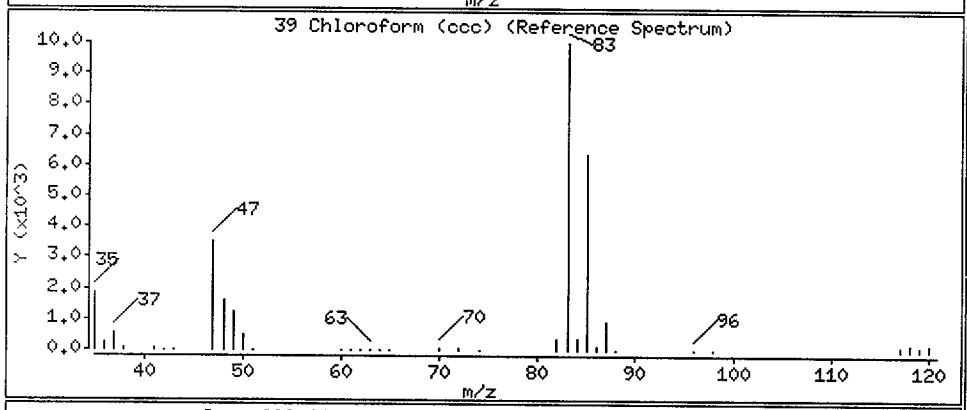
Concentration: 0.025468 ug

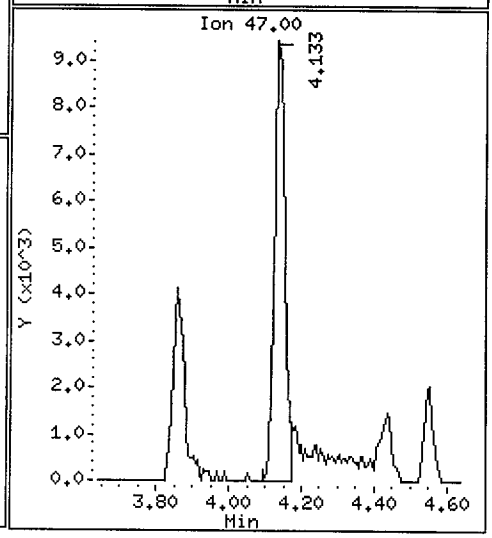


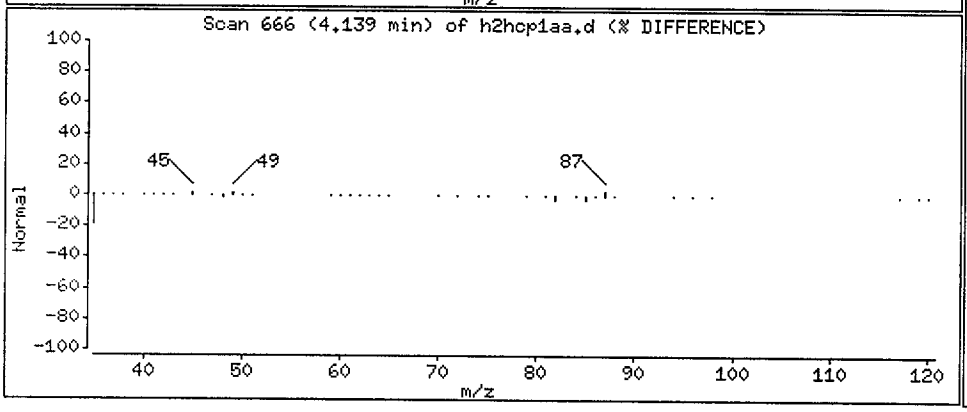












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

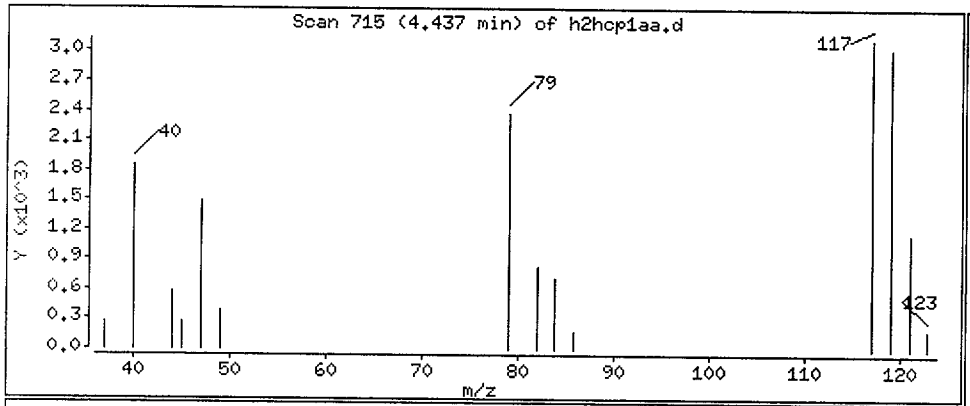
Operator: 22980

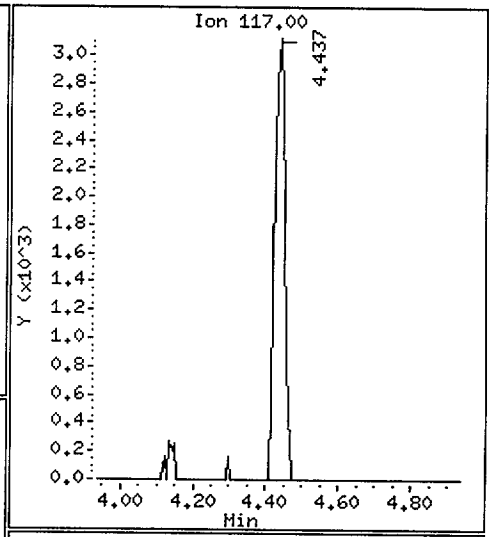
Column phase: J+W 624

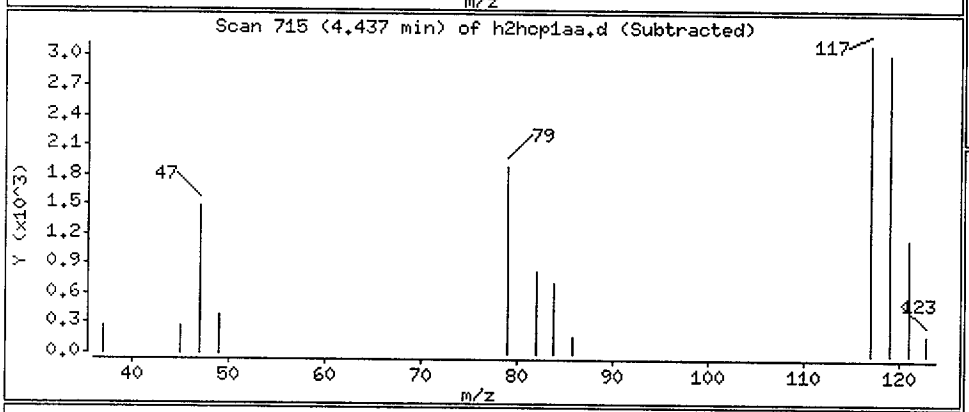
Column diameter: 0.18

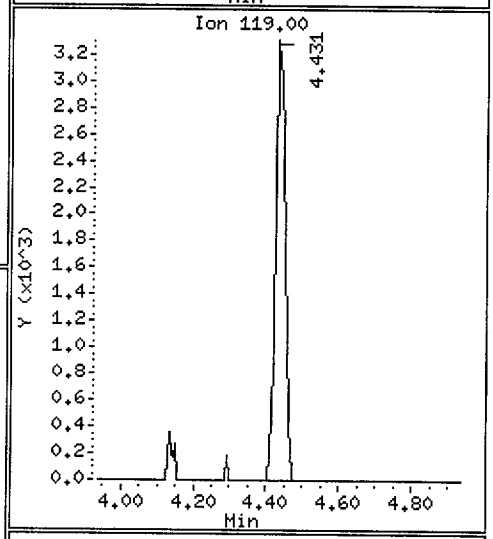
41 Carbon Tetrachloride

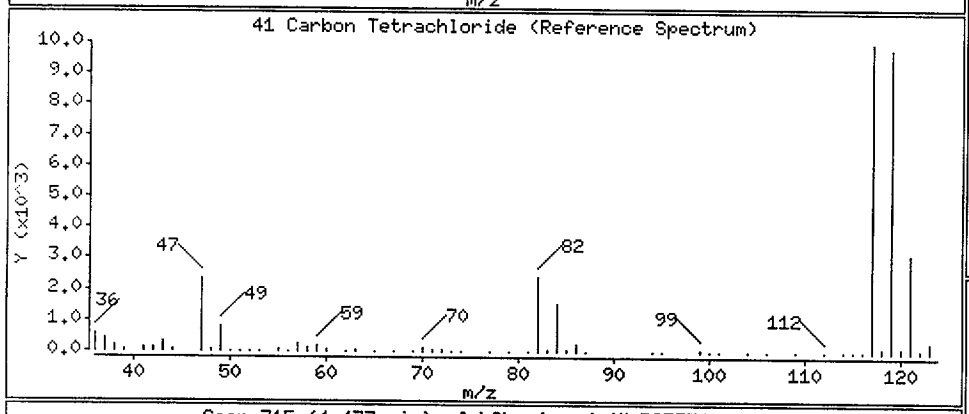
Concentration: 0.0036547 ug

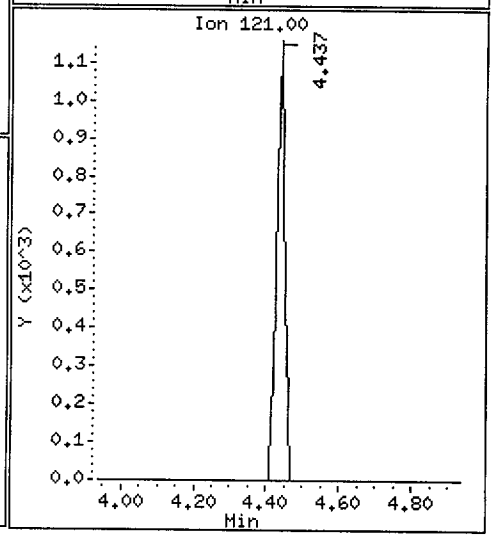


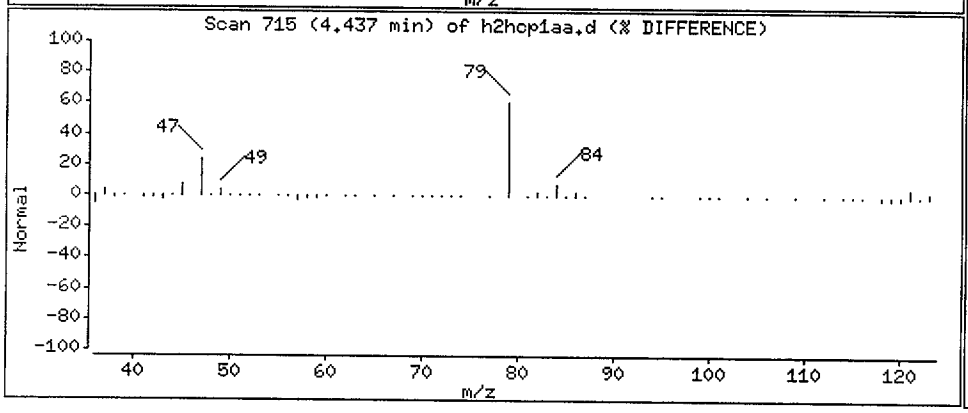












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

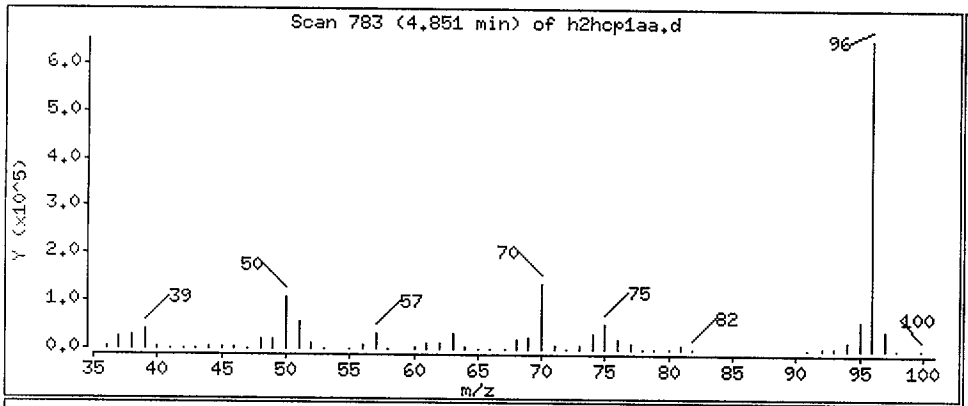
Operator: 22980

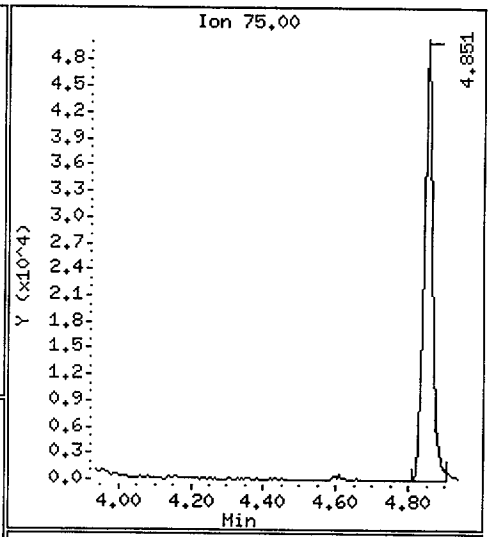
Column phase: J+W 624

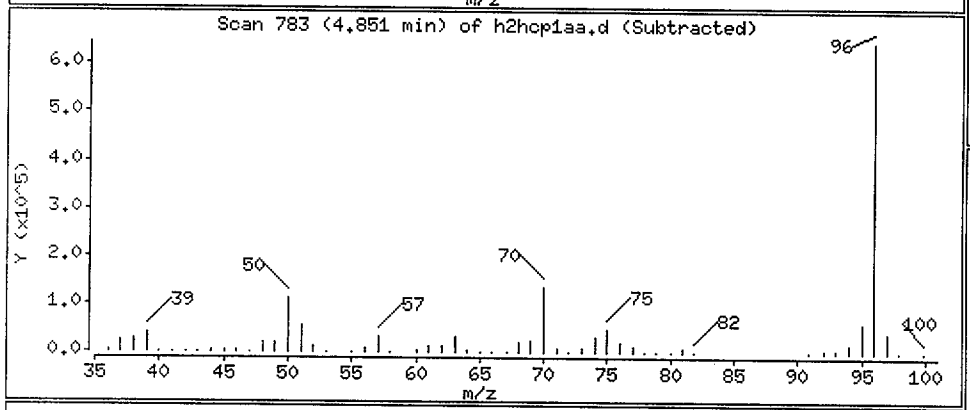
Column diameter: 0.18

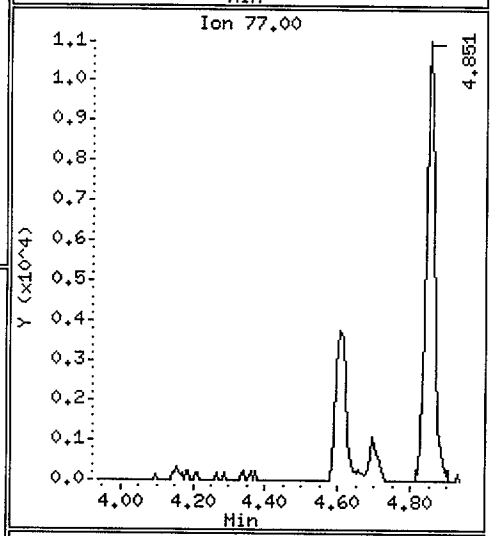
42 1,1-Dichloropropene

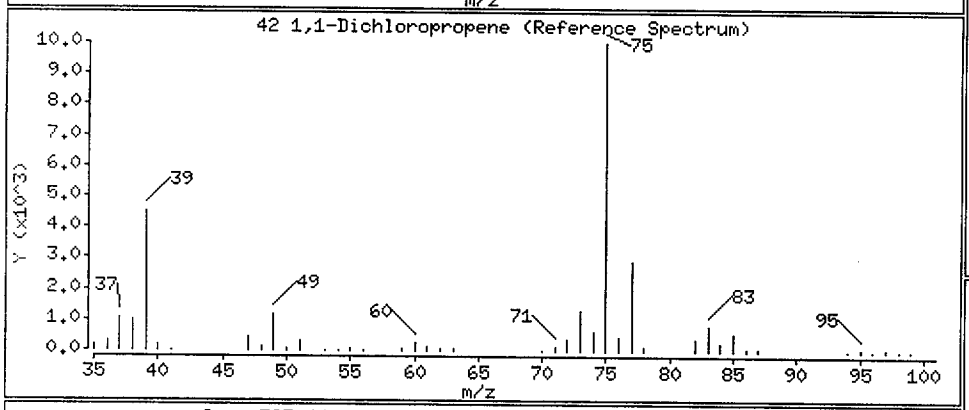
Concentration: 0.048002 ug

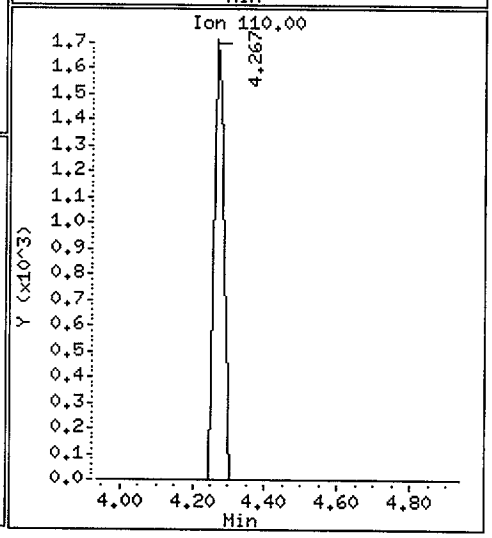


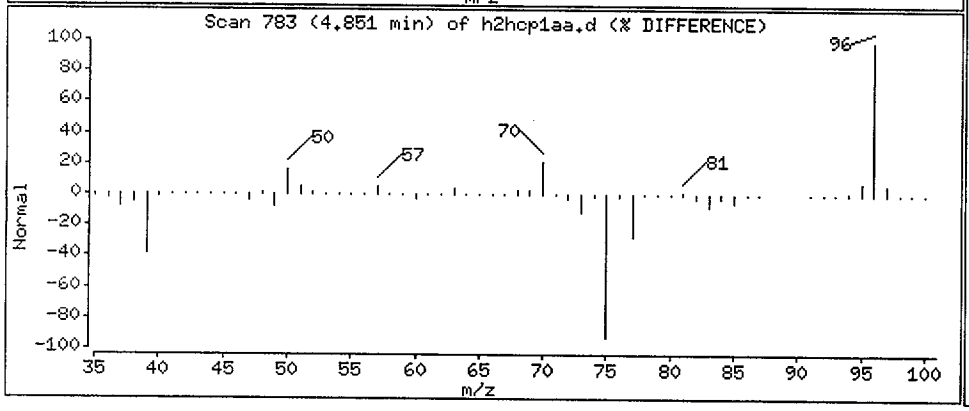












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

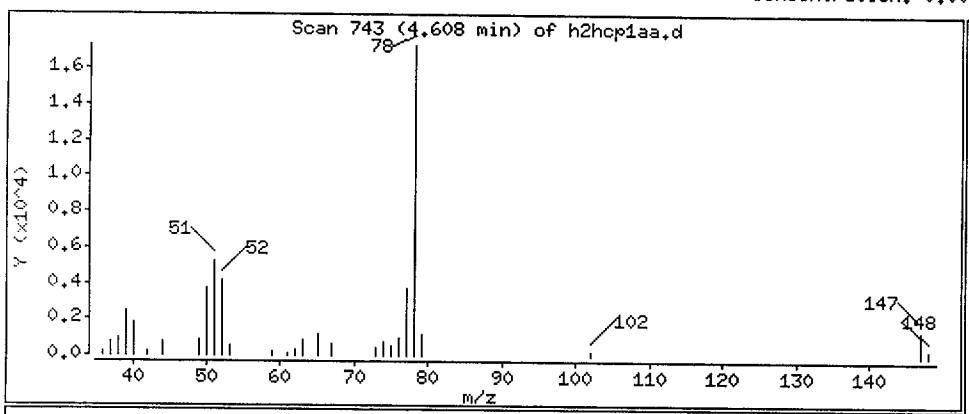
Operator: 22980

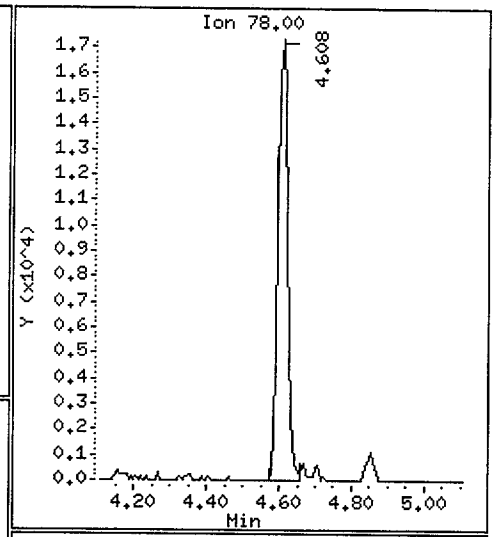
Column phase: J+W 624

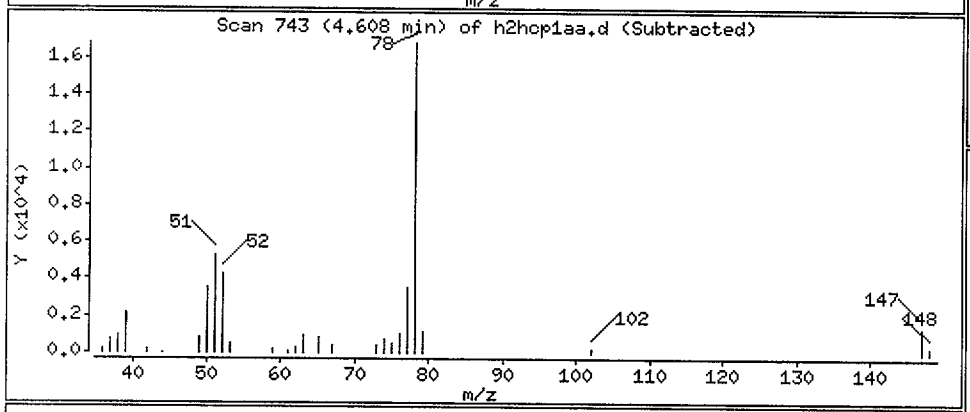
Column diameter: 0.18

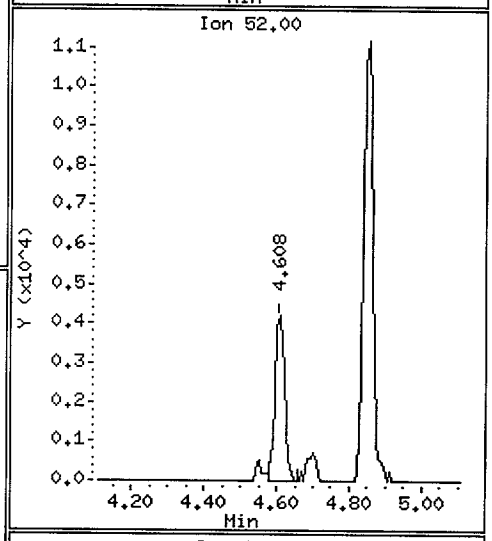
43 Benzene

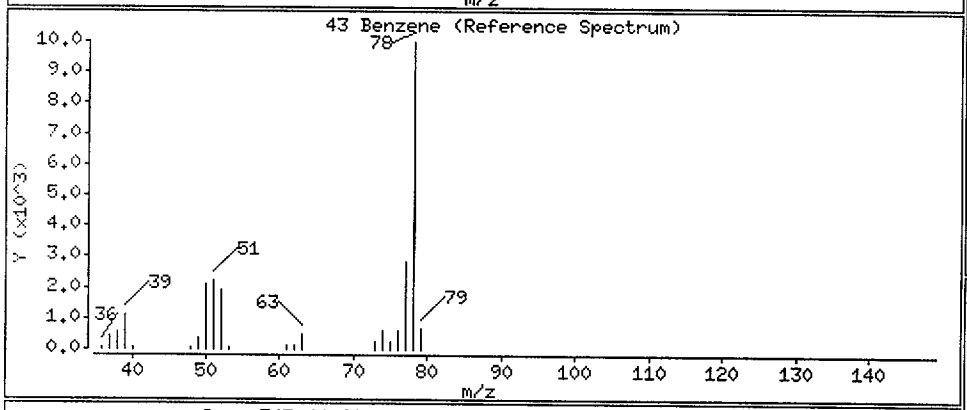
Concentration: 0.0068560 ug

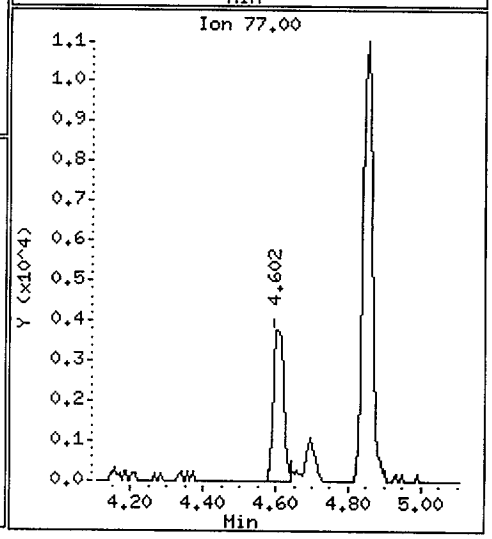


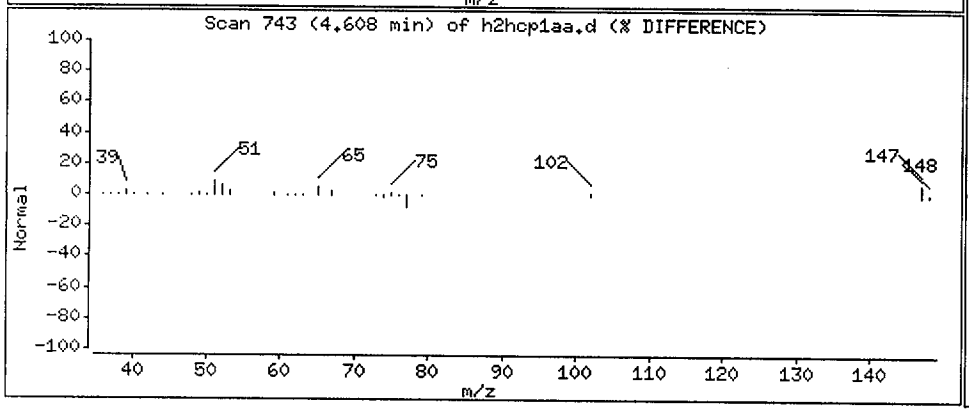












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

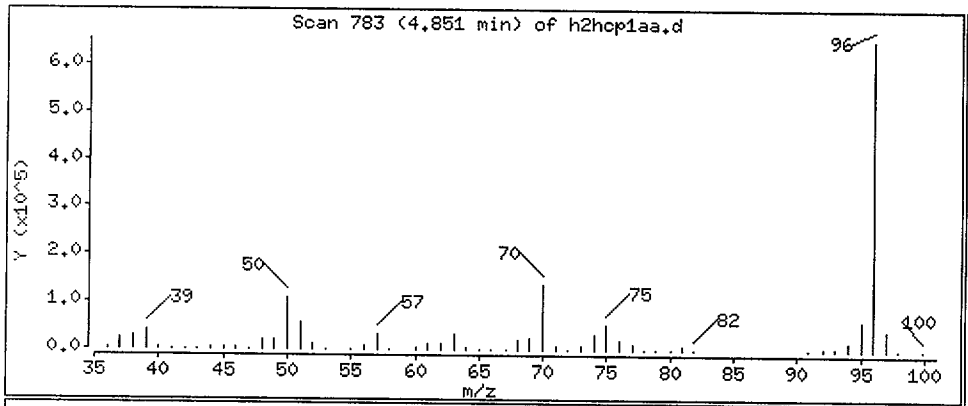
Operator: 22980

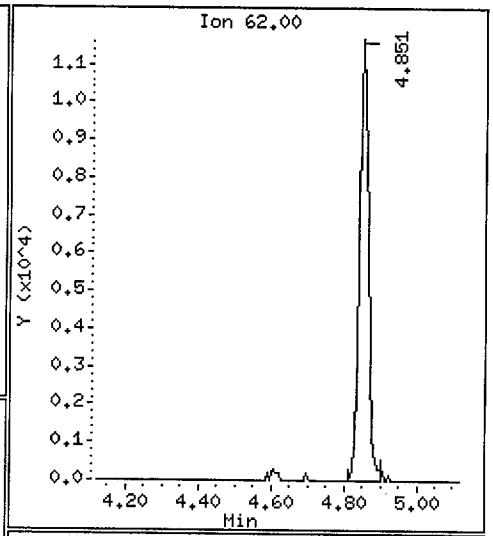
Column phase: J+W 624

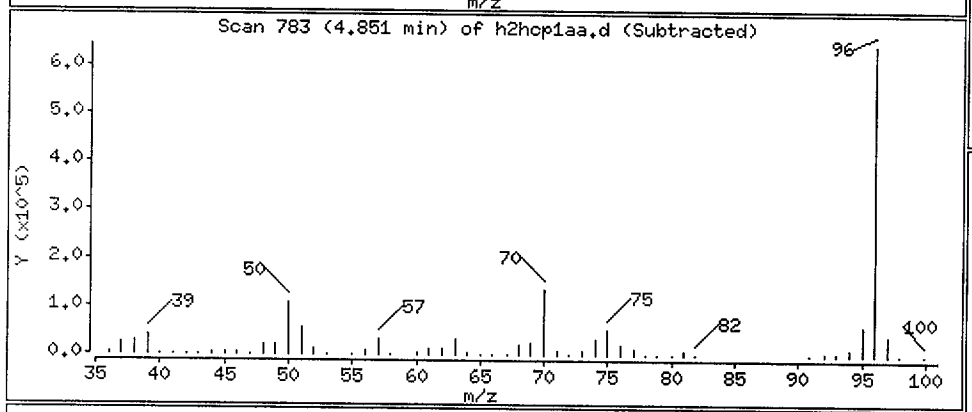
Column diameter: 0.18

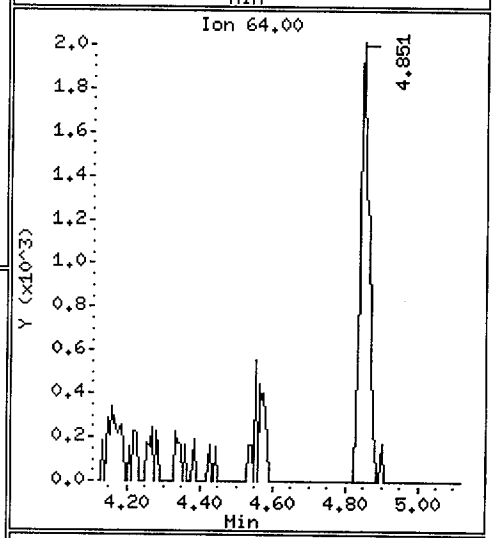
44 1,2-Dichloroethane

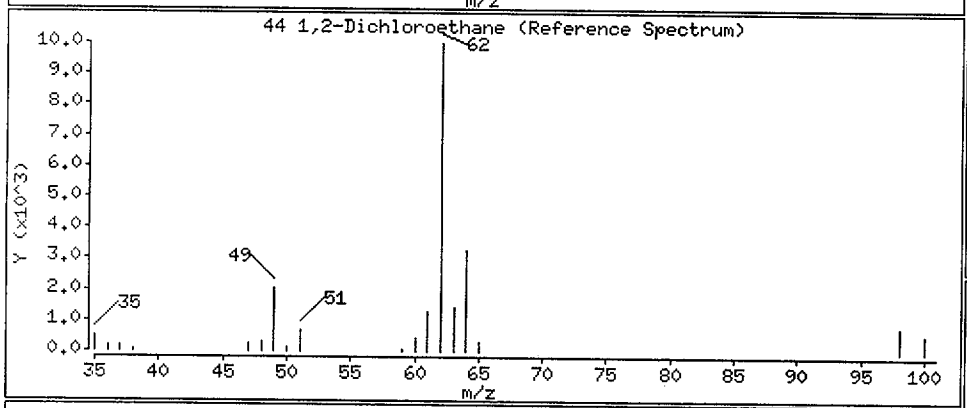
Concentration: 0.026109 ug

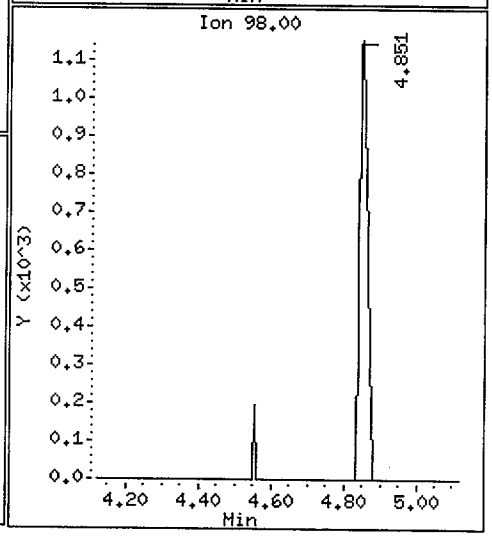


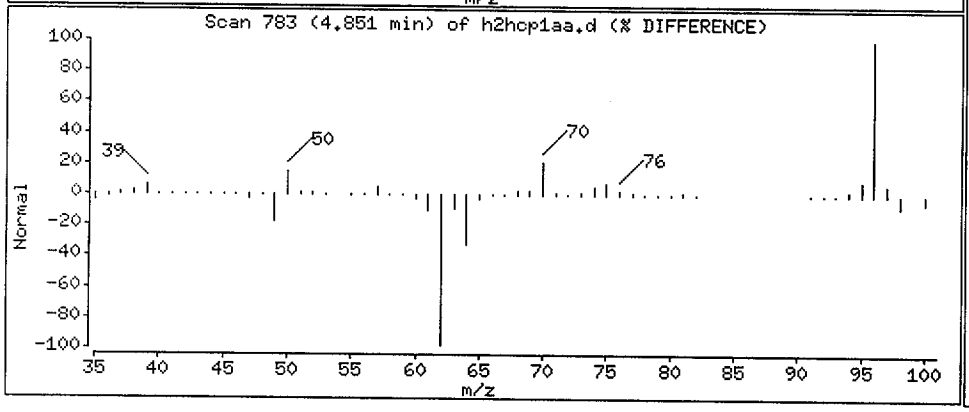












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

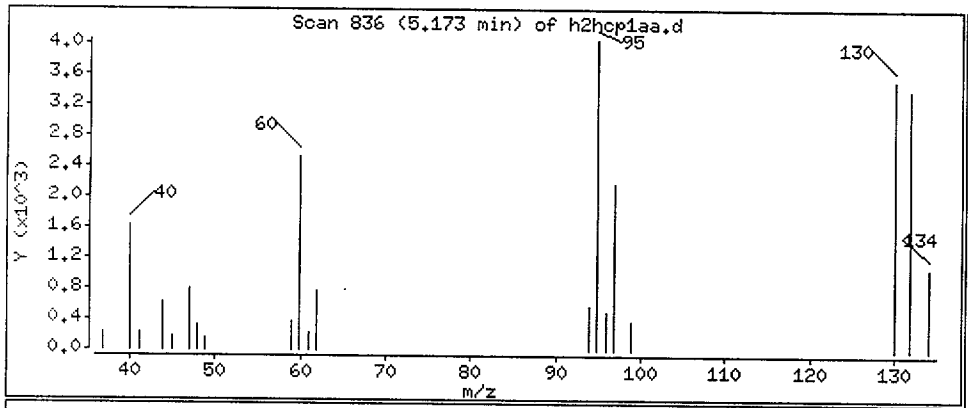
Operator: 22980

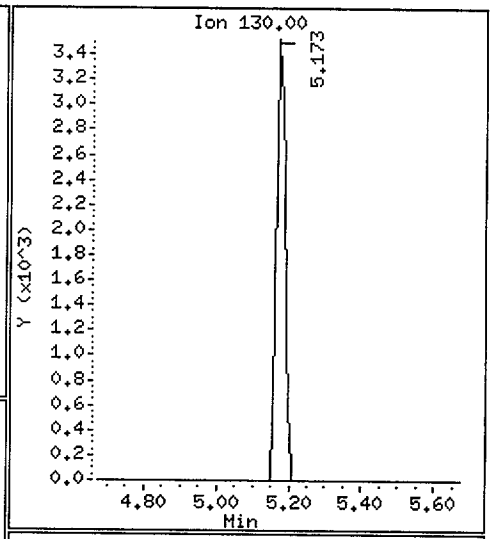
Column phase: J+W 624

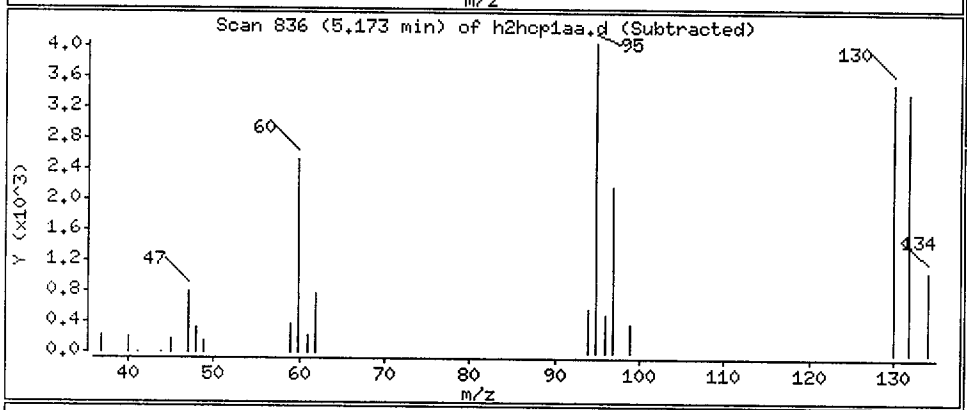
Column diameter: 0.18

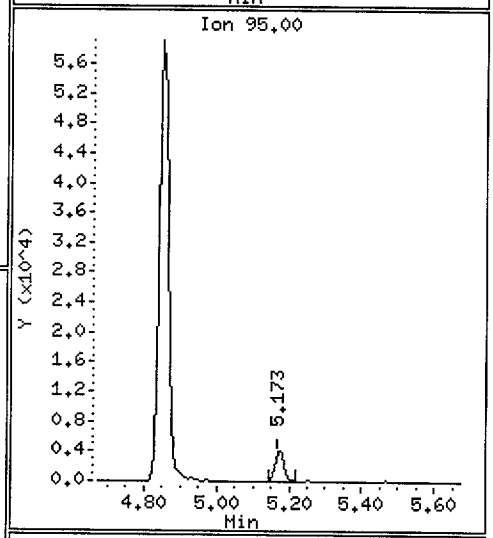
45 Trichloroethene

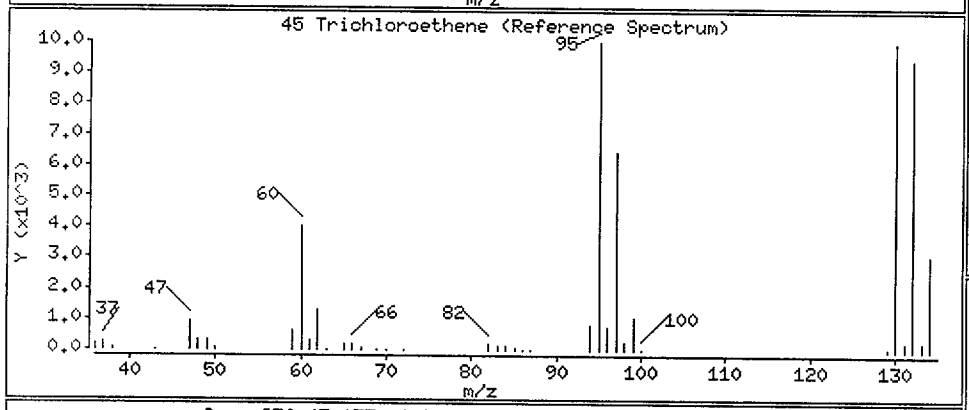
Concentration: 0.0046578 ug

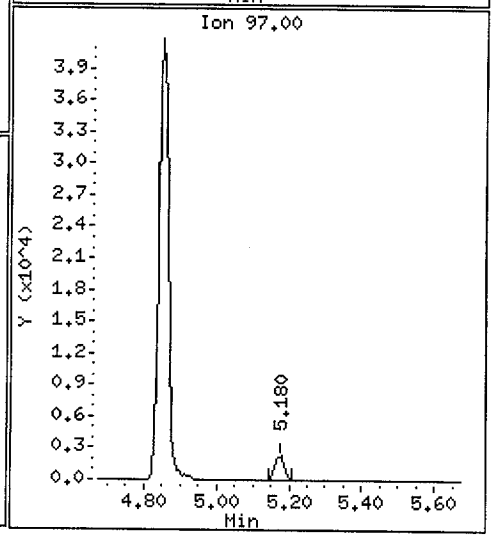


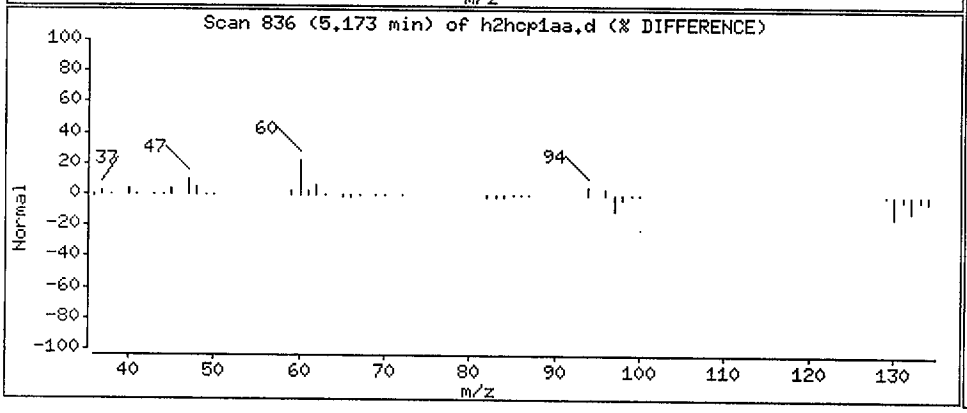












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

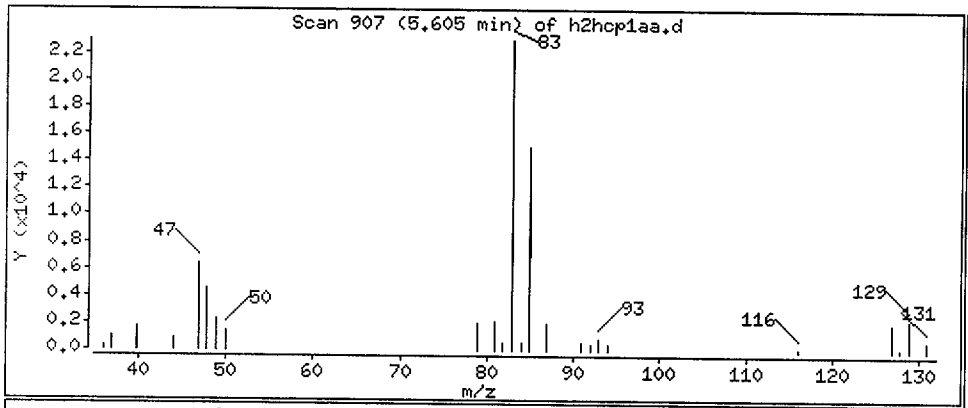
Operator: 22980

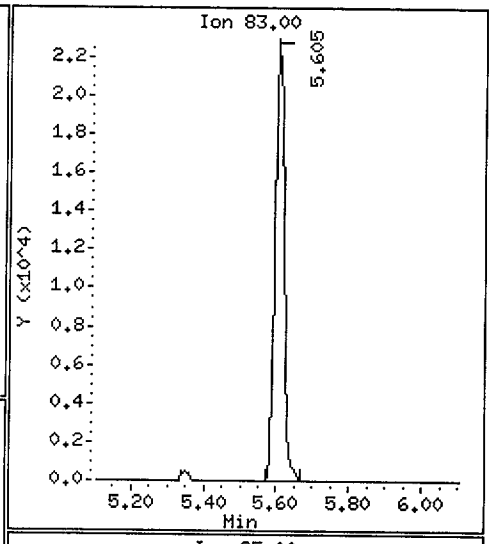
Column phase: J+W 624

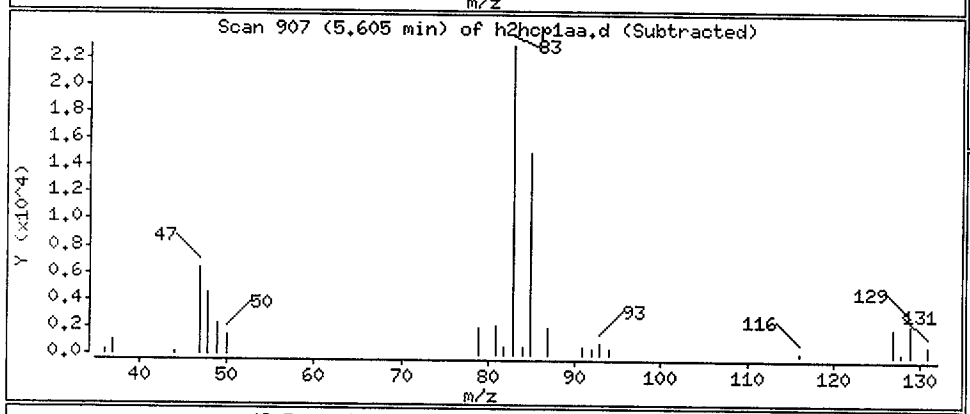
Column diameter: 0.18

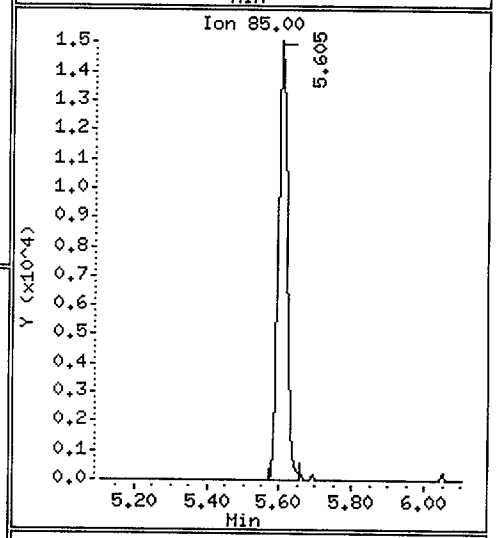
49 Bromodichloromethane

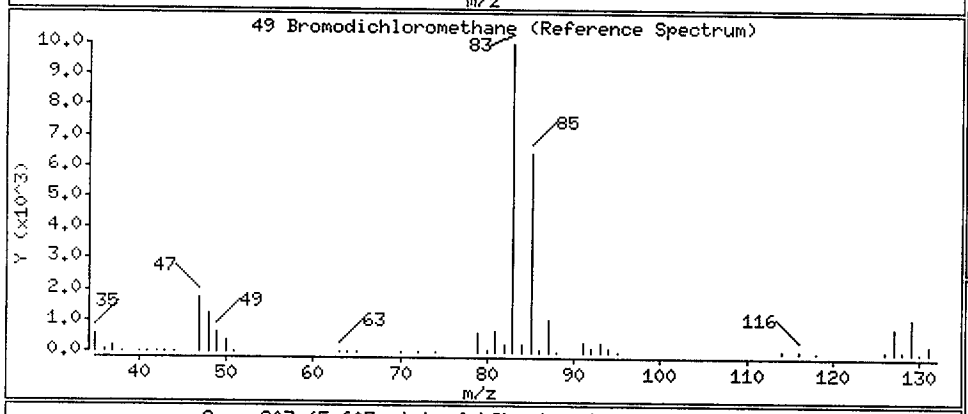
Concentration: 0.040415 ug

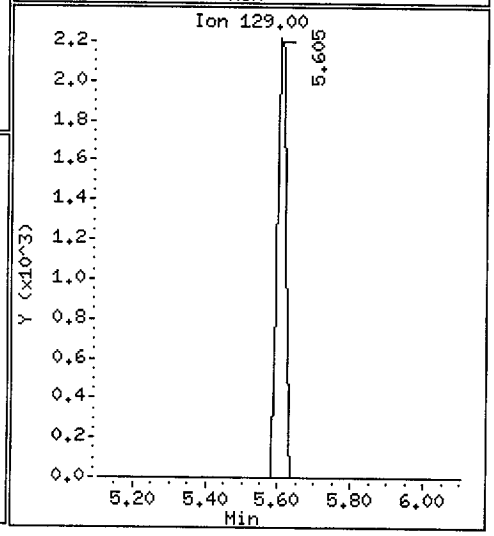


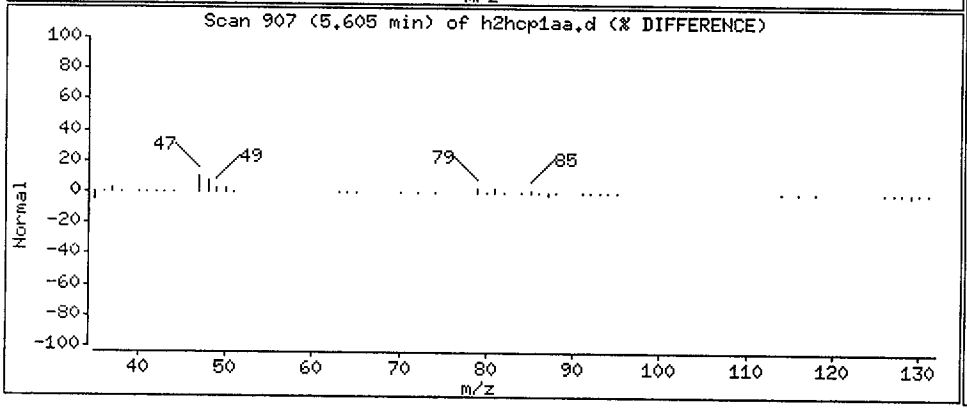












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

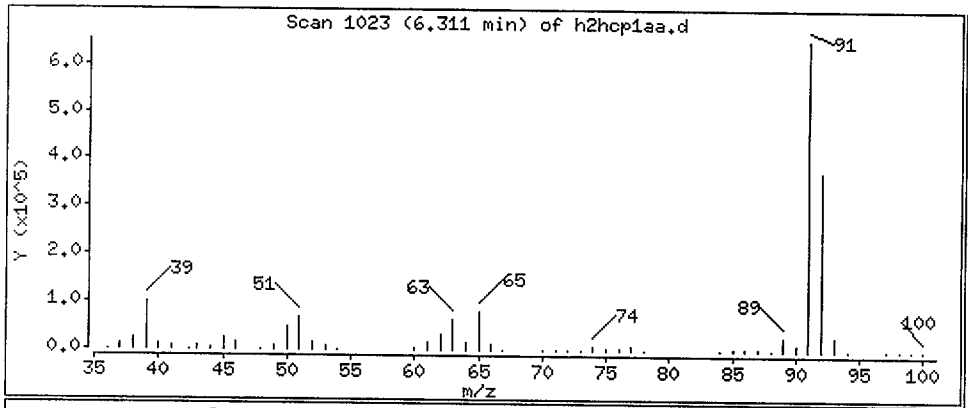
Operator: 22980

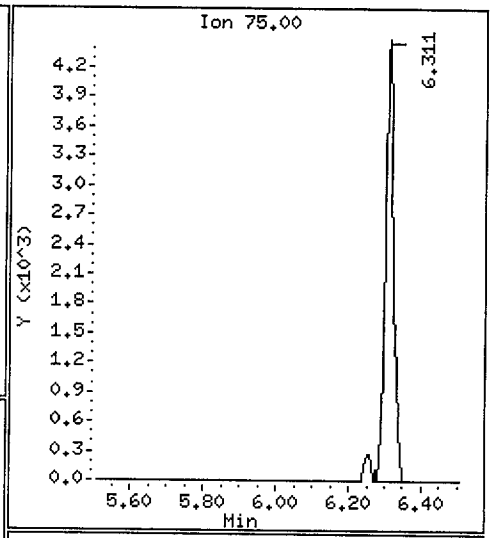
Column phase: J+W 624

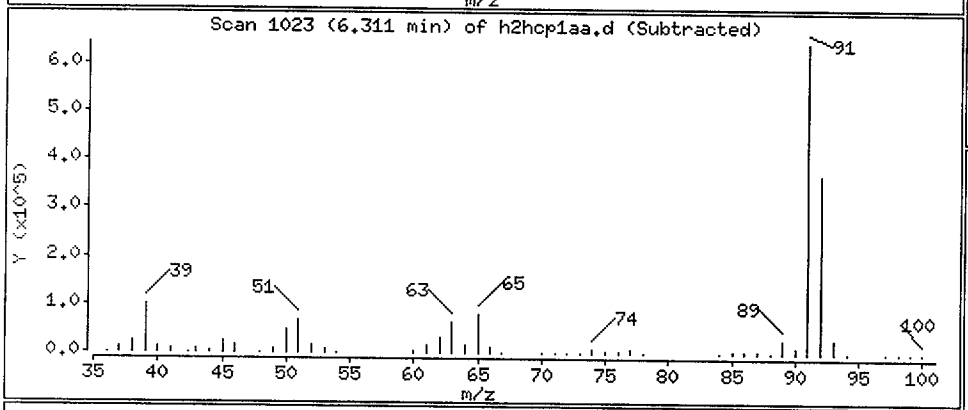
Column diameter: 0.18

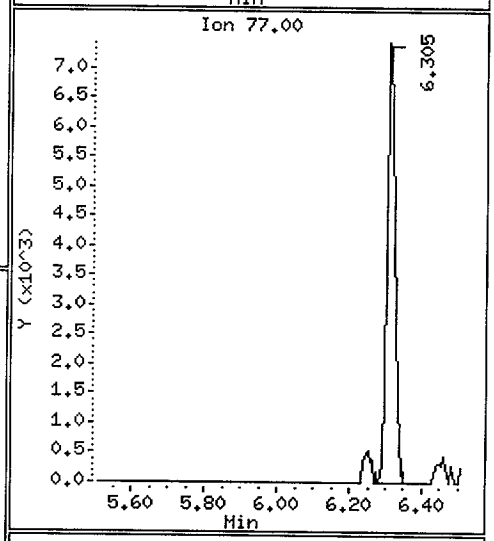
51 cis-1,3-Dichloropropene

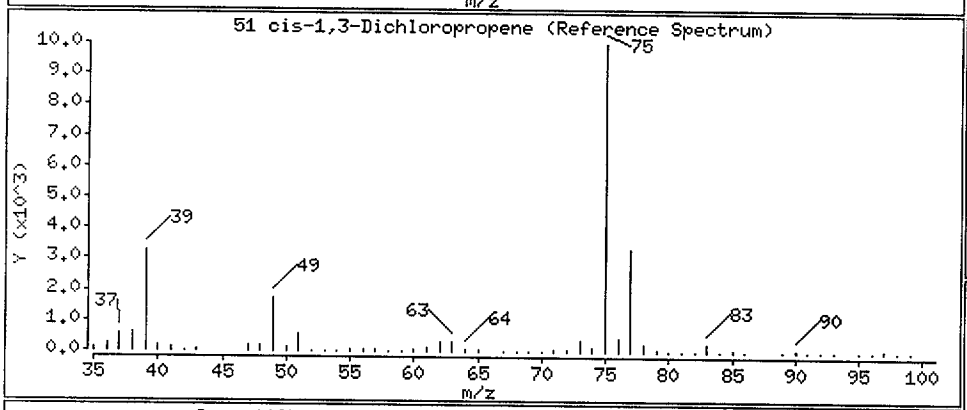
Concentration: 0.0067083 ug

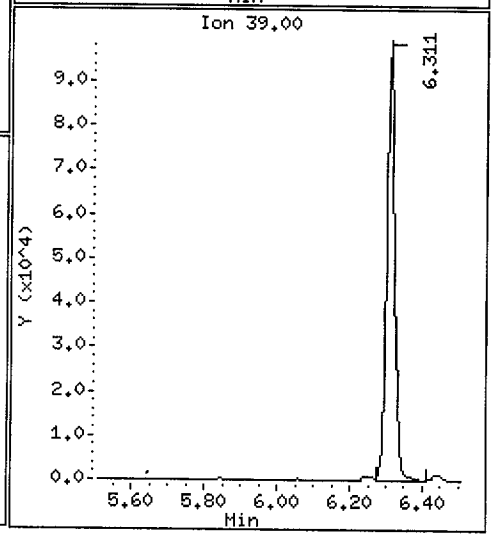


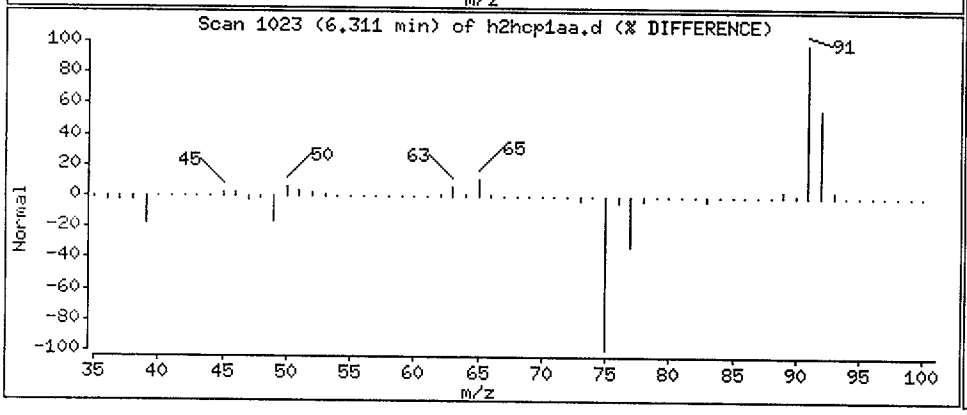












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

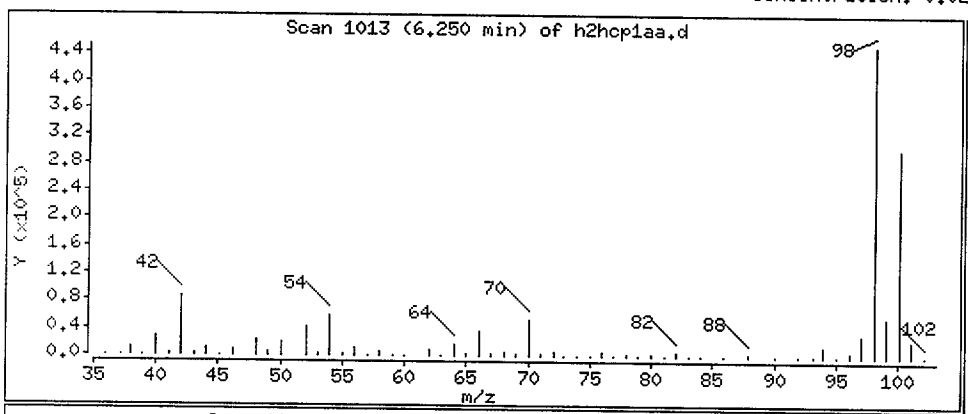
Operator: 22980

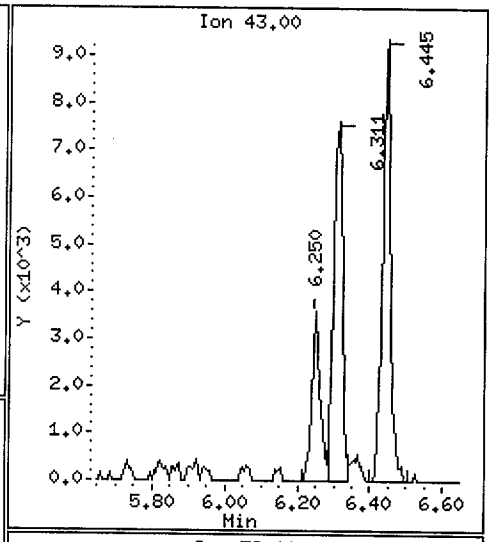
Column phase: J+W 624

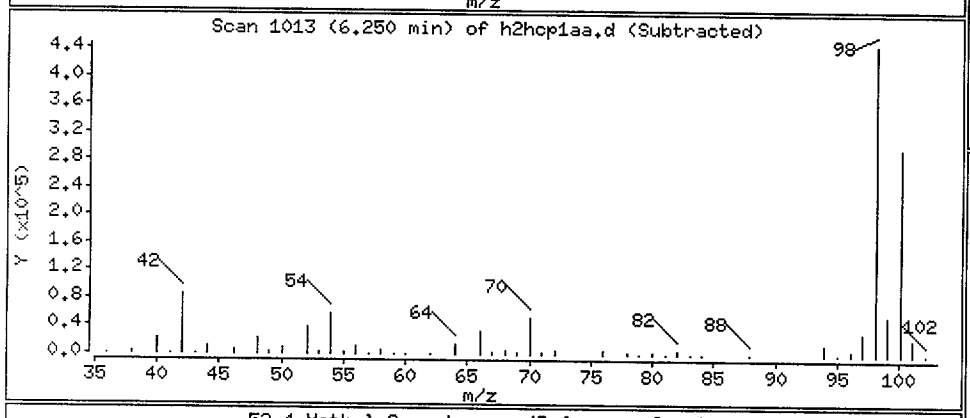
Column diameter: 0.18

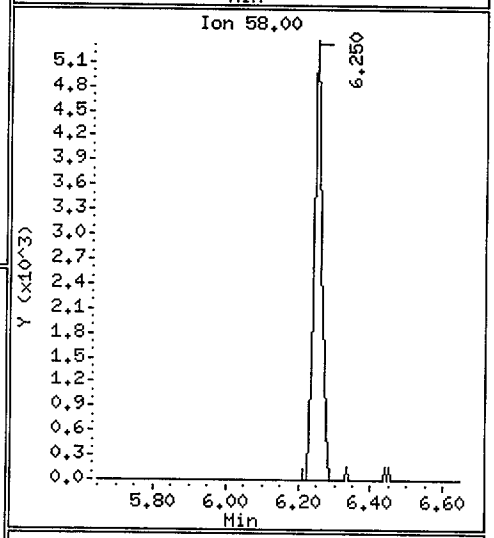
52 4-Methyl-2-pentanone

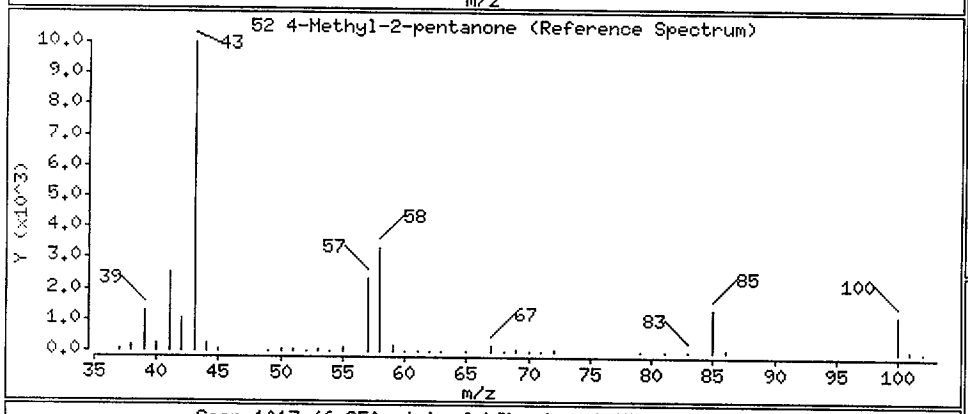
Concentration: 0.025527 ug

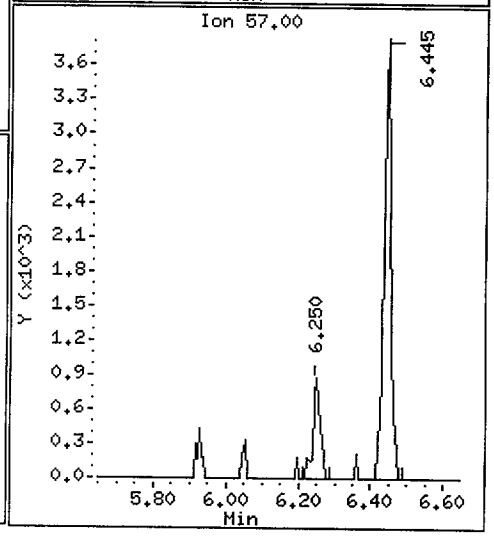


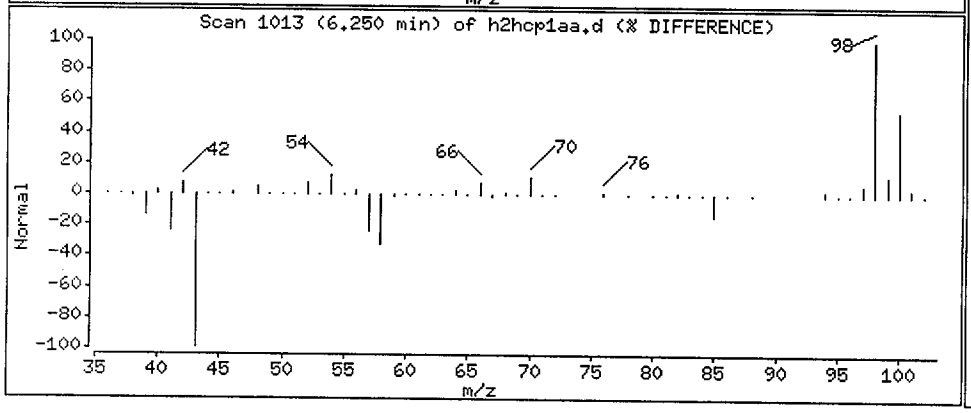












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

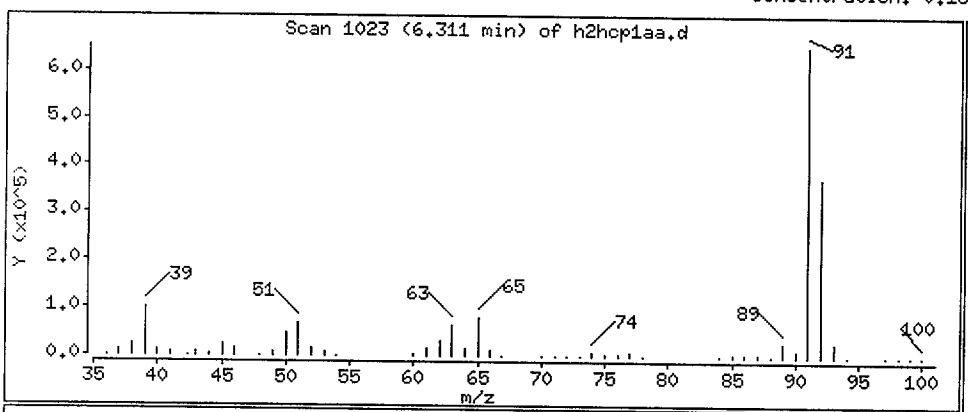
Operator: 22980

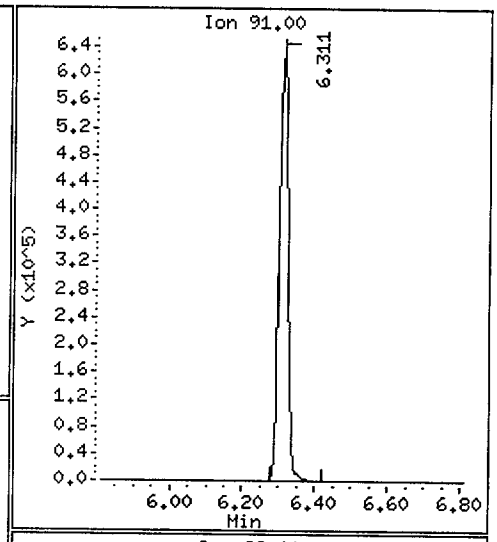
Column phase: J+W 624

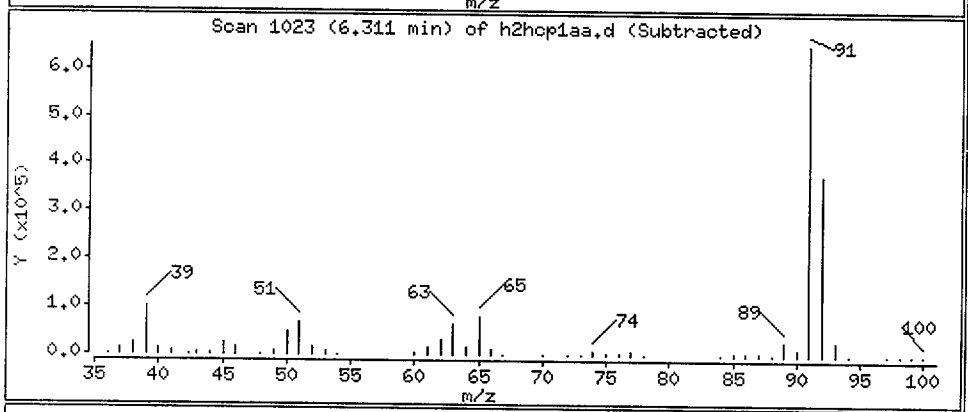
Column diameter: 0.18

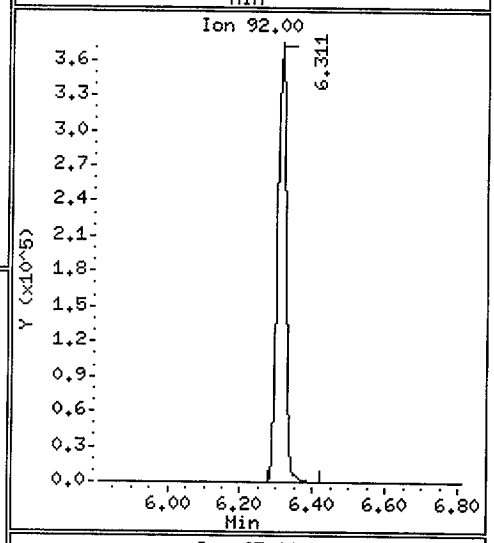
53 Toluene (ccc)

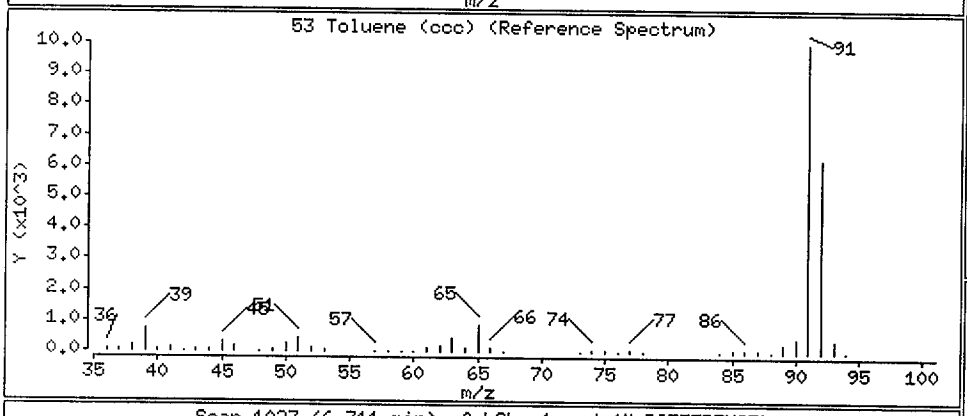
Concentration: 0.18920 ug

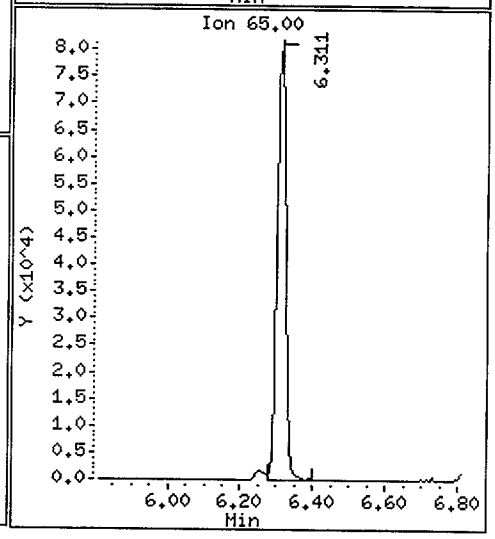


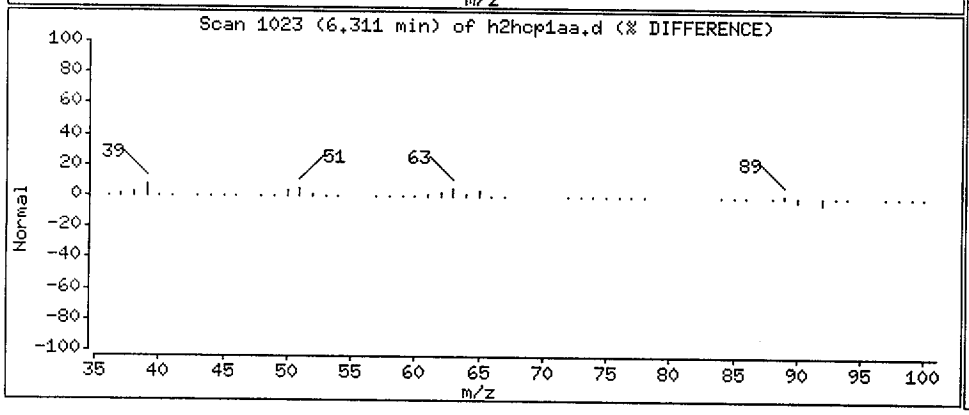












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

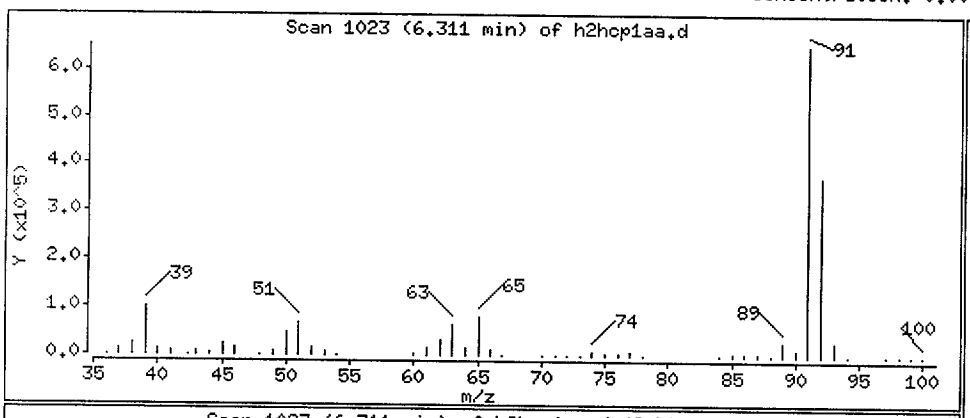
Operator: 22980

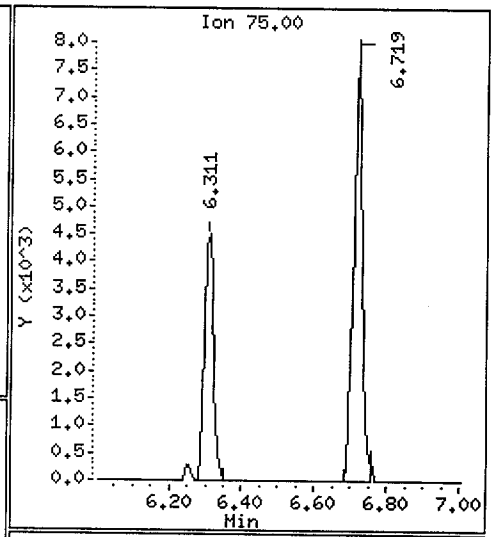
Column phase: J+W 624

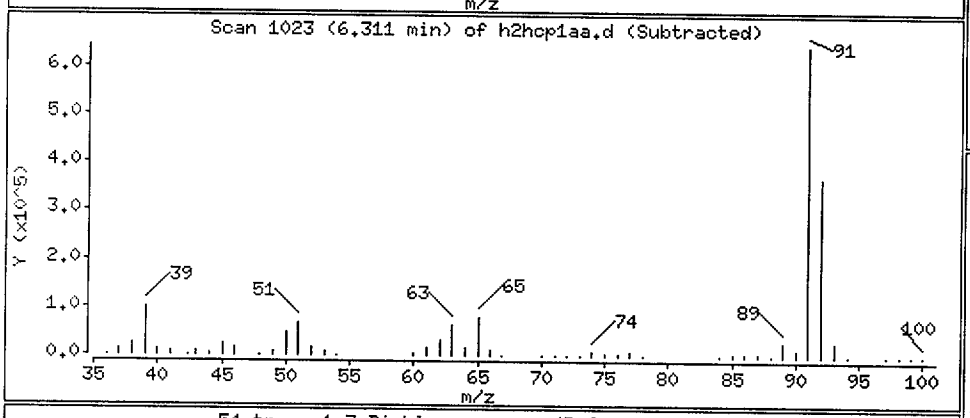
Column diameter: 0.18

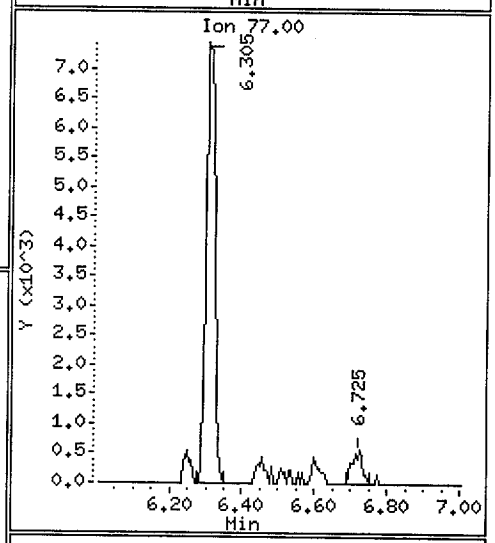
54 trans-1,3-Dichloropropene

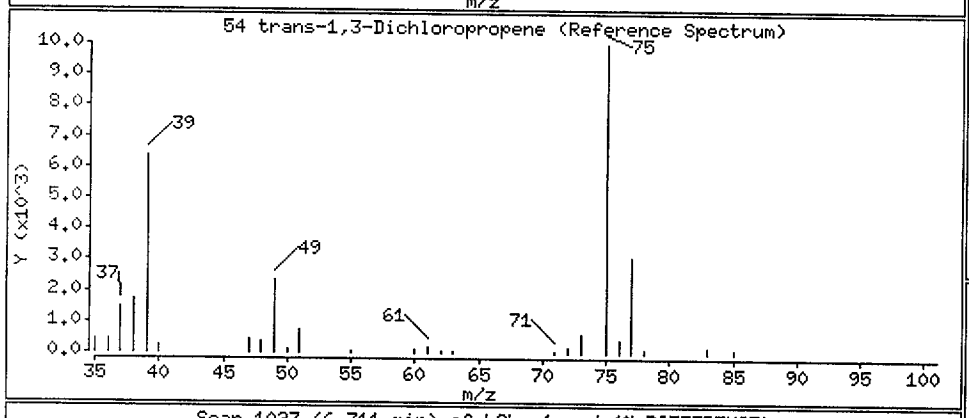
Concentration: 0.0078874 ug

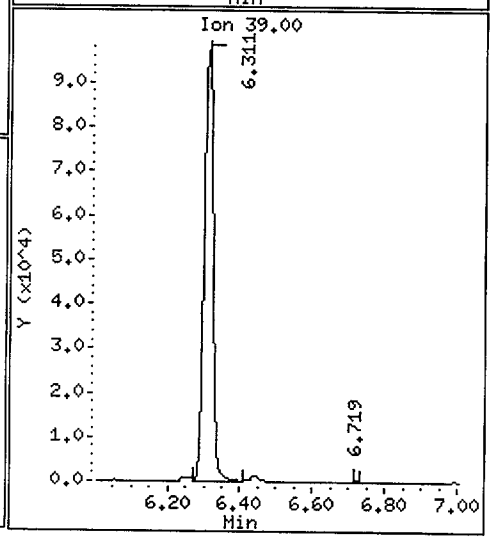


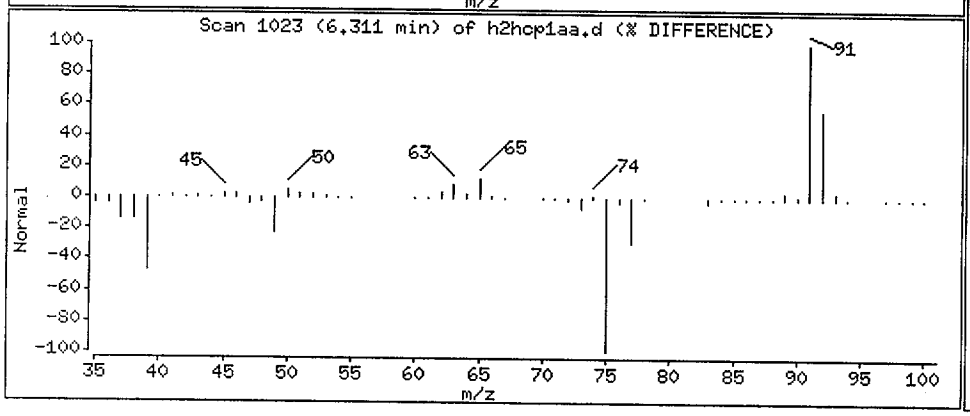












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

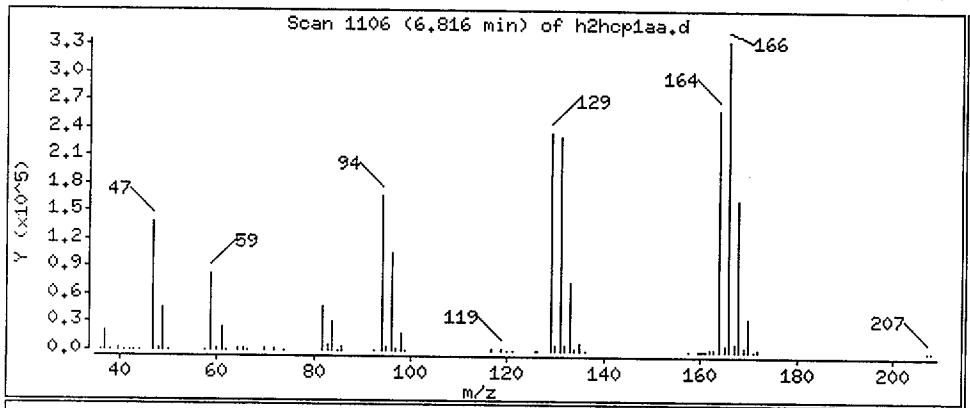
Operator: 22980

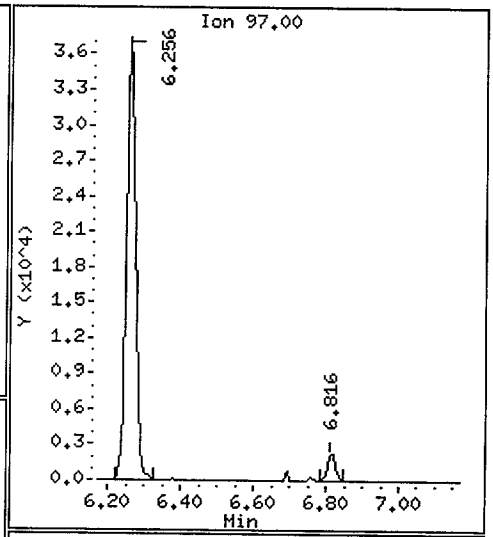
Column phase: J+W 624

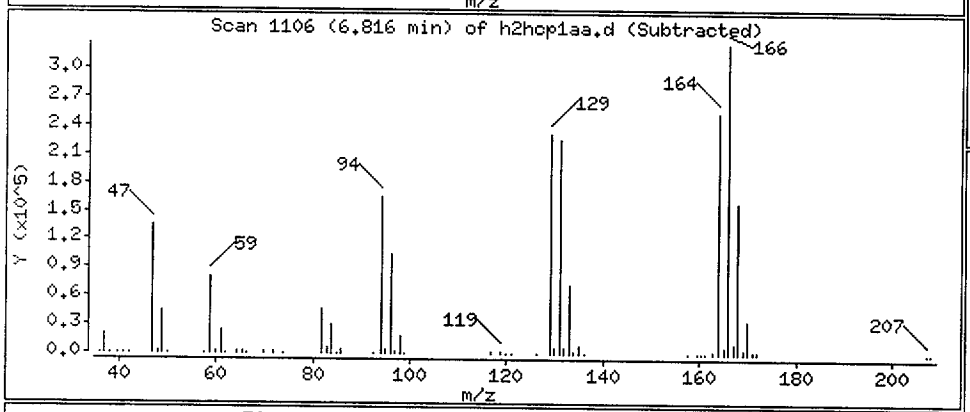
Column diameter: 0.18

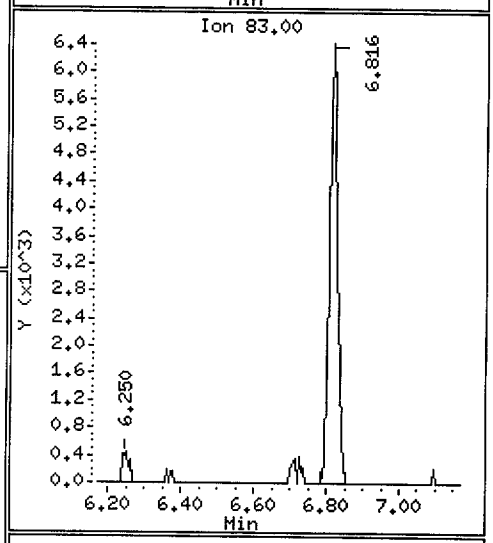
56 1,1,2-Trichloroethane

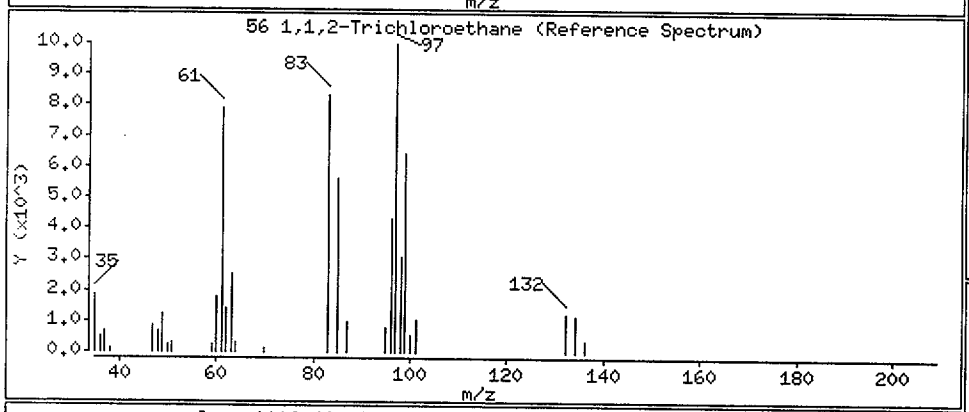
Concentration: 0.0086850 ug

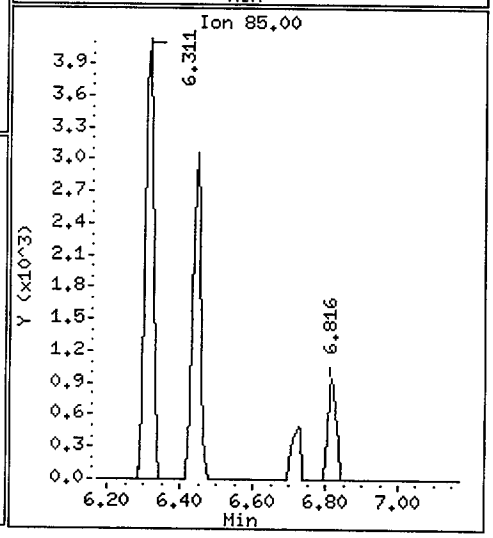


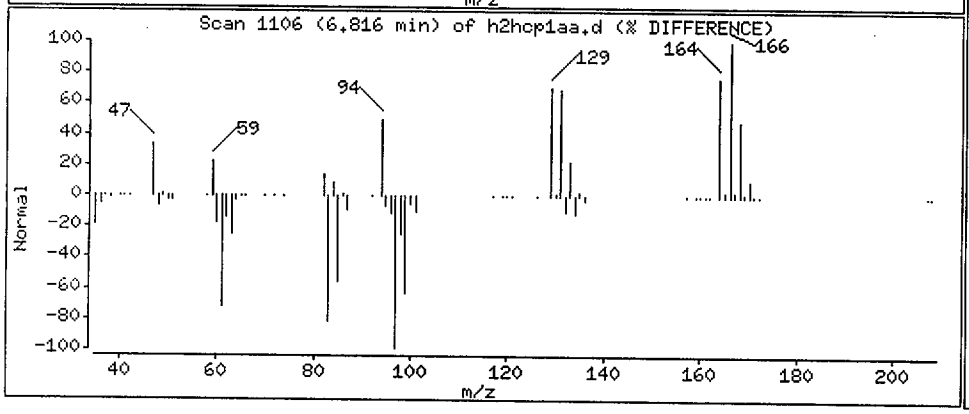












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

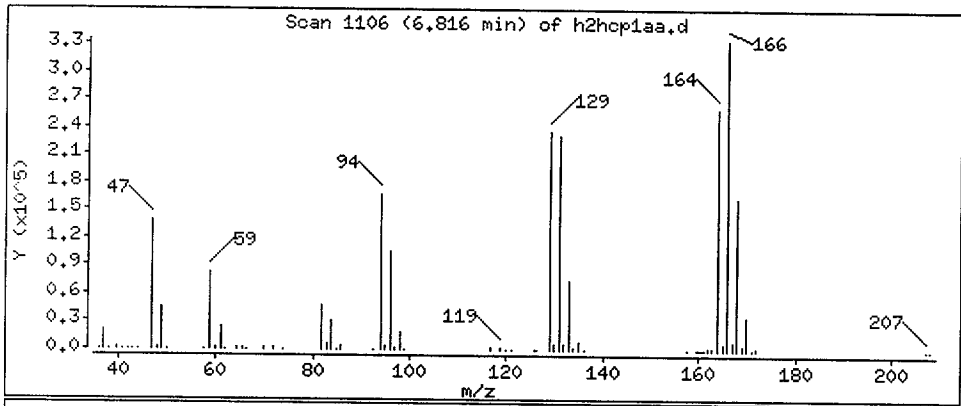
Operator: 22980

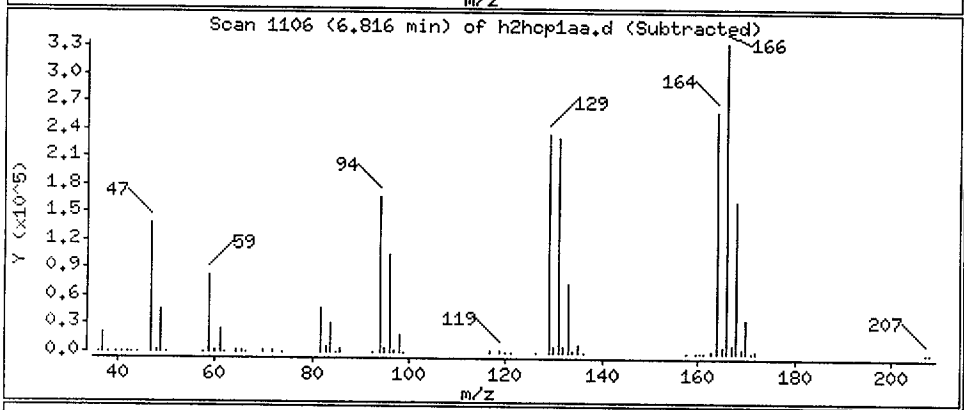
Column phase: J+W 624

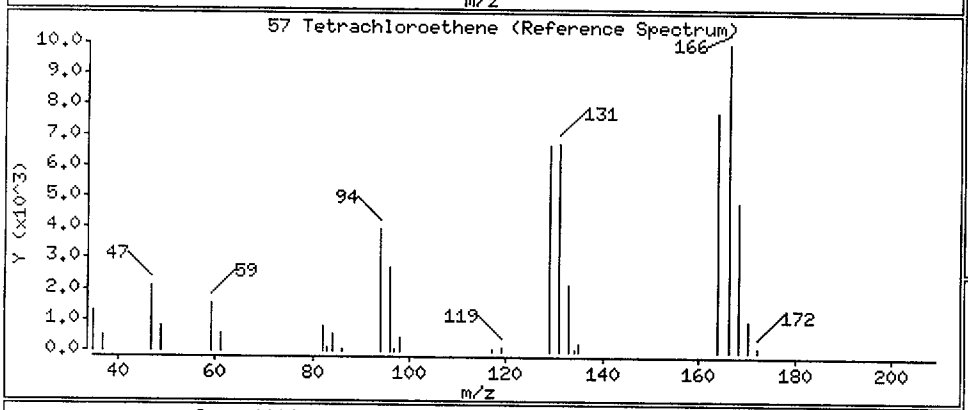
Column diameter: 0.18

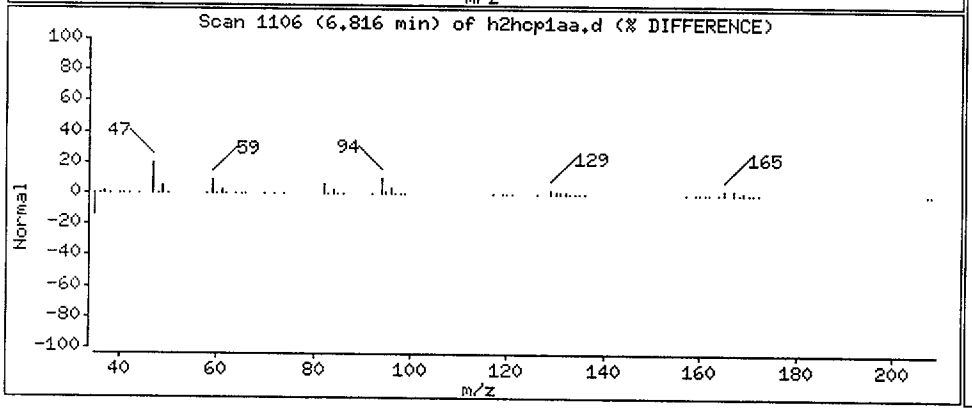
57 Tetrachloroethene

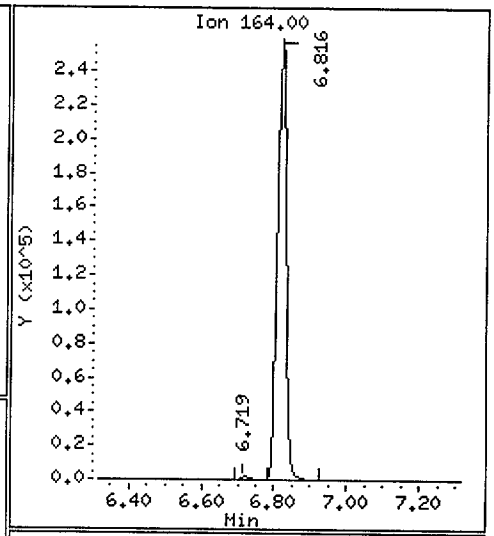
Concentration: 0.36269 ug

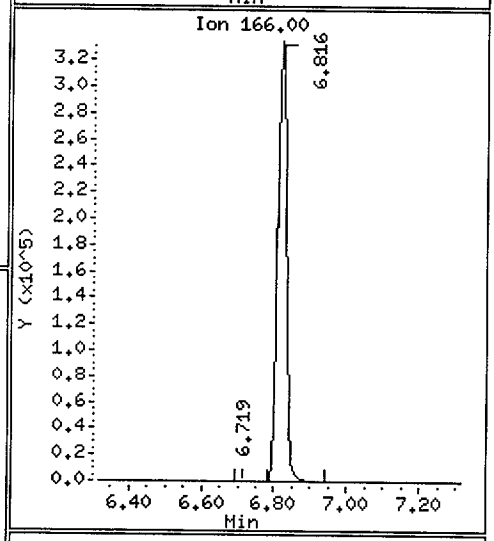


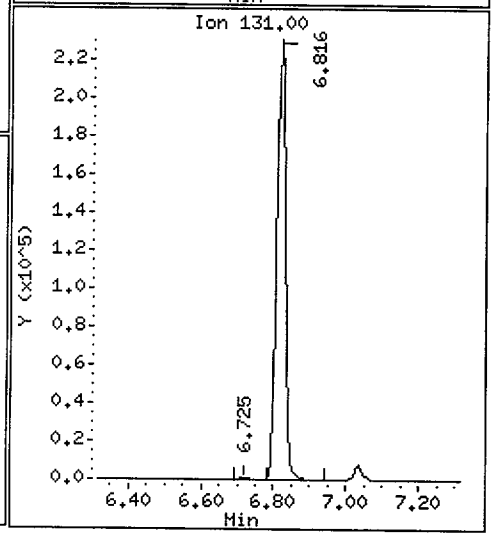












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

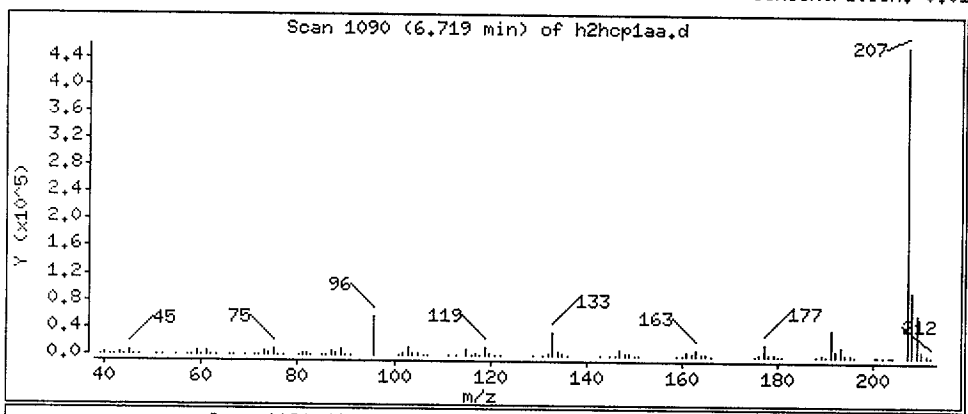
Operator: 22980

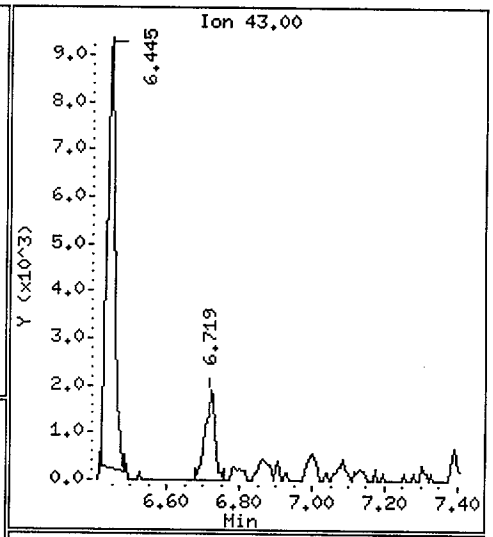
Column phase: J+W 624

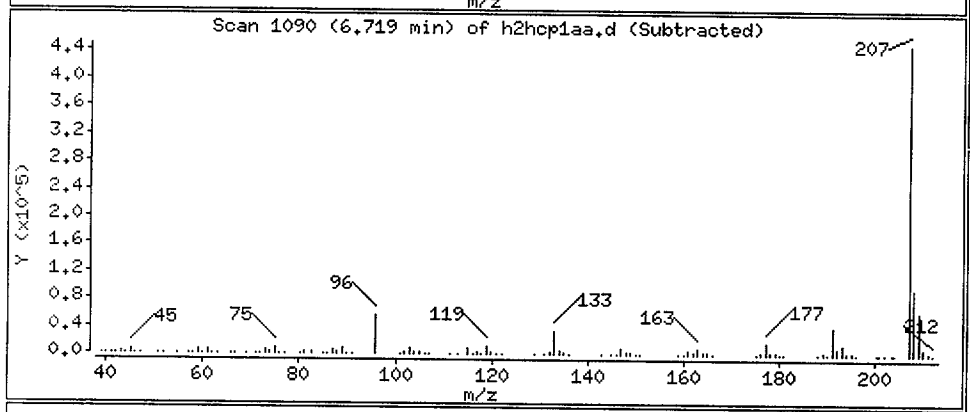
Column diameter: 0.18

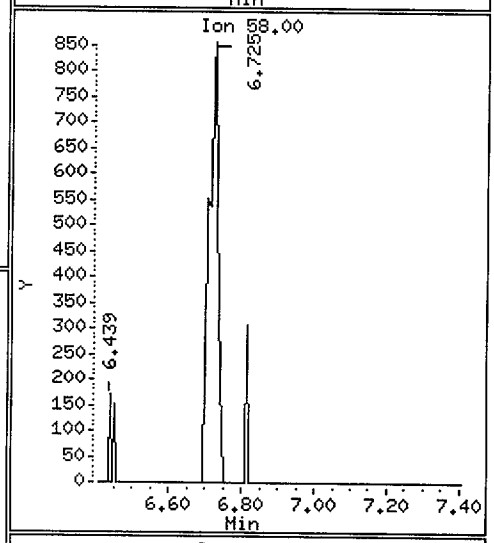
59 2-Hexanone

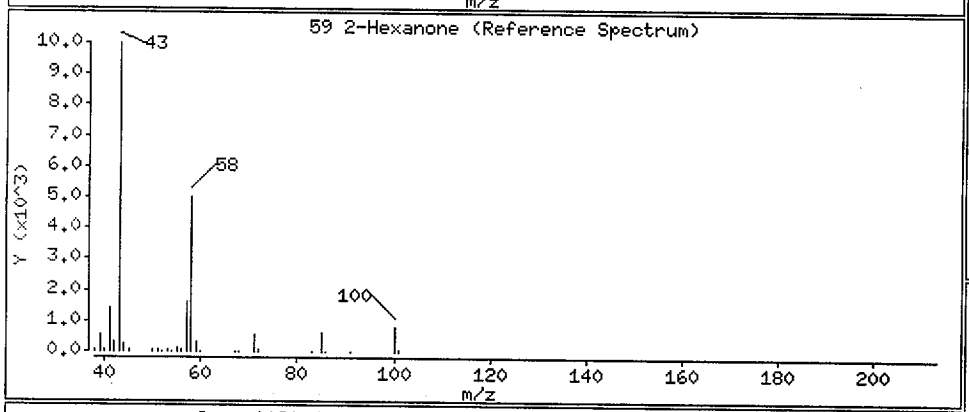
Concentration: 0.019269 ug

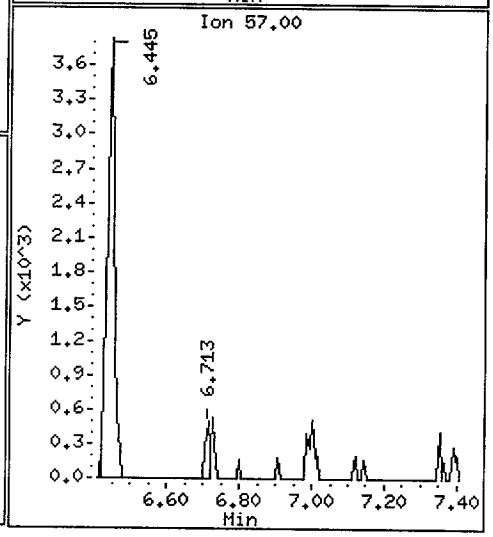


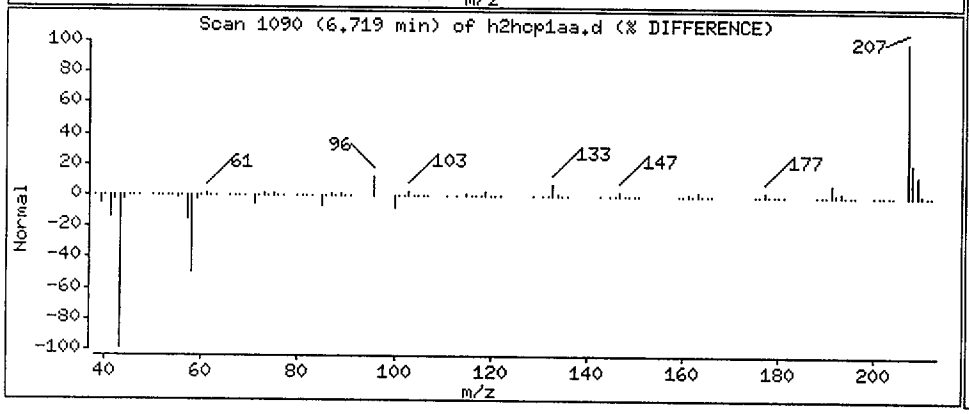












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

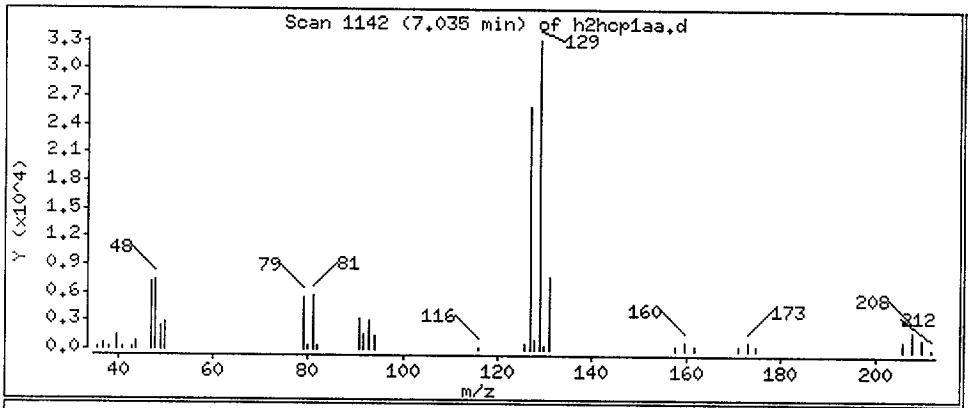
Operator: 22980

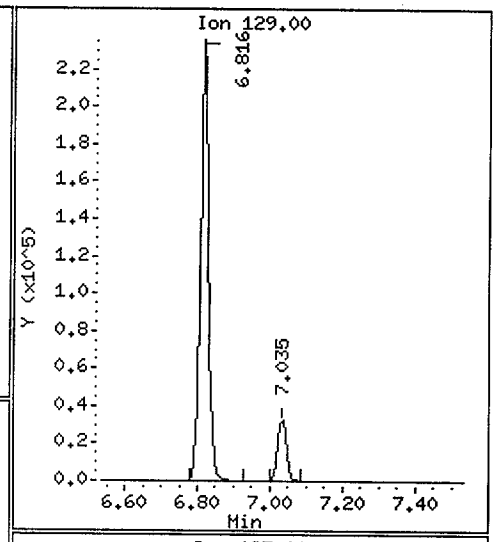
Column phase: J+W 624

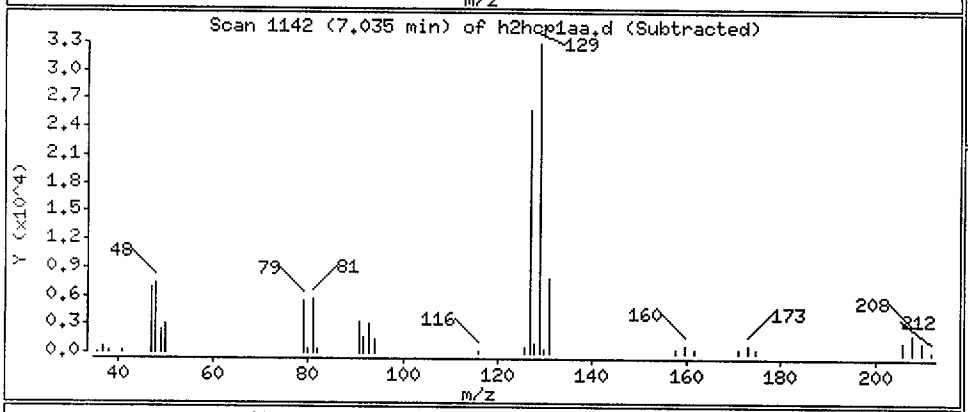
Column diameter: 0.18

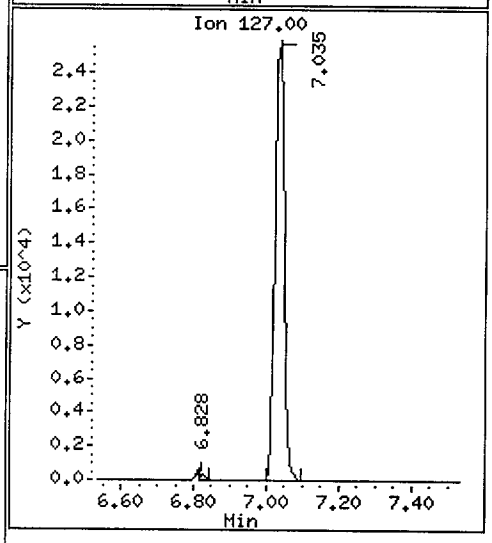
60 Chlorodibromomethane

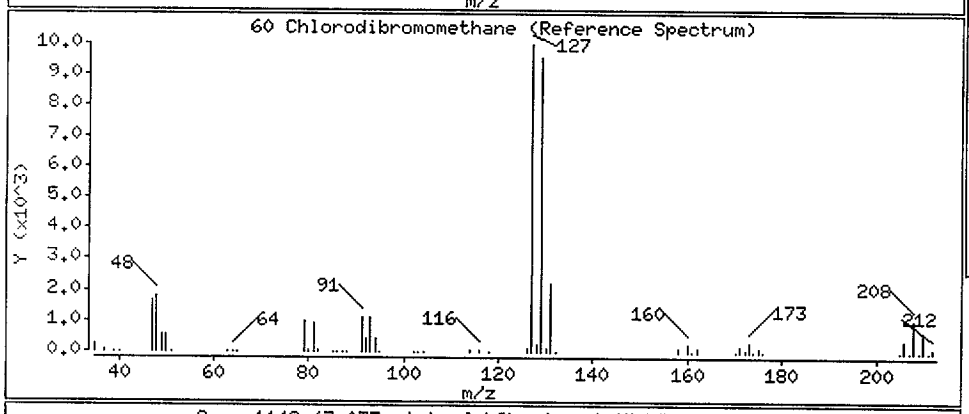
Concentration: 0.10310 ug

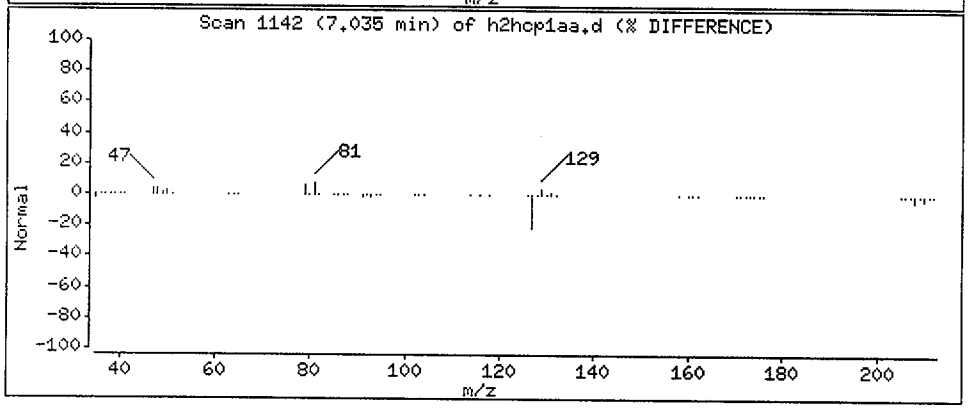












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

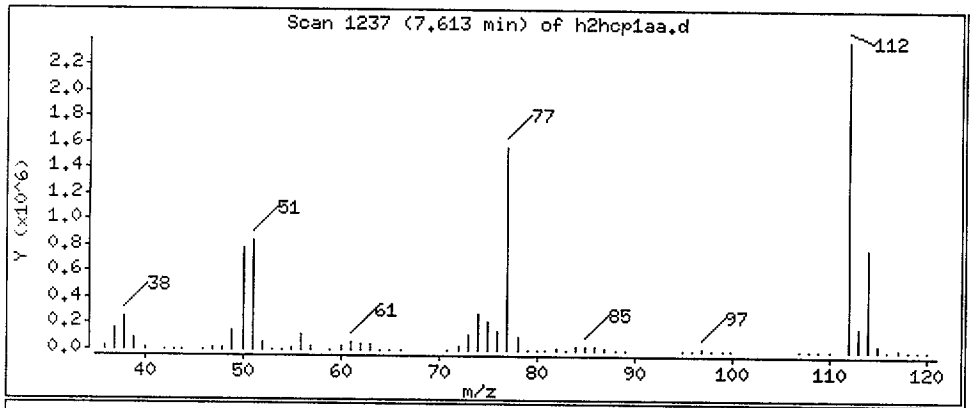
Operator: 22980

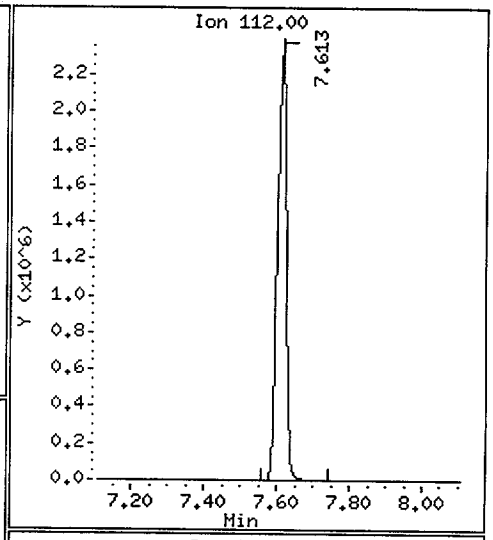
Column phase: J+W 624

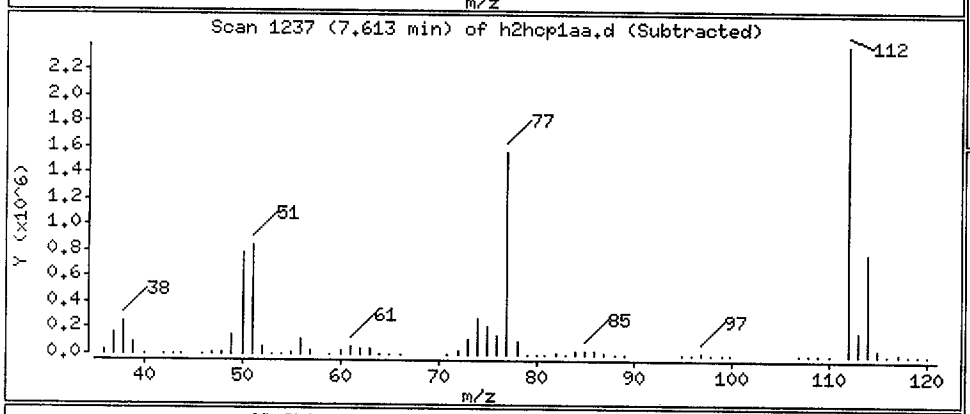
Column diameter: 0.18

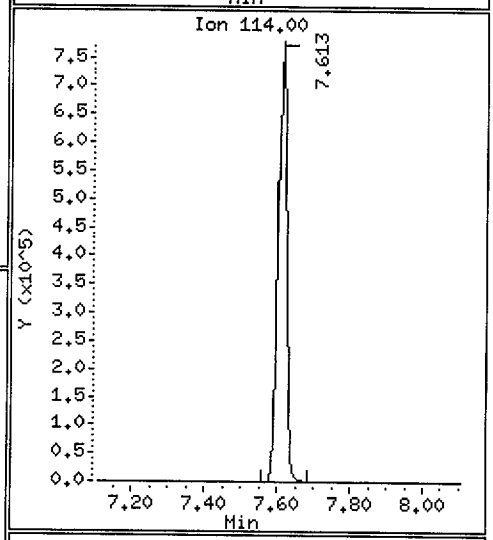
62 Chlorobenzene (spcc)

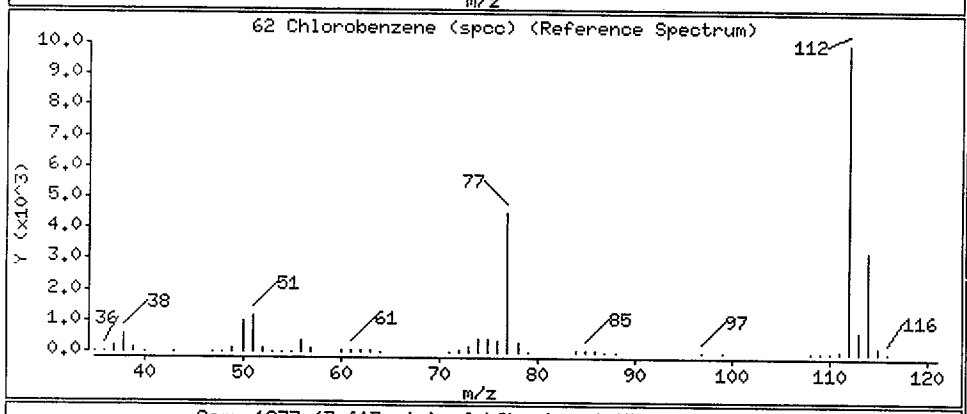
Concentration: 1.4092 ug

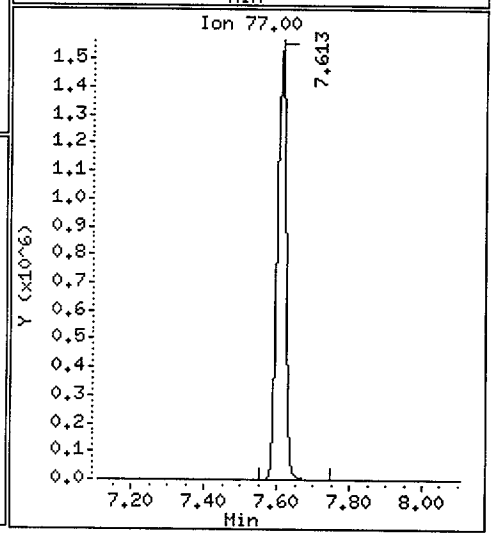


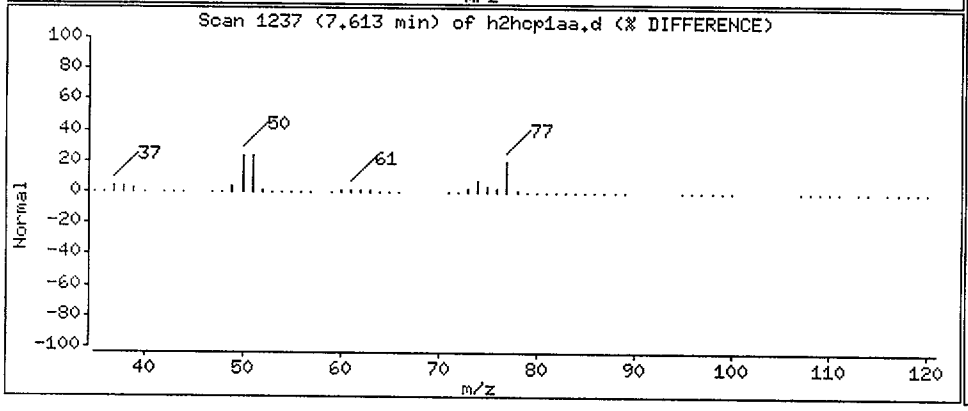












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

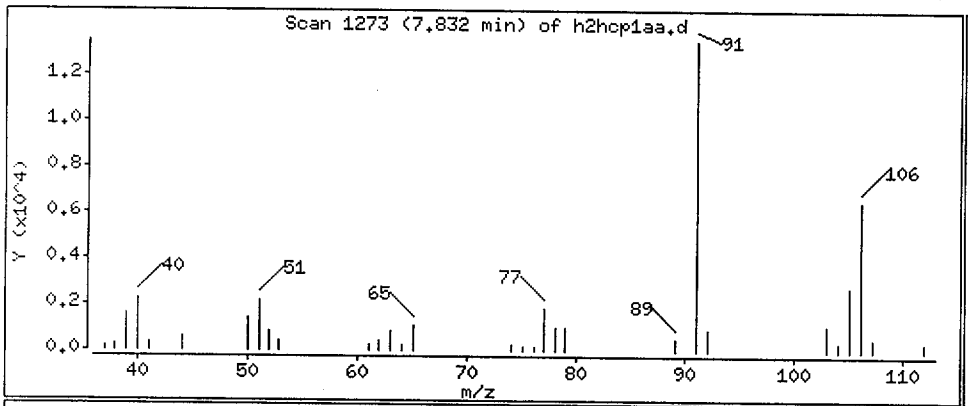
Operator: 22980

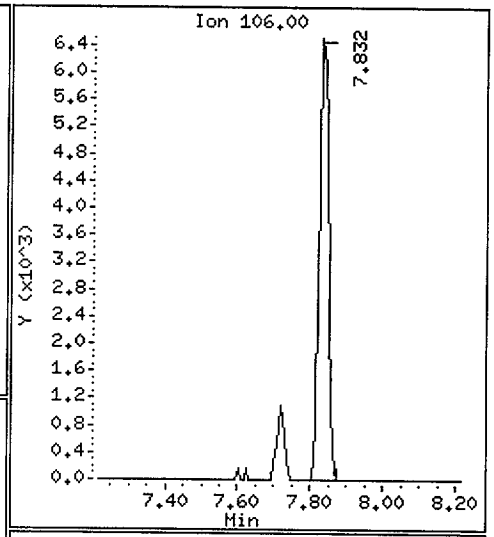
Column phase: J+W 624

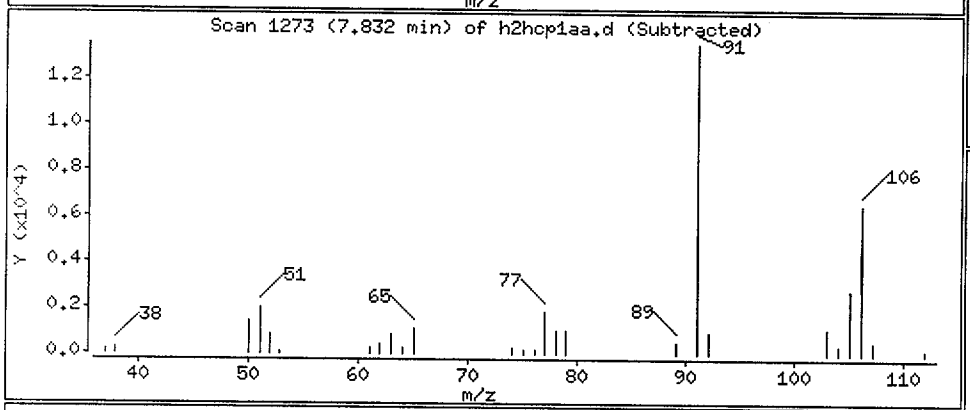
Column diameter: 0.18

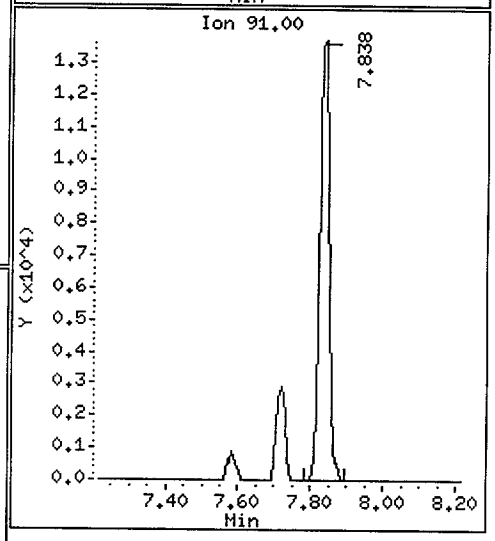
64 Ethylbenzene (ccc)

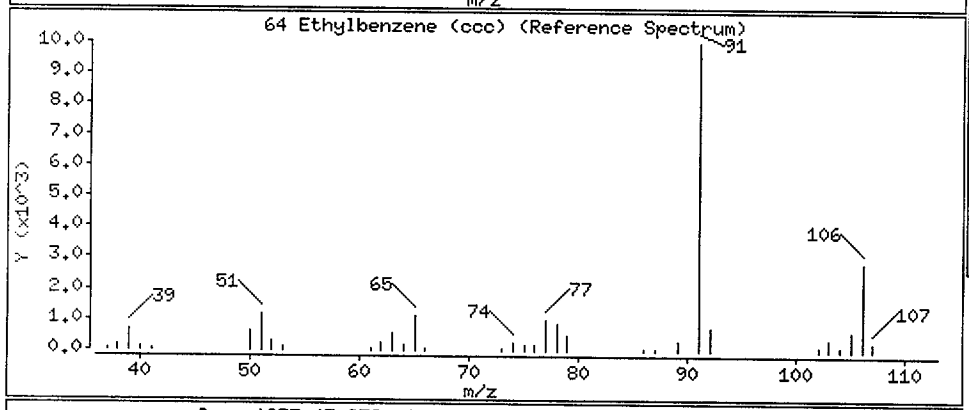
Concentration: 0.0057591 ug

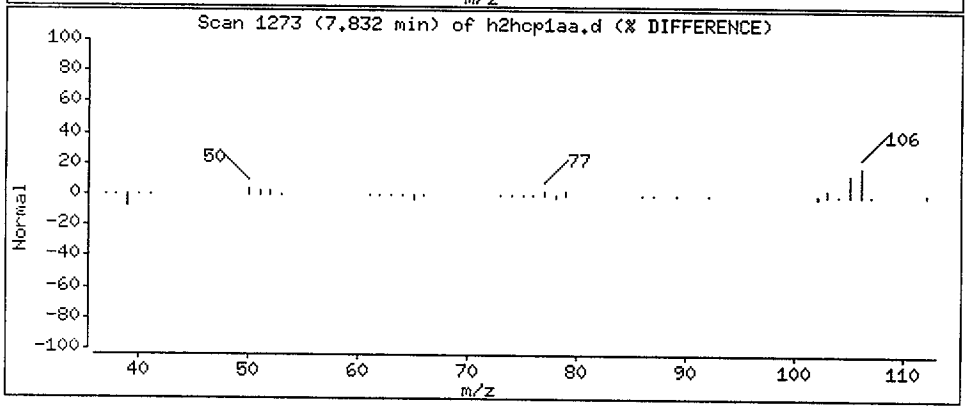












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

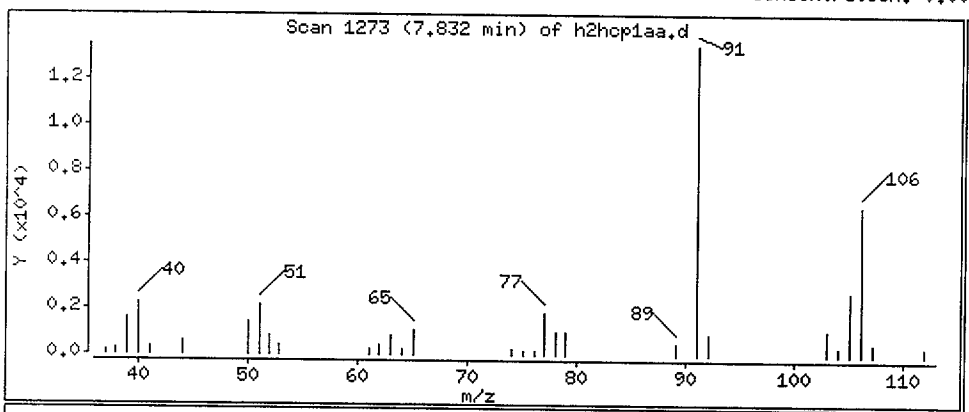
Operator: 22980

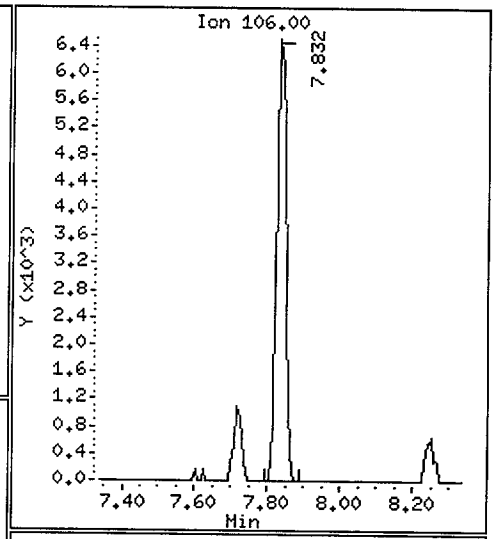
Column phase: J+W 624

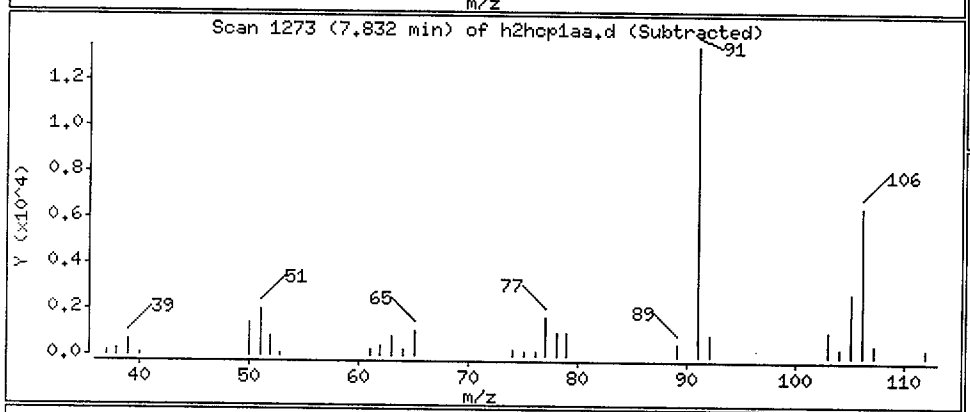
Column diameter: 0.18

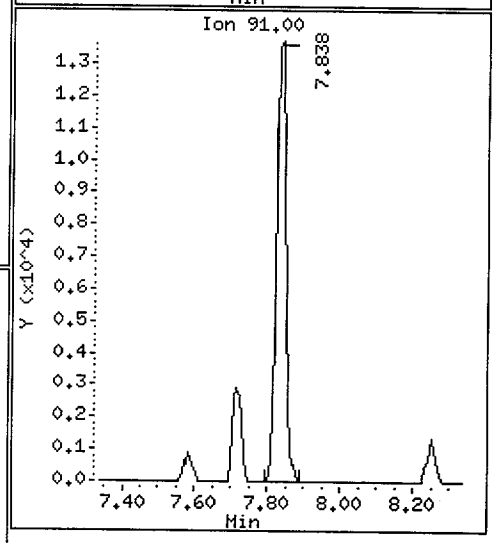
65 m&p-Xylene

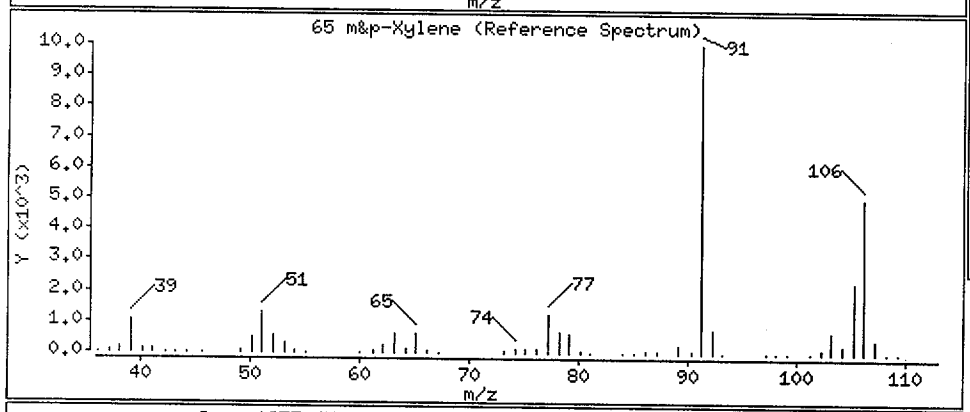
Concentration: 0.0049141 ug

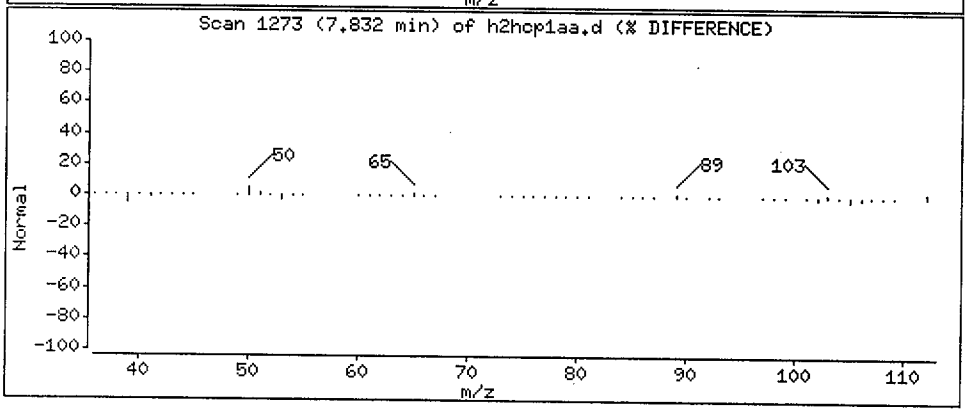












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

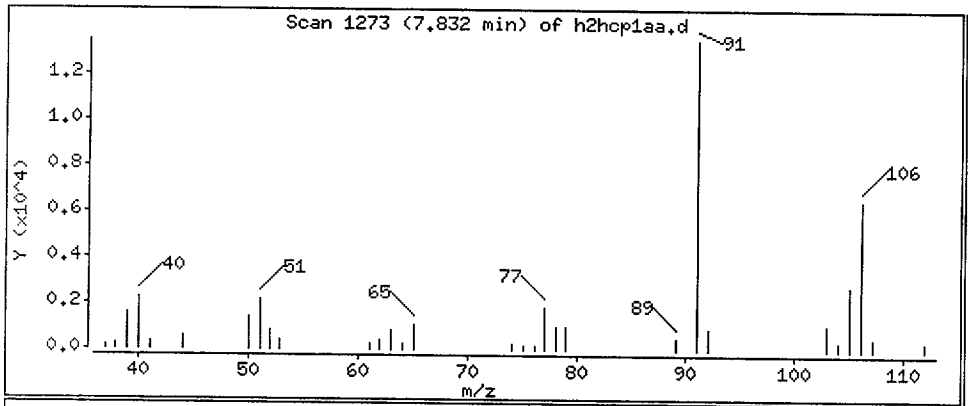
Operator: 22980

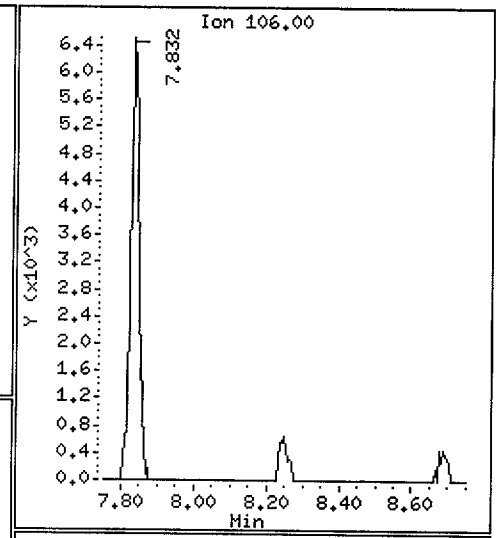
Column phase: J+W 624

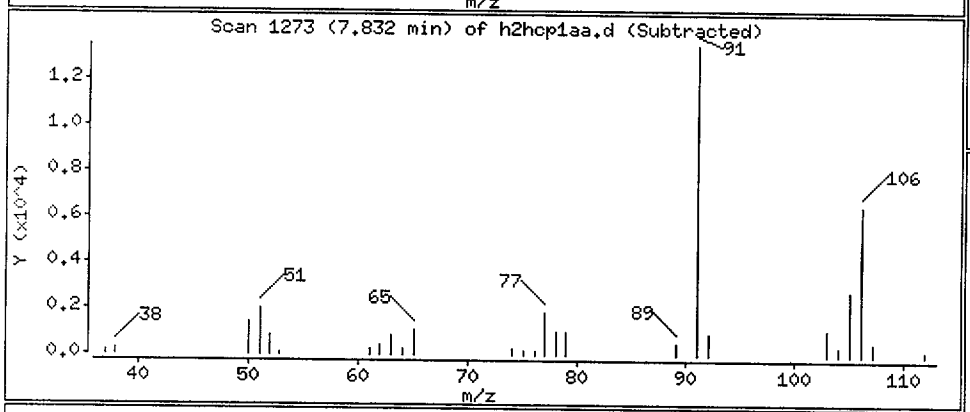
Column diameter: 0.18

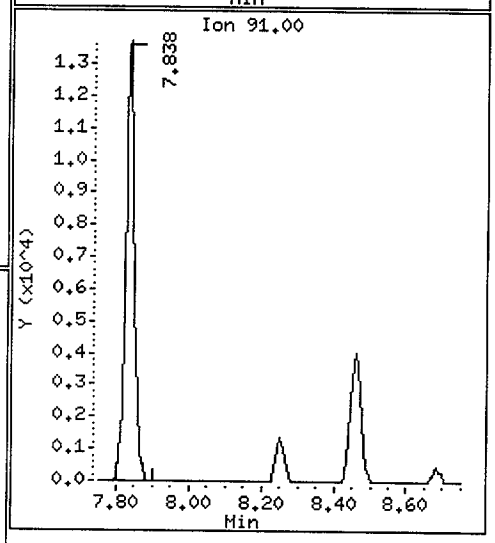
66 o-Xylene

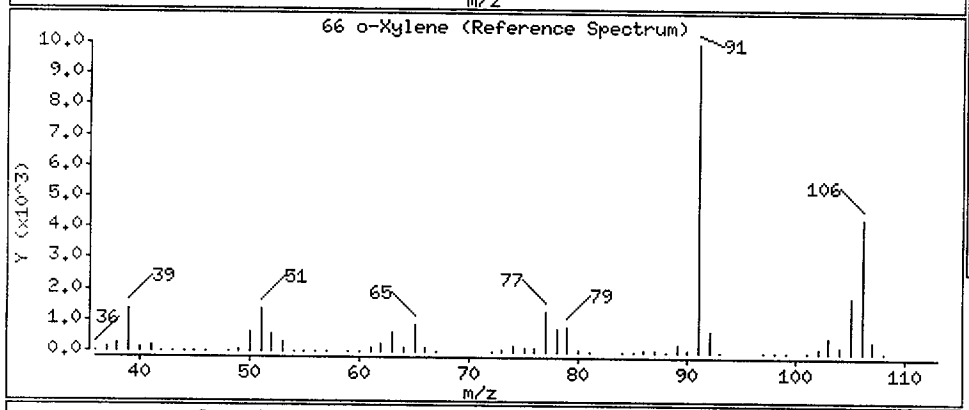
Concentration: 0.0057321 ug

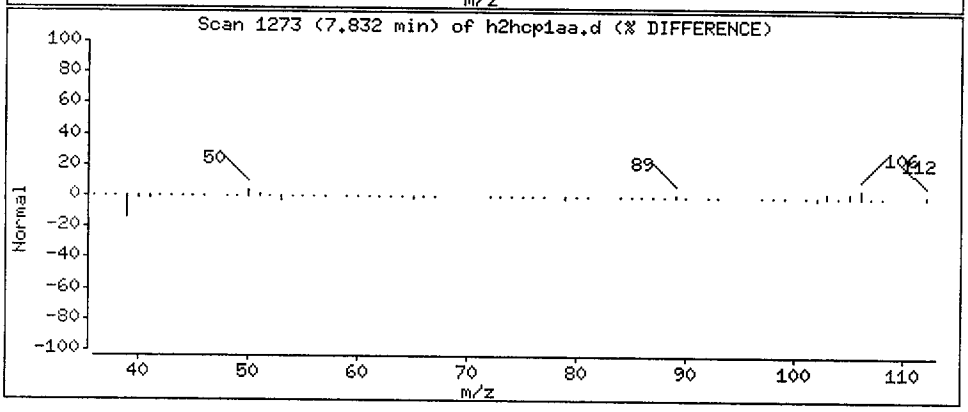












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

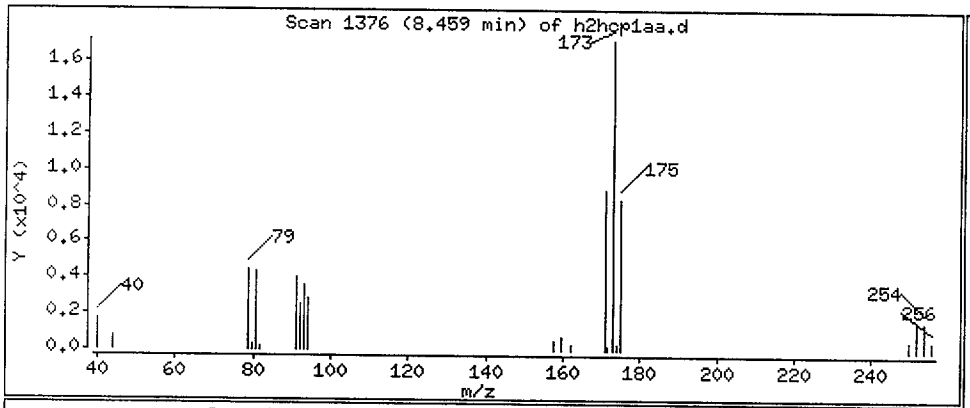
Operator: 22980

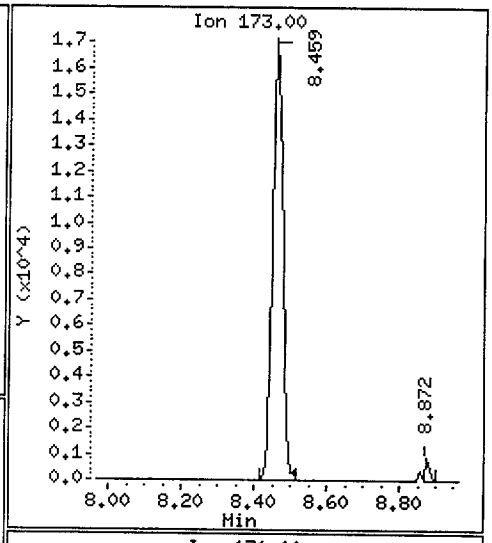
Column phase: J+W 624

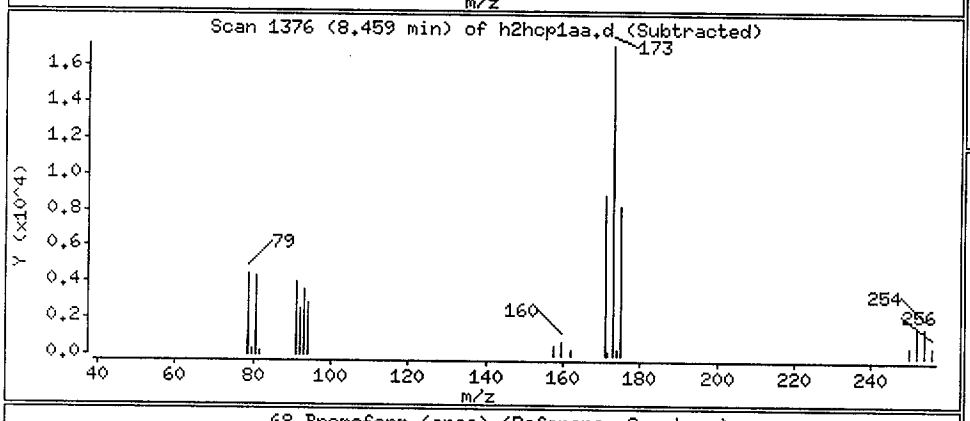
Column diameter: 0.18

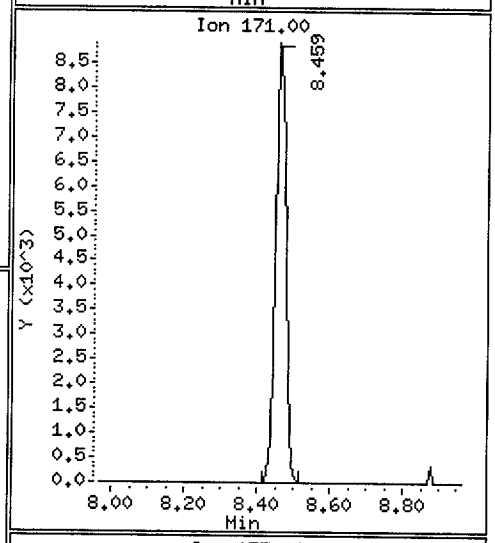
68 Bromoform (spcc)

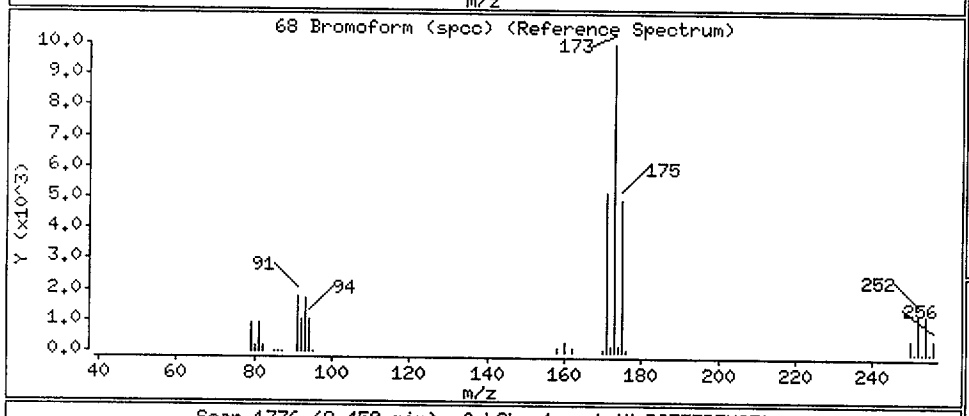
Concentration: 0.13033 ug

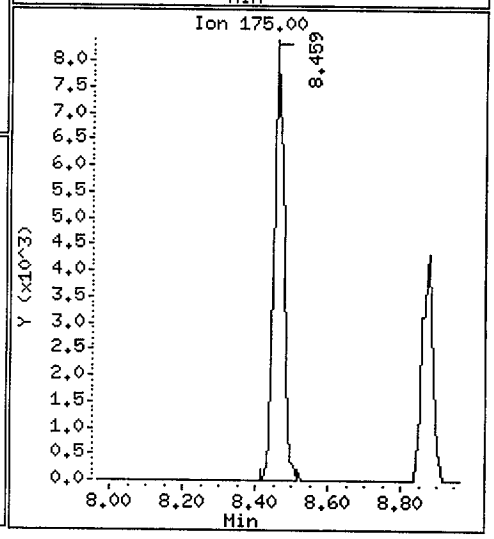


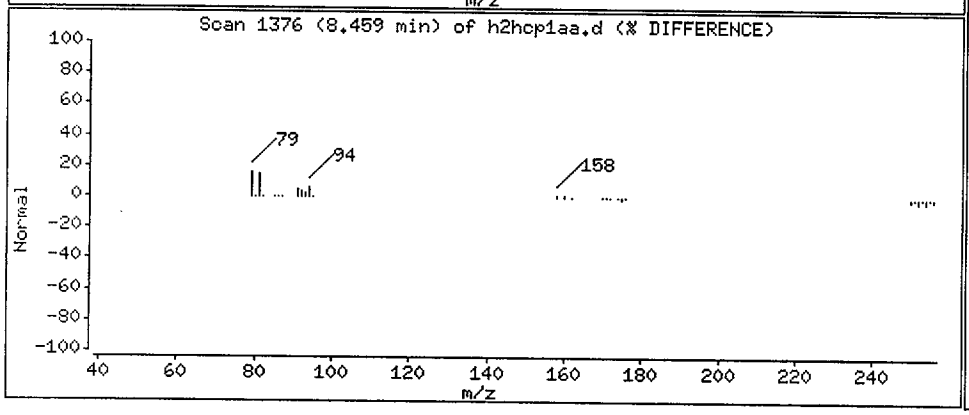












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

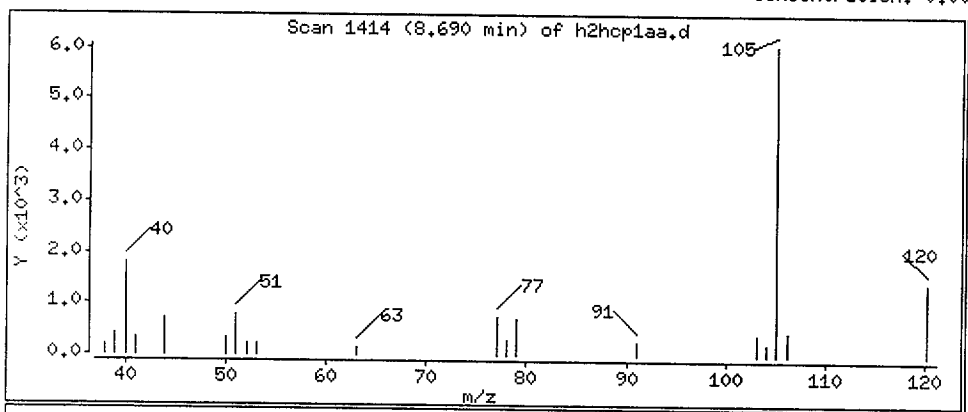
Operator: 22980

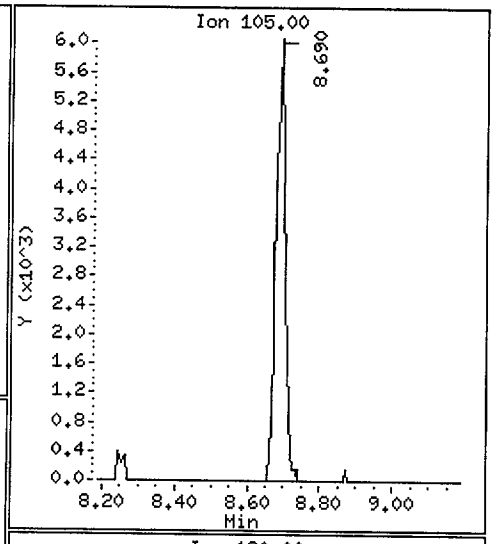
Column phase: J+W 624

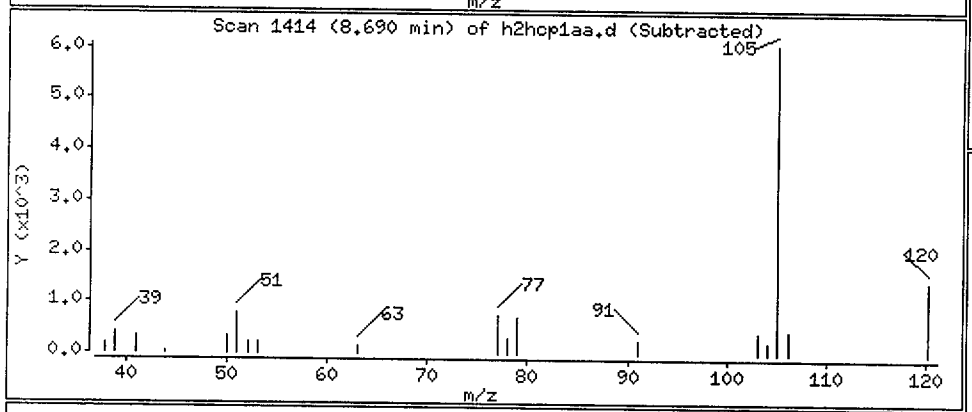
Column diameter: 0.18

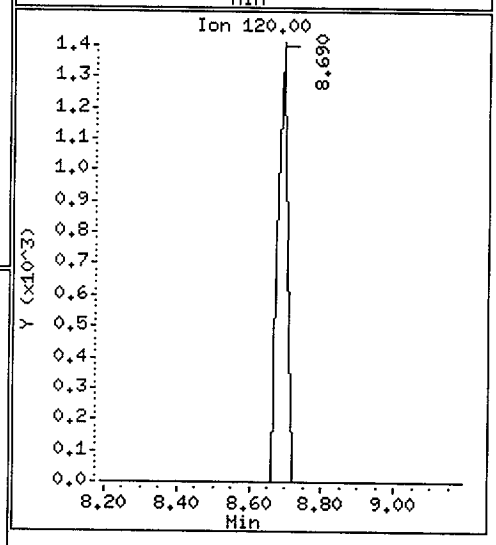
69 Isopropylbenzene

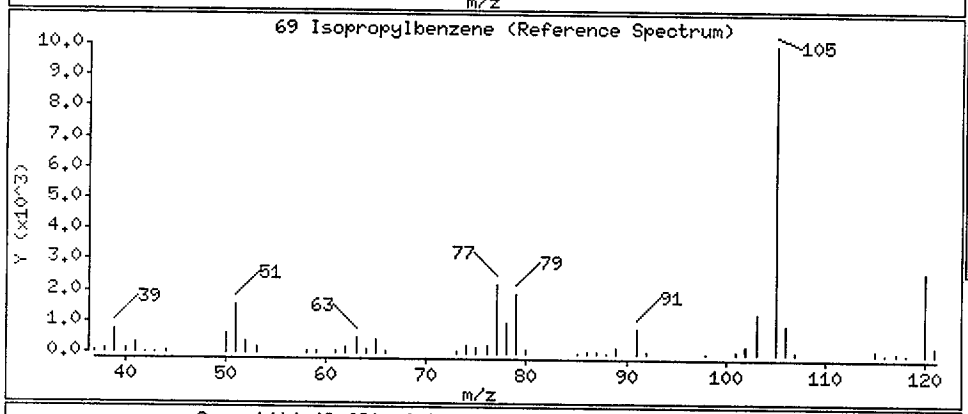
Concentration: 0.0016768 ug

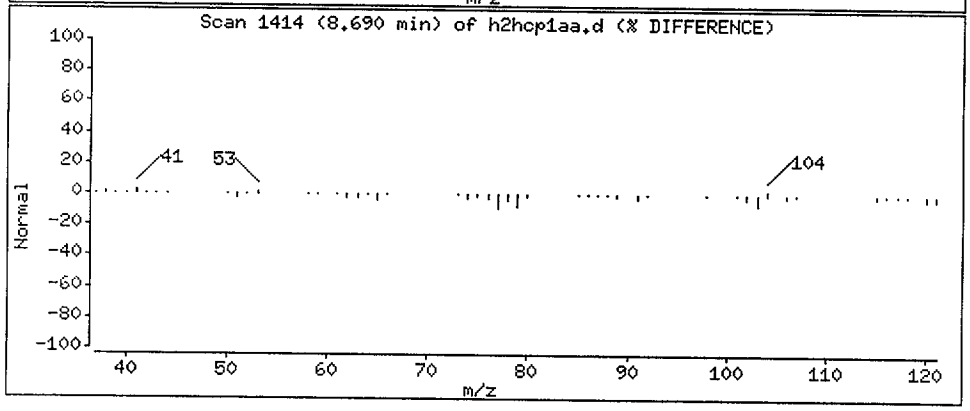












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

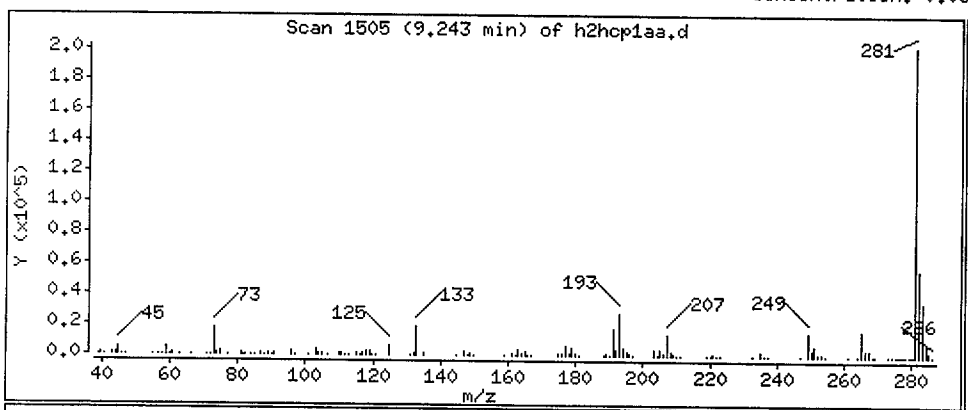
Operator: 22980

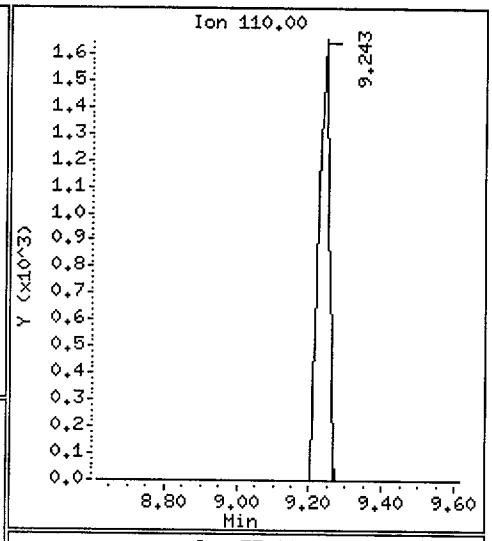
Column phase: J+W 624

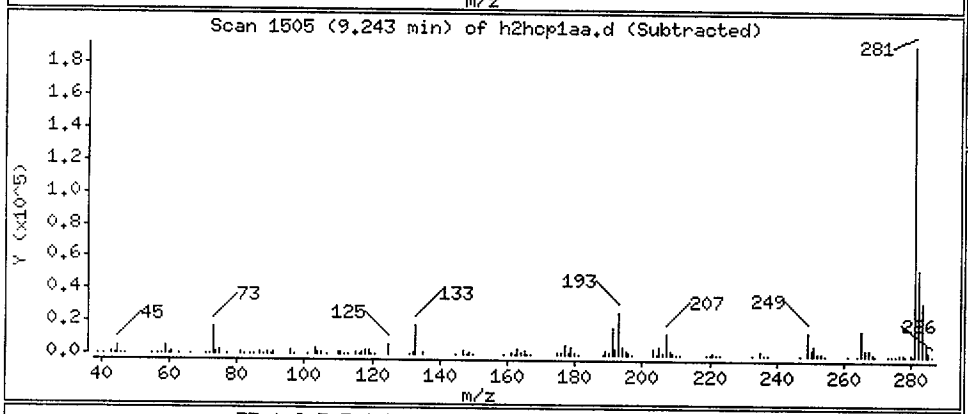
Column diameter: 0.18

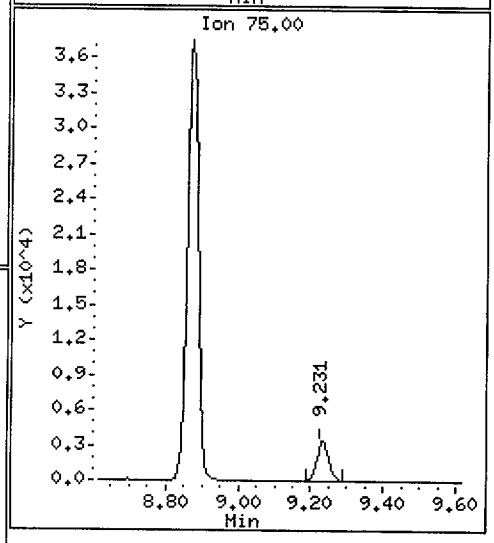
73 1,2,3-Trichloropropane

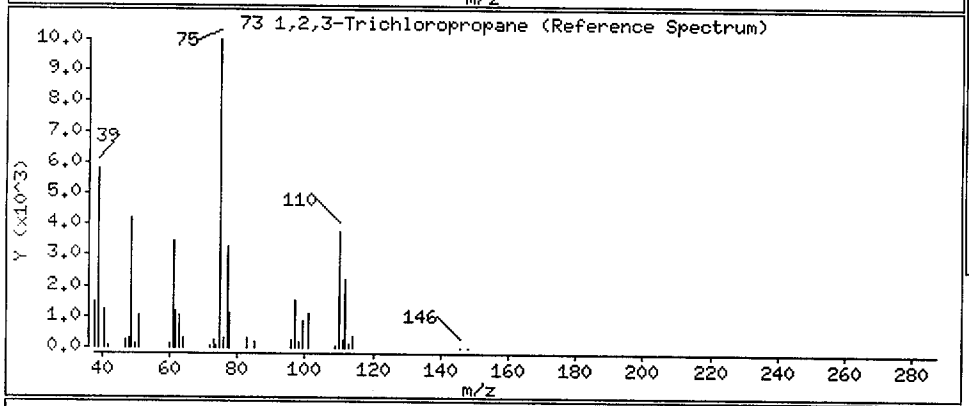
Concentration: 0.037085 ug

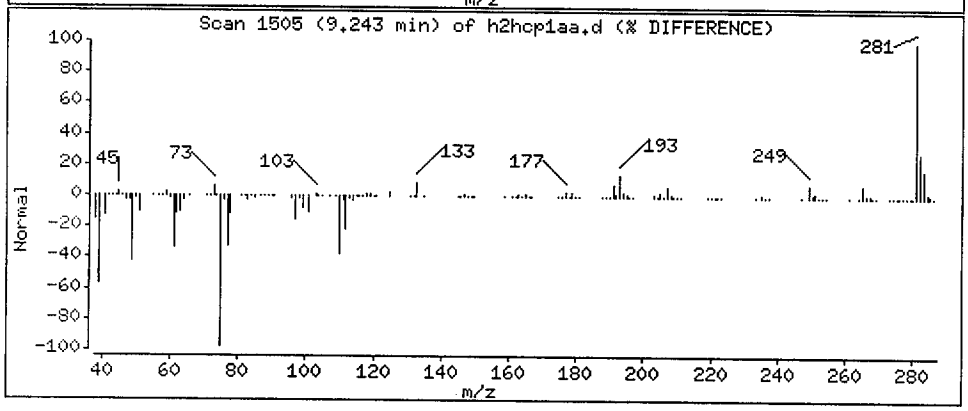












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

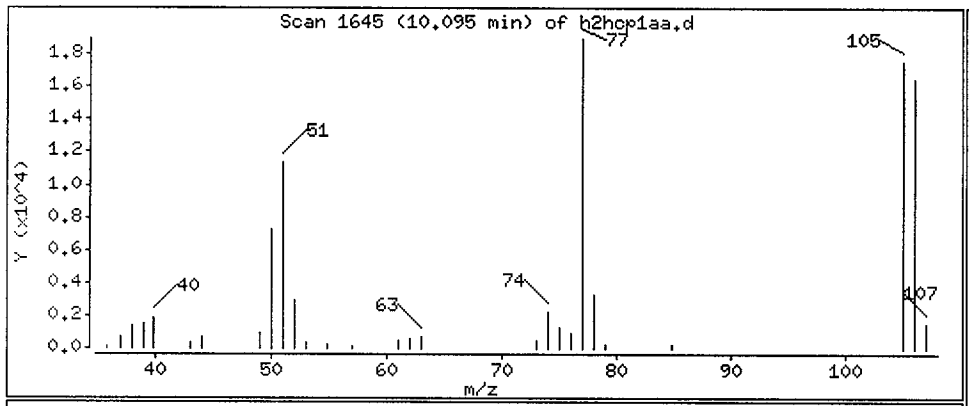
Operator: 22980

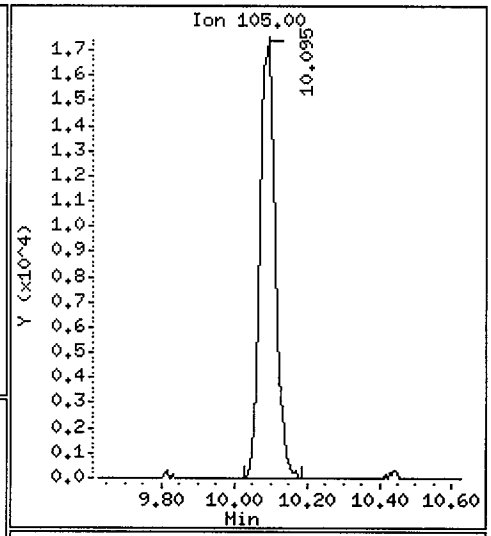
Column phase: J+W 624

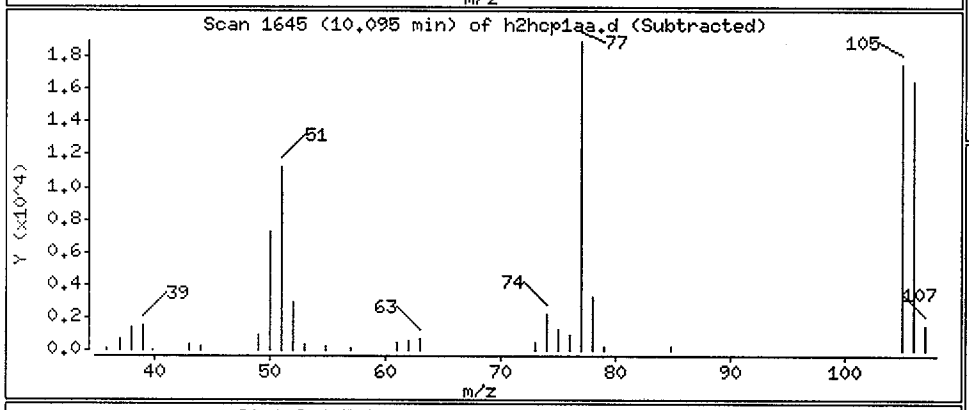
Column diameter: 0.18

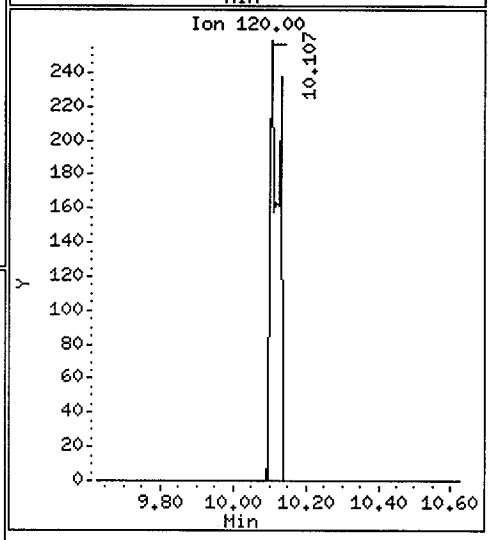
80 1,2,4-Trimethylbenzene

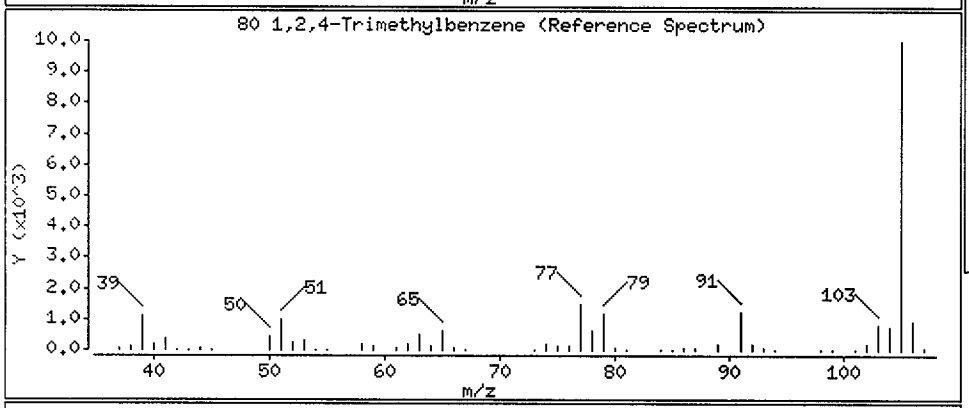
Concentration: 0.016311 ug

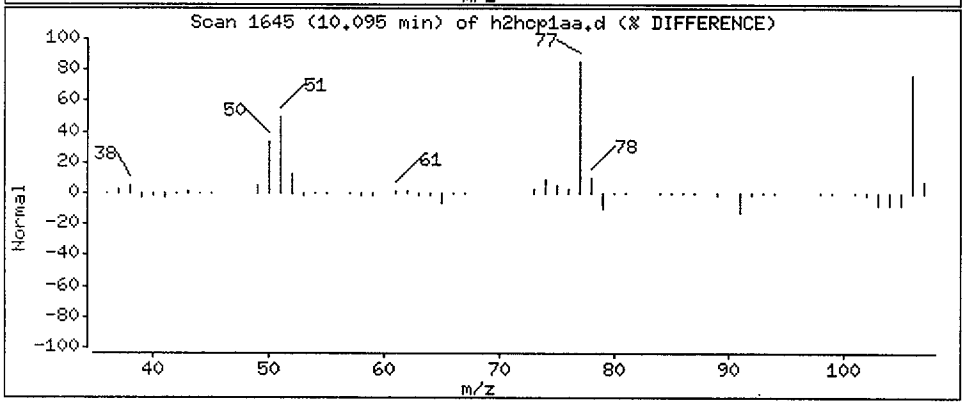












Data File: /chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

Sample Info: H2HCP1AA,1,0,,,

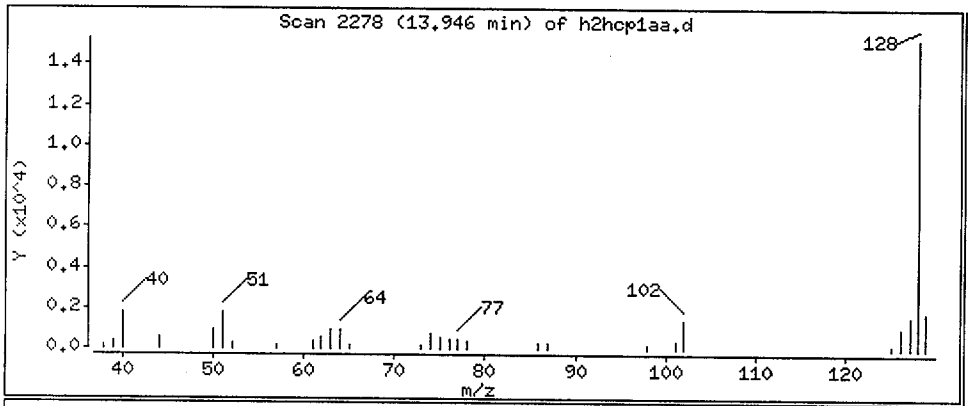
Operator: 22980

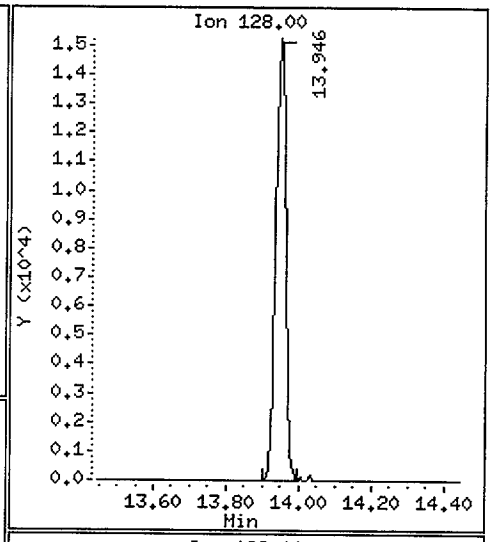
Column phase: J+W 624

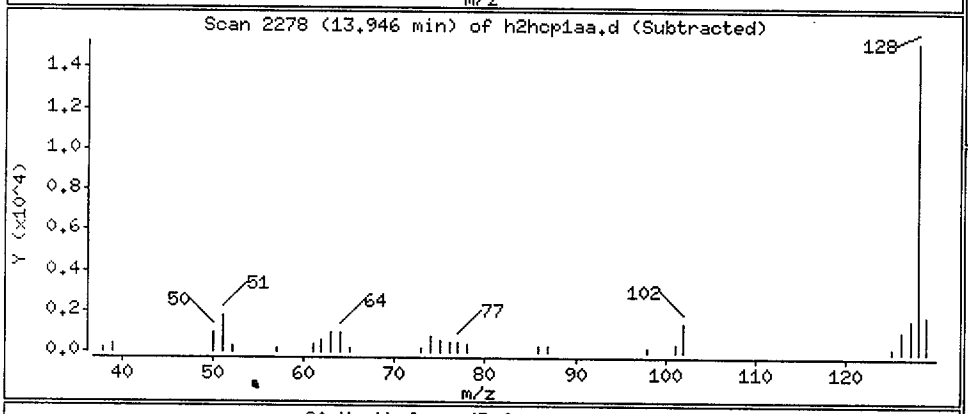
Column diameter: 0.18

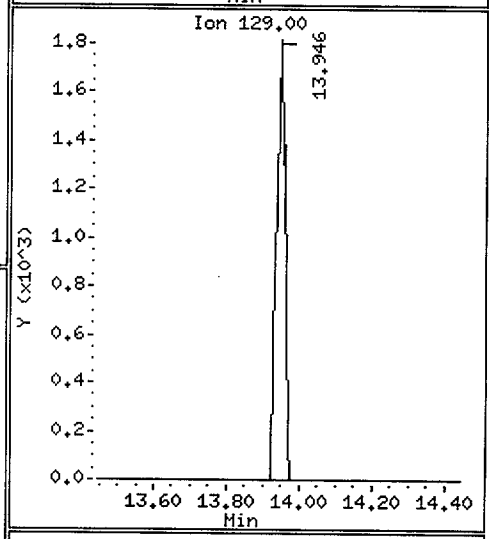
90 Napthalene

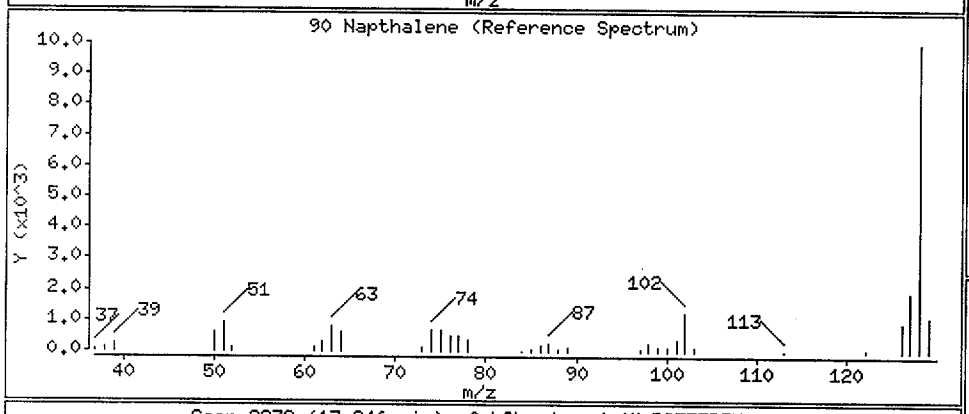
Concentration: 0.068518 ug

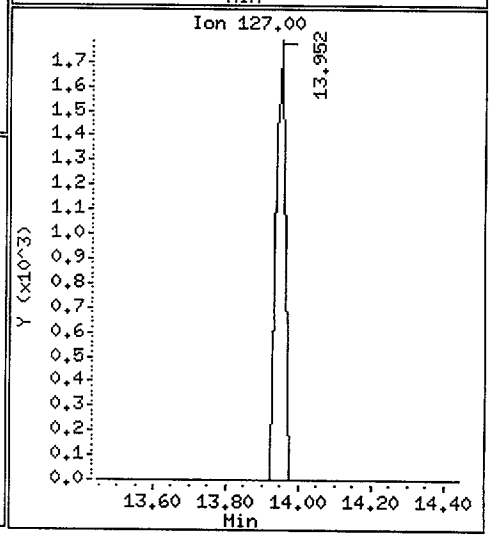


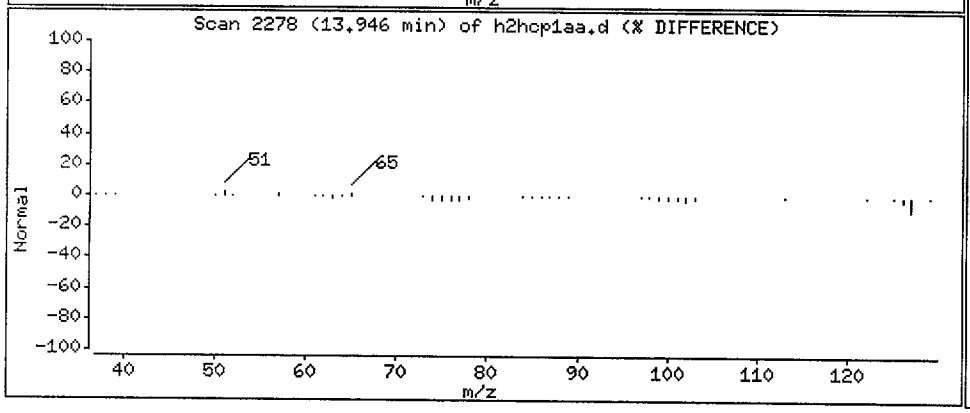












Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 18-Apr-2006 14:58

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Lab Smp Id: H2HCP1AA
Client Smp ID: G-3095-R3-VOST PAIR
Inj Date : 07-APR-2006 15:38
Operator : 22980
Inst ID: mx.i
Smp Info : H2HCP1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh
Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58
Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.851	1535481	10.000
* 2 Chlorobenzene-d5	7.583	8854515	10.000
* 3 1,4 Dichlorobenzene-d4	10.746	574389	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9			
	1.018	828457	5.39542332	0.13488	5	NIST02.1	77	1
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9			
	6.719	982933	1.11009242	0.027752	91	NIST02.1	71175	2
Benzoic acid, 5-methyl-2-trimethylsilylo					CAS #: 1000153-59-4			
	9.237	594728	10.3540980	0.25885	64	NIST02.1	115080	3

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d
Report Date: 18-Apr-2006 14:58

RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzaldehyde					CAS #: 100-52-7		
10.089	95038	1.65459297	0.041365	97	NIST02.l	4942	3
Benzoic acid, 4-[(trimethylsilyl)oxy]-,					CAS #: 2078-13-9		
12.443	150627	2.62238657	0.065560	56	NIST02.l	107114	3

SP
4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

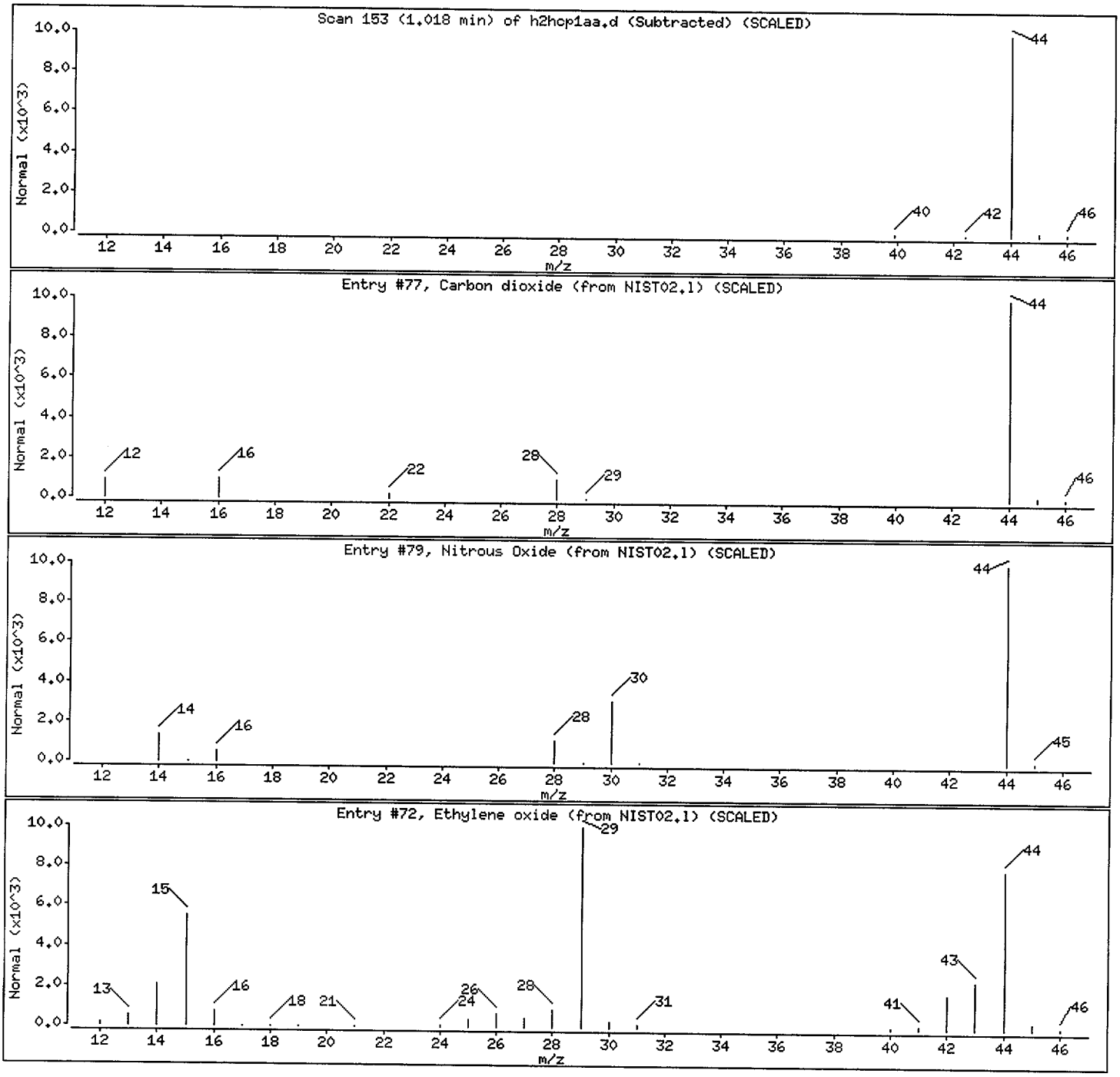
Sample Info: H2HCP1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.1	77	5	CO2	44
Nitrous Oxide	10024-97-2	NIST02.1	79	3	N2O	44
Ethylene oxide	75-21-8	NIST02.1	72	2	C2H4O	44



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

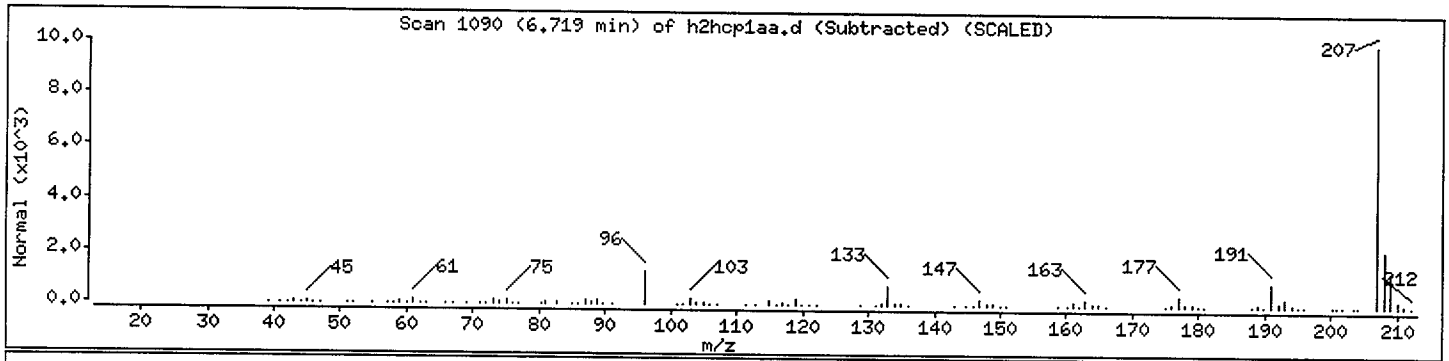
Sample Info: H2HCP1AA,1,0,,,

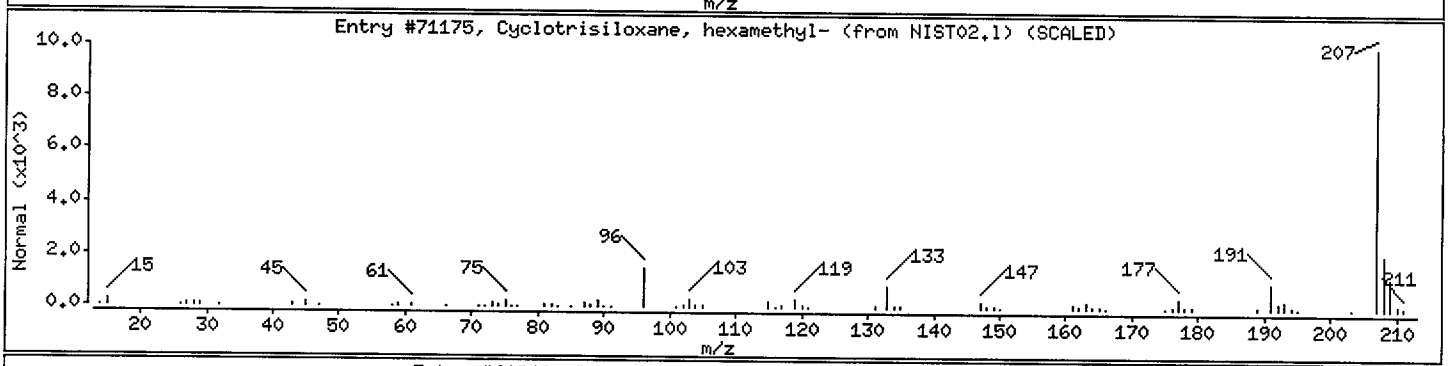
Operator: 22980

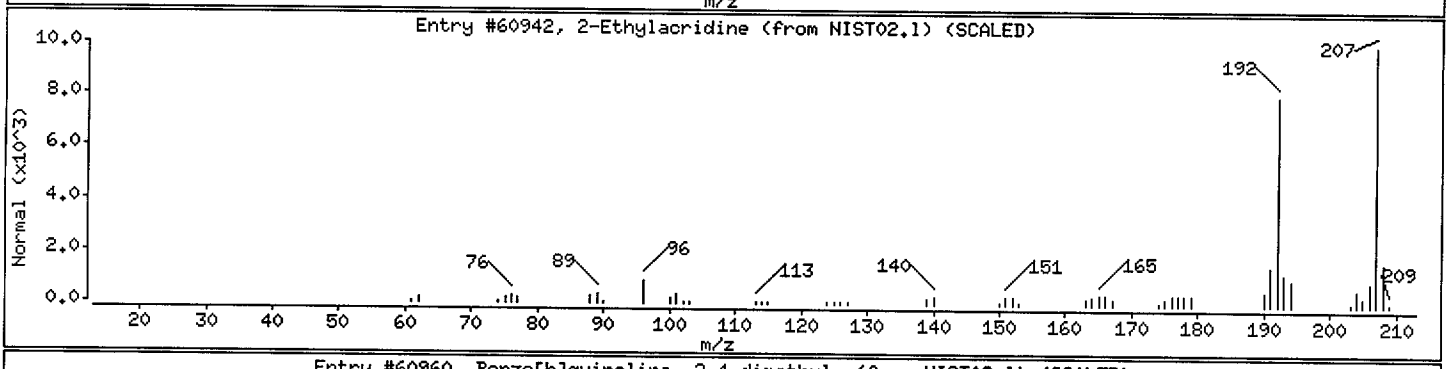
Column phase: J+W 624

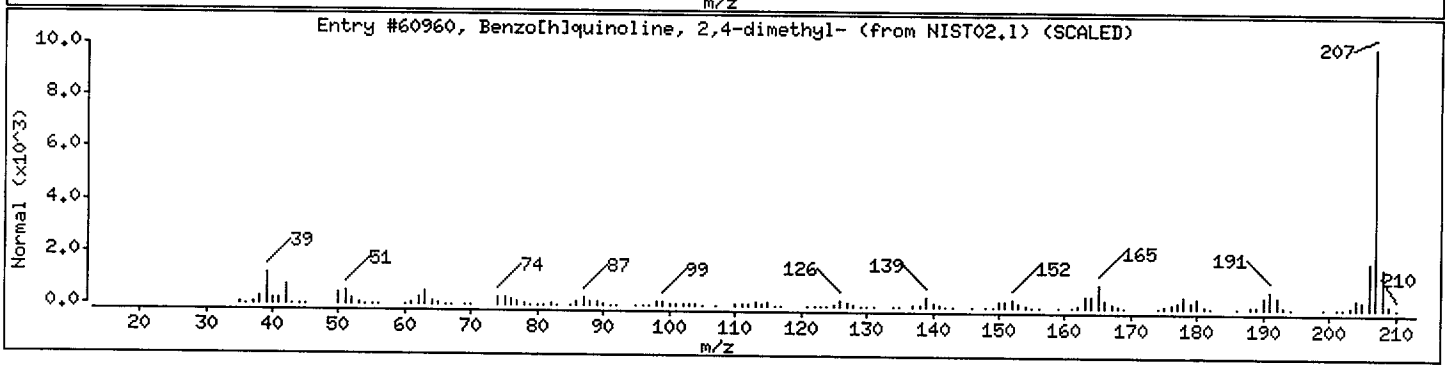
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.1	71175	91	C6H18O3Si3	222
2-Ethylacridine	55751-83-2	NIST02.1	60942	45	C15H13N	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.1	60960	38	C15H13N	207









Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

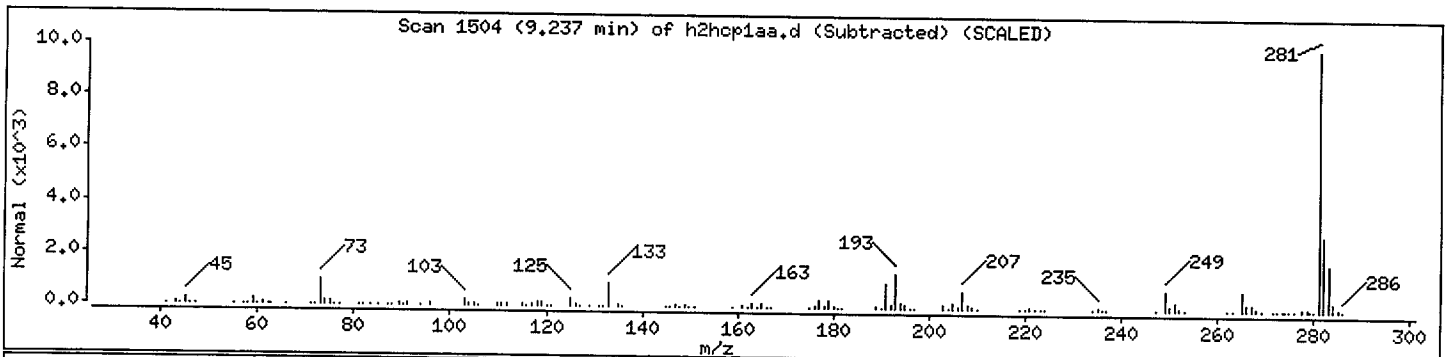
Sample Info: H2HCP1AA,1,0,,,

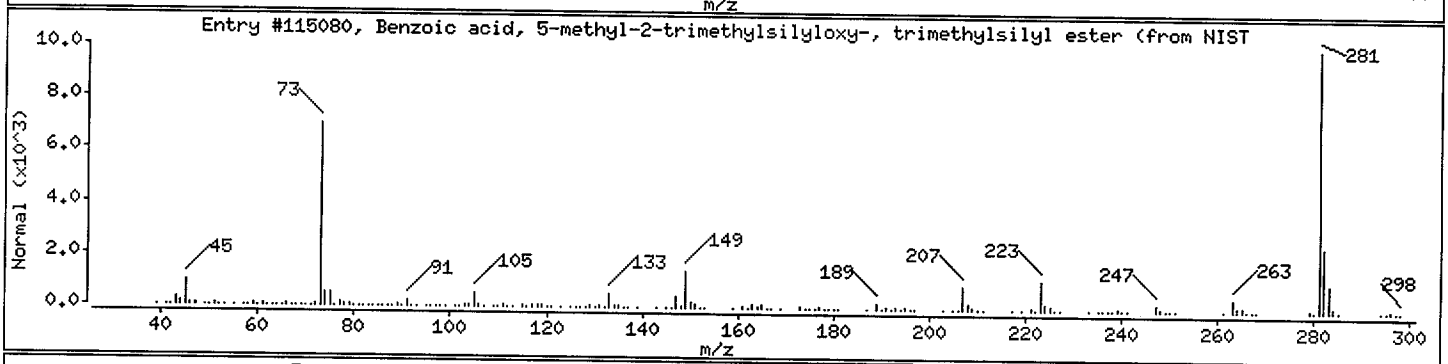
Operator: 22980

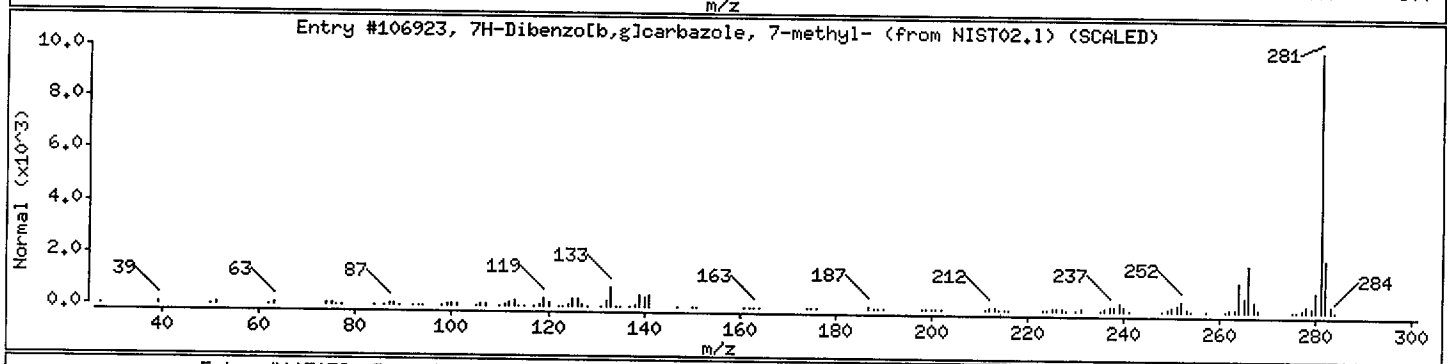
Column phase: J+W 624

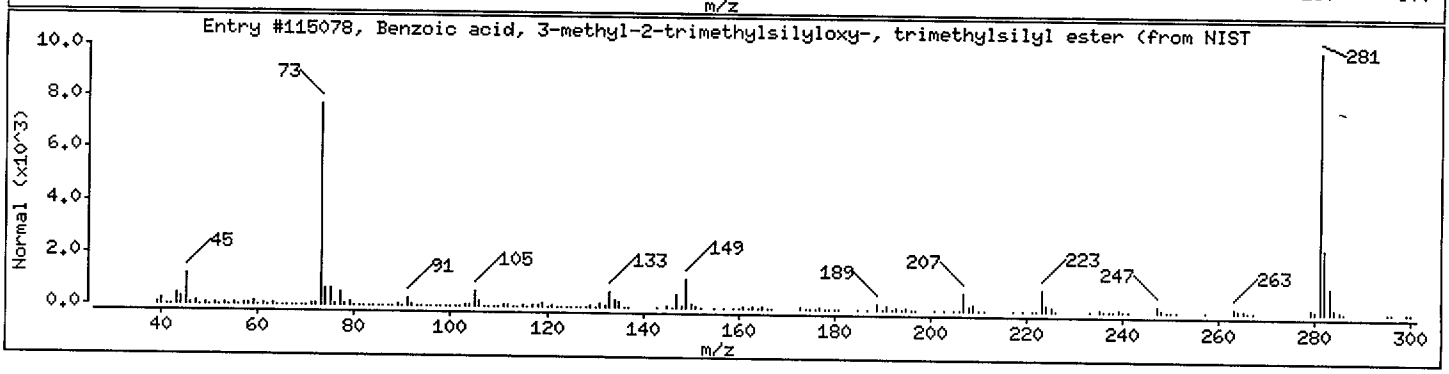
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 5-methyl-2-trimethylsilylo	1000153-59-4	NIST02.l	115080	64	C14H2403Si2	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.l	106923	53	C21H15N	281
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST02.l	115078	53	C14H2403Si2	296









Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

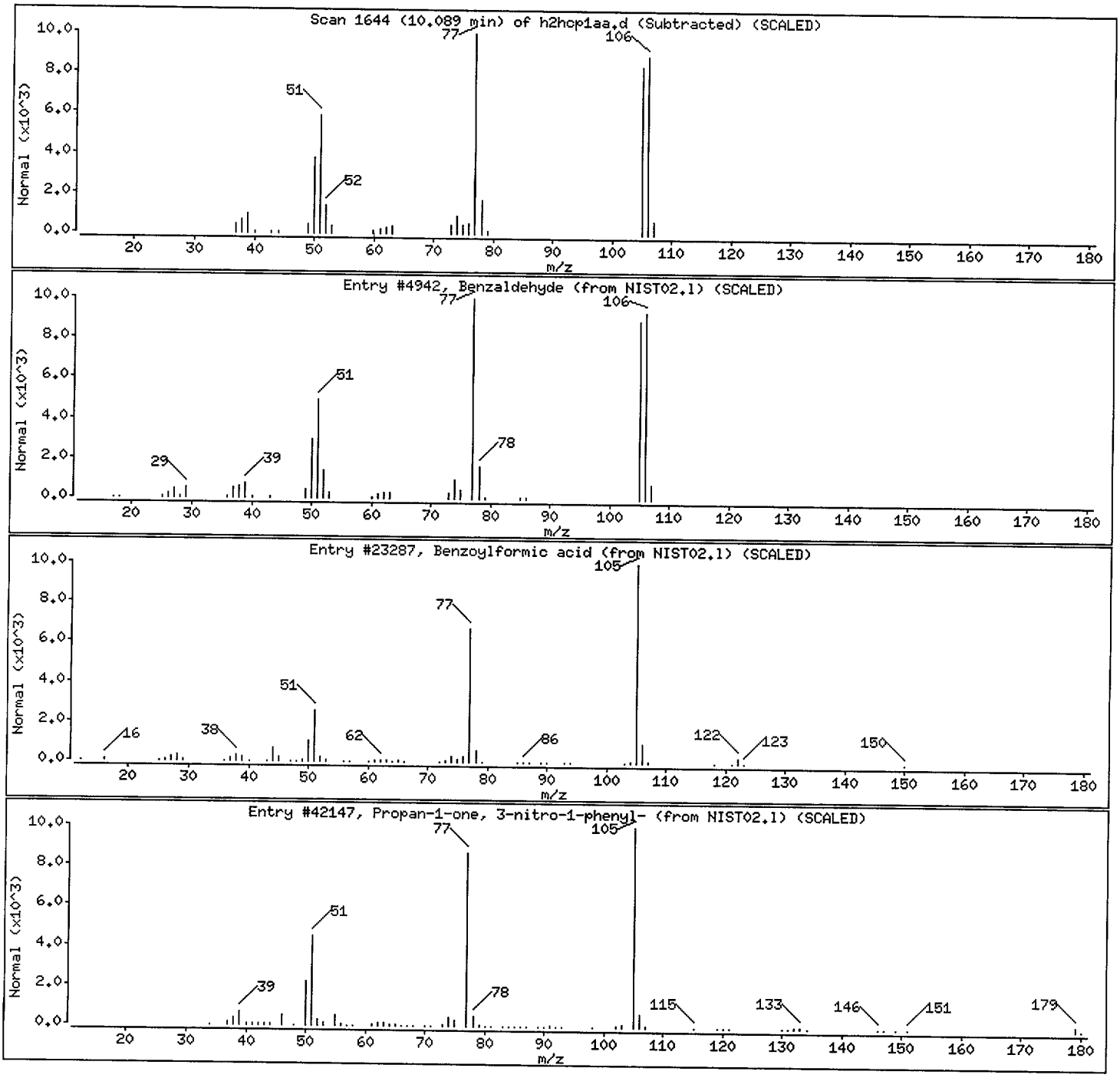
Sample Info: H2HCP1AA,1,0,,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzaldehyde	100-52-7	NIST02.1	4942	97	C7H6O	106
Benzoylformic acid	611-73-4	NIST02.1	23287	53	C8H6O3	150
Propan-1-one, 3-nitro-1-phenyl-	62847-52-3	NIST02.1	42147	50	C9H9NO3	179



Data File: /var/chem/gcms/mx.i/X040706.b/h2hcp1aa.d

Date : 07-APR-2006 15:38

Client ID: G-3095-R3-VOST PAIR

Instrument: mx.i

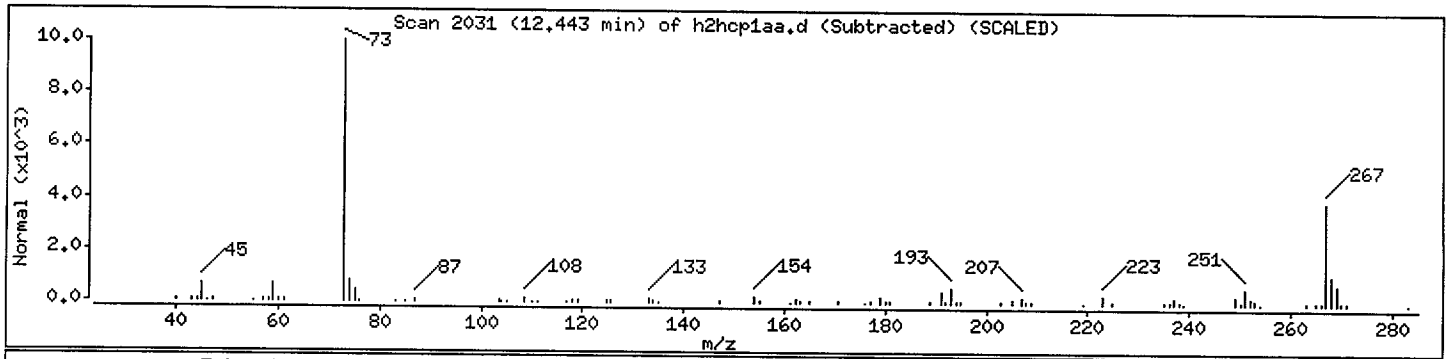
Sample Info: H2HCP1AA,1,0,,,

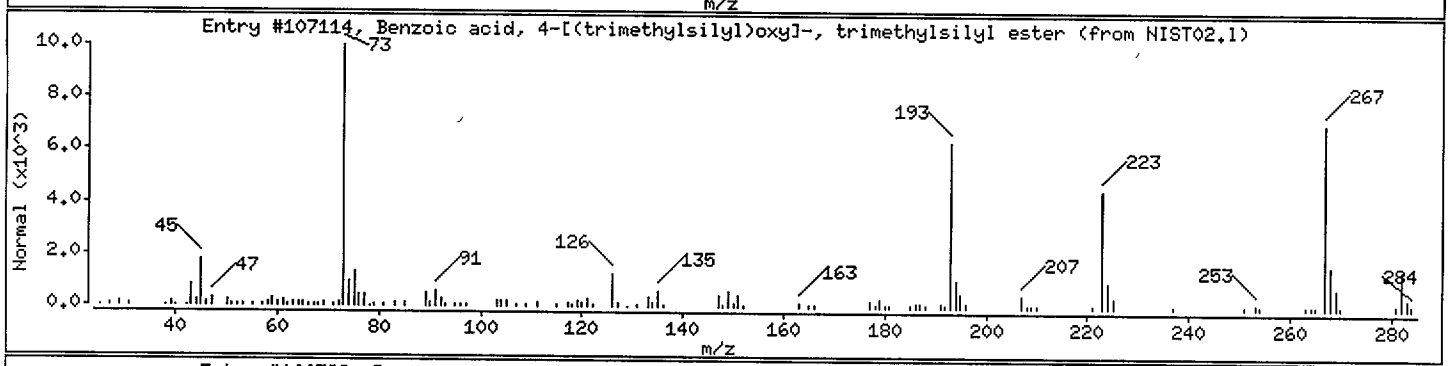
Operator: 22980

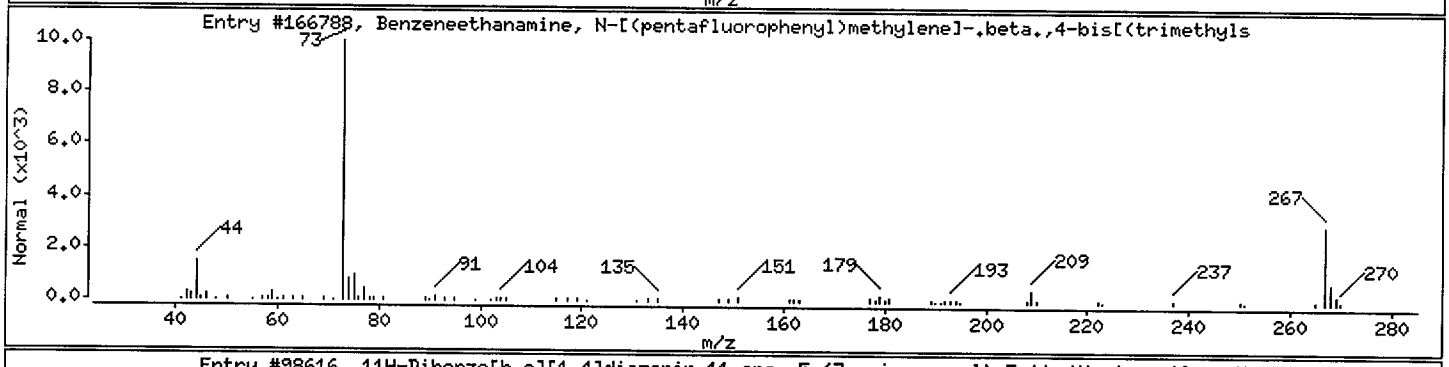
Column phase: J+W 624

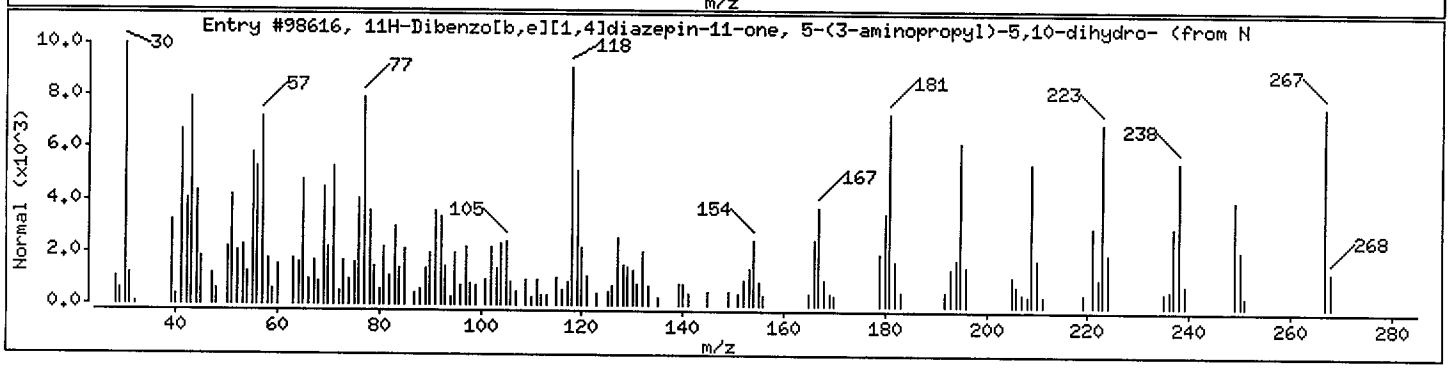
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzoic acid, 4-[(trimethylsilyl)oxy]-,	2078-13-9	NIST02.1	107114	56	C13H22O3Si2	282
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.1	166788	45	C21H26F5NO2Si2	475
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.1	98616	43	C16H17N3O	267









STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.088 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0027 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0077 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.051**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0099 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.035**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0024 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0025 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0067 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(50 - 134)
1,2-Dichloroethane-d4	107	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	92	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-030 **Work Order #:** H2HCQ1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Lab Smp Id: H2HCQ1AA Client Smp ID: G-3096-R3-VOST PAIR
Inj Date : 07-APR-2006 14:46
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCQ1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 13:06 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	659967	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	171312	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.497	11.492	(1.000)	229524	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	116619	11.0277	0.27569
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	98271	10.7462	0.26865
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	689333	9.15796	0.22895
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	213294	9.21453	0.23036
10 Dichlorodifluoromethane	85	1.015	1.016	(0.179)	6374	0.39572	0.0098929
11 Chloromethane (spcc)	50	1.118	1.126	(0.197)	96595	2.03902	0.050976
15 Bromomethane	94	1.404	1.418	(0.247)	1672	1.07177	0.026794
16 Chloroethane	64	1.593	1.485	(0.281)	4222	0.34304	0.~~008576~~1
22 Acetone	43	2.128	2.123	(0.375)	1138	3.53435	0.088359
23 *Iodomethane	142	2.189	2.184	(0.386)	646	0.55980	0.013995
24 Carbon Disulfide	76	2.238	2.239	(0.394)	5542	0.10946	0.0027365
27 Methylene Chloride	84	2.505	2.513	(0.441)	15339	1.38973	0.034743
39 *THF	42	4.543	4.532	(0.801)	846	0.54055	0.013514

JW 4-14-06

30

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
40 Chloroform (ccc)	83	4.616	4.618	(0.813)	1508	0.06328	0.0015820
44 Benzene	78	5.310	5.305	(0.936)	4423	0.06797	0.0016993
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	10412	0.75554	~~0.018888~~
46 Trichloroethene	130	6.113	6.114	(1.077)	4887	0.26696	0.0066739
53 4-Methyl-2-pentanone	43	7.469	7.386	(1.316)	5651	0.98056	~~0.024514~~
54 Toluene (ccc)	91	7.530	7.532	(0.843)	9891	0.10146	0.0025365
55 trans-1,3-Dichloropropene	75	8.133	7.793	(0.910)	1421	0.71651	~~0.017913~~
58 Tetrachloroethene	164	8.114	8.097	(0.908)	1917	0.09483	0.0023708
61 Chlorodibromomethane	129	8.351	8.353	(0.935)	445	0.82051	0.020513
63 Chlorobenzene (spcc)	112	8.966	8.961	(1.003)	16676	0.30646	0.0076614
65 Ethylbenzene (ccc)	106	9.228	9.101	(1.033)	1630	0.04650	~~0.0011625~~
67 o-Xylene	106	9.228	9.612	(1.033)	1630	0.04355	~~0.0010888~~
68 Styrene	104	9.635	9.630	(1.078)	3379	0.06430	0.0016075
83 1,3-Dichlorobenzene	146	11.527	11.395	(1.003)	2026	0.05044	~~0.0012609~~
85 1,4-Dichlorobenzene	146	11.527	11.528	(1.003)	2026	0.05422	0.0013556

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcq1aa.d
Lab Smp Id: H2HCQ1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3096-R3-VOST PAIR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	659967	-30.72
2 Chlorobenzene-d5	164101	82050	328202	171312	4.39
3 1,4 Dichlorobenze	204390	102195	408780	229524	12.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.02
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.04

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 07-Apr-2006 15:04

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCQ1AA
Client Smp ID: G-3096-R3-VOST PAIR
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.27569	110.28	50-150
$ 5 1,2-Dichloroethane	0.25000	0.26865	107.46	50-150
$ 6 Toluene-d8	0.25000	0.22895	91.58	50-150
$ 7 4-Bromofluorobenze	0.25000	0.23036	92.15	50-150

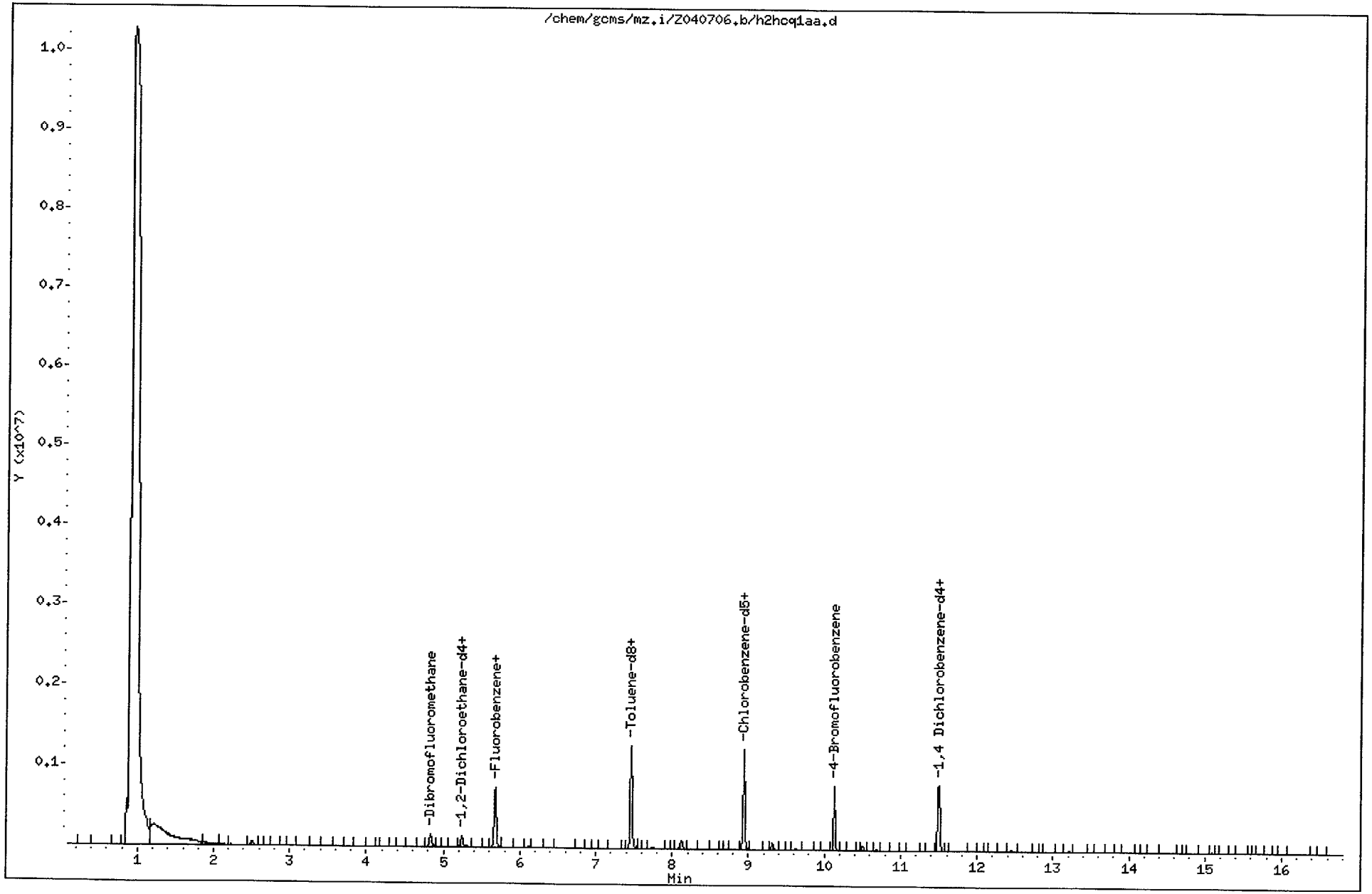
1151

Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Date : 07-APR-2006 14:46
Client ID: G-3096-R3-VOST PAIR
Sample Info: H2HCQ1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

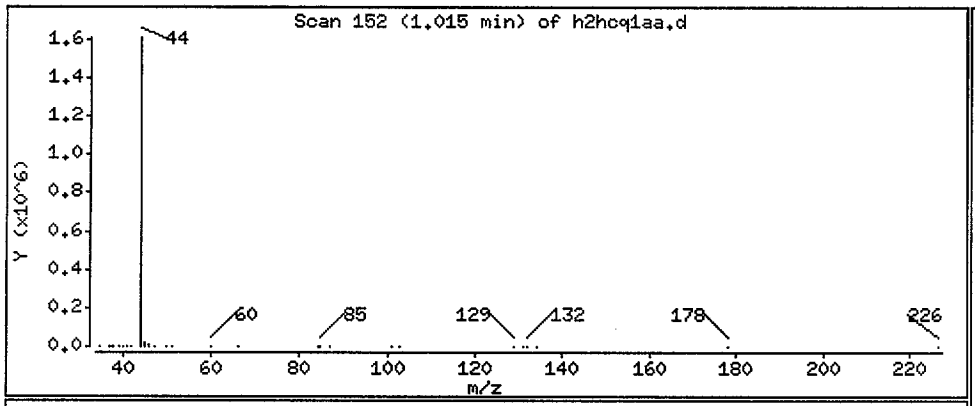
Operator: 22980

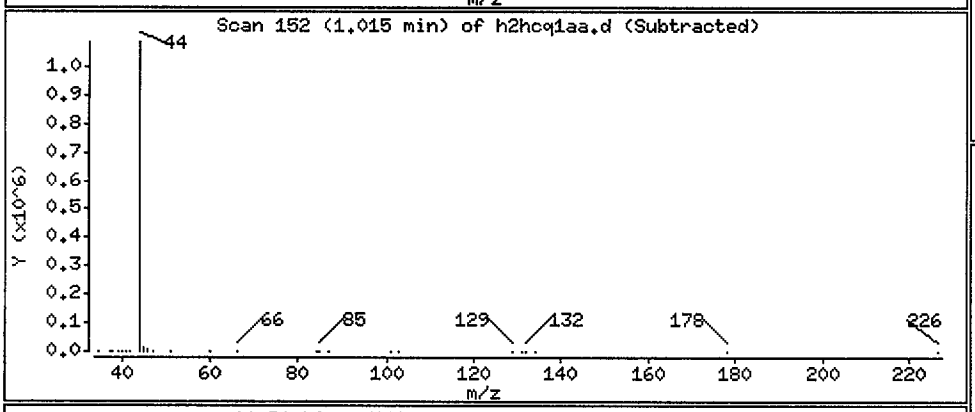
Column phase: J+W 624

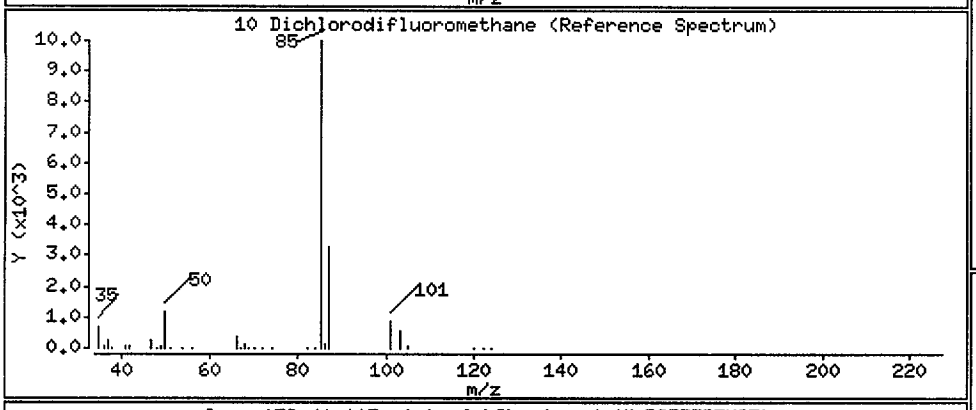
Column diameter: 0.18

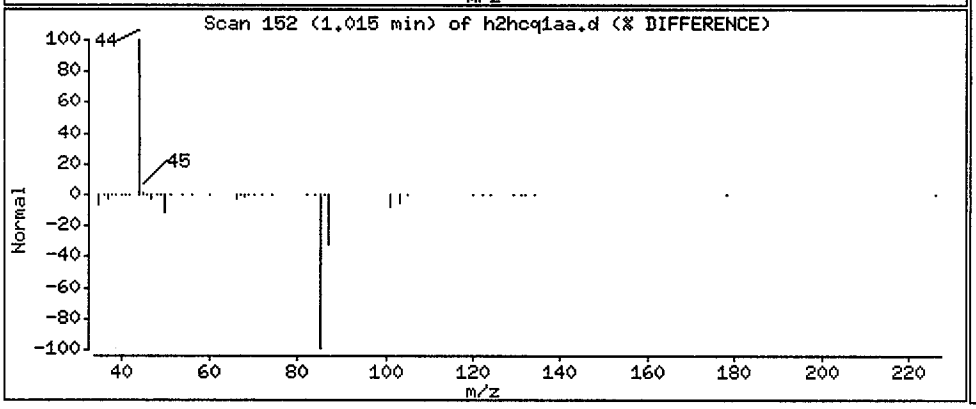
10 Dichlorodifluoromethane

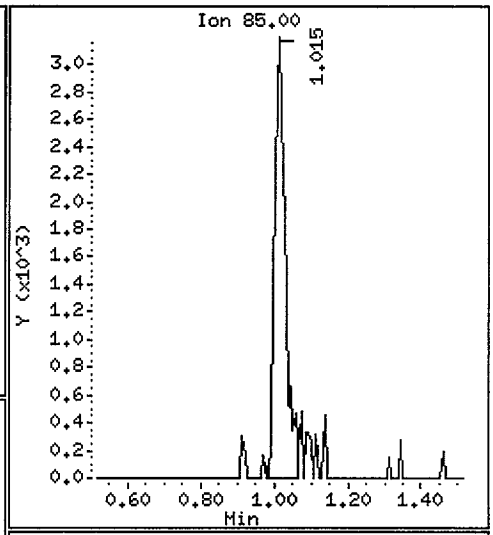
Concentration: 0.0098929 ug

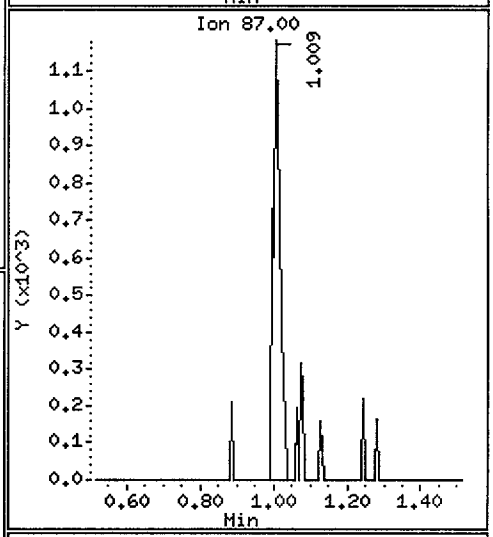


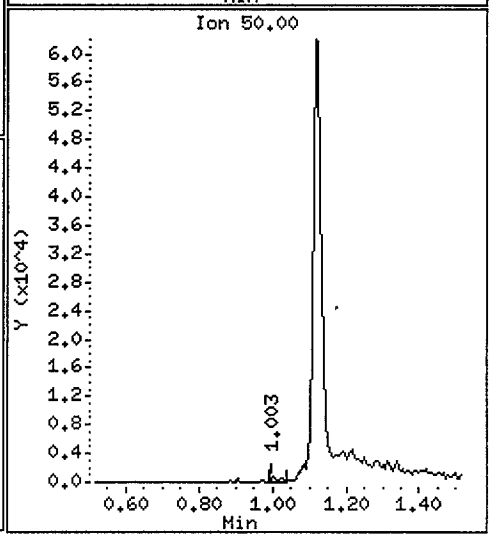












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

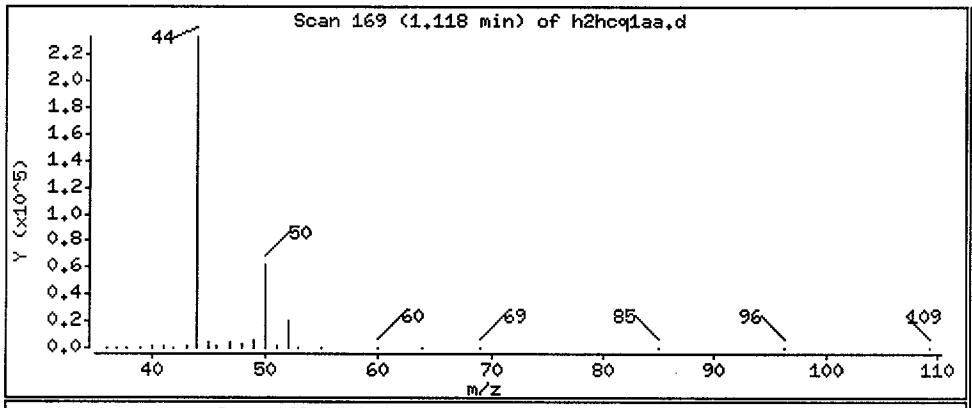
Operator: 22980

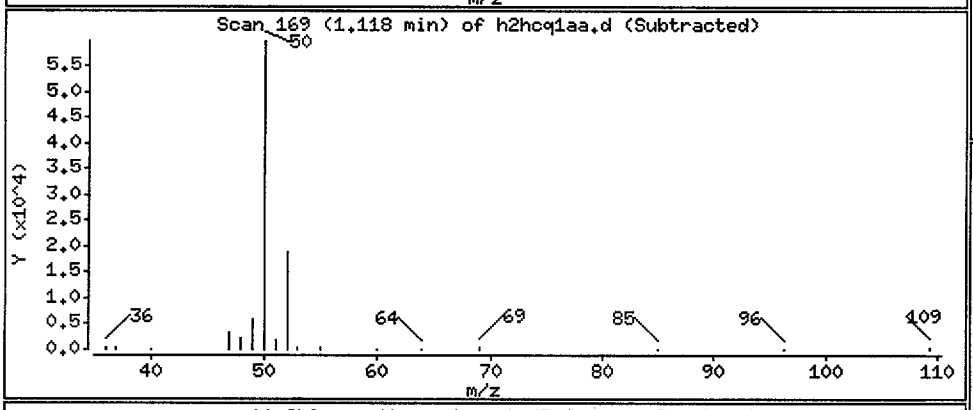
Column phase: J+W 624

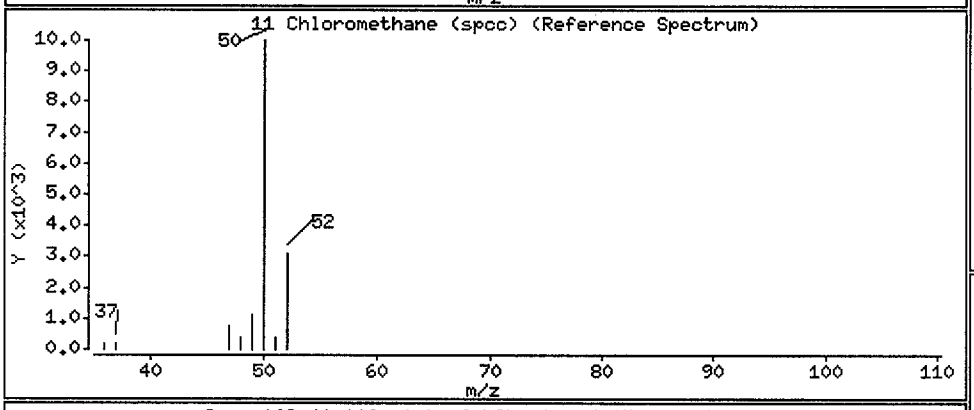
Column diameter: 0.18

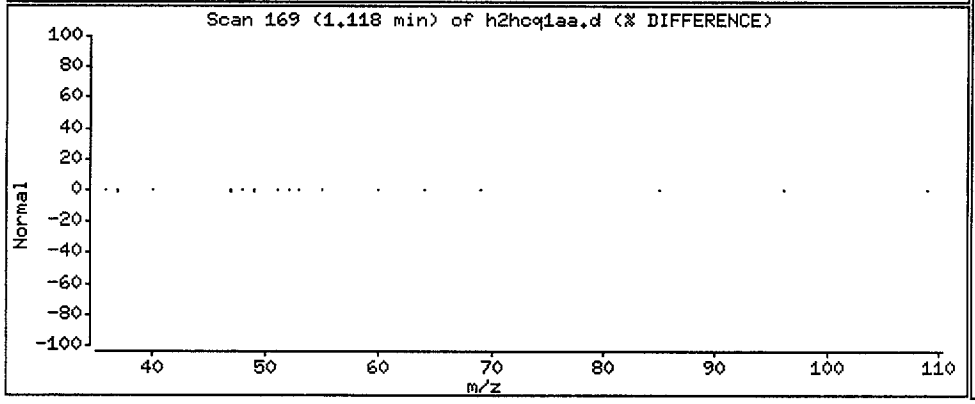
11 Chloromethane (spcc)

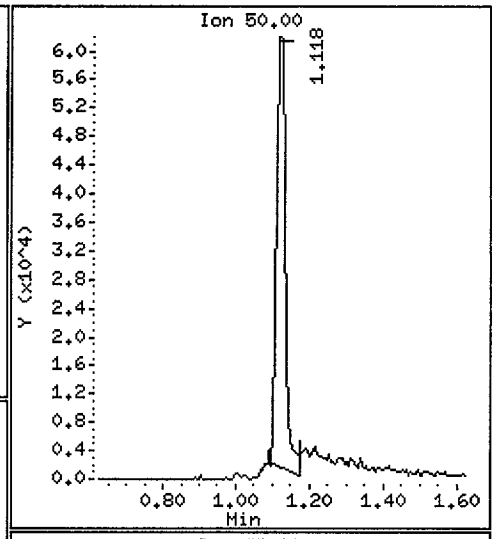
Concentration: 0.050976 ug

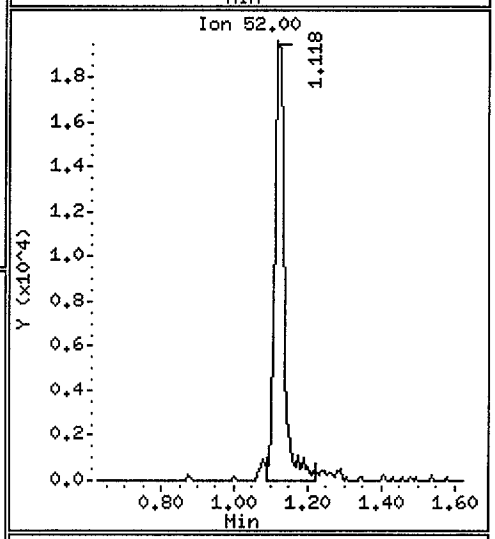


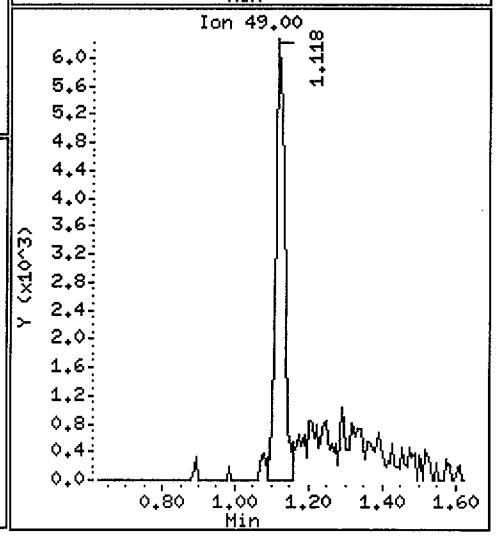












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

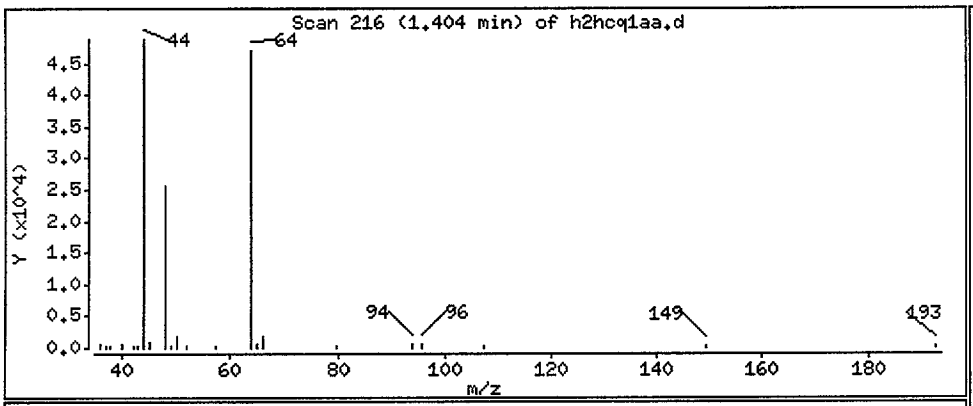
Operator: 22980

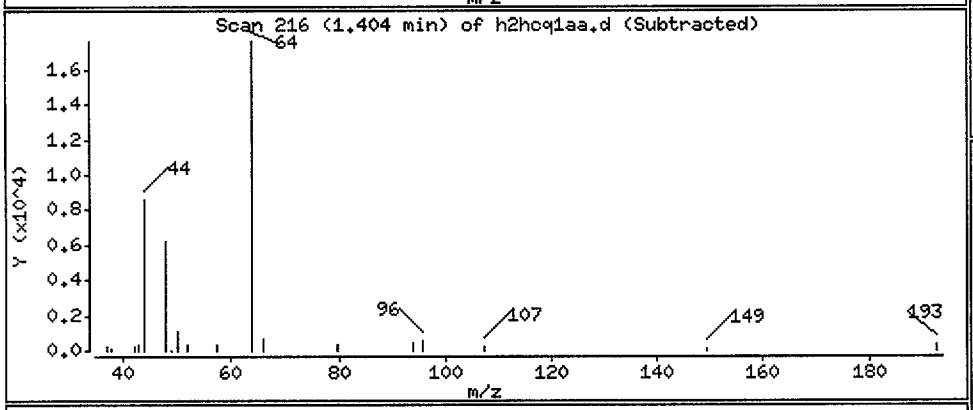
Column phase: J+W 624

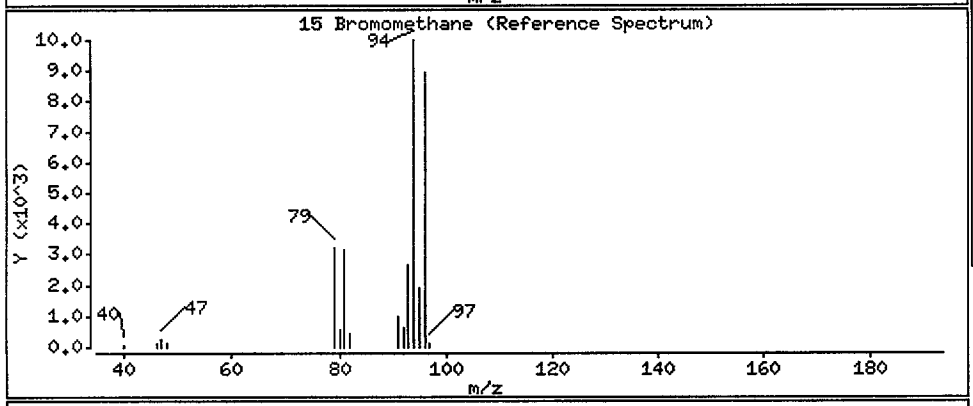
Column diameter: 0.18

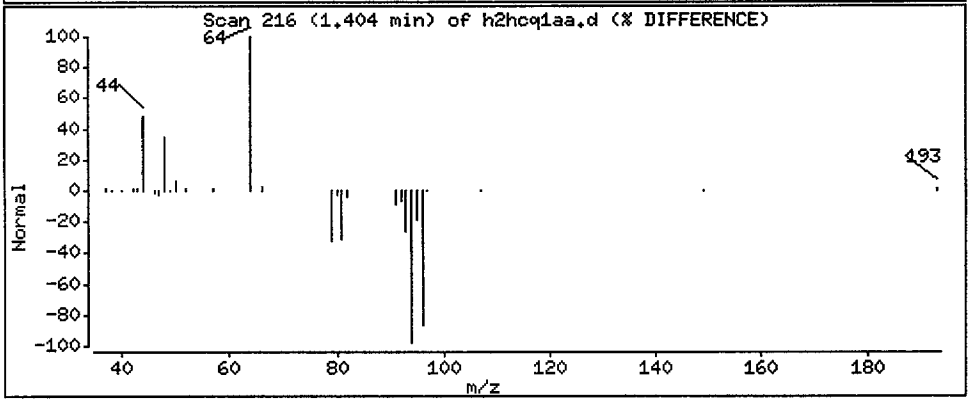
15 Bromomethane

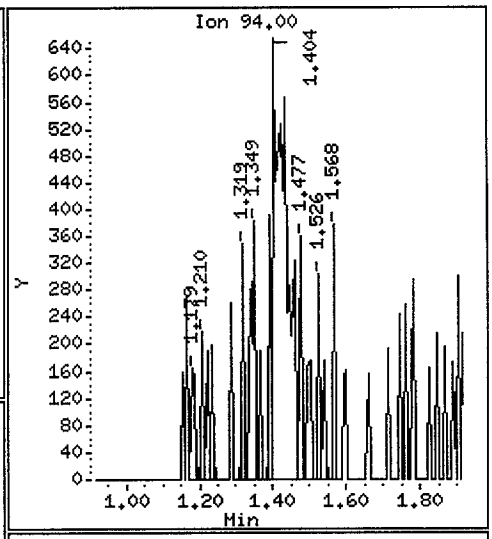
Concentration: 0.026794 ug

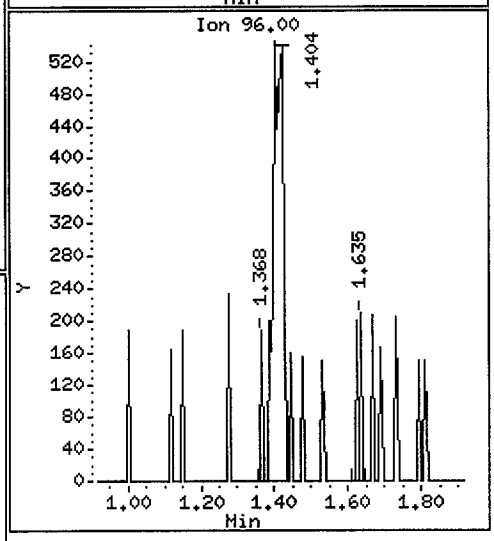












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

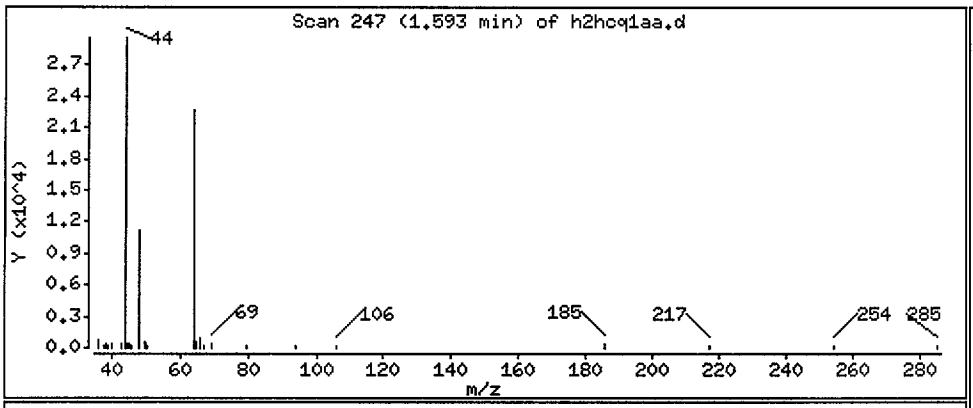
Operator: 22980

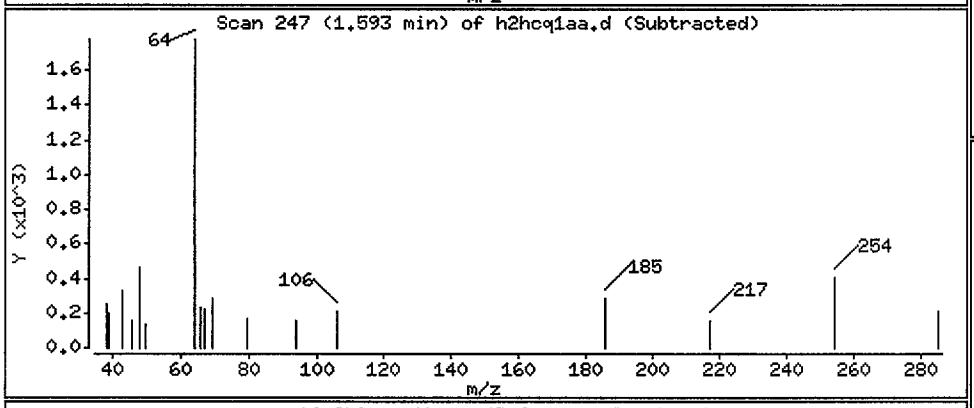
Column phase: J+W 624

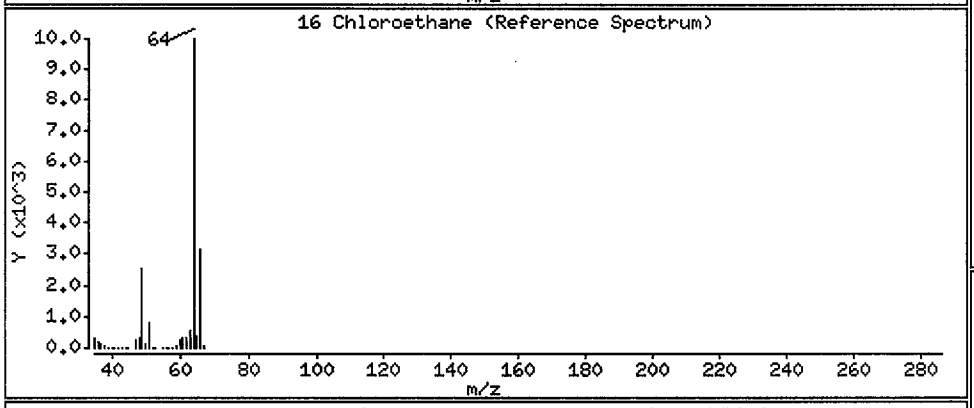
Column diameter: 0.18

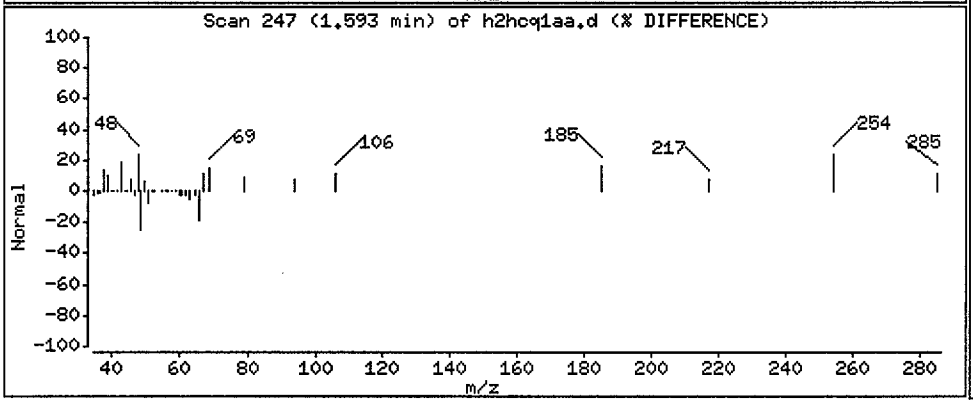
16 Chloroethane

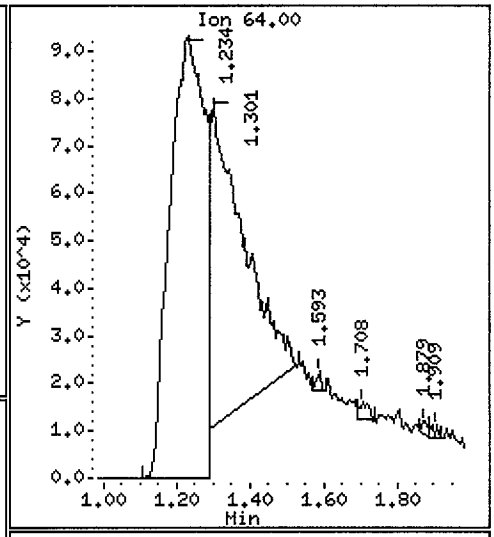
Concentration: 0.0085761 ug

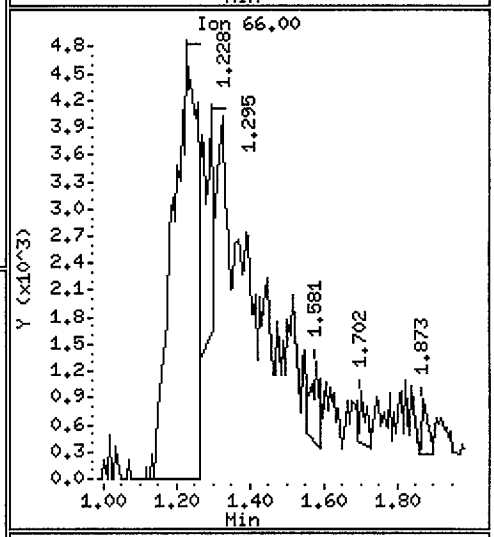


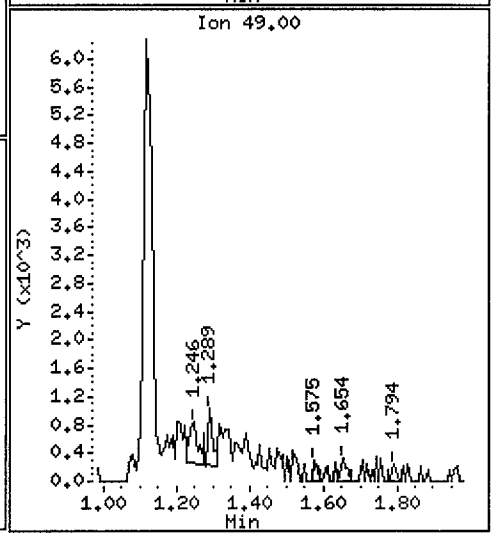












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

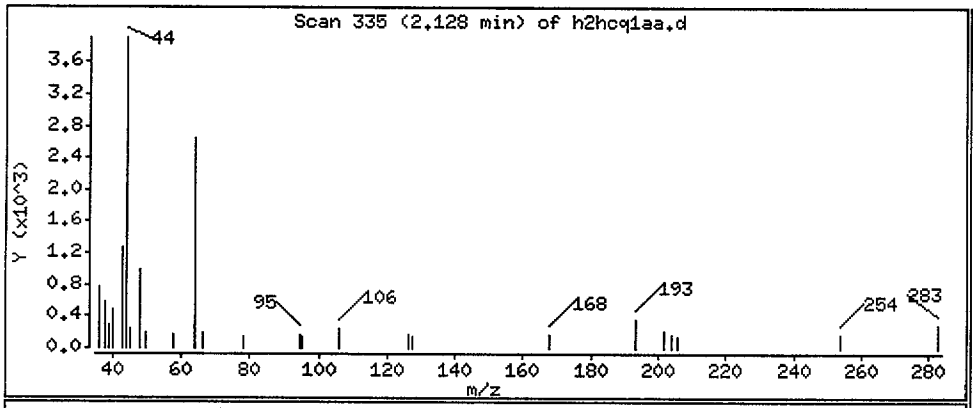
Operator: 22980

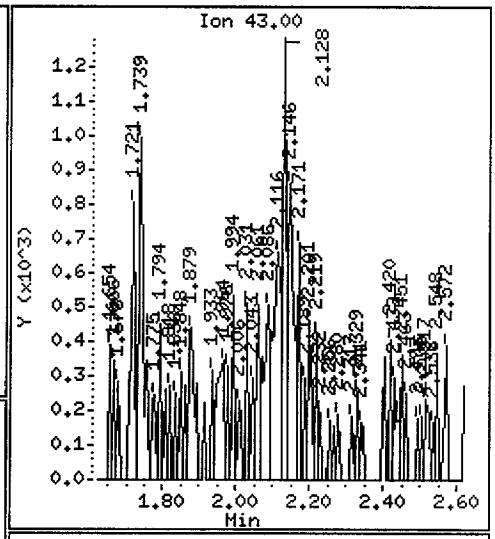
Column phase: J+W 624

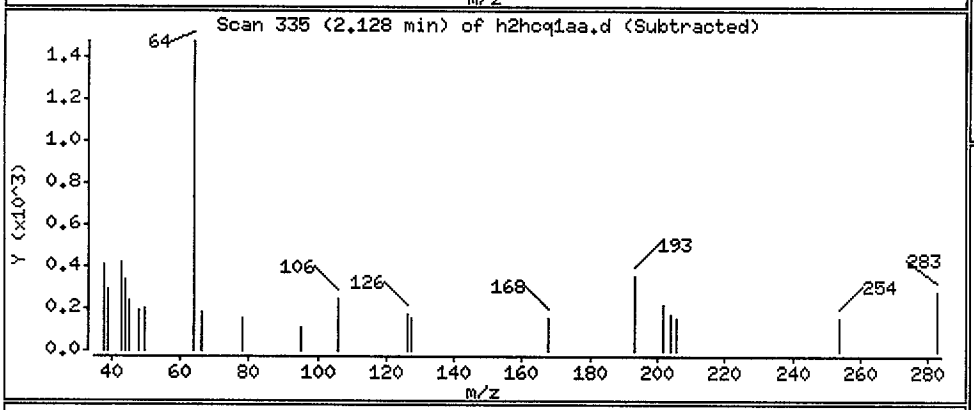
Column diameter: 0.18

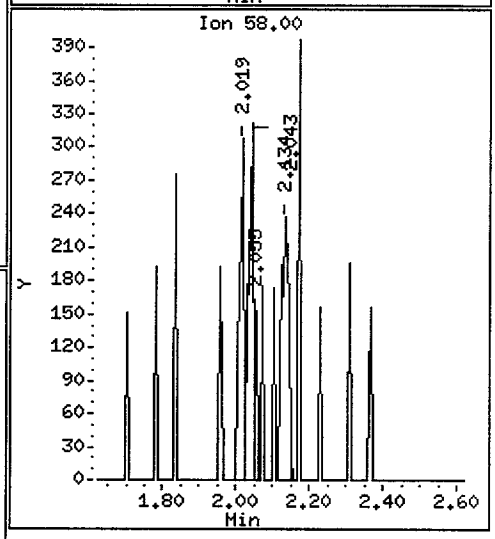
22 Acetone

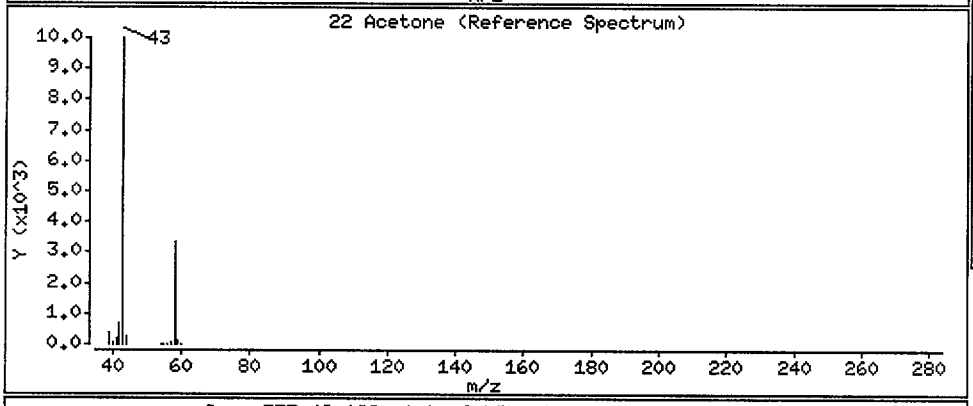
Concentration: 0.088359 ug

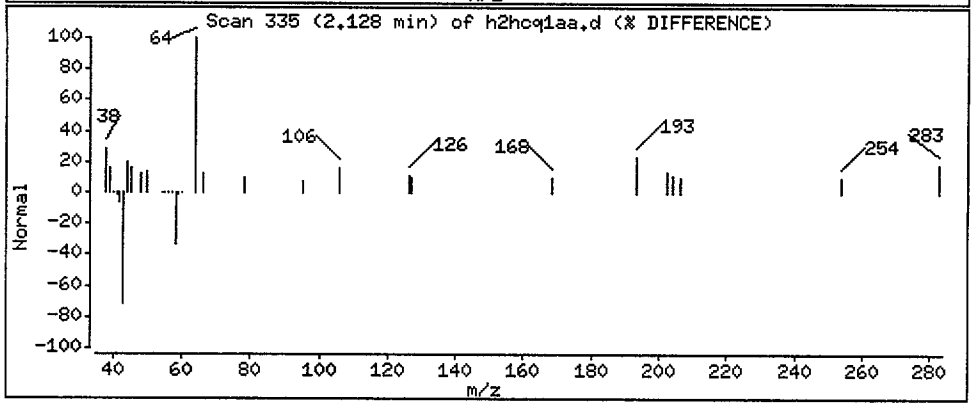












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

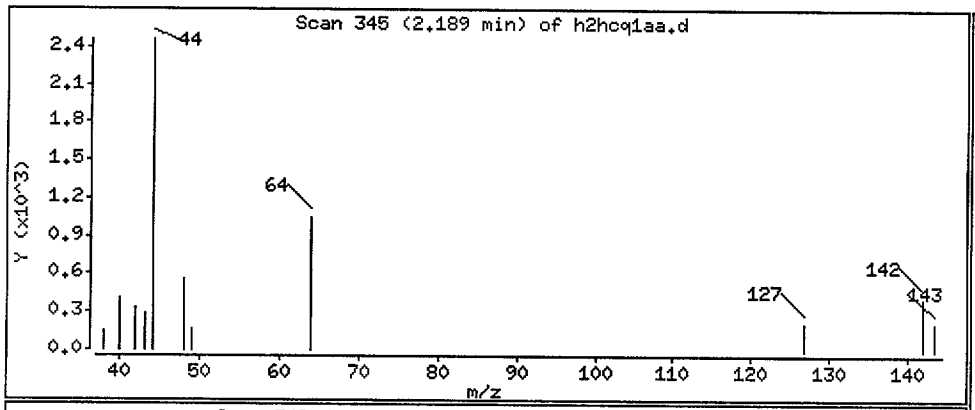
Operator: 22980

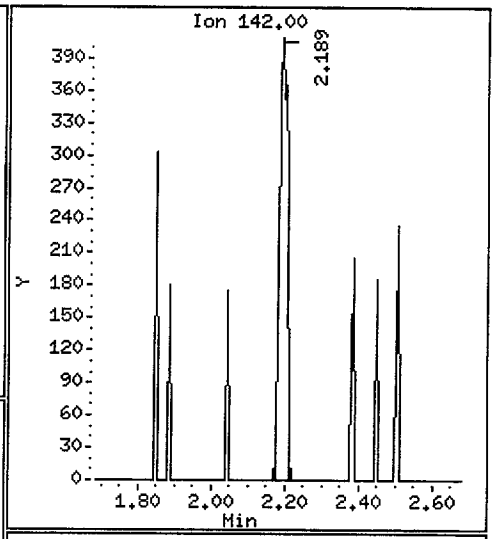
Column phase: J+W 624

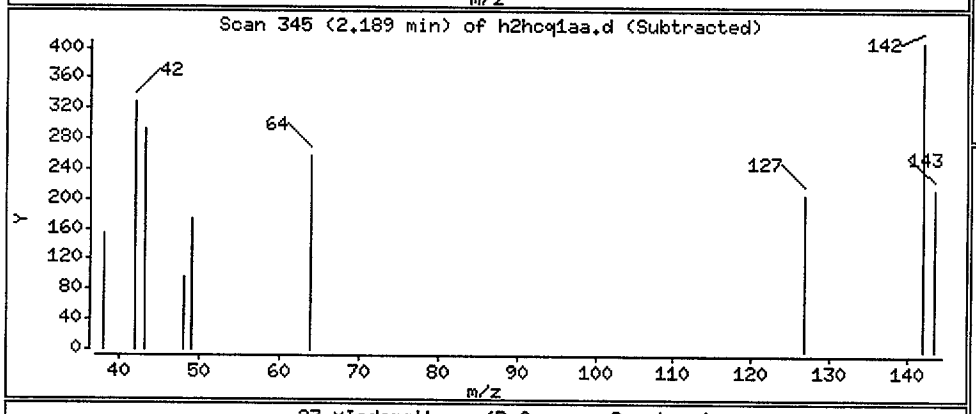
Column diameter: 0.18

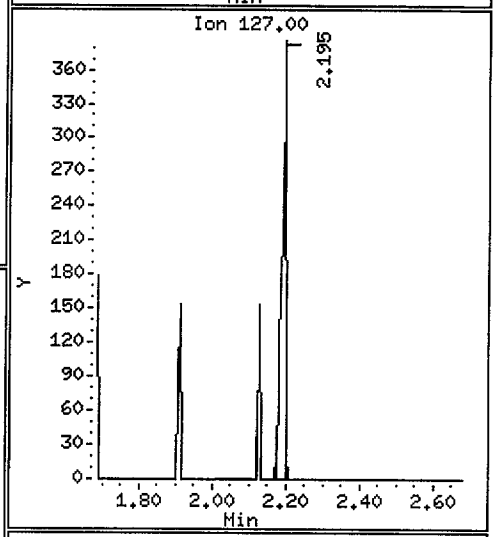
23 *Iodomethane

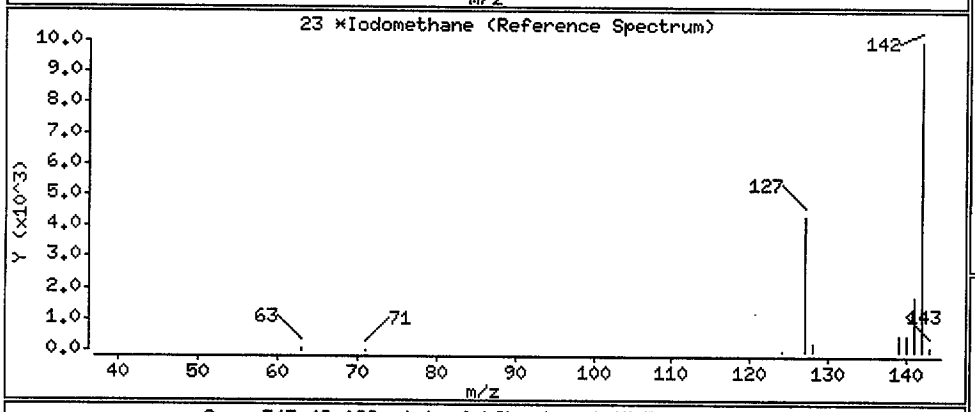
Concentration: 0.013995 ug

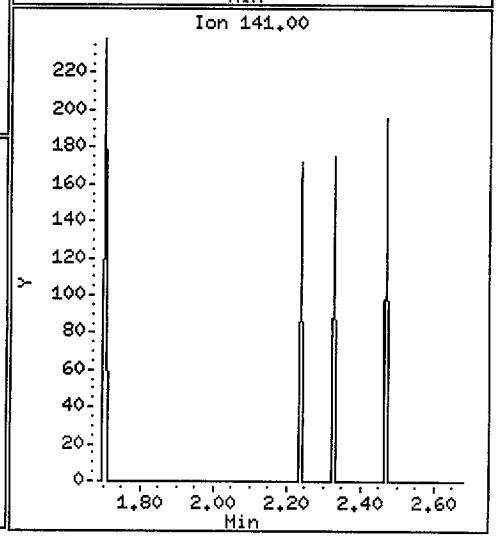


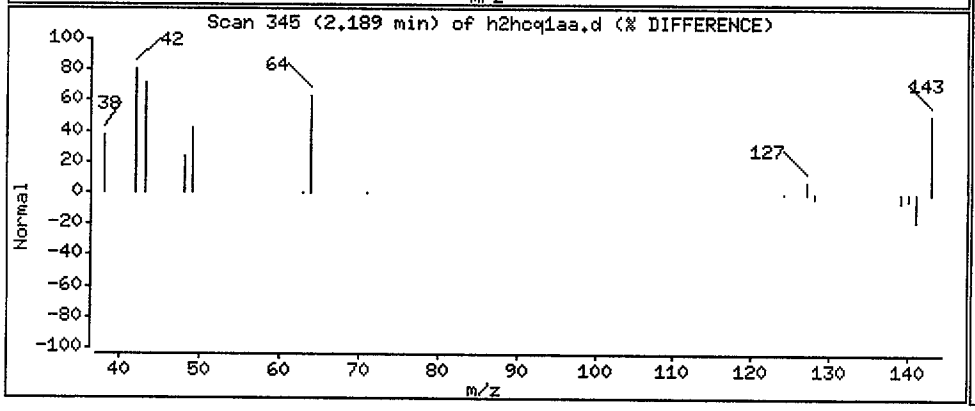












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

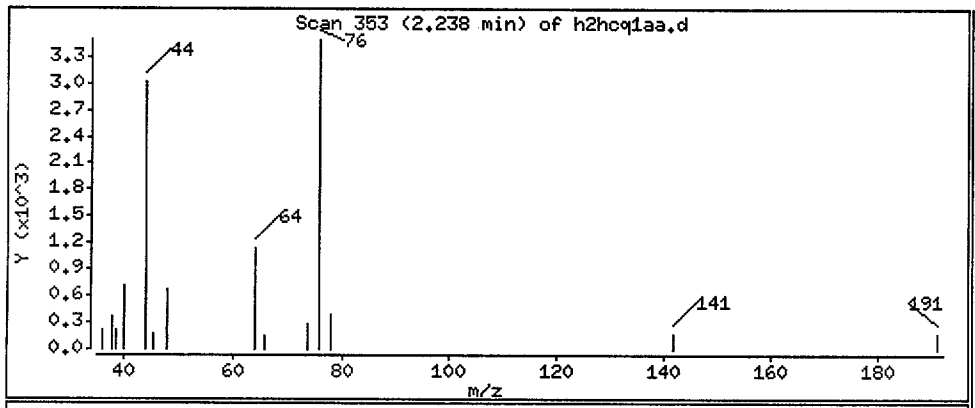
Operator: 22980

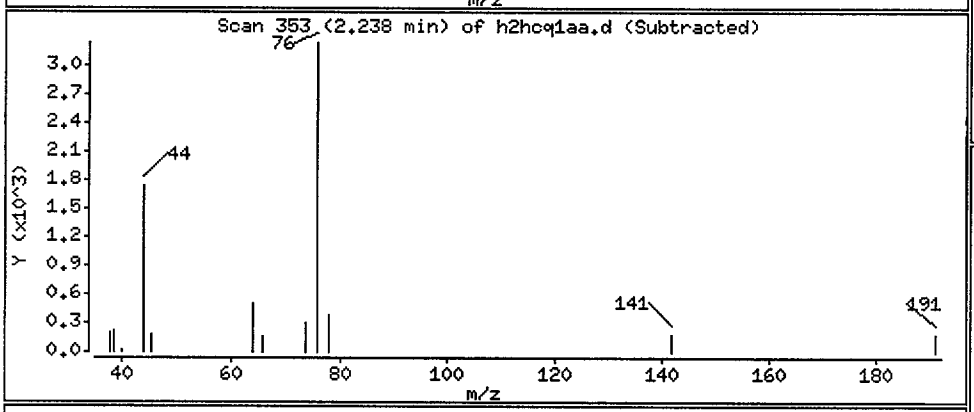
Column phase: J+W 624

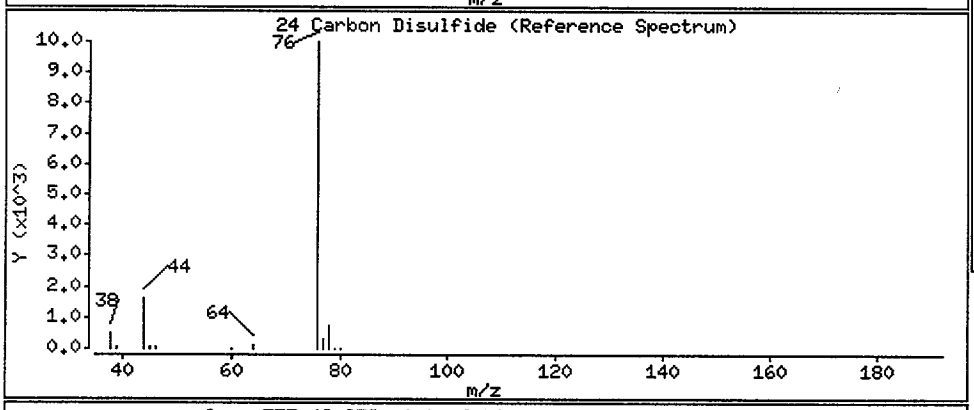
Column diameter: 0.18

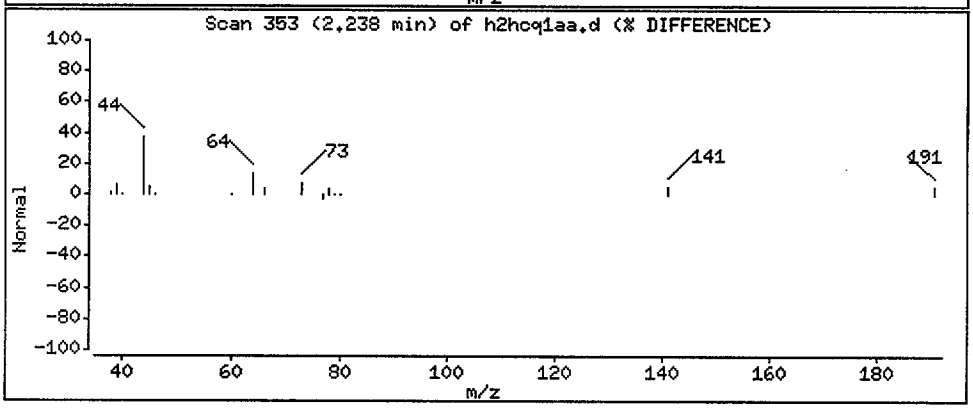
24 Carbon Disulfide

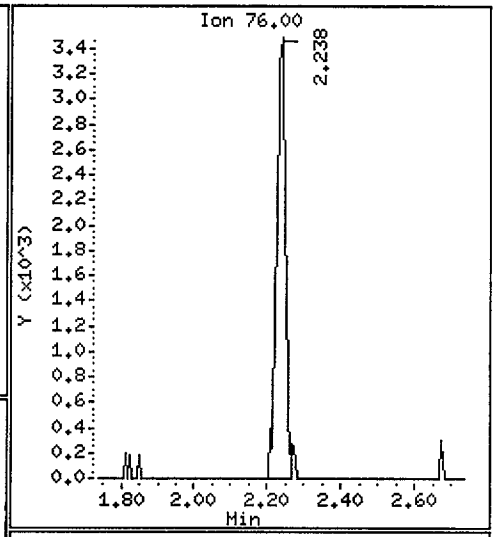
Concentration: 0.0027365 ug

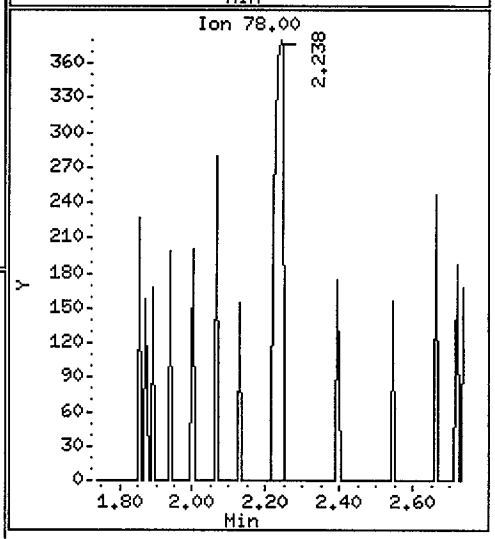












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

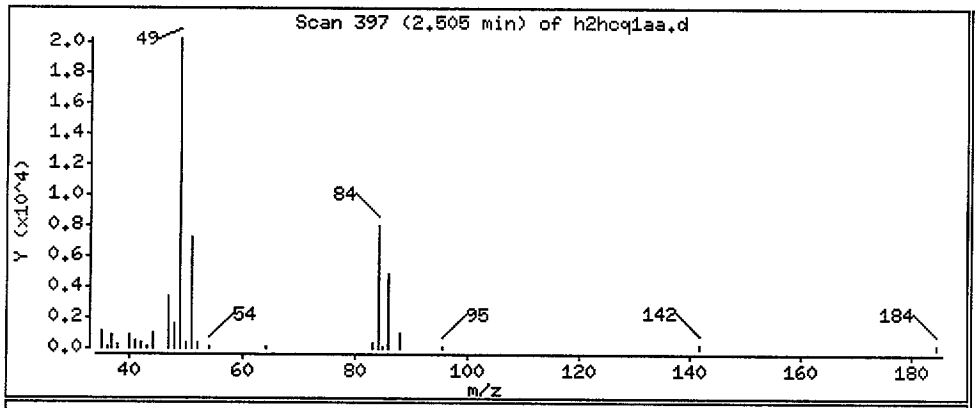
Operator: 22980

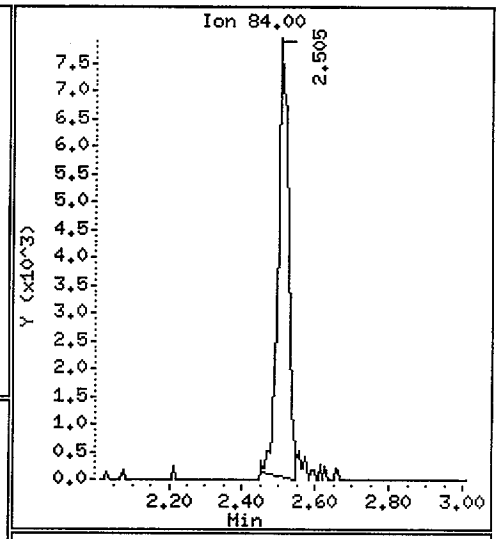
Column phase: J+W 624

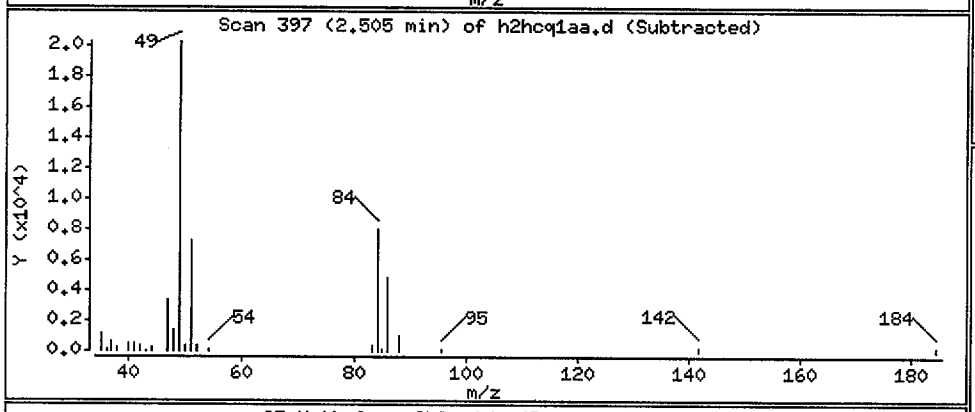
Column diameter: 0.18

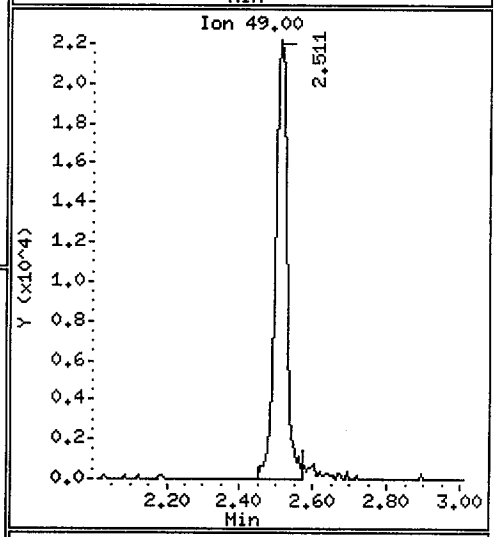
27 Methylene Chloride

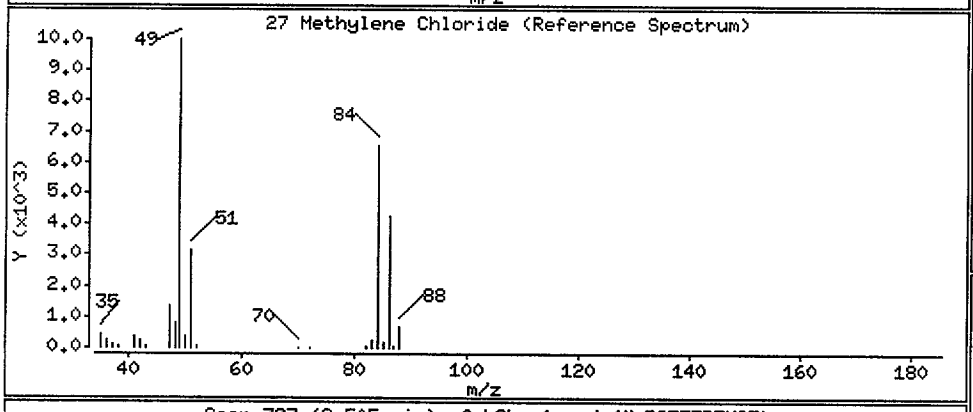
Concentration: 0.034743 ug

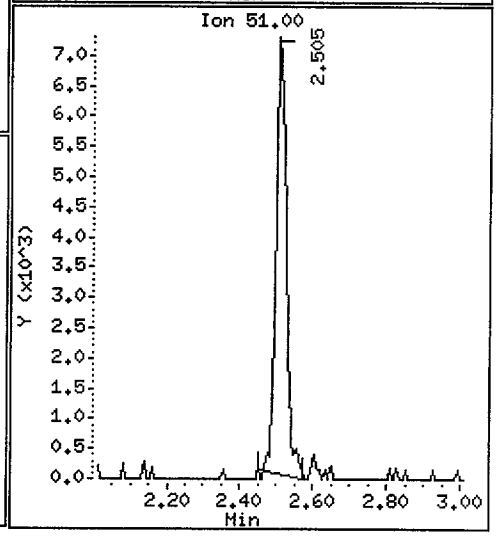


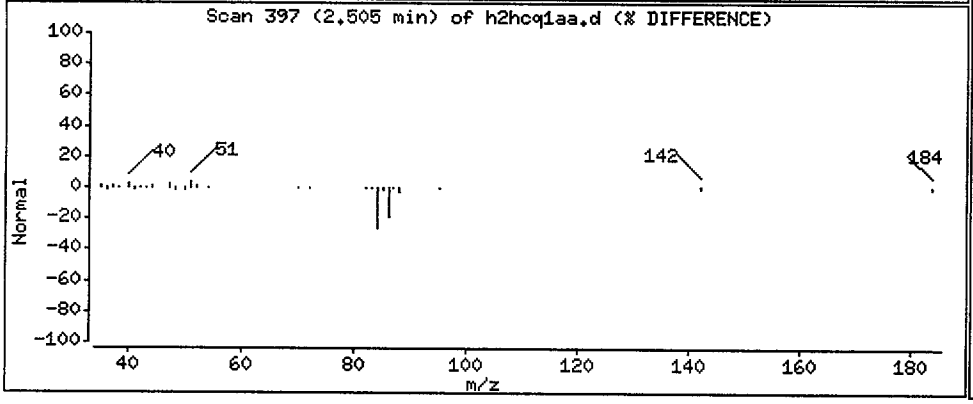












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

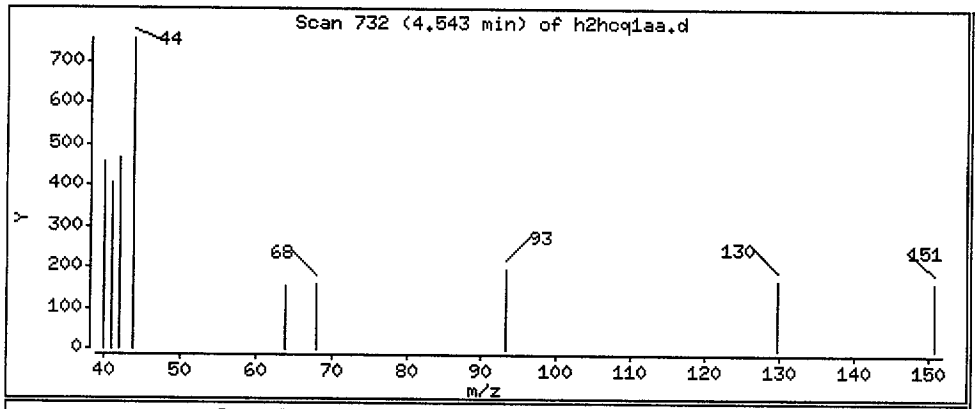
Operator: 22980

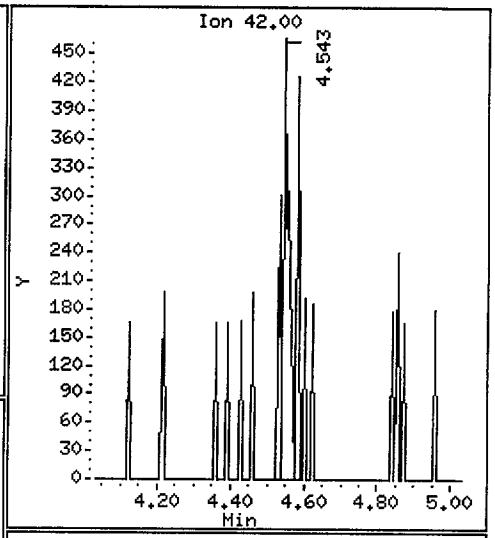
Column phase: J+W 624

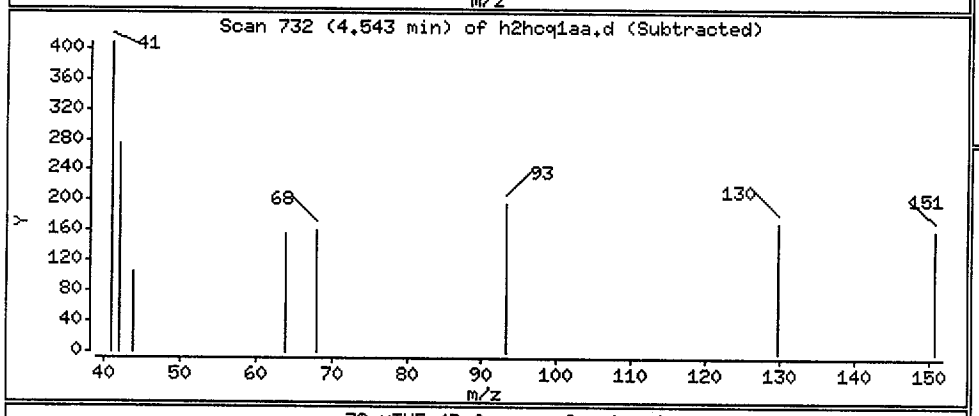
Column diameter: 0.18

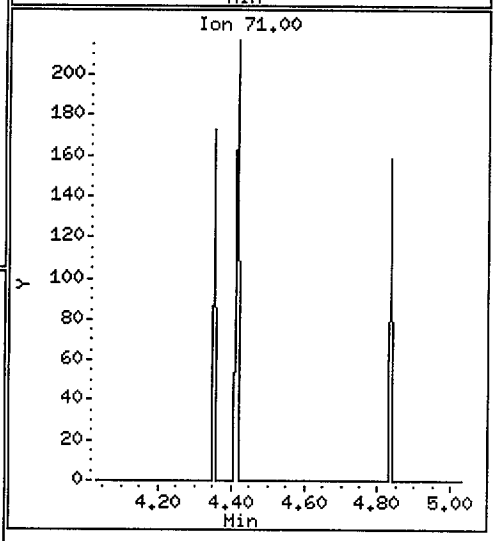
39 *THF

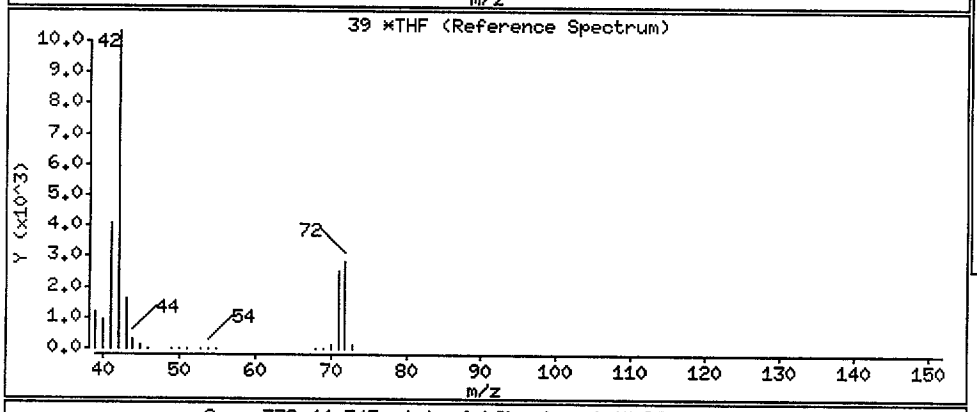
Concentration: 0.013514 ug

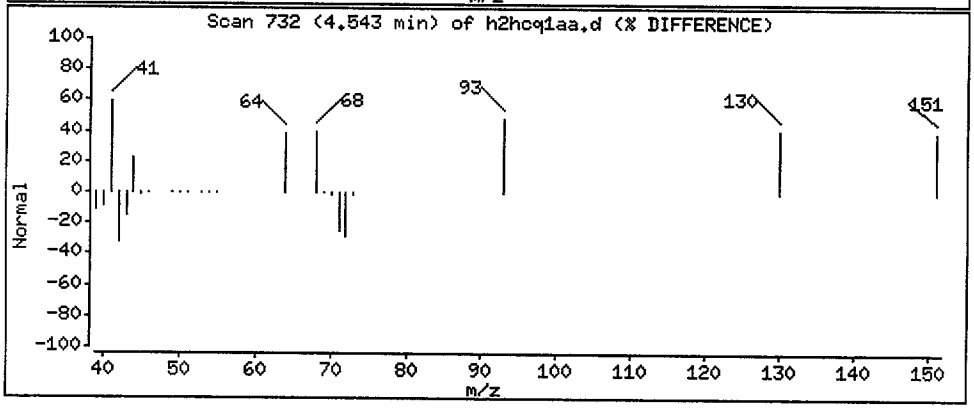












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

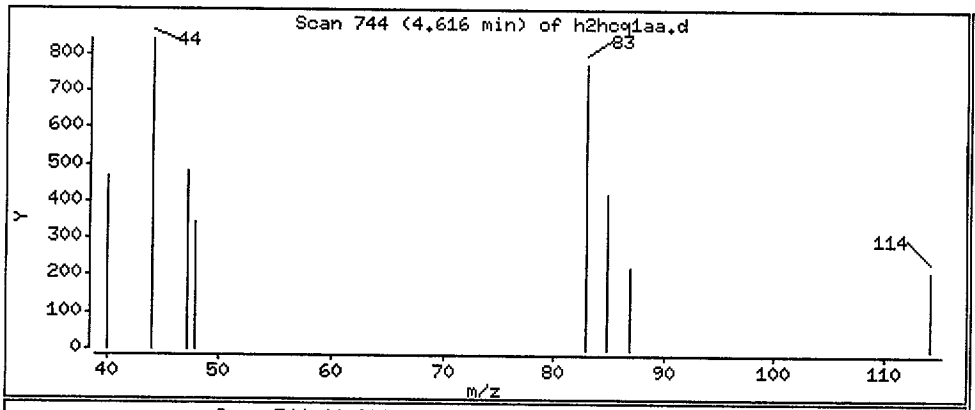
Operator: 22980

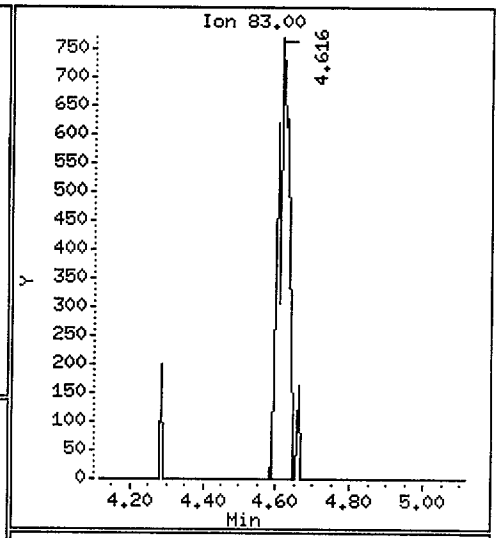
Column phase: J+W 624

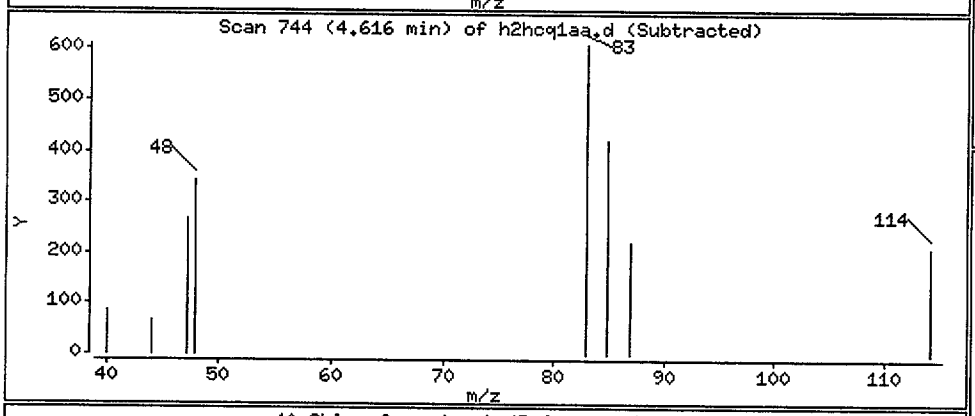
Column diameter: 0.18

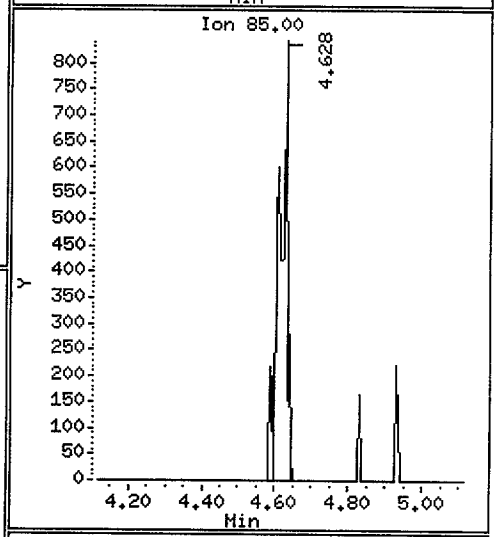
40 Chloroform (ccc)

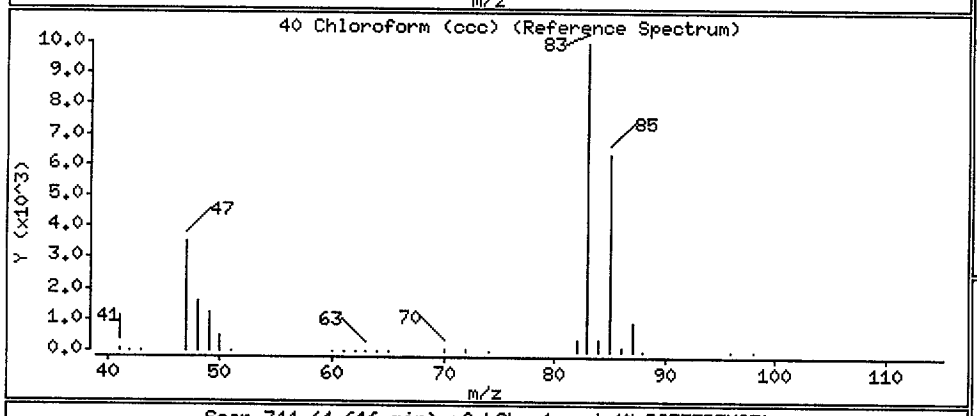
Concentration: 0.0015820 ug

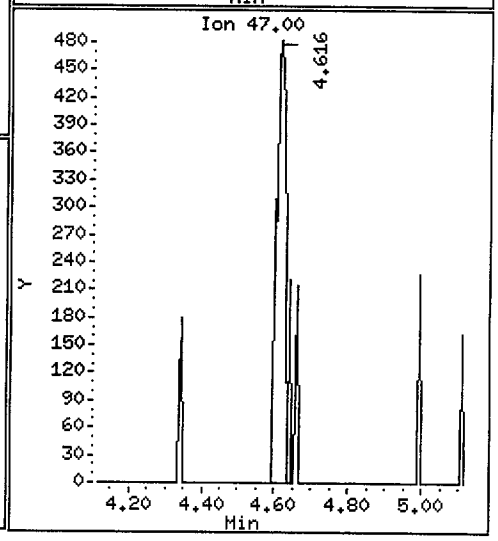


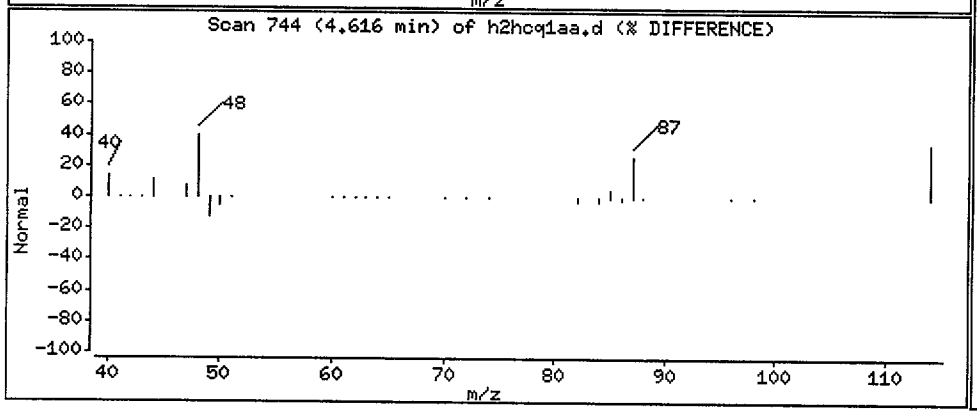












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

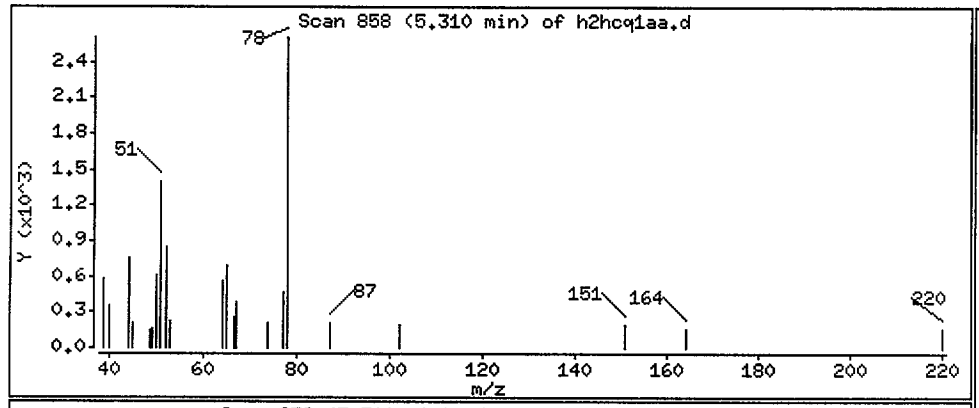
Operator: 22980

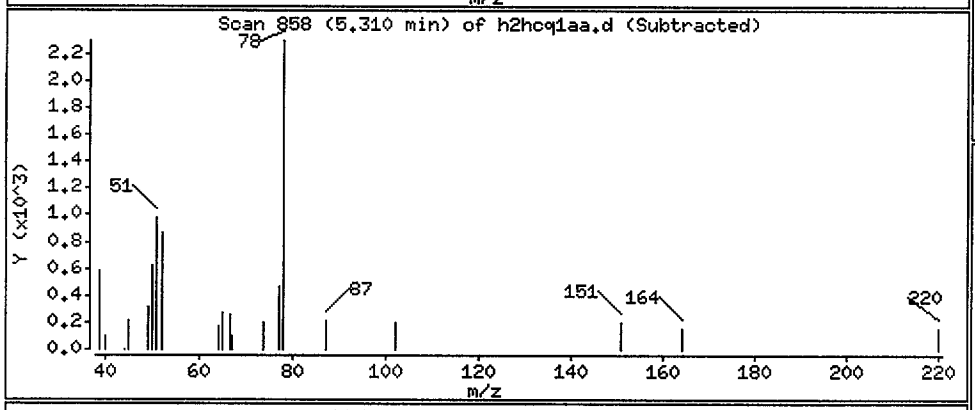
Column phase: J+W 624

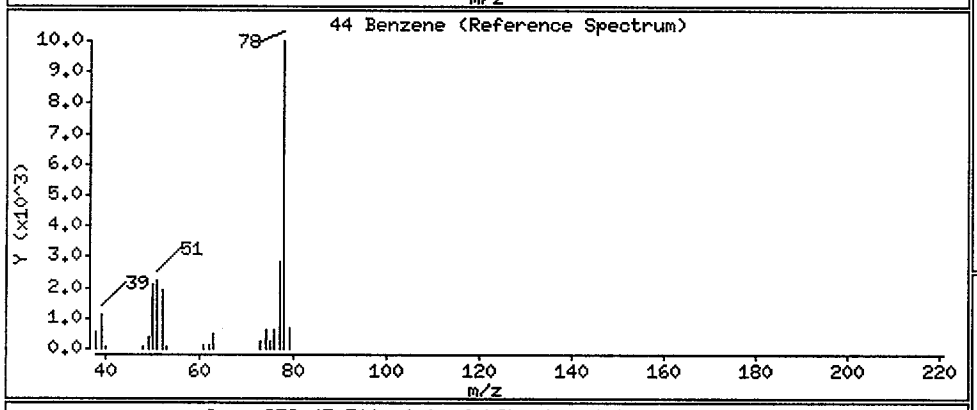
Column diameter: 0.18

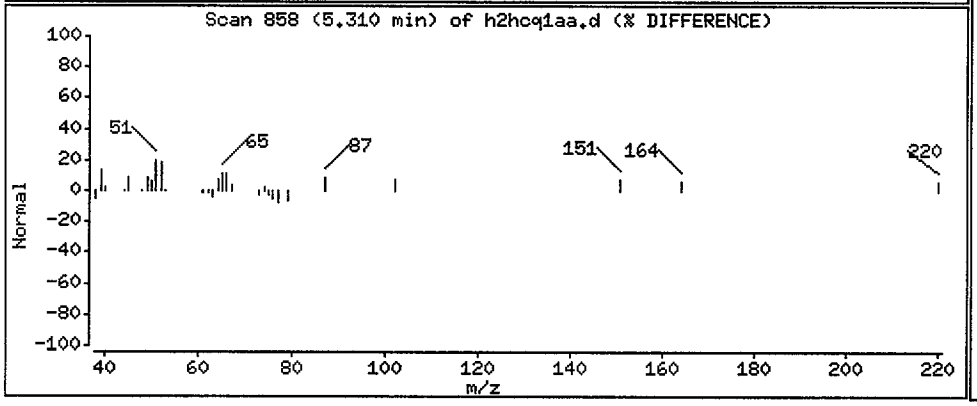
44 Benzene

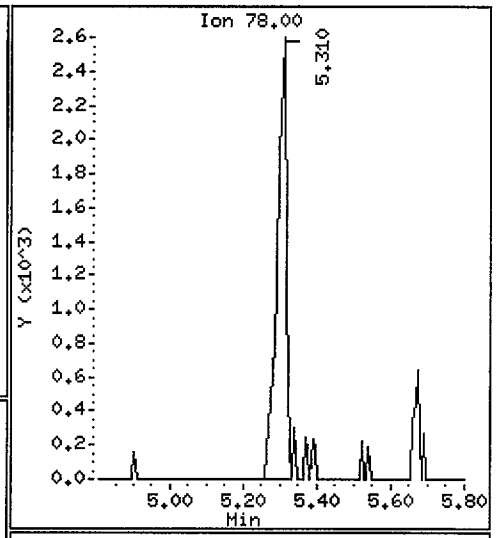
Concentration: 0.0016993 ug

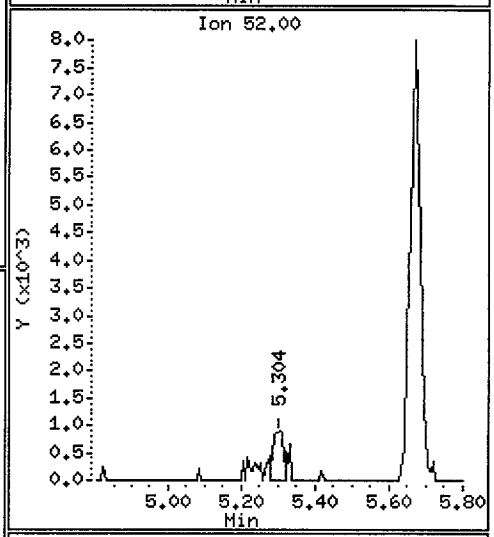


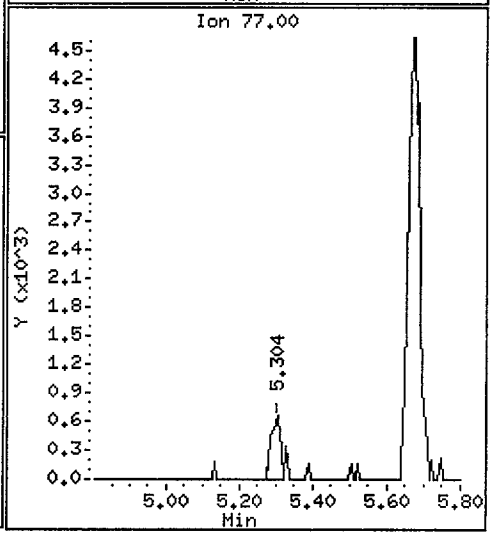












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

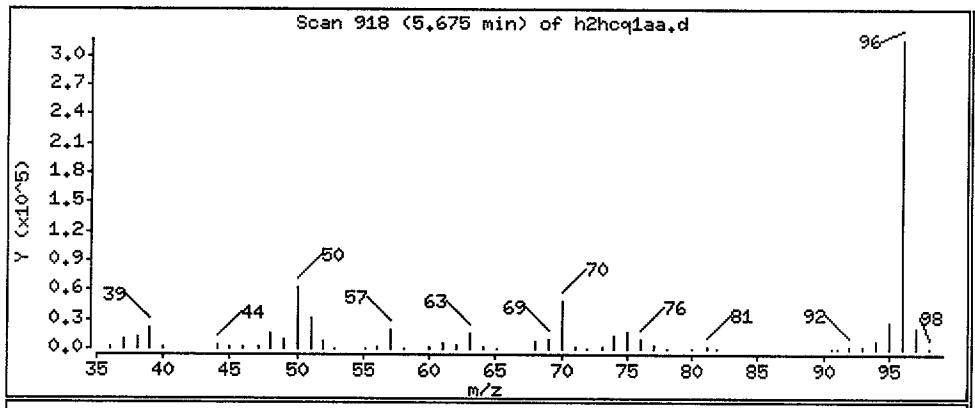
Operator: 22980

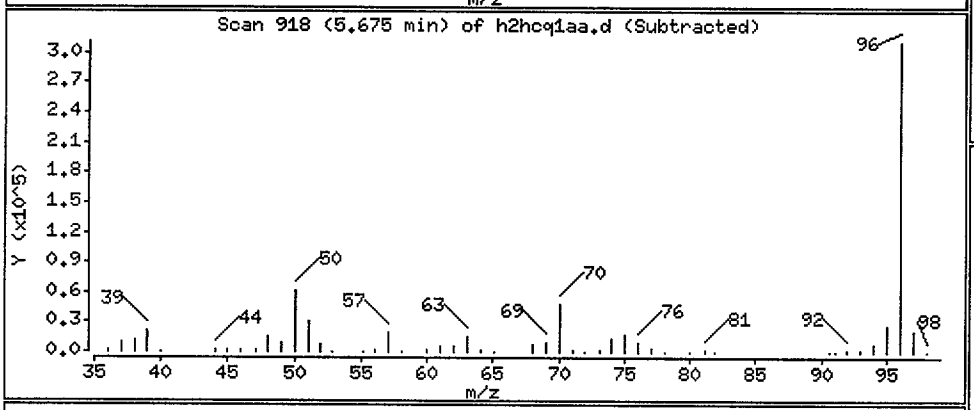
Column phase: J+W 624

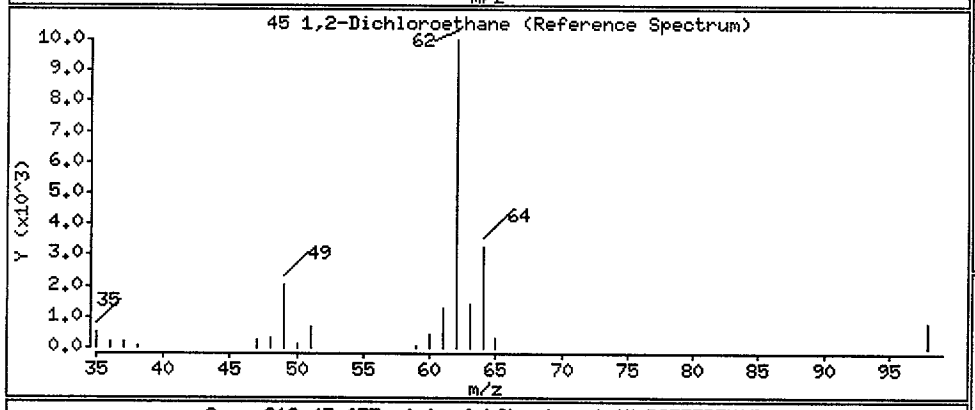
Column diameter: 0.18

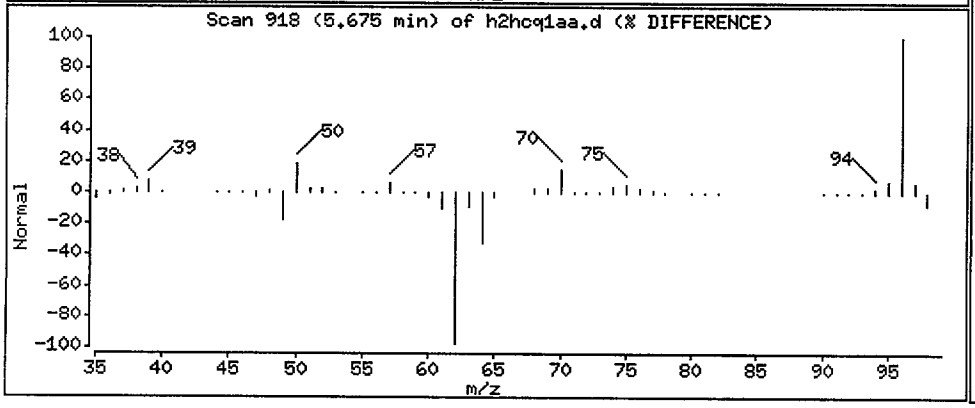
45 1,2-Dichloroethane

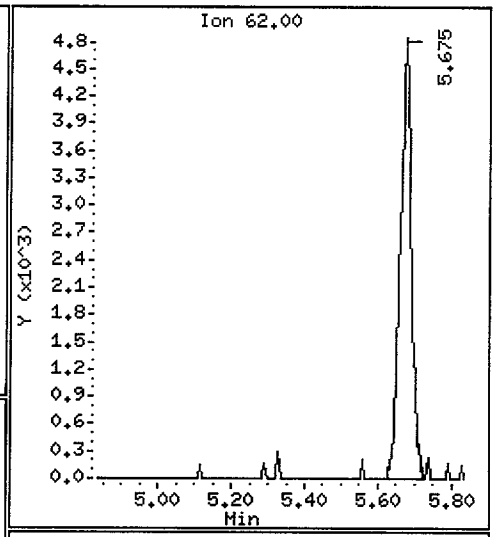
Concentration: 0.018888 ug

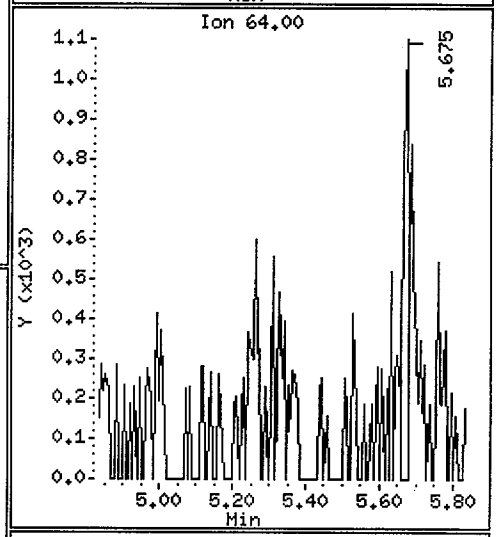


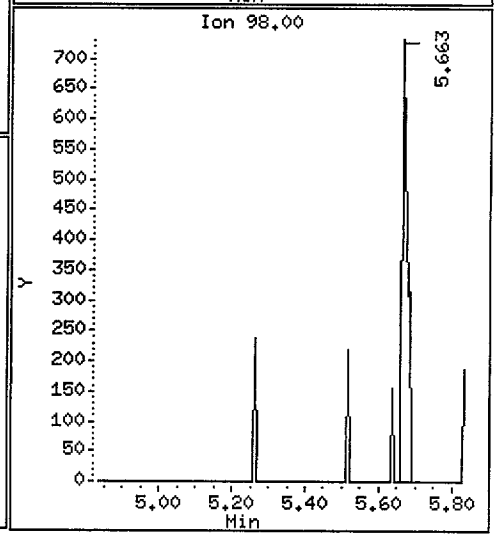












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

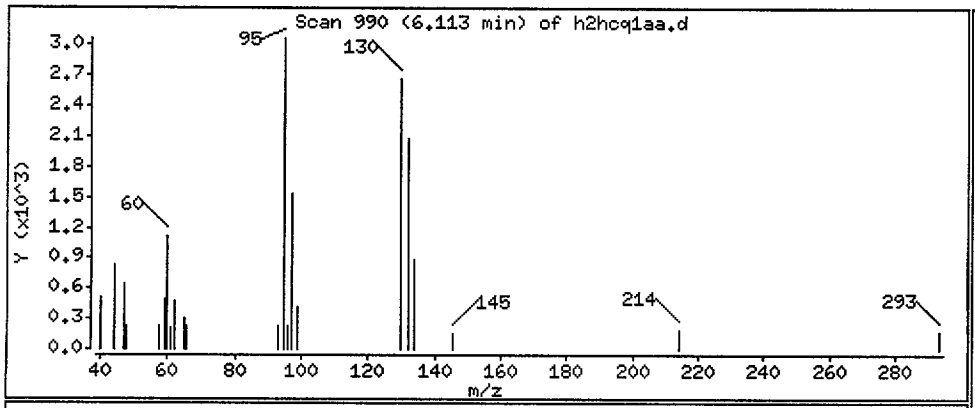
Operator: 22980

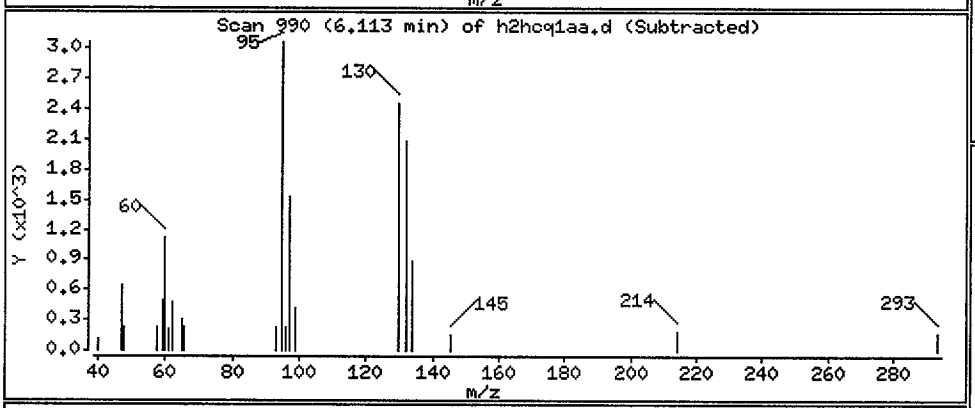
Column phase: J+W 624

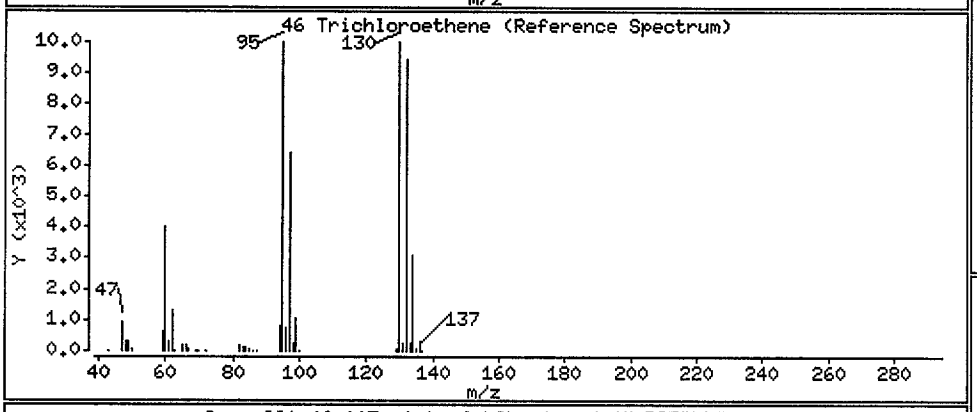
Column diameter: 0.18

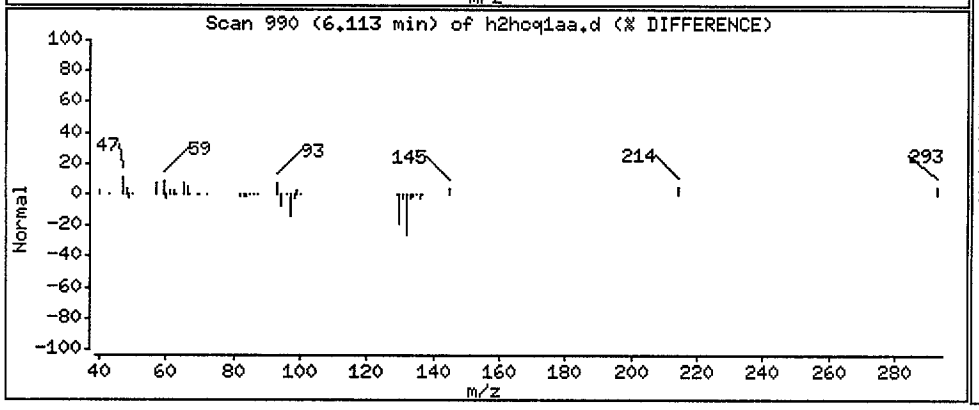
46 Trichloroethene

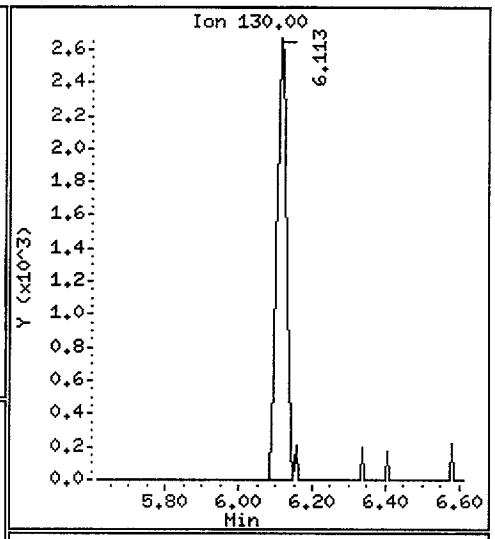
Concentration: 0.0066739 ug

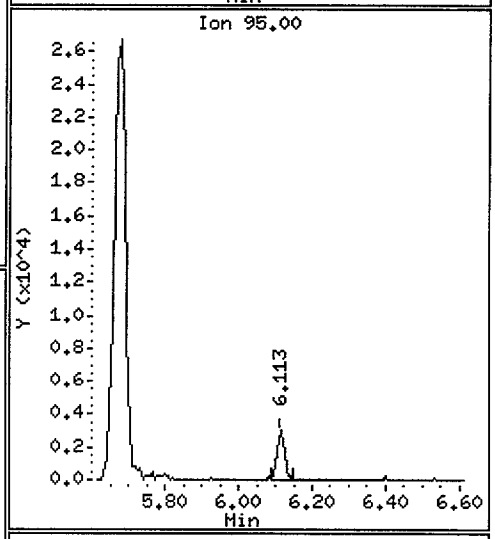


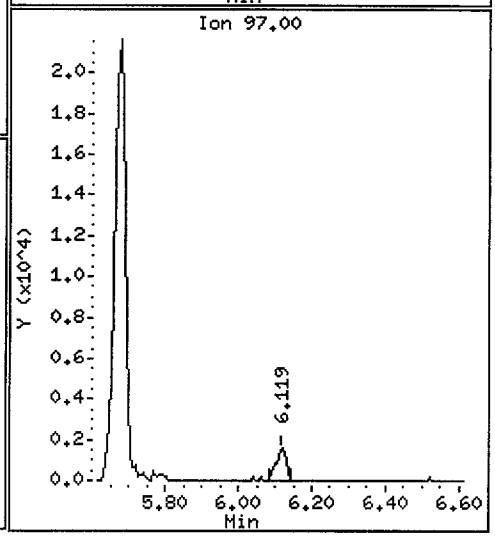












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

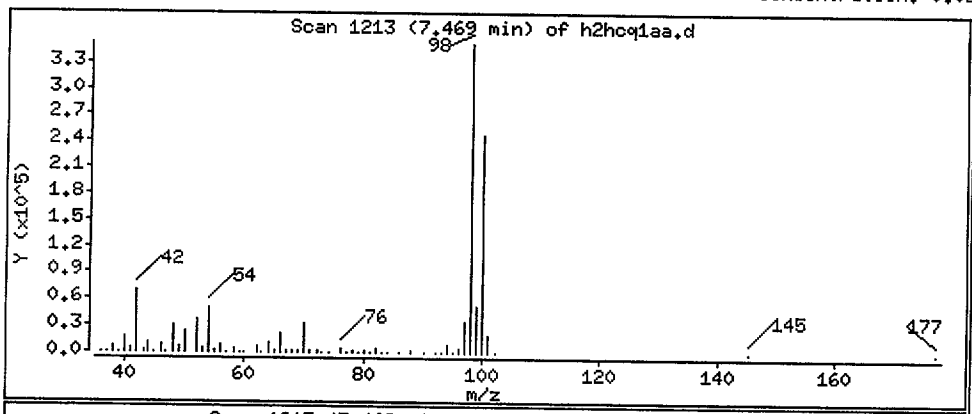
Operator: 22980

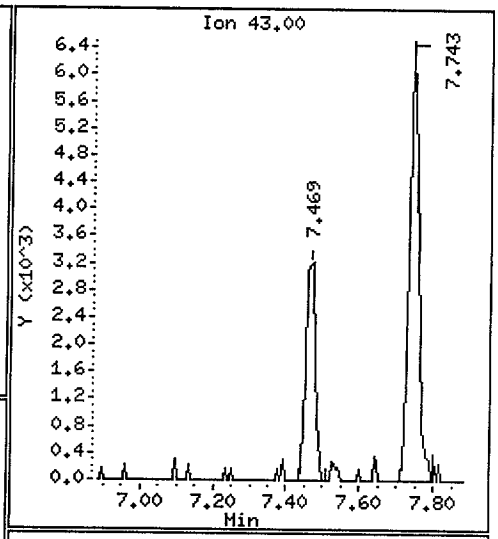
Column phase: J+W 624

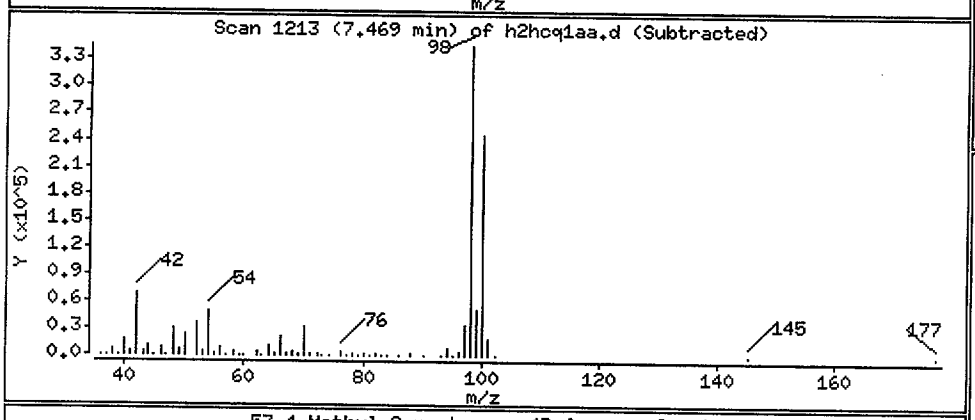
Column diameter: 0.18

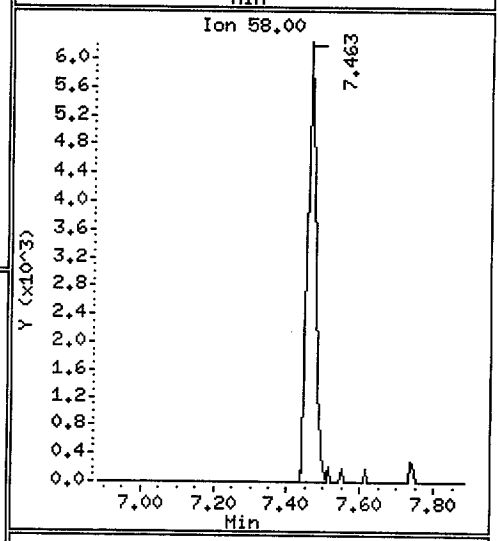
53 4-Methyl-2-pentanone

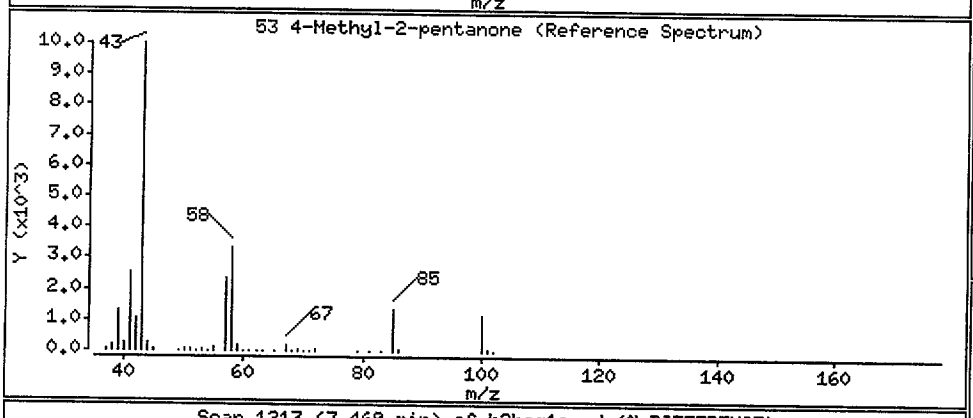
Concentration: 0.024514 ug

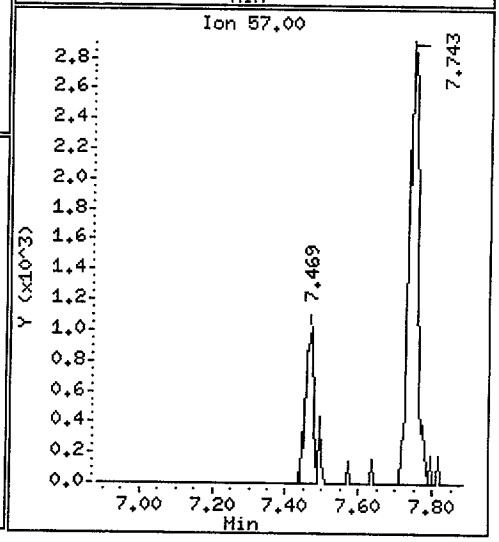


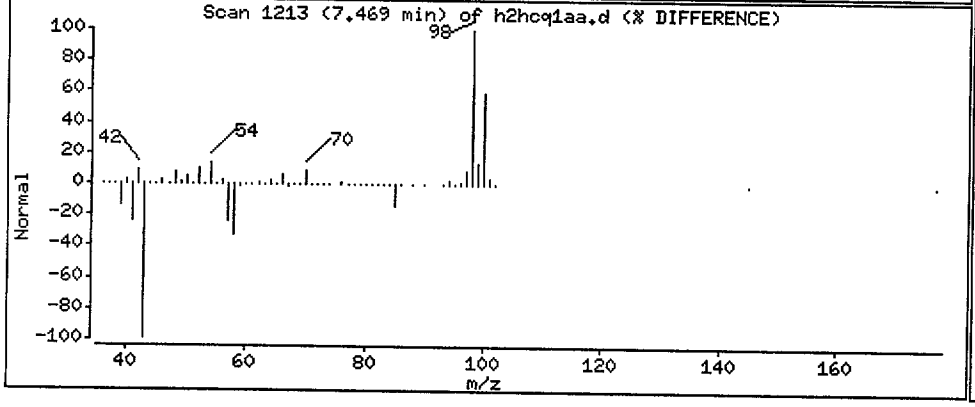












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

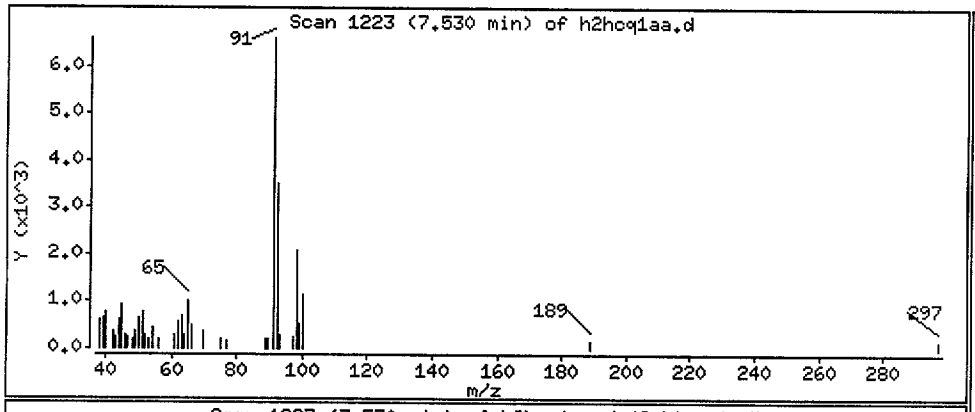
Operator: 22980

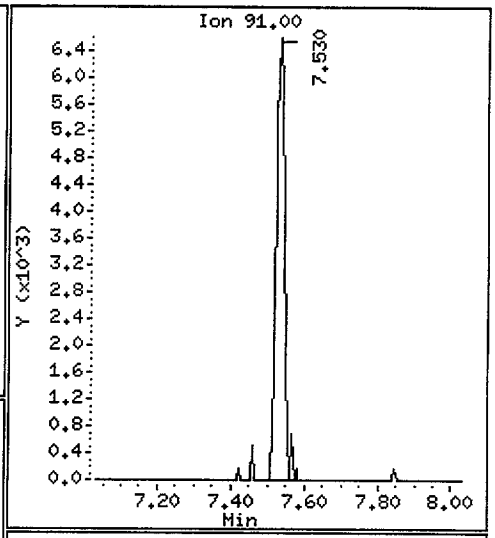
Column phase: J+W 624

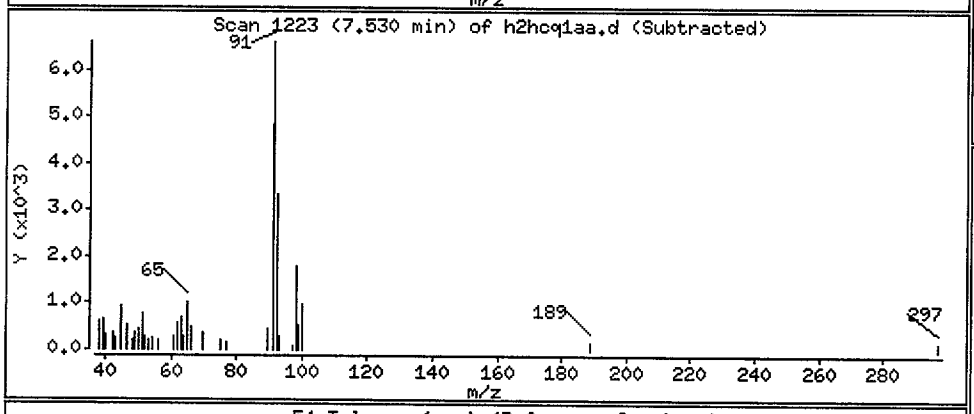
Column diameter: 0.18

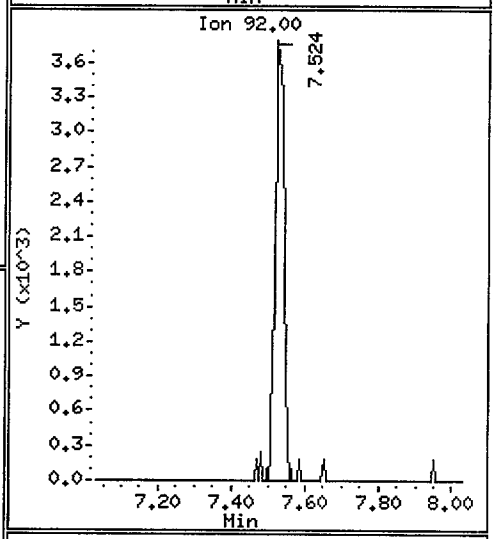
54 Toluene (ccc)

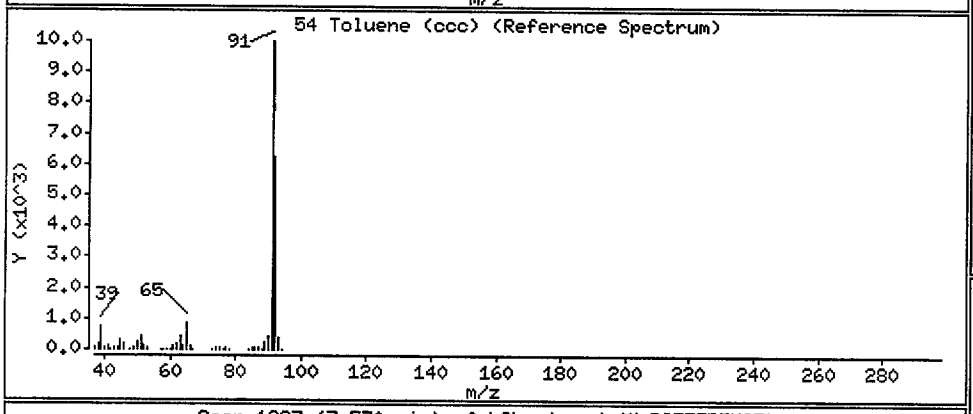
Concentration: 0.0025365 ug

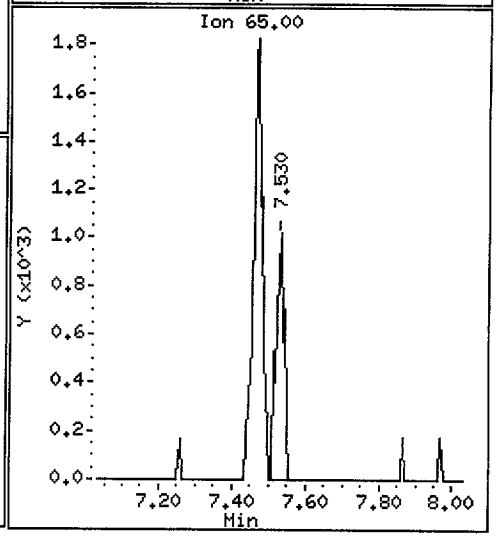


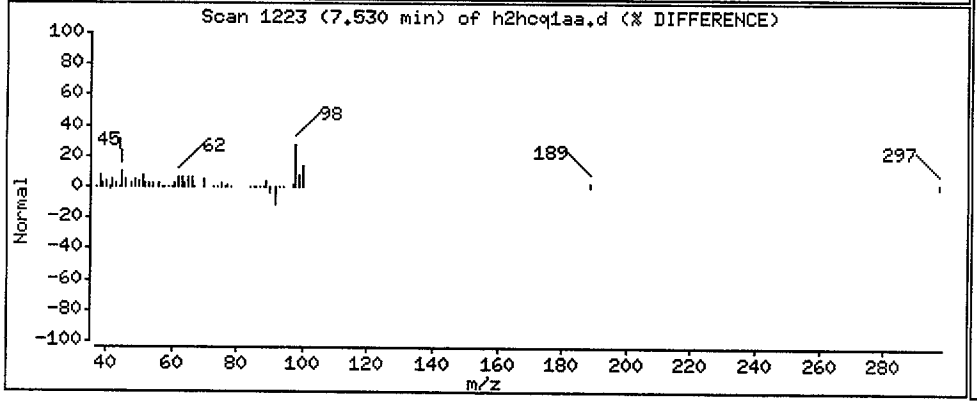












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

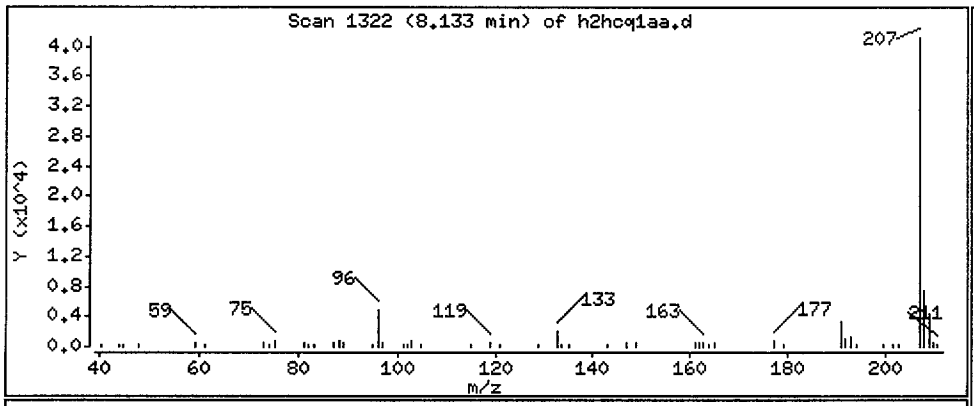
Operator: 22980

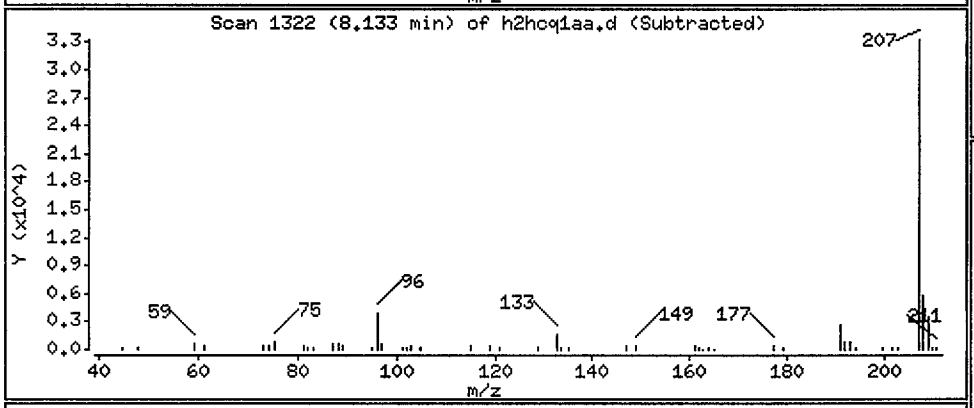
Column phase: J+W 624

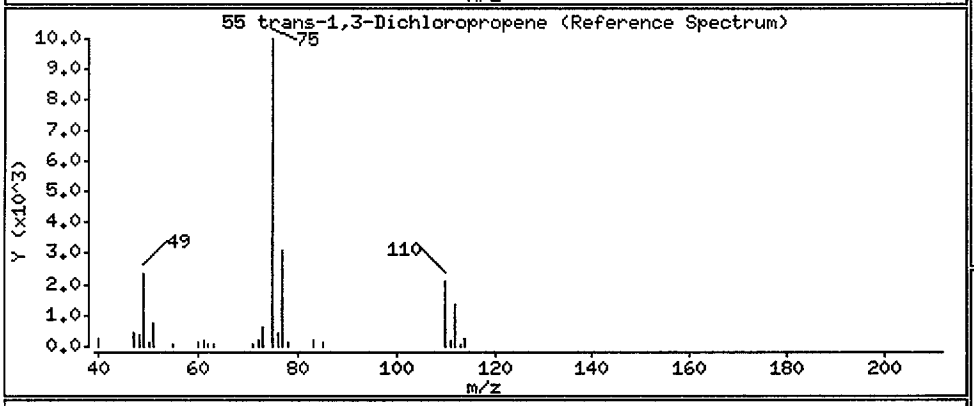
Column diameter: 0.18

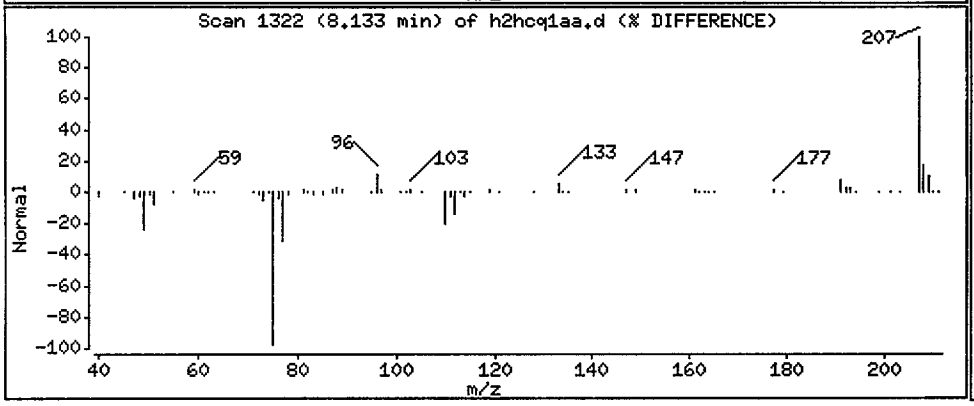
55 trans-1,3-Dichloropropene

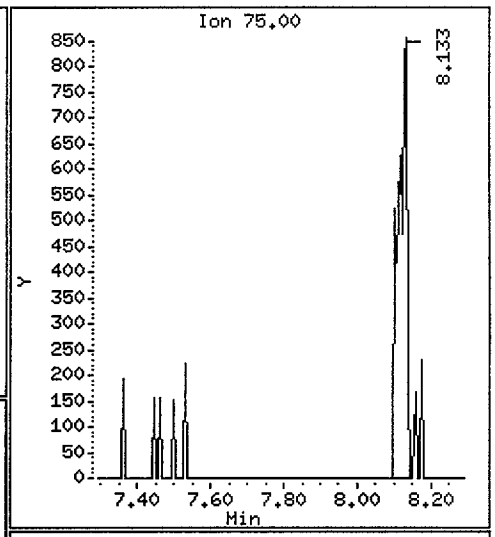
Concentration: 0.017913 ug

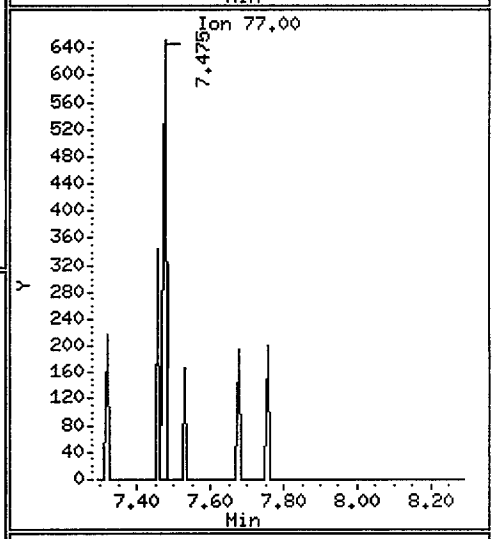


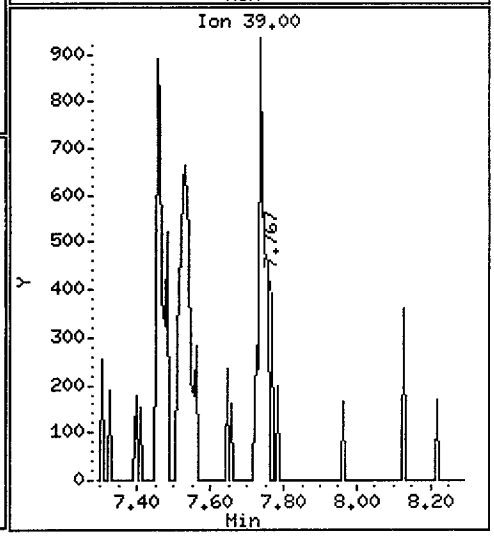












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

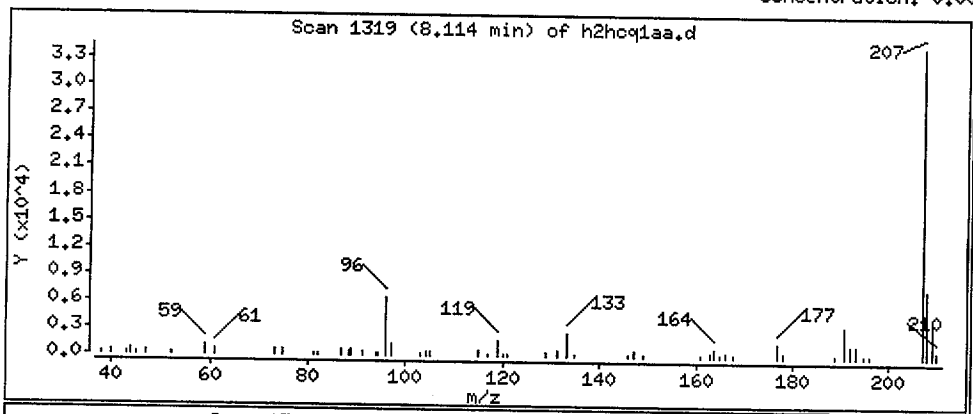
Operator: 22980

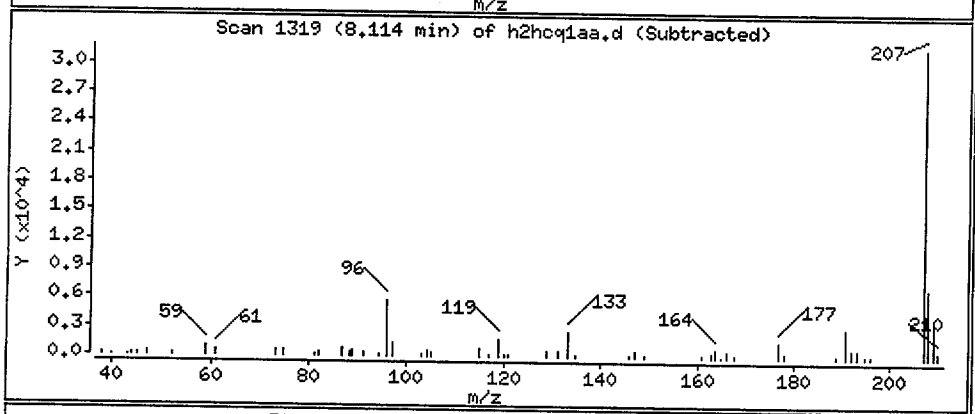
Column phase: J+W 624

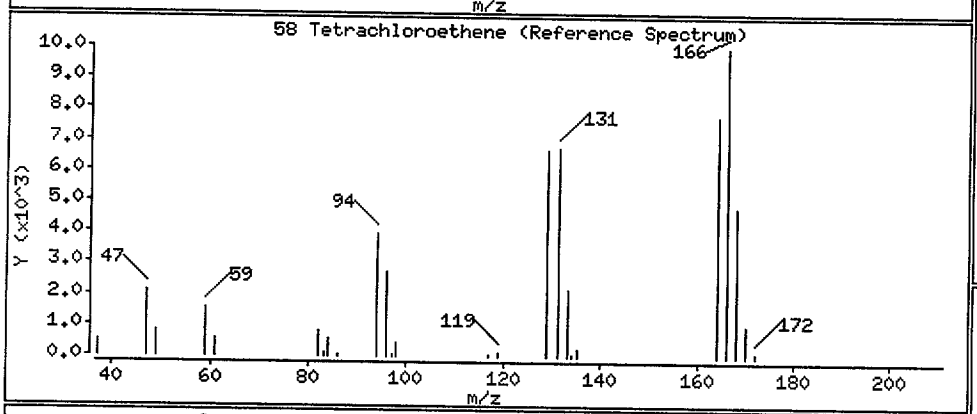
Column diameter: 0.18

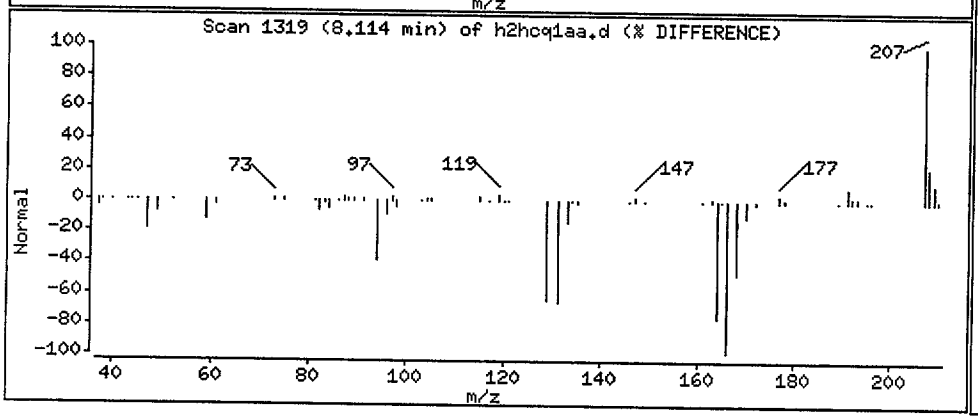
58 Tetrachloroethene

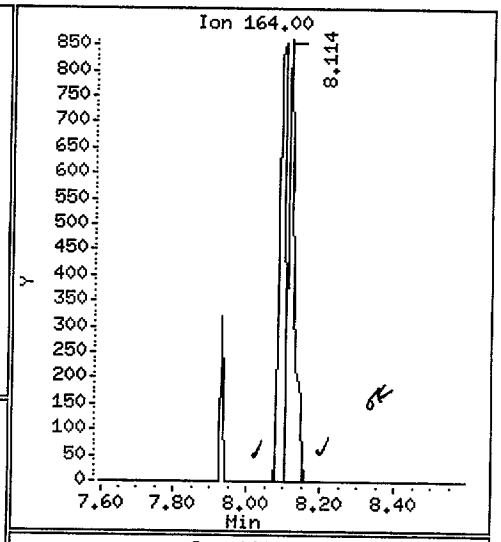
Concentration: 0.0023708 ug

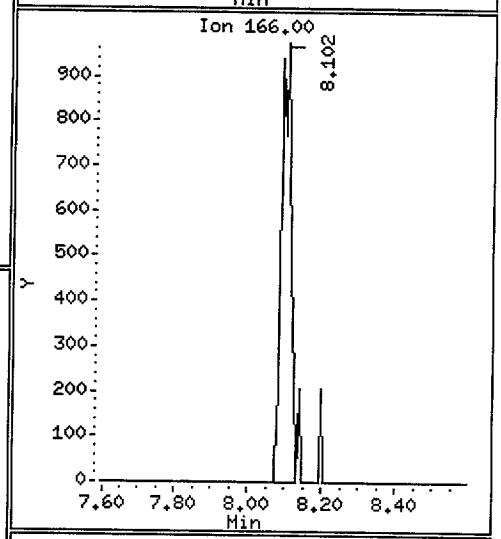


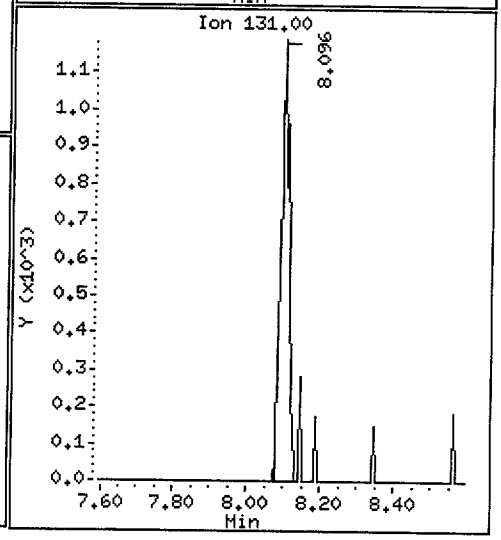












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

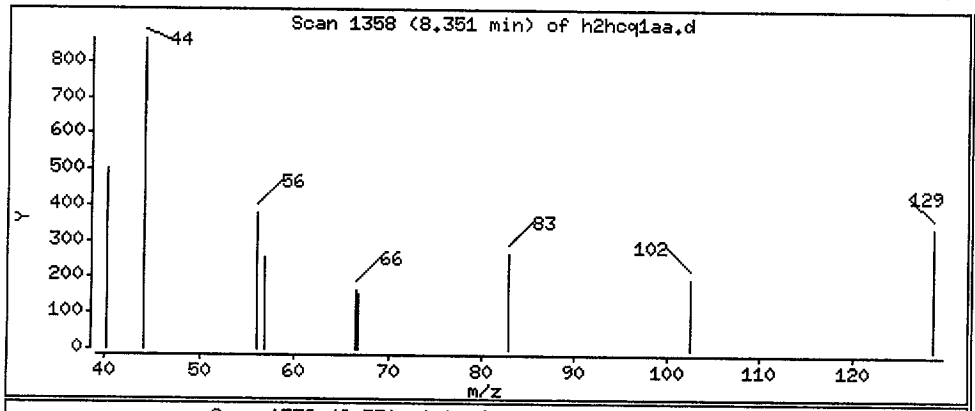
Operator: 22980

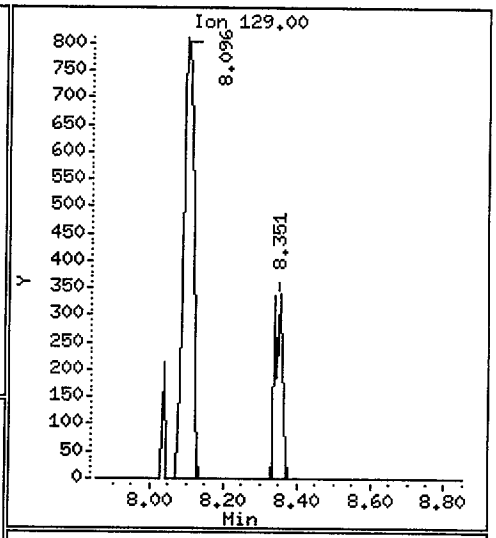
Column phase: J+W 624

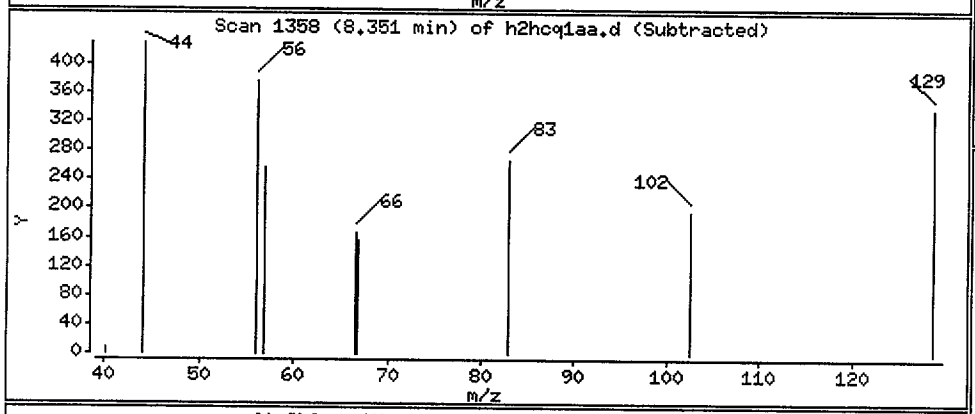
Column diameter: 0.18

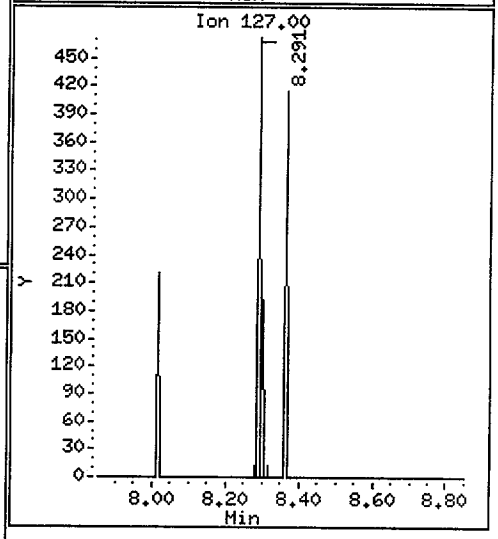
61 Chlorodibromomethane

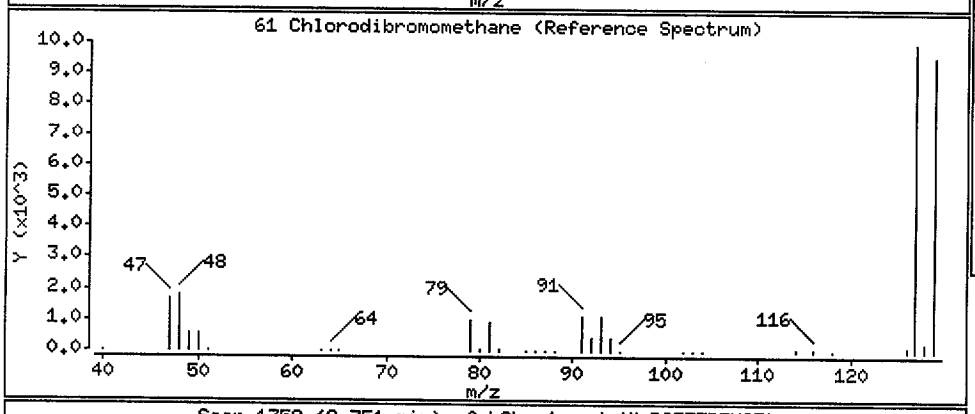
Concentration: 0.020513 ug

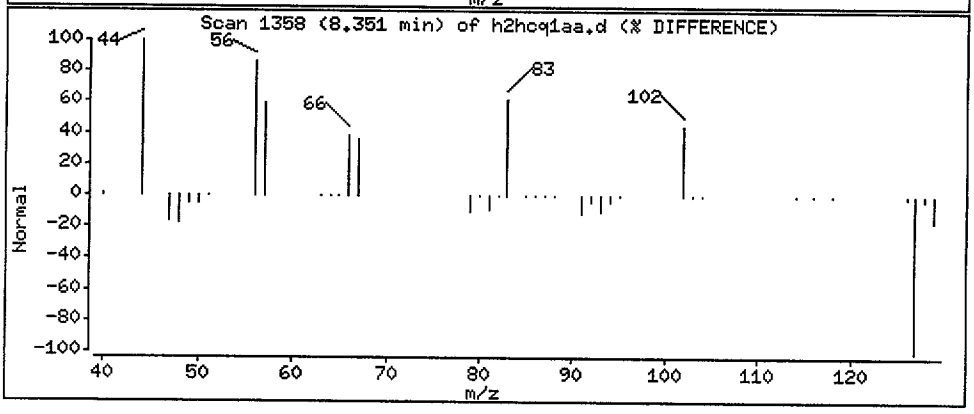












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

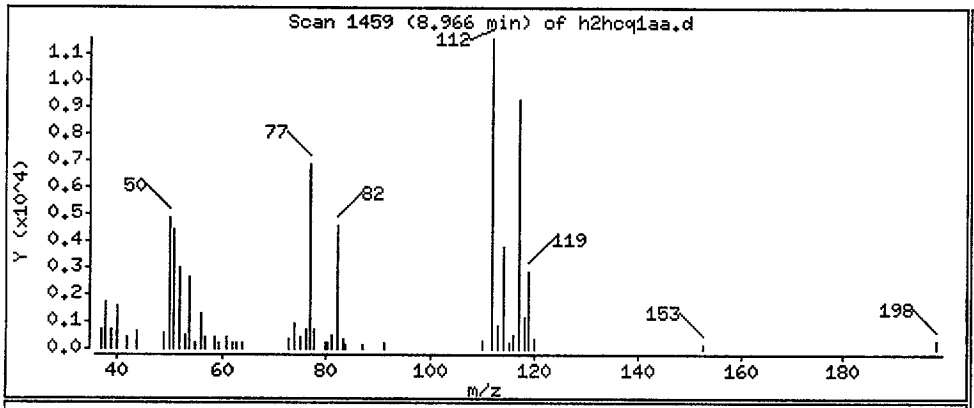
Operator: 22980

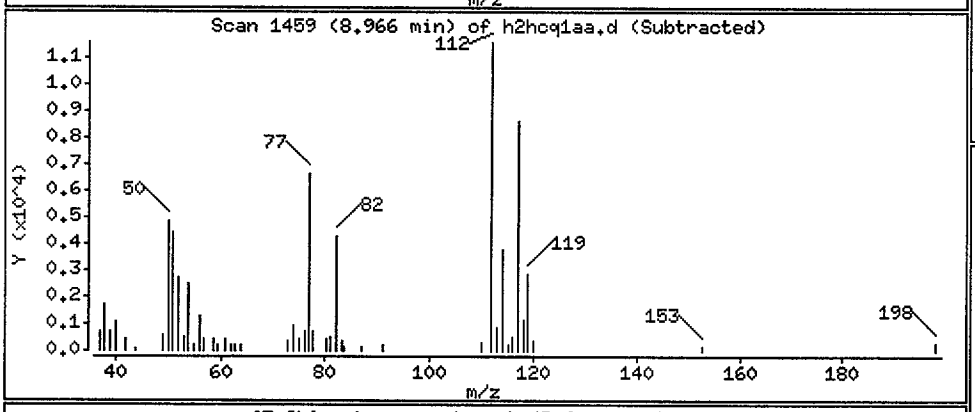
Column phase: J+W 624

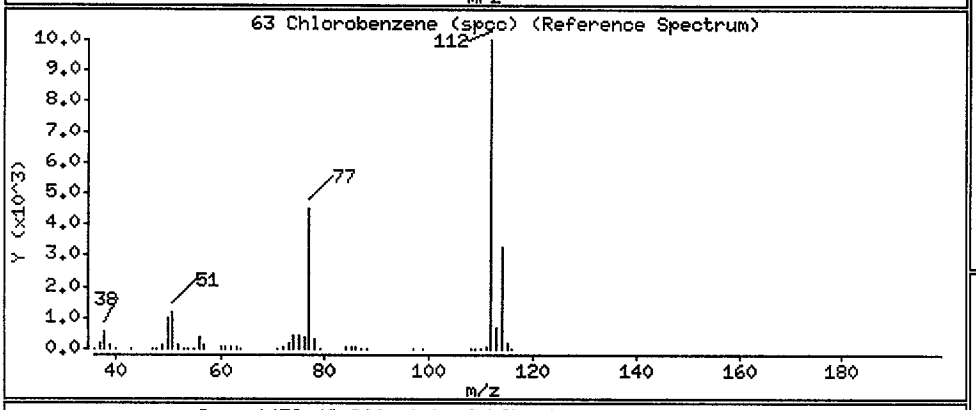
Column diameter: 0.18

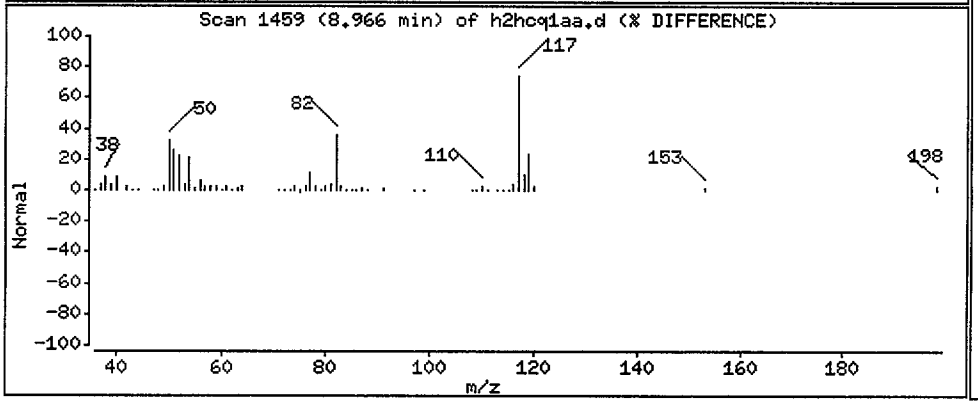
63 Chlorobenzene (spcc)

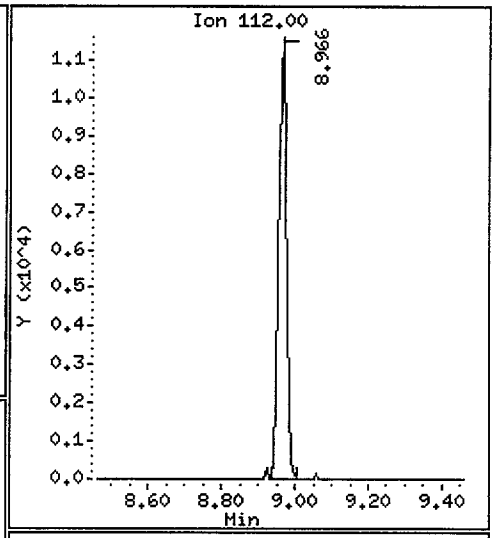
Concentration: 0.0076614 ug

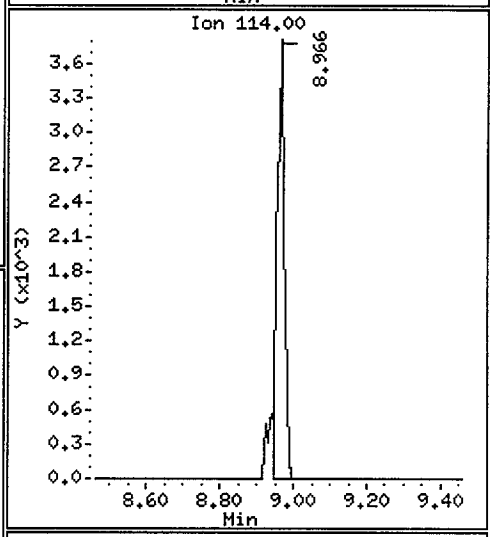


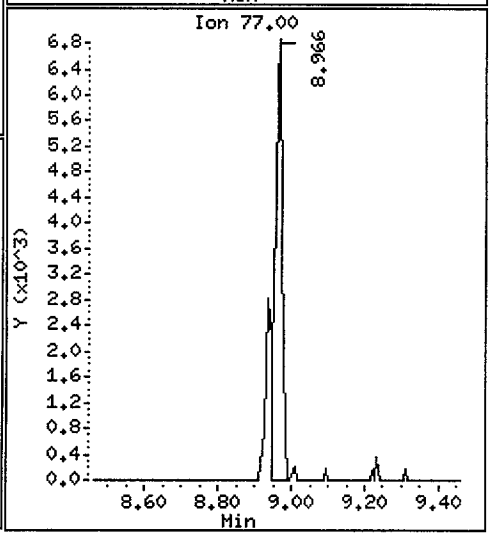












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

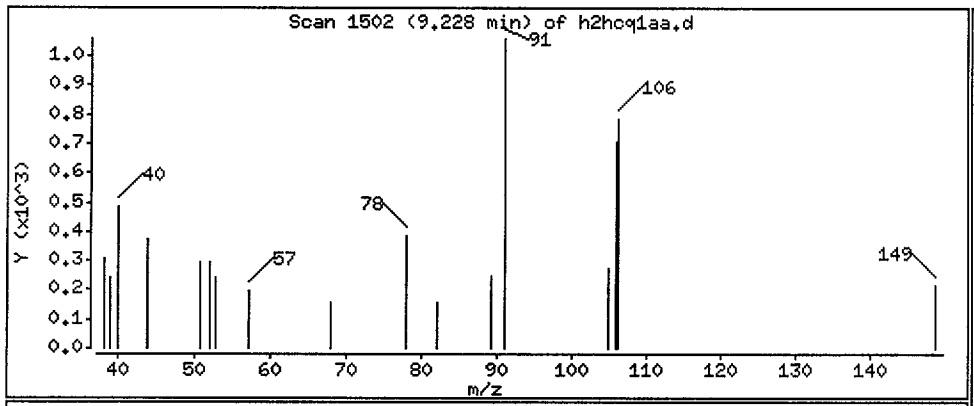
Operator: 22980

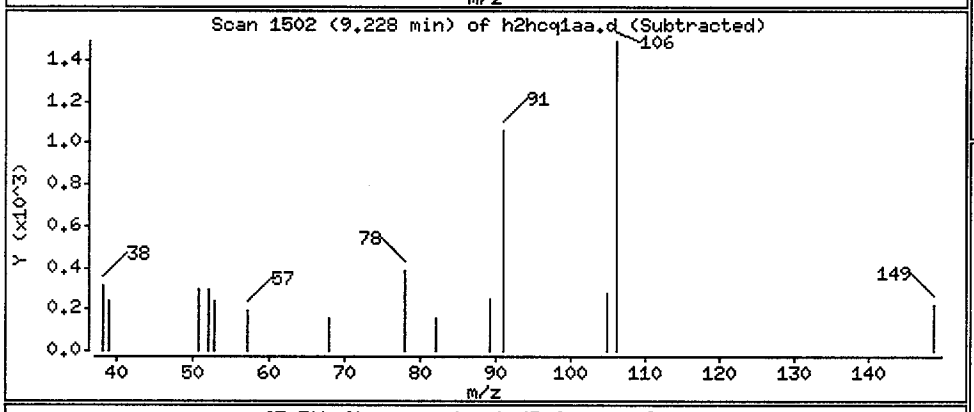
Column phase: J+W 624

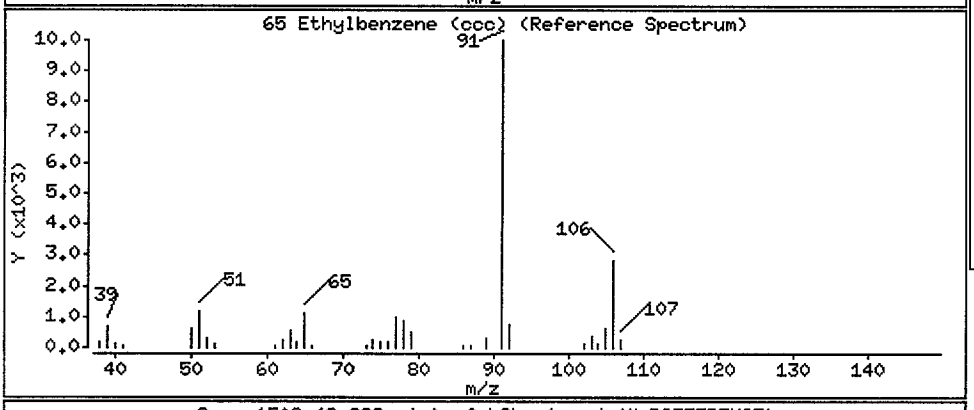
Column diameter: 0.18

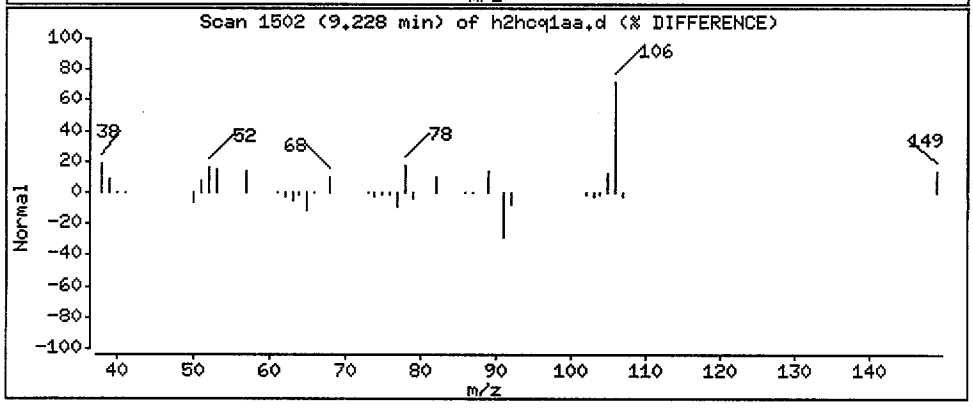
65 Ethylbenzene (ccc)

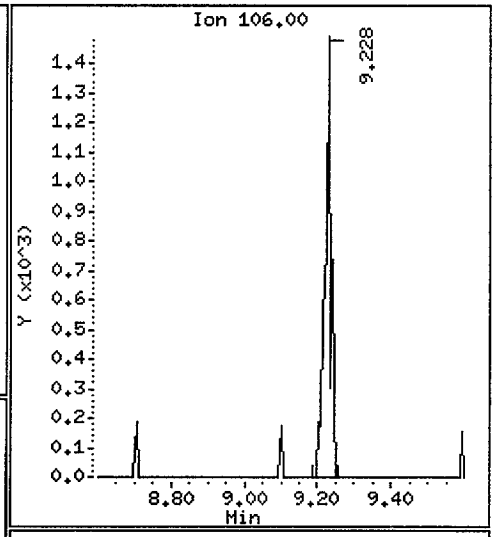
Concentration: 0.0011625 ug

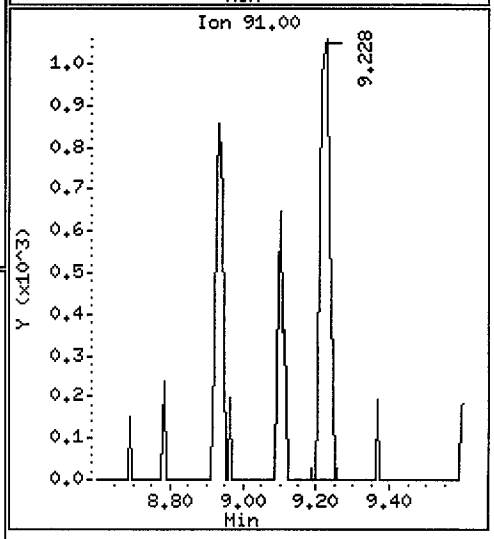












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

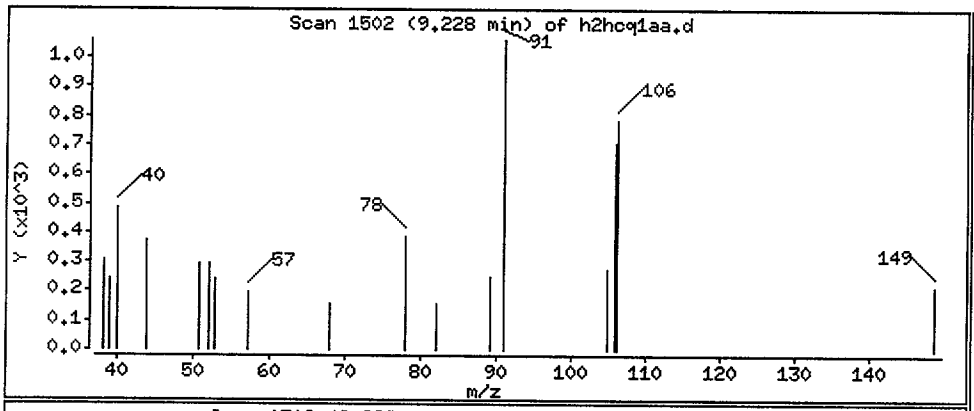
Operator: 22980

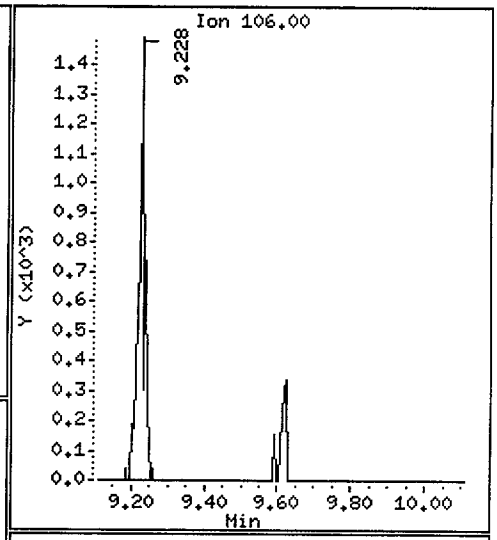
Column phase: J+W 624

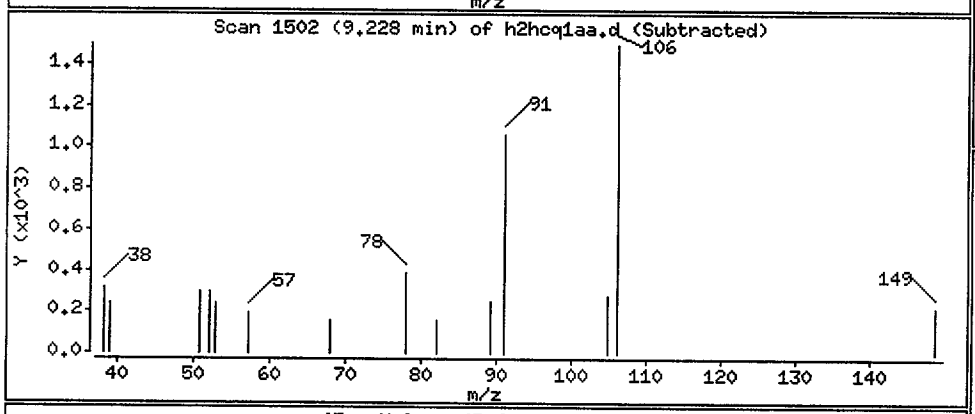
Column diameter: 0.18

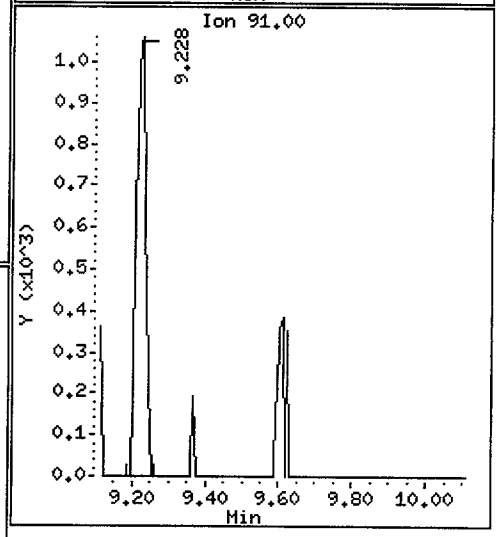
67 o-Xylene

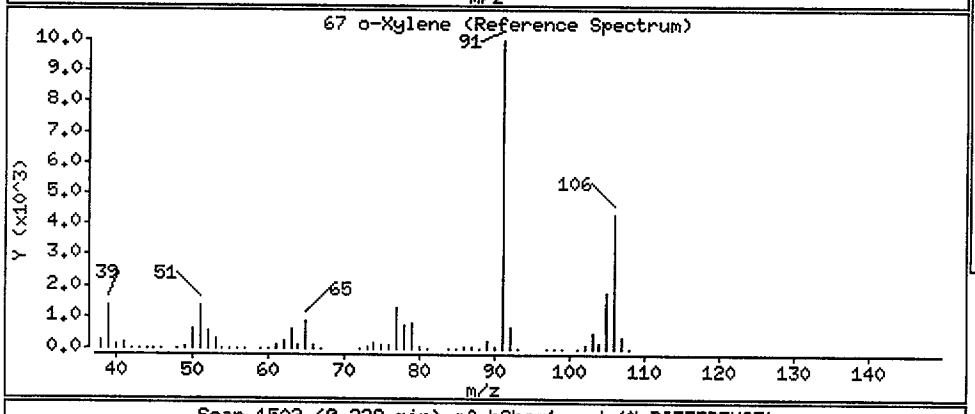
Concentration: 0.0010888 ug

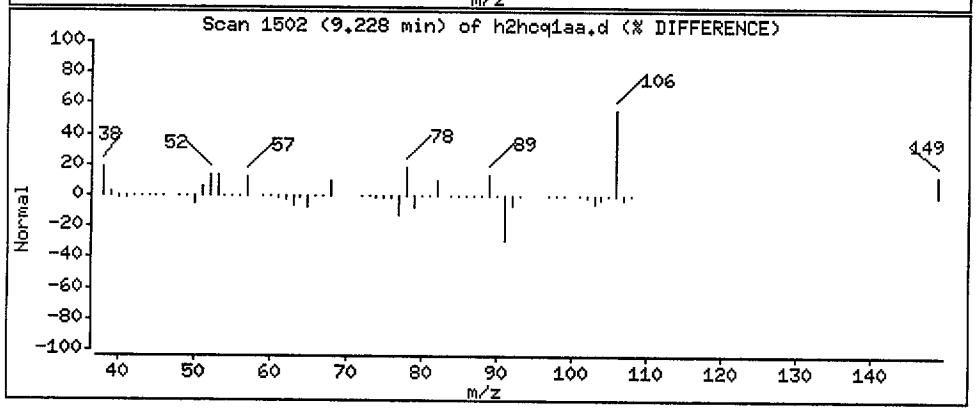












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

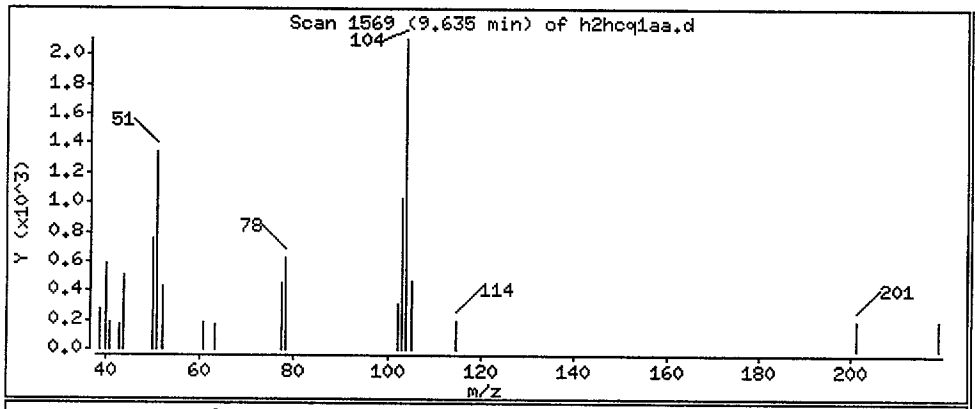
Operator: 22980

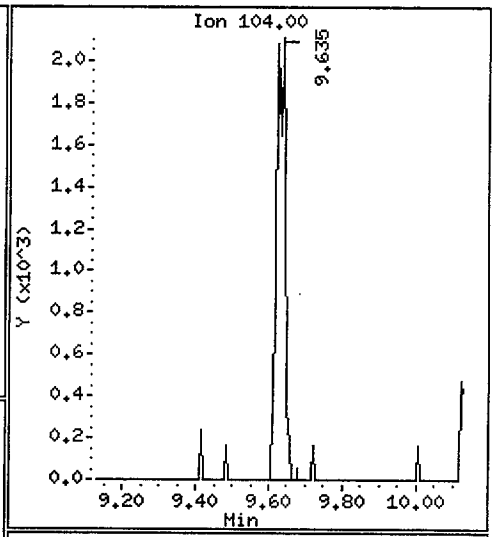
Column phase: J+W 624

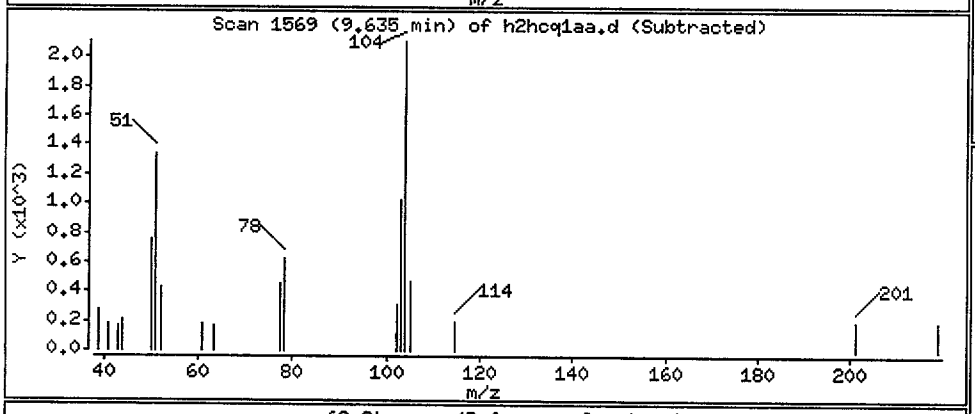
Column diameter: 0.18

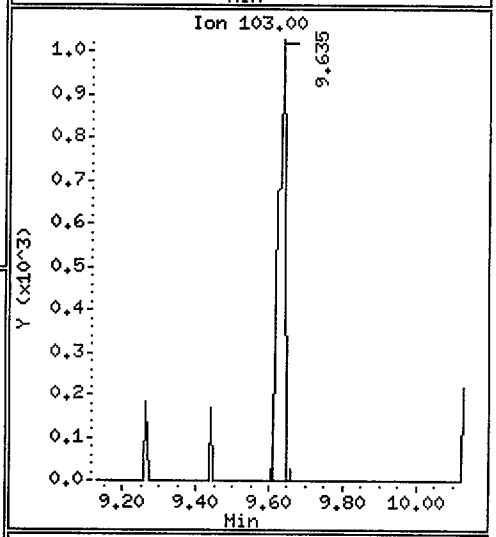
68 Styrene

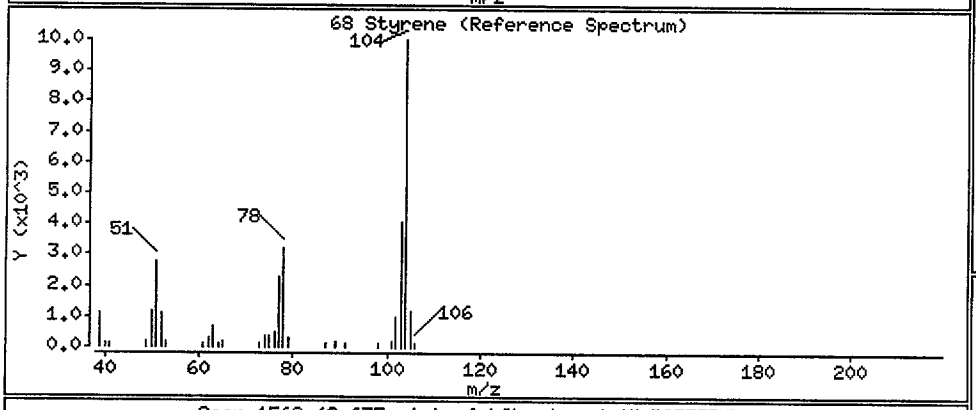
Concentration: 0.0016075 ug

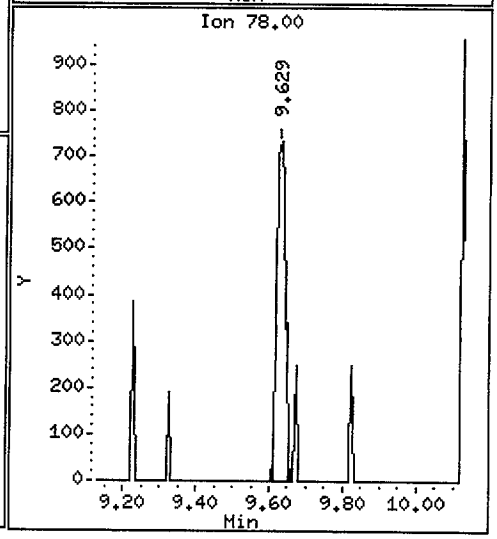


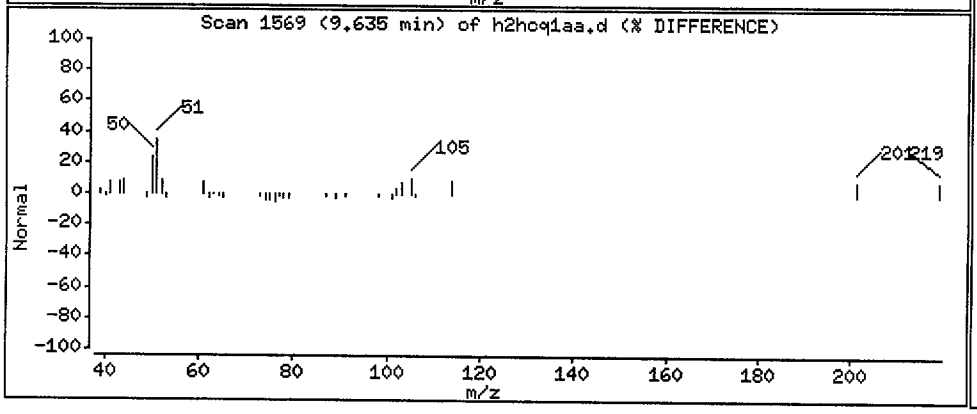












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

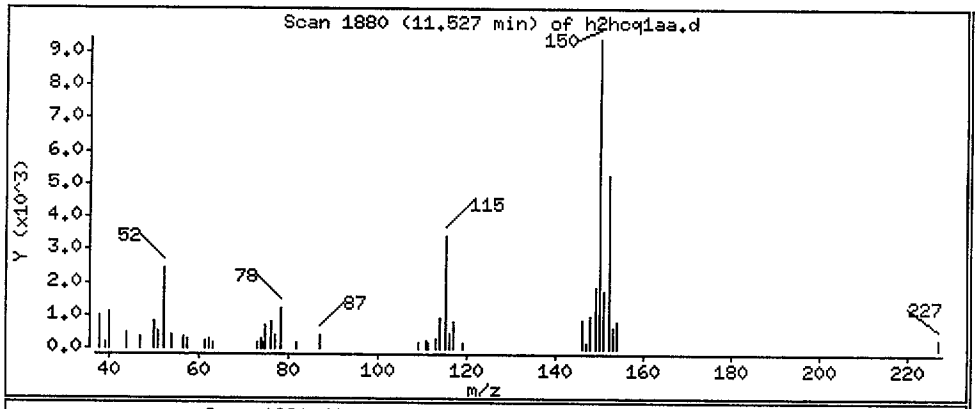
Operator: 22980

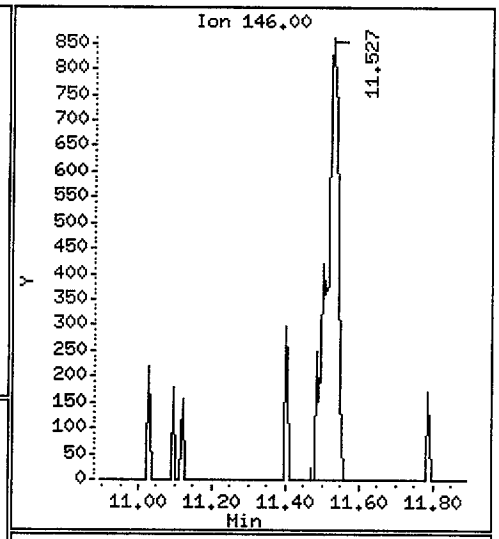
Column phase: J+W 624

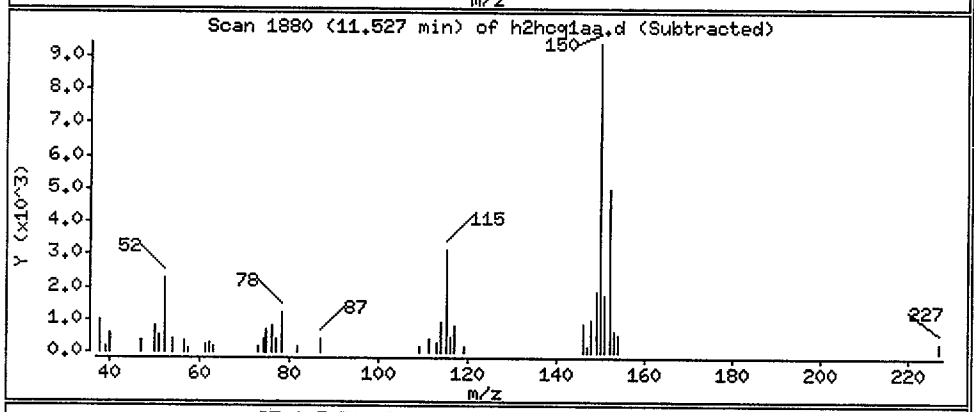
Column diameter: 0.18

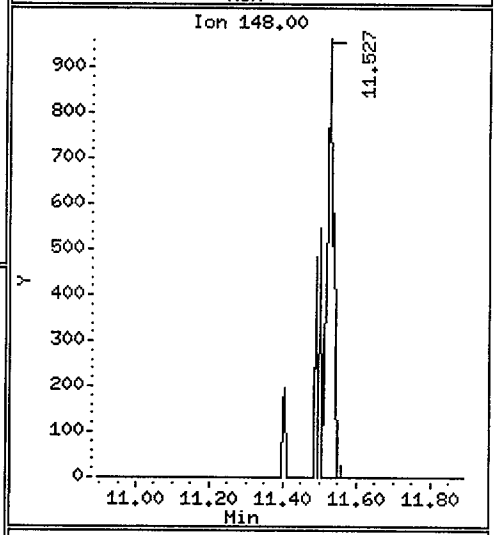
83 1,3-Dichlorobenzene

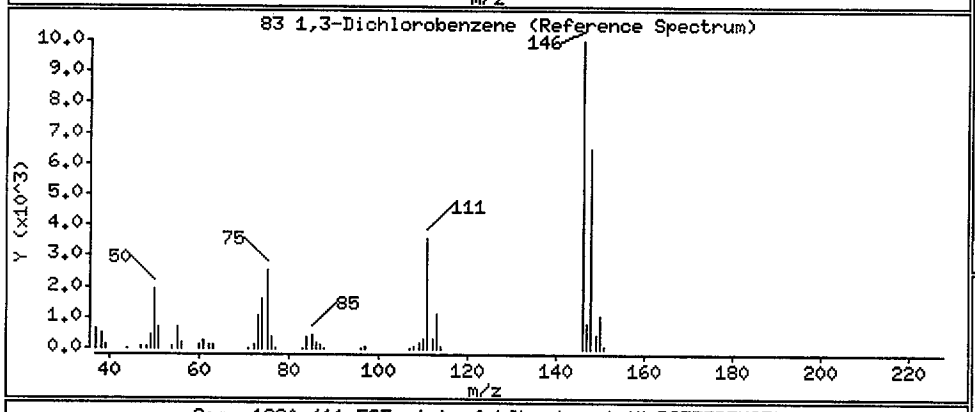
Concentration: 0.0012609 ug

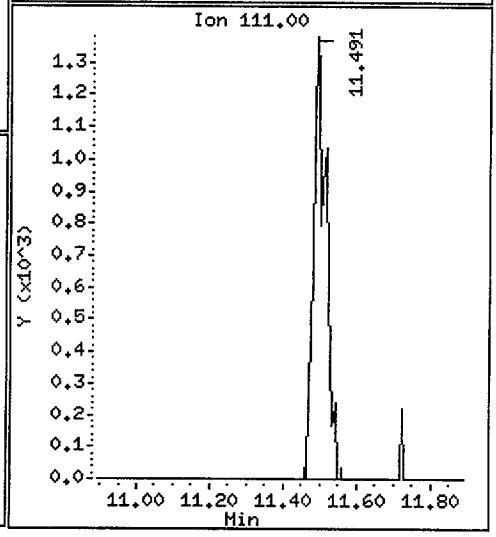


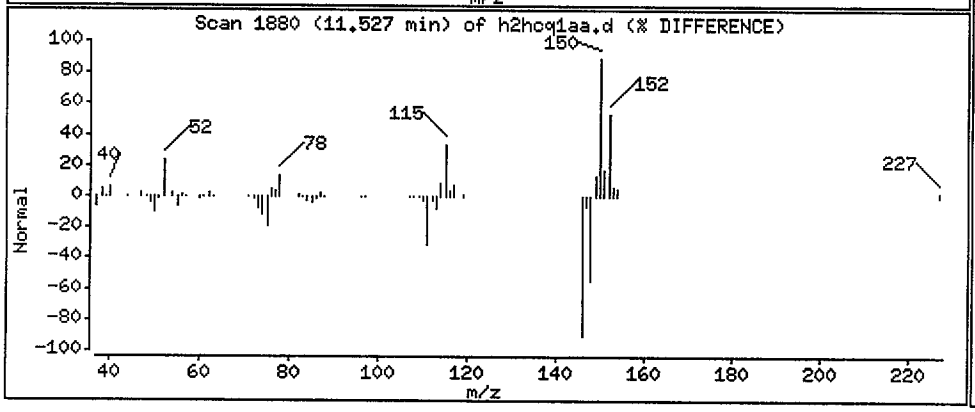












Data File: /chem/gcms/mz.i/Z040706.b/h2hcq1aa.d

Date : 07-APR-2006 14:46

Client ID: G-3096-R3-VOST PAIR

Instrument: mz.i

Sample Info: H2HCQ1AA,1,0,,

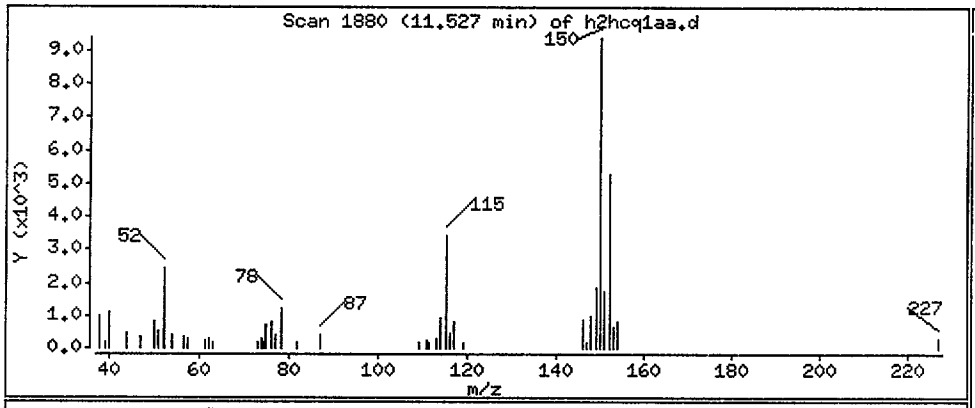
Operator: 22980

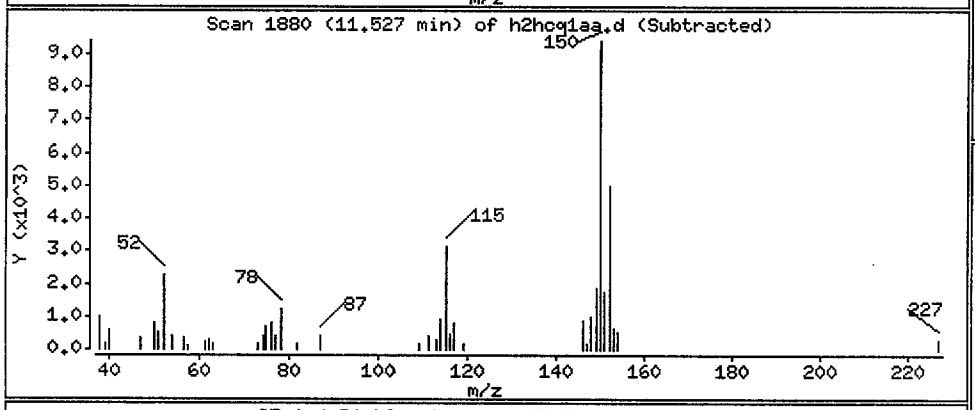
Column phase: J+W 624

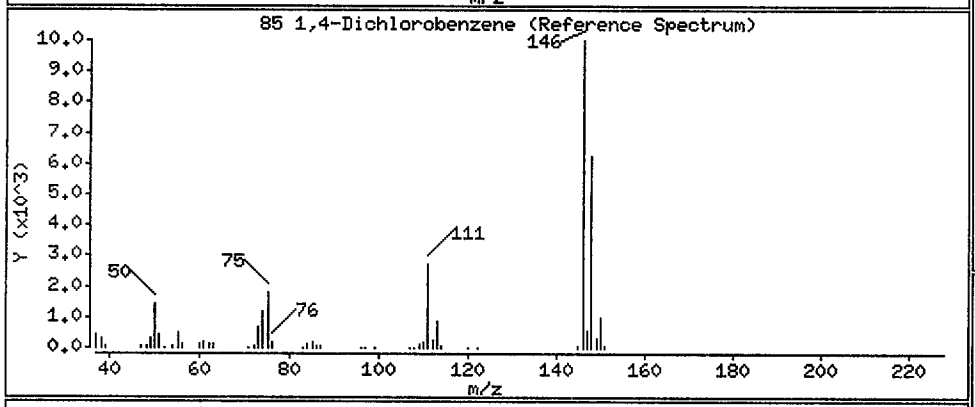
Column diameter: 0.18

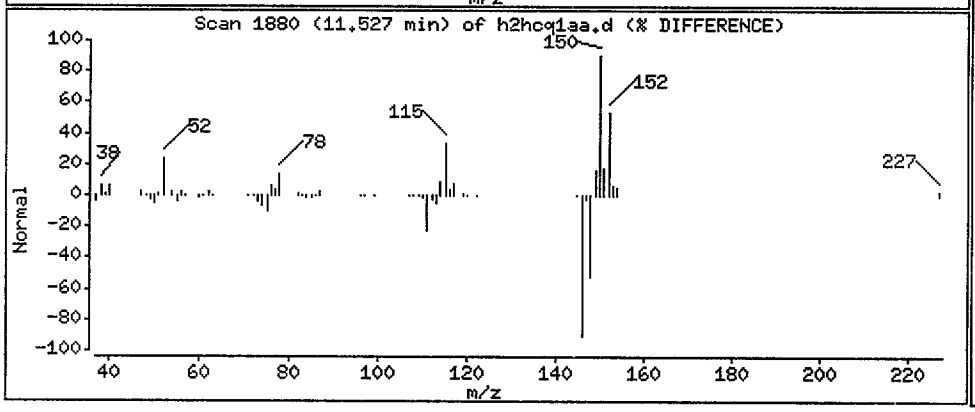
85 1,4-Dichlorobenzene

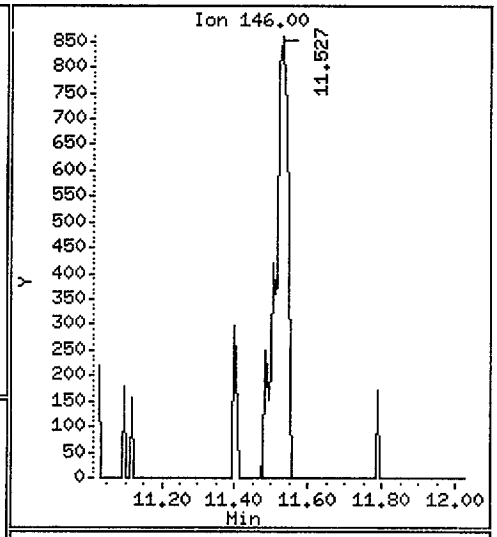
Concentration: 0.0013556 ug

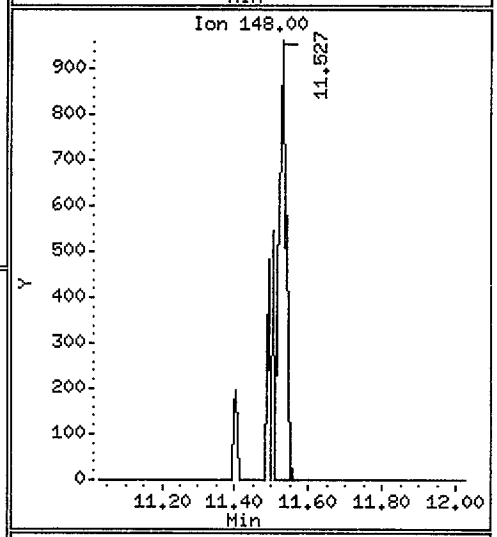


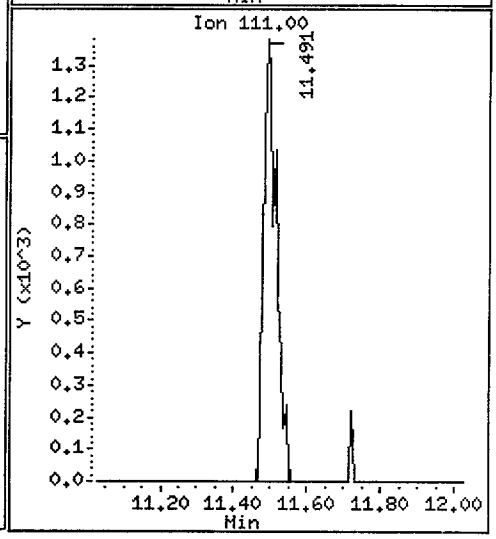












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Report Date: 14-Apr-2006 17:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcq1aa.d
Lab Smp Id: H2HCQ1AA Client Smp ID: G-3096-R3-VOST PAIR
Inj Date : 07-APR-2006 14:46
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCQ1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**5.9 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.11 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.56 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.2 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.12 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-031 **Work Order #:** H2HCR1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Lab Smp Id: H2HCR1AA Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 19:22
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.668	5.667	(1.000)	970066	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	175995	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	213254	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.230	5.229	(0.923)	149137	11.0953	11.095
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	169279	10.8904	10.890
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	783641	10.1338	10.134
$ 7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	202900	9.43427	9.4343
15 Bromomethane	94	1.416	1.414	(0.250)	965	0.92757	0.92756
22 Acetone	43	2.128	2.126	(0.375)	13594	5.89452	5.8945
23 *Iodomethane	142	2.207	2.181	(0.389)	1023	0.56272	0.56272
27 Methylene Chloride	84	2.505	2.503	(0.442)	20176	1.24366	1.2437
45 1,2-Dichloroethane	62	5.334	5.326	(0.941)	2315	0.11432	0.11432
53 4-Methyl-2-pentanone	43	7.463	7.376	(1.317)	6955	0.82110	0.82110
54 Toluene (ccc)	91	7.524	7.522	(0.843)	11788	0.11770	0.11770

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
55 trans-1,3-Dichloropropene	75	7.457	7.784	(0.835)	324	~~0.64558~~	~~0.64558~~
69 Bromoform (spcc)	173	10.122	9.779	(1.134)	759	~~1.07151~~	~~1.0715~~

MTS 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcr1aa.d
Lab Smp Id: H2HCR1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	970066	-10.07
2 Chlorobenzene-d5	188899	94450	377798	175995	-6.83
3 1,4 Dichlorobenze	220143	110072	440286	213254	-3.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.03
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.04

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 05-Apr-2006 19:40

STL Knoxville

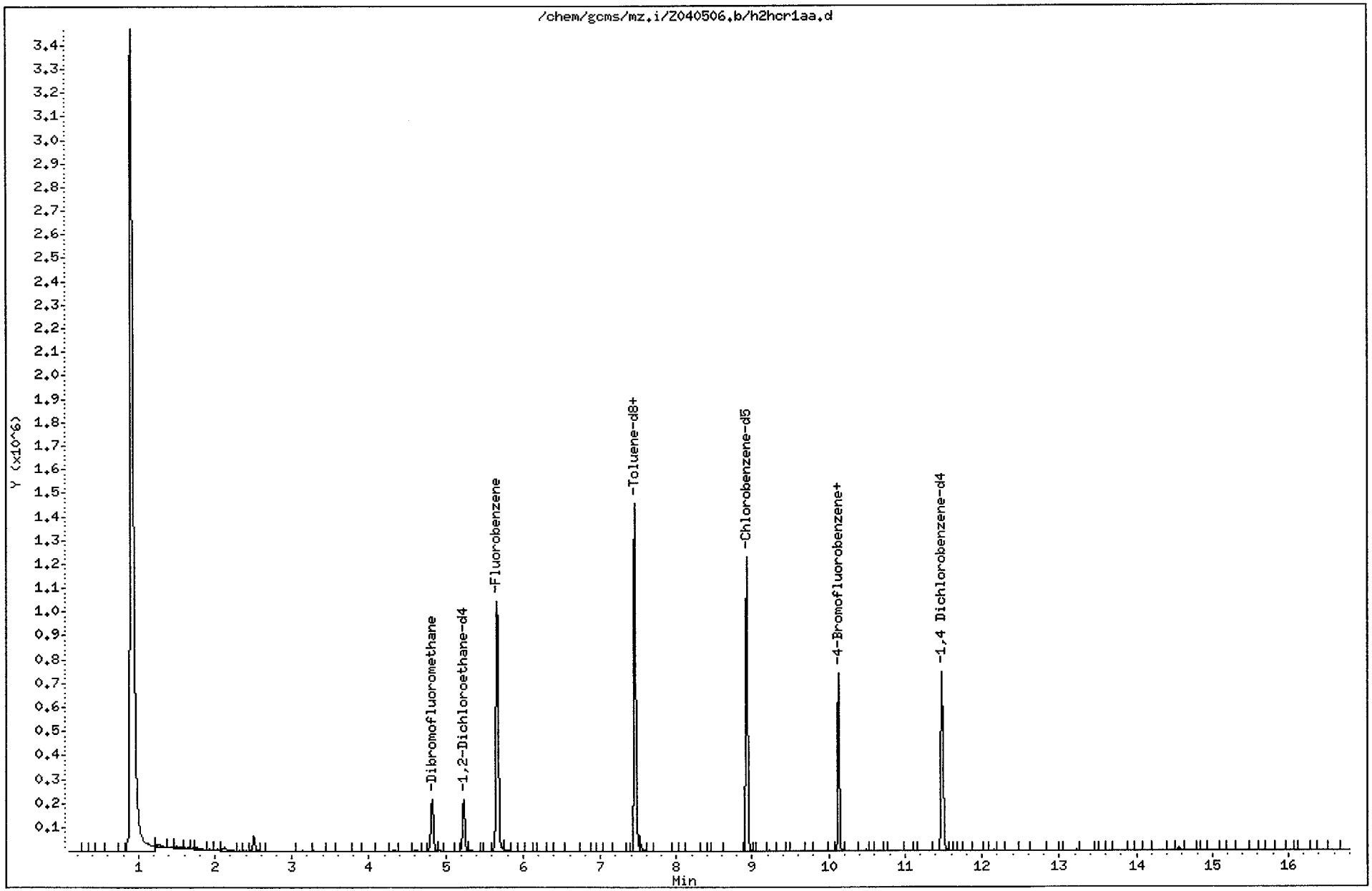
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HCR1AA
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.095	110.95	71-127
$ 4 Dibromofluorometha	10.000	10.890	108.90	79-120
$ 6 Toluene-d8	10.000	10.134	101.34	80-120
$ 7 4-Bromofluorobenze	10.000	9.4343	94.34	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Date : 05-APR-2006 19:22
Client ID: G-3097-R3-VOST COND
Sample Info: H2HCR1AA,1,0,,
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

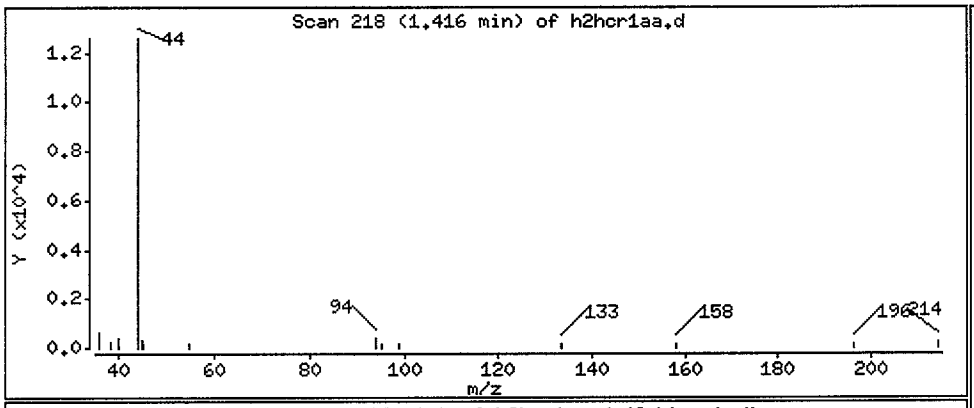
Operator: 063605

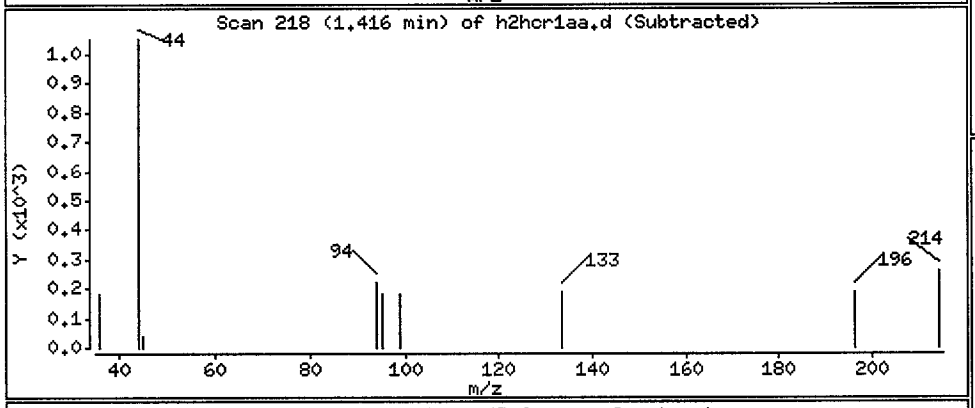
Column phase: J+W 624

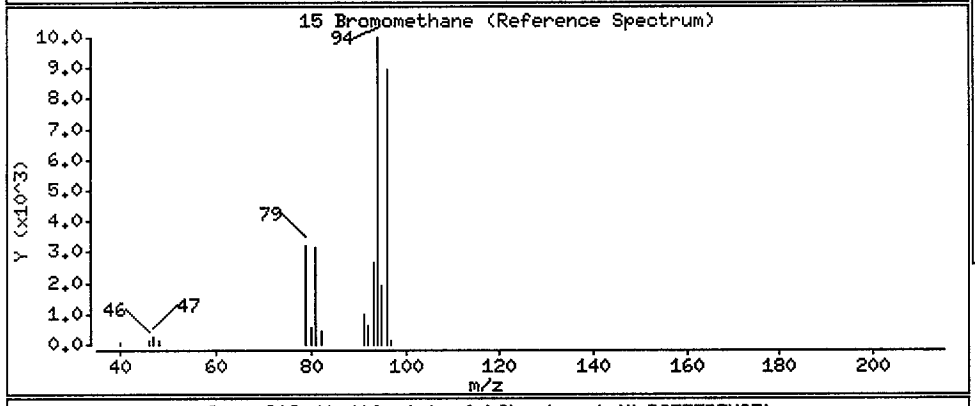
Column diameter: 0.18

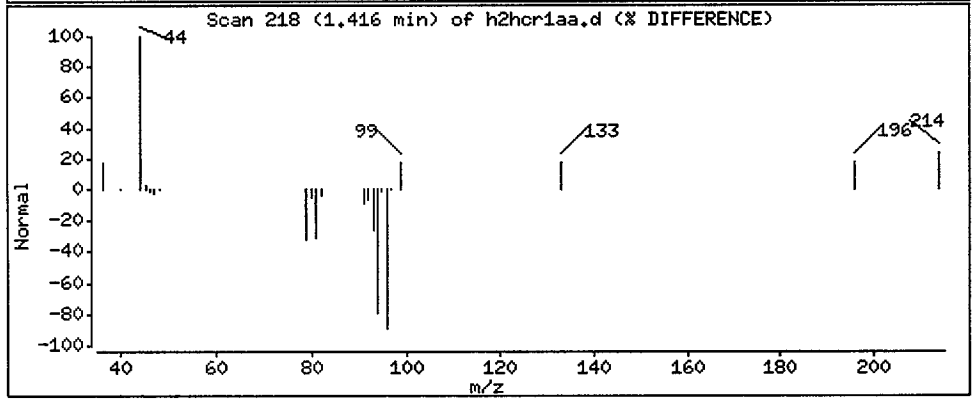
15 Bromomethane

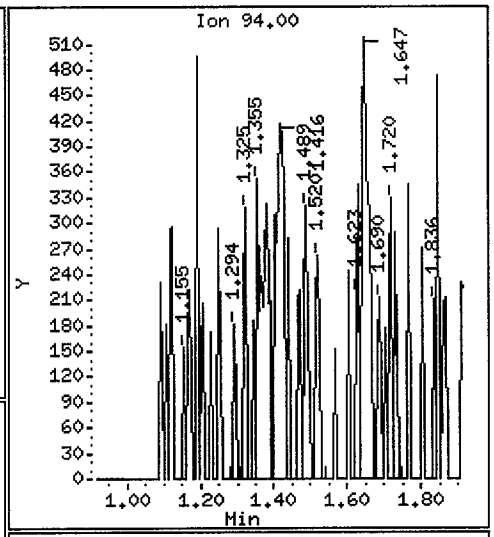
Concentration: 0.92756 ug/L

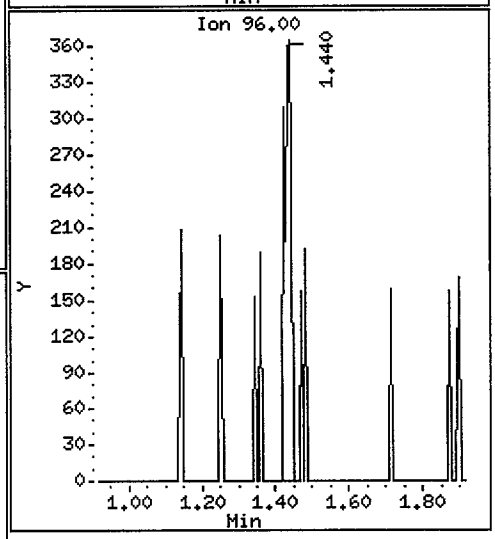












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

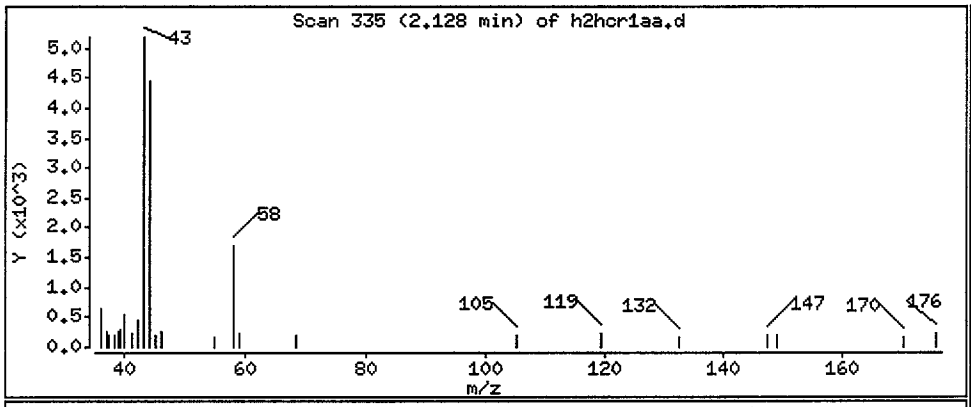
Operator: 063605

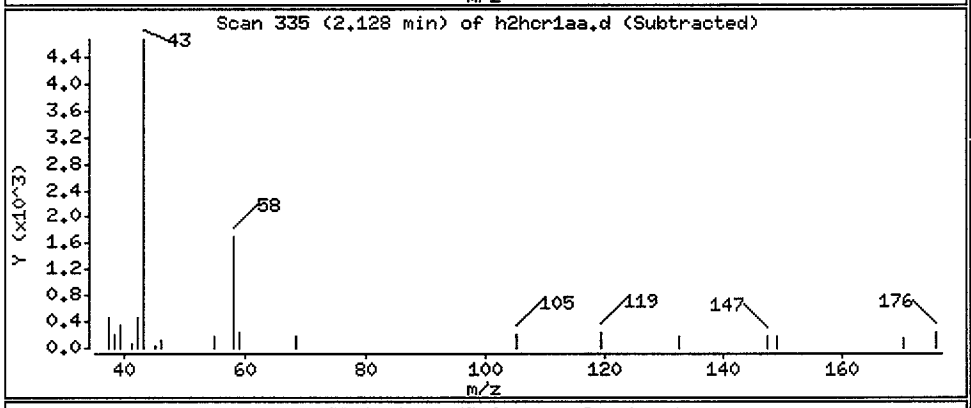
Column phase: J+W 624

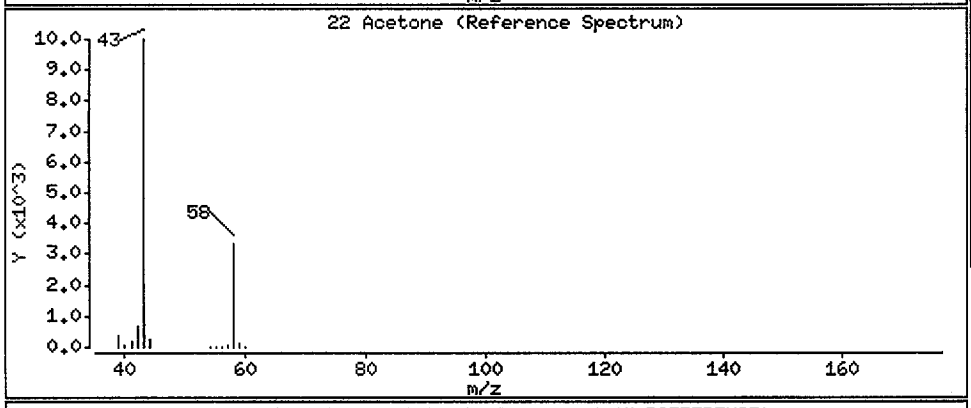
Column diameter: 0.18

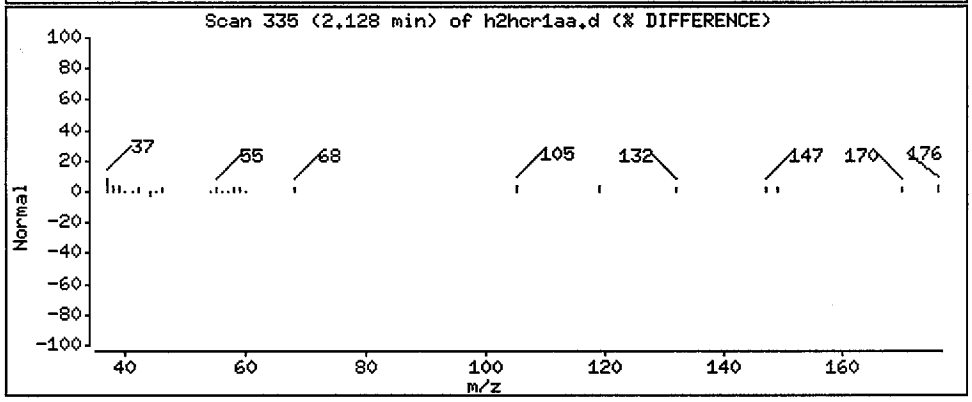
22 Acetone

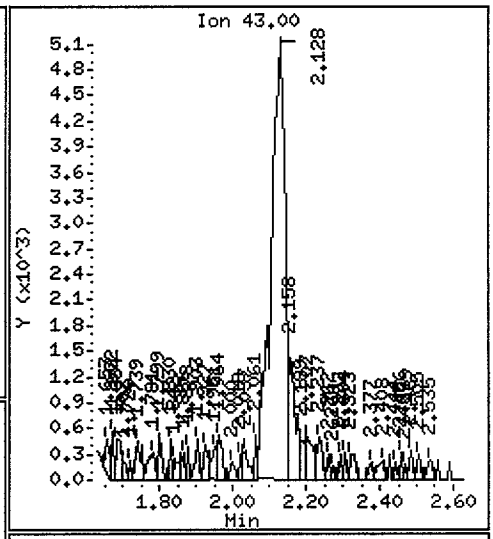
Concentration: 5.8945 ug/L

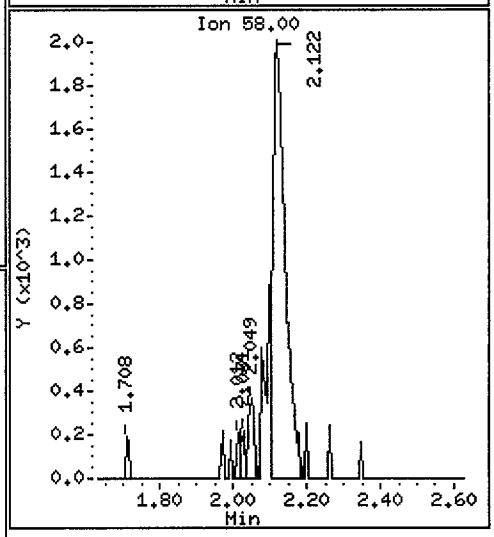












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

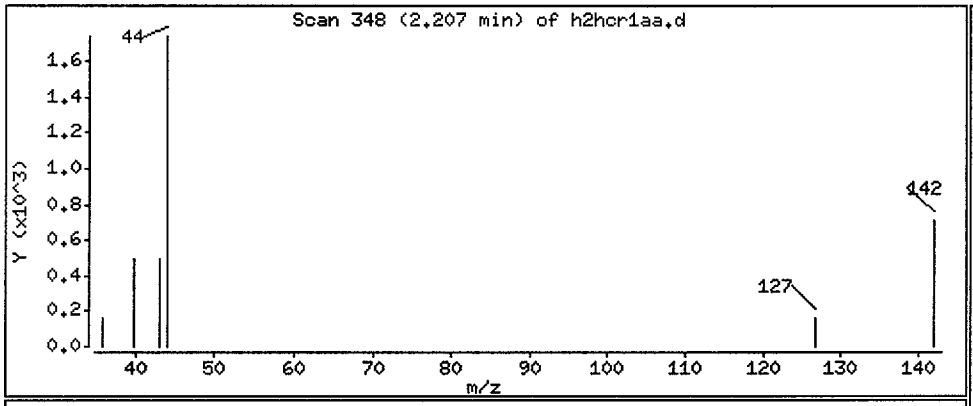
Operator: 063605

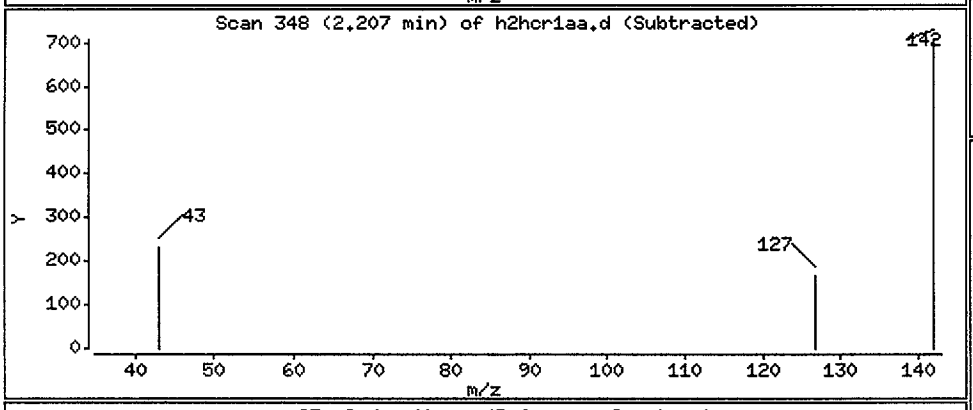
Column phase: J+W 624

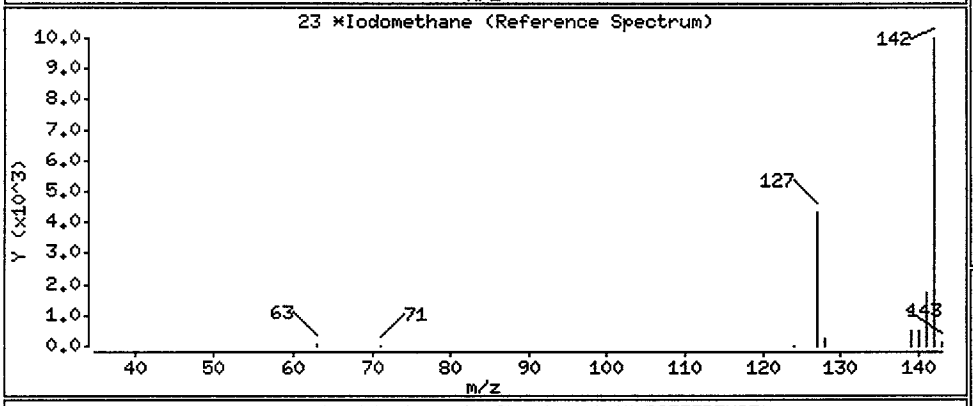
Column diameter: 0.18

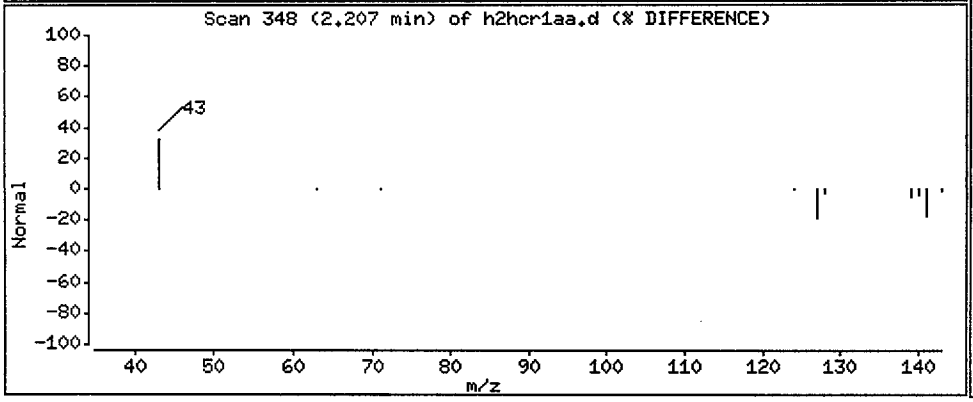
23 *Iodomethane

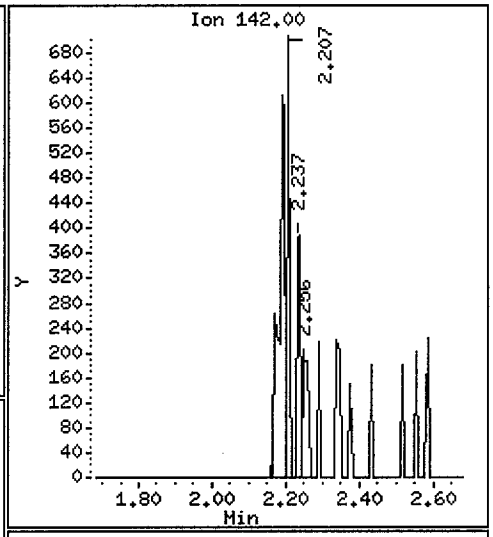
Concentration: 0.56272 ug/L

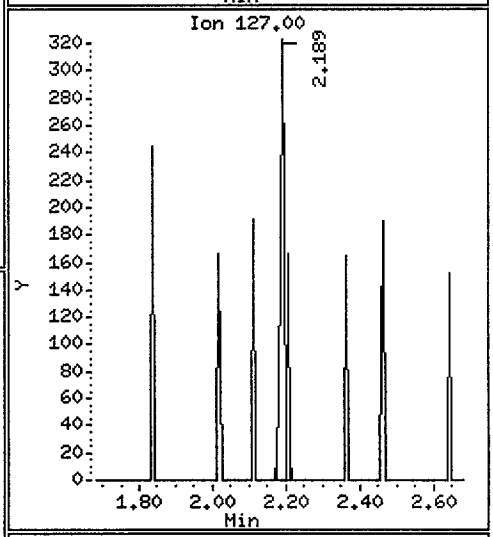


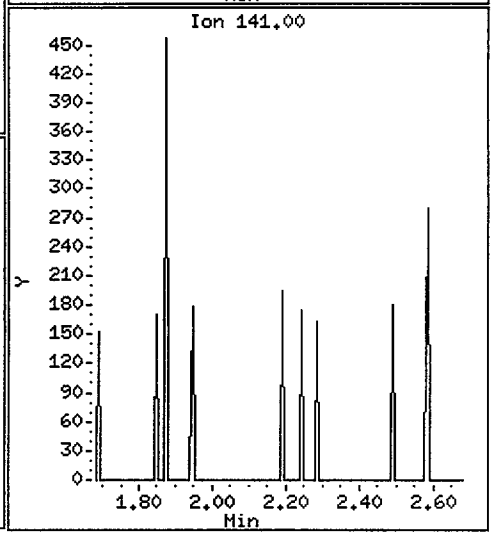












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

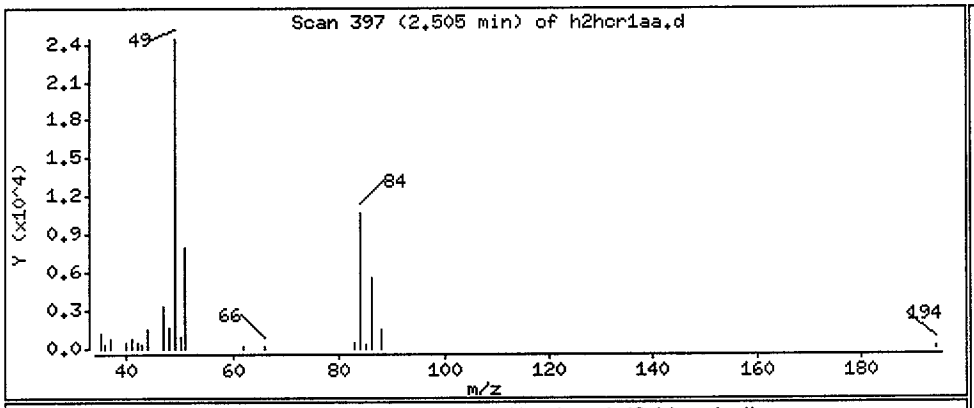
Operator: 063605

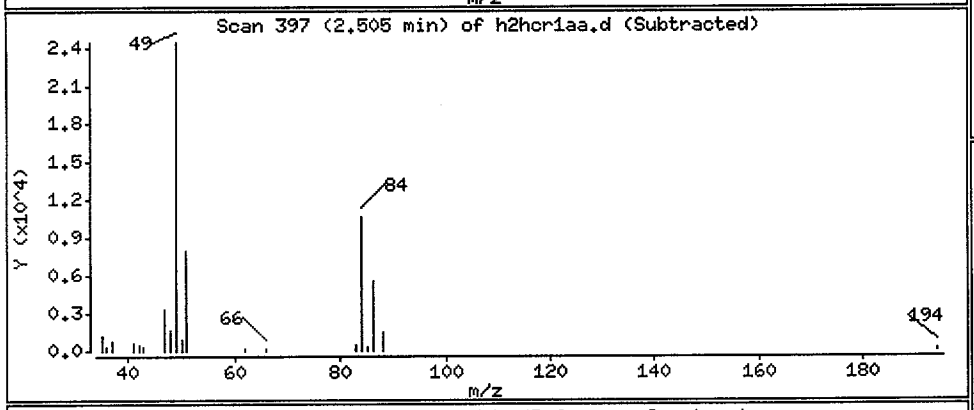
Column phase: J+W 624

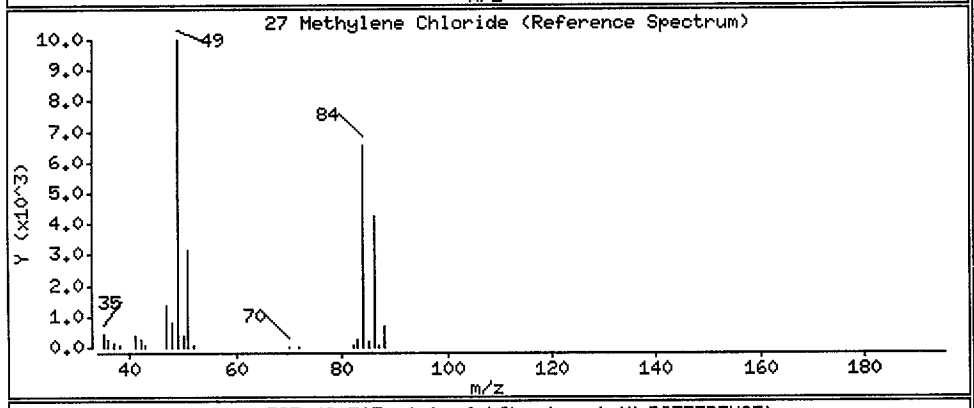
Column diameter: 0.18

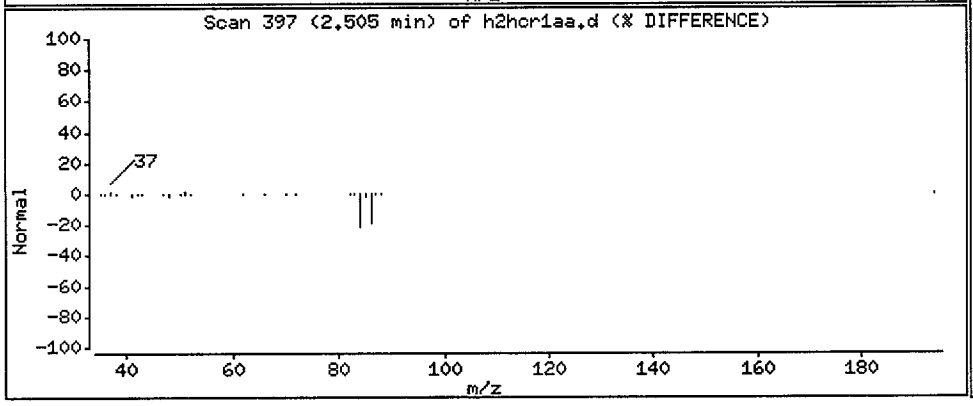
27 Methylene Chloride

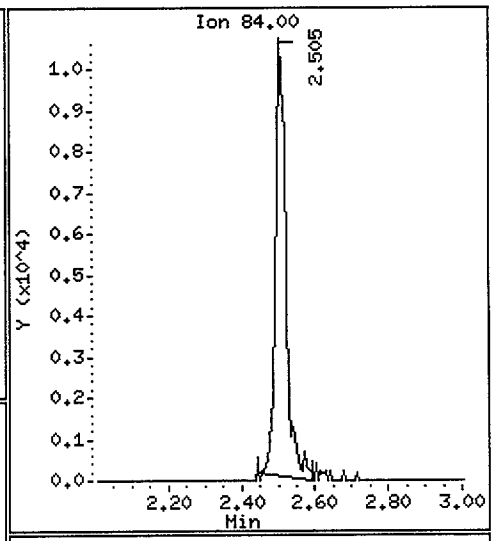
Concentration: 1.2437 ug/L

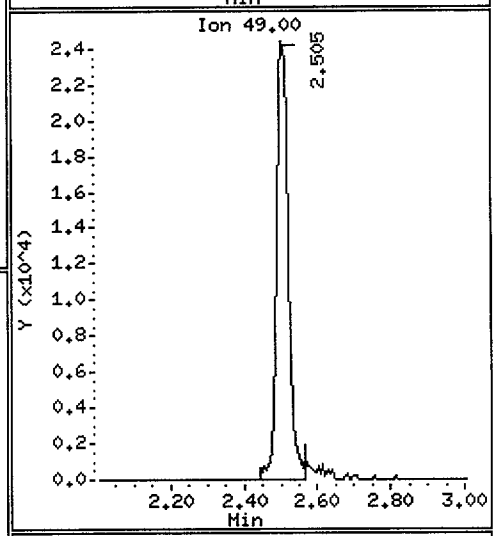


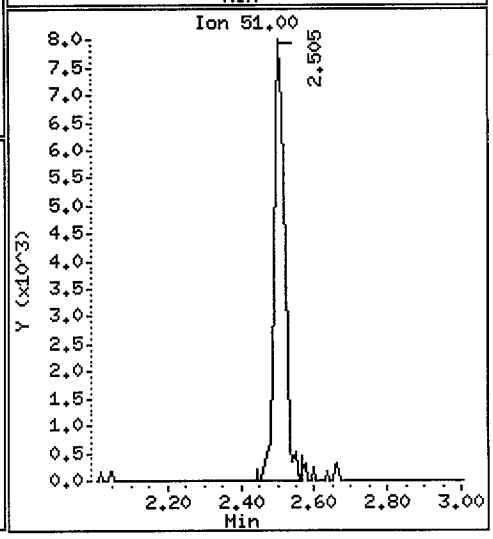












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

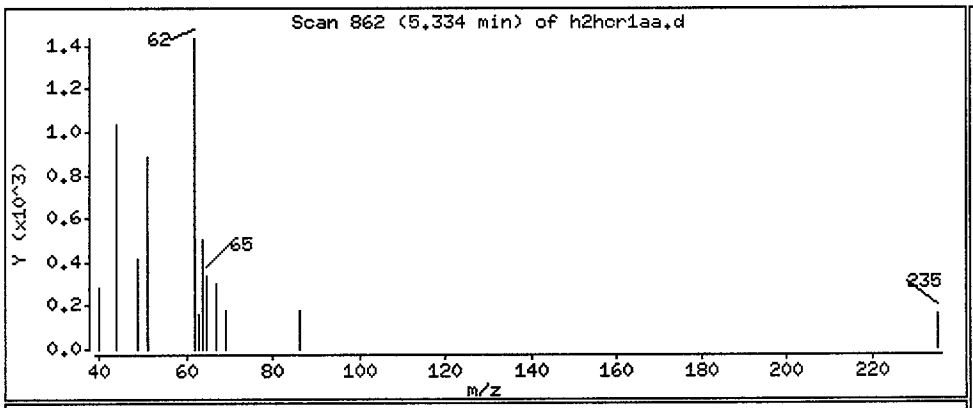
Operator: 063605

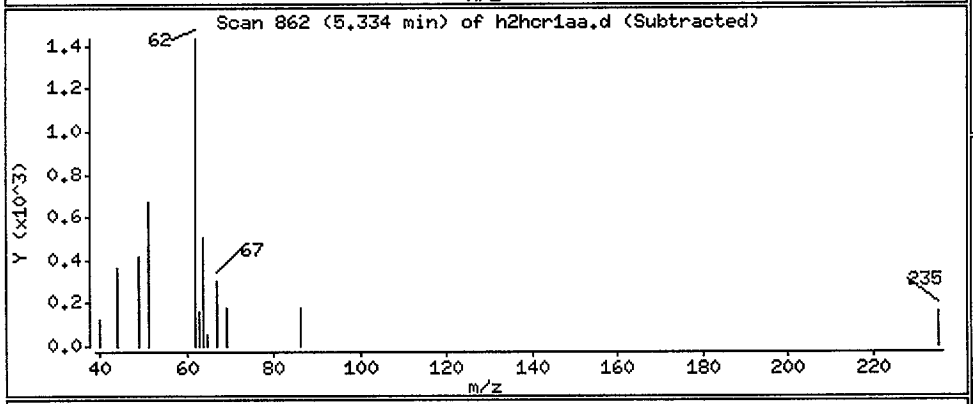
Column phase: J+W 624

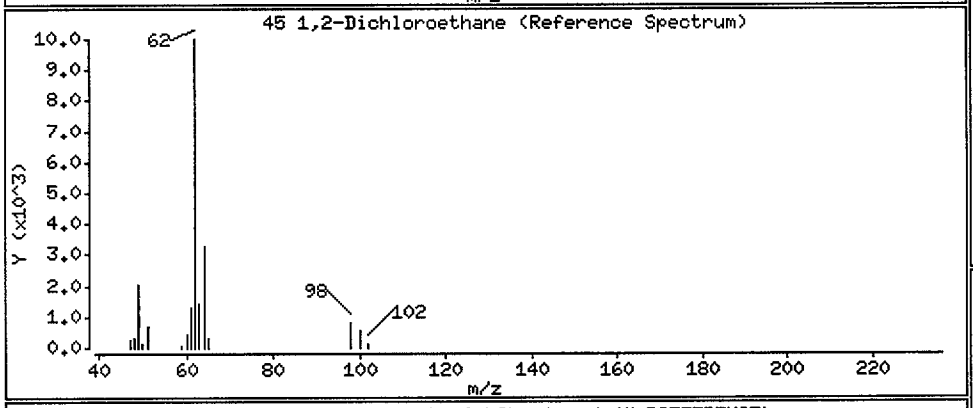
Column diameter: 0.18

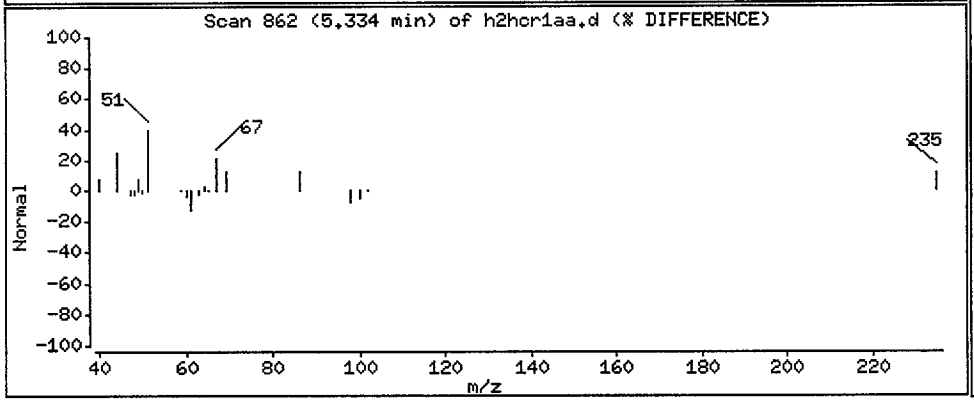
45 1,2-Dichloroethane

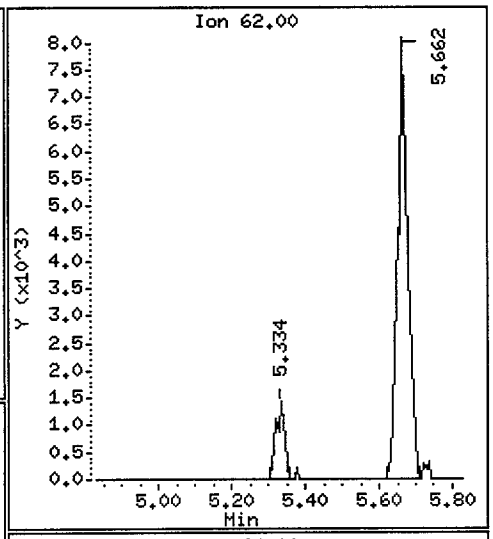
Concentration: 0.11432 ug/L

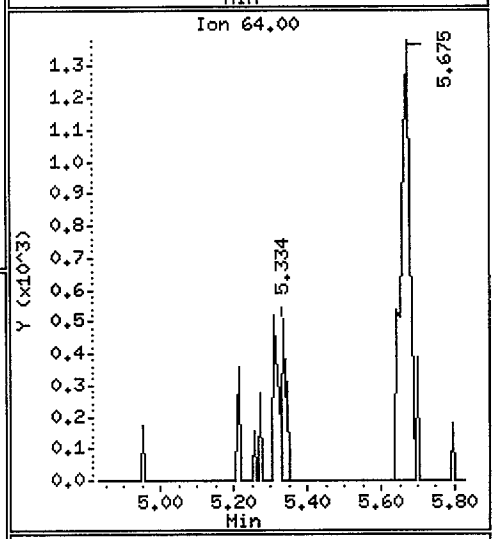


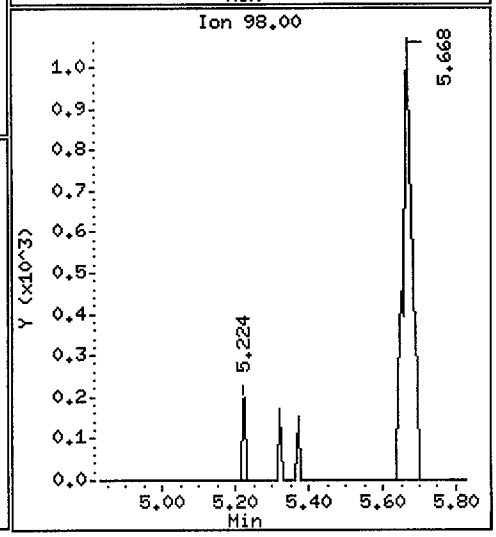












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

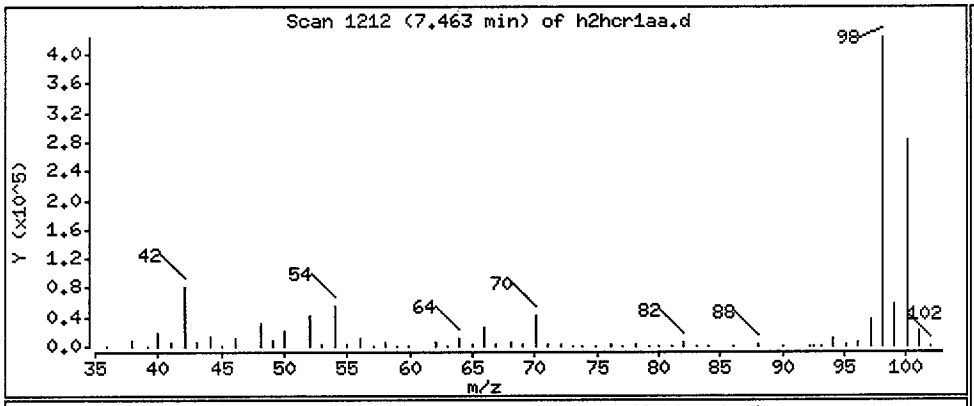
Operator: 063605

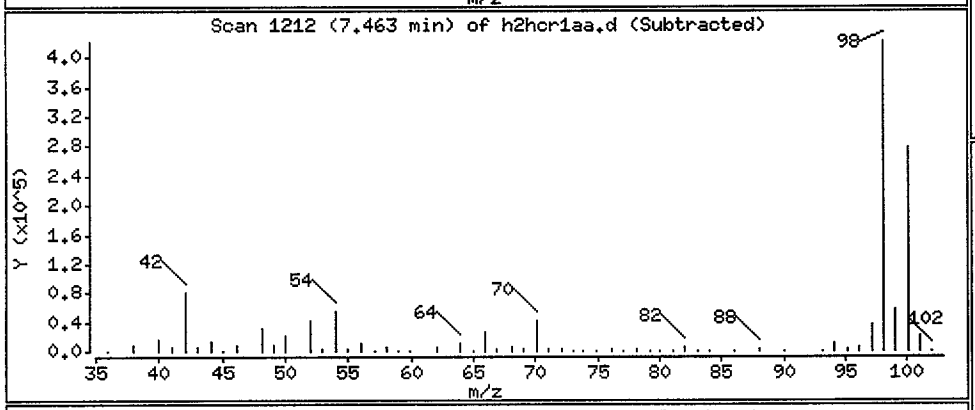
Column phase: J+W 624

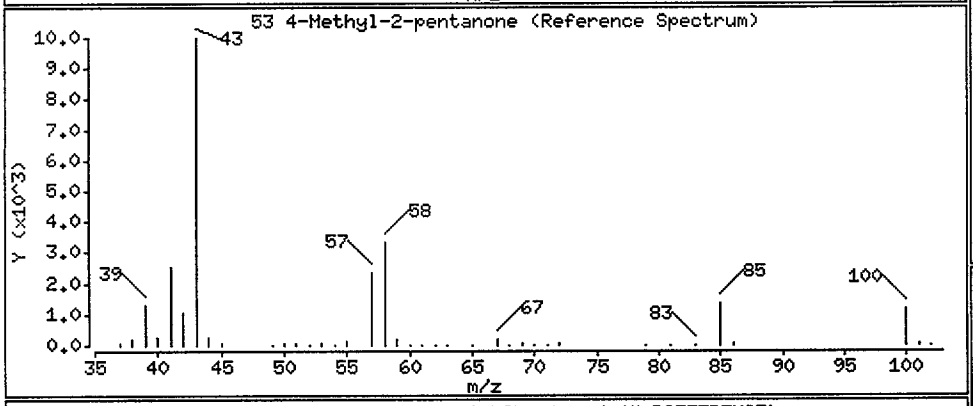
Column diameter: 0.18

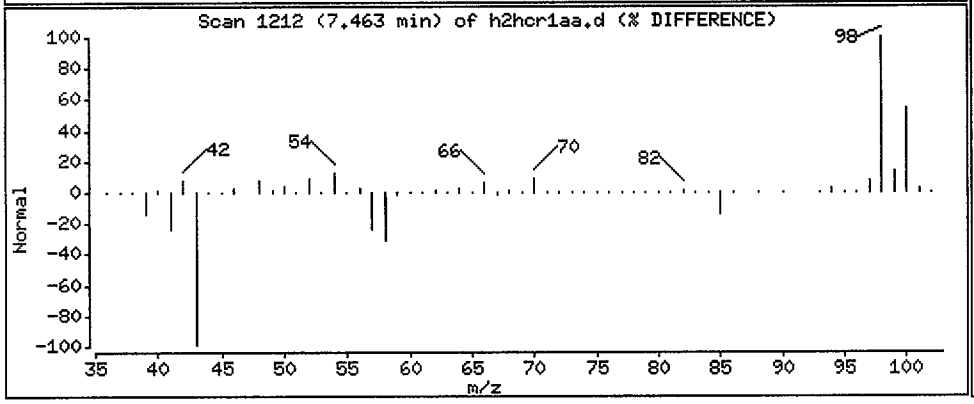
53 4-Methyl-2-pentanone

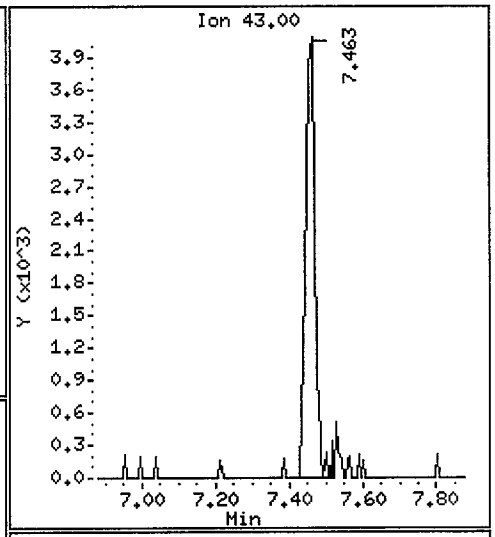
Concentration: 0.82110 ug/L

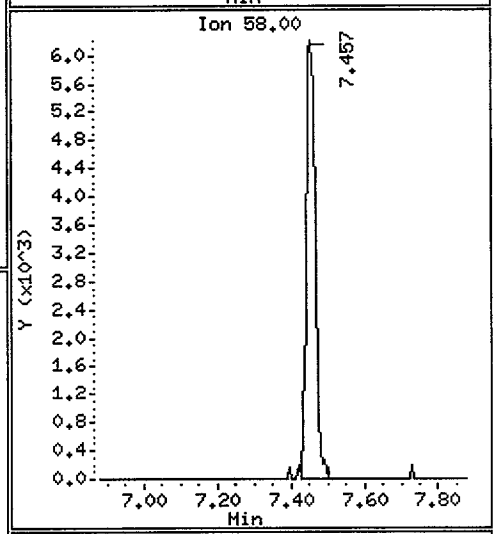


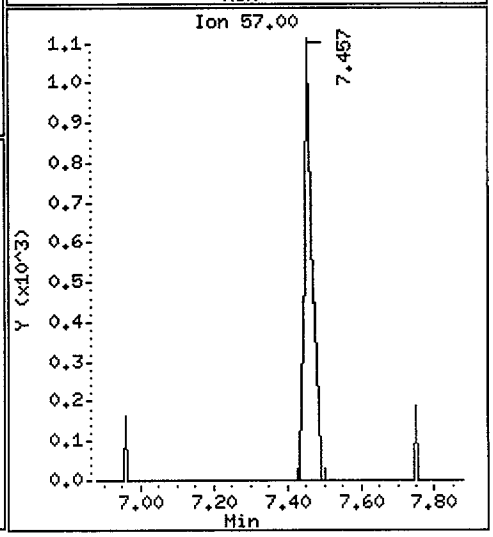












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

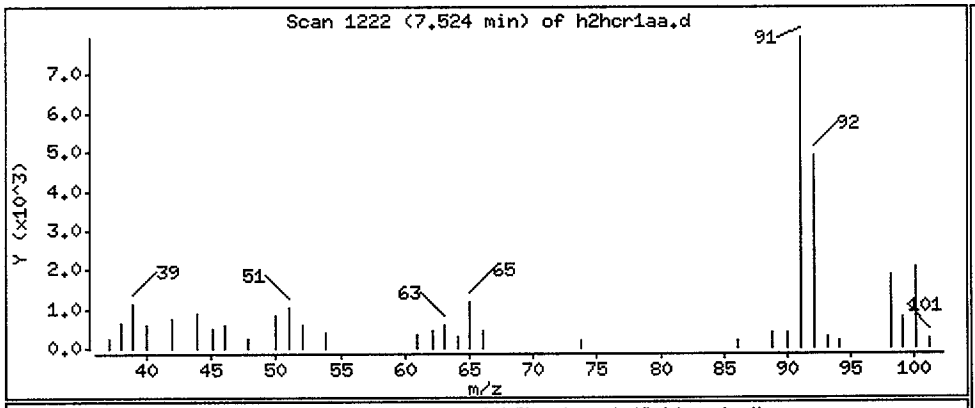
Operator: 063605

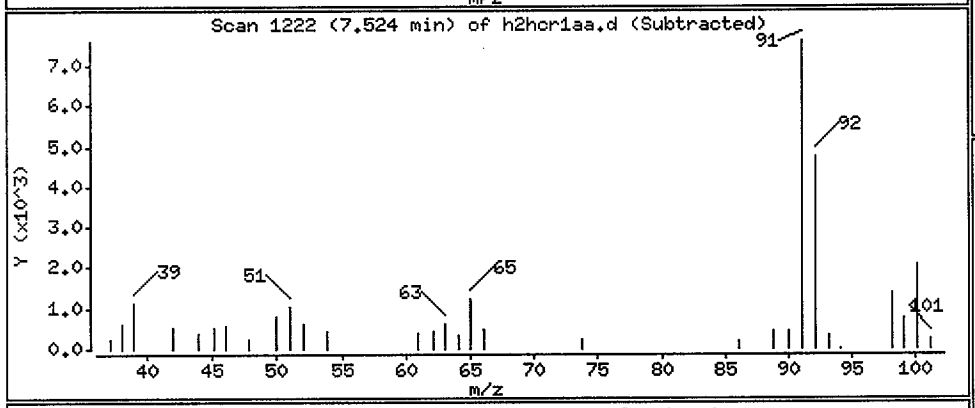
Column phase: J+W 624

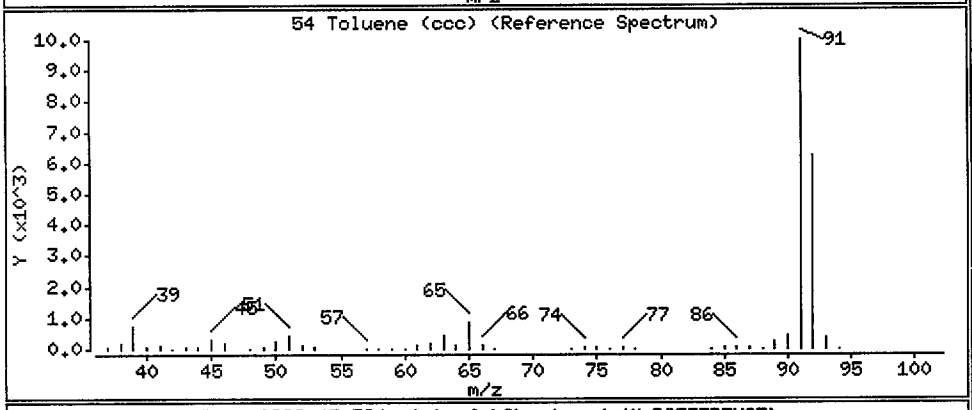
Column diameter: 0.18

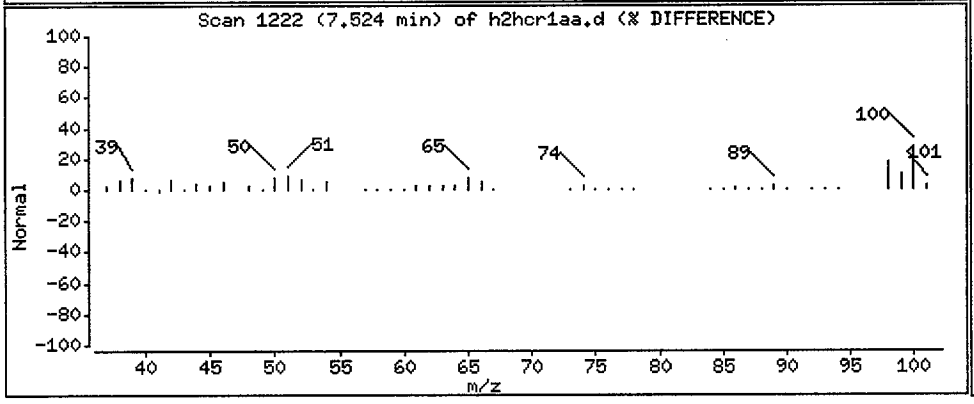
54 Toluene (ccc)

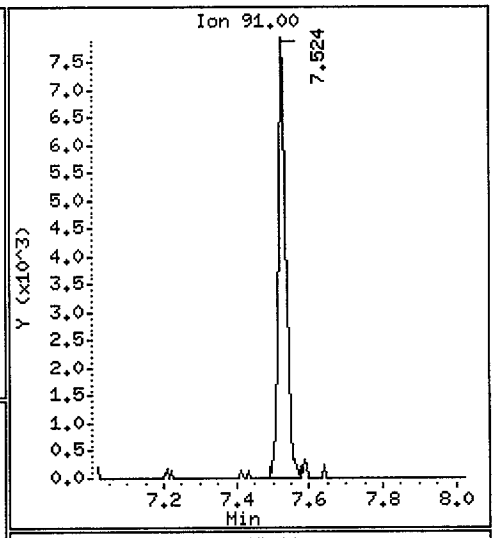
Concentration: 0.11770 ug/L

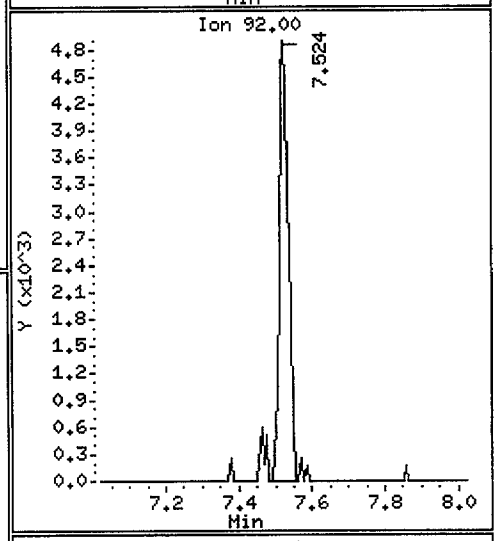


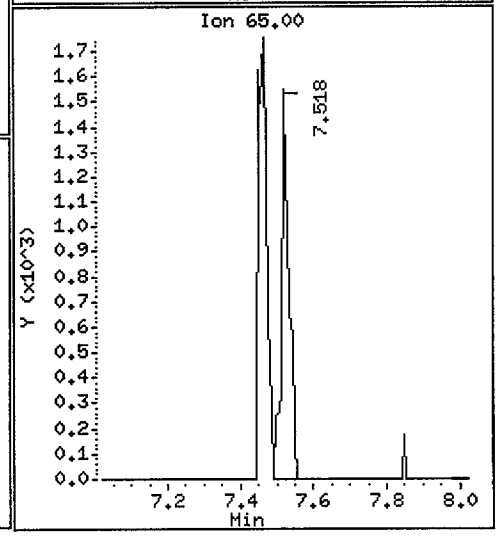












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

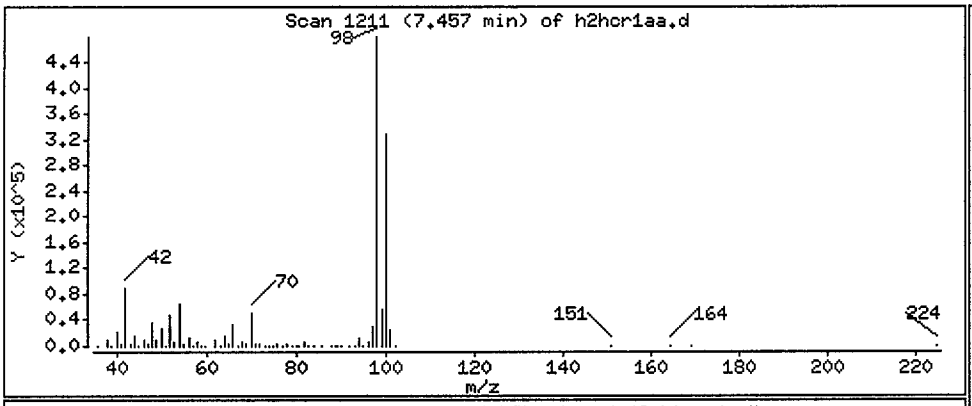
Operator: 063605

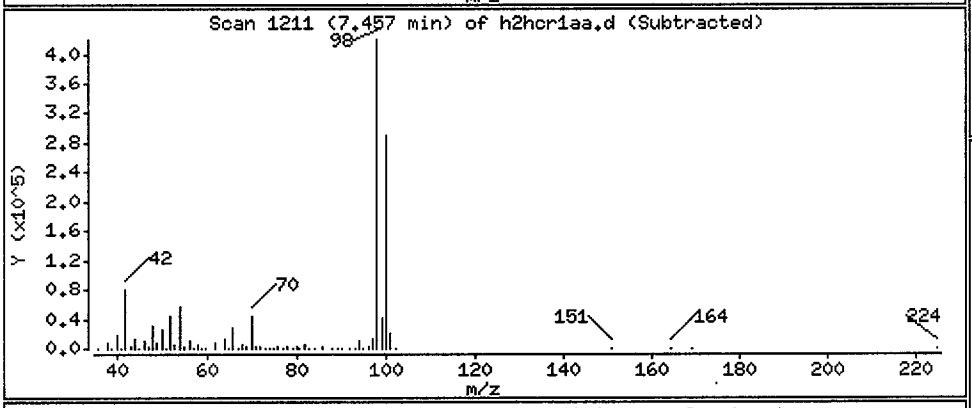
Column phase: J+W 624

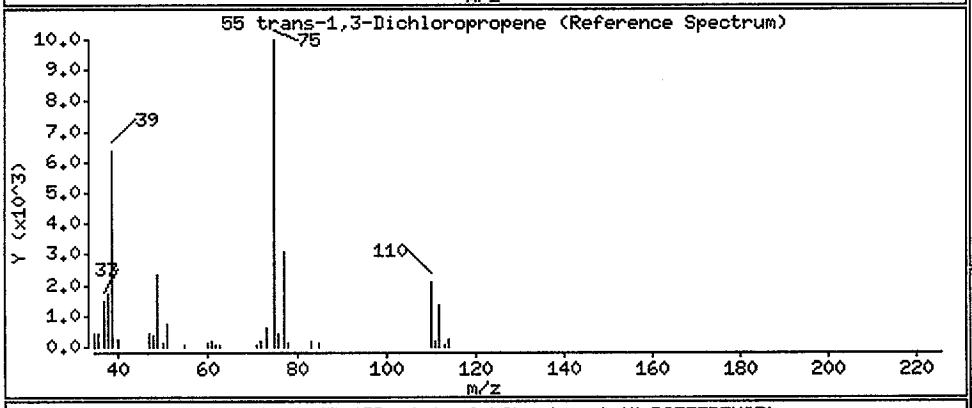
Column diameter: 0.18

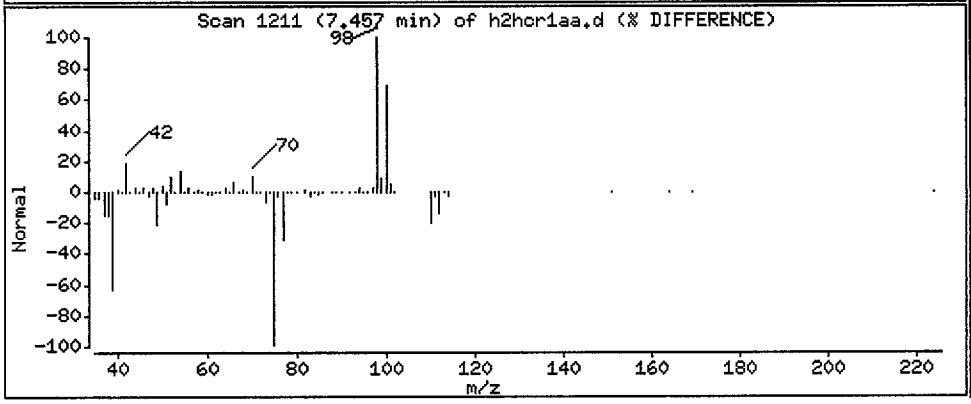
55 trans-1,3-Dichloropropene

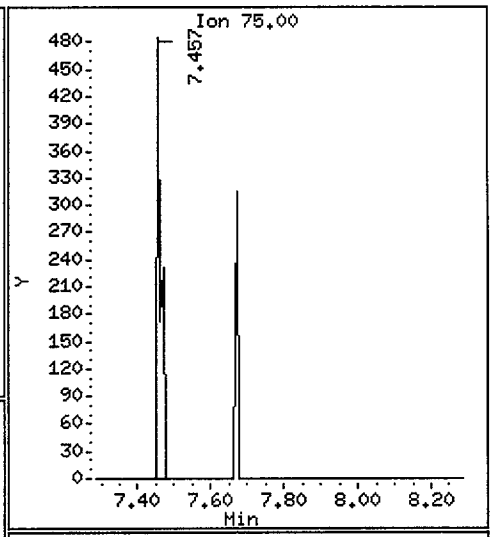
Concentration: 0.64558 ug/L

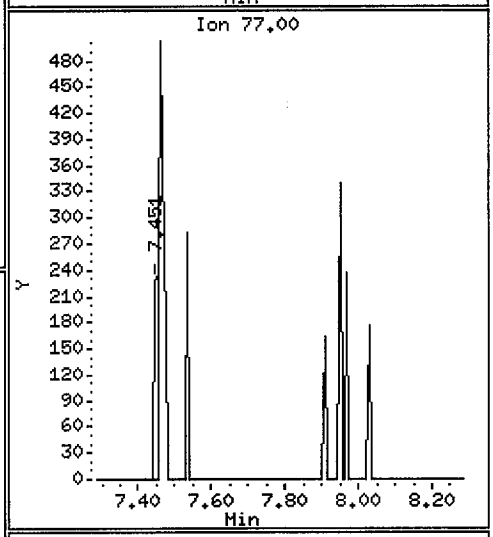


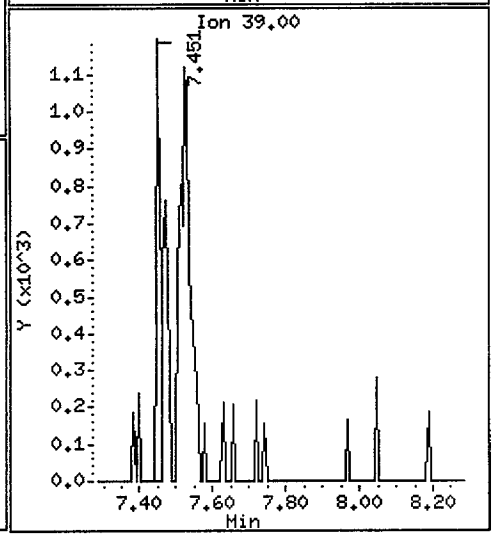












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AA,1,0,,

Purge Volume: 25.0

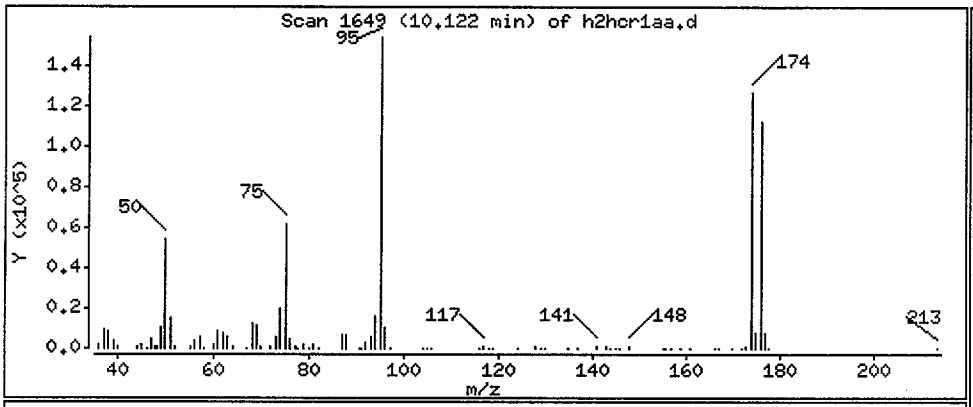
Operator: 063605

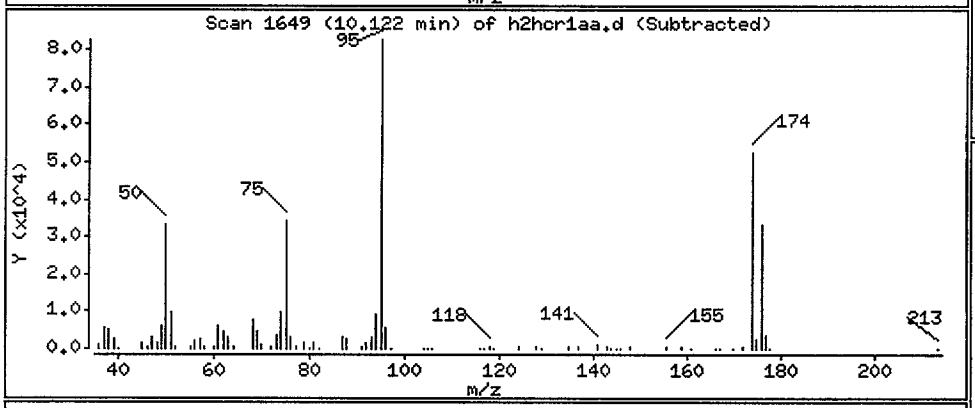
Column phase: J+W 624

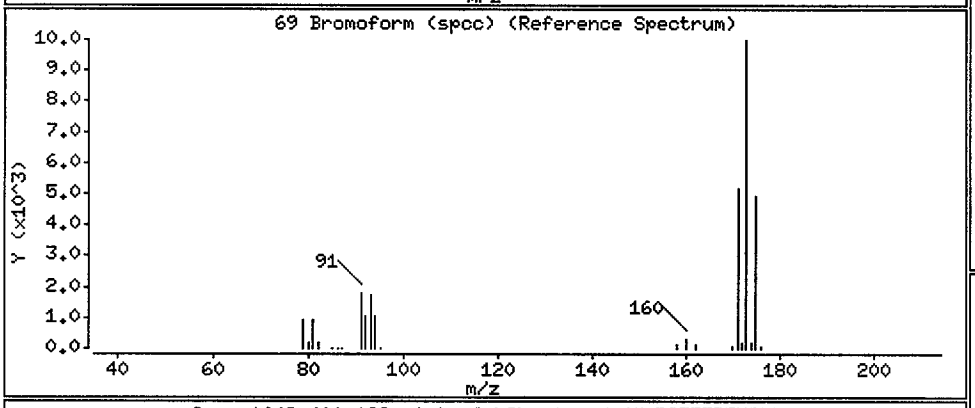
Column diameter: 0.18

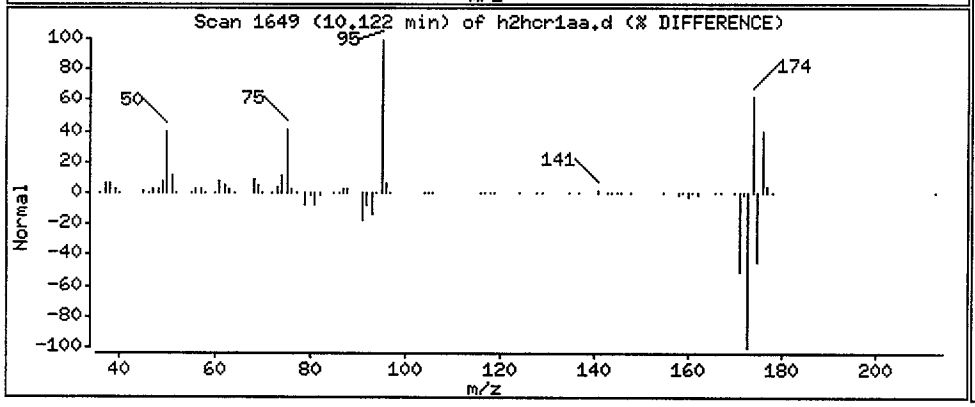
69 Bromoform (spec)

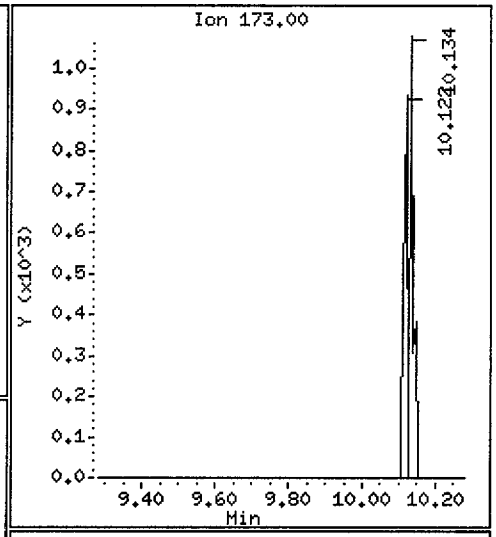
Concentration: 1.0715 ug/L

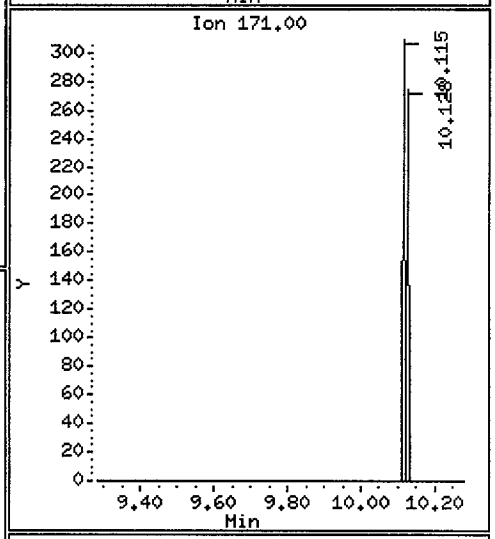


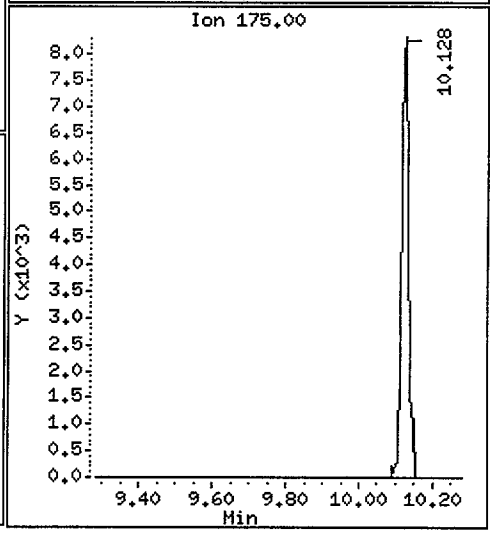












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Report Date: 07-Apr-2006 14:35

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hcr1aa.d
Lab Smp Id: H2HCR1AA Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 19:22
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.668	1037942	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Carbon dioxide Air	0.911	3466123	33.3941877	33.394	5	NIST05.1	80	1
CAS #: 124-38-9								

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1aa.d

Date : 05-APR-2006 19:22

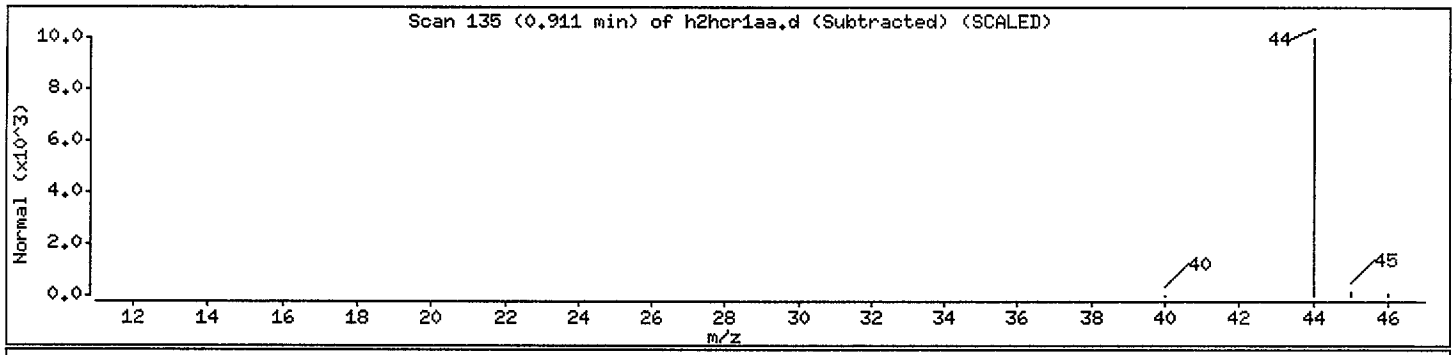
Client ID: G-3097-R3-VOST COND | Instrument: mz.i

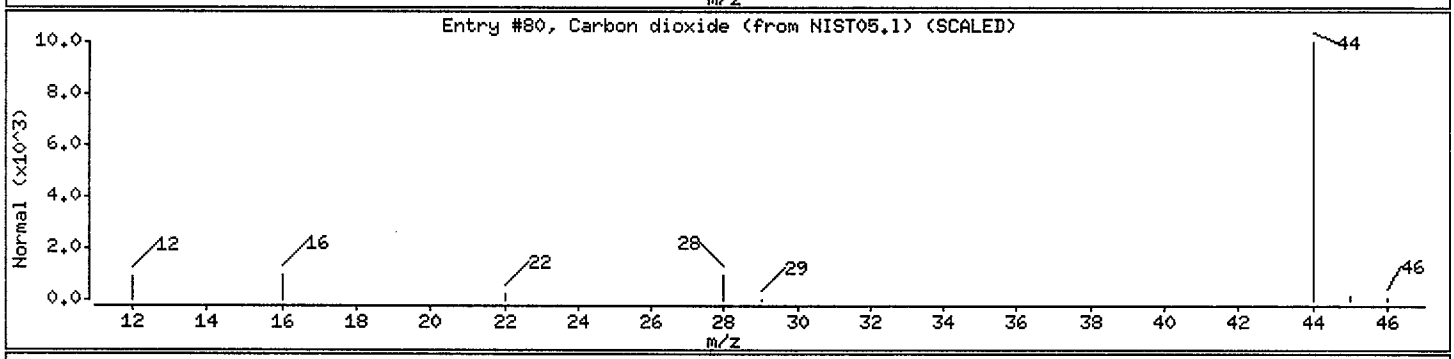
Sample Info: H2HCR1AA,1,0,,

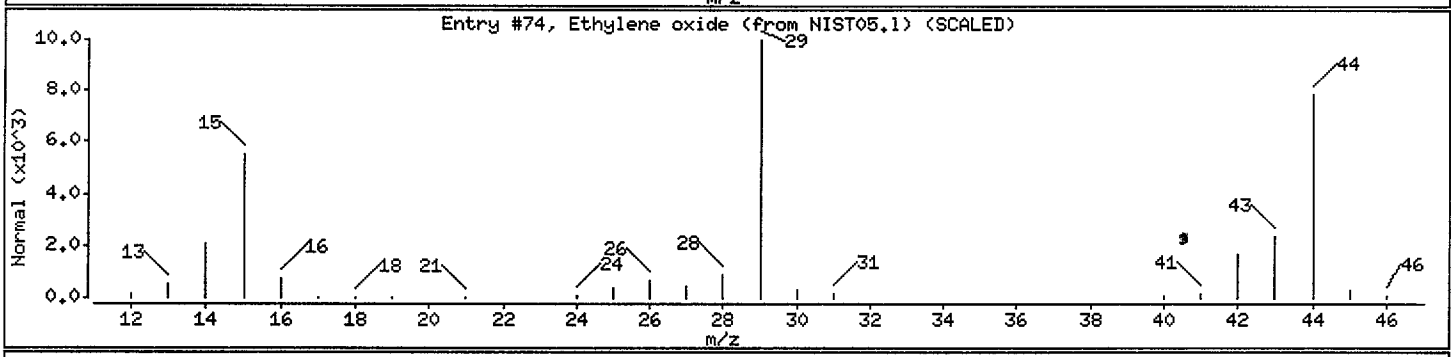
Purge Volume: 25.0 | Operator: 063605

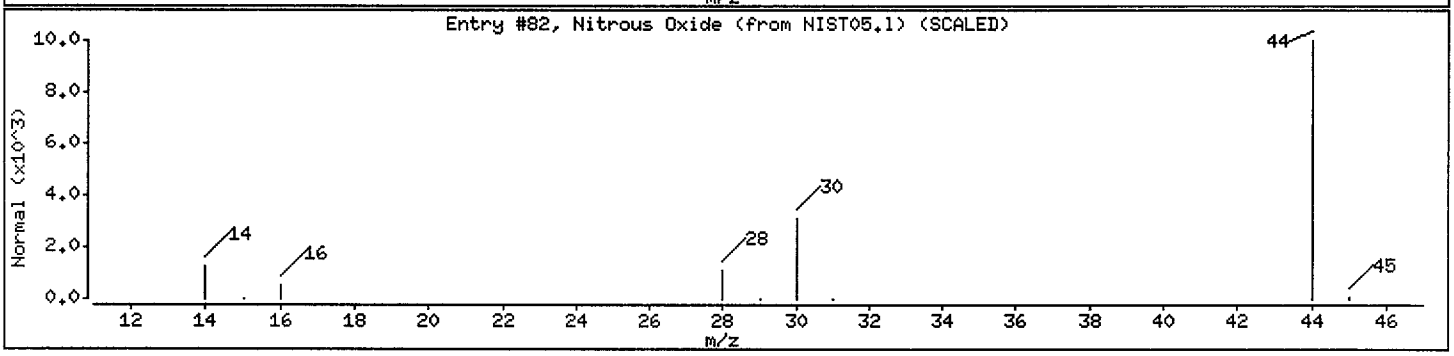
Column phase: J+W 624 | Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44









STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.3 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.3**	**1.0**	**ug/L**	**0.10**
Bromoform	**0.84 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	**0.22 J**	**1.0**	**ug/L**	**0.10**
Chlorodibromomethane	**1.1**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**6.3**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.76 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	110	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 07-Apr-2006 14:37

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Lab Smp Id: H2HCR1AC Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 20:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

04/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	919647	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	170310	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	204506	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	139785	10.9696	10.970
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	161193	10.9387	10.939
$ 6 Toluene-d8	98	7.455	7.455	(0.834)	746070	9.97003	9.9700
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	193348	9.37468	9.3747
22 Acetone	43	2.132	2.126	(0.376)	5839	4.33763	4.3376(M)
27 Methylene Chloride	84	2.509	2.503	(0.443)	16925	1.10041	1.1004
40 Chloroform (ccc)	83	4.614	4.608	(0.814)	210271	6.32807	6.3281
46 Trichloroethene	130	6.110	6.105	(1.078)	19506	0.76460	0.76460
50 Bromodichloromethane	83	6.688	6.683	(1.180)	26947	2.30027	2.3003
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	2524	1.05253	1.0525
63 Chlorobenzene (spcc)	112	8.957	8.958	(1.003)	12036	0.22249	0.22249

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 07-Apr-2006 14:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
69 Bromoform (spcc)	173	9.772	9.779	(1.094)	115	0.84357	0.84357
85 1,4-Dichlorobenzene	146	11.512	11.519	(1.002)	3358	0.10084	0.10084

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Lab Smp Id: H2HCR1AC Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 20:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	919647	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	170310	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	204506	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.234	5.229	(0.924)	139785	10.9696	10.970
$ 4 Dibromofluoromethane	113	4.827	4.821	(0.852)	161193	10.9387	10.939
$ 6 Toluene-d8	98	7.455	7.455	(0.834)	746070	9.97000	9.9700
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	193348	9.37464	9.3746
15 Bromomethane	94	1.420	1.414	(0.251)	293	~~0.86422~~	~~0.86422~~
22 Acetone	43	2.132	2.126	(0.376)	2579	3.71264	3.7126
23 *Iodomethane	142	2.180	2.181	(0.385)	628	~~0.54845~~	~~0.54845~~
27 Methylene Chloride	84	2.509	2.503	(0.443)	16925	1.10044	1.1004
40 Chloroform (ccc)	83	4.614	4.608	(0.814)	210271	6.32808	6.3281
42 Carbon Tetrachloride	117	4.614	5.028	(0.814)	3355	0~~.47613~~	~~0.47613~~
45 1,2-Dichloroethane	62	5.672	5.326	(1.001)	14538	~~0.75702~~	~~0.75702~~

MT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
46 Trichloroethene	130	6.110	6.105	(1.078)	19506	0.76462	0.76462
50 Bromodichloromethane	83	6.688	6.683	(1.180)	26947	2.30029	2.3003
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	6898	~~0.85893~~	~~0.85893~~
55 trans-1,3-Dichloropropene	75	7.479	7.784	(0.837)	60	~~0.62920~~	~~0.62920~~
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	2524	1.05261	1.0526
63 Chlorobenzene (spcc)	112	8.957	8.958	(1.003)	12036	0.22250	0.22250
69 Bromoform (spcc)	173	9.772	9.779	(1.094)	115	0.84370	0.84370
85 1,4-Dichlorobenzene	146	11.512	11.519	(1.002)	3358	0.10087	0.10087

KT
4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcr1ac.d
Lab Smp Id: H2HCR1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	919647	-14.75
2 Chlorobenzene-d5	188899	94450	377798	170310	-9.84
3 1,4 Dichlorobenze	220143	110072	440286	204506	-7.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	-0.01
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 05-Apr-2006 20:51

STL Knoxville

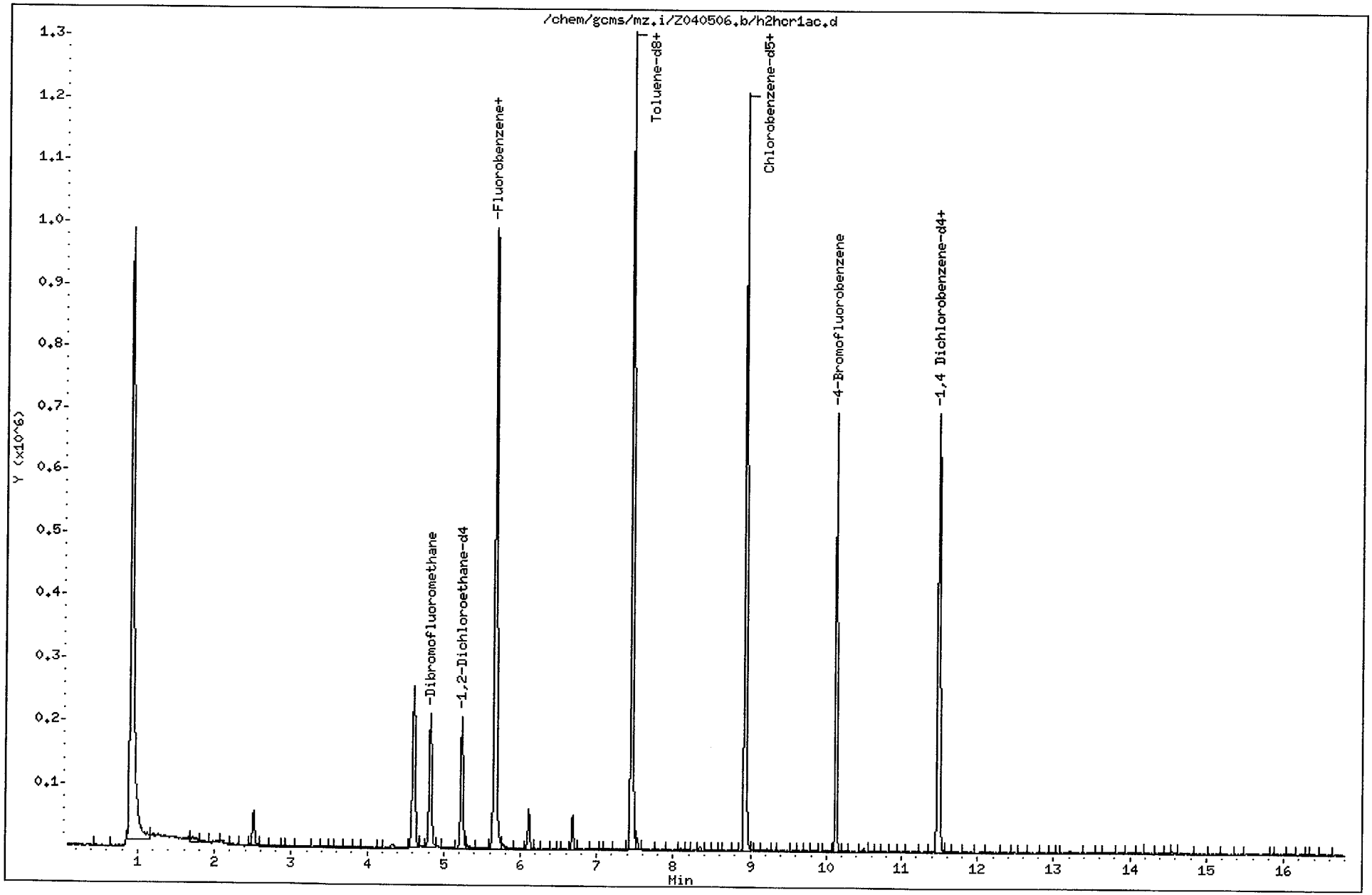
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HCR1AC
Client Smp ID: G-3097-R3-VOST COND
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE DUPLICATE{♥╚Çz·H @
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.970	109.70	71-127
$ 4 Dibromofluorometha	10.000	10.939	109.39	79-120
$ 6 Toluene-d8	10.000	9.9700	99.70	80-120
$ 7 4-Bromofluorobenze	10.000	9.3746	93.75	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Date : 05-APR-2006 20:33
Client ID: G-3097-R3-VOST COND
Sample Info: H2HCR1AC,1,0,,
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

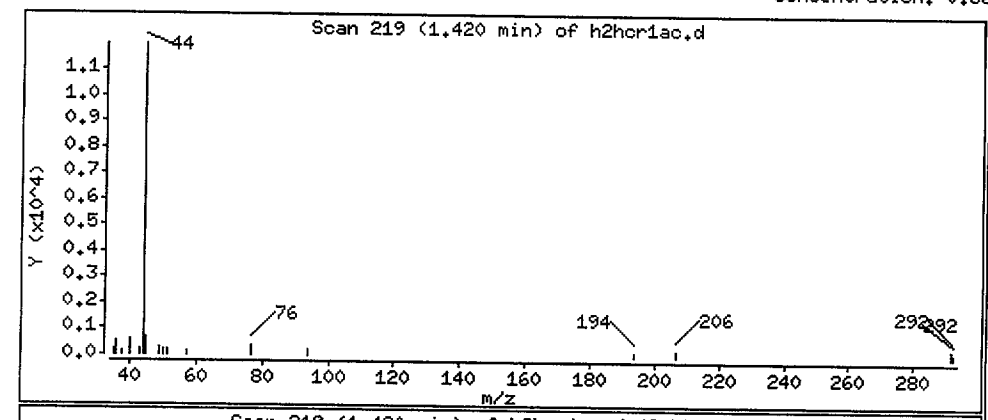
Operator: 063605

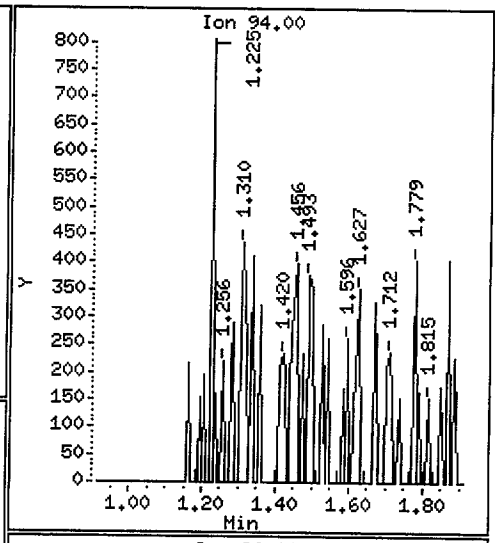
Column phase: J+W 624

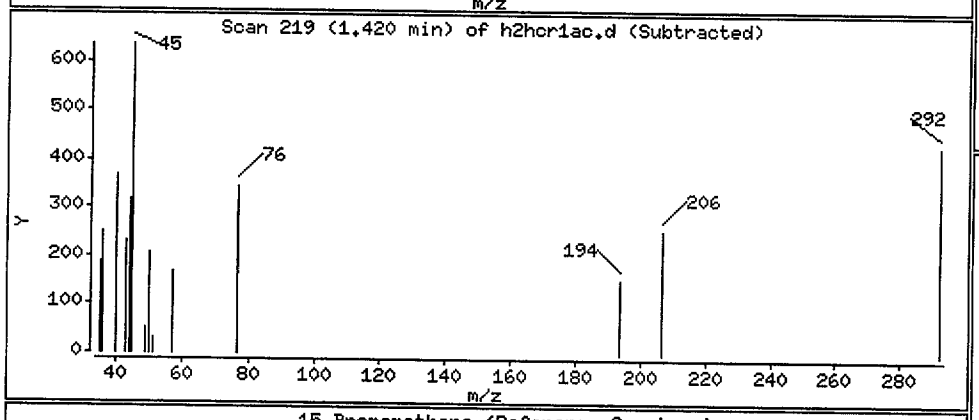
Column diameter: 0.18

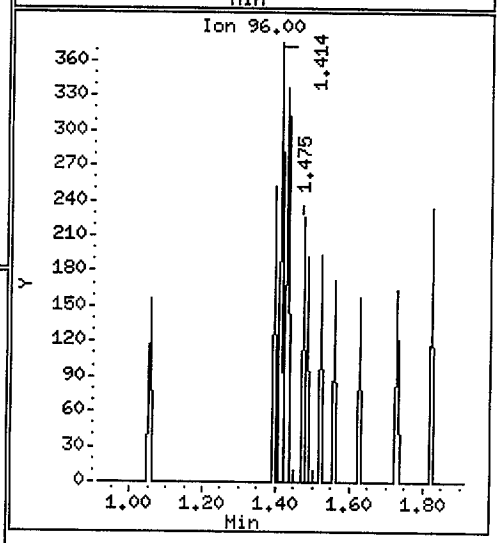
15 Bromomethane

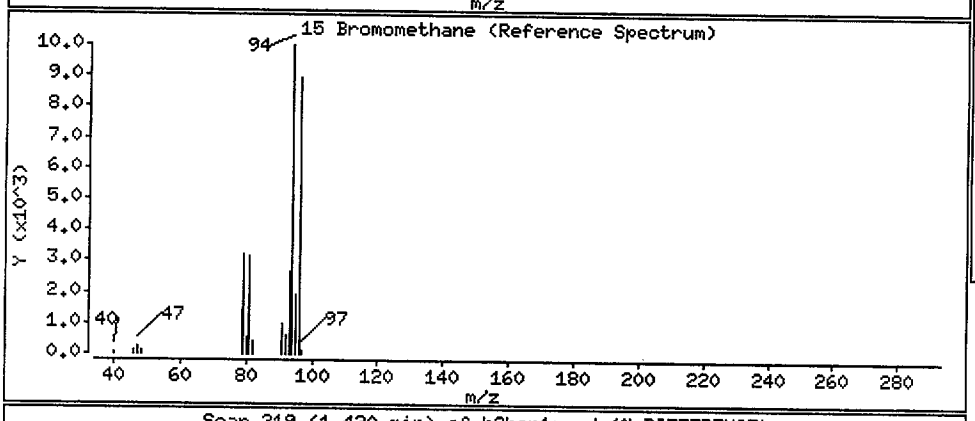
Concentration: 0.86422 ug/L

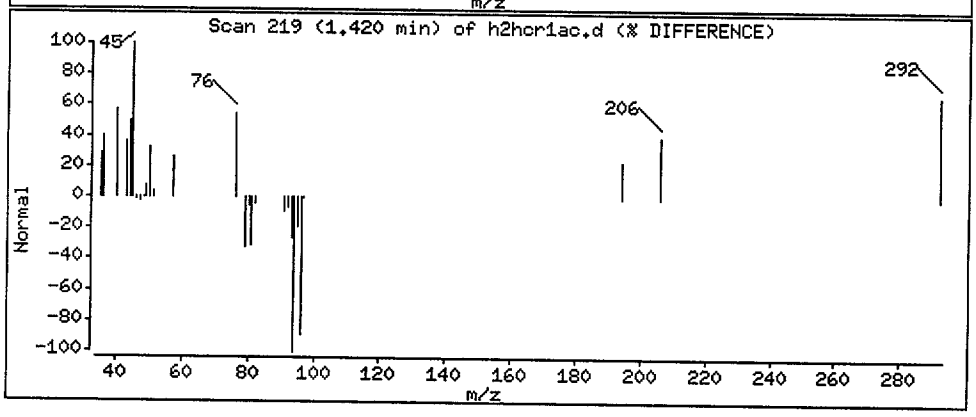












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

Operator: 063605

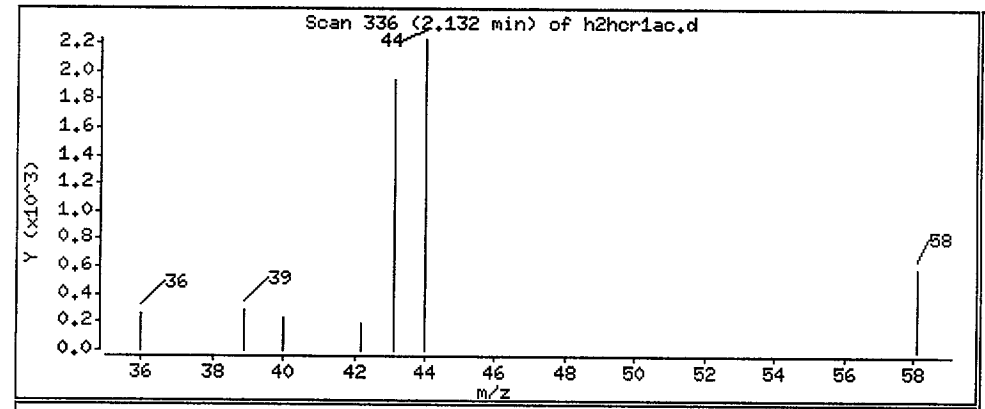
Column phase: J+W 624

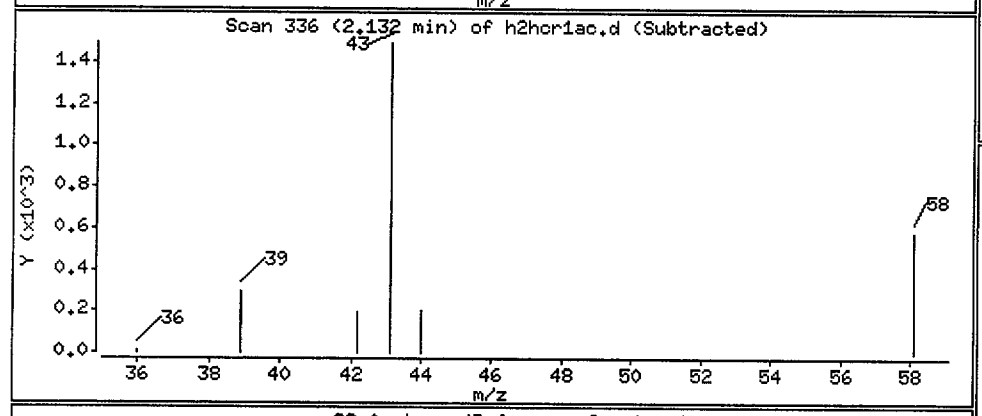
Column diameter: 0.18

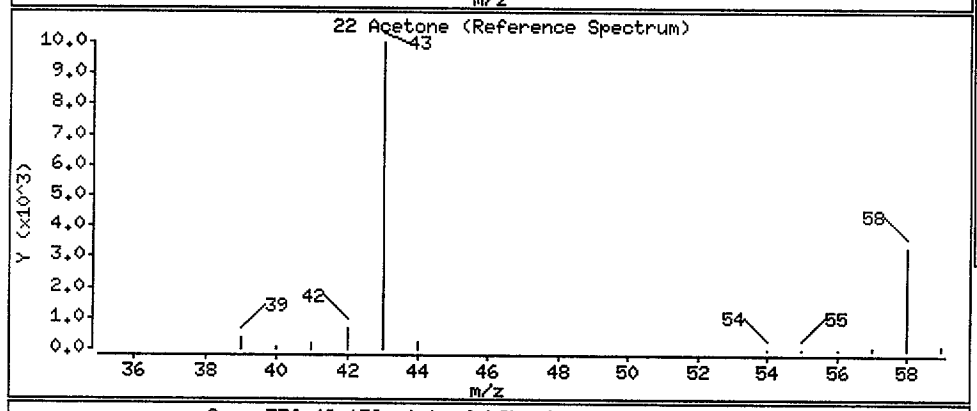
MT 4/7/06 split peak

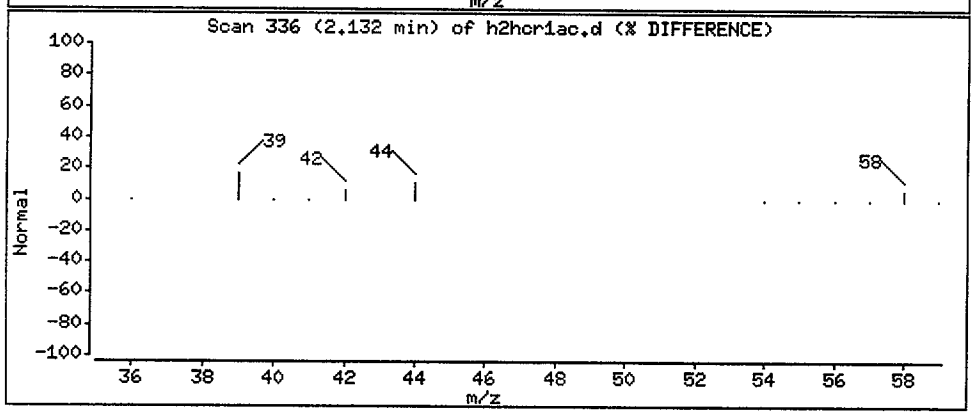
22 Acetone

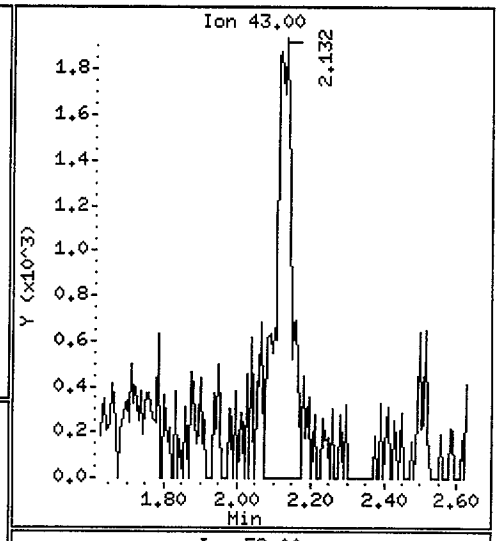
Concentration: 4.3376 ug/L

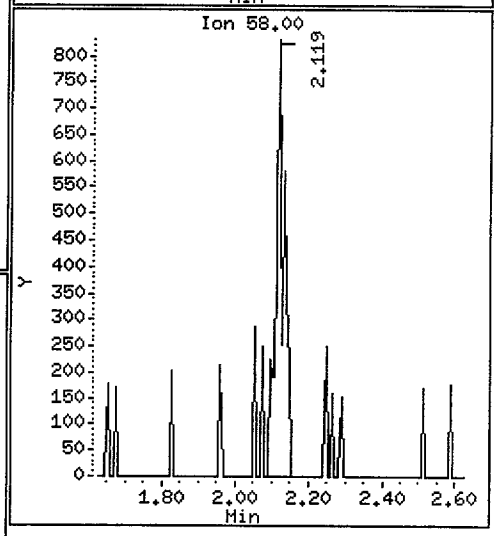












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

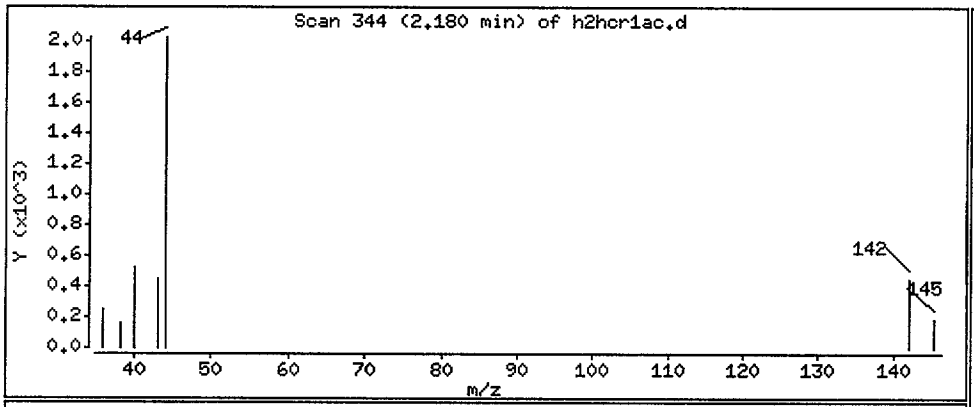
Operator: 063605

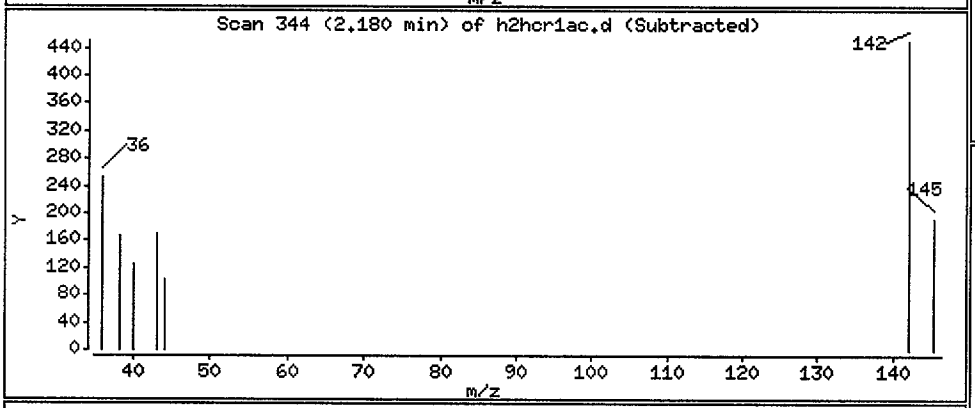
Column phase: J+W 624

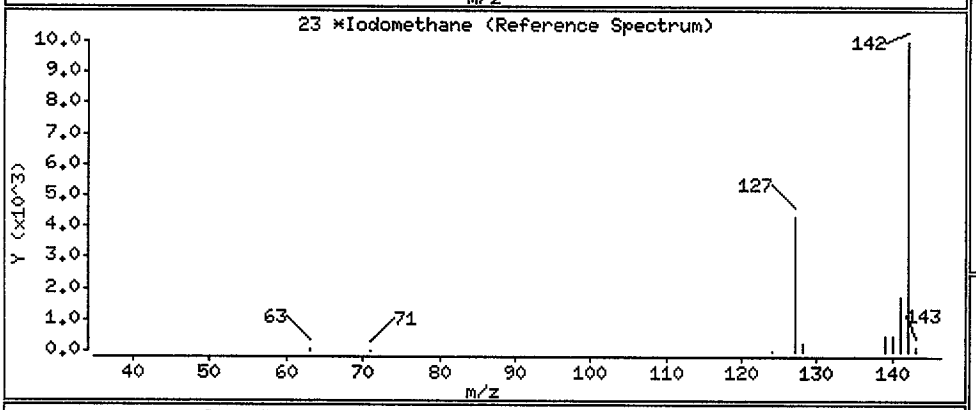
Column diameter: 0.18

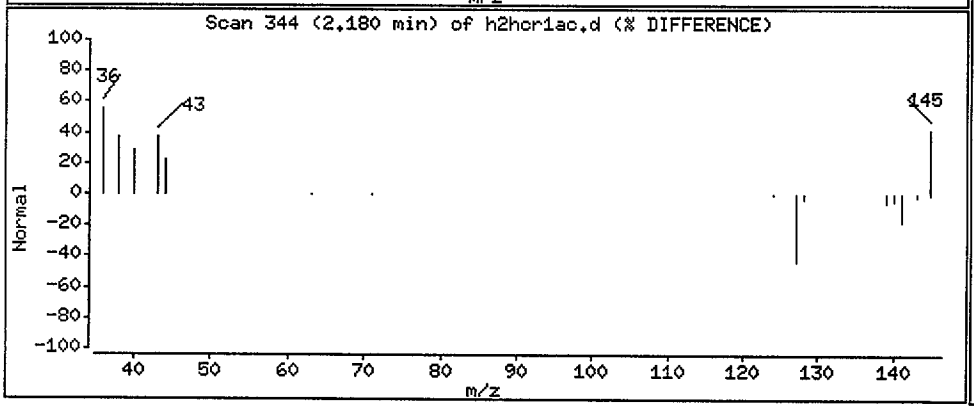
23 *Iodomethane

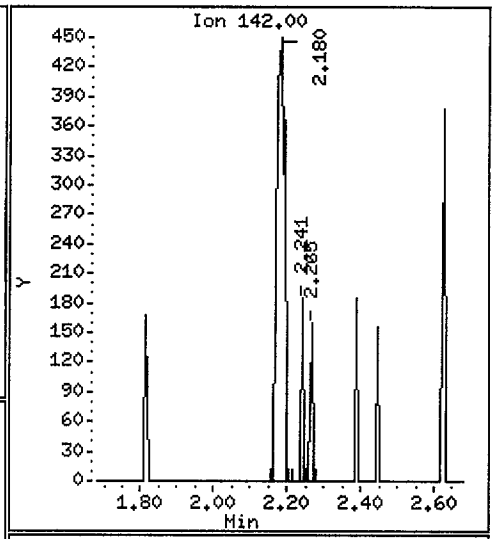
Concentration: 0.54845 ug/L

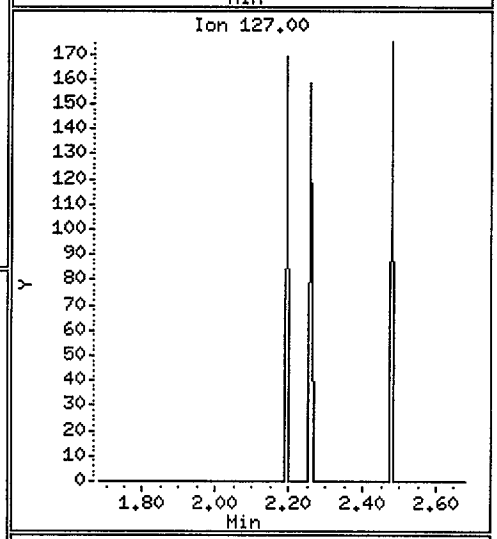


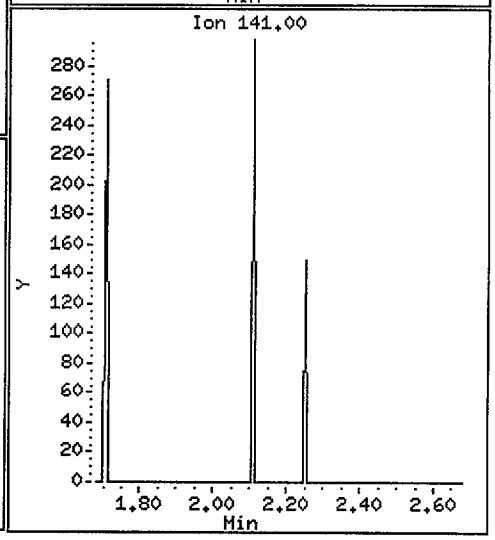












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

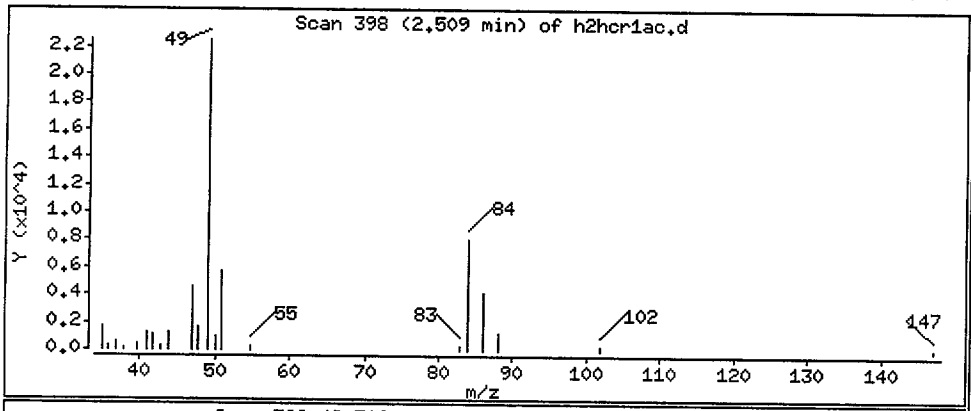
Operator: 063605

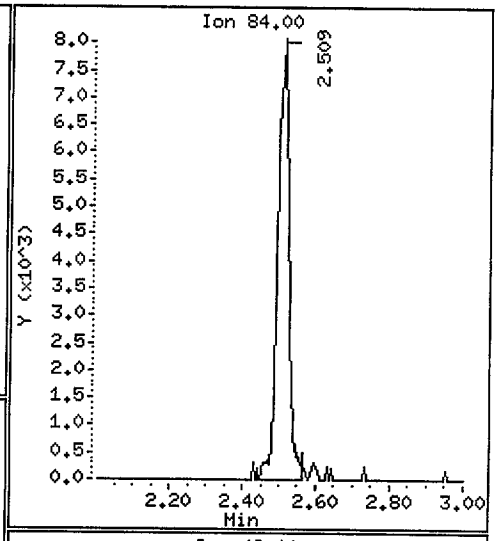
Column phase: J+W 624

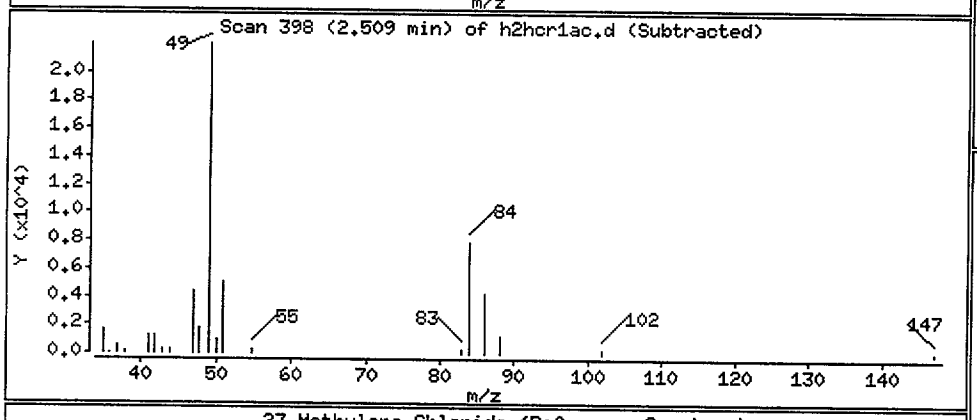
Column diameter: 0.18

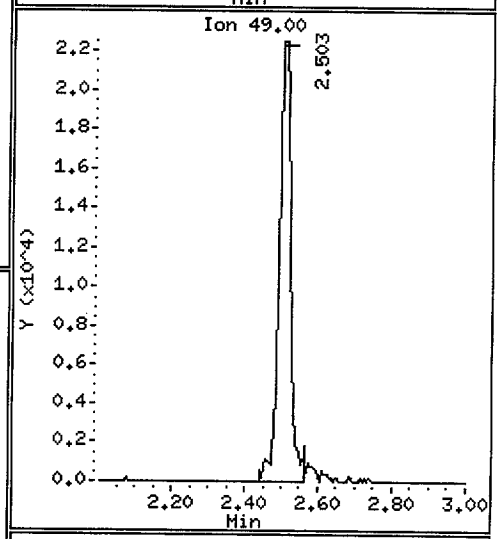
27 Methylene Chloride

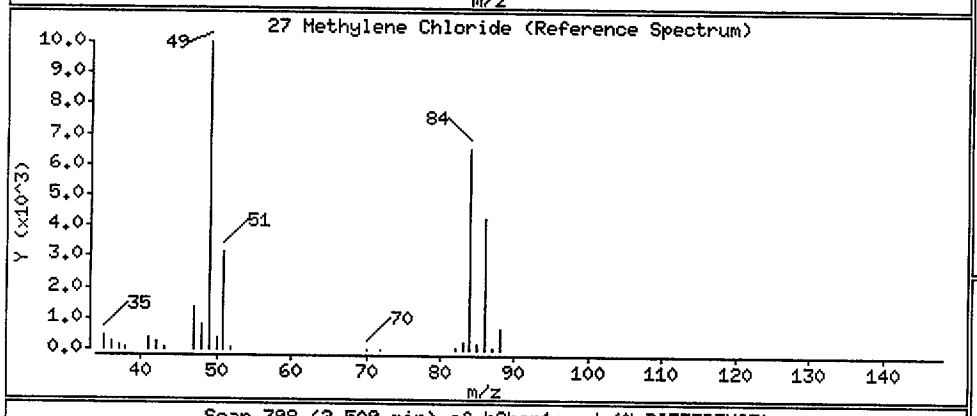
Concentration: 1.1004 ug/L

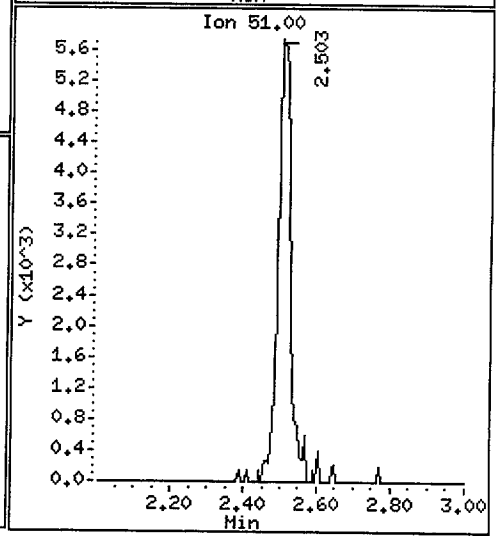


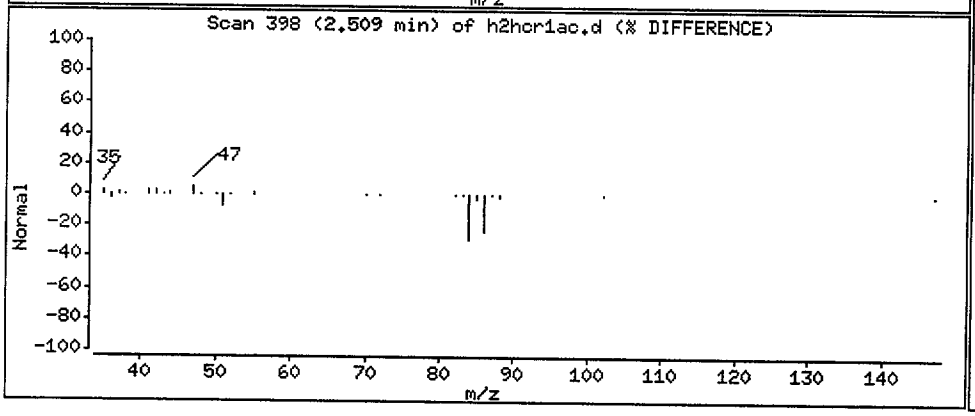












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

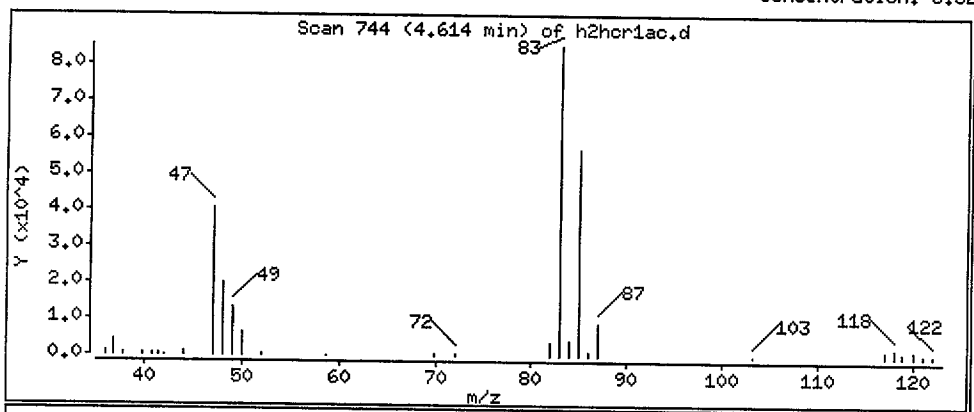
Operator: 063605

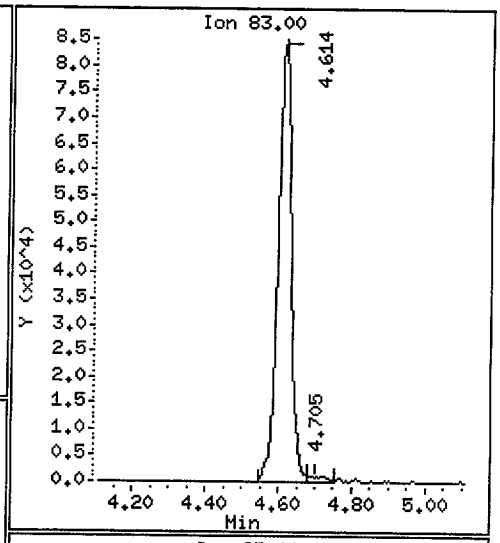
Column phase: J+W 624

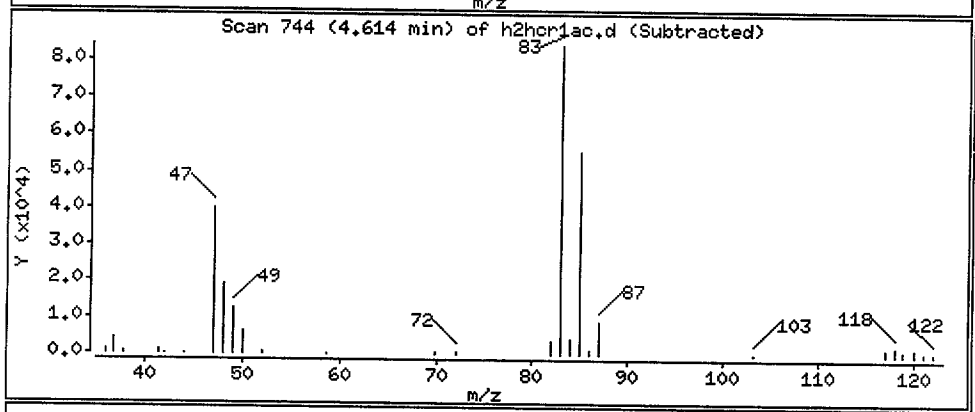
Column diameter: 0.18

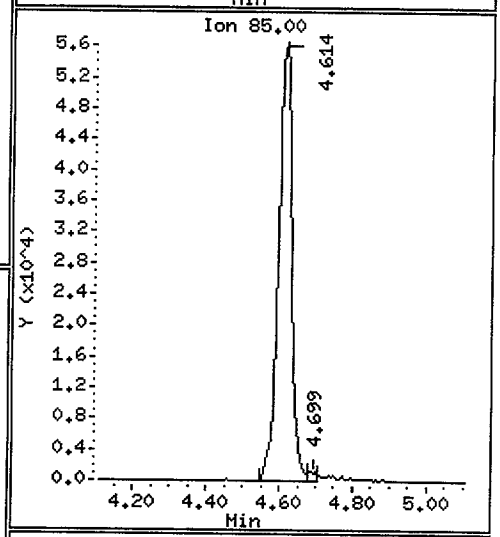
40 Chloroform (ccc)

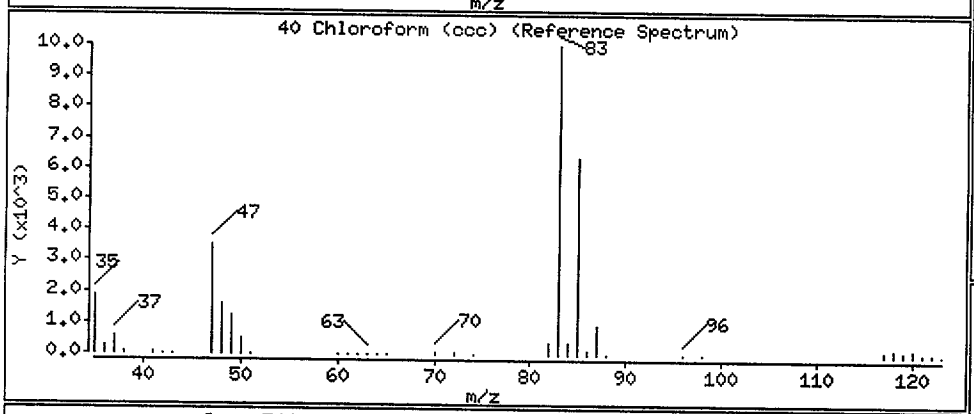
Concentration: 6.3281 ug/L

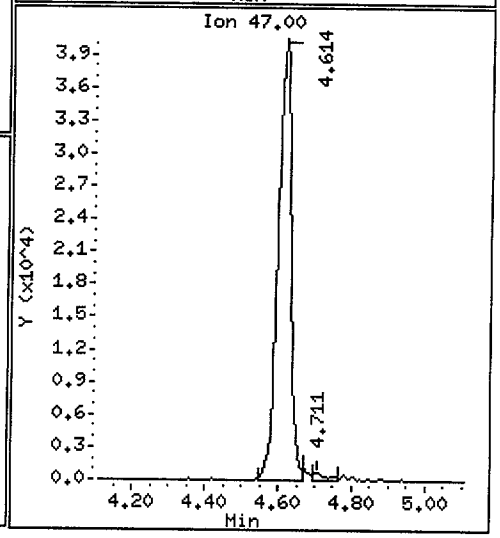


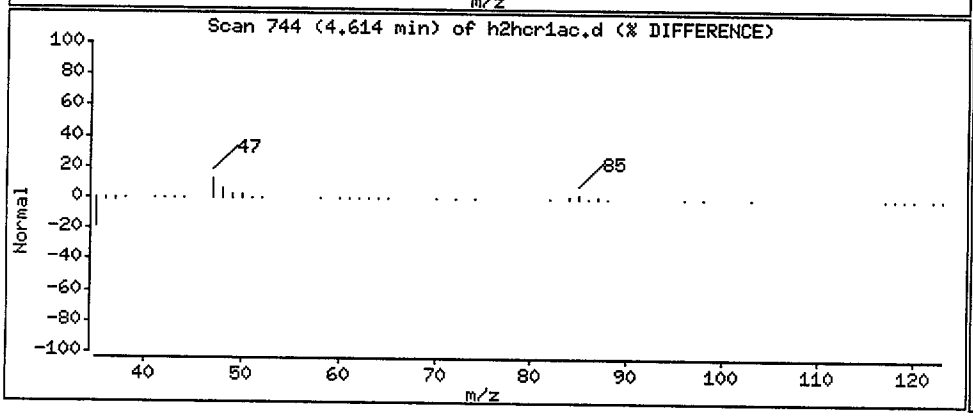












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

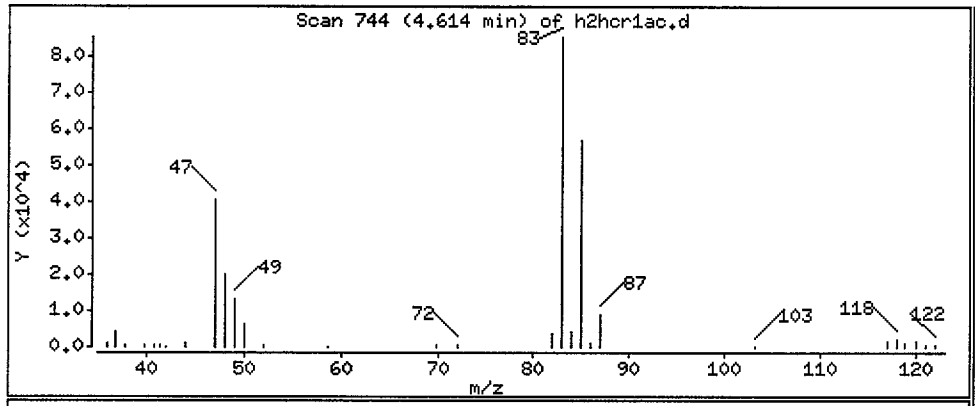
Operator: 063605

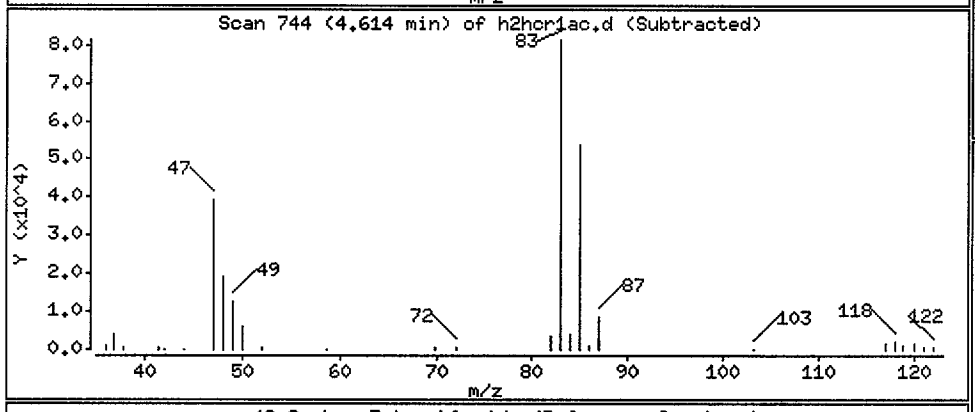
Column phase: J+W 624

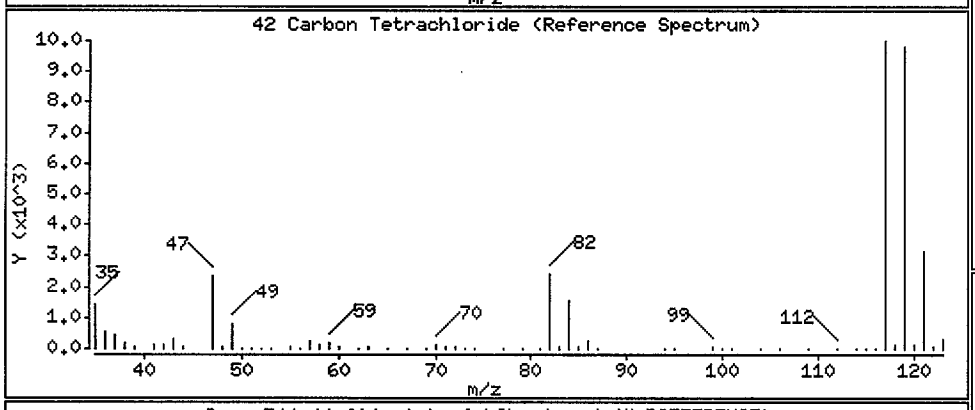
Column diameter: 0.18

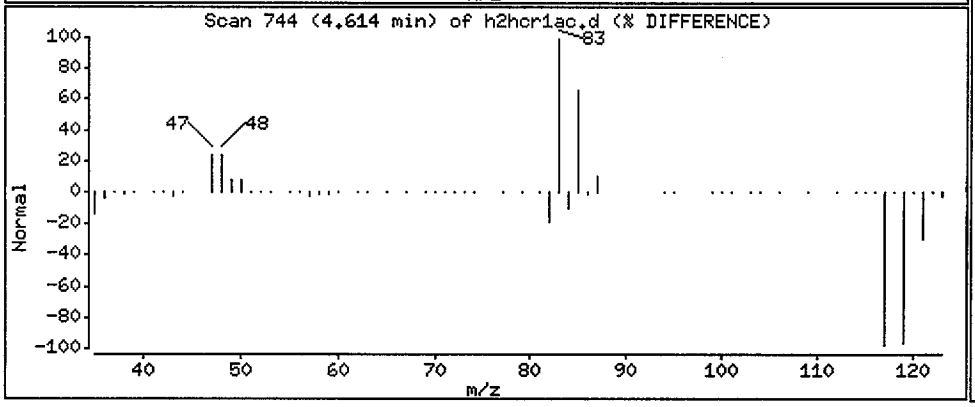
42 Carbon Tetrachloride

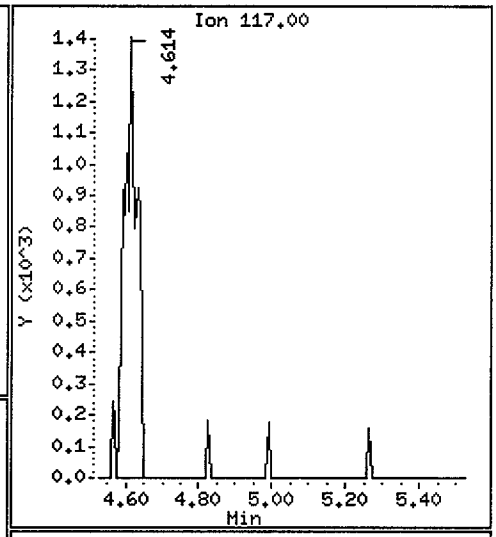
Concentration: 0.47613 ug/L

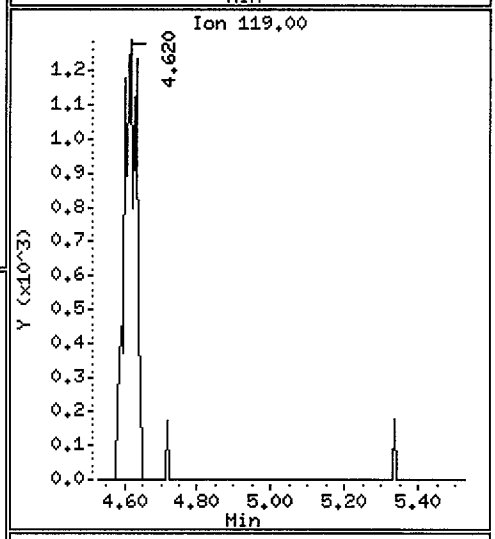


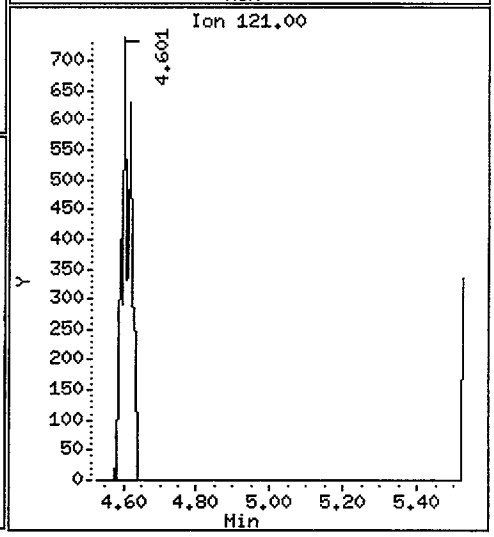












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

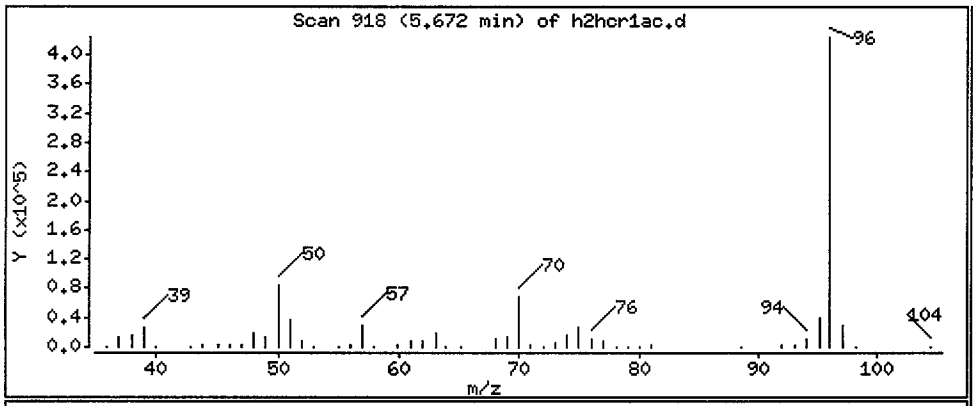
Operator: 063605

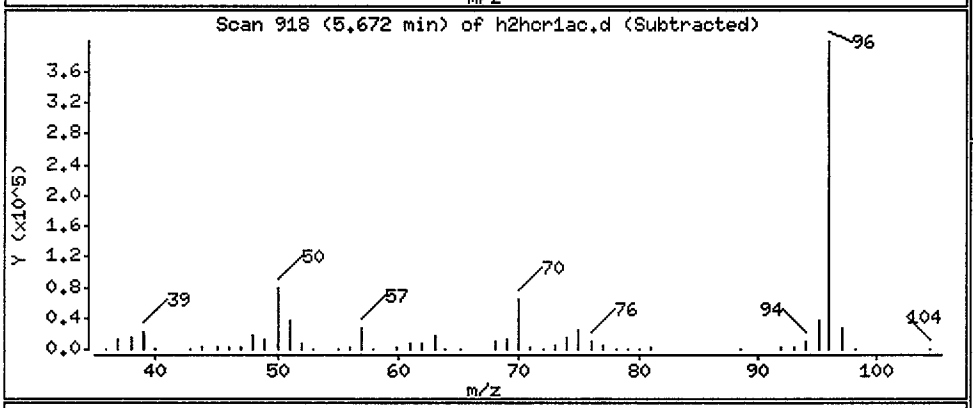
Column phase: J+W 624

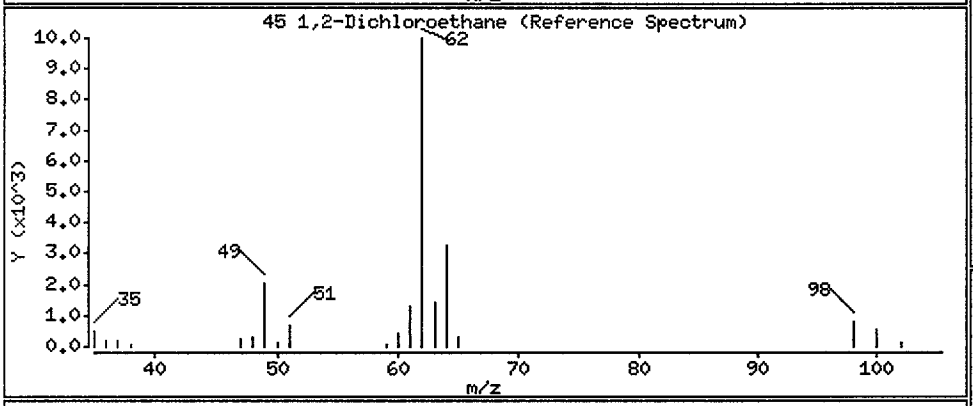
Column diameter: 0.18

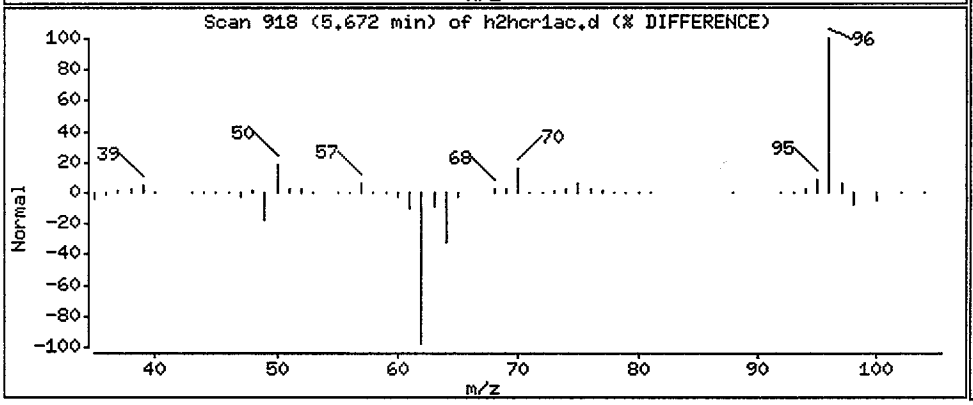
45 1,2-Dichloroethane

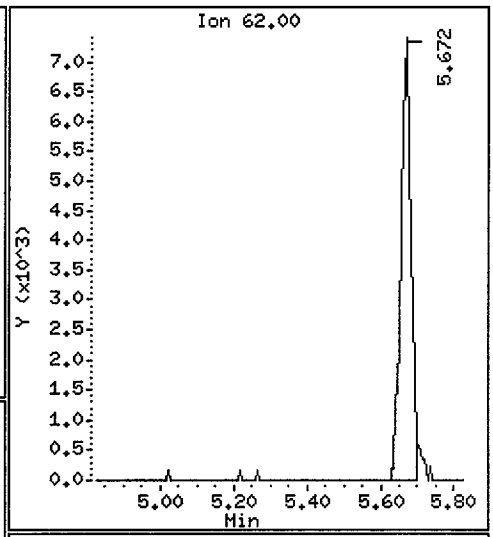
Concentration: 0.75702 ug/L

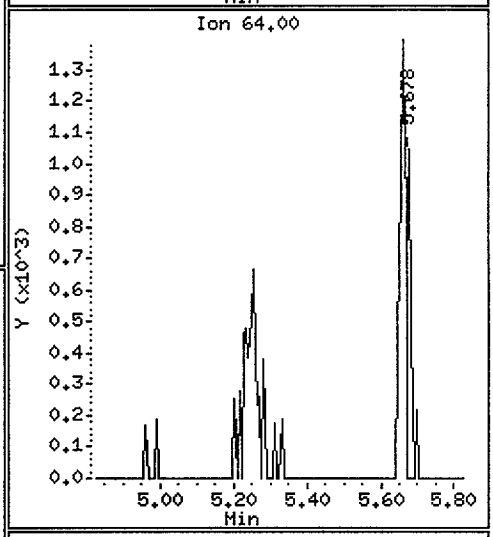


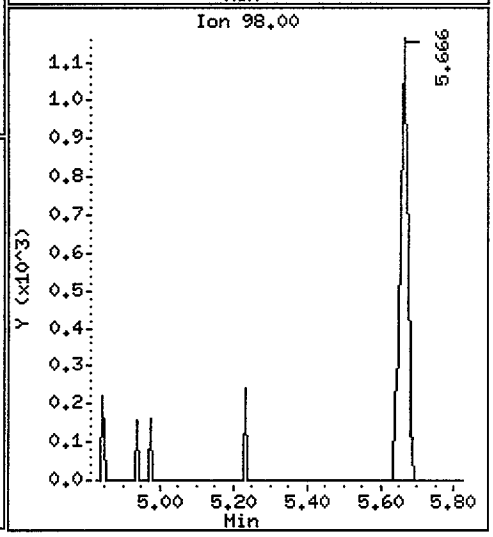












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

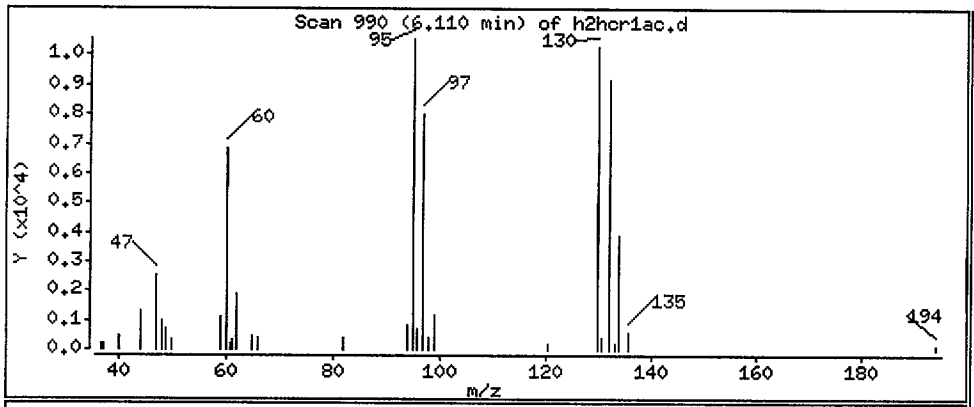
Operator: 063605

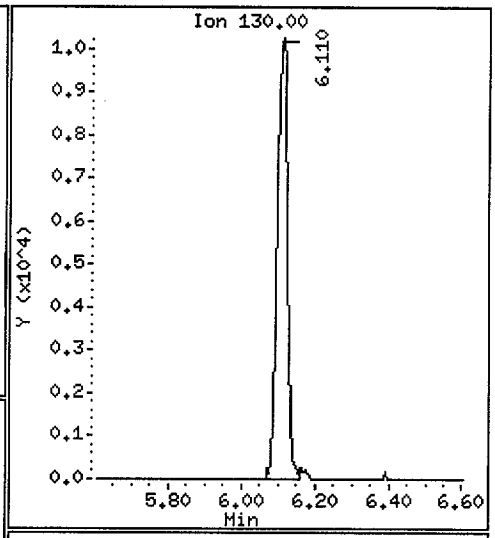
Column phase: J+W 624

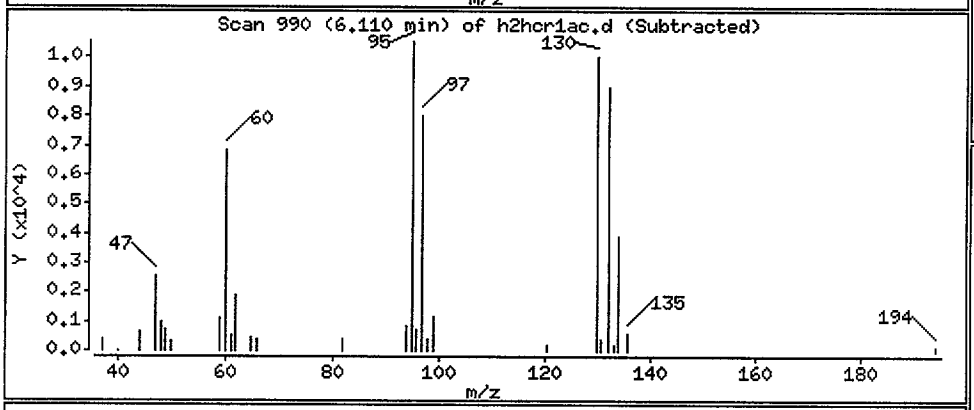
Column diameter: 0.18

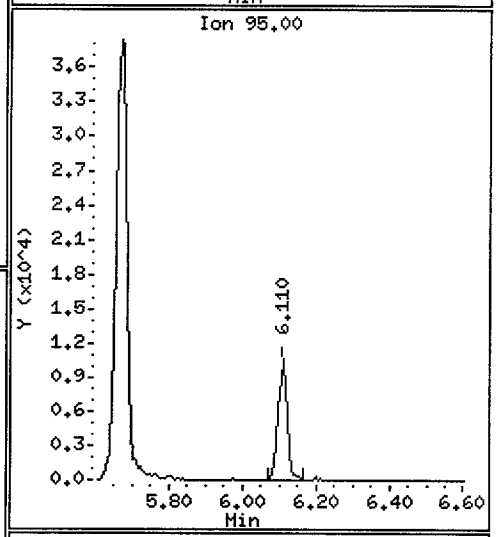
46 Trichloroethene

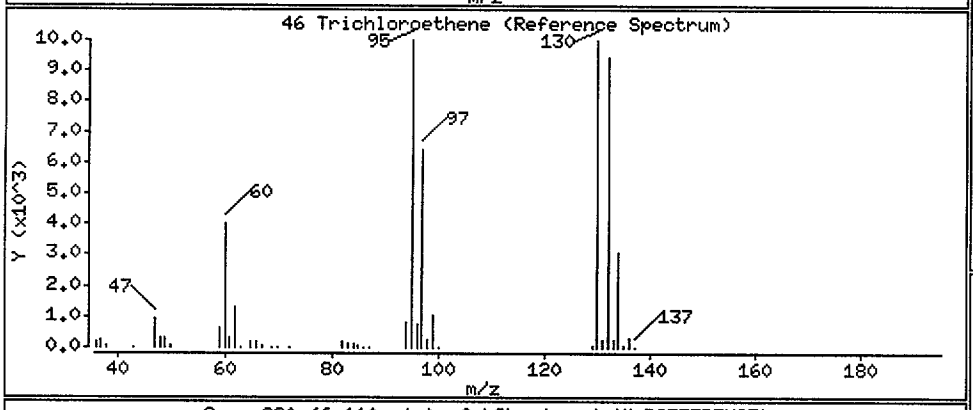
Concentration: 0.76462 ug/L

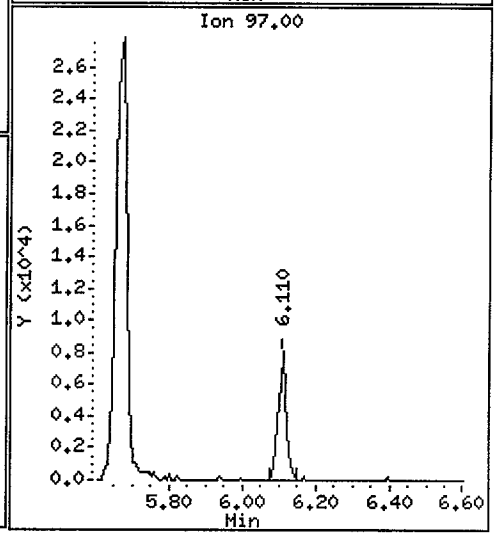


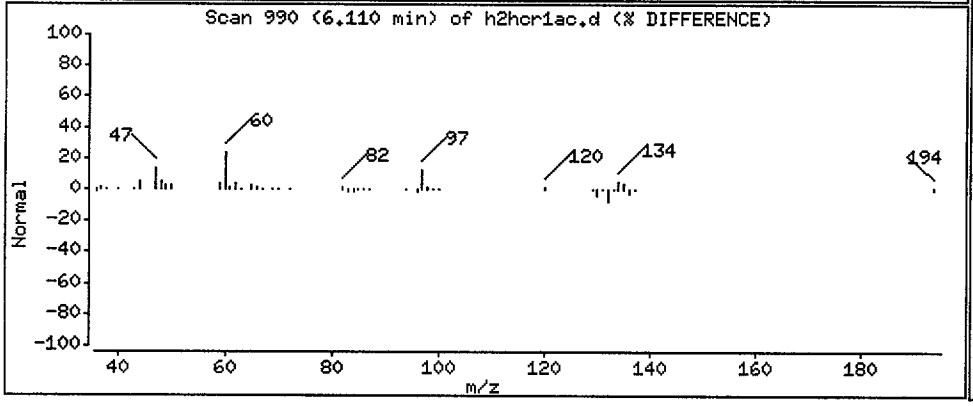












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1.0,,

Purge Volume: 25.0

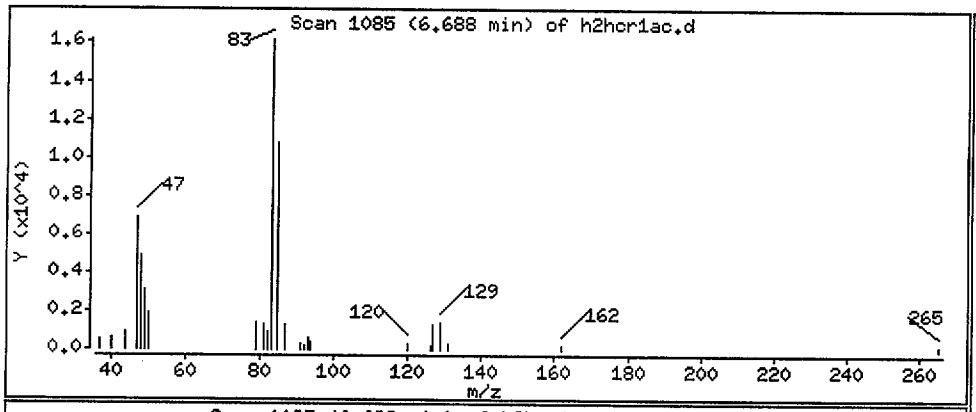
Operator: 063605

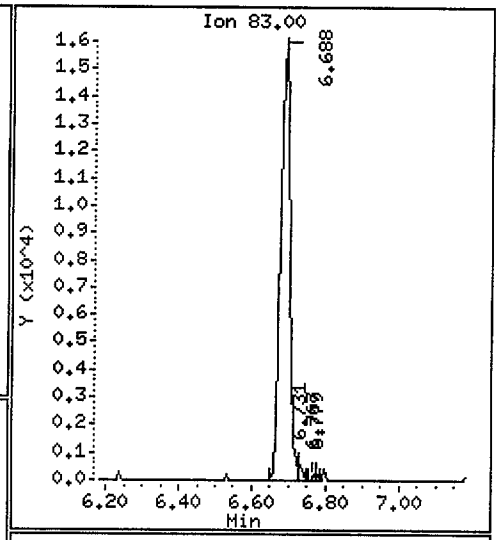
Column phase: J+W 624

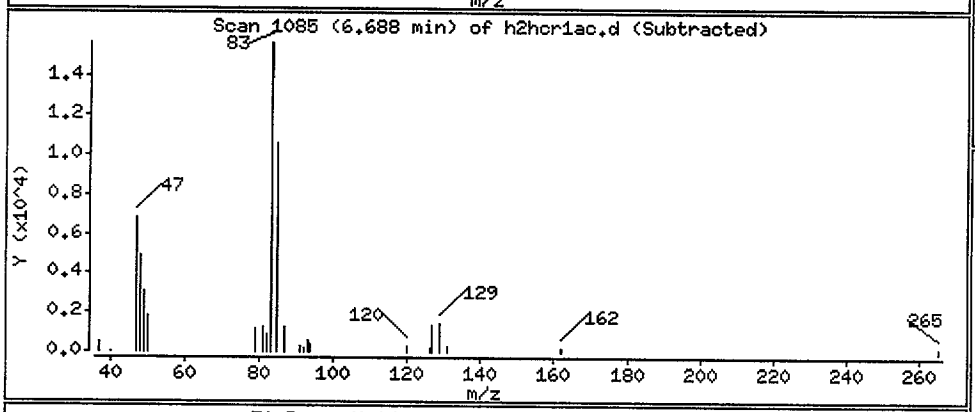
Column diameter: 0.18

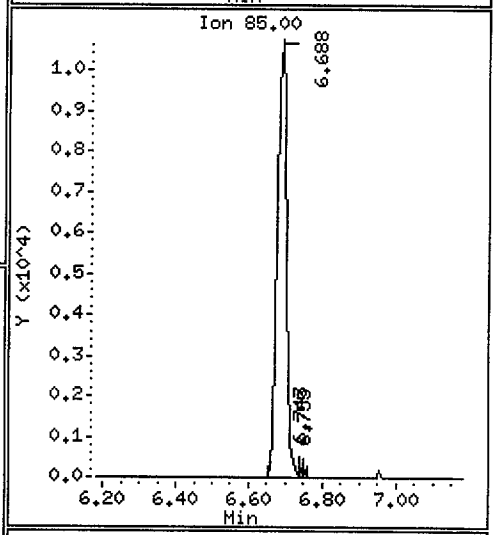
50 Bromodichloromethane

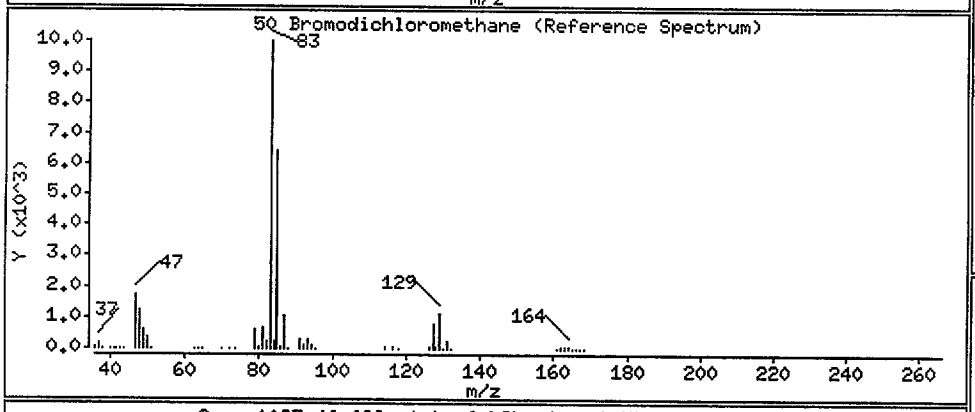
Concentration: 2.3003 ug/L

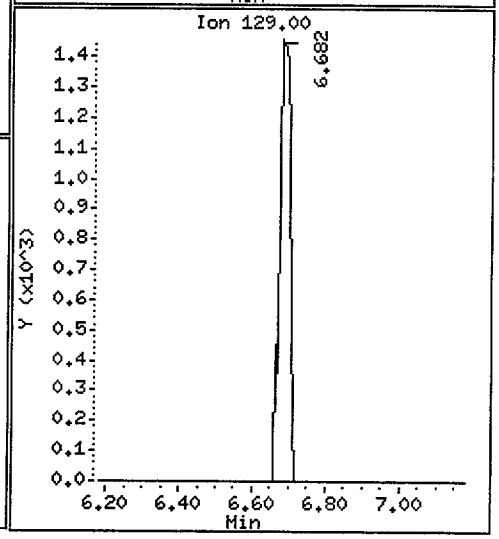


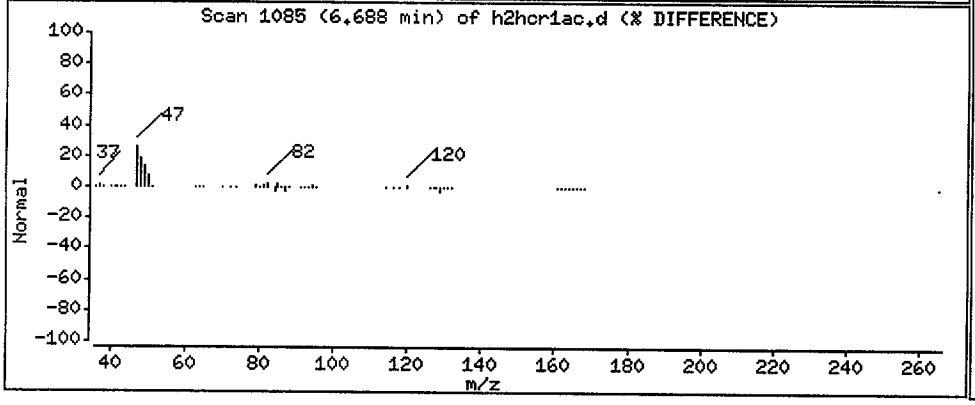












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

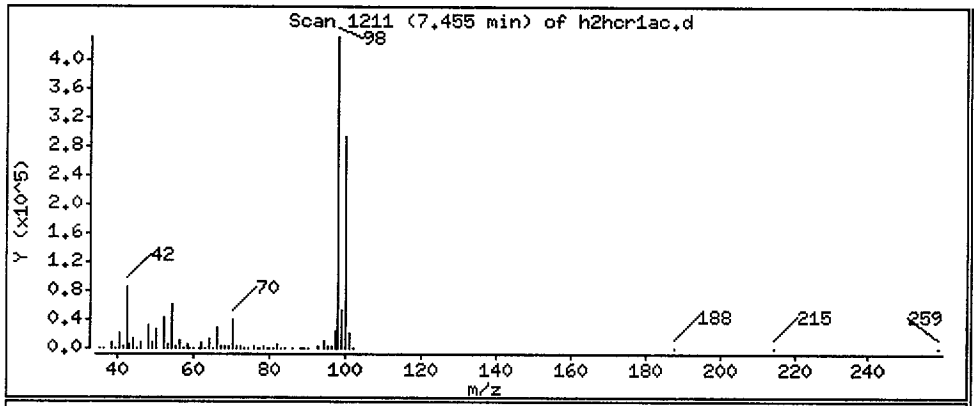
Operator: 063605

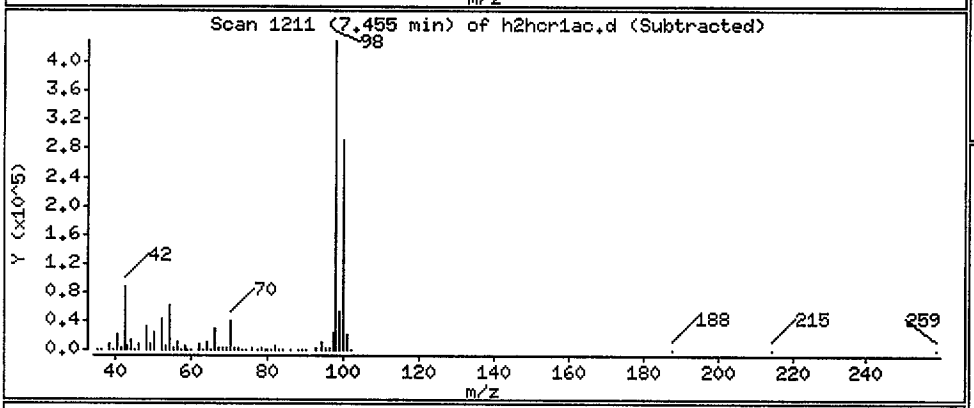
Column phase: J+W 624

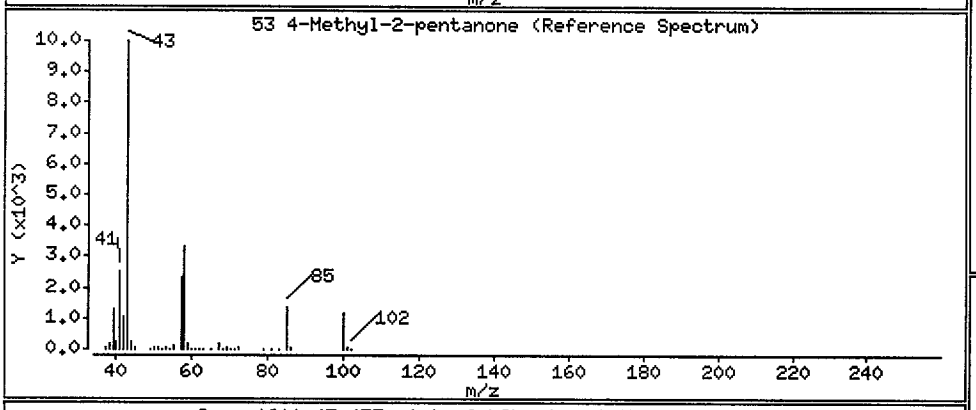
Column diameter: 0.18

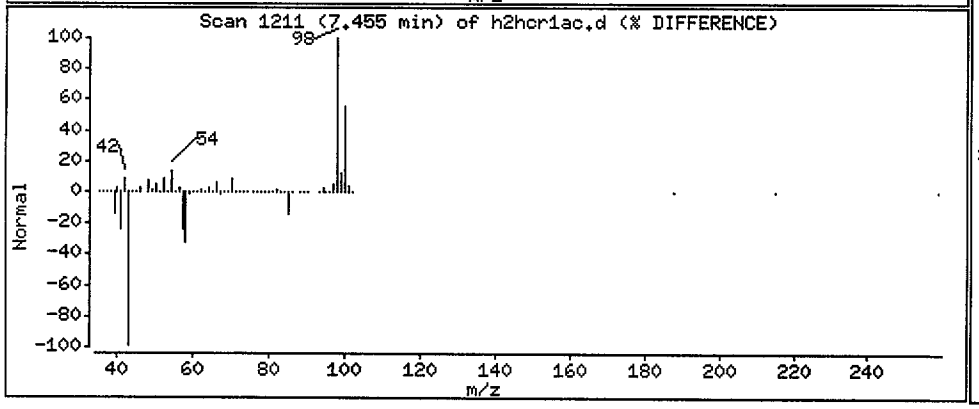
53 4-Methyl-2-pentanone

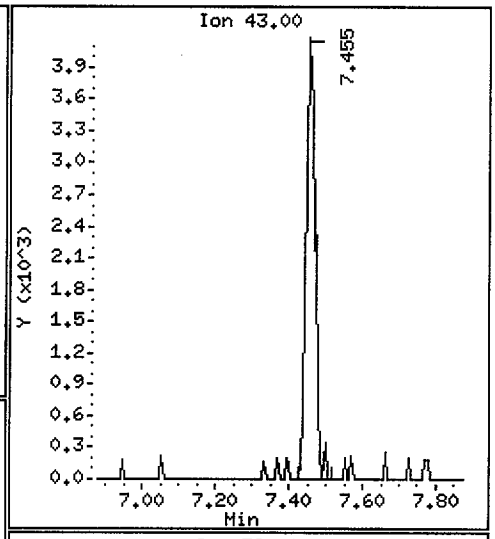
Concentration: 0.85893 ug/L

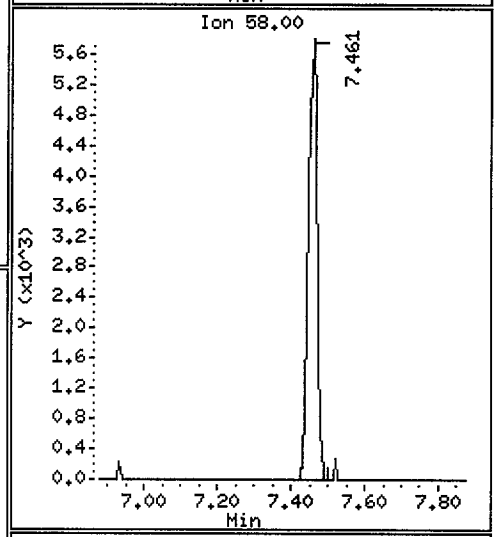


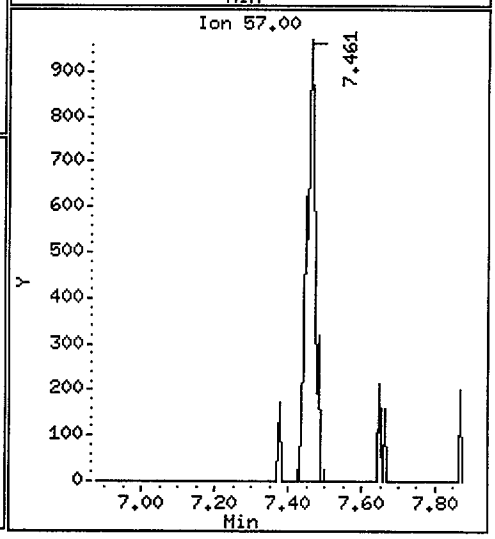












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

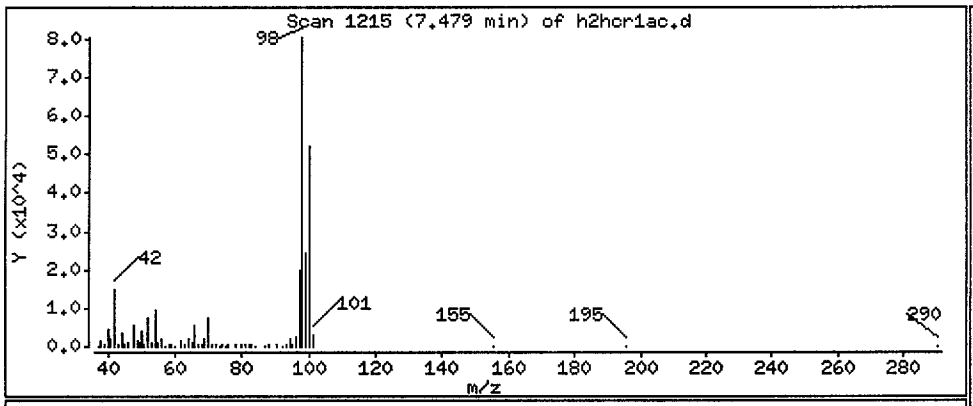
Operator: 063605

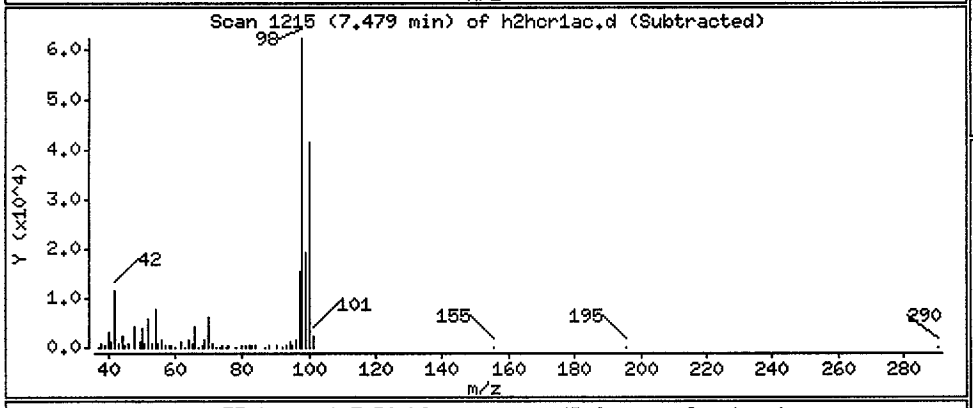
Column phase: J+W 624

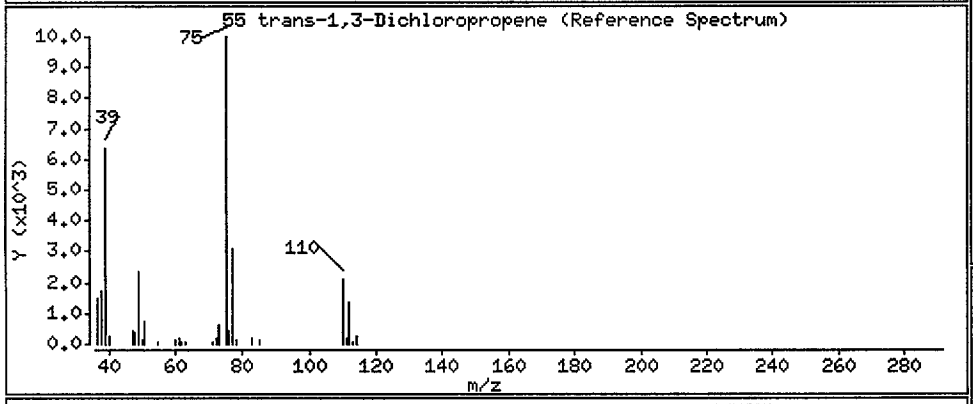
Column diameter: 0.18

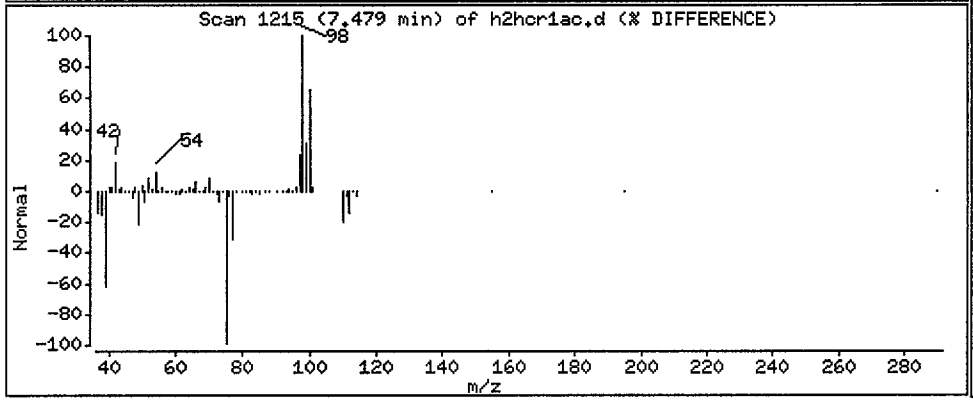
55 trans-1,3-Dichloropropene

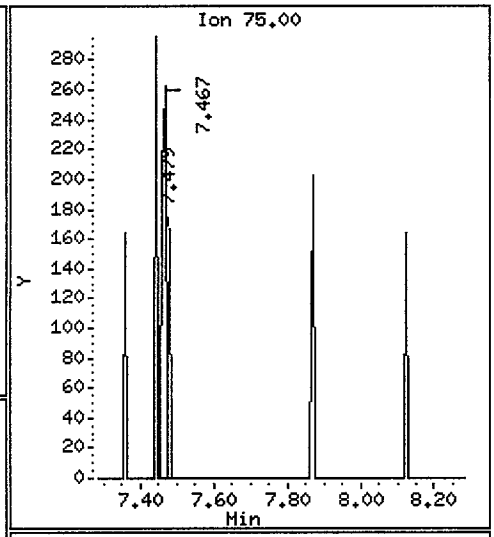
Concentration: 0.62920 ug/L

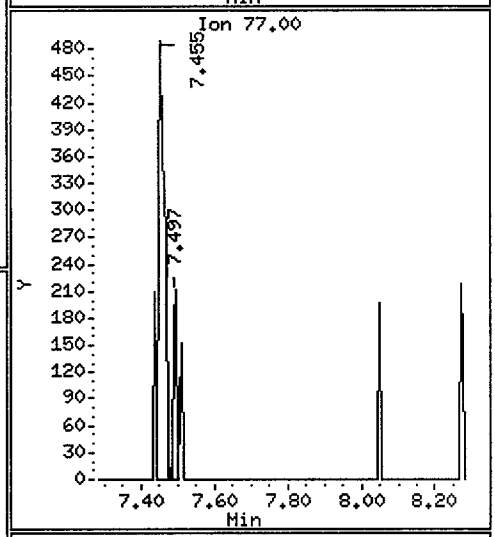


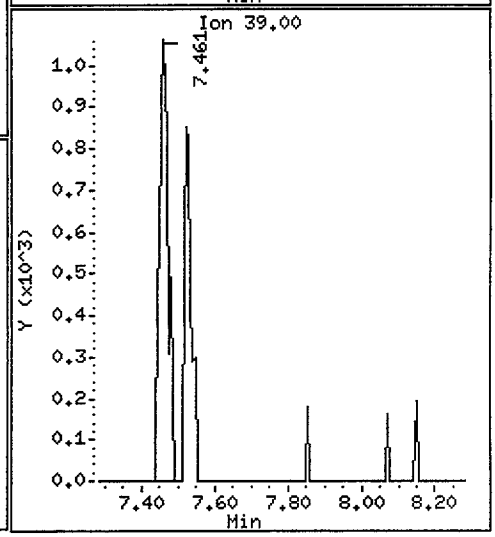












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

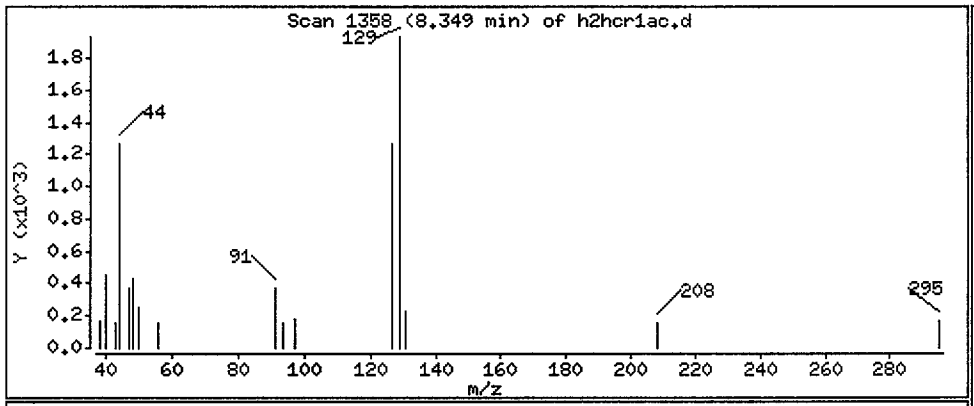
Client ID: G-3097-R3-VOST COND | Instrument: mz.i

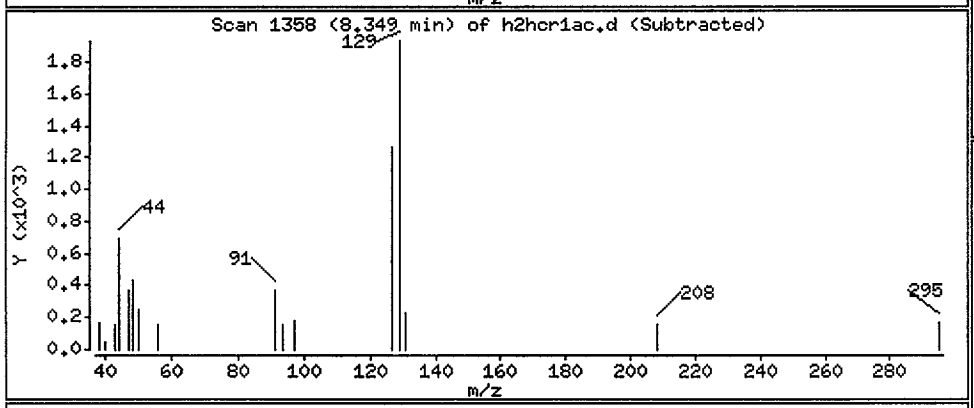
Sample Info: H2HCR1AC,1,0,,

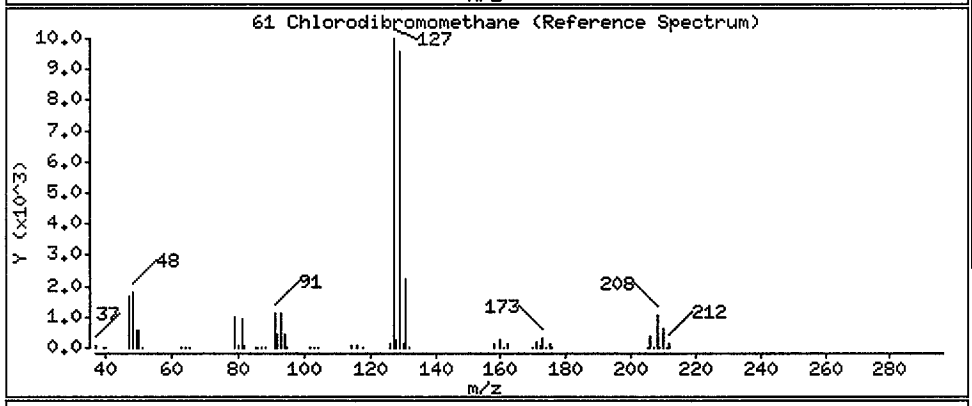
Purge Volume: 25.0 | Operator: 063605

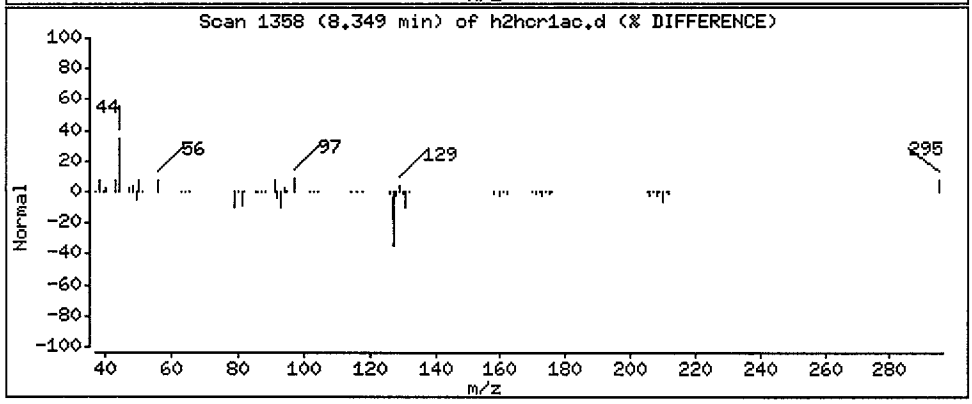
Column phase: J+W 624 | Column diameter: 0.18

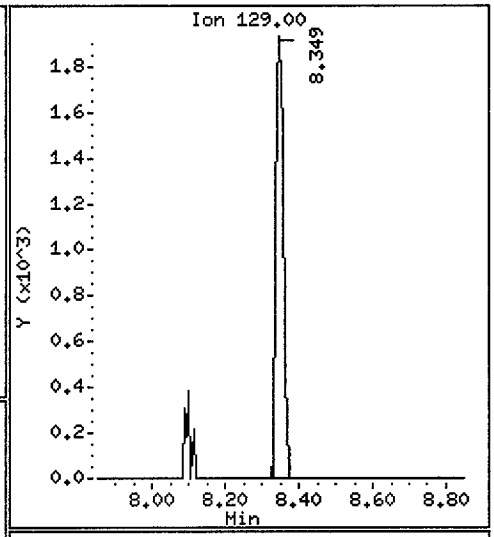
61 Chlorodibromomethane | Concentration: 1.0526 ug/L

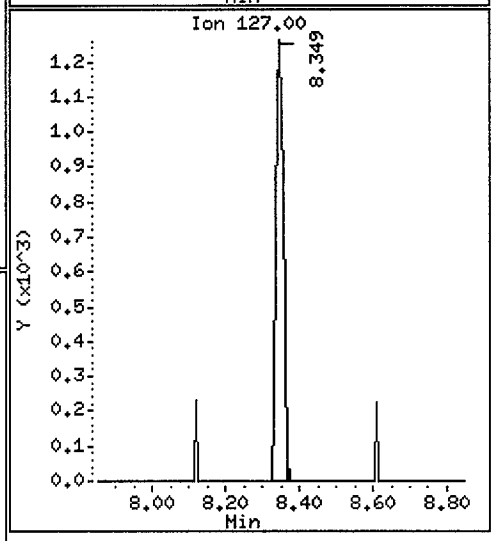












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

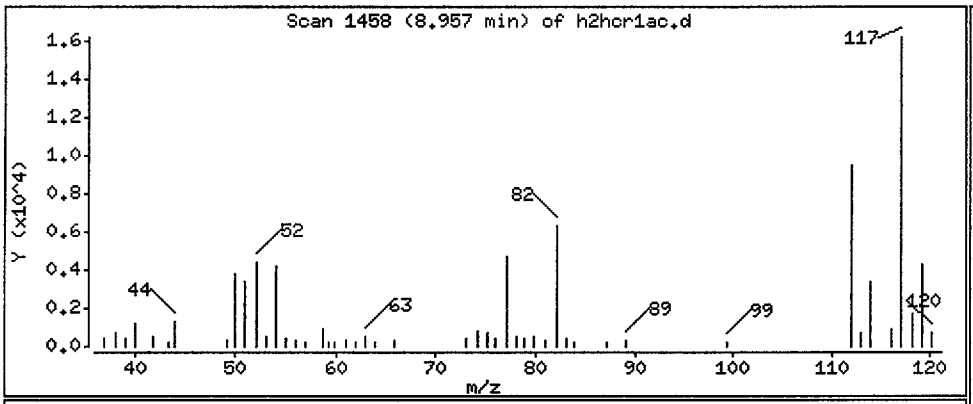
Operator: 063605

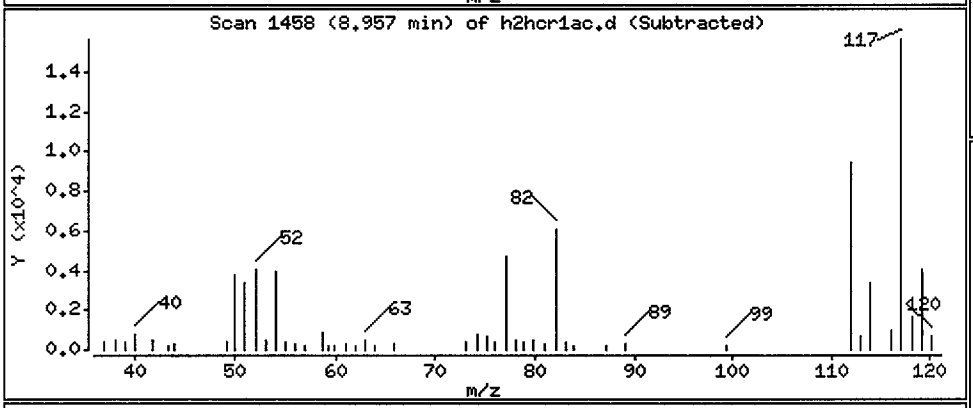
Column phase: J+W 624

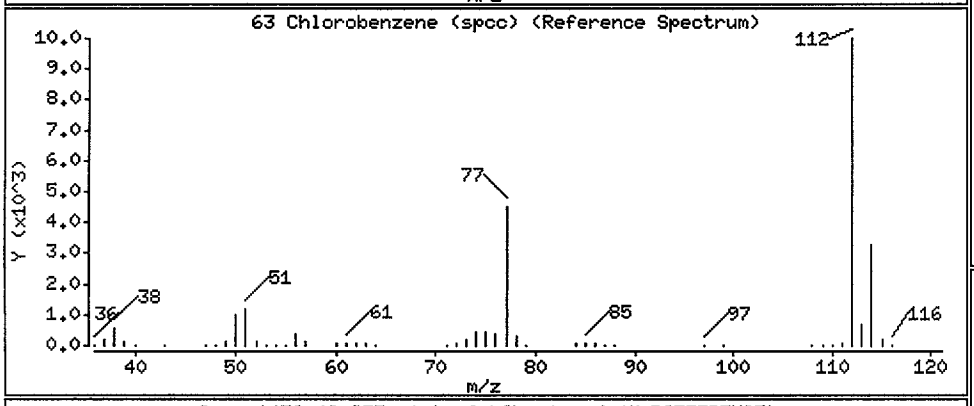
Column diameter: 0.18

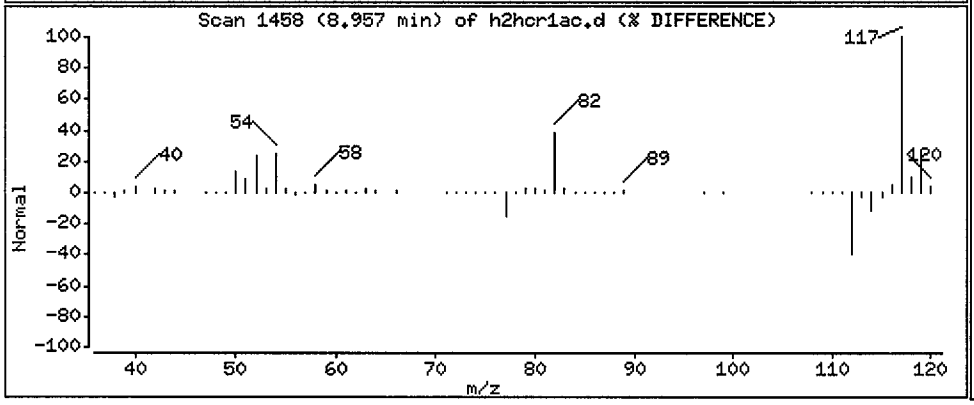
63 Chlorobenzene (spcc)

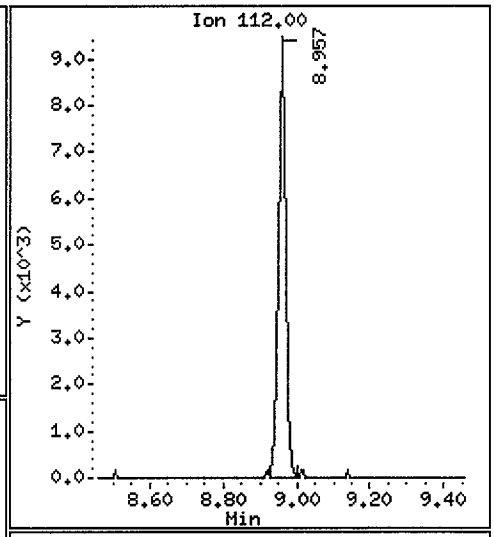
Concentration: 0.22250 ug/L

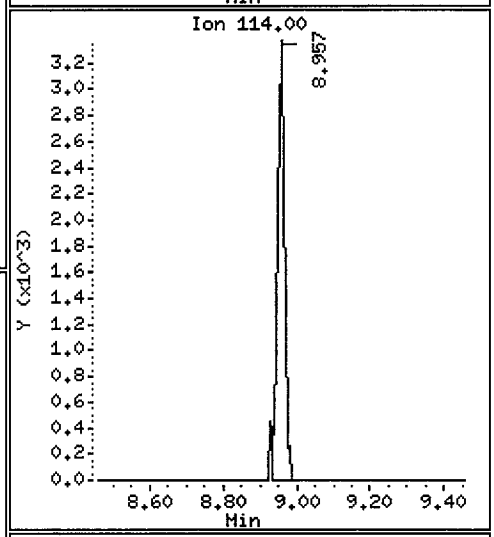


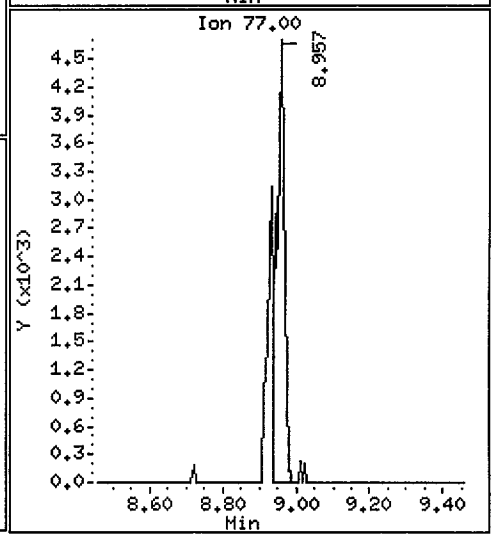












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

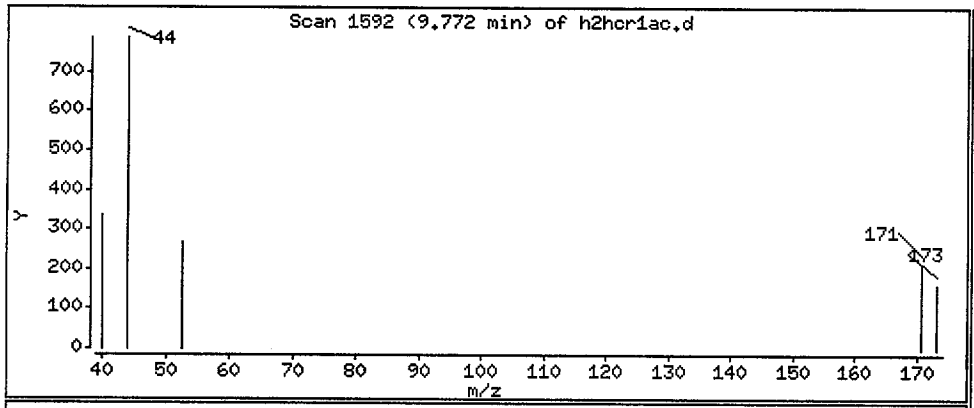
Operator: 063605

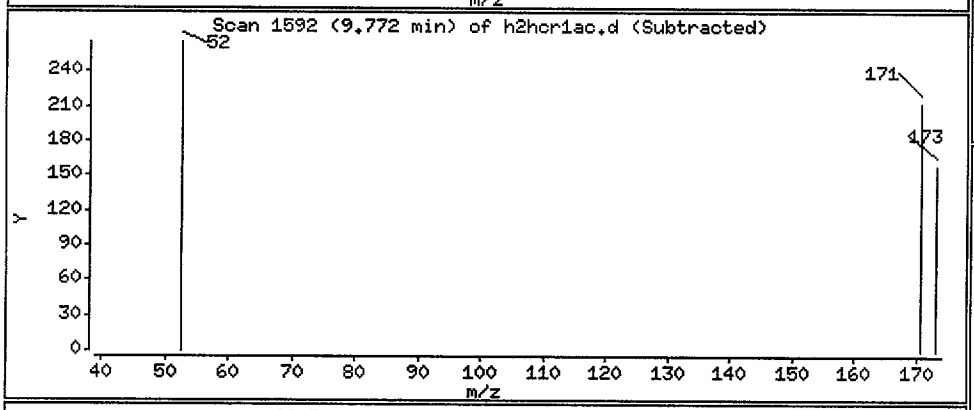
Column phase: J+W 624

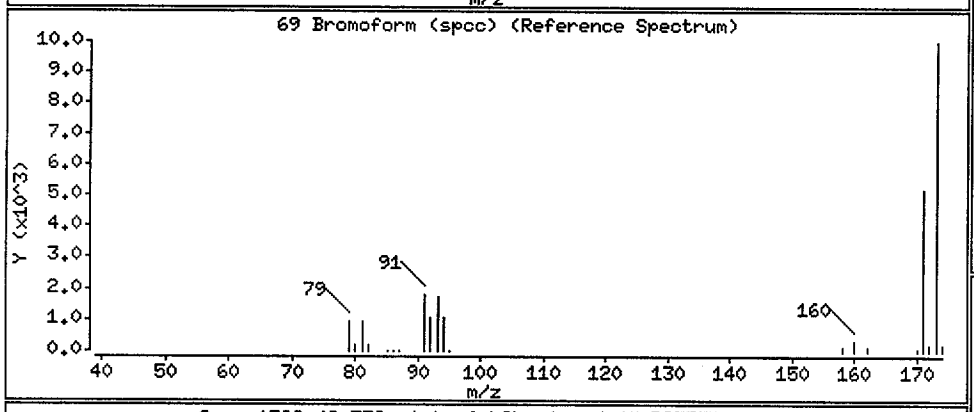
Column diameter: 0.18

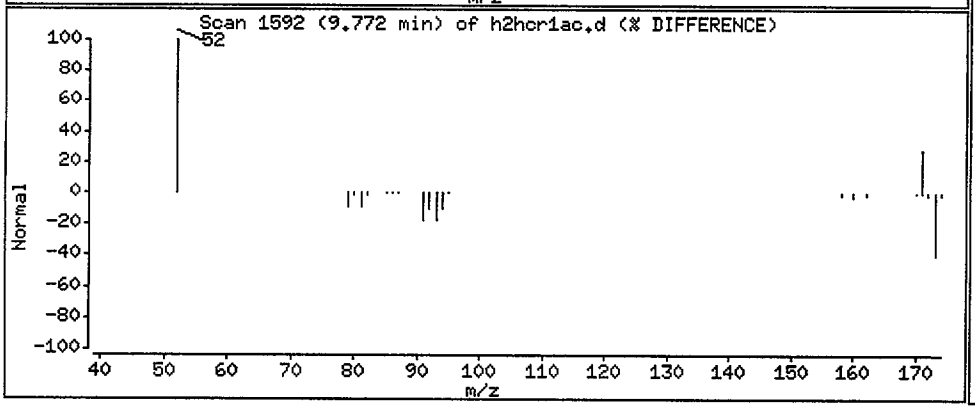
69 Bromoform (spcc)

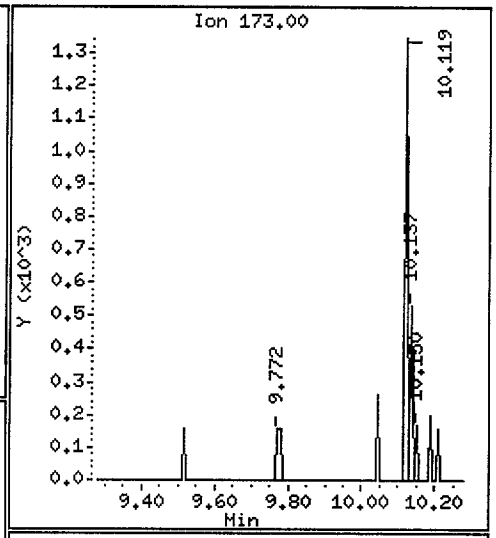
Concentration: 0.84370 ug/L

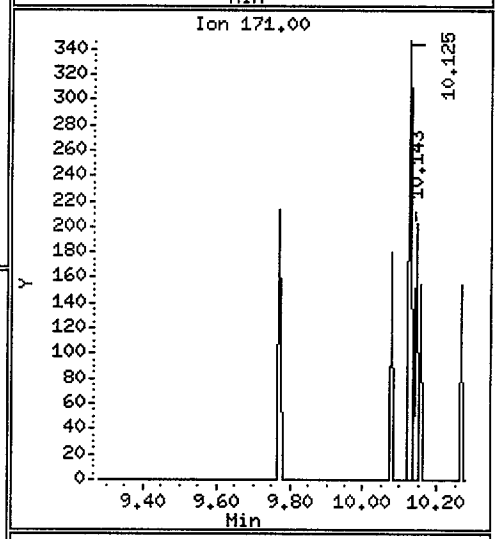


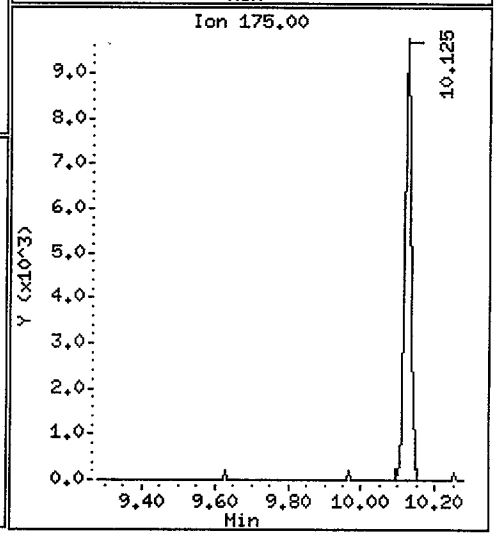












Data File: /chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

Purge Volume: 25.0

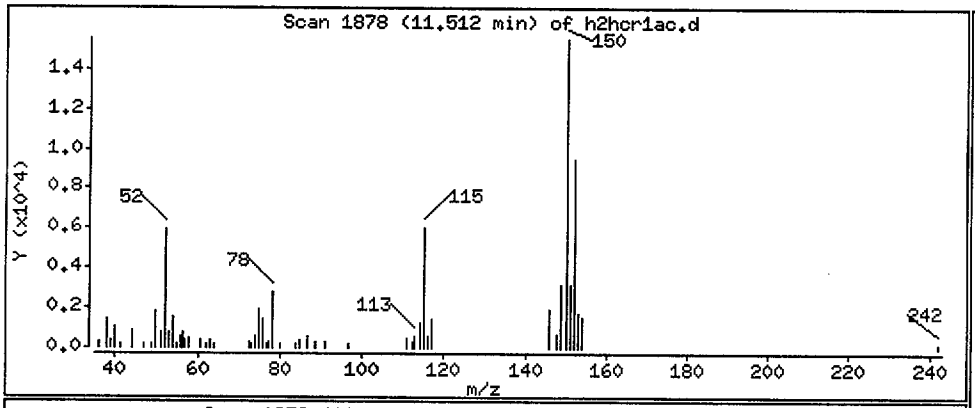
Operator: 063605

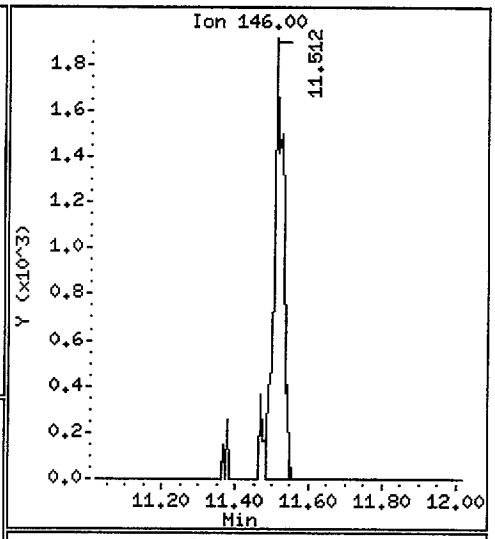
Column phase: J+W 624

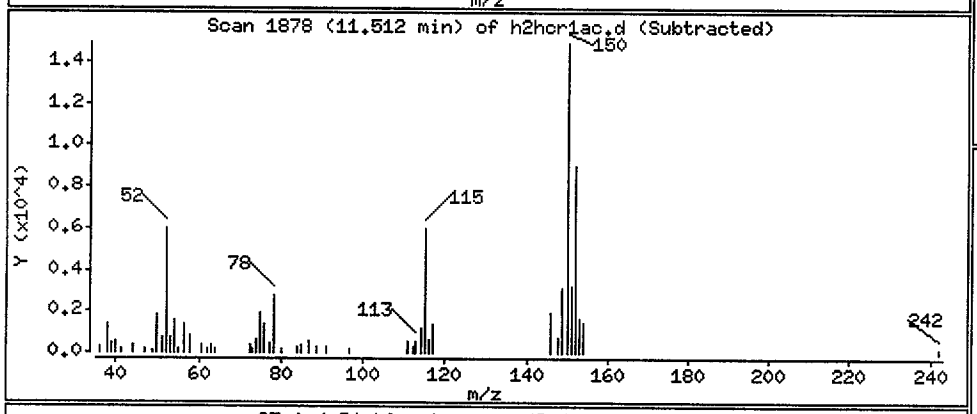
Column diameter: 0.18

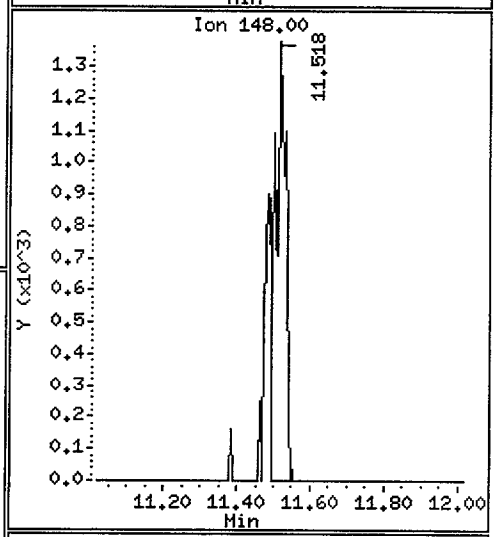
85 1,4-Dichlorobenzene

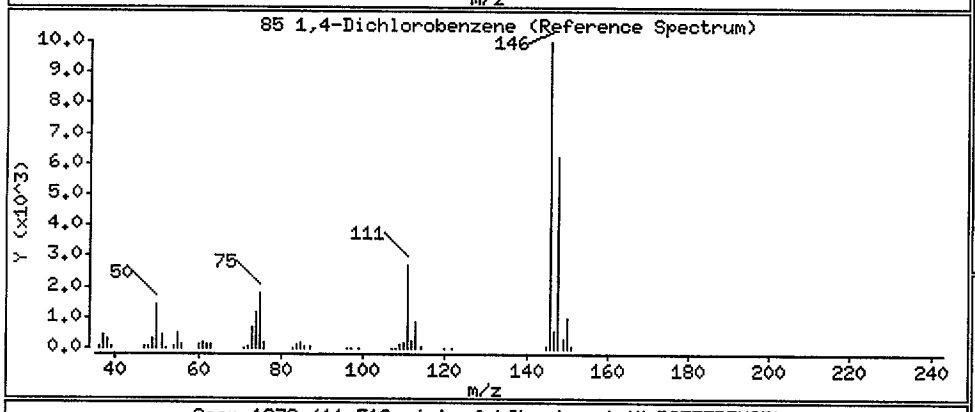
Concentration: 0.10087 ug/L

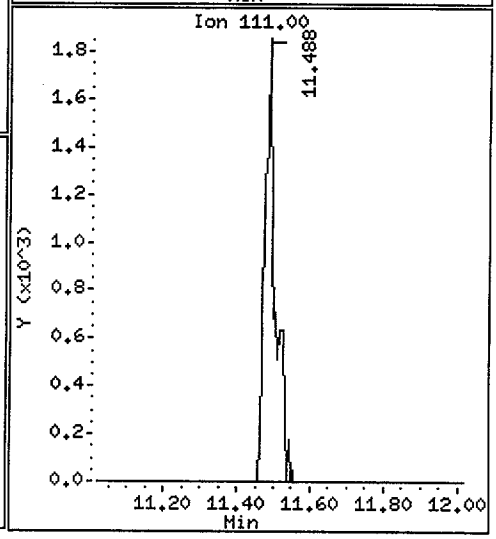


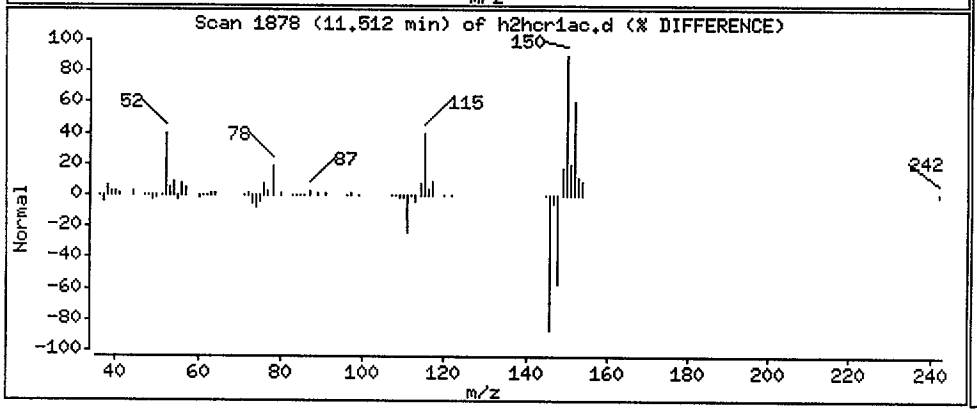












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Report Date: 07-Apr-2006 14:37

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d
Lab Smp Id: H2HCR1AC Client Smp ID: G-3097-R3-VOST COND
Inj Date : 05-APR-2006 20:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HCR1AC,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: SAMPLE DUPLICATE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.666	991343	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.909	977037	9.85569071	9.8557	5	NIST05.1	80	1

AV

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hcr1ac.d

Date : 05-APR-2006 20:33

Client ID: G-3097-R3-VOST COND

Instrument: mz.i

Sample Info: H2HCR1AC,1,0,,

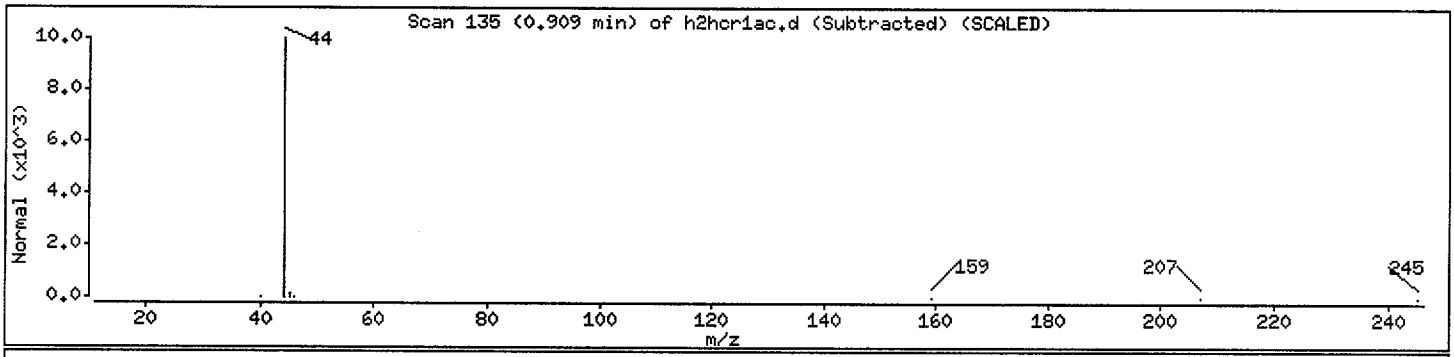
Purge Volume: 25.0

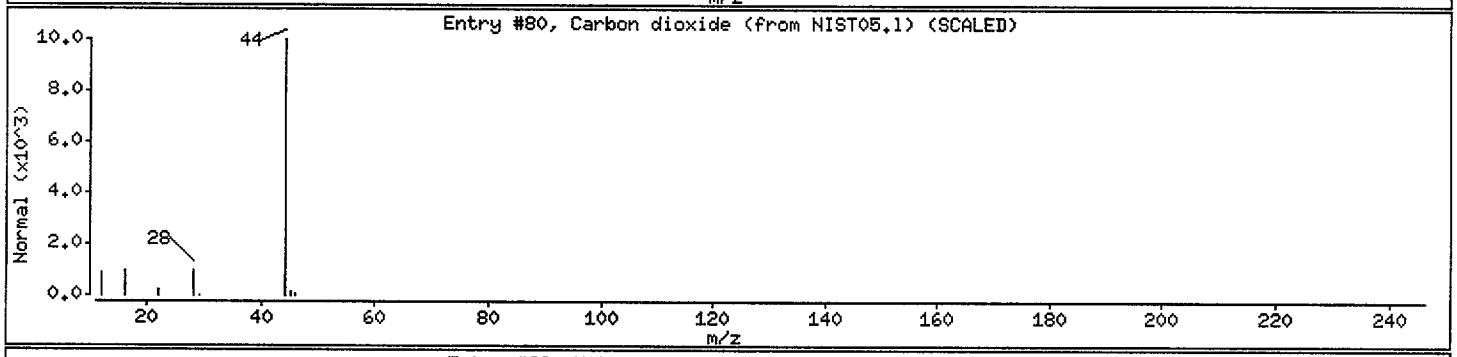
Operator: 063605

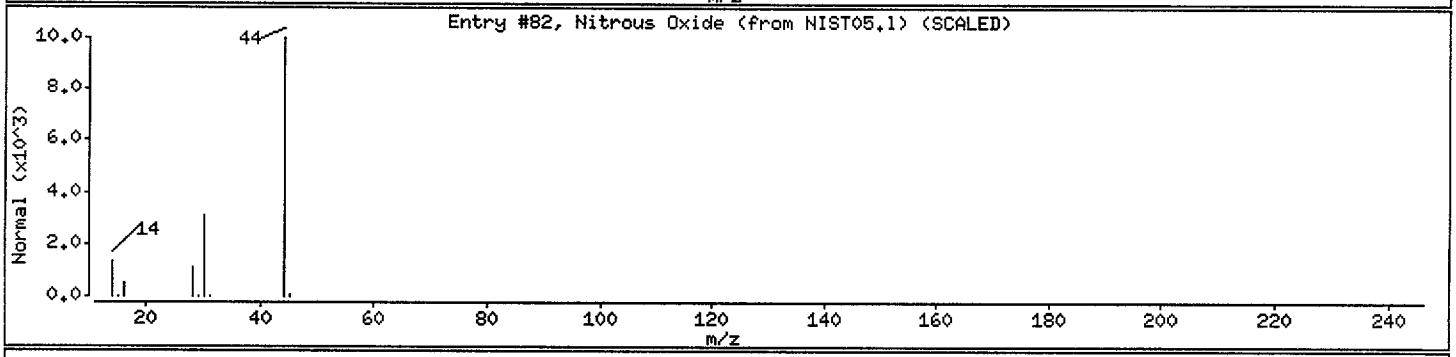
Column phase: J+W 624

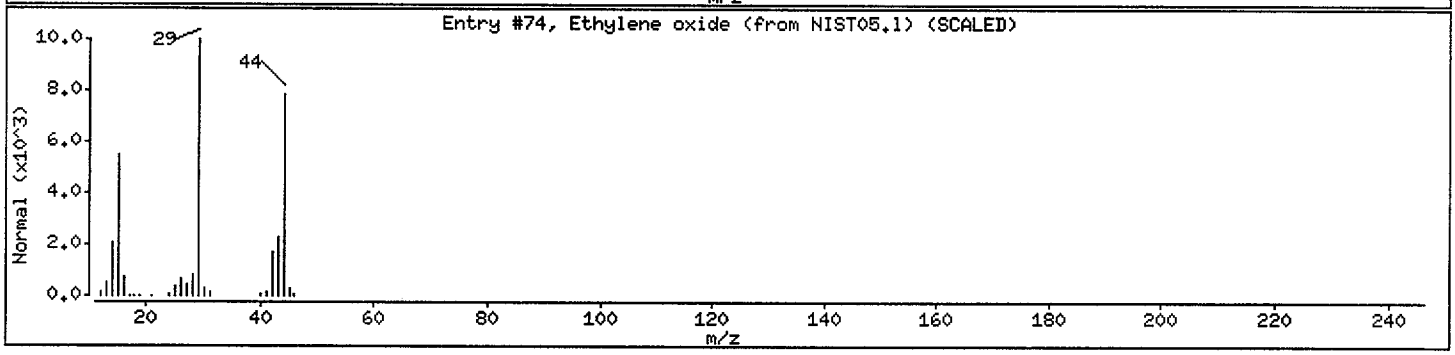
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	95	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-032 **Work Order #:** H2HCV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Lab Smp Id: H2HCV1AA
Client Smp ID: G-3098-R3-VOST TENA
Inj Date : 07-APR-2006 12:45
Operator : 22980
Inst ID: mz.i
Smp Info : H2HCV1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss
Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51
Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable — Local Compound Variable

04-07-06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	837980	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	183713	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	232280	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	137744	10.2584	0.25646
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	109855	9.46104	0.23652
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	734869	9.10389	0.22760
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	193326	8.25281	0.20632
15 Bromomethane	94	1.404	1.418	(0.247)	1389	0.98967	0.024742
22 Acetone	43	2.128	2.123	(0.375)	2629	3.76894	0.094223
23 *Iodomethane	142	2.195	2.184	(0.387)	451	0.54287	0.013572
27 Methylene Chloride	84	2.505	2.513	(0.441)	2295	0.16379	0.0040948
34 *Vinyl Acetate	86	3.126	3.407	(0.551)	172	0.15453	~~0.0038632~~
37 2-Butanone	43	4.190	4.186	(0.738)	1312	0.41326	~~0.010331~~
39 *THF	42	4.580	4.532	(0.807)	915	0.46060	0.011515
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	13507	0.77192	~~0.019298~~
53 4-Methyl-2-pentanone	43	7.469	7.386	(1.316)	5842	0.79834	~~0.019958~~

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
54 Toluene (ccc)	91	7.530	7.532	(0.843)	5349	0.05117	0.0012792
55 trans-1,3-Dichloropropene	75	7.469	7.793	(0.836)	93	0.63088	~~0.015772~~
69 Bromoform (spcc)	173	10.109	9.782	(1.131)	228	0.87920	~~0.021980~~

JW 4.14.06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcv1aa.d
Lab Smp Id: H2HCV1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3098-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	837980	-12.03
2 Chlorobenzene-d5	164101	82050	328202	183713	11.95
3 1,4 Dichlorobenze	204390	102195	408780	232280	13.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 07-Apr-2006 13:03

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCV1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3098-R3-VOST TENA
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

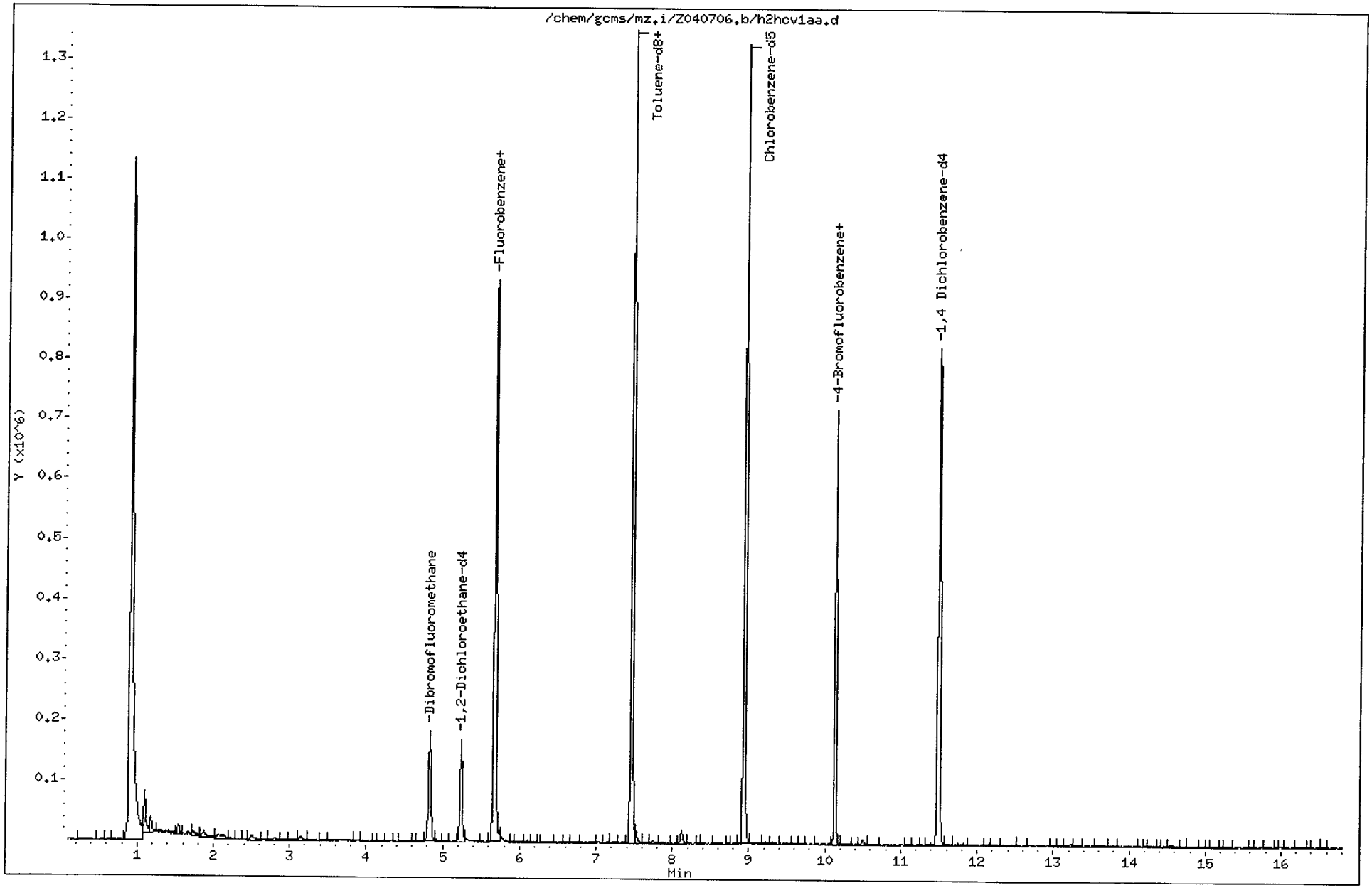
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25646	102.58	50-150
$ 5 1,2-Dichloroethane	0.25000	0.23652	94.61	50-150
$ 6 Toluene-d8	0.25000	0.22760	91.04	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20632	82.53	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Date : 07-APR-2006 12:45
Client ID: G-3098-R3-VOST TENA
Sample Info: H2HCV1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

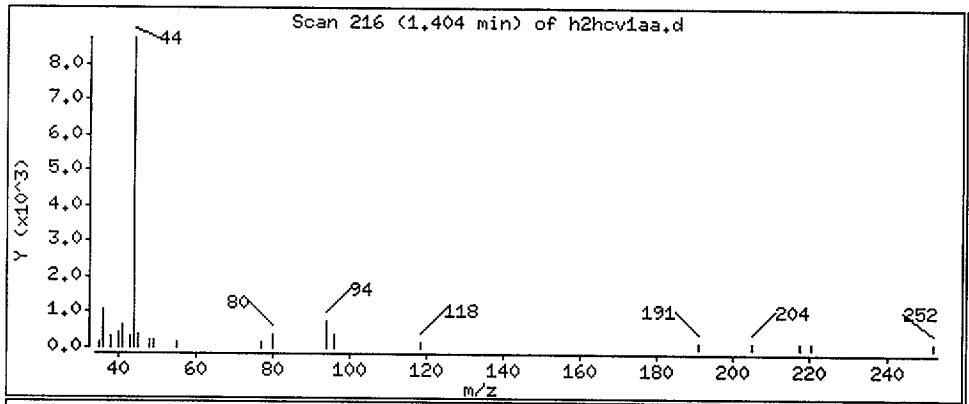
Operator: 22980

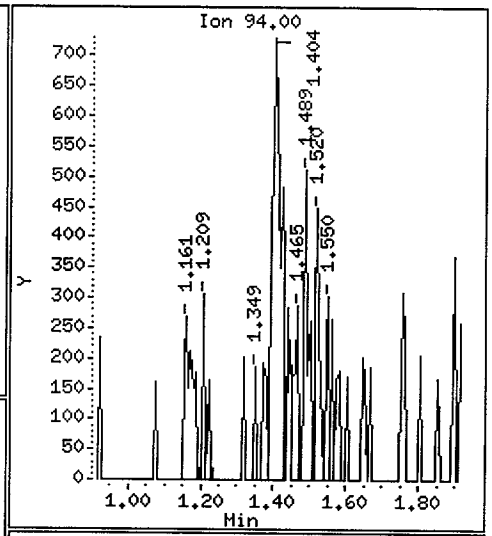
Column phase: J+W 624

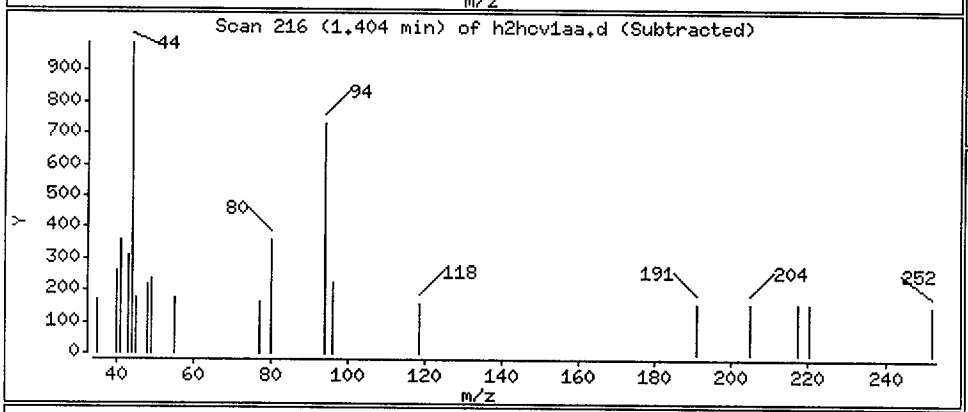
Column diameter: 0.18

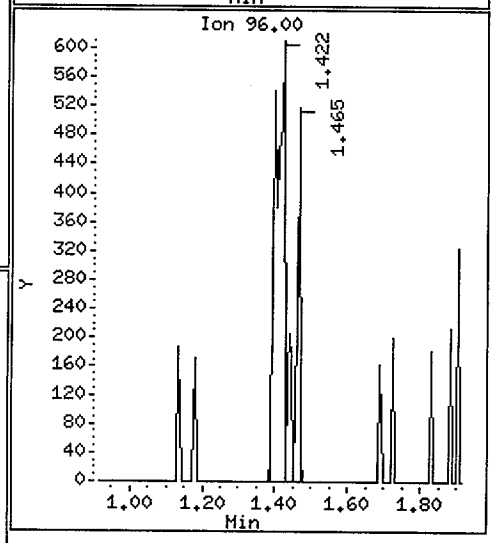
15 Bromomethane

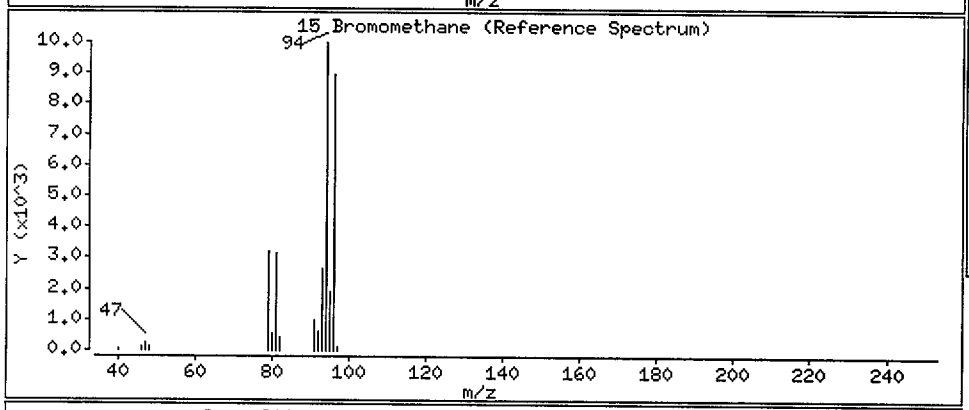
Concentration: 0.024742 ug

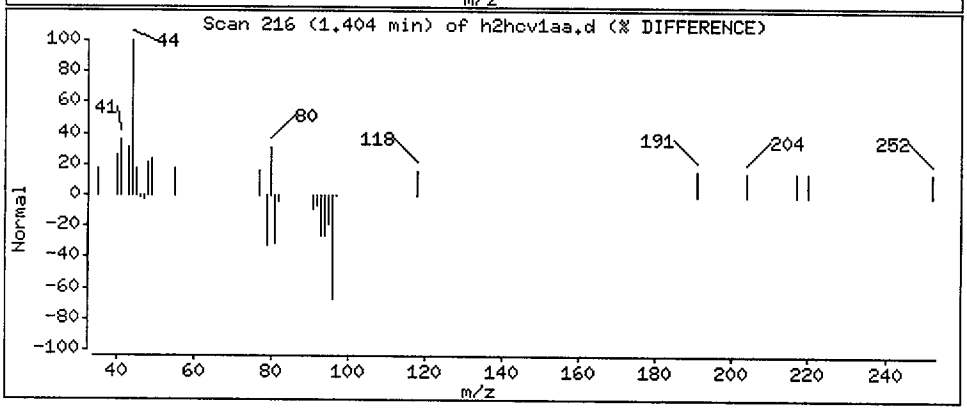












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

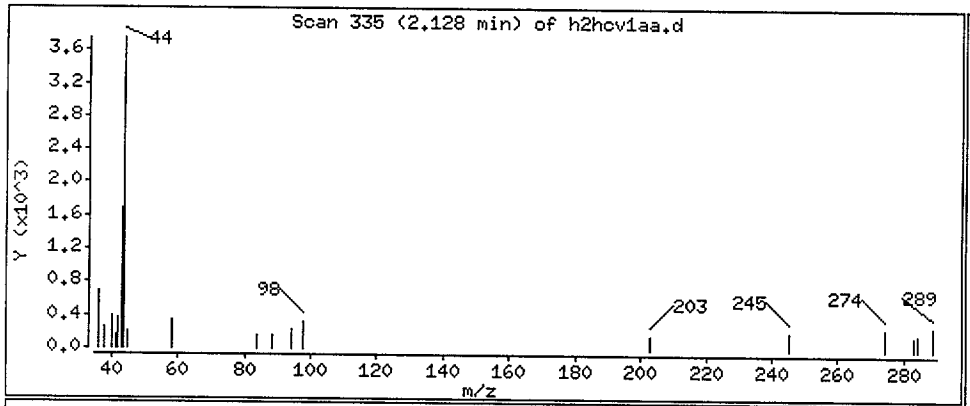
Operator: 22980

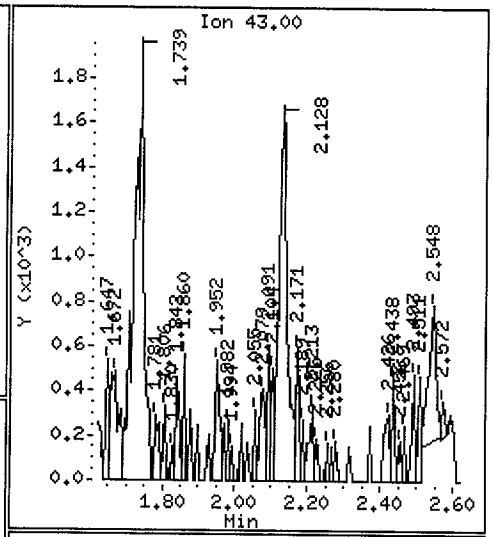
Column phase: J+W 624

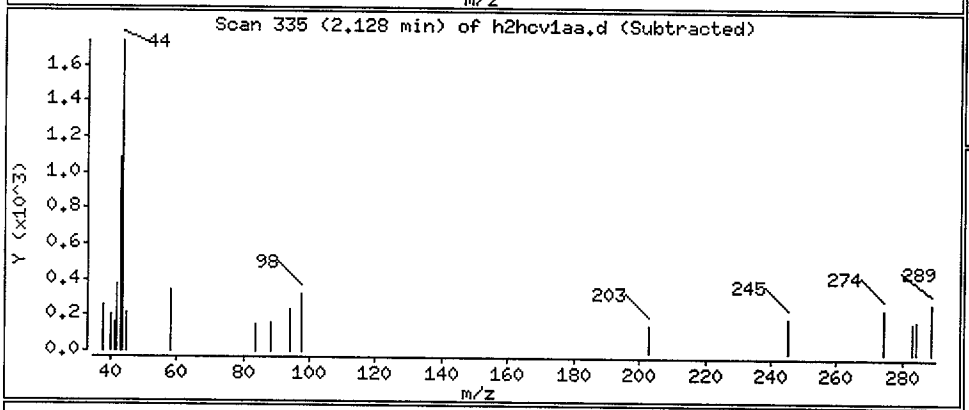
Column diameter: 0.18

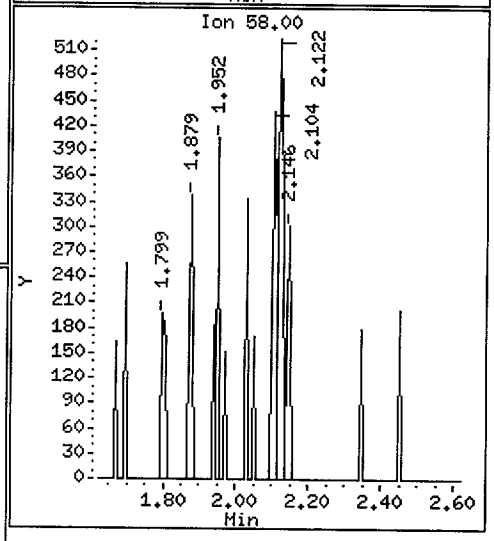
22 Acetone

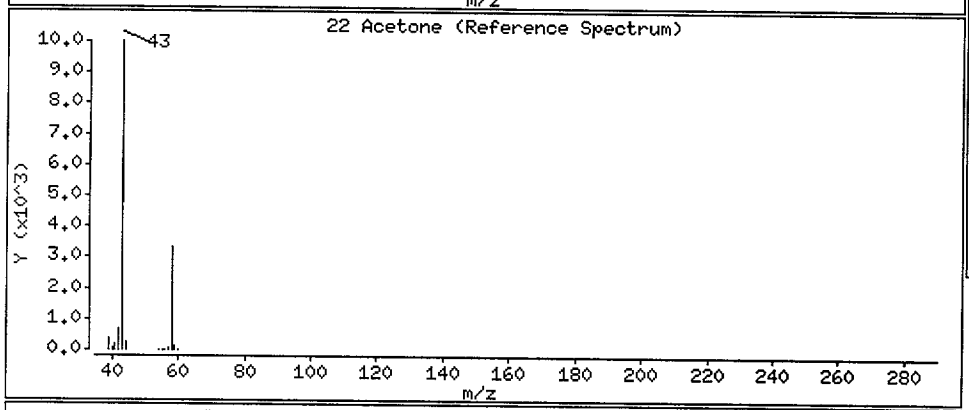
Concentration: 0.094223 ug

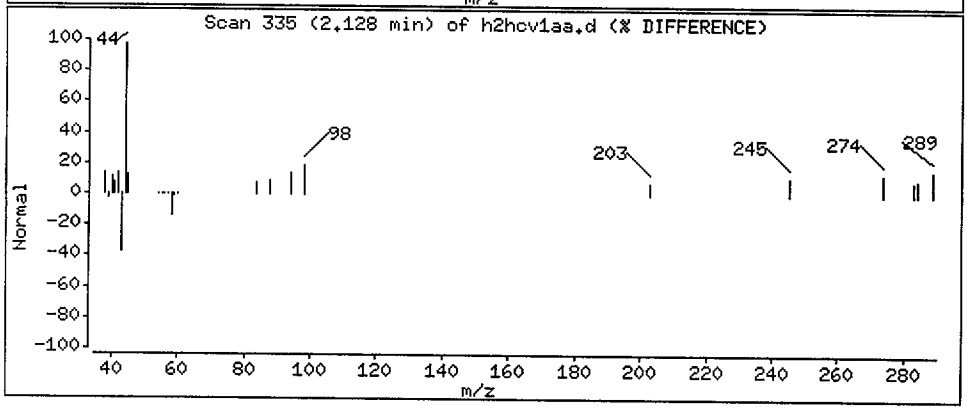












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

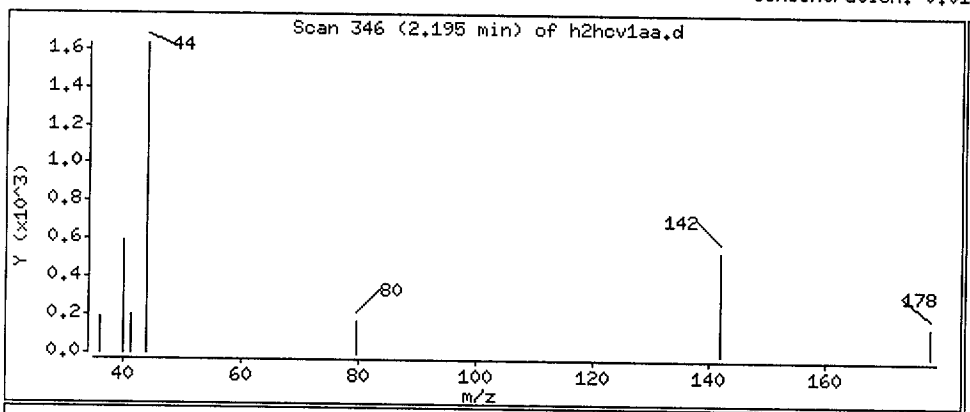
Operator: 22980

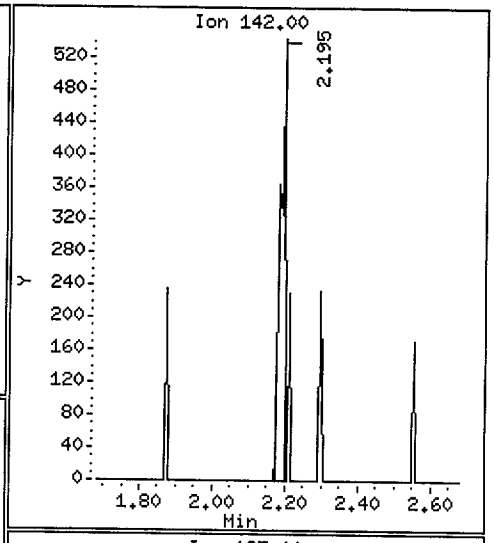
Column phase: J+W 624

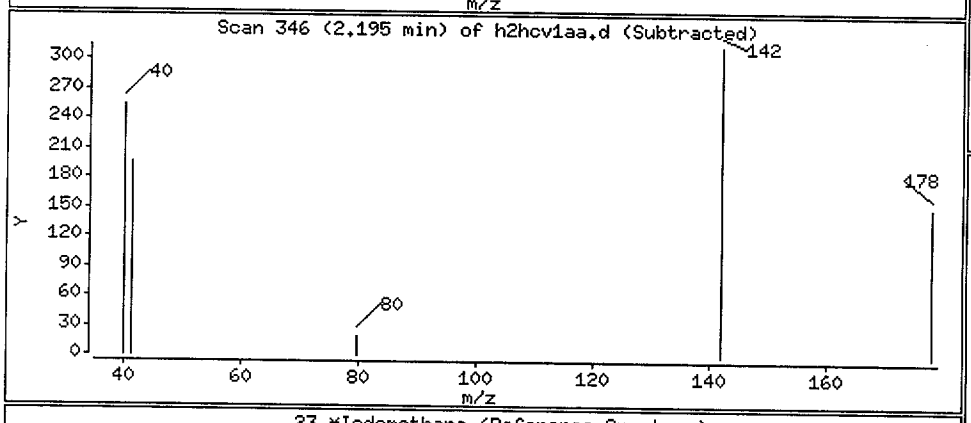
Column diameter: 0.18

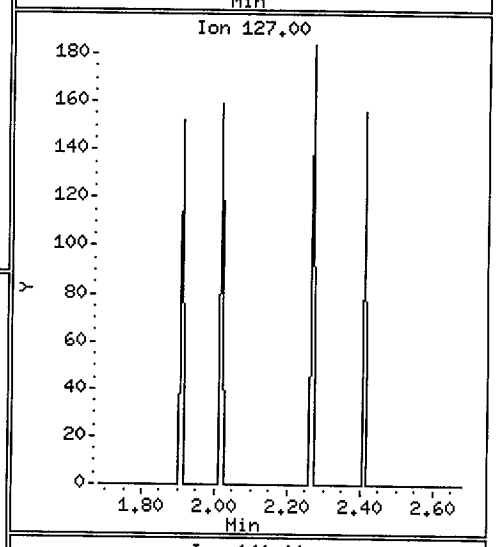
23 *Iodomethane

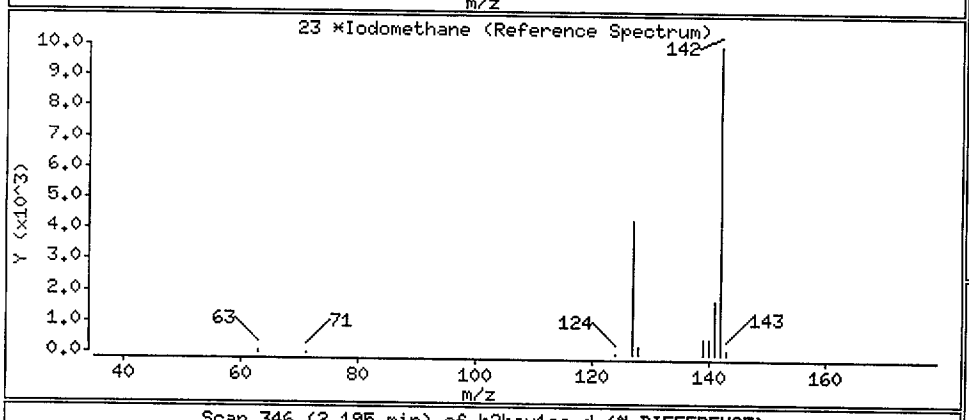
Concentration: 0.013572 ug

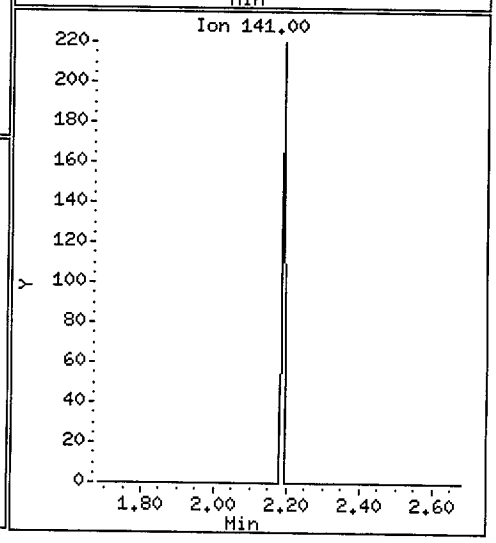


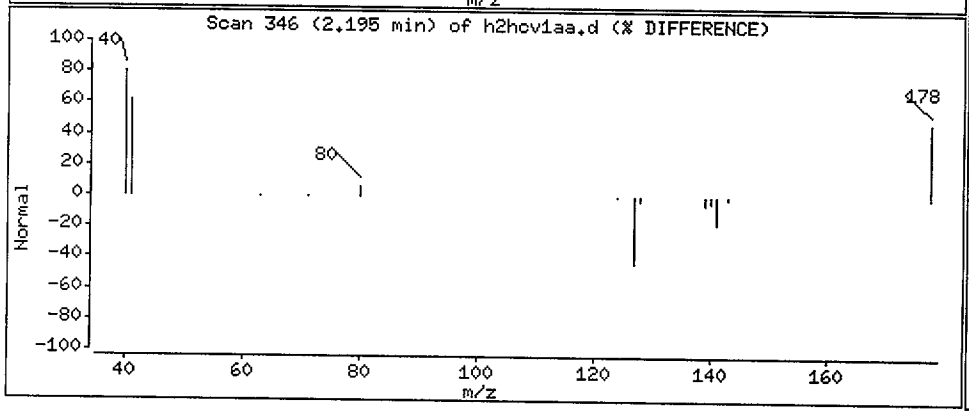












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

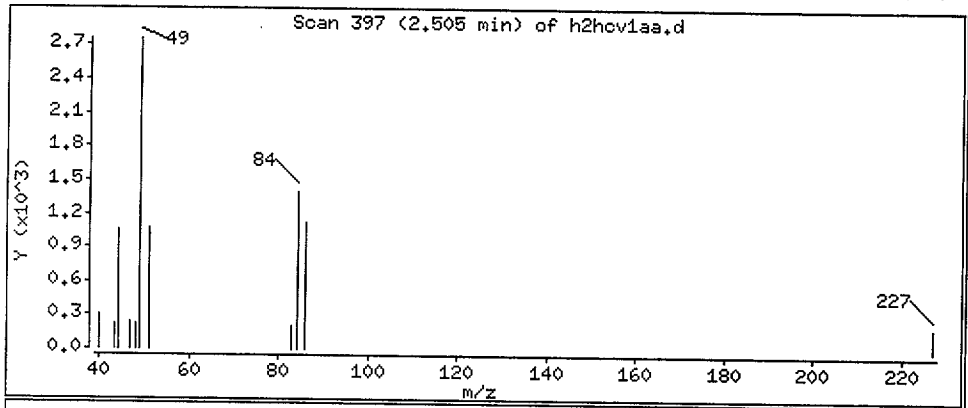
Operator: 22980

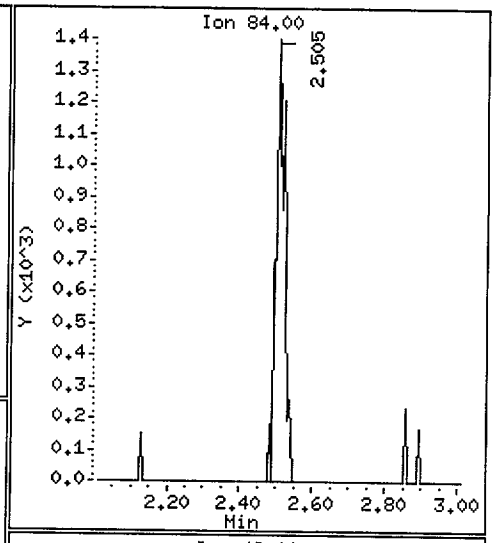
Column phase: J+W 624

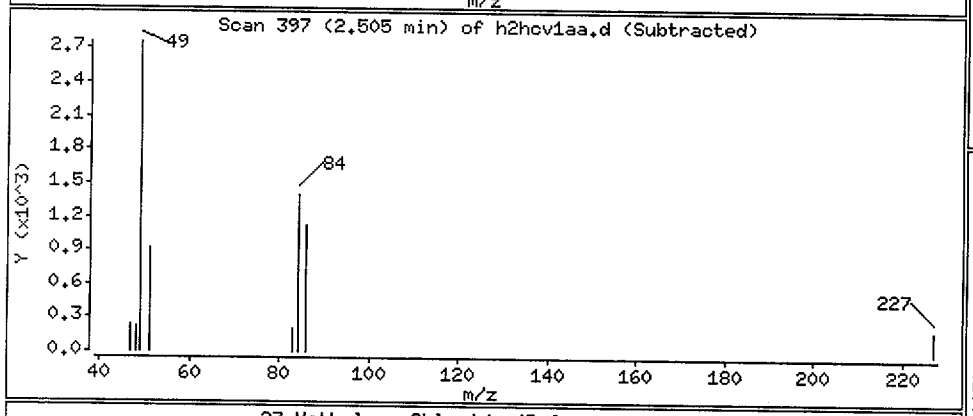
Column diameter: 0.18

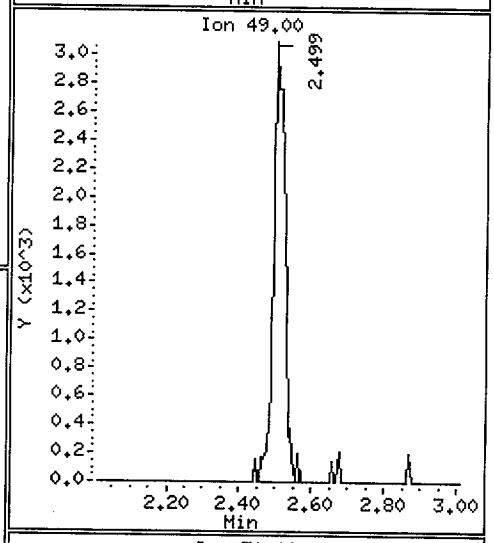
27 Methylene Chloride

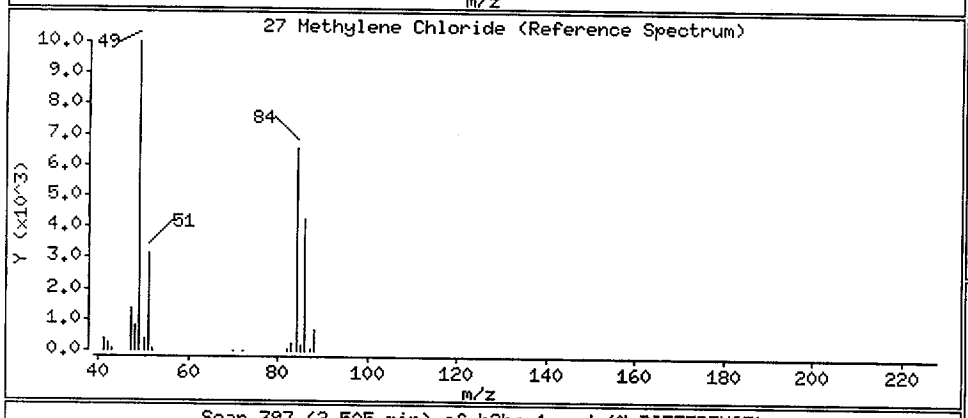
Concentration: 0.0040948 ug

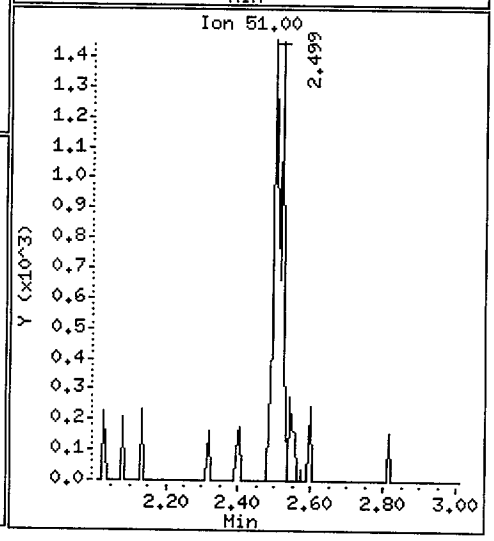


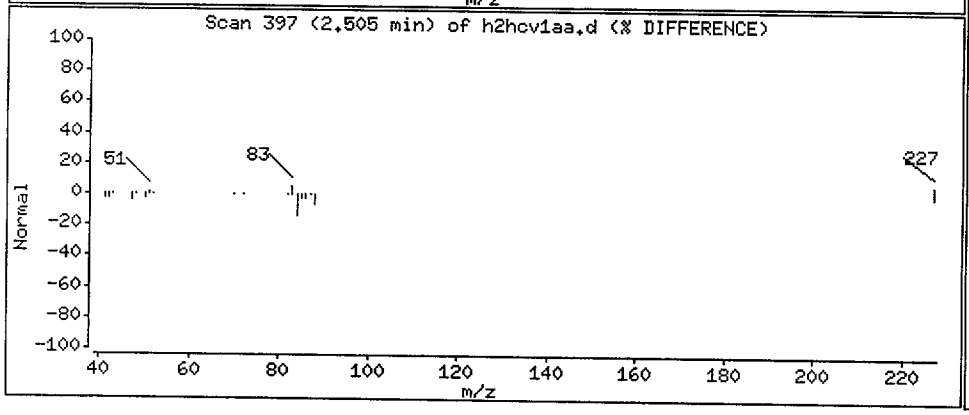












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

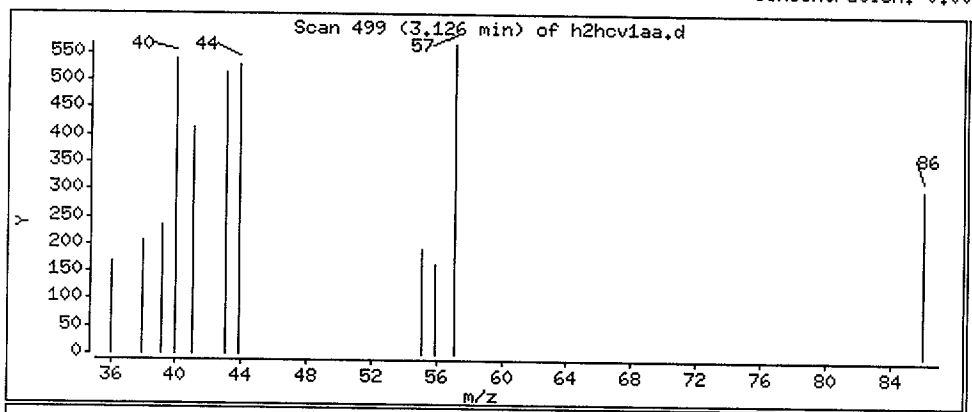
Operator: 22980

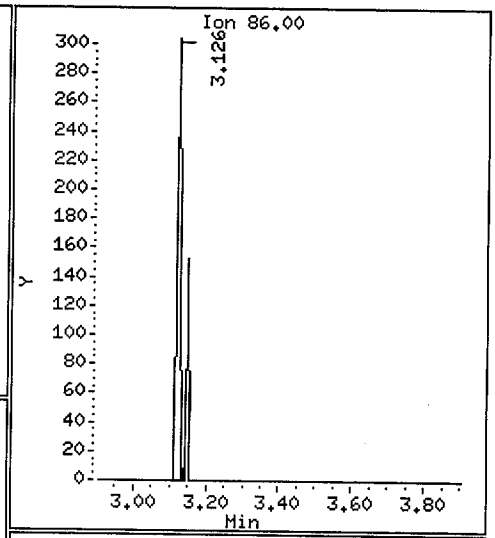
Column phase: J+W 624

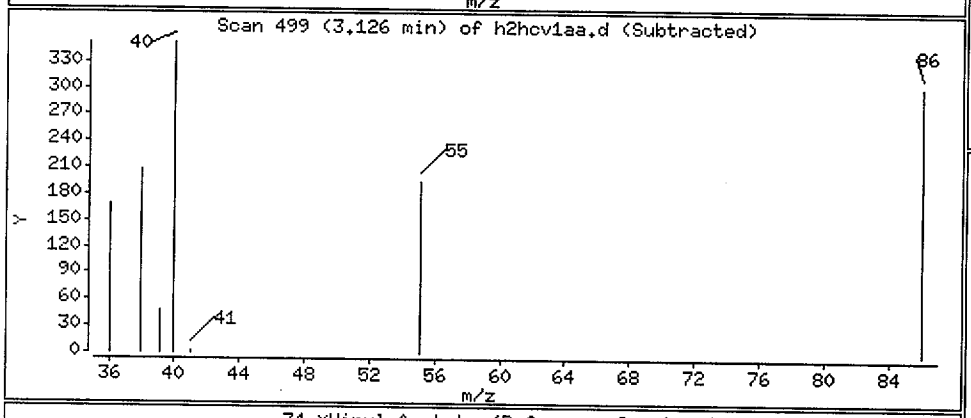
Column diameter: 0.18

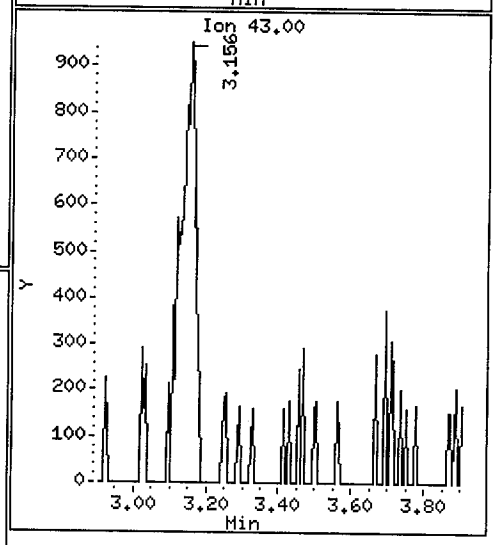
34 *Vinyl Acetate

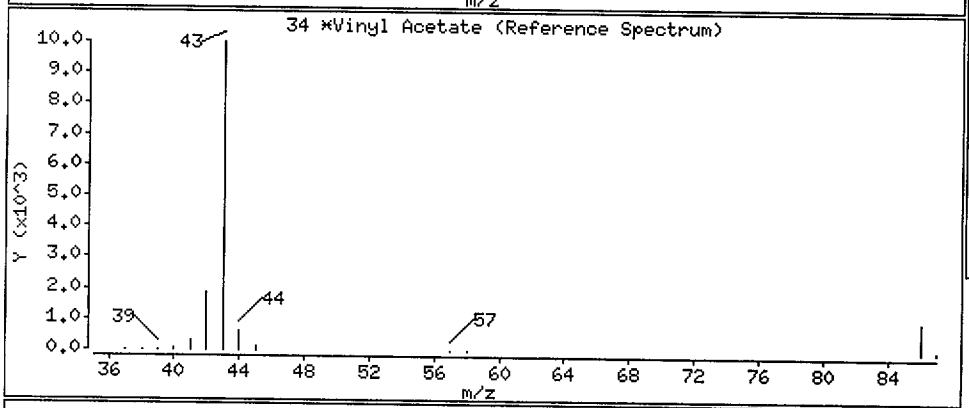
Concentration: 0.0038632 ug

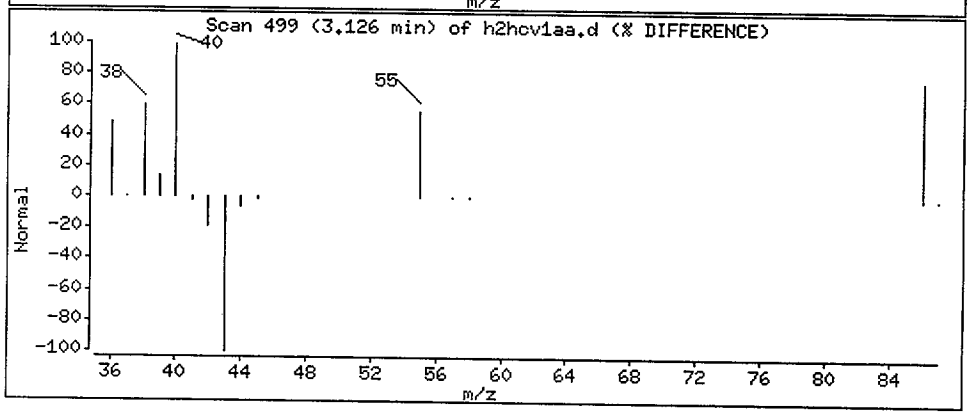












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

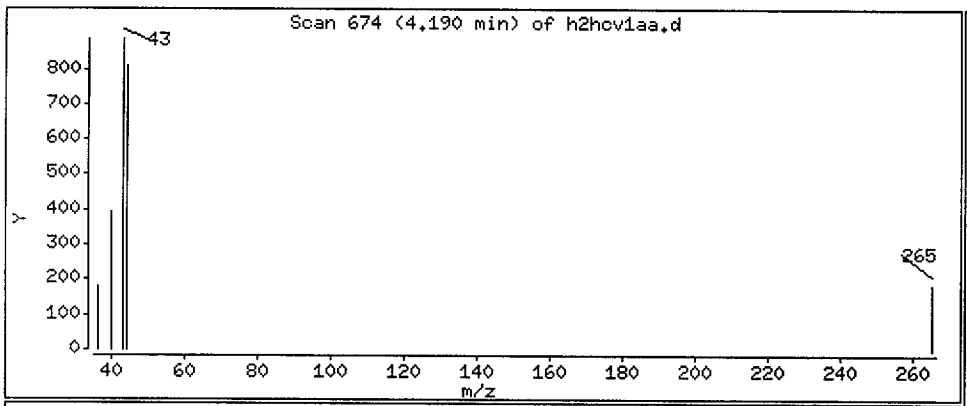
Operator: 22980

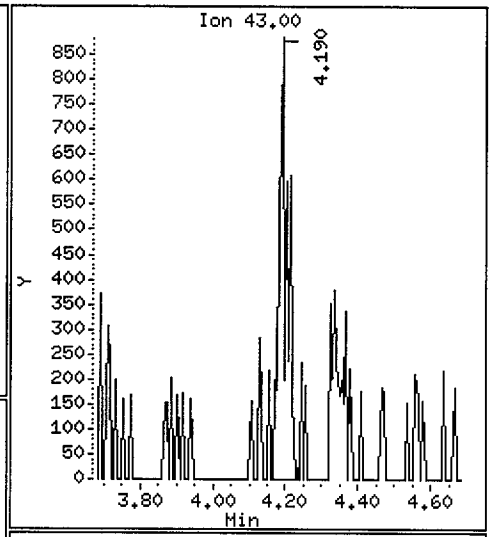
Column phase: J+W 624

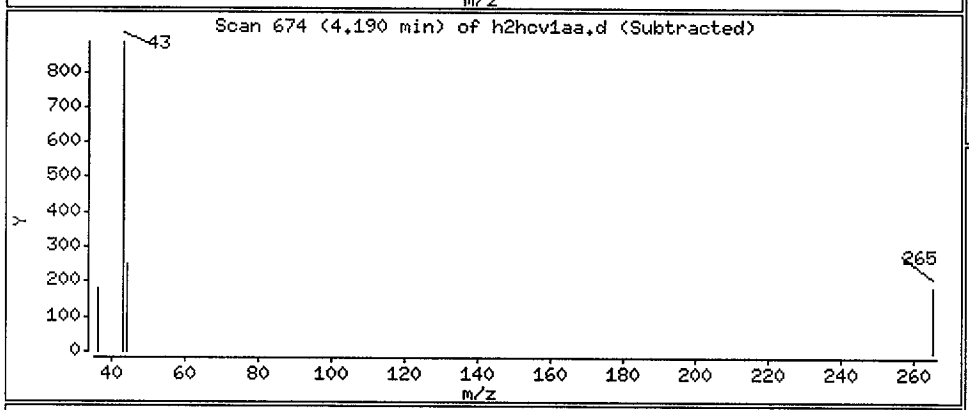
Column diameter: 0.18

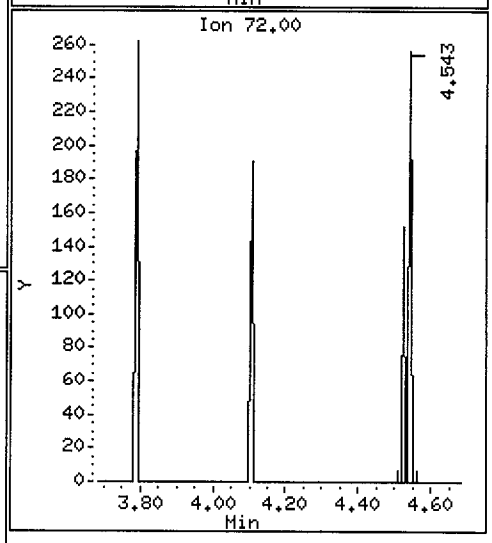
37 2-Butanone

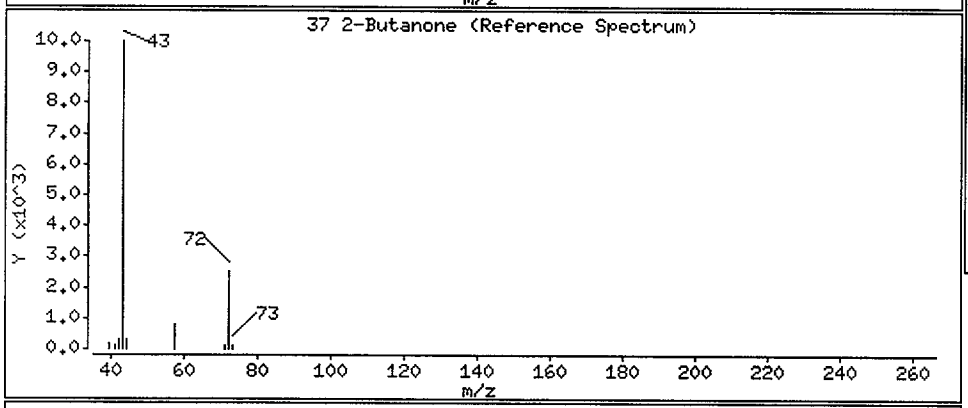
Concentration: 0.010331 ug

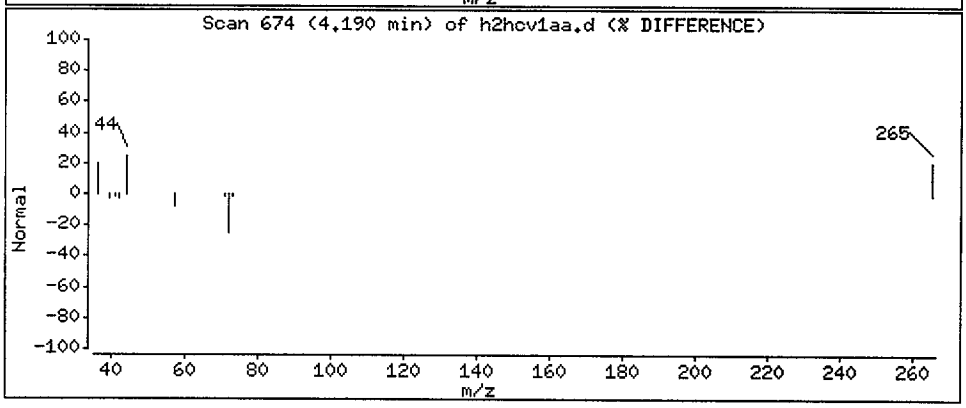












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

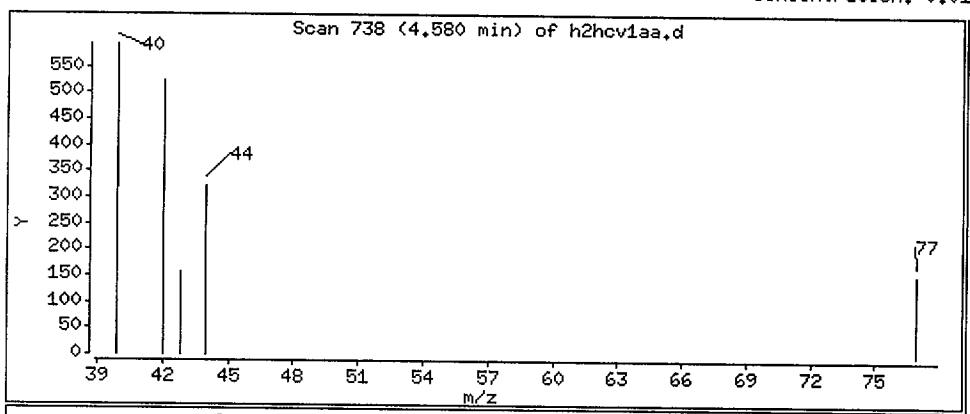
Operator: 22980

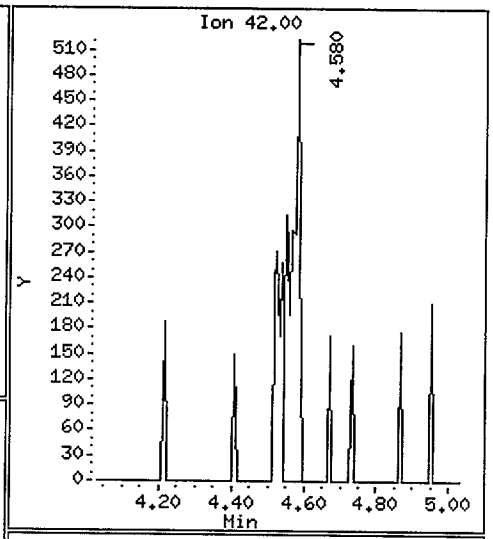
Column phase: J+W 624

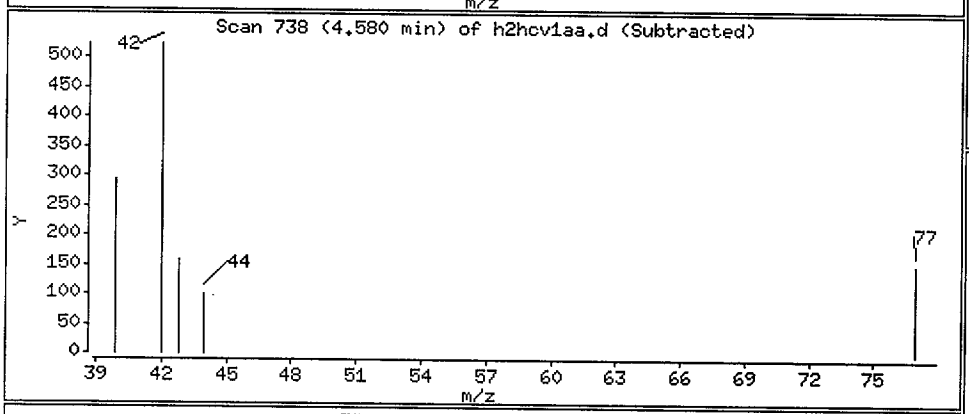
Column diameter: 0.18

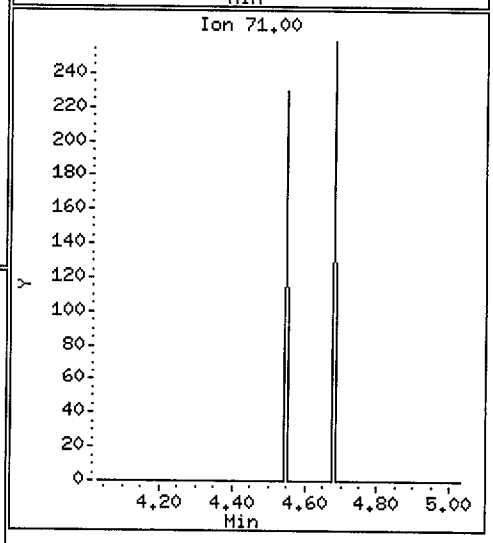
39 *THF

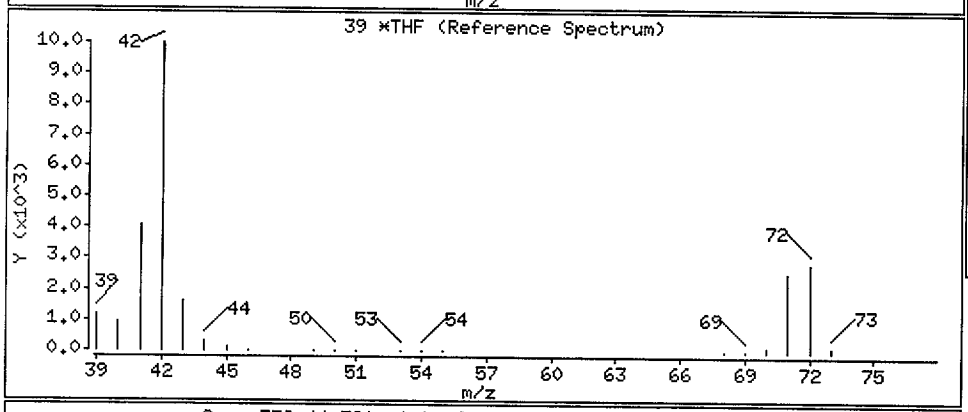
Concentration: 0.011515 ug

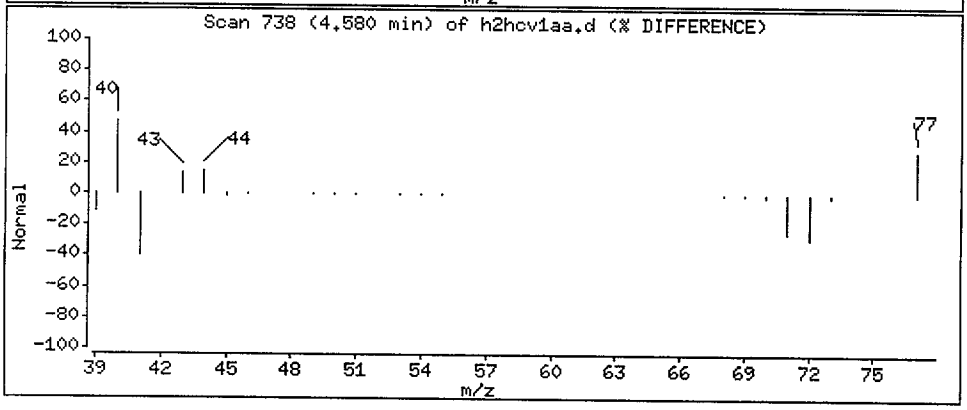












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

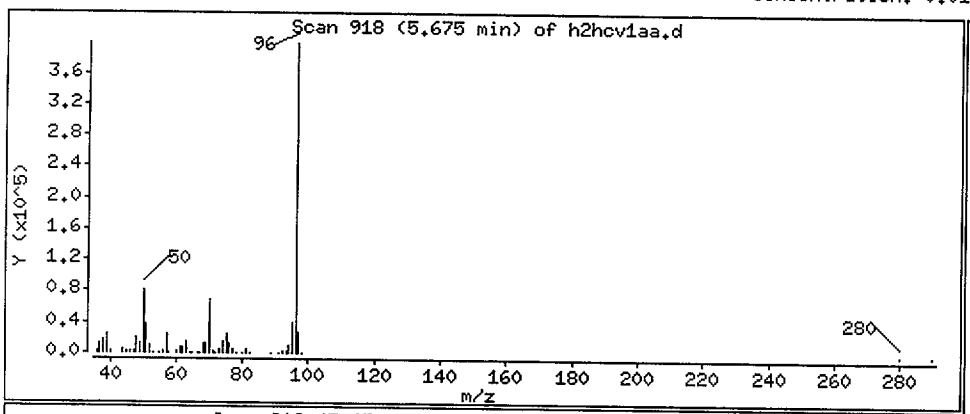
Operator: 22980

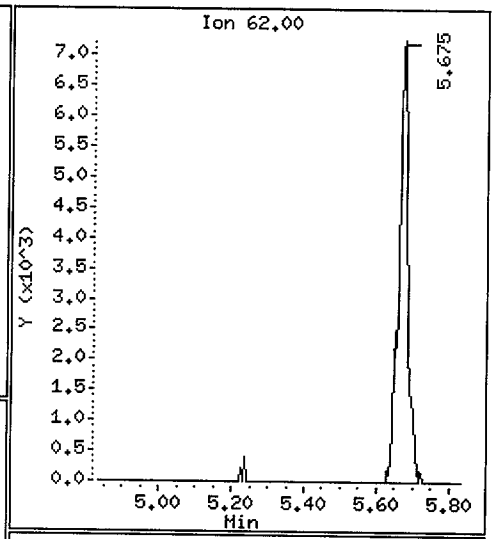
Column phase: J+W 624

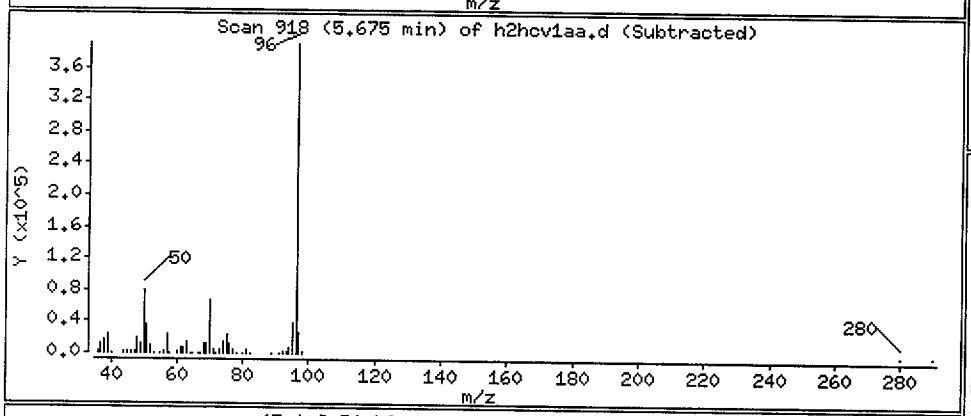
Column diameter: 0.18

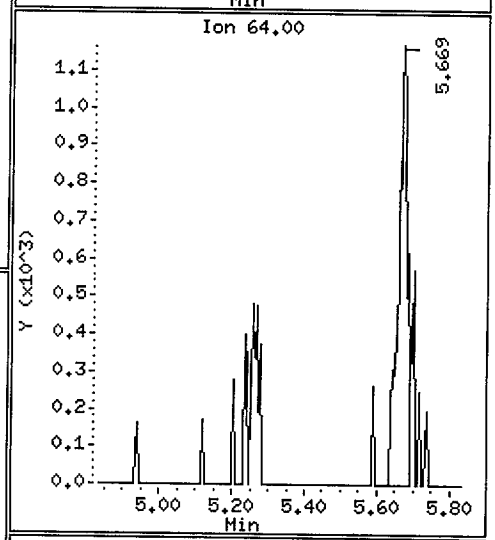
45 1,2-Dichloroethane

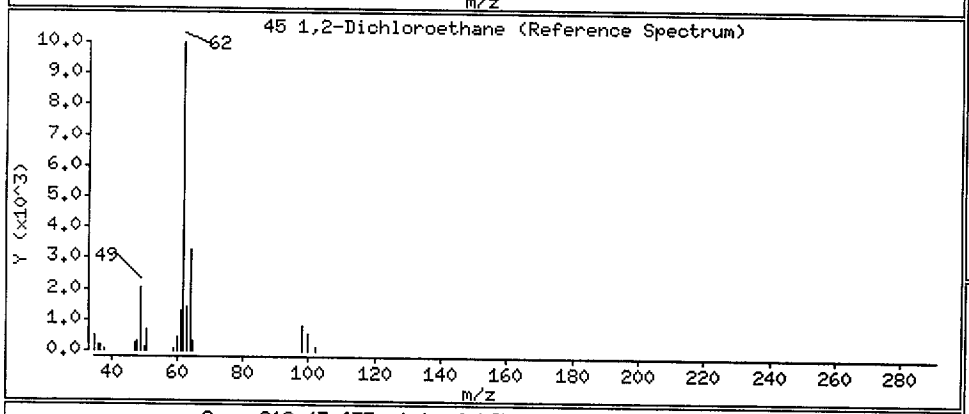
Concentration: 0.019298 ug

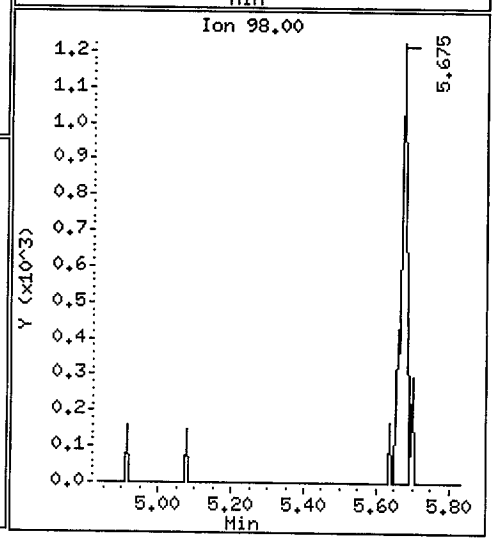


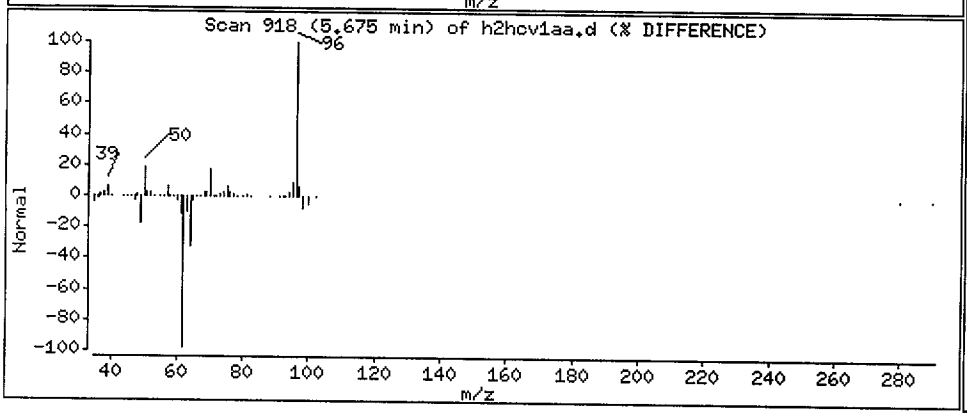












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

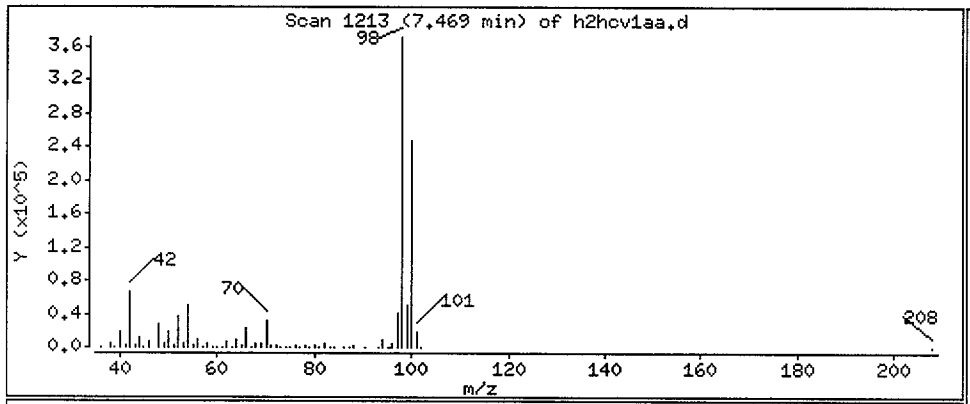
Operator: 22980

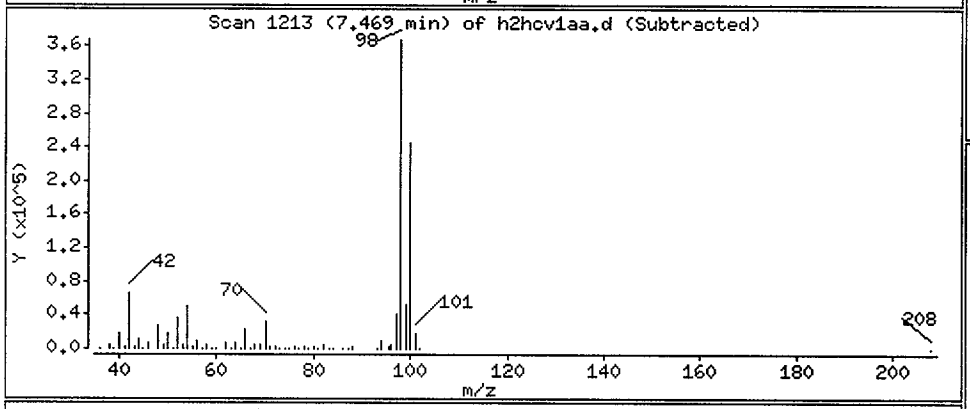
Column phase: J+W 624

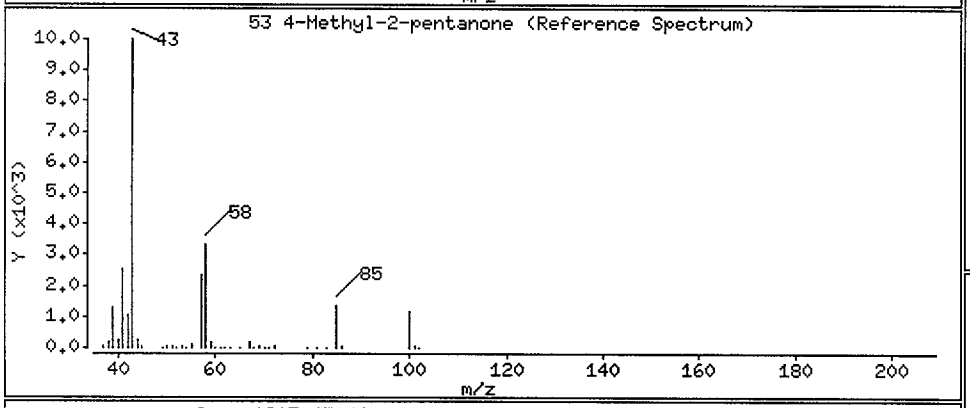
Column diameter: 0.18

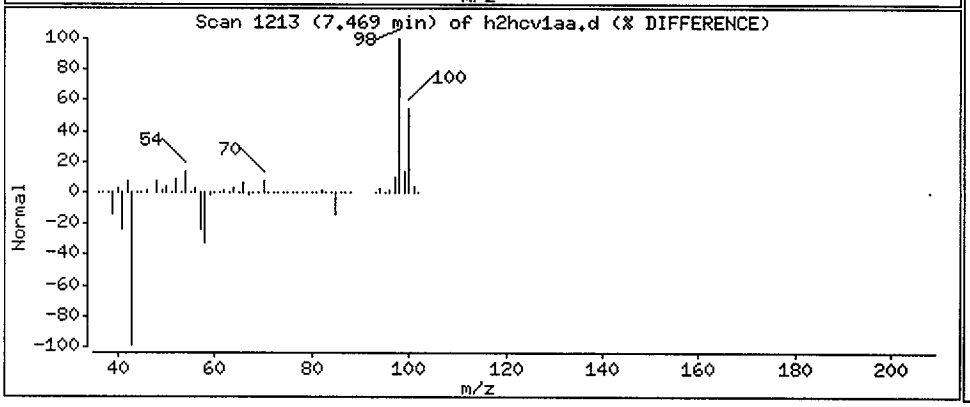
53 4-Methyl-2-pentanone

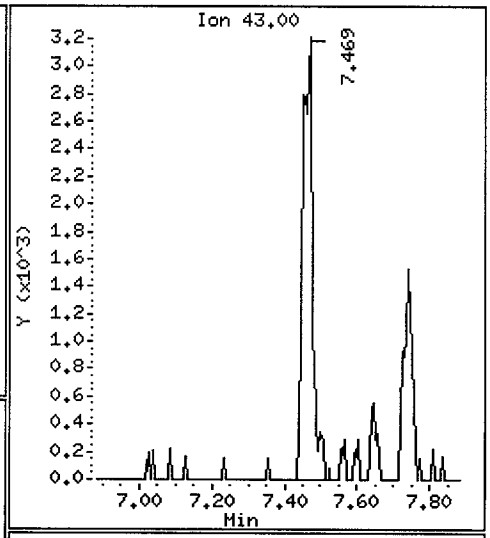
Concentration: 0.019958 ug

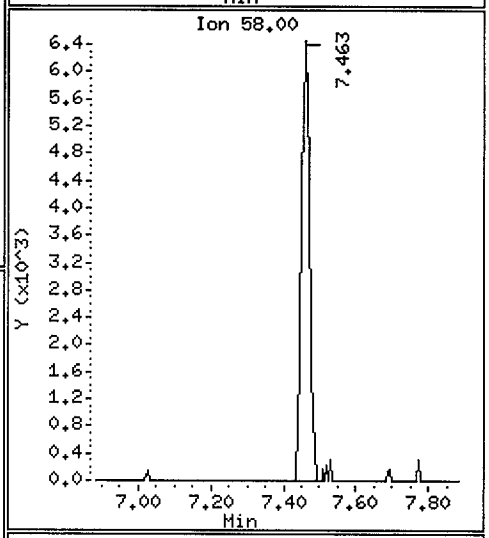


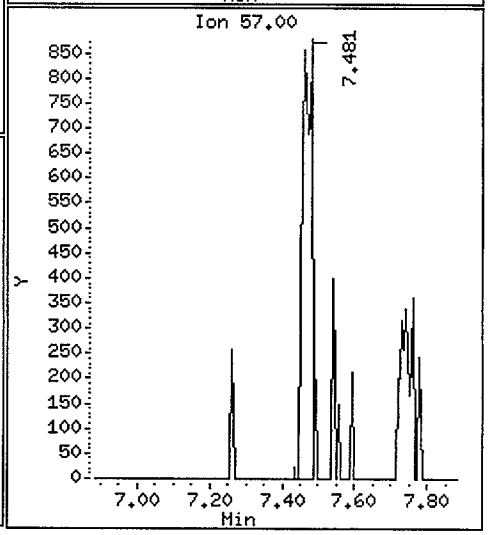












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

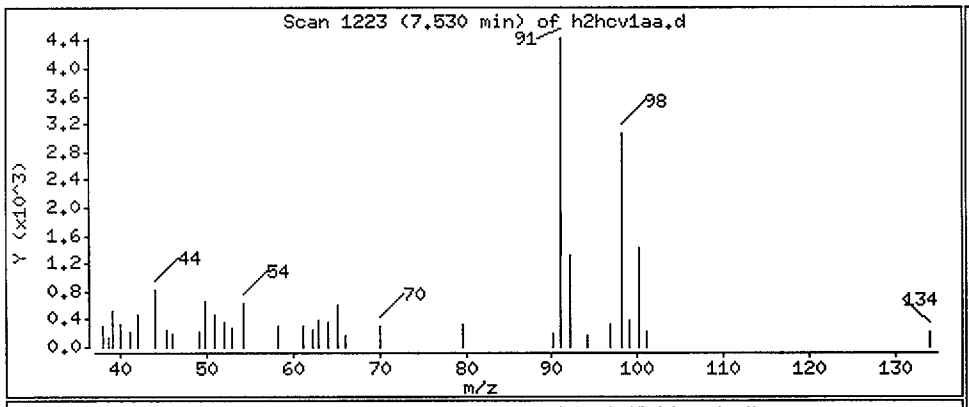
Operator: 22980

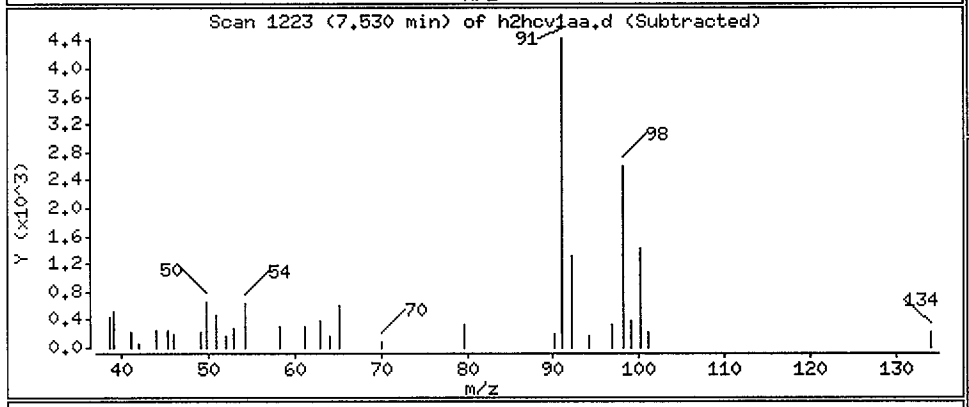
Column phase: J+W 624

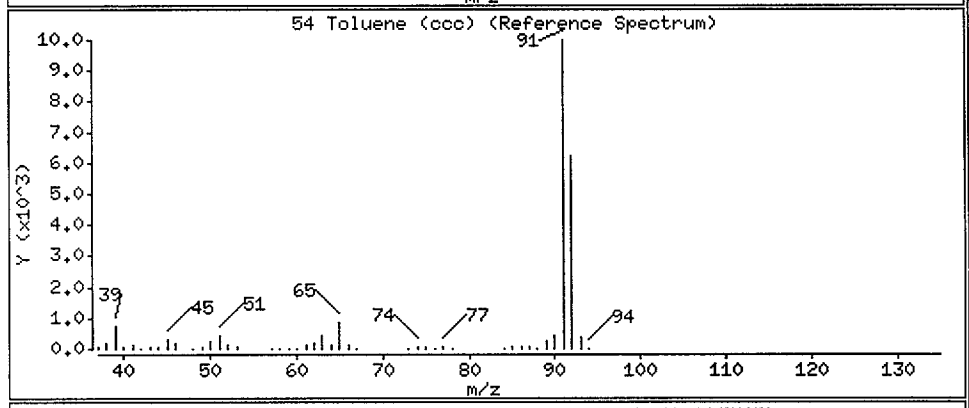
Column diameter: 0.18

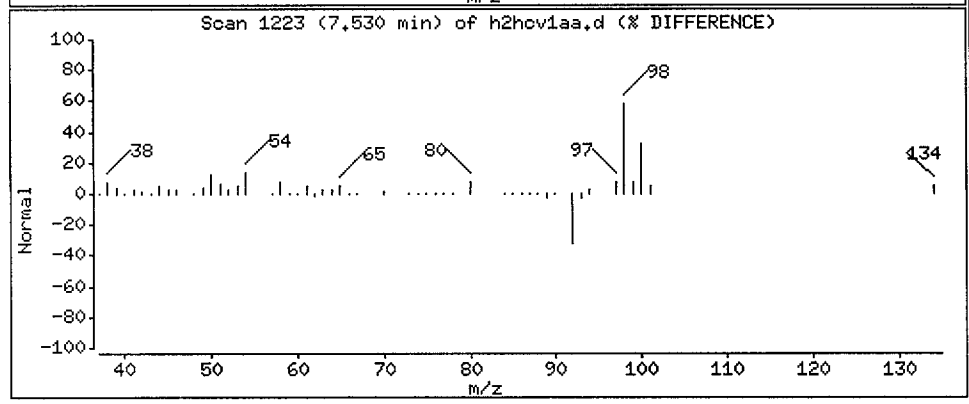
54 Toluene (ccc)

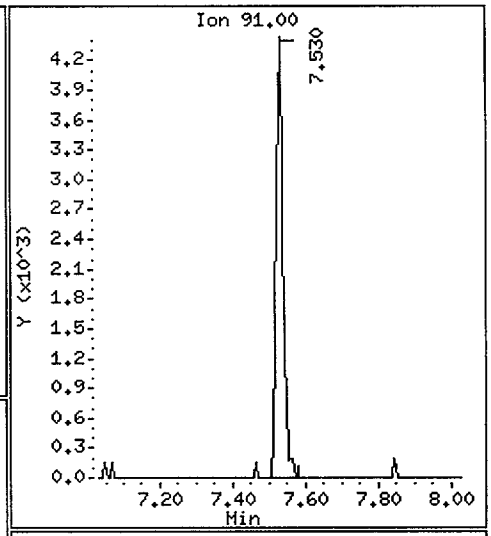
Concentration: 0.0012792 ug

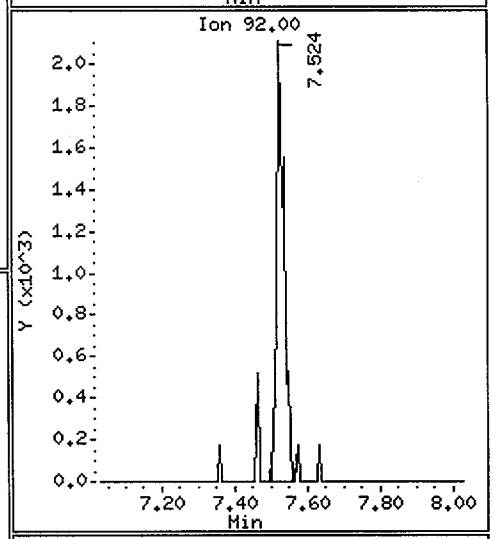


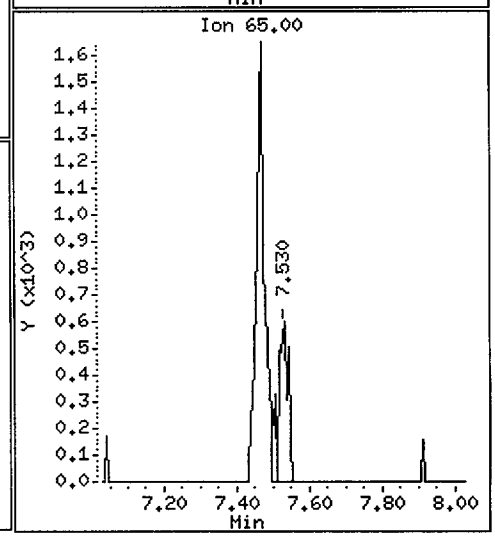












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

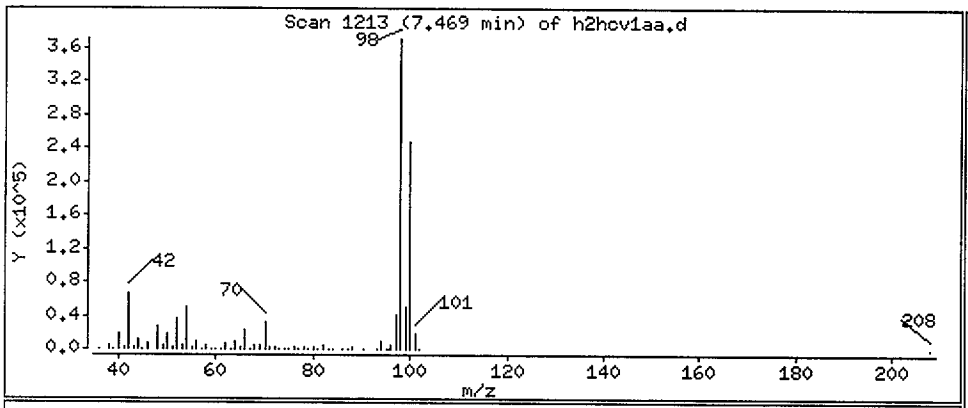
Operator: 22980

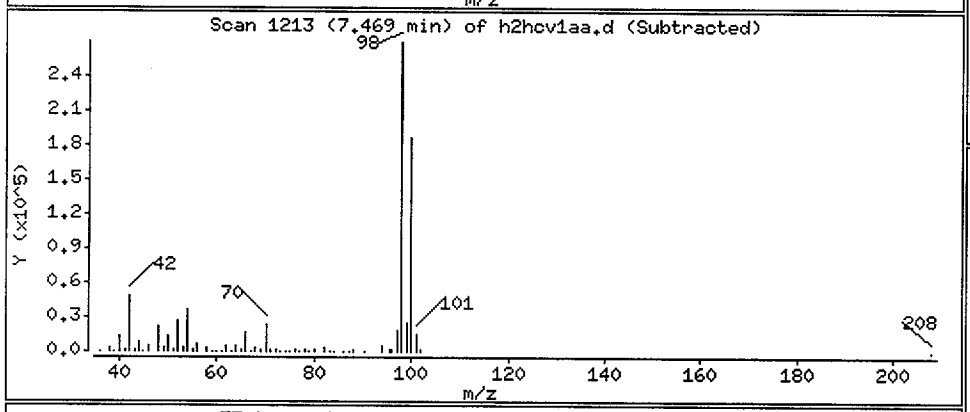
Column phase: J+W 624

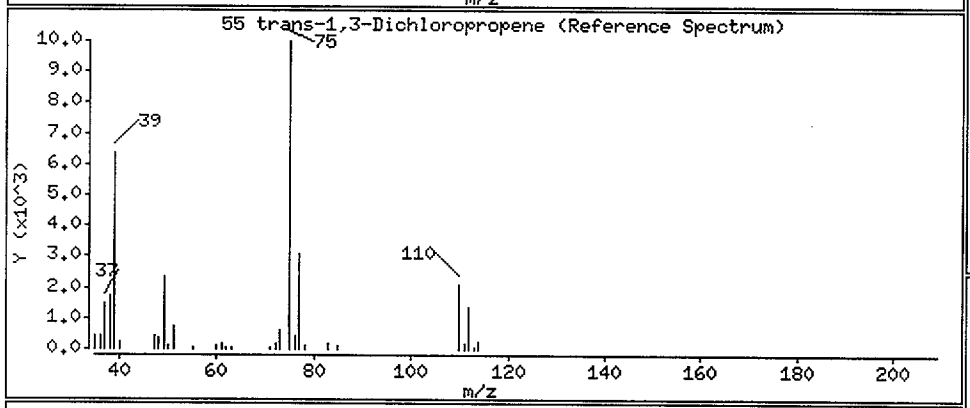
Column diameter: 0.18

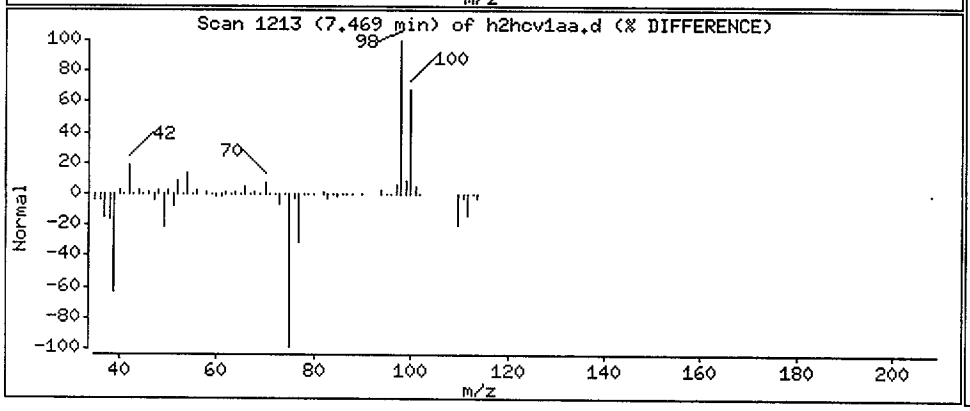
55 trans-1,3-Dichloropropene

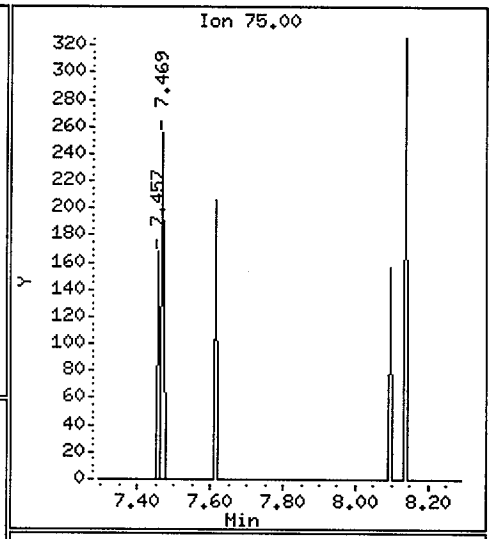
Concentration: 0.015772 ug

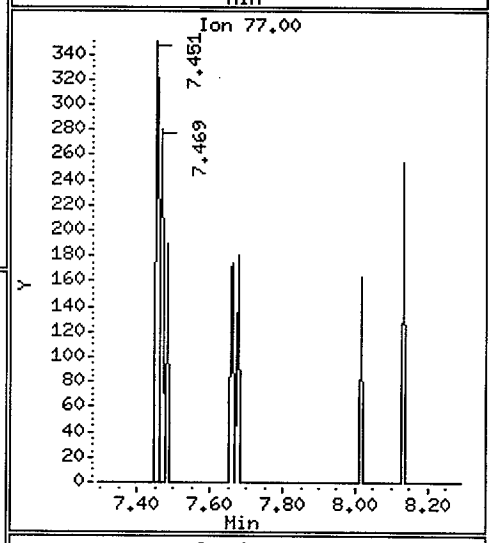


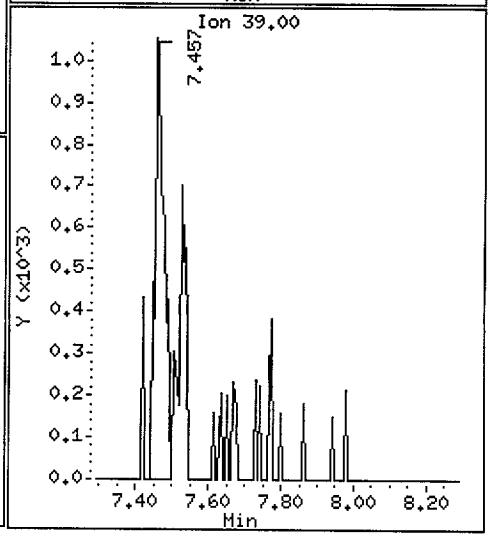












Data File: /chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCV1AA,1,0,,

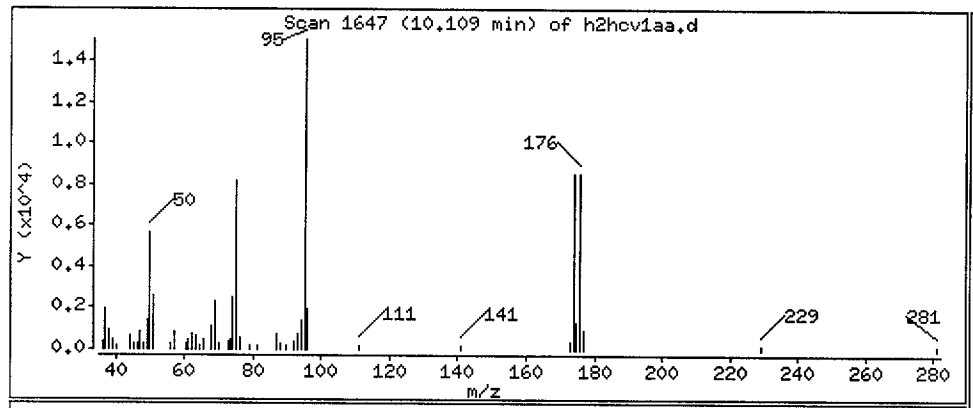
Operator: 22980

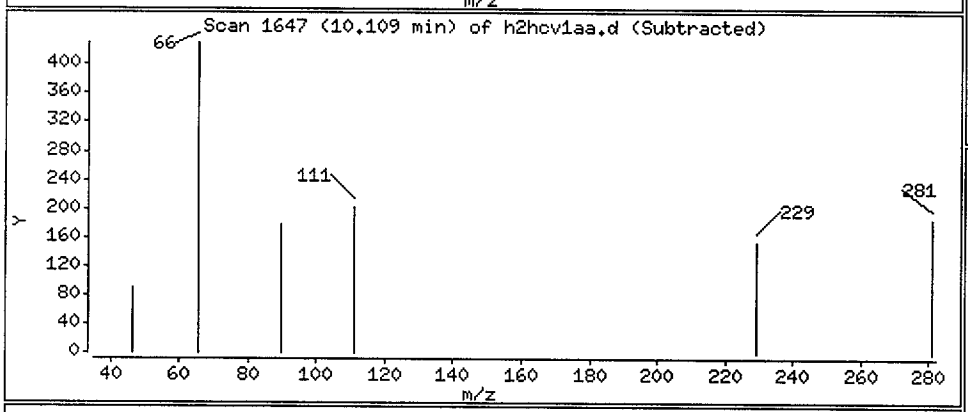
Column phase: J+W 624

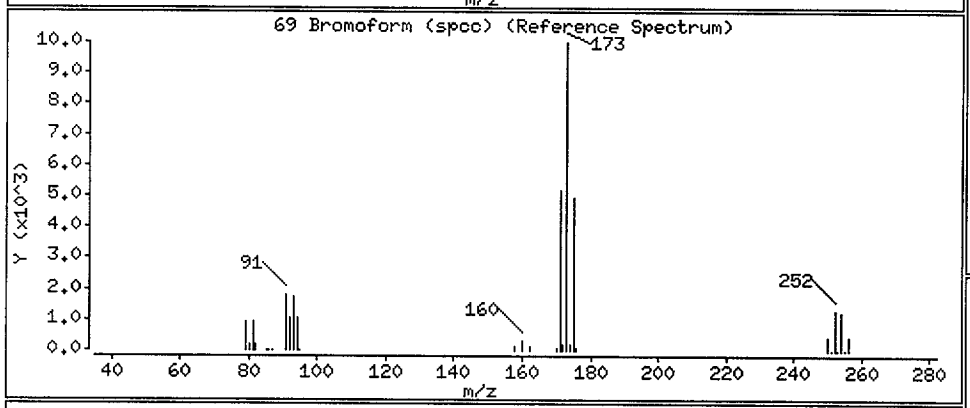
Column diameter: 0.18

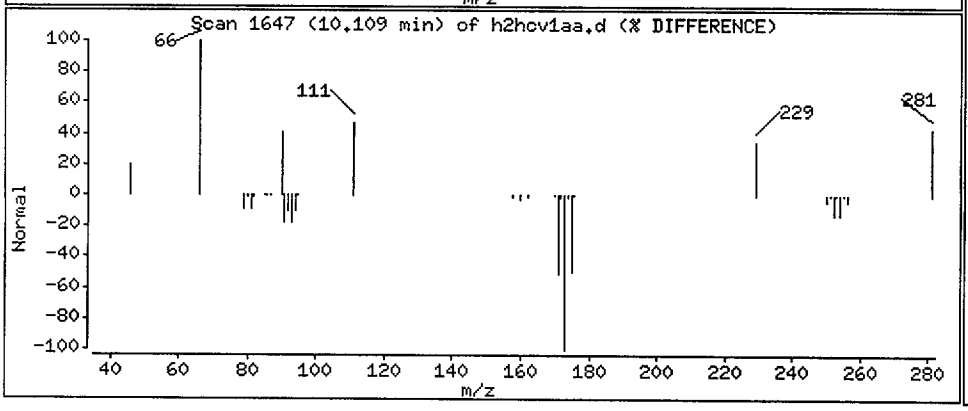
69 Bromoform (spec)

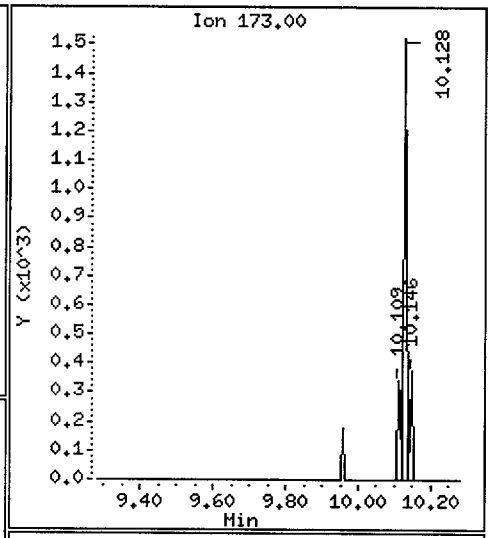
Concentration: 0.021980 ug

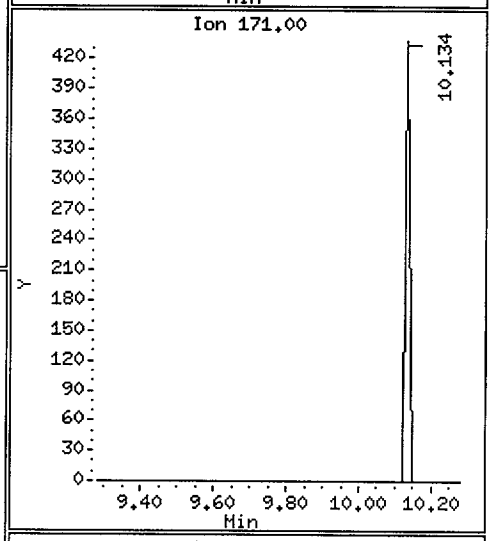


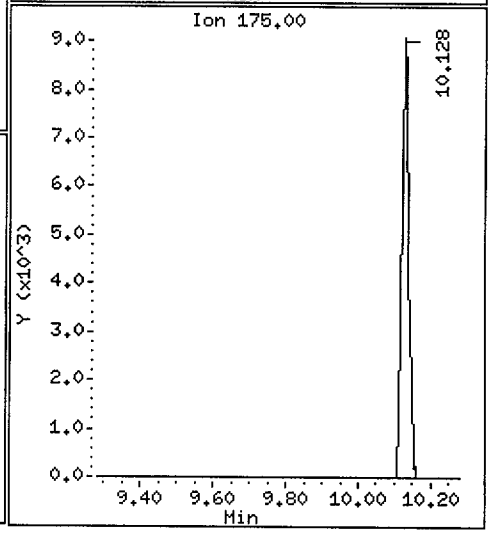












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Report Date: 14-Apr-2006 17:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcv1aa.d
Lab Smp Id: H2HCV1AA Client Smp ID: G-3098-R3-VOST TENA
Inj Date : 07-APR-2006 12:45
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCV1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	930863	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.905	1132682	12.1680849	0.30420	5	NIST05.1	80	1

CO2

JW 4/14/06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcv1aa.d

Date : 07-APR-2006 12:45

Client ID: G-3098-R3-VOST TENA

Instrument: mz.i

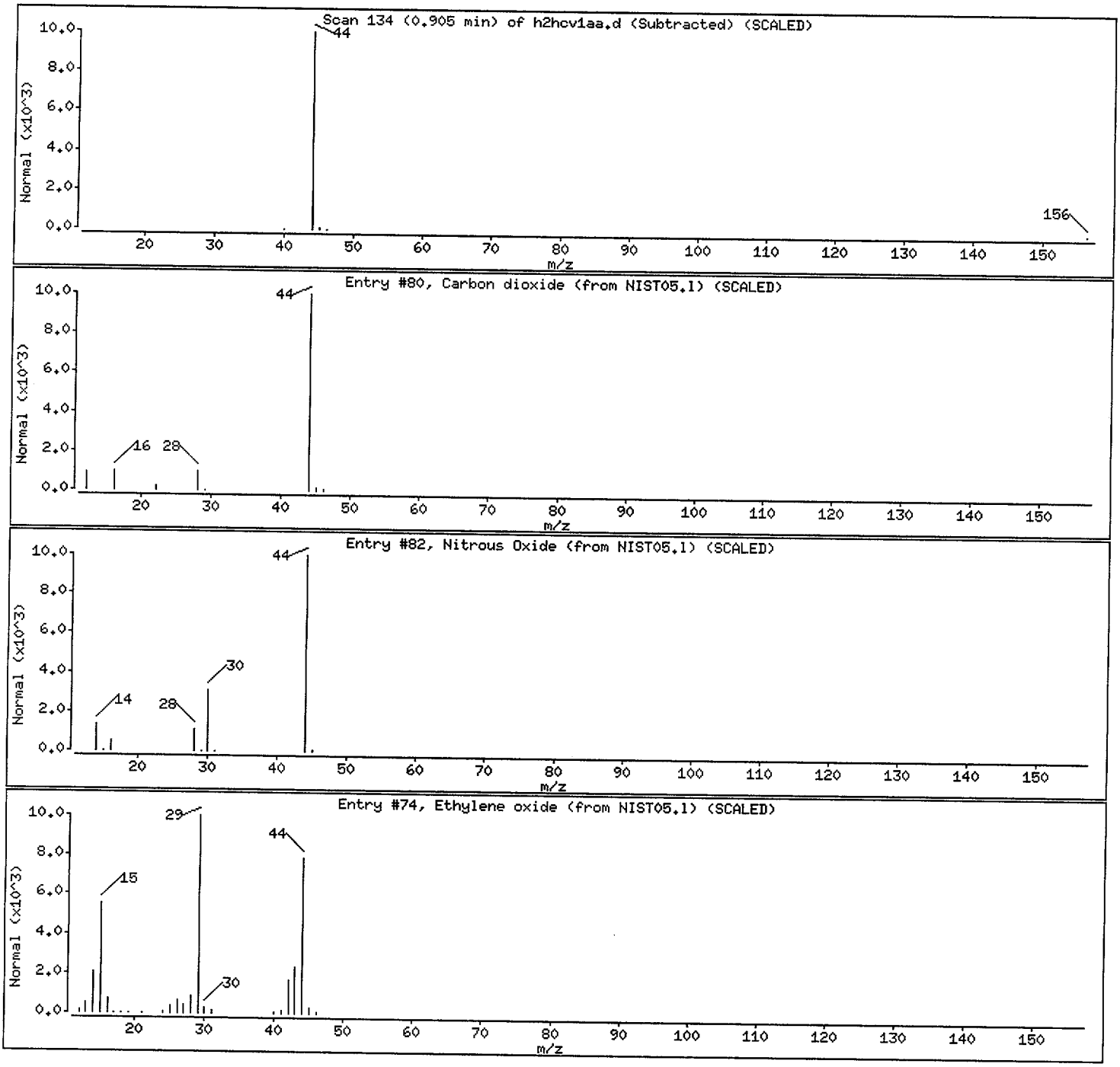
Sample Info: H2HCV1AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.016 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	81	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-033 **Work Order #:** H2HCW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 07-Apr-2006 12:39

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Lab Smp Id: H2HCW1AA Client Smp ID: G-3099-R3-VOST TENA
Inj Date : 07-APR-2006 12:22
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCW1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	823293	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.937	(1.000)	176192	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	238035	10.0000	
$ 4 Dibromofluoromethane	113	4.832	4.831	(0.852)	135339	10.2591	0.25648
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	111035	9.73322	0.24333
$ 6 Toluene-d8	98	7.460	7.465	(0.835)	709724	9.16767	0.22919
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	193368	8.05502	0.20138
11 Chloromethane (spcc)	50	1.121	1.126	(0.198)	55938	0.63773	0.015943
15 Bromomethane	94	1.413	1.418	(0.249)	2002	1.06231	0.026558
22 Acetone	43	2.125	2.123	(0.375)	857	3.42425	0.085606 - See reprint for (w)
23 *Iodomethane	142	2.198	2.184	(0.388)	730	0.55624	0.013906
39 *THF	42	4.546	4.532	(0.802)	839	0.42995	0.010749
45 1,2-Dichloroethane	62	5.666	5.335	(0.999)	12243	0.71213	0.017803
53 4-Methyl-2-pentanone	43	7.460	7.386	(1.315)	5895	0.81995	0.020499
55 trans-1,3-Dichloropropene	75	7.460	7.793	(0.835)	242	0.64043	0.016011
69 Bromoform (spcc)	173	10.119	9.782	(1.133)	466	0.96711	0.024178

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 14-Apr-2006 16:44

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Lab Smp Id: H2HCW1AA Client Smp ID: G-3099-R3-VOST TENA
Inj Date : 07-APR-2006 12:22
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCW1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	823293	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.937	(1.000)	176192	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	238035	10.0000	
$ 4 Dibromofluoromethane	113	4.832	4.831	(0.852)	135339	10.2591	0.25648
$ 5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	111035	9.73321	0.24333
$ 6 Toluene-d8	98	7.460	7.465	(0.835)	709724	9.16770	0.22919
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	193368	8.05502	0.20138
11 Chloromethane (spcc)	50	1.121	1.126	(0.198)	55938	0.63772	0.015943
15 Bromomethane	94	1.413	1.418	(0.249)	2002	1.06222	0.026555
22 Acetone	43	2.143	2.123	(0.378)	2516	3.75519	0.093880(M)
23 *Iodomethane	142	2.198	2.184	(0.388)	730	0.55624	0.013906
39 *THF	42	4.546	4.532	(0.802)	839	0.42951	0.010738

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 14-Apr-2006 16:44

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 07-Apr-2006 12:39

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcw1aa.d
Lab Smp Id: H2HCW1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3099-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	823293	-13.57
2 Chlorobenzene-d5	164101	82050	328202	176192	7.37
3 1,4 Dichlorobenze	204390	102195	408780	238035	16.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.08
2 Chlorobenzene-d5	8.94	8.44	9.44	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.02

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 07-Apr-2006 12:39

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HCW1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3099-R3-VOST TENA
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

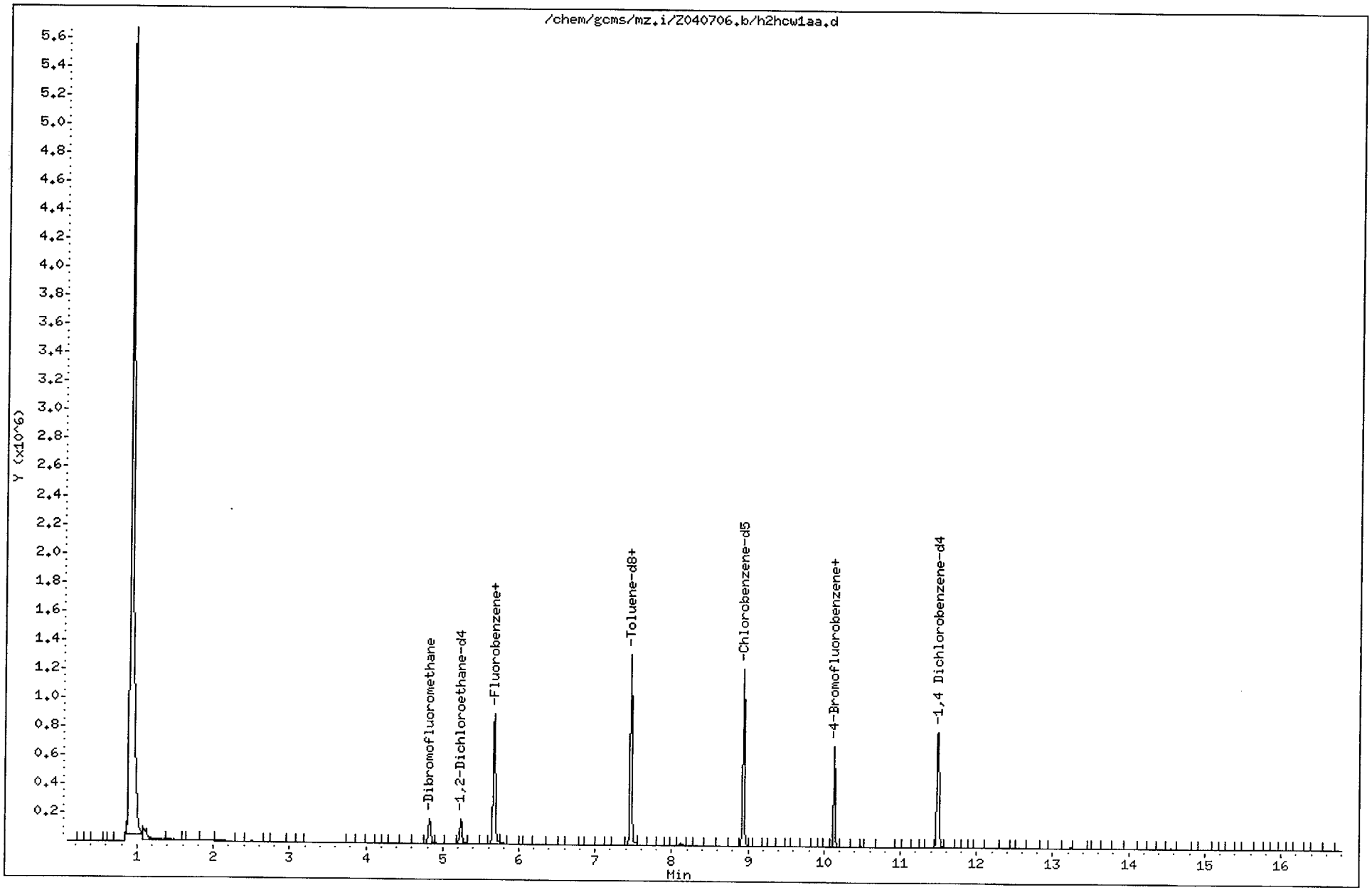
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25648	102.59	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24333	97.33	50-150
$ 6 Toluene-d8	0.25000	0.22919	91.68	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20138	80.55	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Date : 07-APR-2006 12:22
Client ID: G-3099-R3-VOST TENA
Sample Info: H2HCW1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

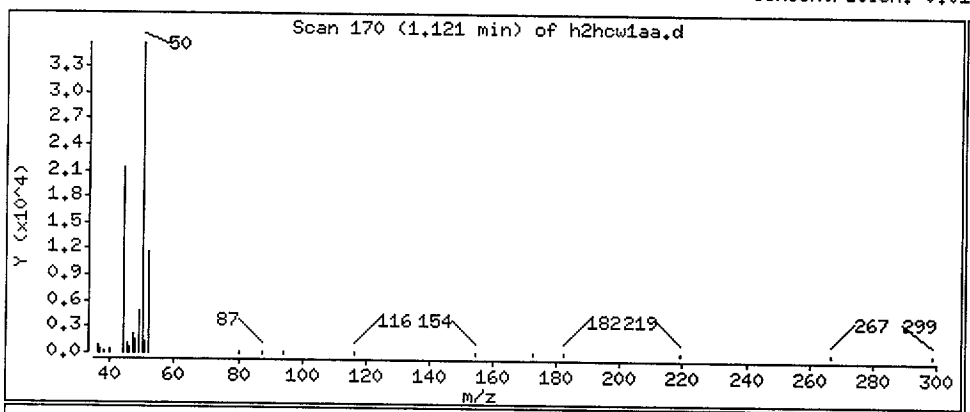
Operator: 22980

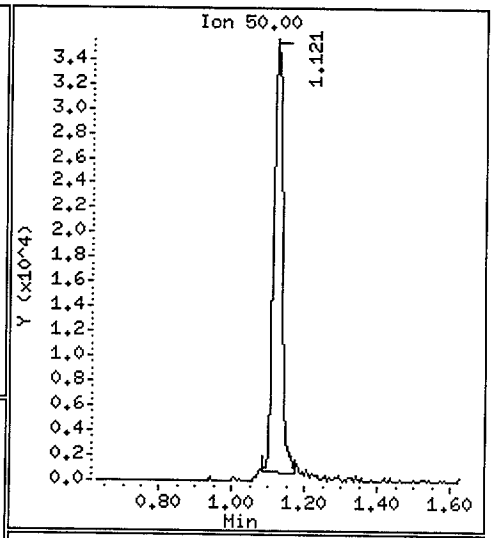
Column phase: J+W 624

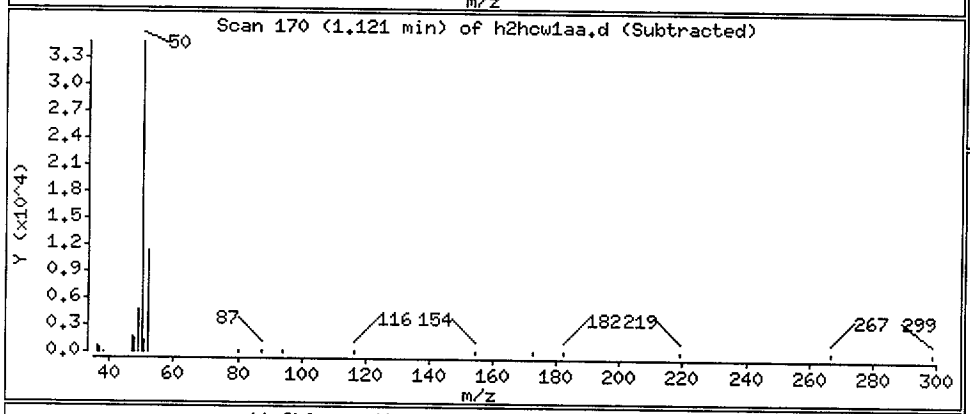
Column diameter: 0.18

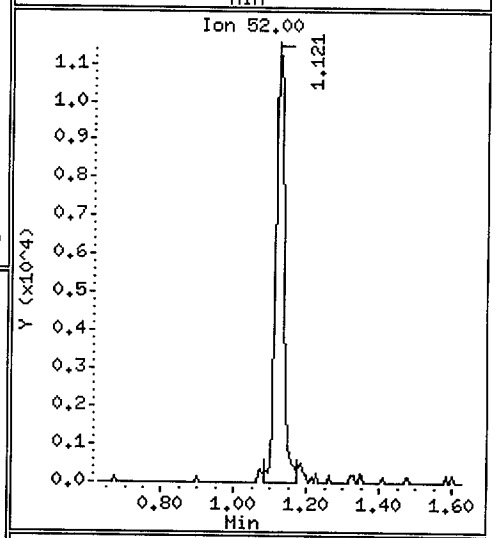
11 Chloromethane (spcc)

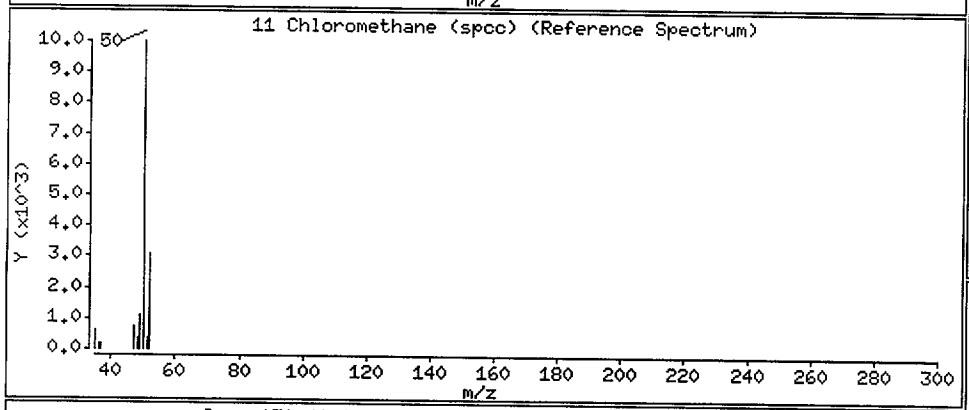
Concentration: 0.015943 ug

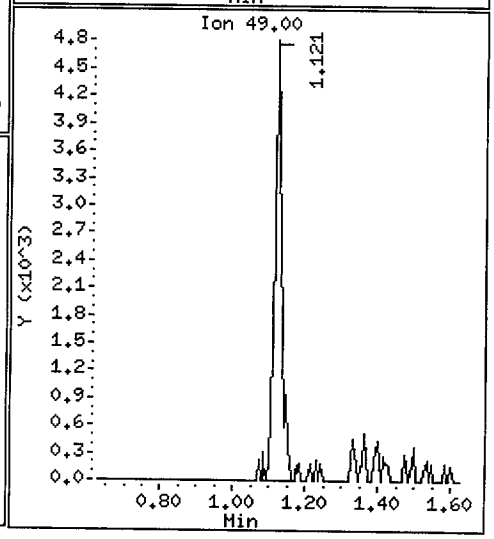


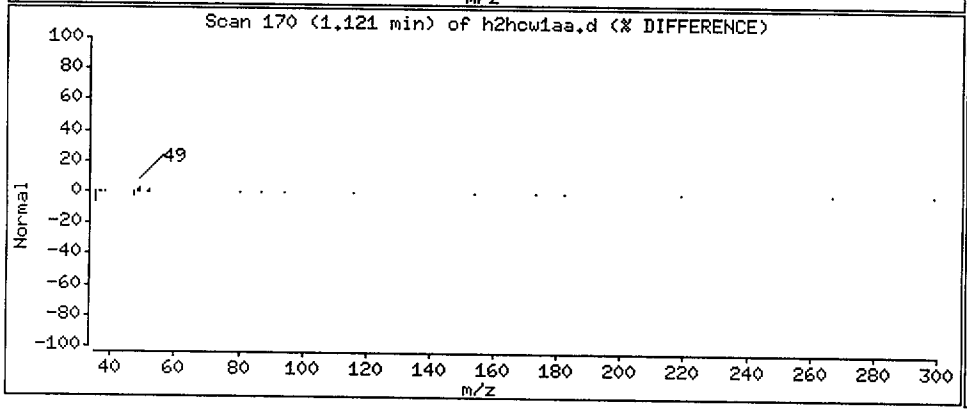












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

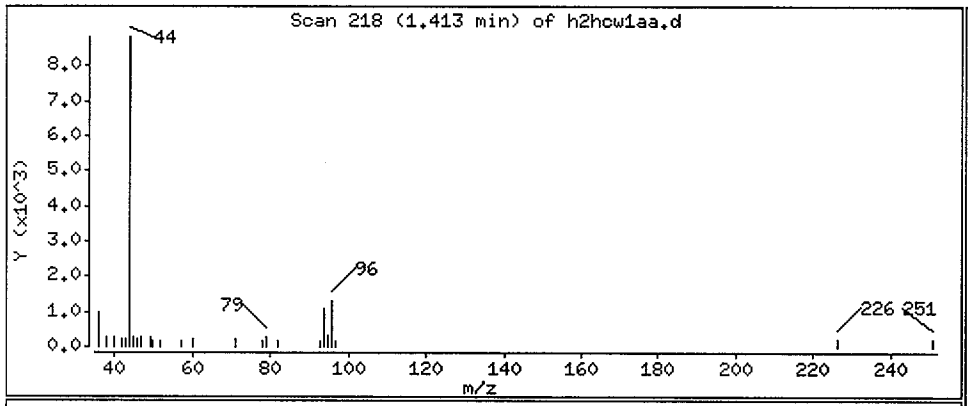
Operator: 22980

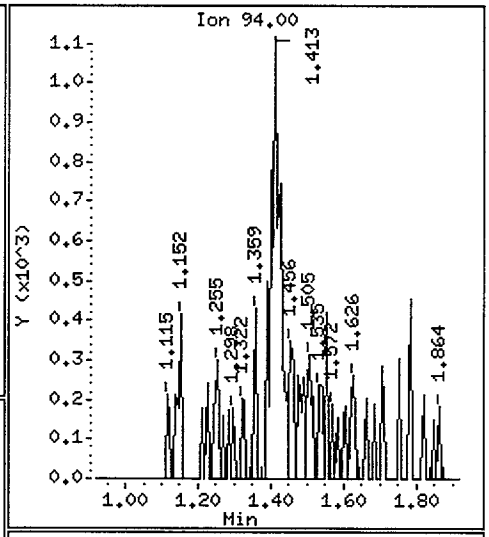
Column phase: J+W 624

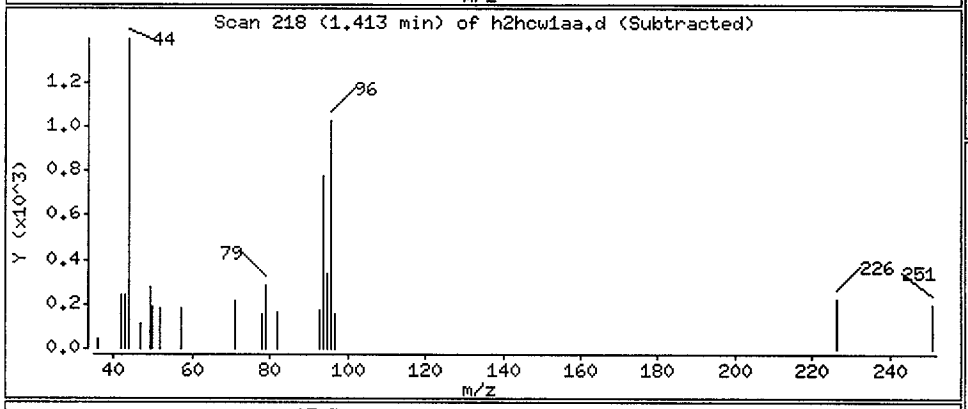
Column diameter: 0.18

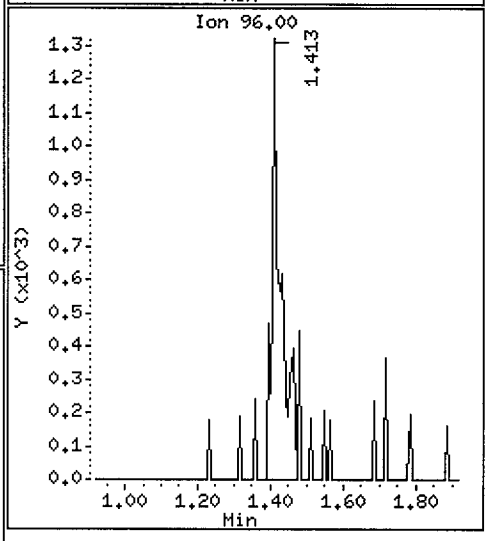
15 Bromomethane

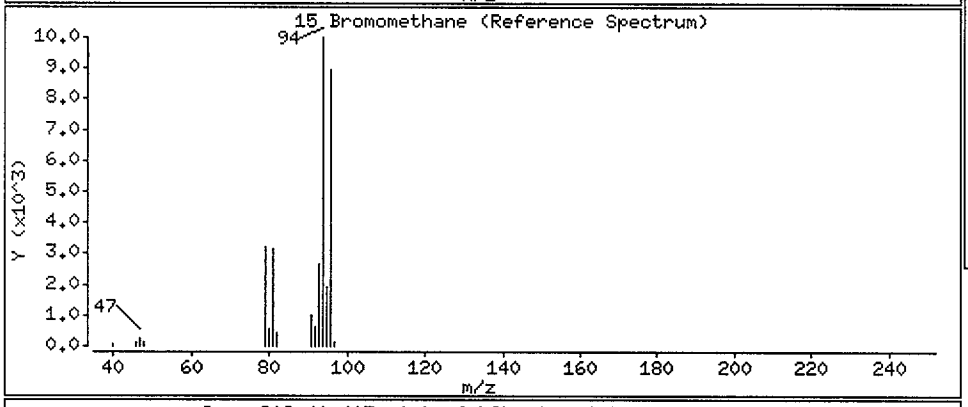
Concentration: 0.026558 ug

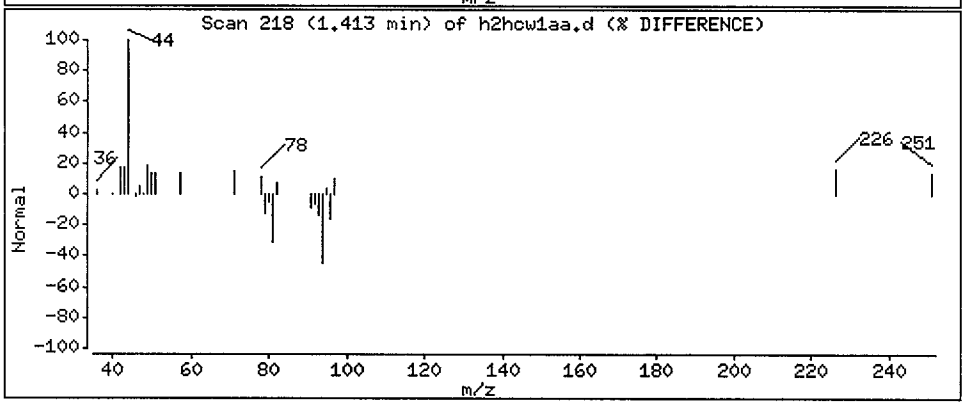












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

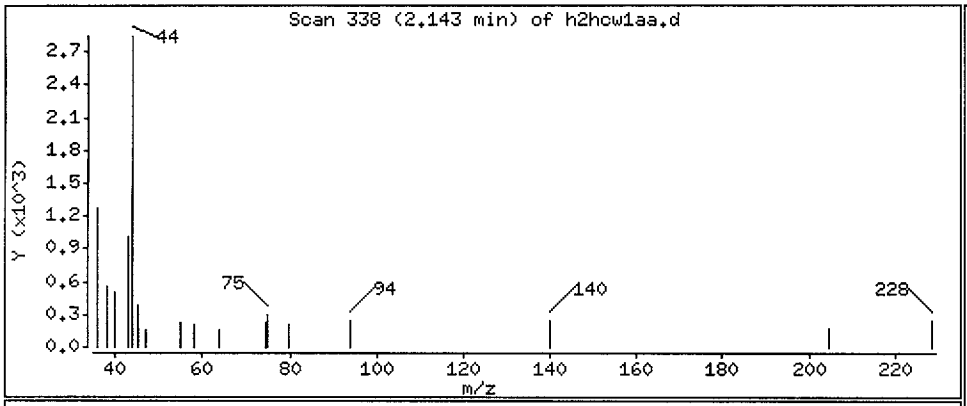
Operator: 22980

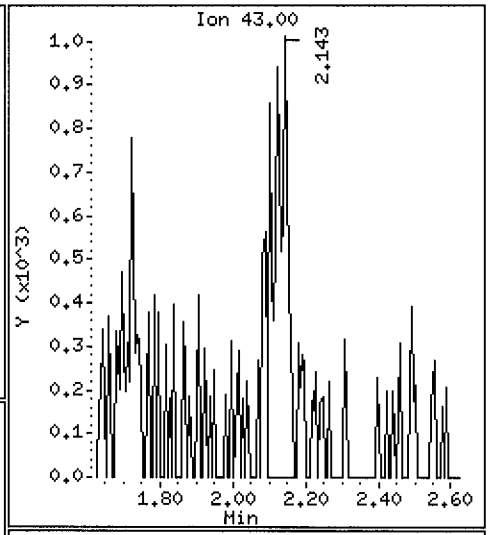
Column phase: J+W 624

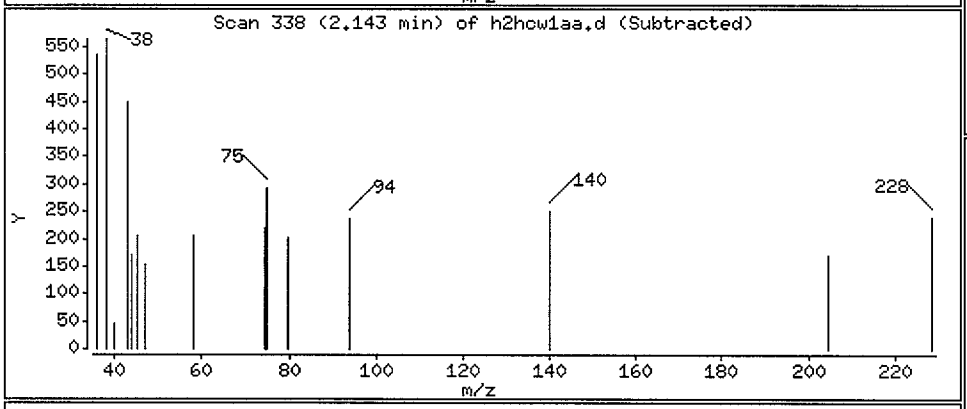
Column diameter: 0.18

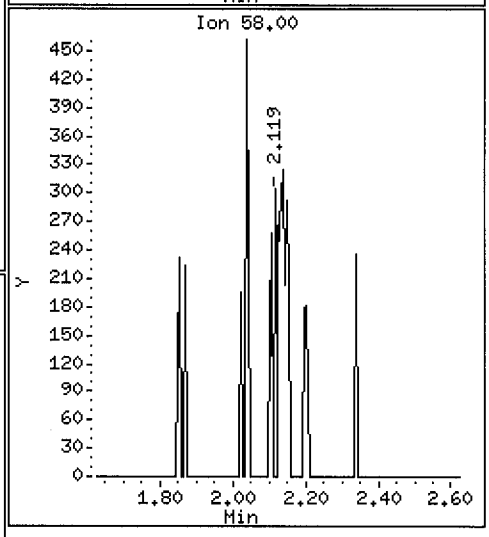
22 Acetone

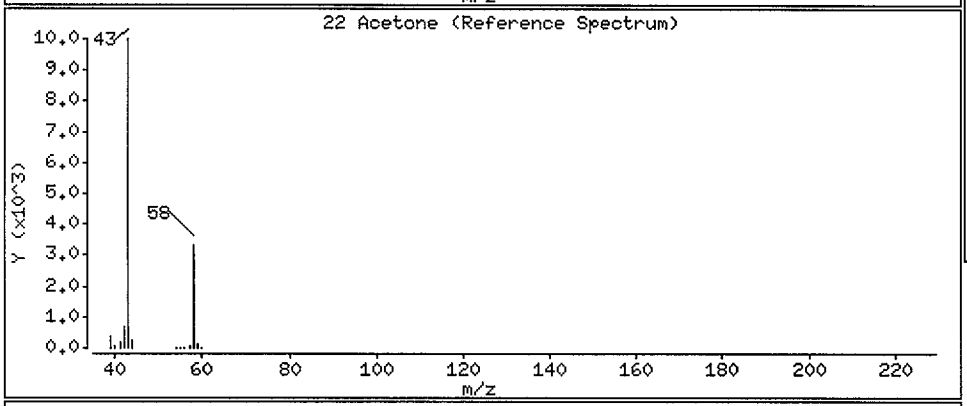
Concentration: 0.093880 ug

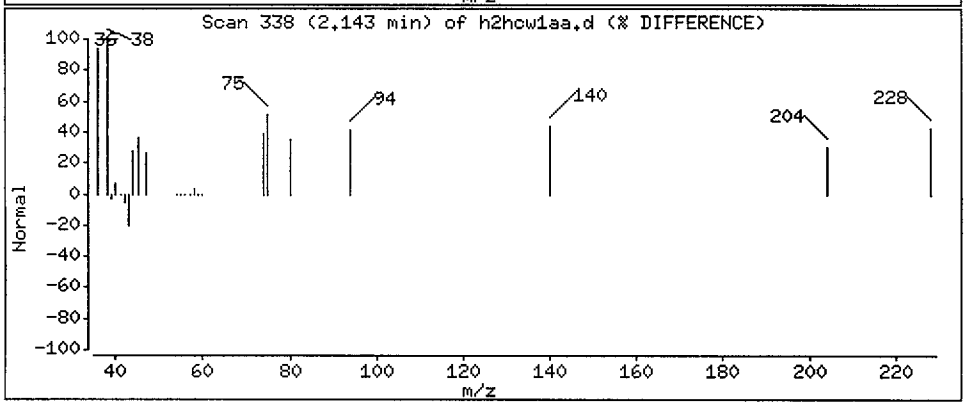












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

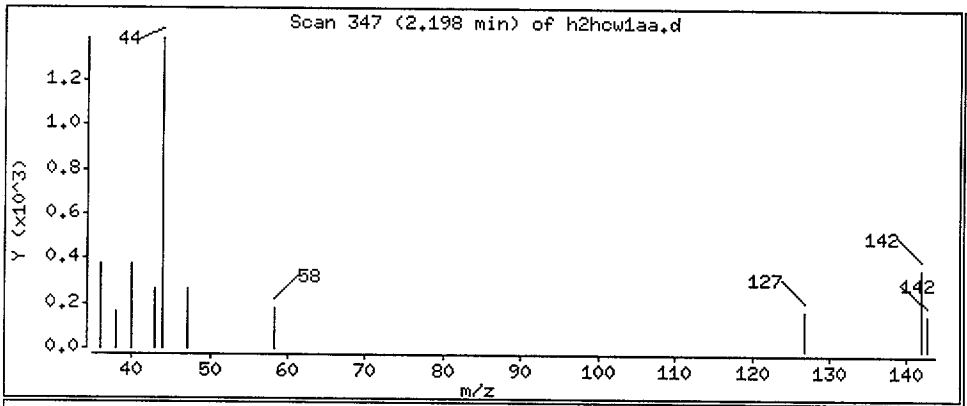
Operator: 22980

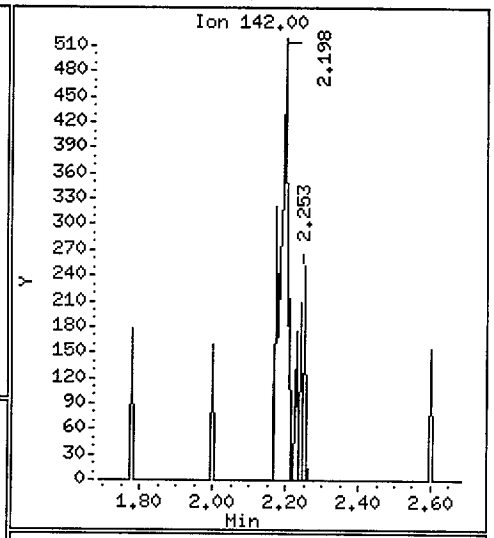
Column phase: J+W 624

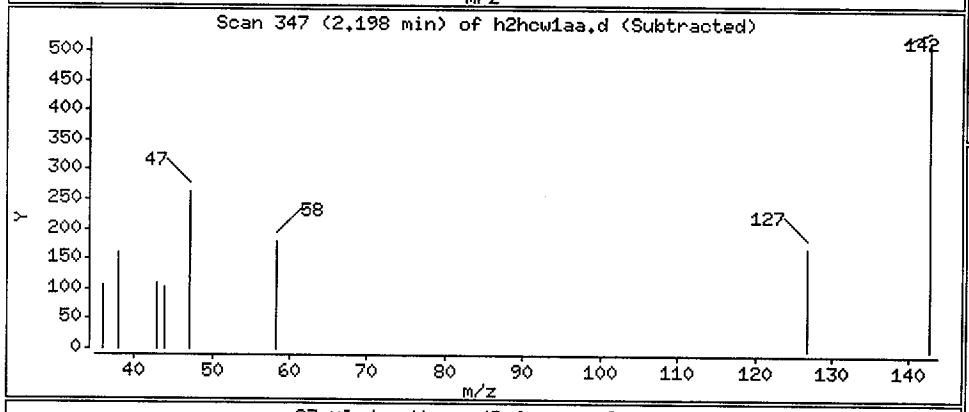
Column diameter: 0.18

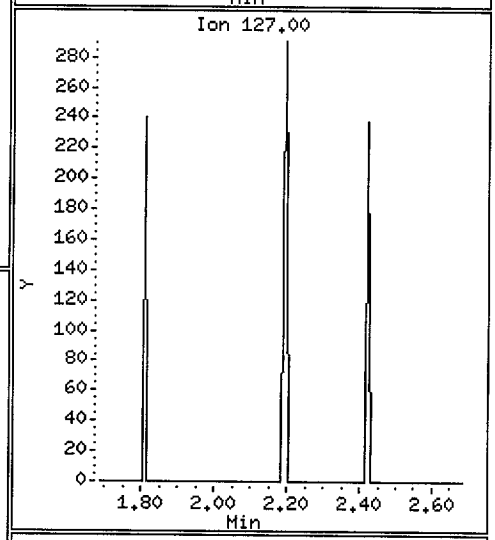
23 *Iodomethane

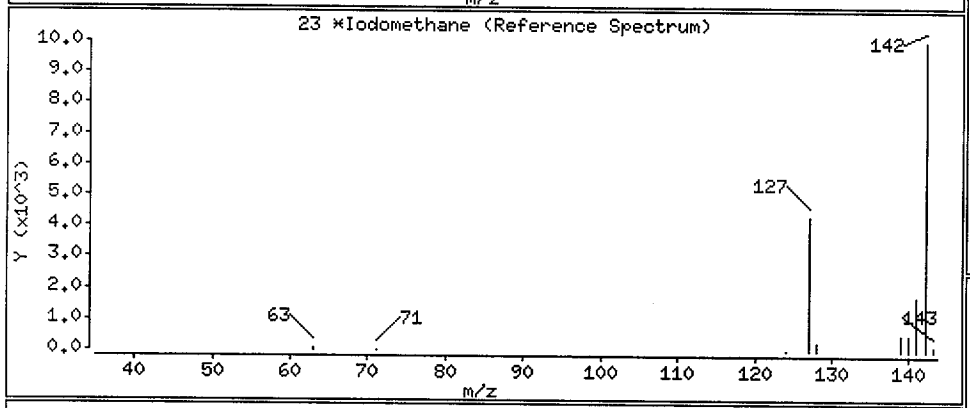
Concentration: 0.013906 ug

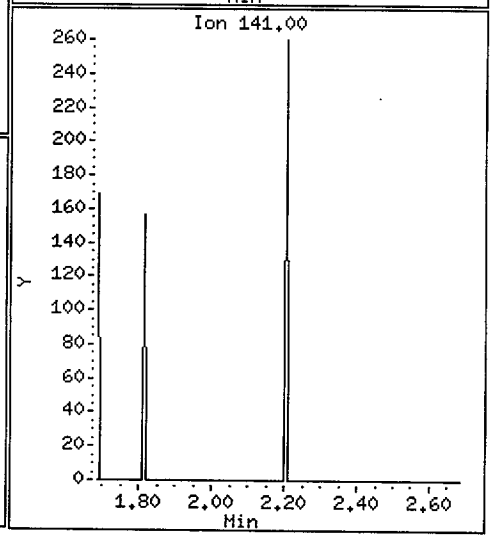


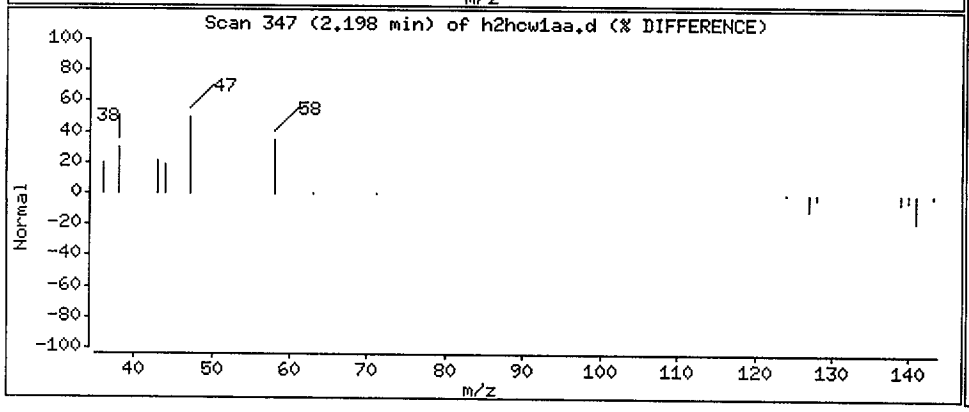












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

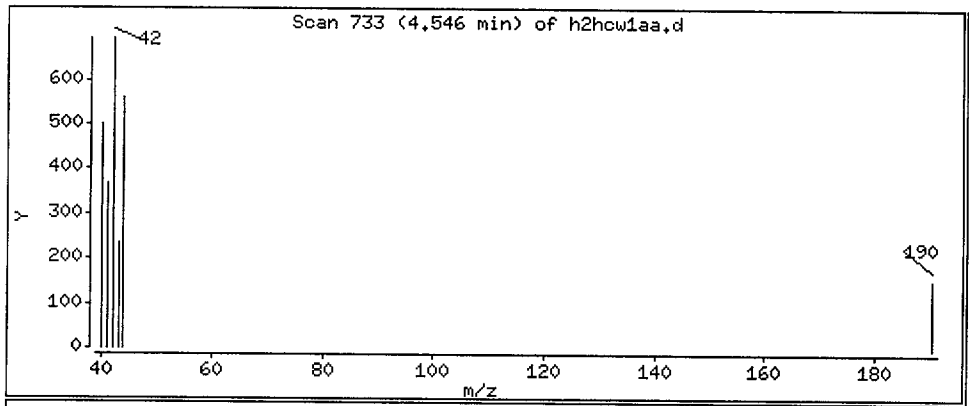
Operator: 22980

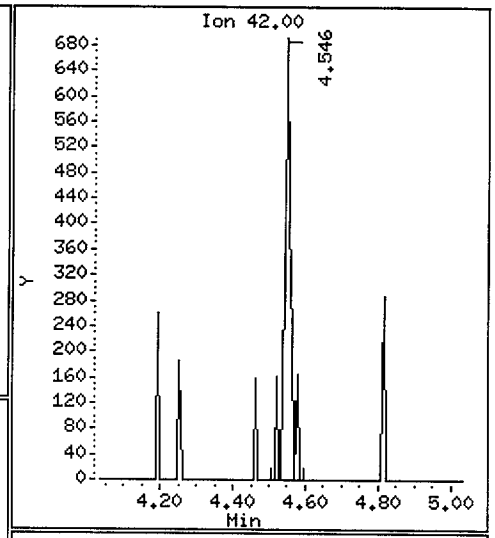
Column phase: J+W 624

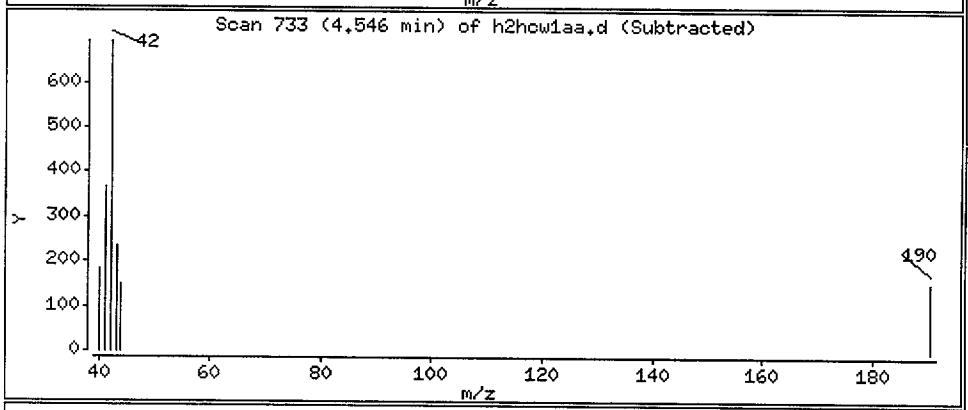
Column diameter: 0.18

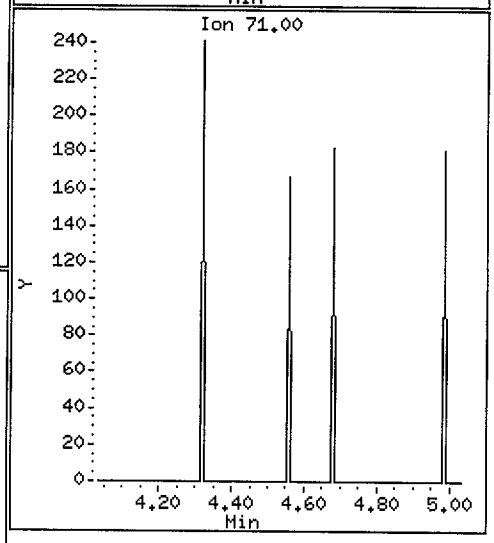
39 *THF

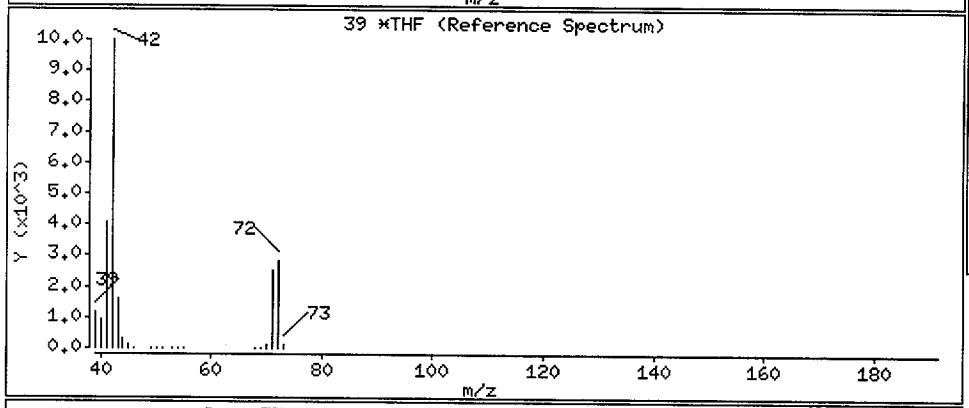
Concentration: 0.010749 ug

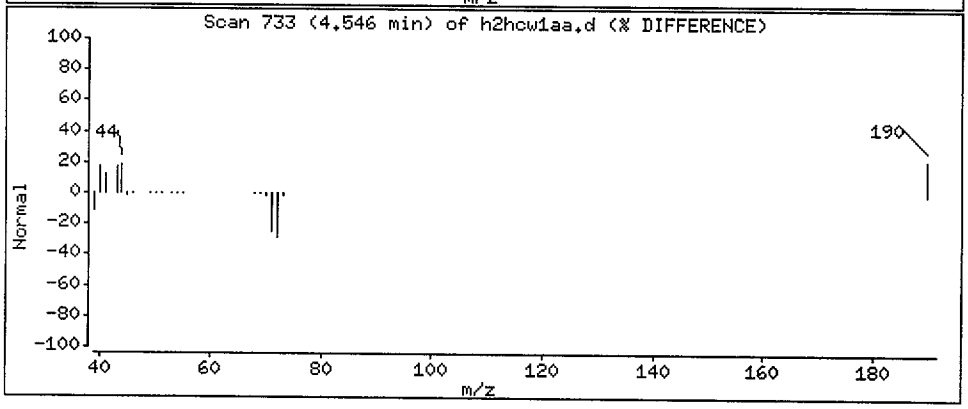












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

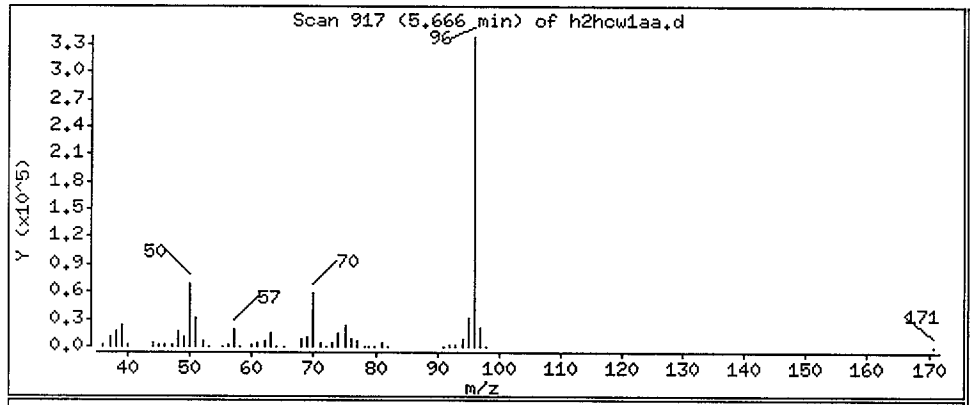
Operator: 22980

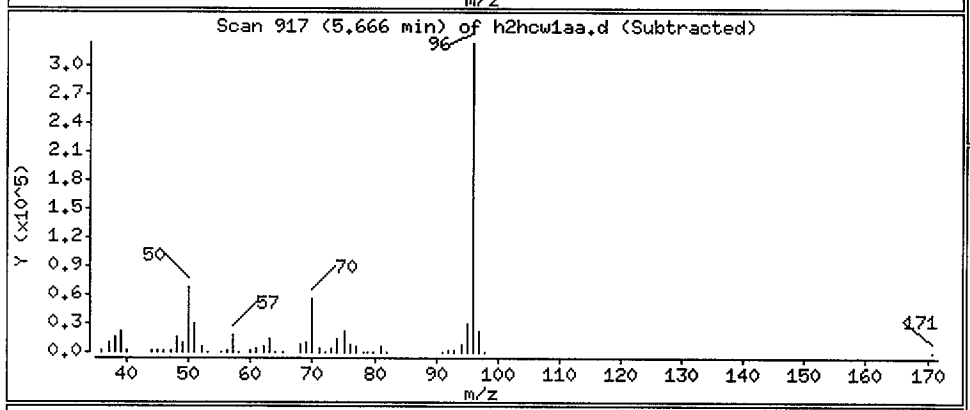
Column phase: J+W 624

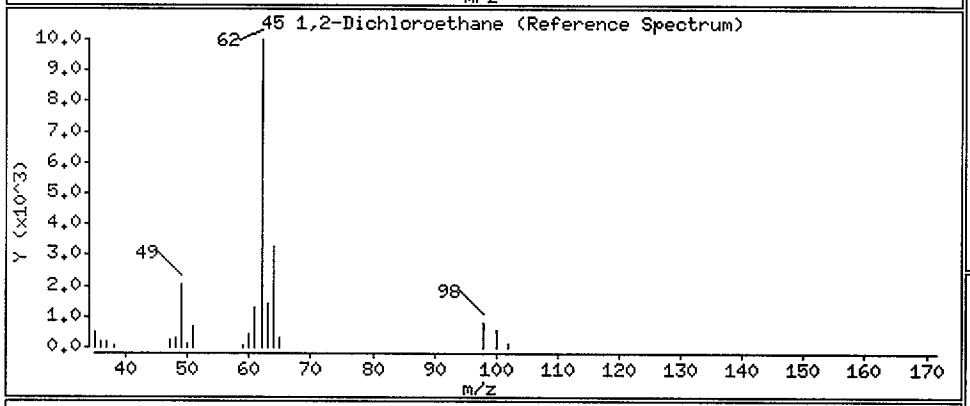
Column diameter: 0.18

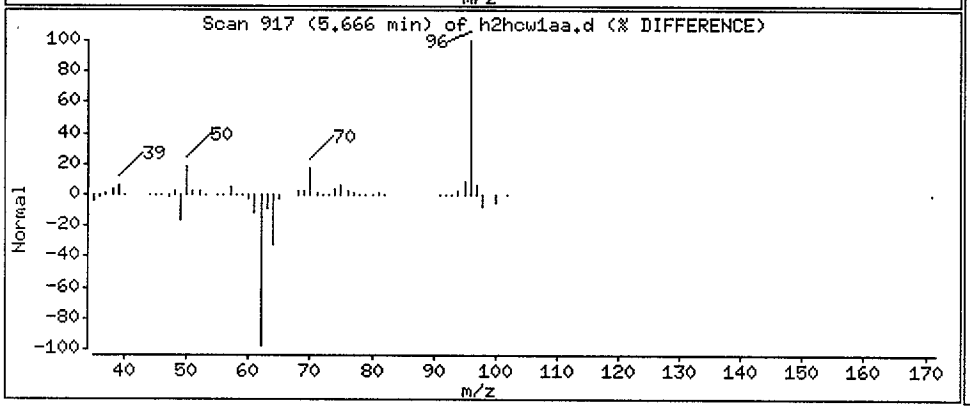
45 1,2-Dichloroethane

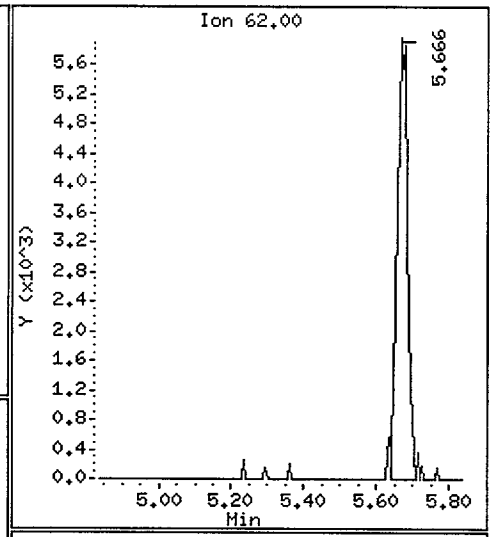
Concentration: 0.017803 ug

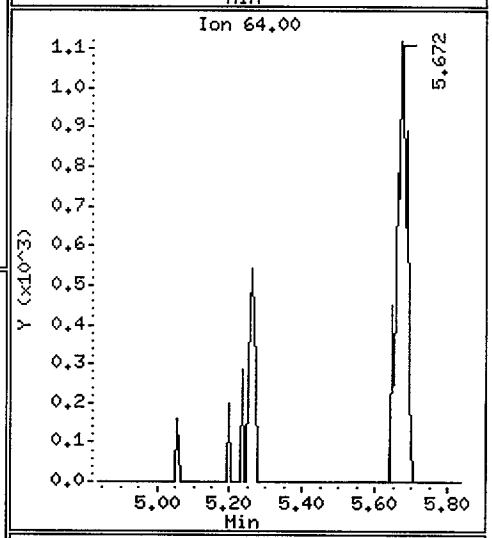


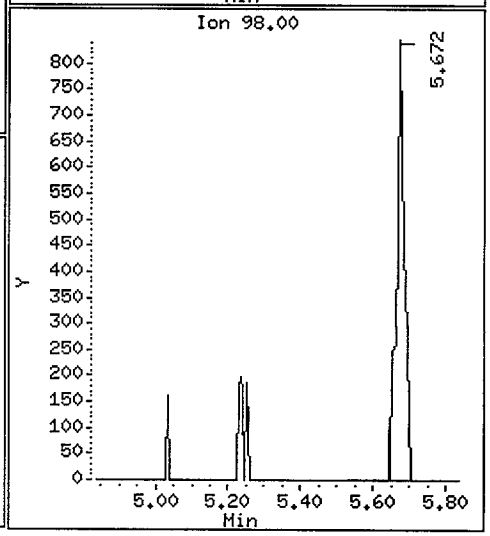












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

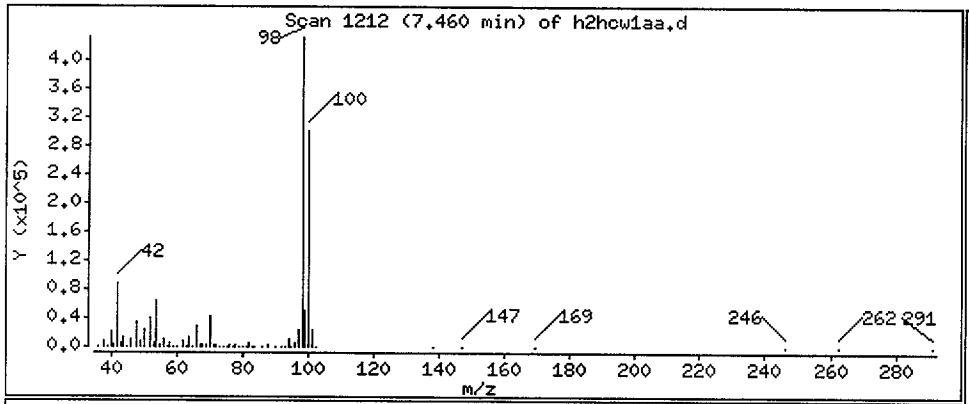
Operator: 22980

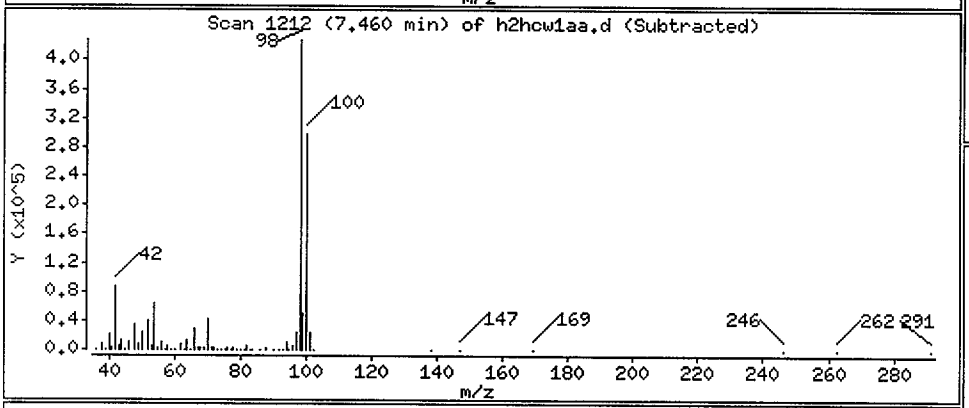
Column phase: J+W 624

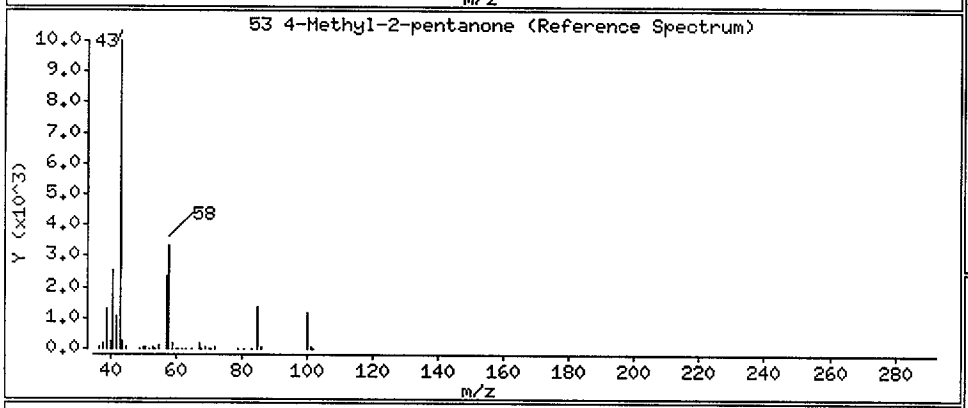
Column diameter: 0.18

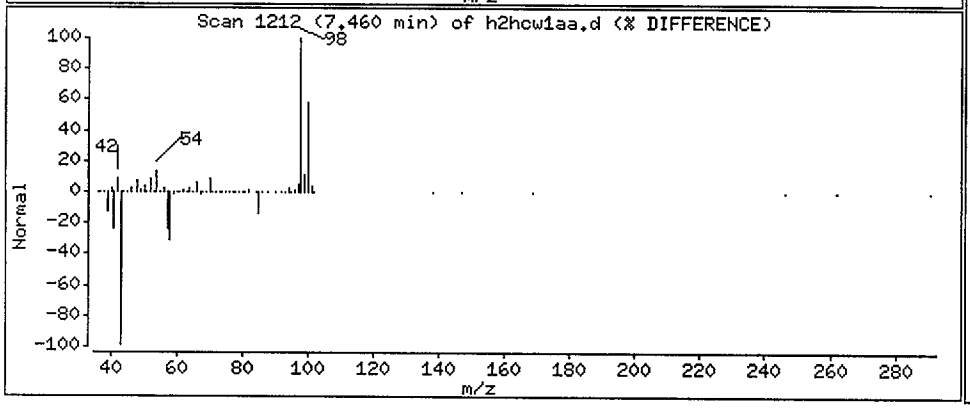
53 4-Methyl-2-pentanone

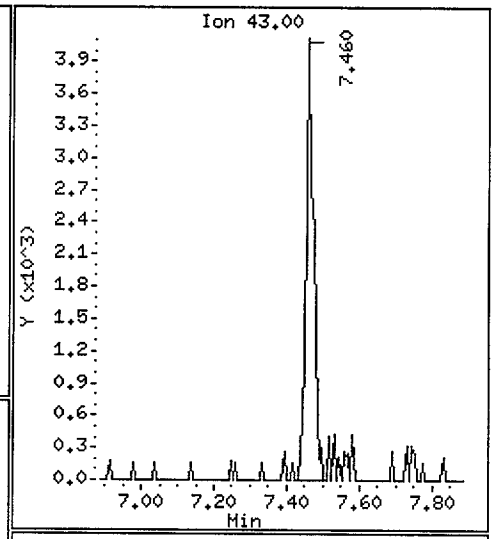
Concentration: 0.020499 ug

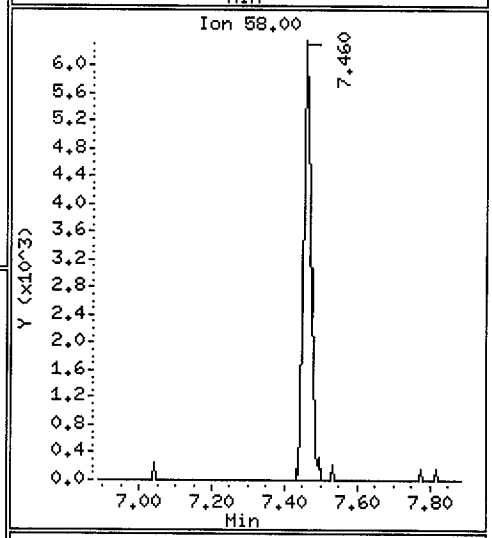


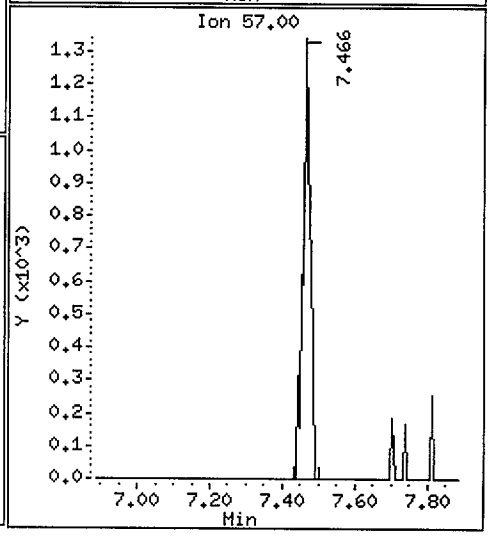












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

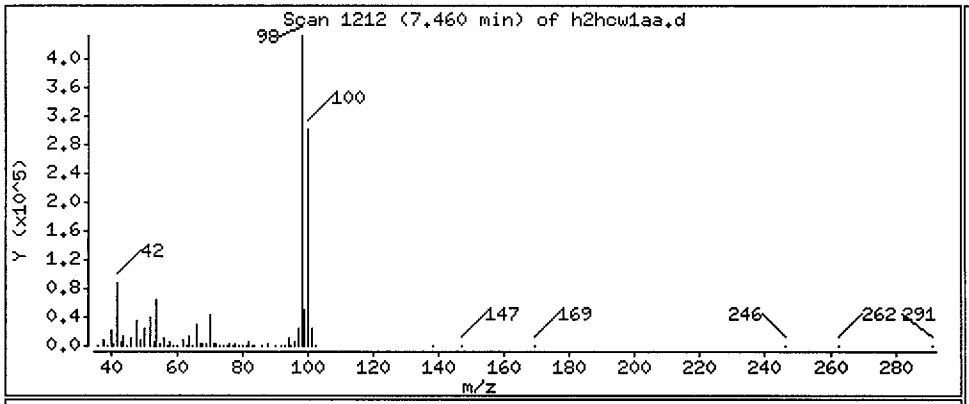
Operator: 22980

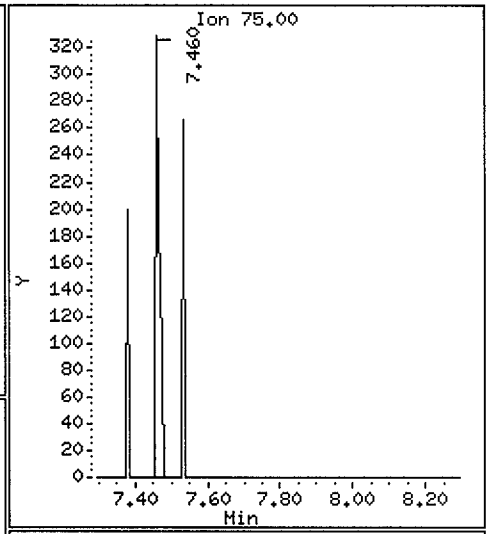
Column phase: J+W 624

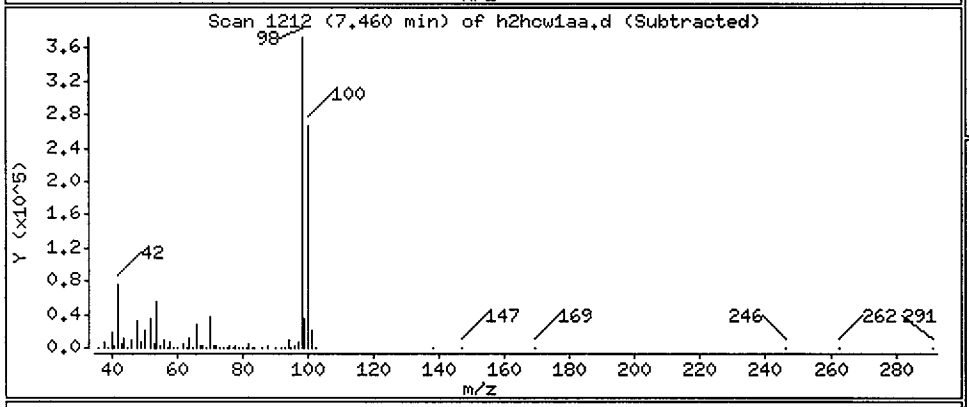
Column diameter: 0.18

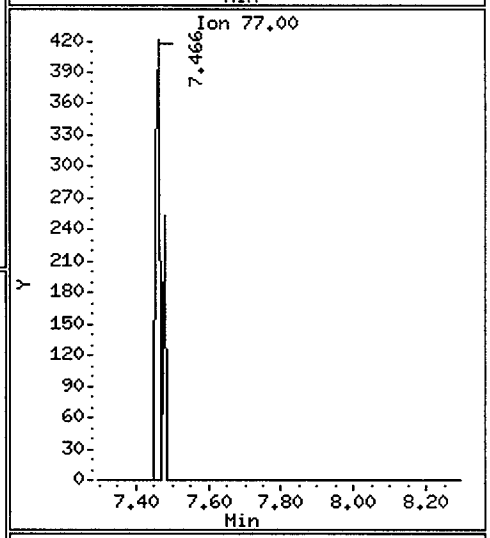
55 trans-1,3-Dichloropropene

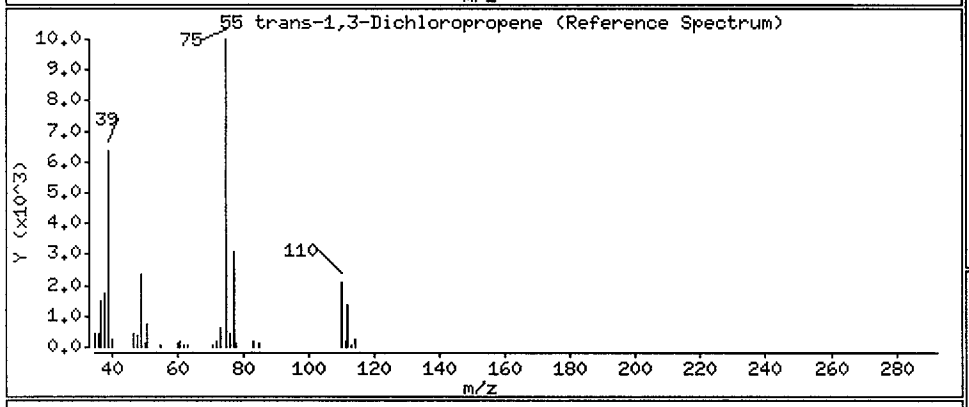
Concentration: 0.016011 ug

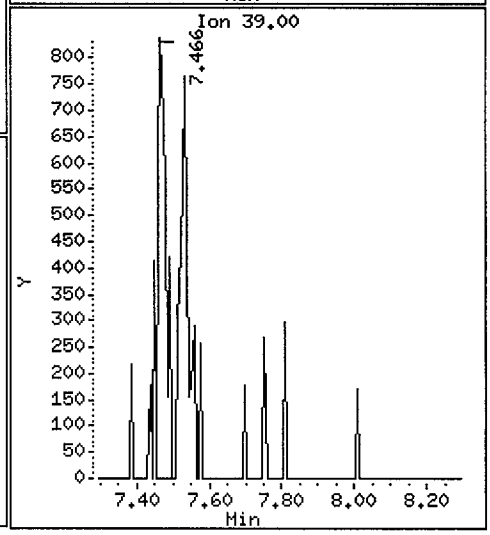


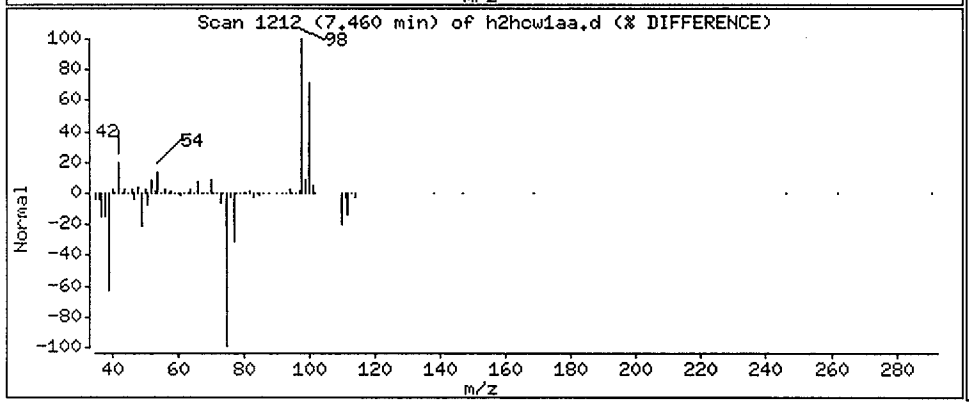












Data File: /chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCW1AA,1,0,,

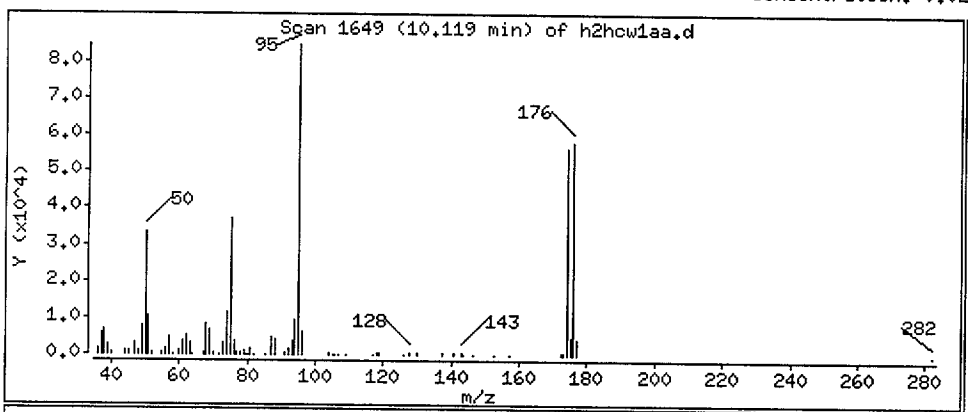
Operator: 22980

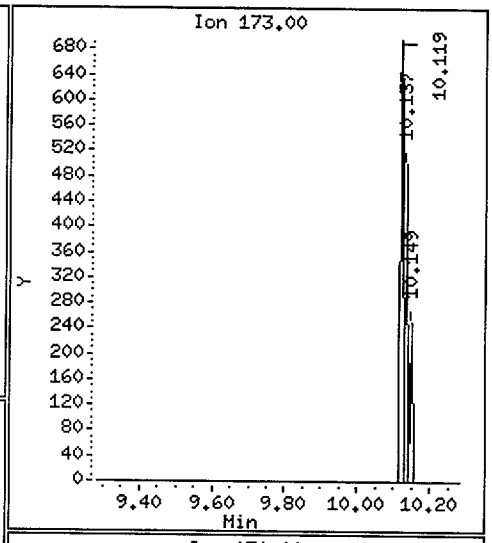
Column phase: J+W 624

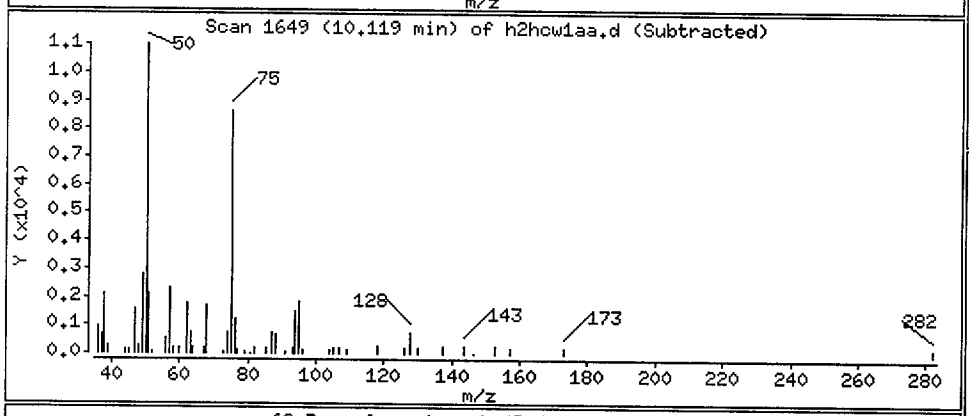
Column diameter: 0.18

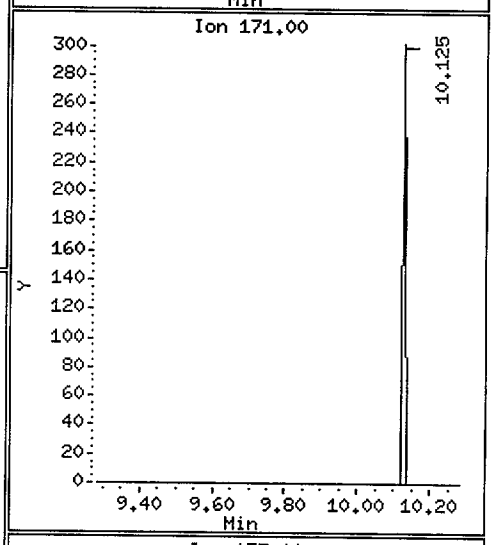
69 Bromoform (spcc)

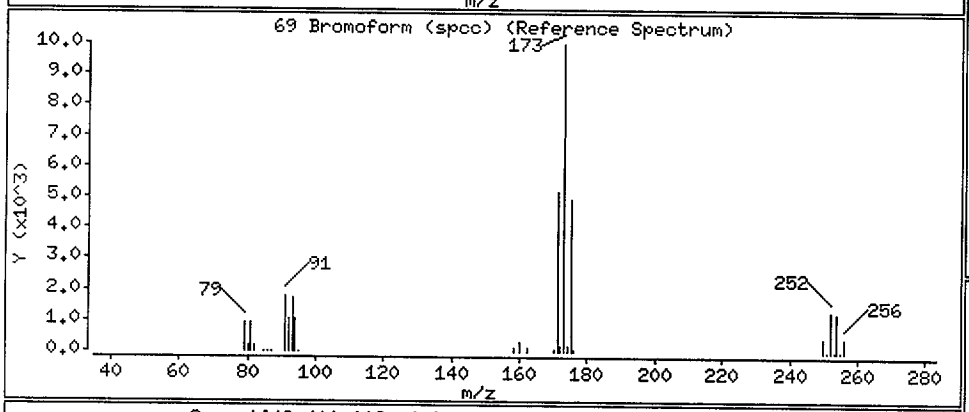
Concentration: 0.024178 ug

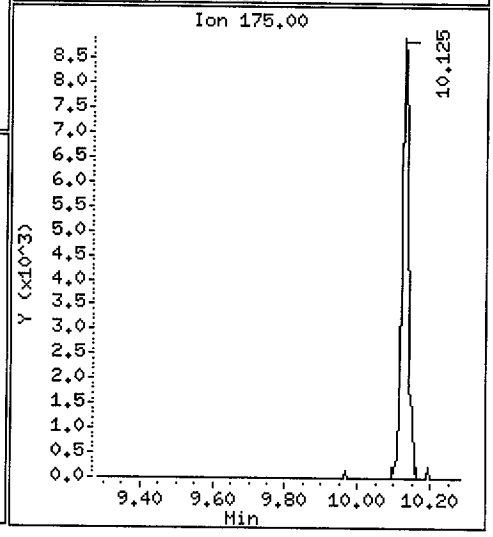


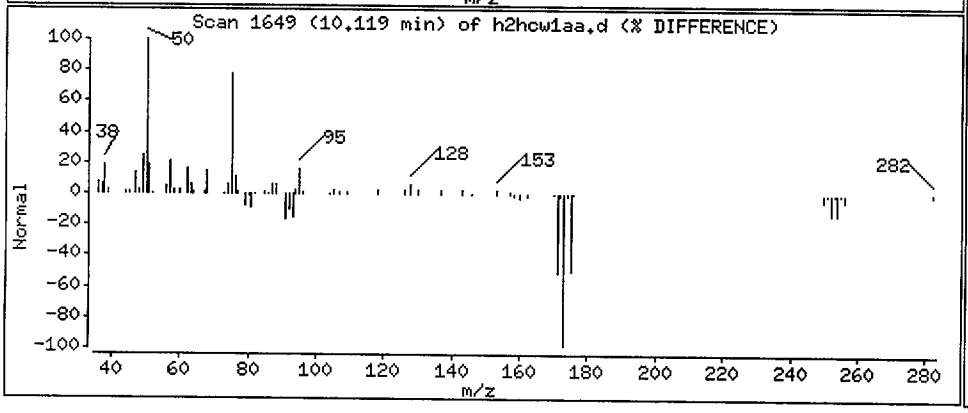












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Report Date: 14-Apr-2006 17:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d
Lab Smp Id: H2HCW1AA Client Smp ID: G-3099-R3-VOST TENA
Inj Date : 07-APR-2006 12:22
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCW1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.672	903908	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.908	5615501	62.1246963	1.5531	5	NIST05.1	80	1

CO2

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcw1aa.d

Date : 07-APR-2006 12:22

Client ID: G-3099-R3-VOST TENA

Instrument: mz.i

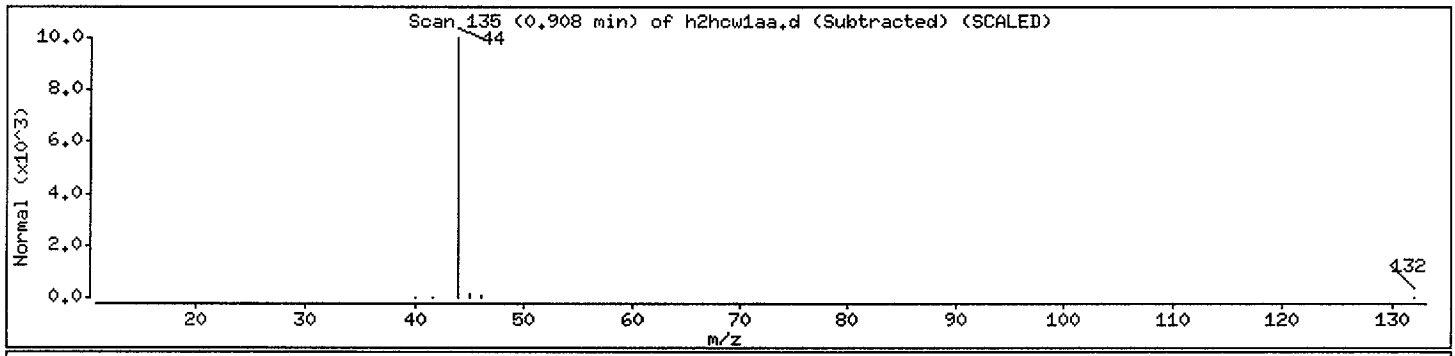
Sample Info: H2HCW1AA,1,0,,

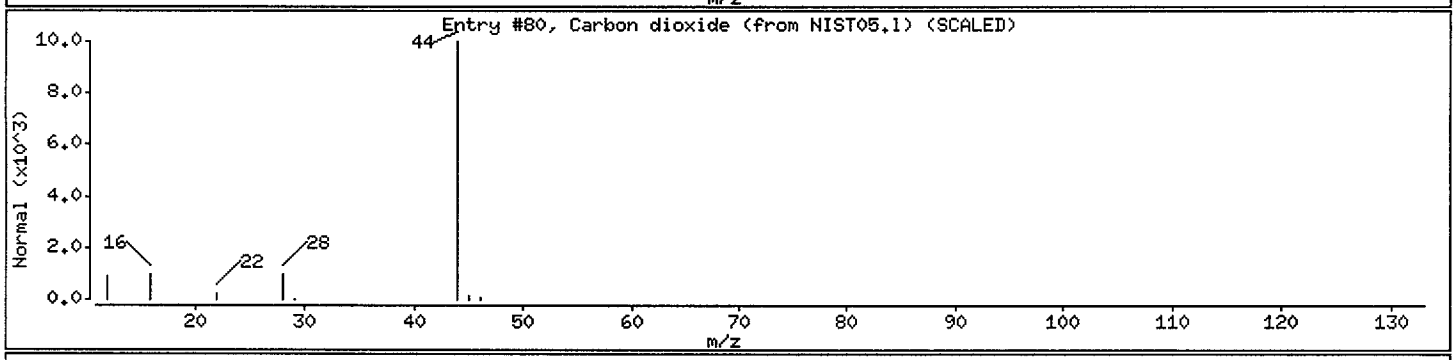
Operator: 22980

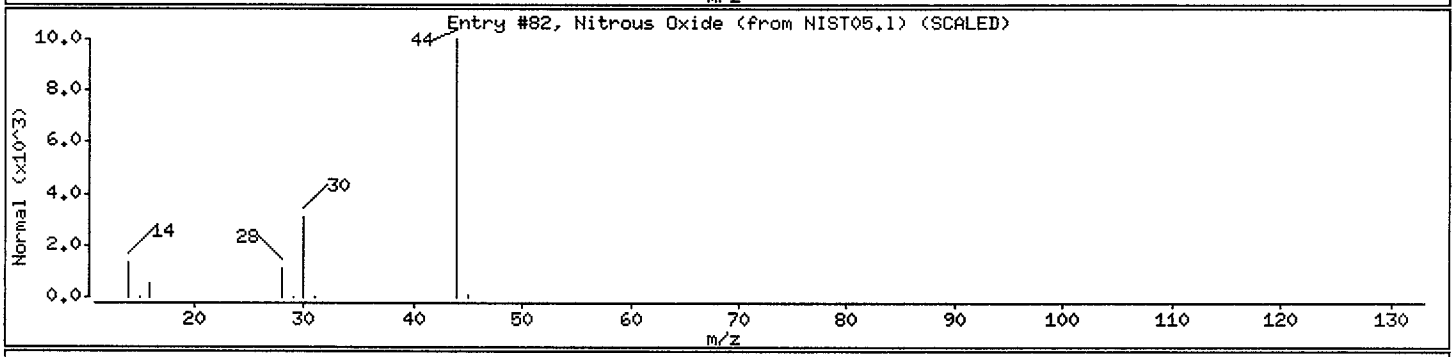
Column phase: J+W 624

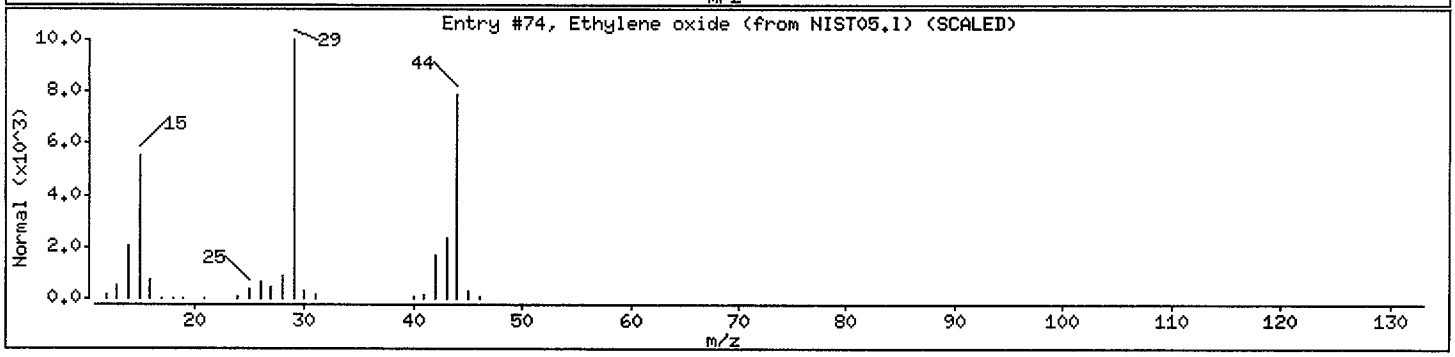
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.092 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.023 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.013 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	96	(57 - 127)
Bromofluorobenzene	82	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #: H6D030169-034 **Work Order #:** H2HCX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Lab Smp Id: H2HCX1AA
Client Smp ID: G-3100-R3-VOST TENA
Inj Date : 07-APR-2006 11:58
Operator : 22980
Inst ID: mz.i
Smp Info : H2HCX1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss
Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51
Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	849416	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	176386	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	231562	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	144416	10.6105	0.26526
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	116410	9.89059	0.24726
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	740920	9.56013	0.23900
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	191300	8.19164	0.20479
15 Bromomethane	94	1.416	1.418	(0.250)	687	0.91016	0.022754
20 1,1-Dichloroethene (ccc)	96	2.073	2.069	(0.365)	846	0.04583	0.0011457
22 Acetone	43	2.116	2.123	(0.373)	568	3.36522	0.084130
23 *Iodomethane	142	2.189	2.184	(0.386)	306	0.53607	0.013402
27 Methylene Chloride	84	2.511	2.513	(0.443)	2055	0.14467	0.0036168
39 *THF	42	4.537	4.532	(0.800)	1187	0.58914	0.014728
45 1,2-Dichloroethane	62	5.681	5.335	(1.001)	13286	0.74903	0 ~~.018726~~
53 4-Methyl-2-pentanone	43	7.463	7.386	(1.315)	5710	0.76988	0 ~~.019247~~
55 trans-1,3-Dichloropropene	75	8.102	7.793	(0.907)	115	0.63250	0 ~~.015812~~

see reprint for (M)

4-14-06

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
69 Bromoform (spcc)	173	10.134	9.782	(1.134)	530	0.98969	~~0.021742~~

DW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 14-Apr-2006 16:47

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Lab Smp Id: H2HCX1AA Client Smp ID: G-3100-R3-VOST TENA
Inj Date : 07-APR-2006 11:58
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCX1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	849416	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	176386	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	231562	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	144416	10.6104	0.26526
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	116410	9.89055	0.24726
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	740920	9.56014	0.23900
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	191300	8.19163	0.20479
15 Bromomethane	94	1.416	1.418	(0.250)	687	0.91009	0.022752
20 1,1-Dichloroethene (ccc)	96	2.073	2.069	(0.365)	846	0.04583	0.0011456
22 Acetone	43	2.116	2.123	(0.373)	2294	3.69533	0.092383(M)
23 *Iodomethane	142	2.189	2.184	(0.386)	306	0.53603	0.013401
27 Methylene Chloride	84	2.511	2.513	(0.443)	2055	0.14466	0.0036164
39 *THF	42	4.537	4.532	(0.800)	1187	0.58897	0.014724

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 14-Apr-2006 16:47

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hcx1aa.d
Lab Smp Id: H2HCX1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3100-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	849416	-10.83
2 Chlorobenzene-d5	164101	82050	328202	176386	7.49
3 1,4 Dichlorobenze	204390	102195	408780	231562	13.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 07-Apr-2006 12:15

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2HCX1AA
Client Smp ID: G-3100-R3-VOST TENA
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

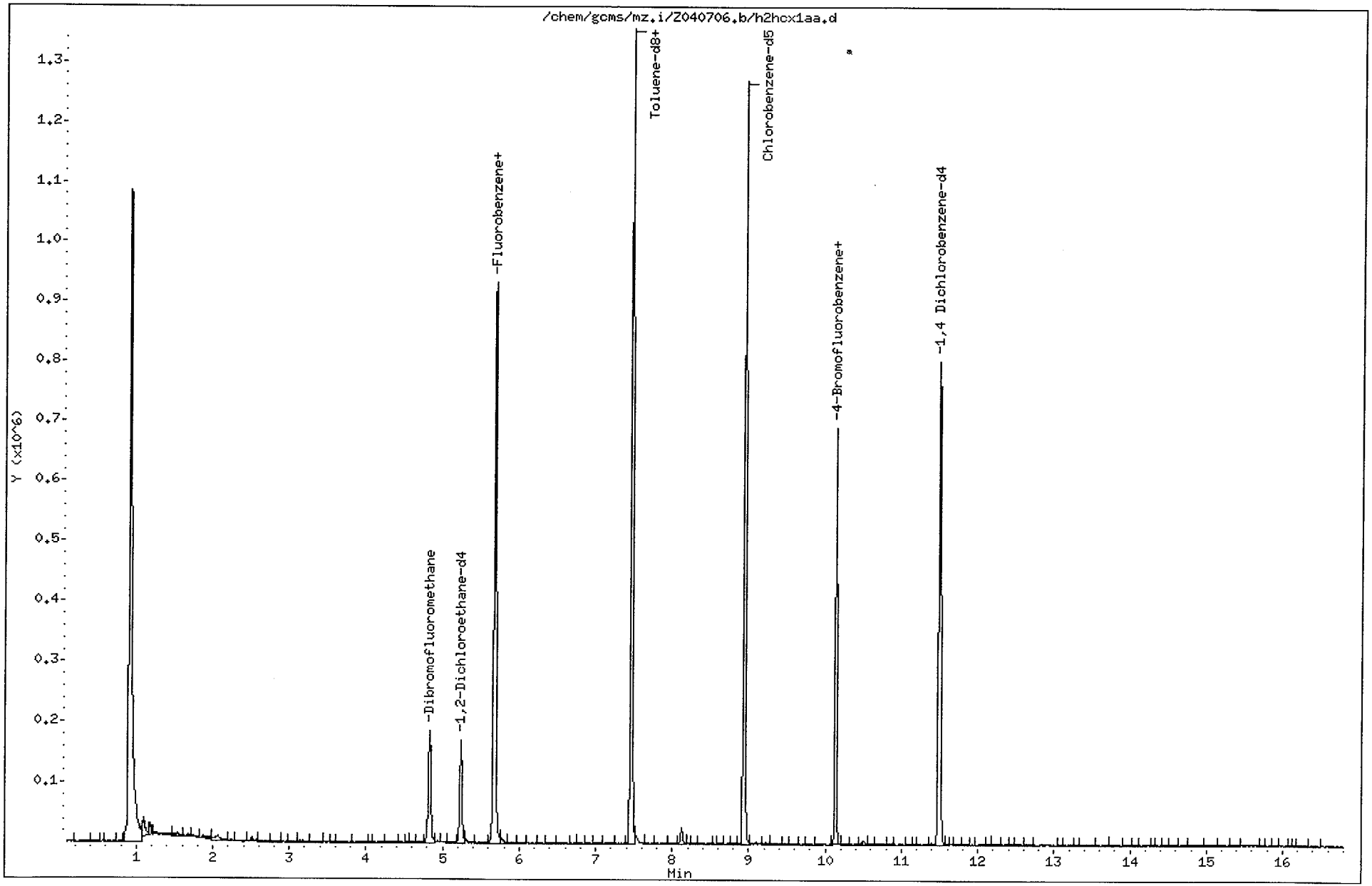
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26526	106.11	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24726	98.91	50-150
$ 6 Toluene-d8	0.25000	0.23900	95.60	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20479	81.92	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Date : 07-APR-2006 11:58
Client ID: G-3100-R3-VOST TENA
Sample Info: H2HCX1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

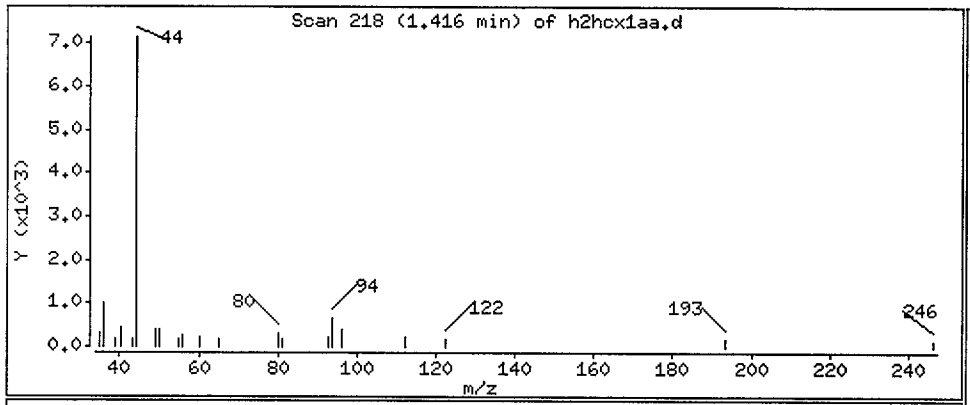
Operator: 22980

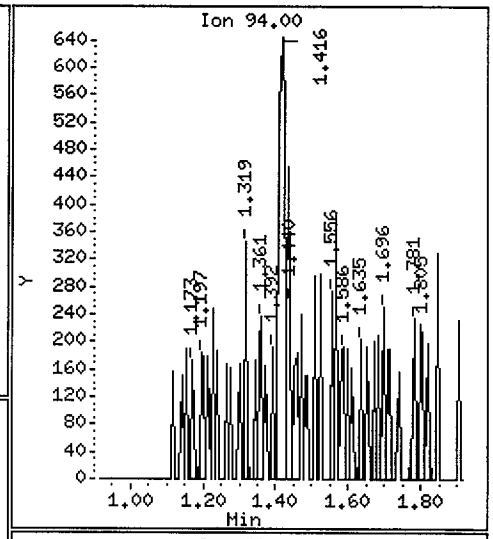
Column phase: J+W 624

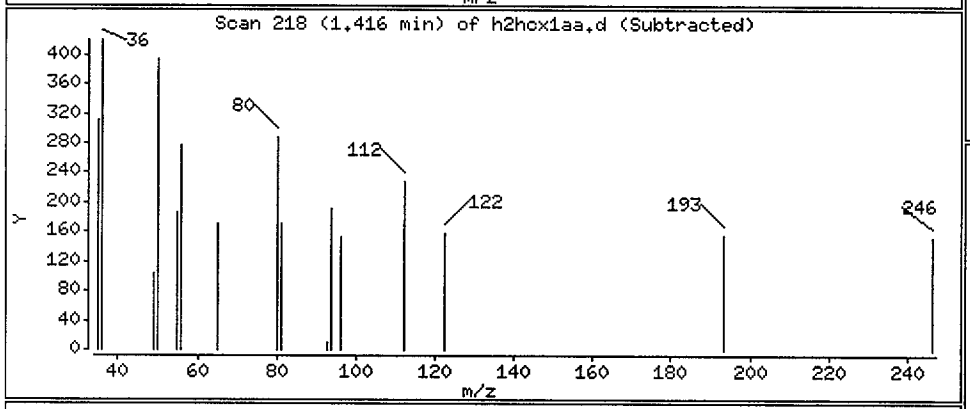
Column diameter: 0.18

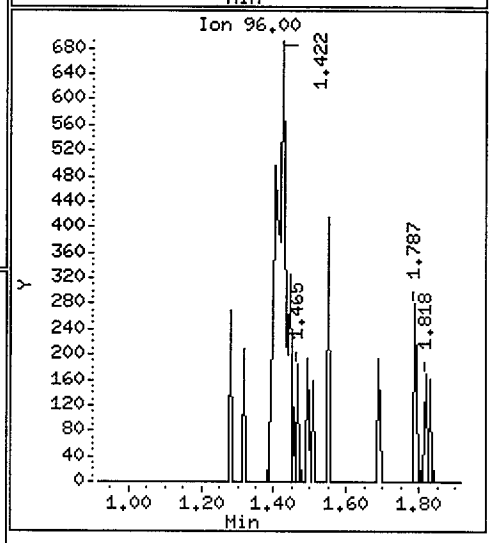
15 Bromomethane

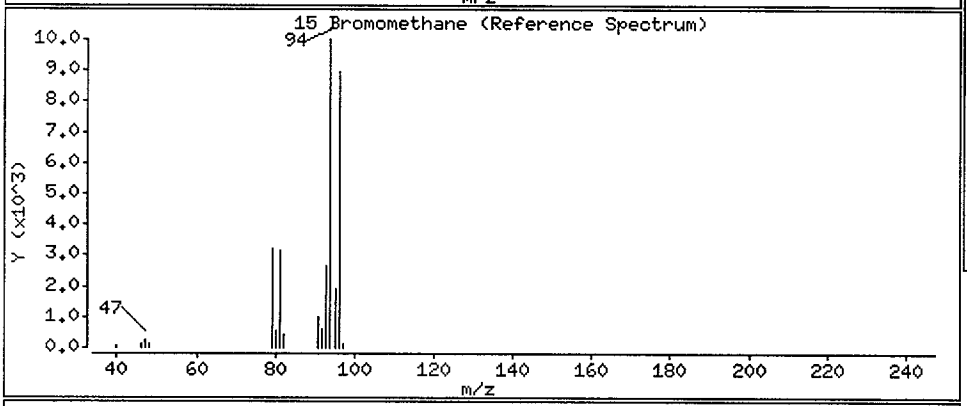
Concentration: 0.022754 ug

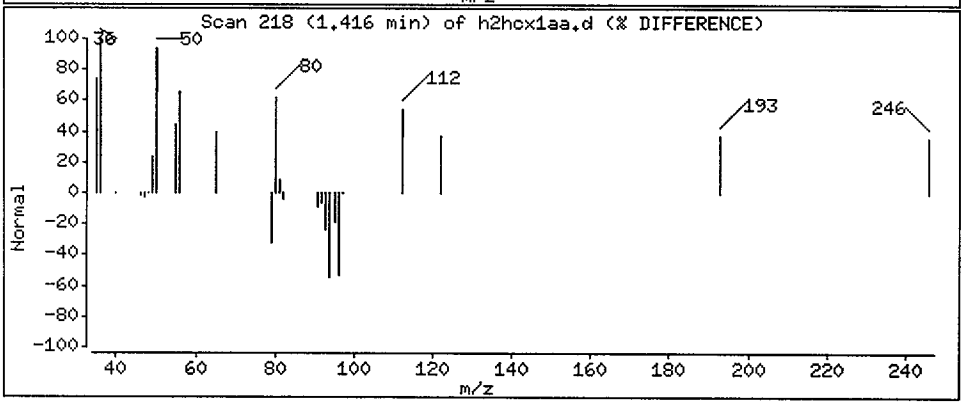












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

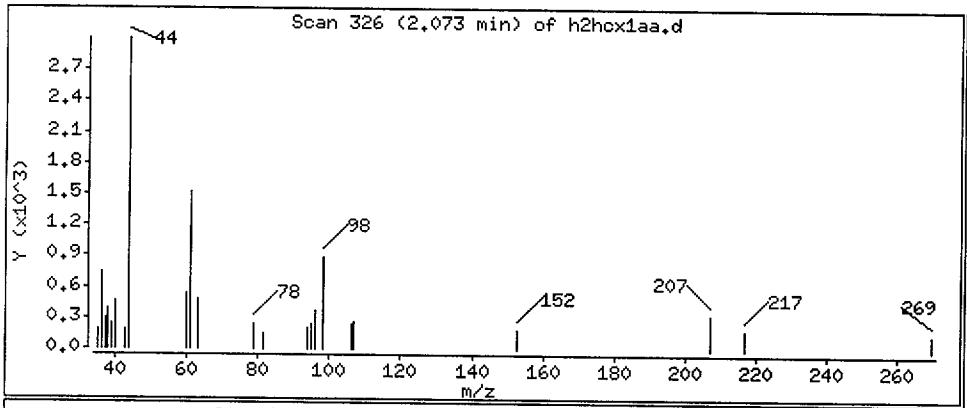
Operator: 22980

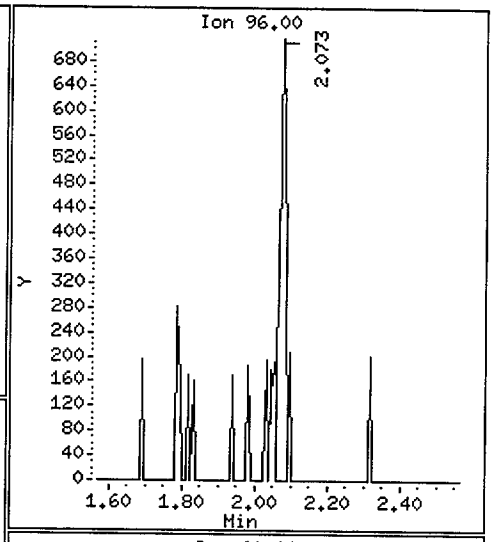
Column phase: J+W 624

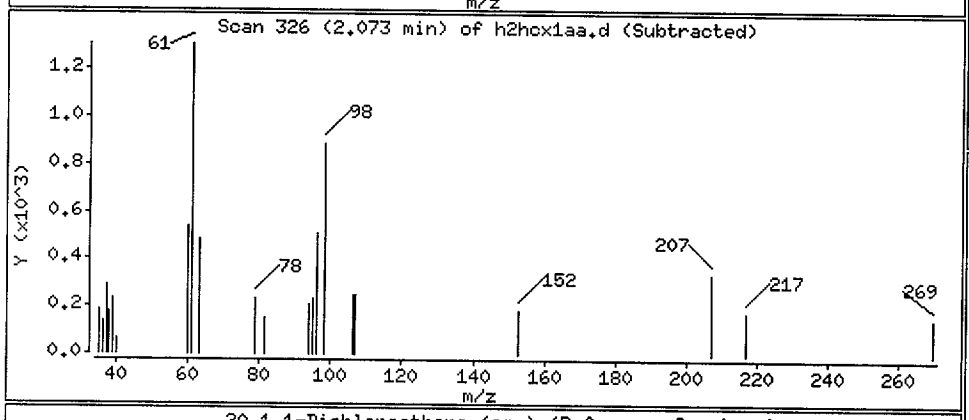
Column diameter: 0.18

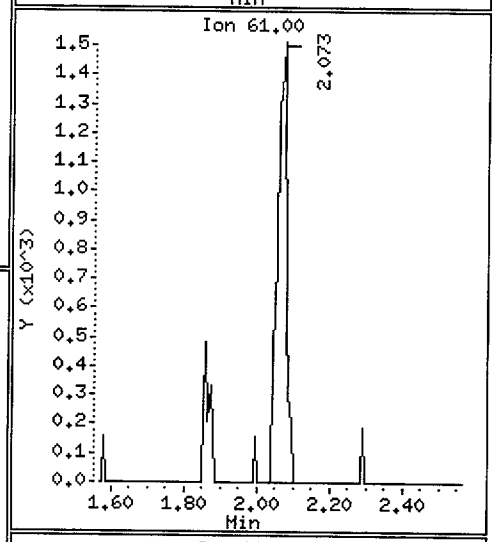
20 1,1-Dichloroethene (ccc)

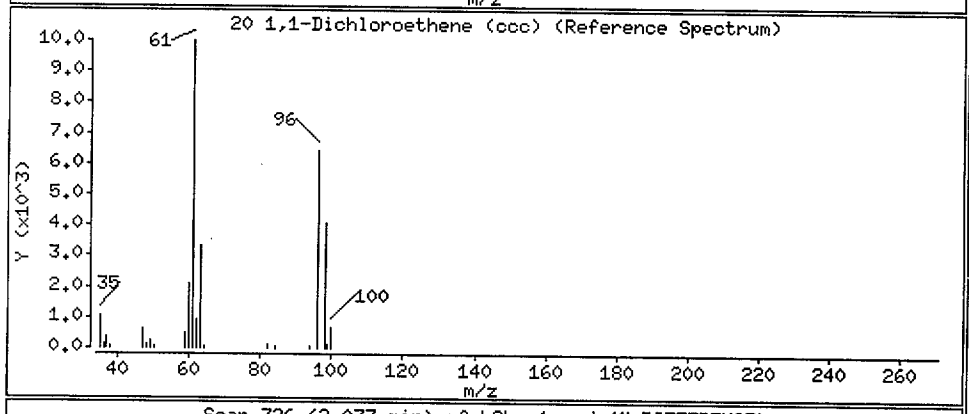
Concentration: 0.0011457 ug

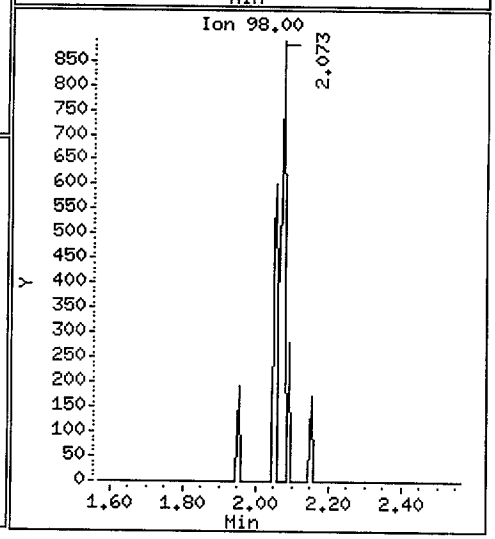


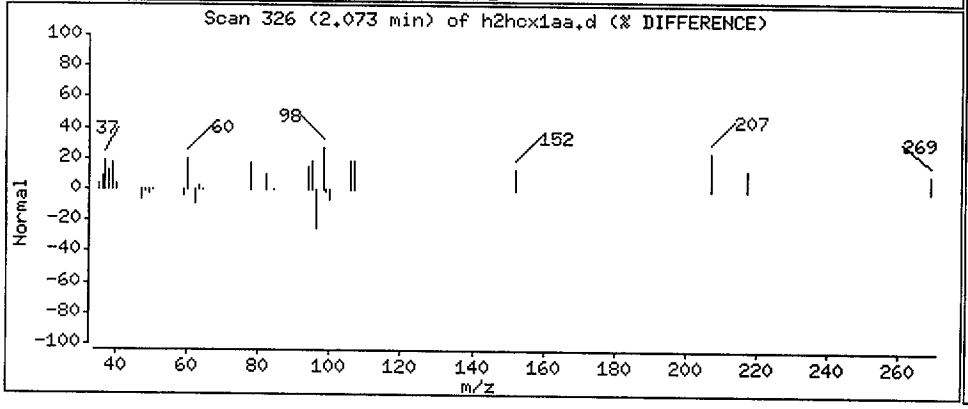












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

DLW 4-14-06
(D)

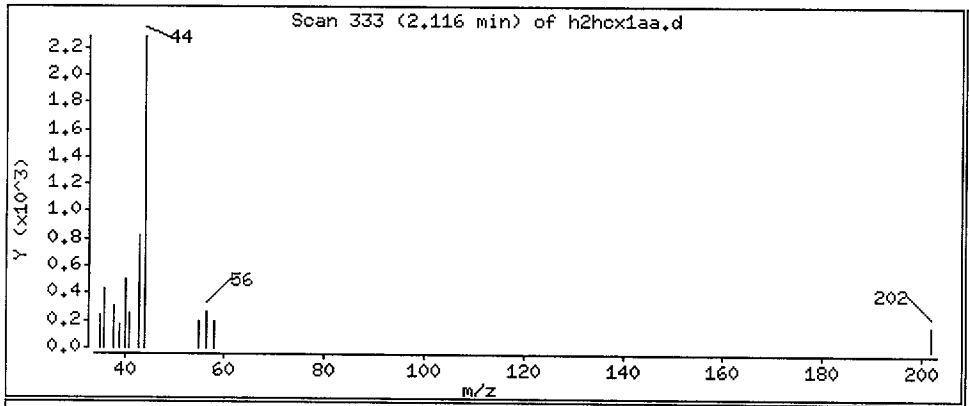
Operator: 22980

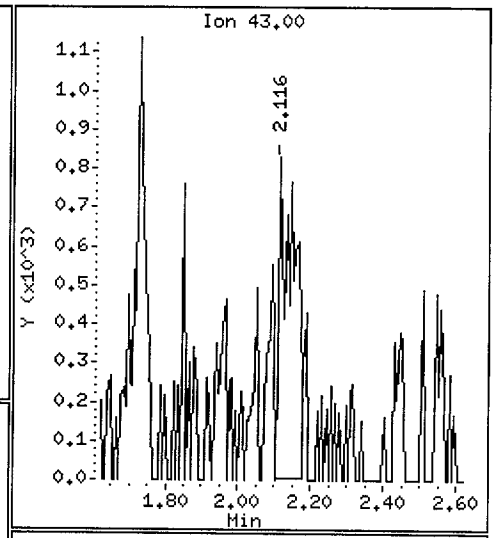
Column phase: J+W 624

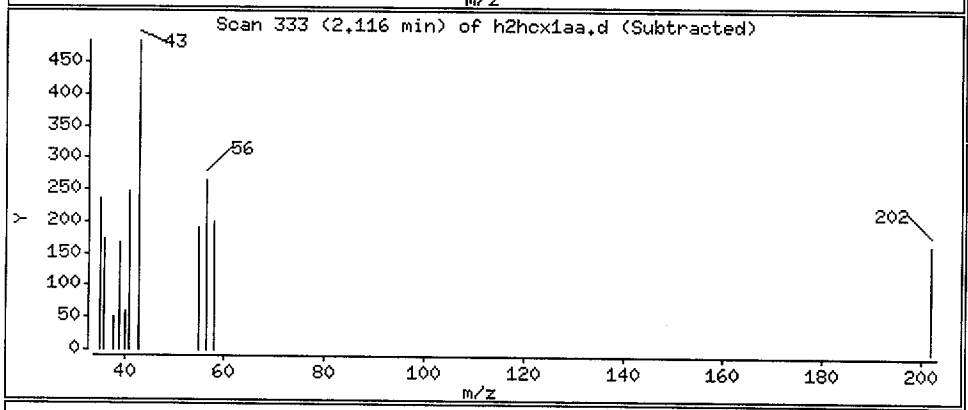
Column diameter: 0.18

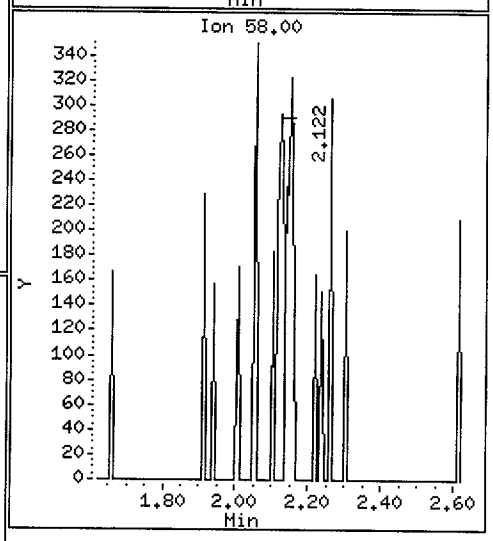
22 Acetone

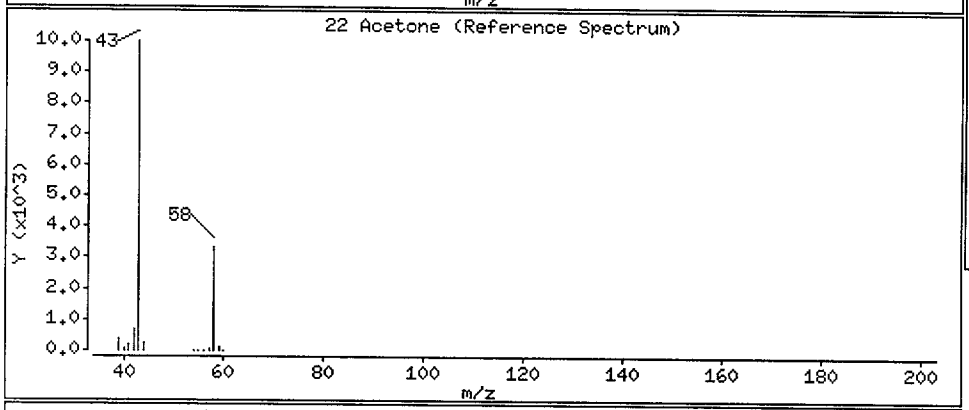
Concentration: 0.092383 ug

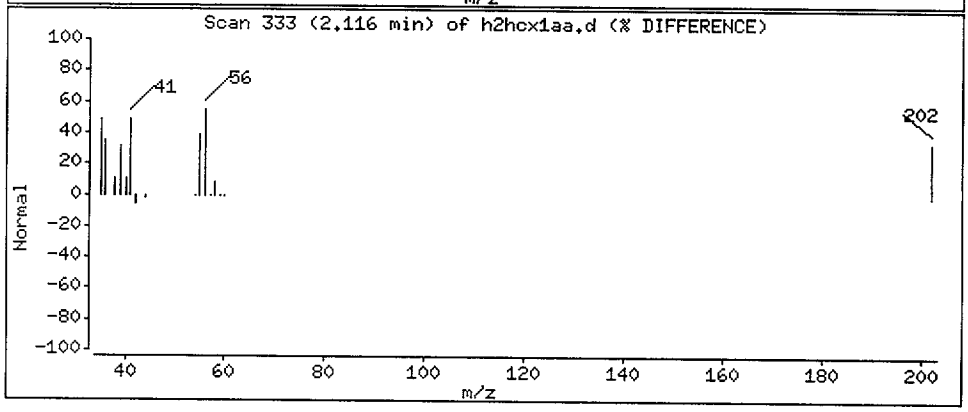












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

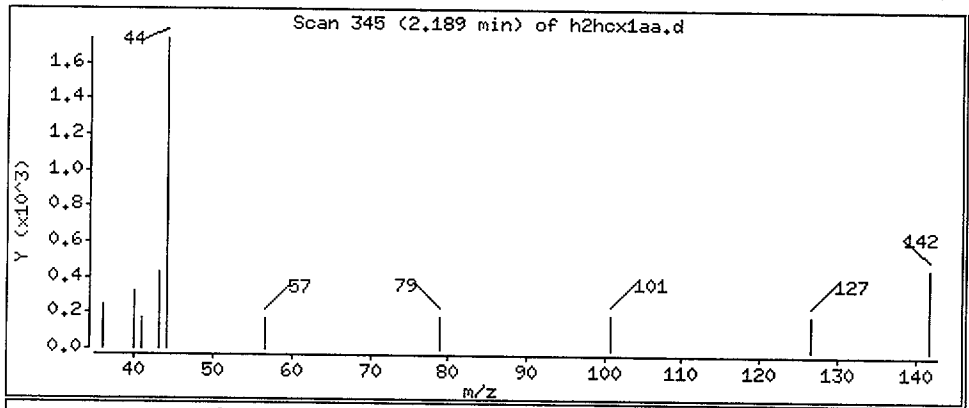
Operator: 22980

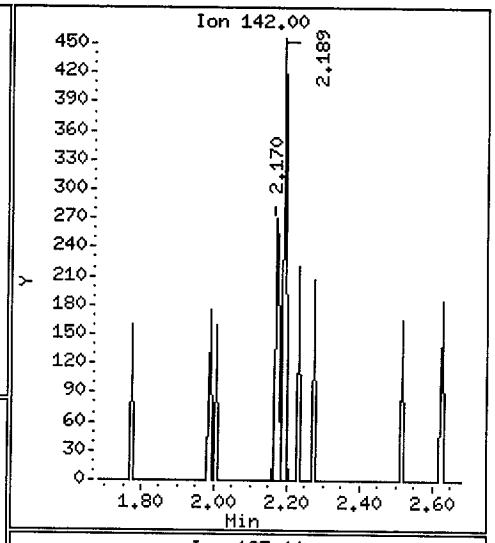
Column phase: J+W 624

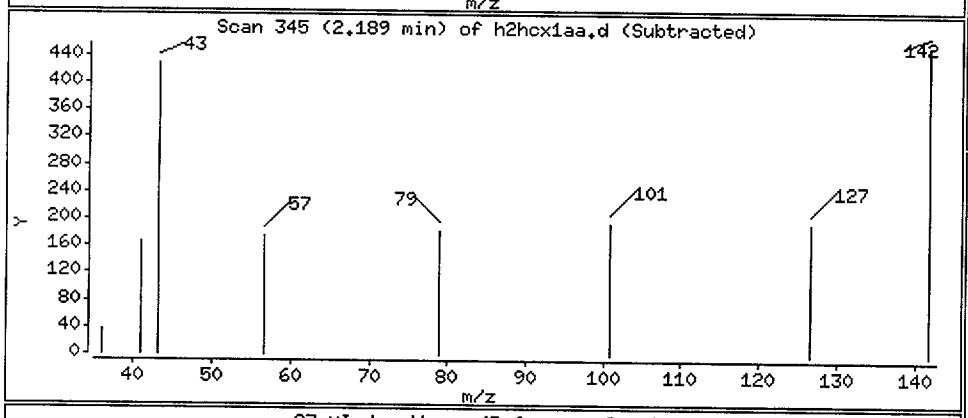
Column diameter: 0.18

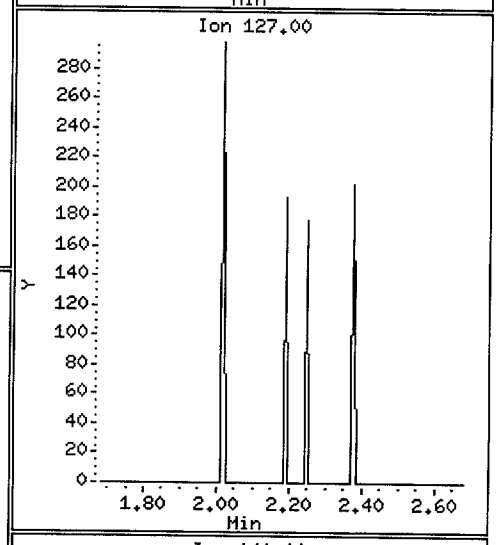
23 *Iodomethane

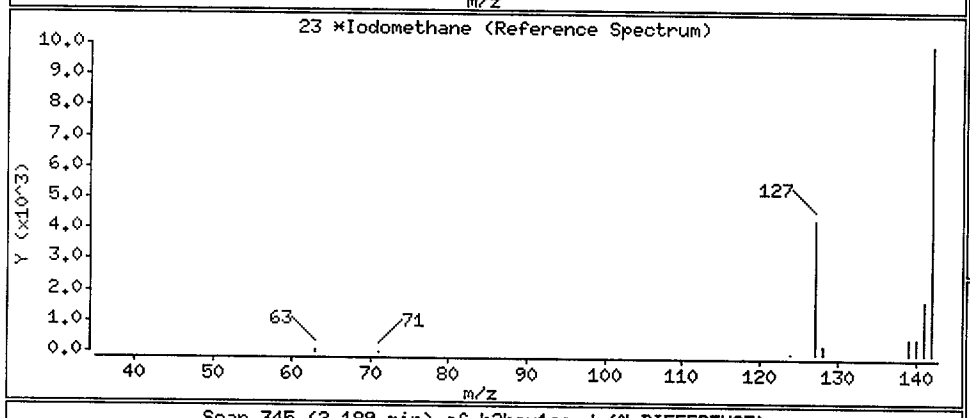
Concentration: 0.013402 ug

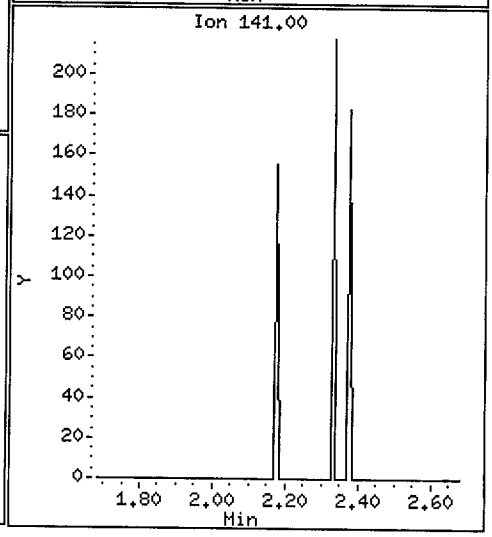


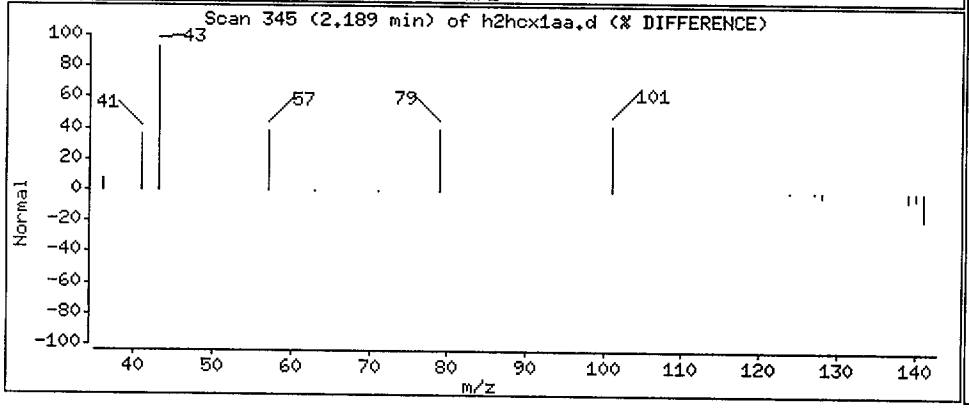












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

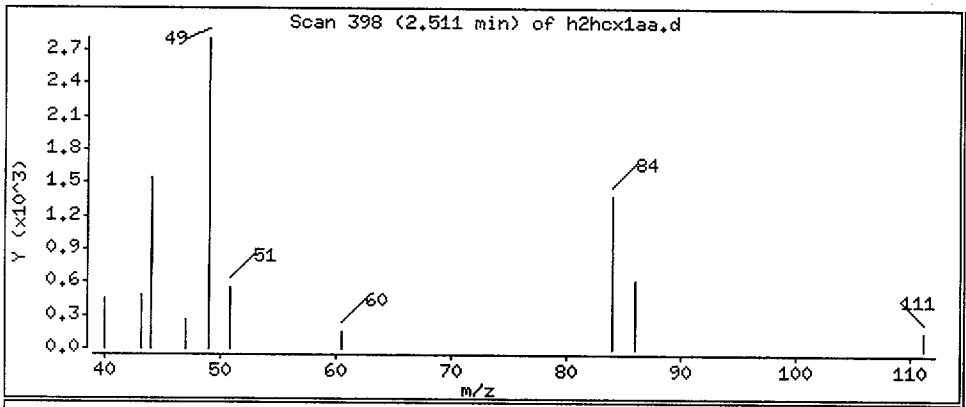
Operator: 22980

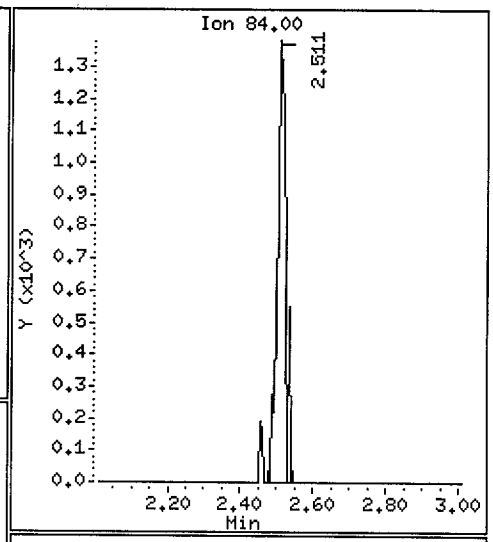
Column phase: J+W 624

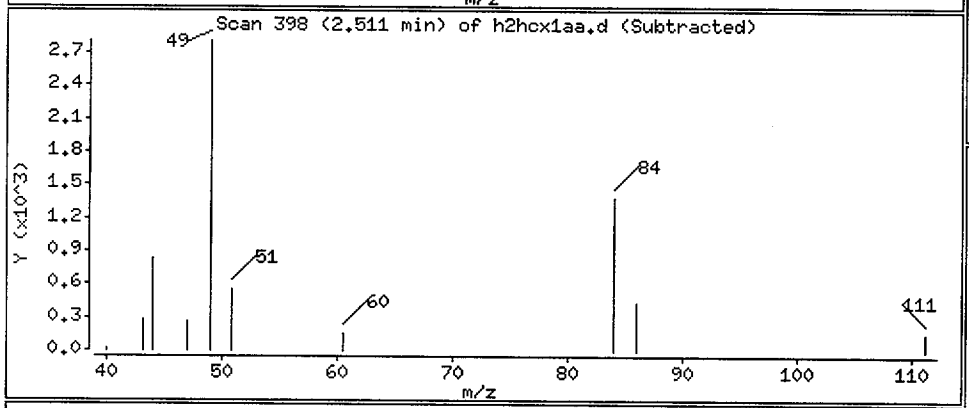
Column diameter: 0.18

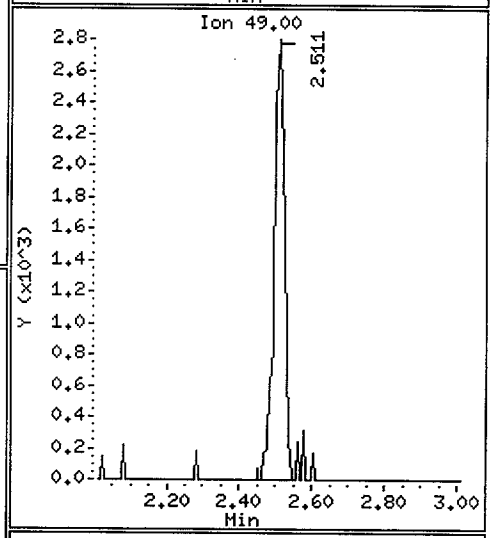
27 Methylene Chloride

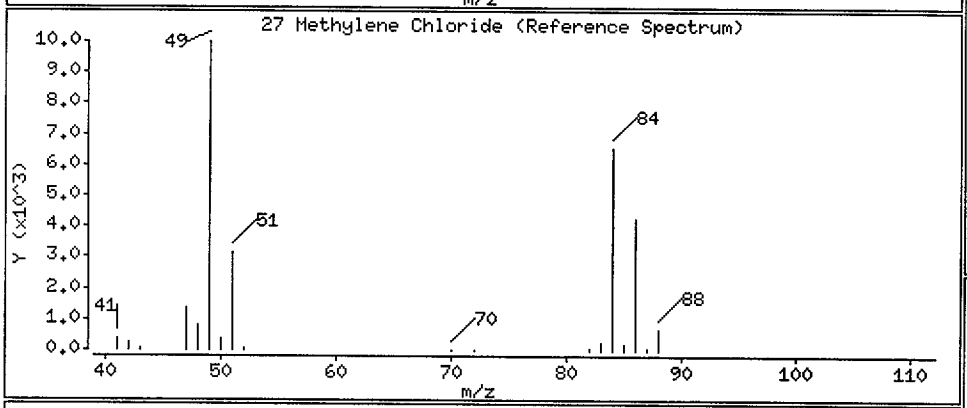
Concentration: 0.0036168 ug

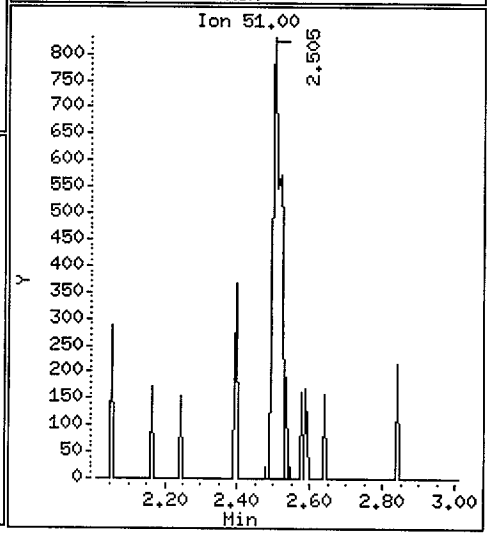


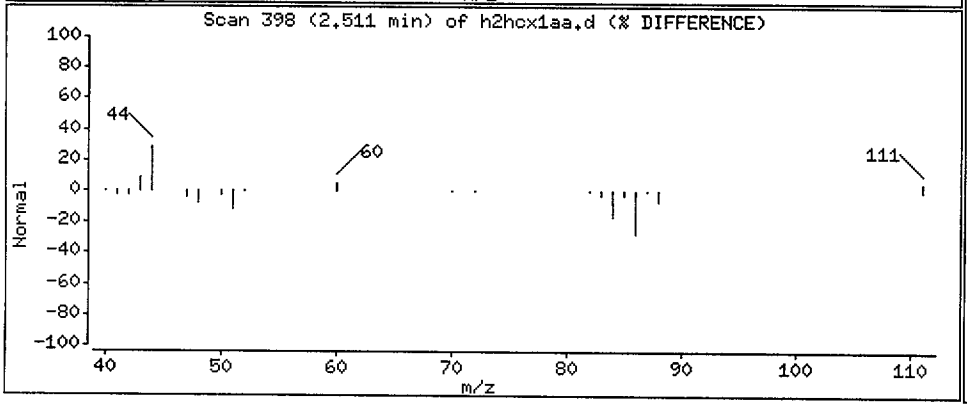












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

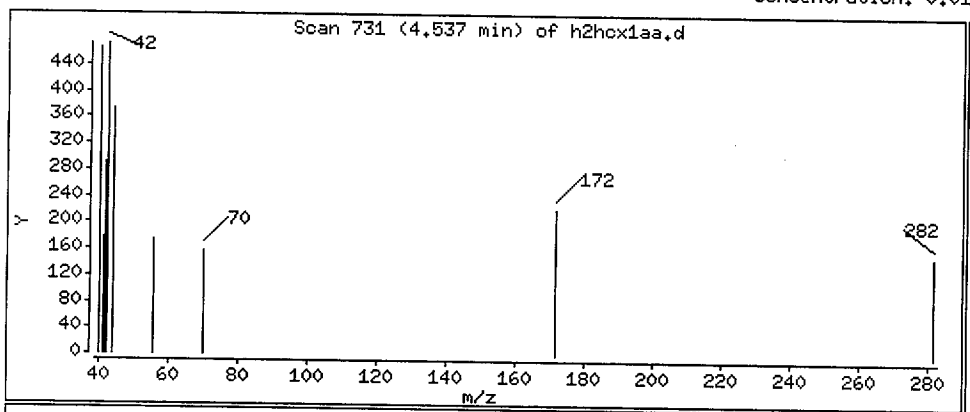
Operator: 22980

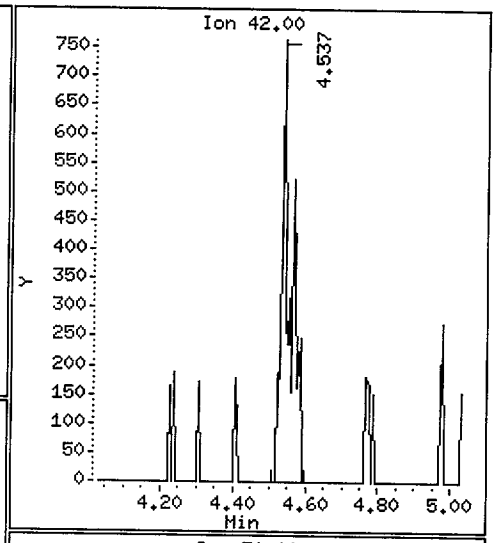
Column phase: J+W 624

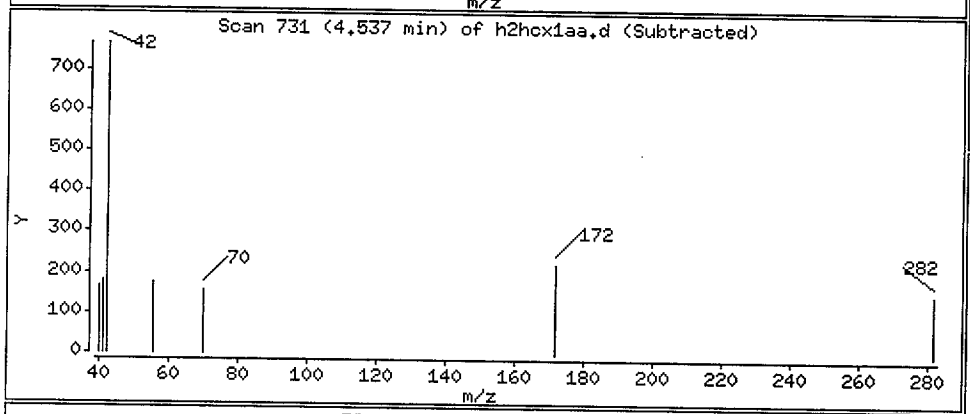
Column diameter: 0.18

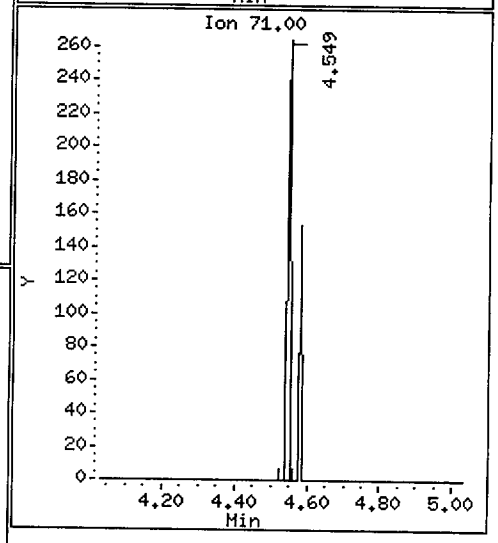
39 *THF

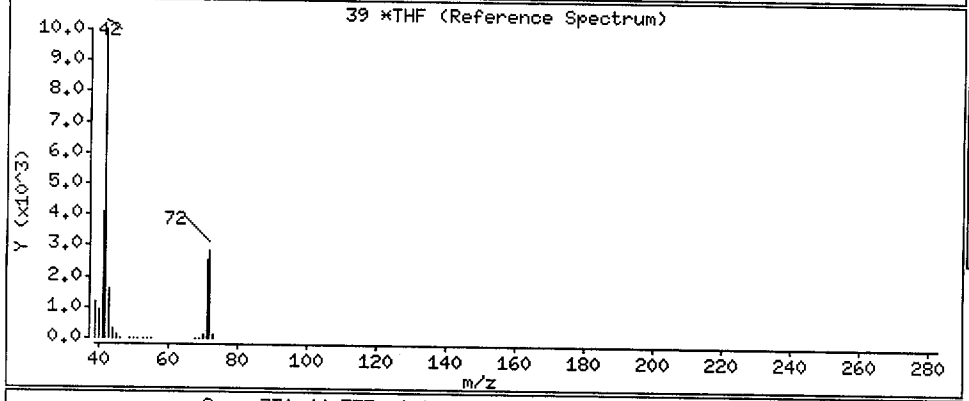
Concentration: 0.014728 ug

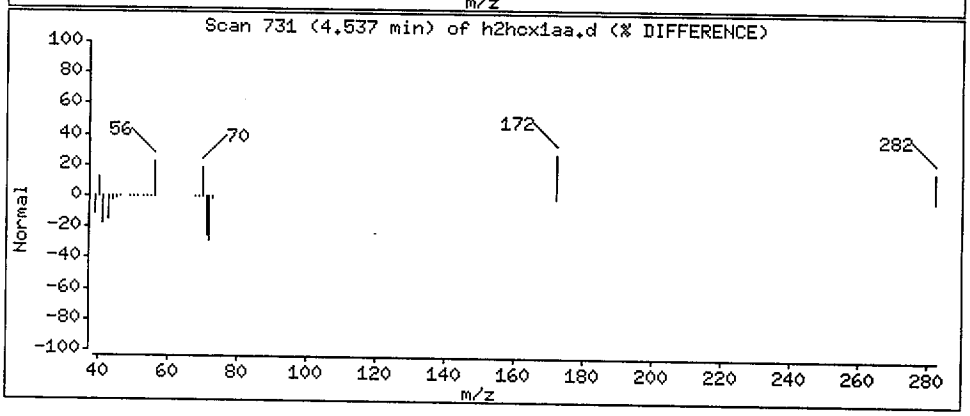












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

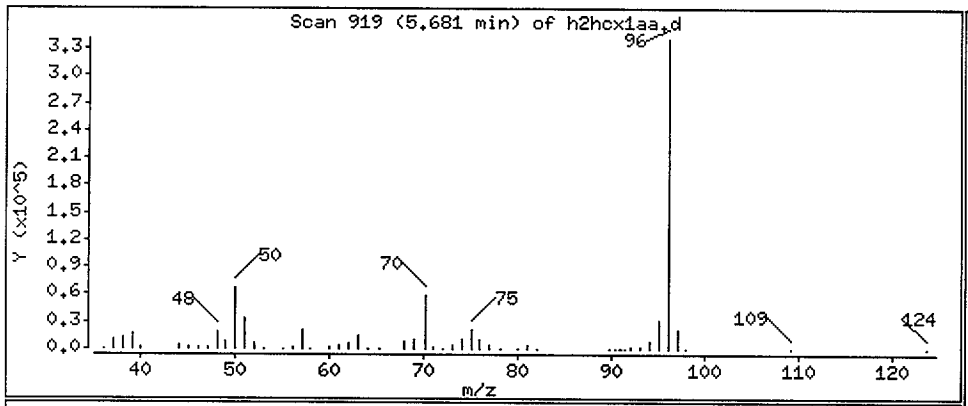
Operator: 22980

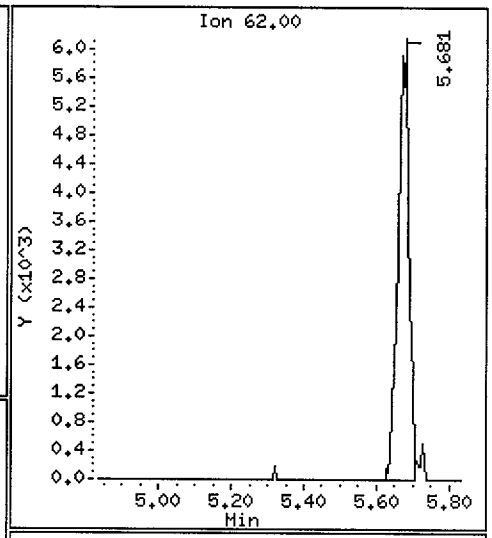
Column phase: J+W 624

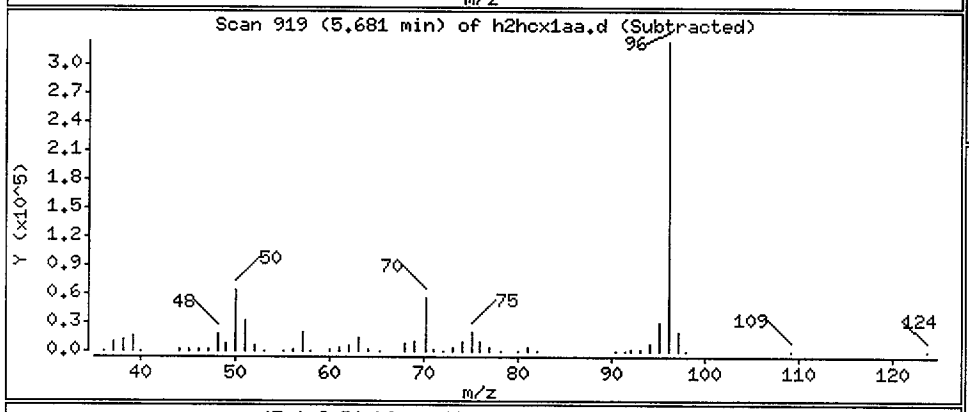
Column diameter: 0.18

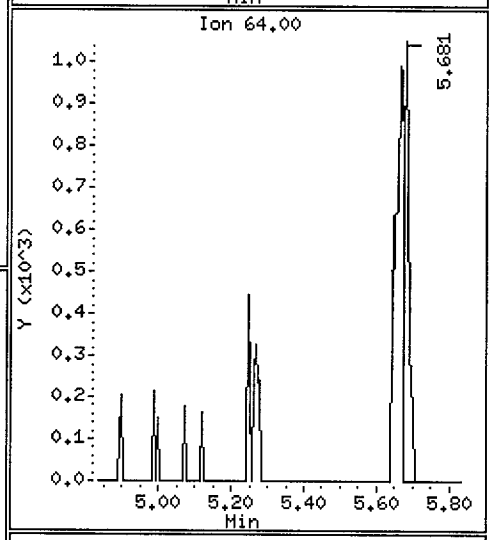
45 1,2-Dichloroethane

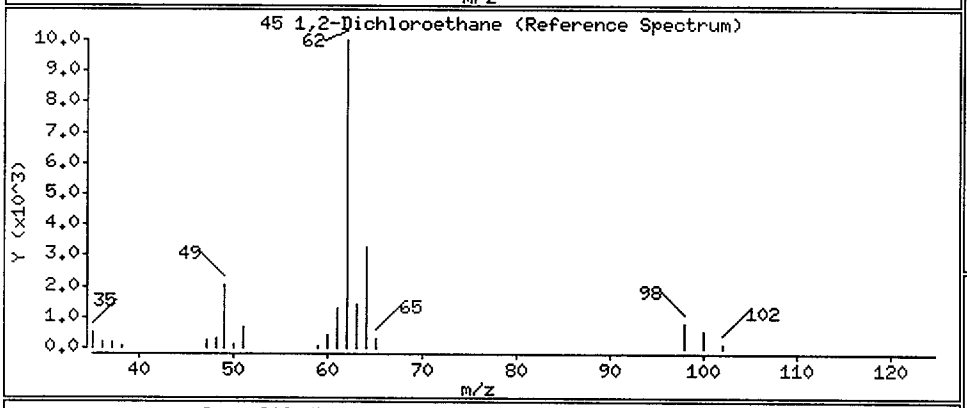
Concentration: 0.018726 ug

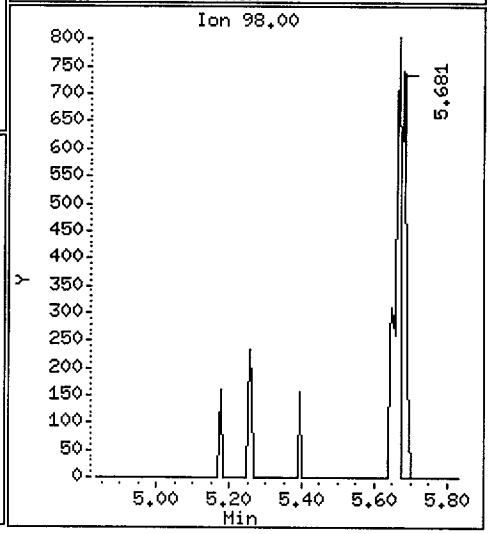


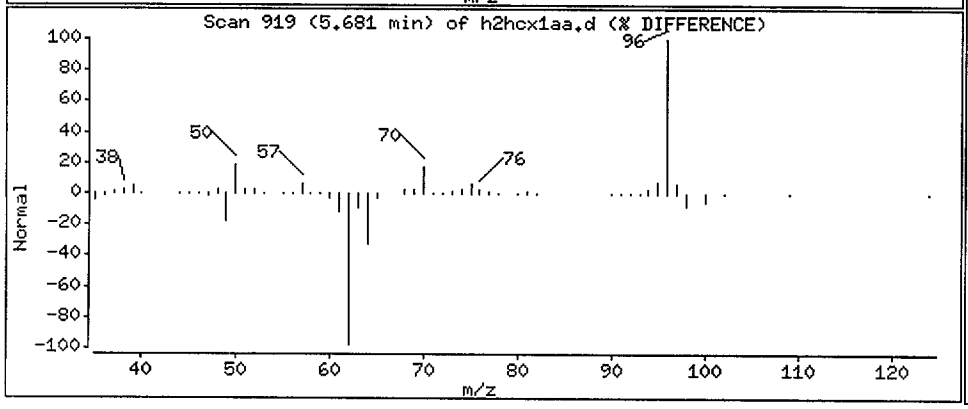












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

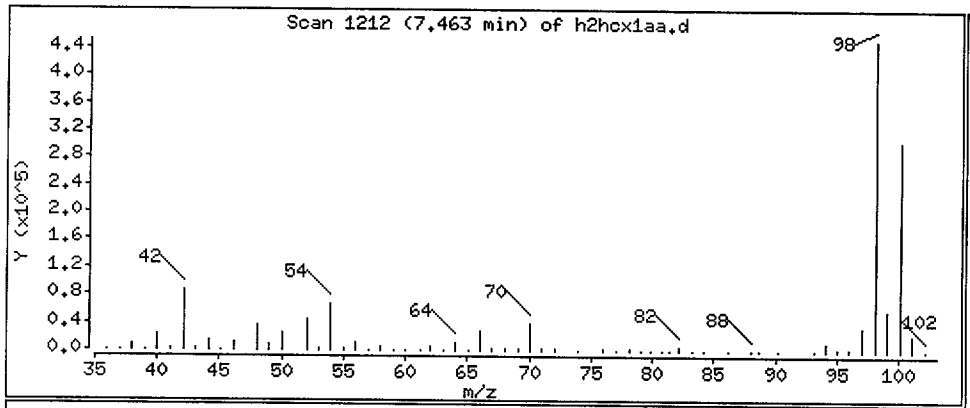
Operator: 22980

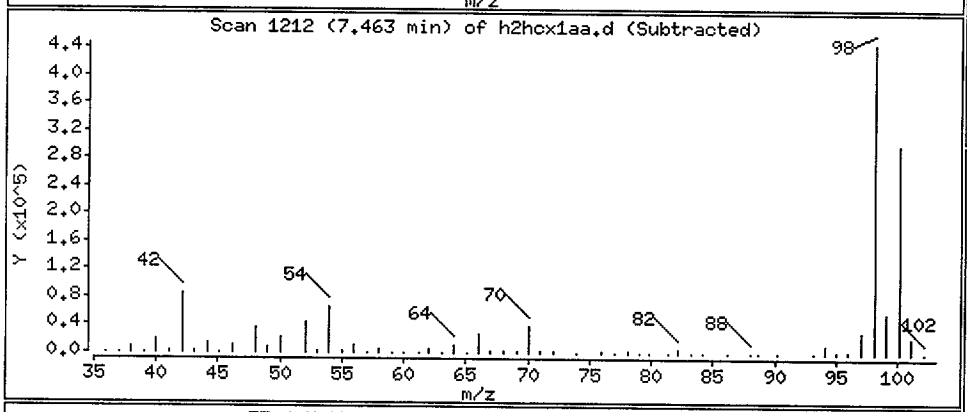
Column phase: J+W 624

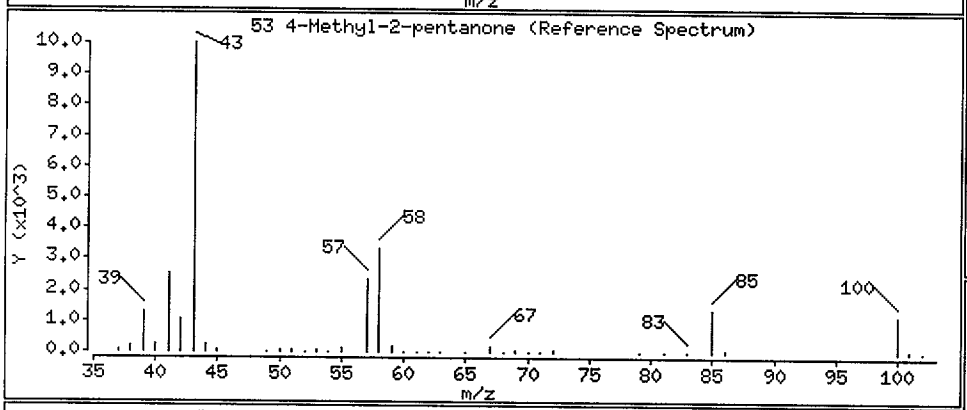
Column diameter: 0.18

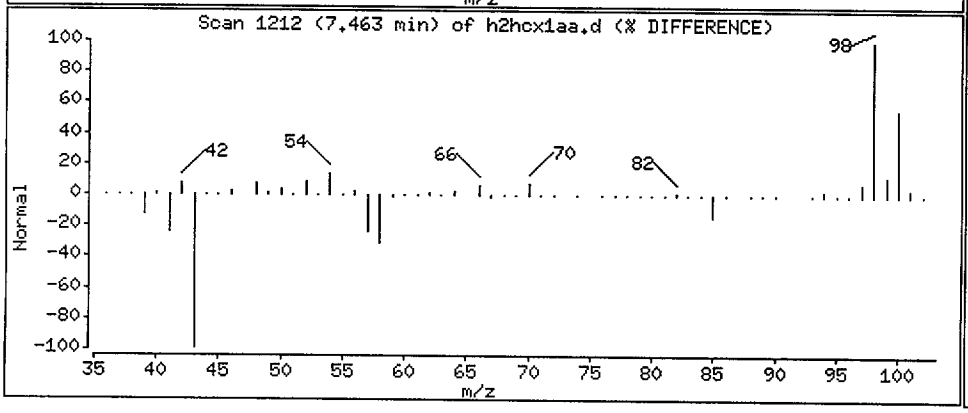
53 4-Methyl-2-pentanone

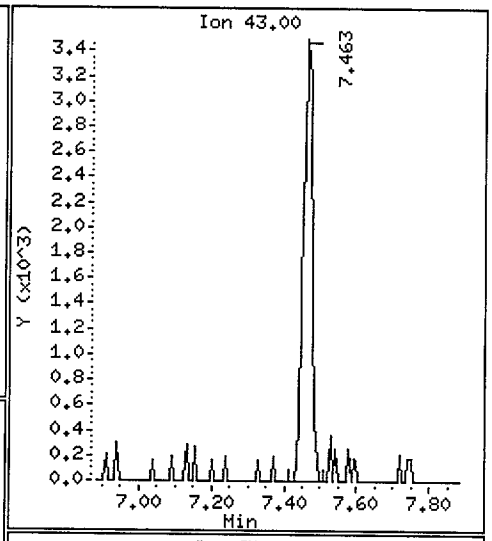
Concentration: 0.019247 ug

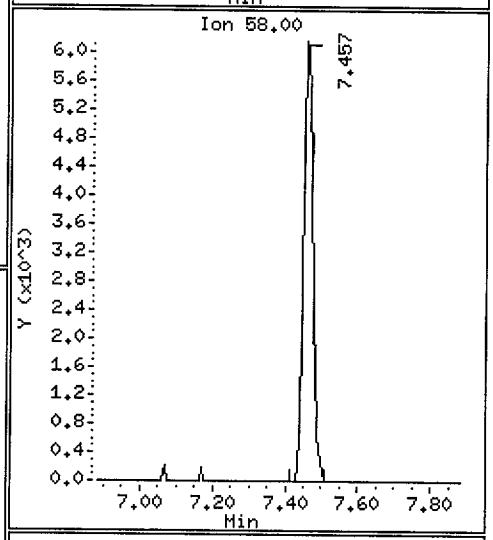


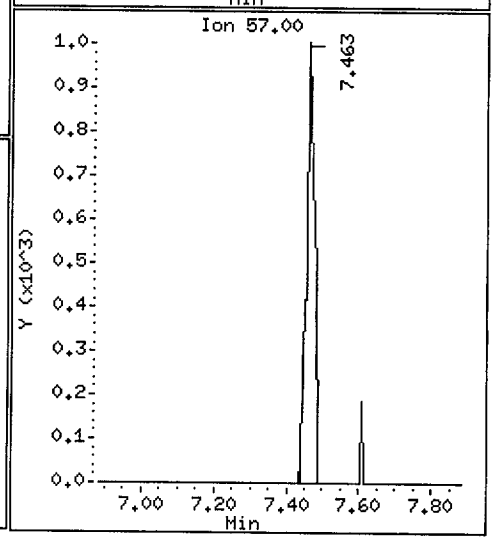












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

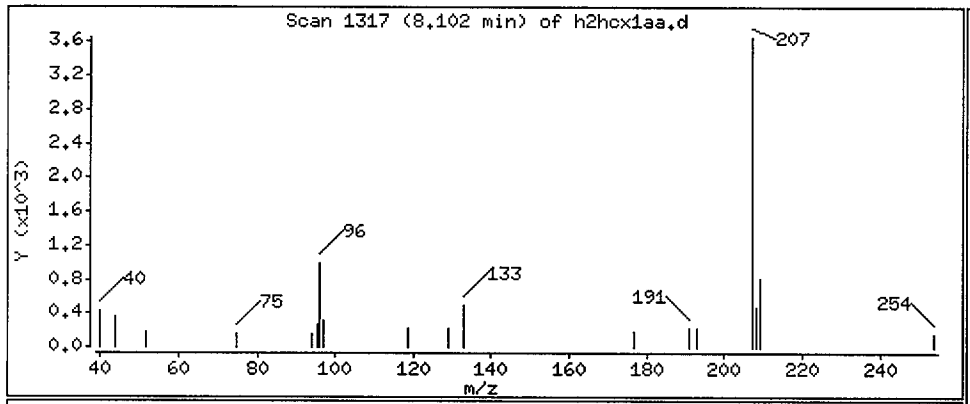
Operator: 22980

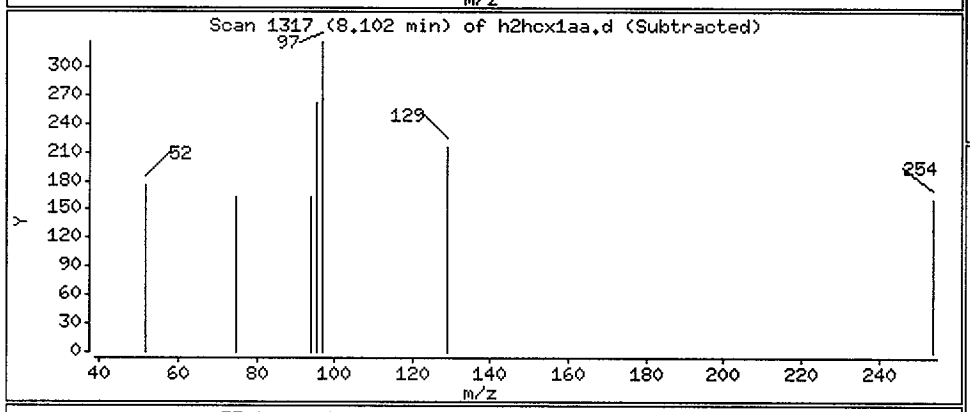
Column phase: J+W 624

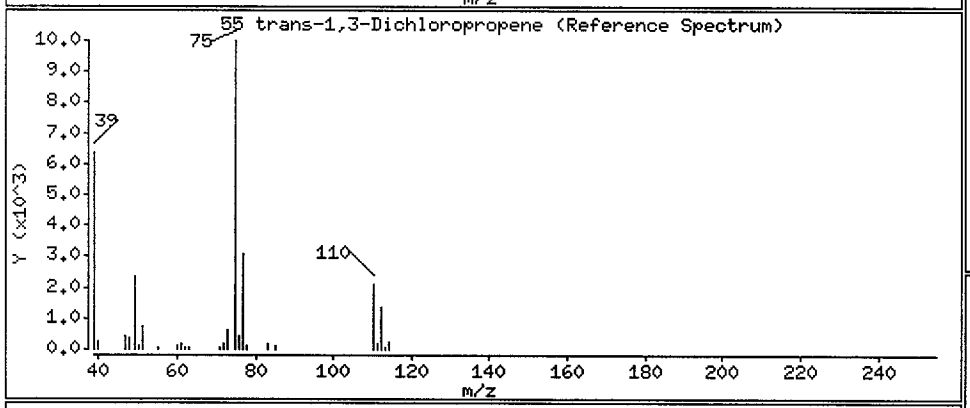
Column diameter: 0.18

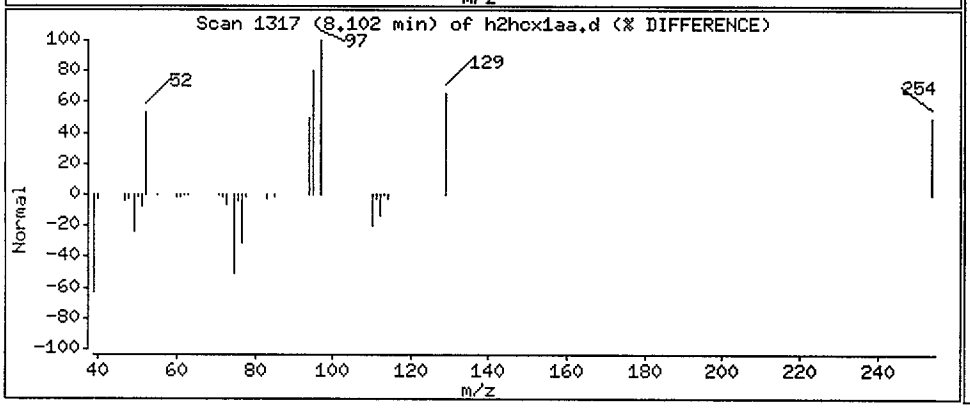
55 trans-1,3-Dichloropropene

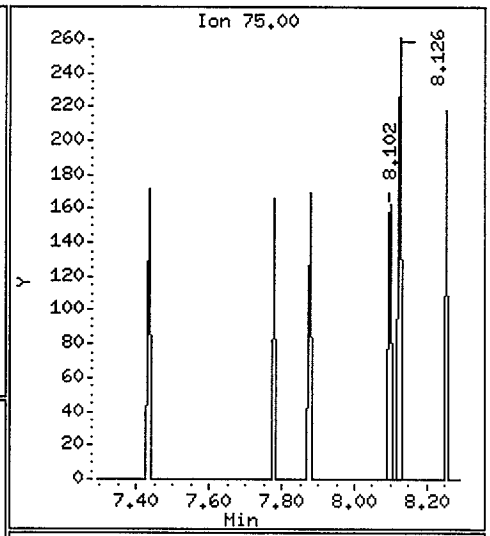
Concentration: 0.015812 ug

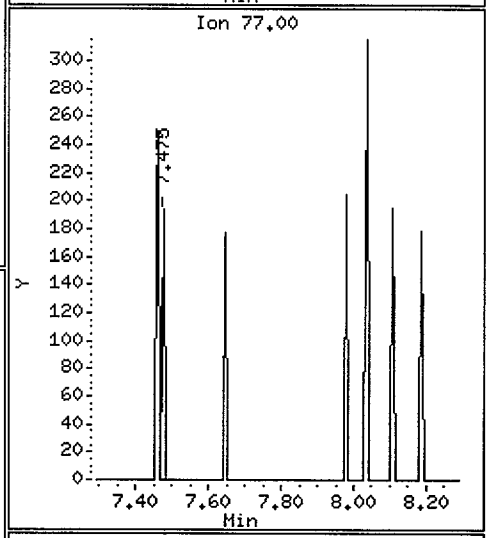


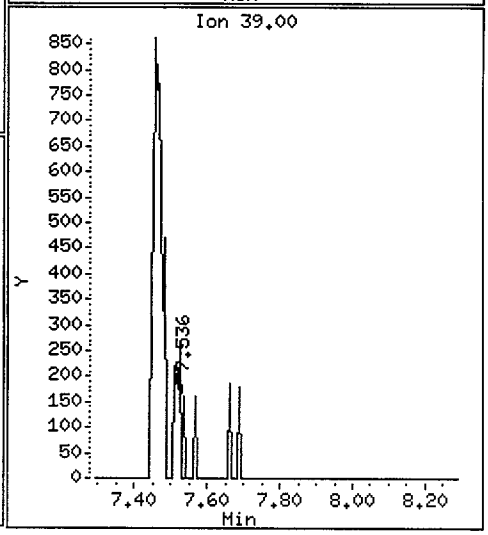












Data File: /chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HCX1AA,1,0,,

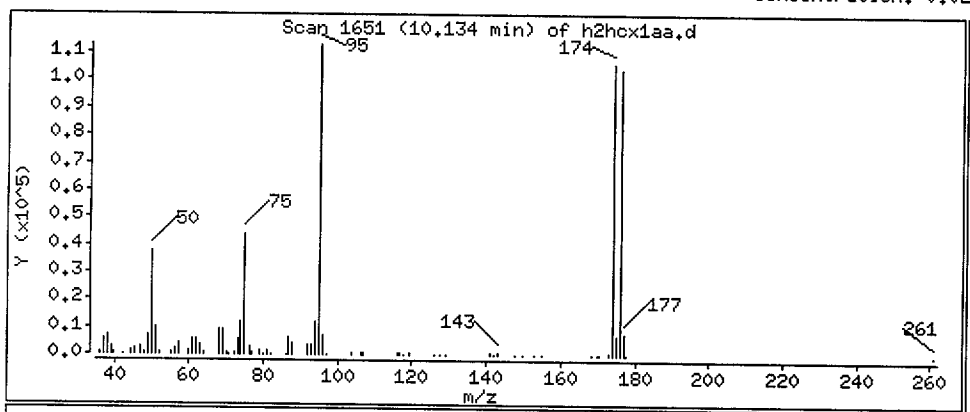
Operator: 22980

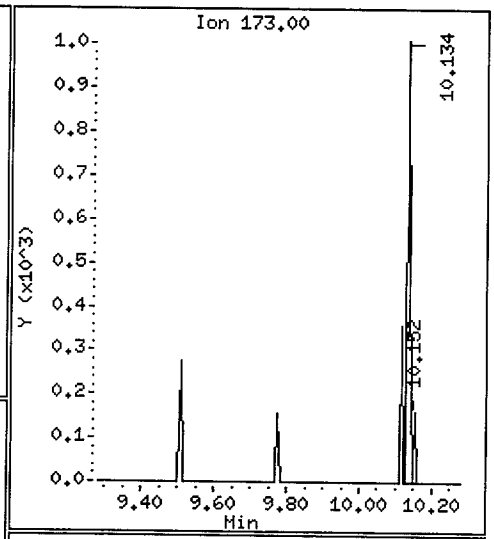
Column phase: J+W 624

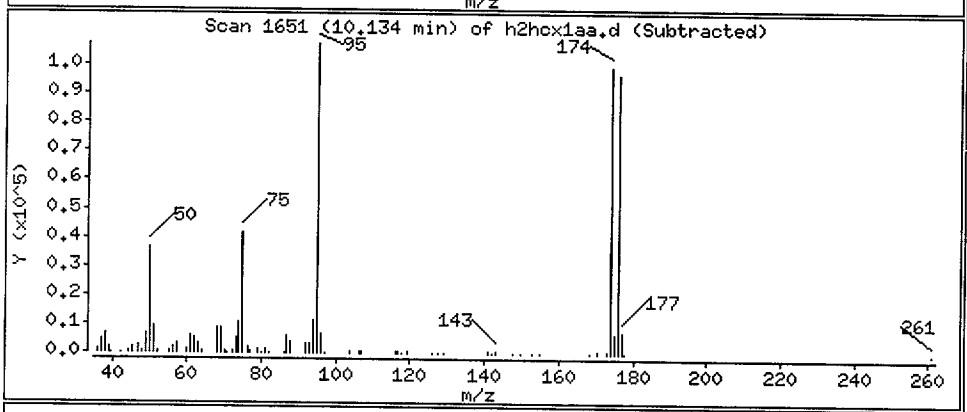
Column diameter: 0.18

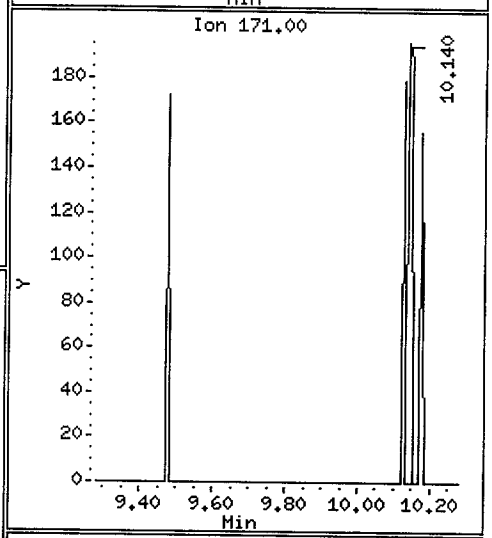
69 Bromoform (spcc)

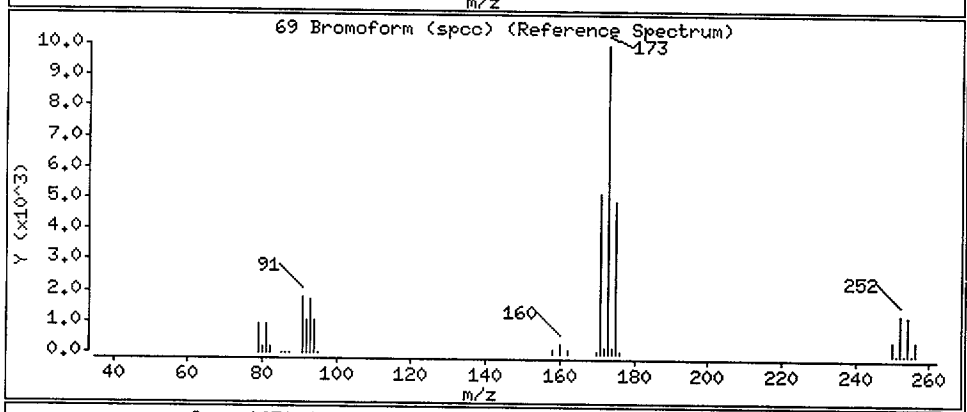
Concentration: 0.024742 ug

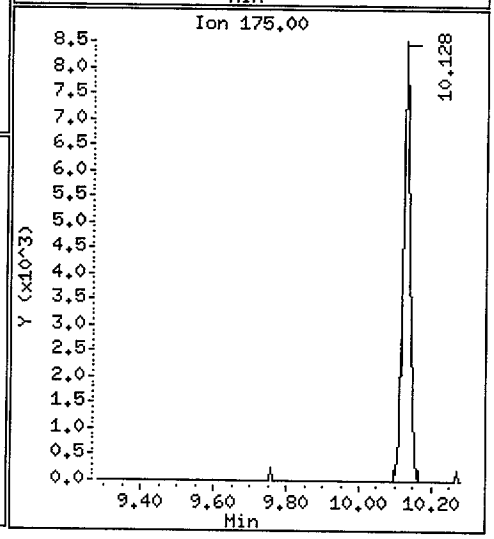


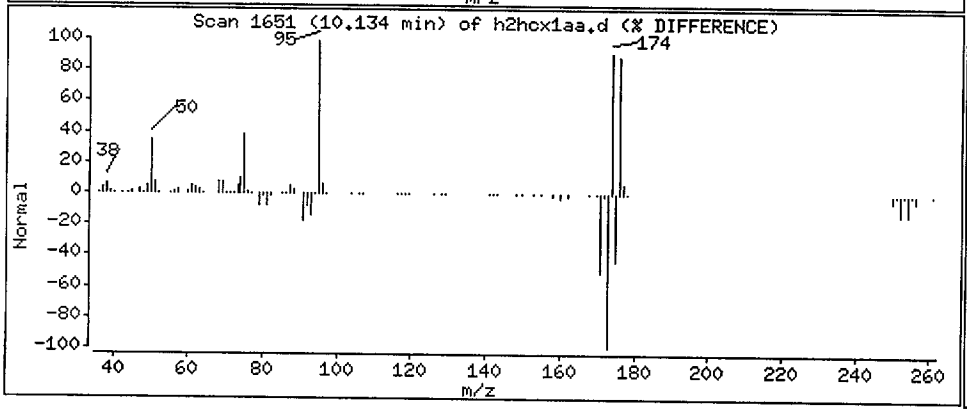












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Report Date: 14-Apr-2006 17:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d
Lab Smp Id: H2HCX1AA Client Smp ID: G-3100-R3-VOST TENA
Inj Date : 07-APR-2006 11:58
Operator : 22980 Inst ID: mz.i
Smp Info : H2HCX1AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	931425	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.905	1084553	11.6440186	0.29110	5	NIST05.l	80	1

CO2

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hcx1aa.d

Date : 07-APR-2006 11:58

Client ID: G-3100-R3-VOST TENA

Instrument: mz.i

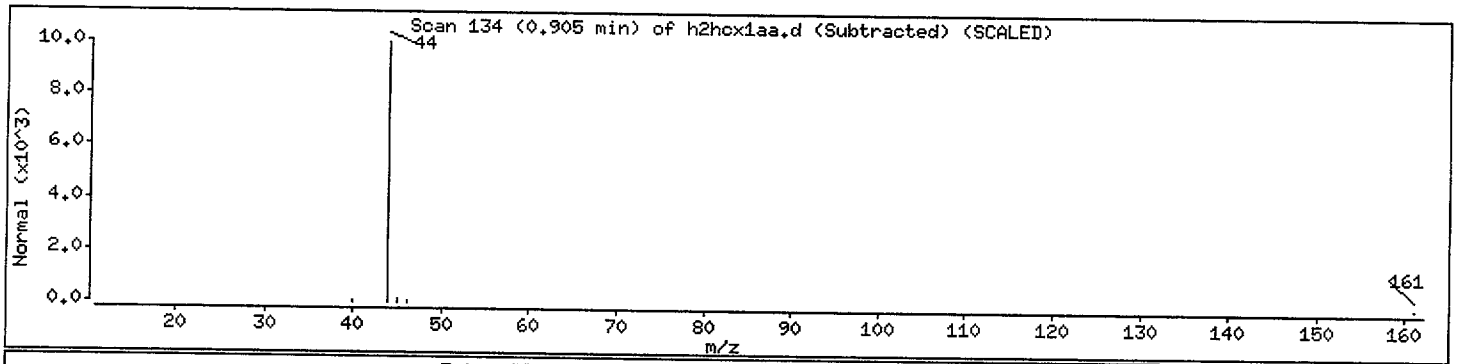
Sample Info: H2HCX1AA,1,0,,

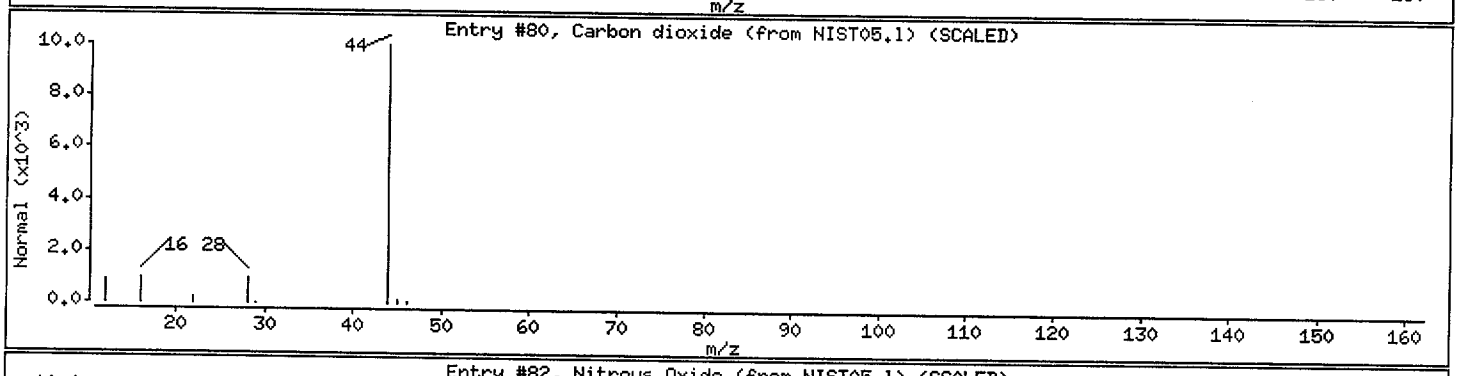
Operator: 22980

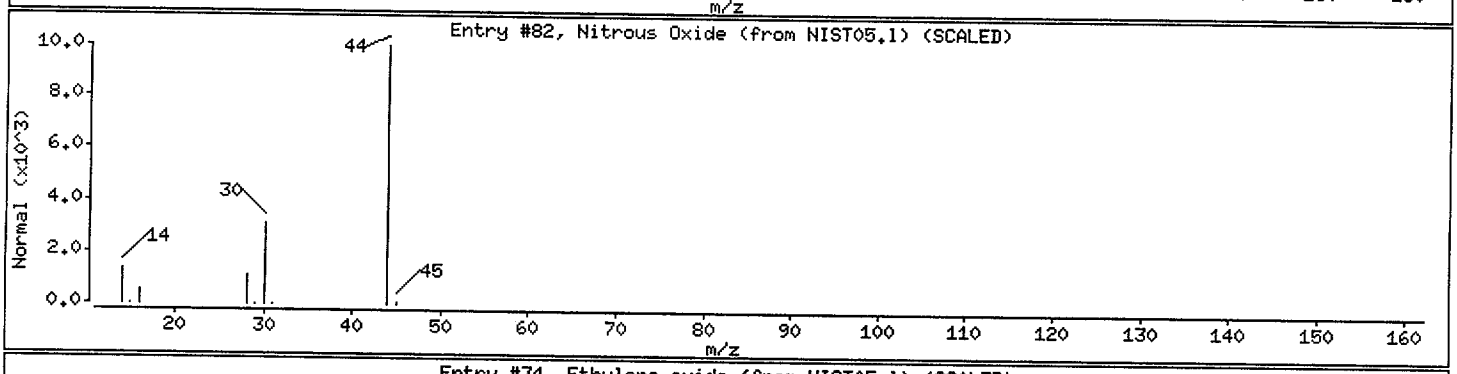
Column phase: J+W 624

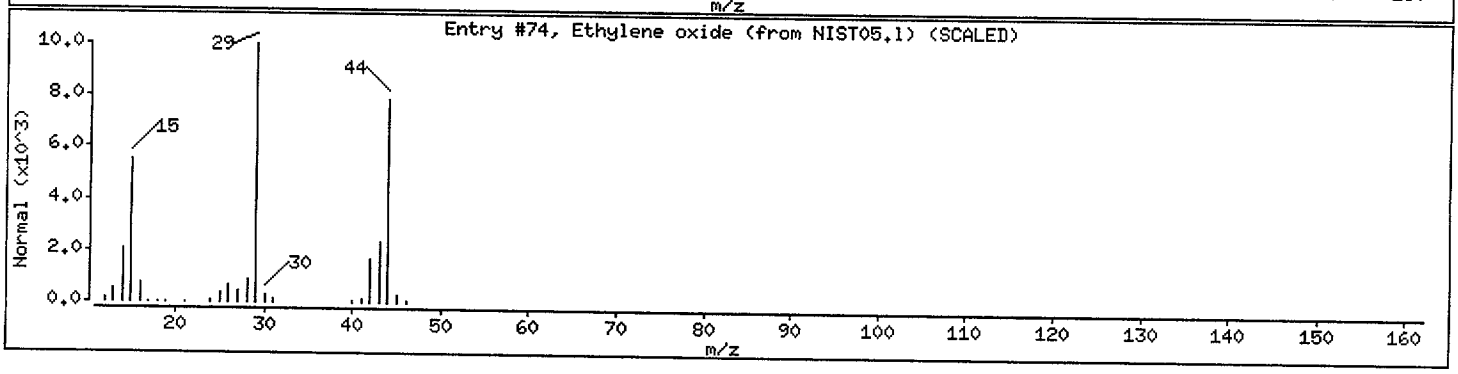
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.093 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.029**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	78	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #: H6D030169-035 **Work Order #:** H2HC01AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 07-Apr-2006 11:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Lab Smp Id: H2HC01AA Client Smp ID: G-3101-R3-VOST TENA
Inj Date : 07-APR-2006 11:34
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC01AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/07/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	863482	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	179067	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	239706	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	142263	10.2820	0.25705
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	115565	9.65885	0.24147
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	741033	9.41841	0.23546
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	188736	7.80727	0.19518
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	84070	1.16339	0.029085
15 Bromomethane	94	1.422	1.418	(0.251)	1909	1.04157	0.026039
22 Acetone	43	2.122	2.123	(0.374)	1557	3.54714	0.088679 - See reprint for (w)
23 *Iodomethane	142	2.183	2.184	(0.385)	1458	0.58703	0.014676
39 *THF	42	4.555	4.532	(0.803)	824	0.40246	0.010061
45 1,2-Dichloroethane	62	5.675	5.335	(1.000)	13492	0.74825	0.~~018706~~
53 4-Methyl-2-pentanone	43	7.457	7.386	(1.314)	5389	0.71469	0.~~017867~~
69 Bromoform (spcc)	173	10.128	9.782	(1.133)	1071	1.17584	~~0.029396~~

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 14-Apr-2006 16:49

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Lab Smp Id: H2HC01AA Client Smp ID: G-3101-R3-VOST TENA
Inj Date : 07-APR-2006 11:34
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC01AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	863482	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	179067	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	239706	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	142263	10.2820	0.25705
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	115565	9.65881	0.24147
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	741033	9.41844	0.23546
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	188736	7.80726	0.19518
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	84070	1.16339	0.029085
15 Bromomethane	94	1.422	1.418	(0.251)	1909	1.04151	0.026038
22 Acetone	43	2.122	2.123	(0.374)	2505	3.72895	0.093224 (M)
23 *Iodomethane	142	2.183	2.184	(0.385)	1458	0.58703	0.014676
39 *THF	42	4.555	4.532	(0.803)	824	0.40220	0.010055

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 14-Apr-2006 16:49

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 07-Apr-2006 11:52

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hc01aa.d
Lab Smp Id: H2HC01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: G-3101-R3-VOST TENA
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	863482	-9.35
2 Chlorobenzene-d5	164101	82050	328202	179067	9.12
3 1,4 Dichlorobenze	204390	102195	408780	239706	17.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.02
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 07-Apr-2006 11:52

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HC01AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: G-3101-R3-VOST TENA
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

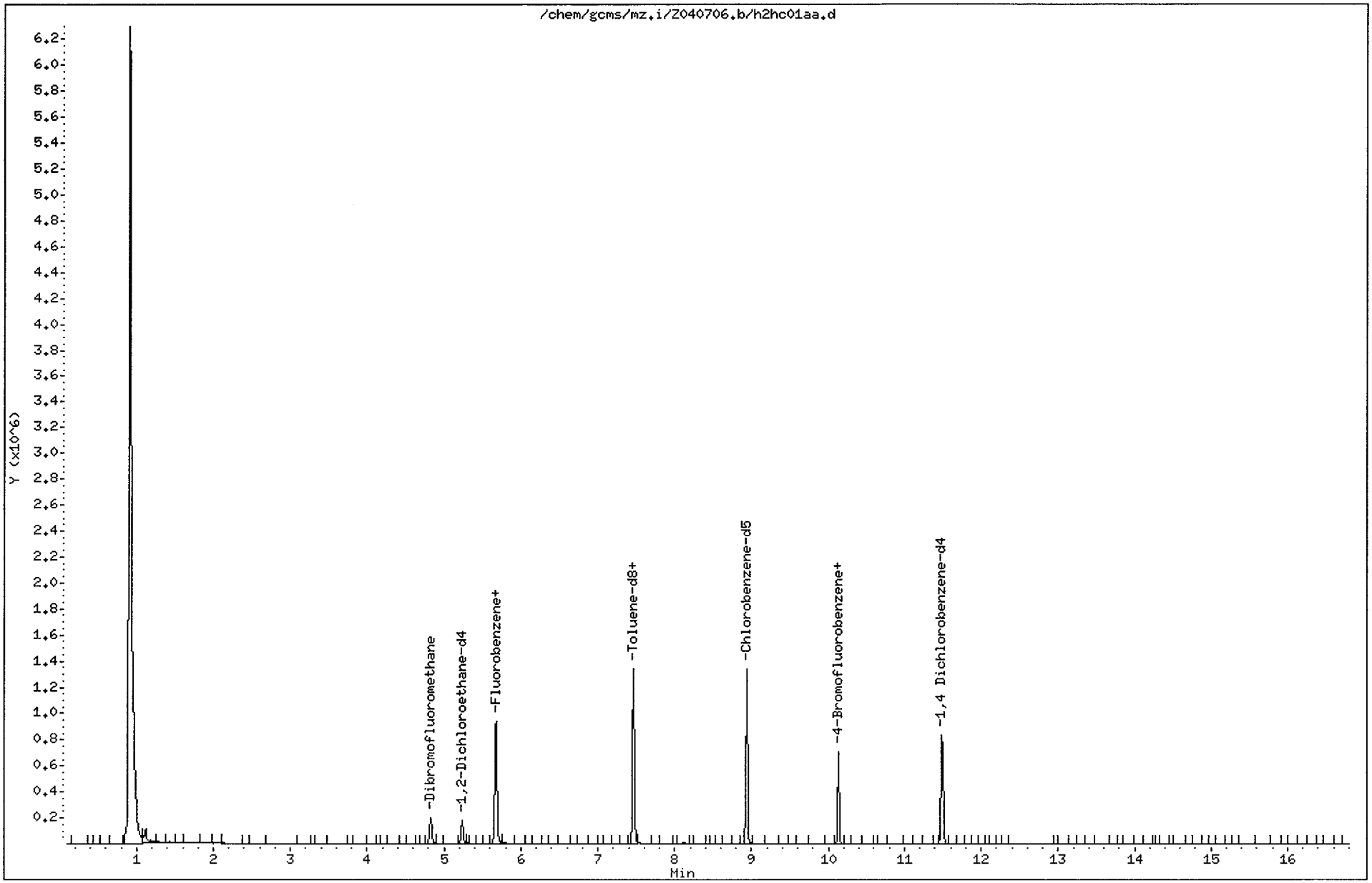
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25705	102.82	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24147	96.59	50-150
$ 6 Toluene-d8	0.25000	0.23546	94.18	50-150
$ 7 4-Bromofluorobenze	0.25000	0.19518	78.07	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Date : 07-APR-2006 11:34
Client ID: G-3101-R3-VOST TENA
Sample Info: H2HC01AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

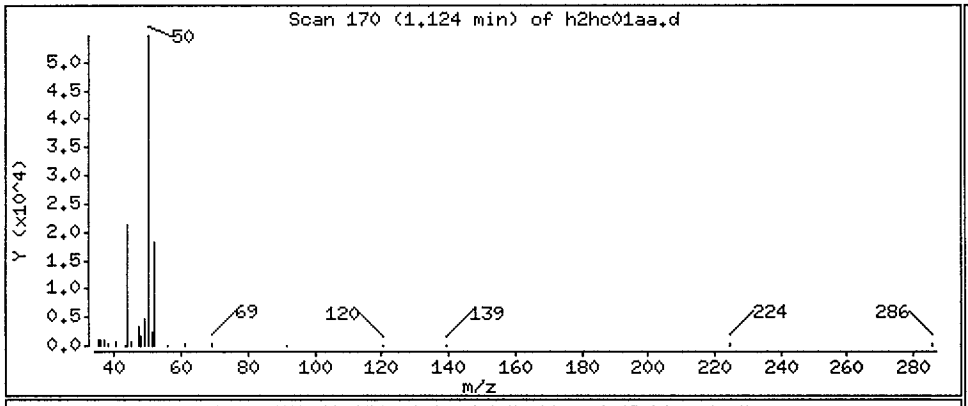
Operator: 22980

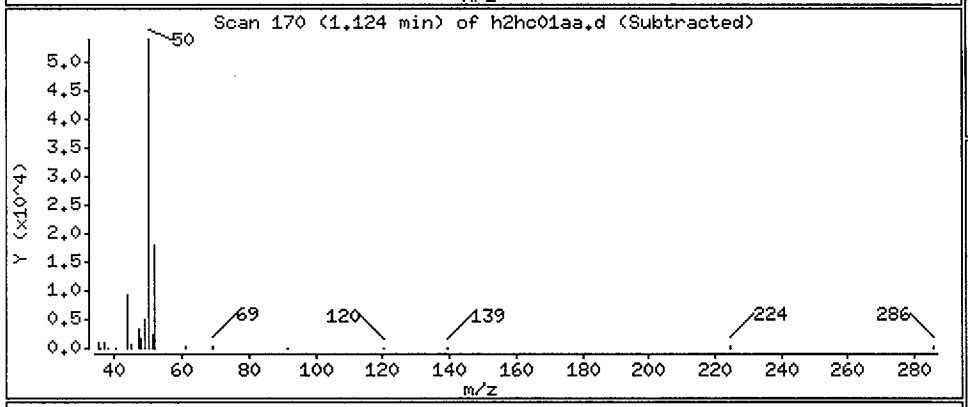
Column phase: J+W 624

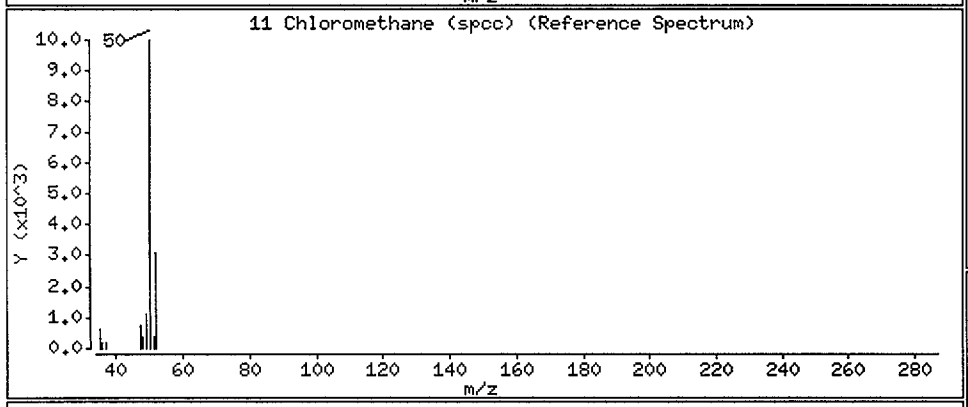
Column diameter: 0.18

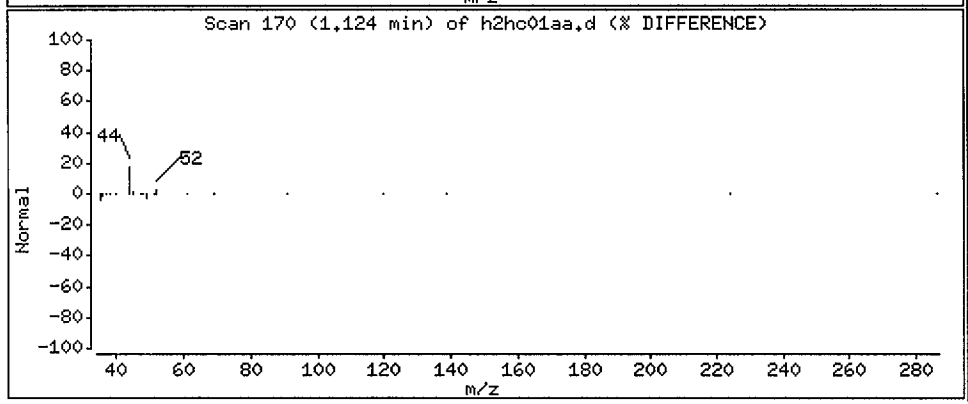
11 Chloromethane (spcc)

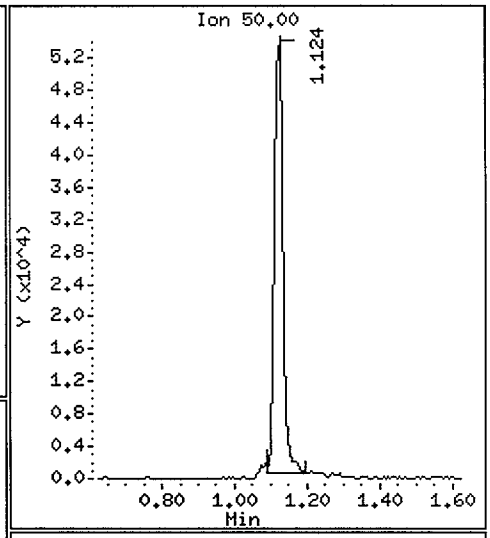
Concentration: 0.029085 ug

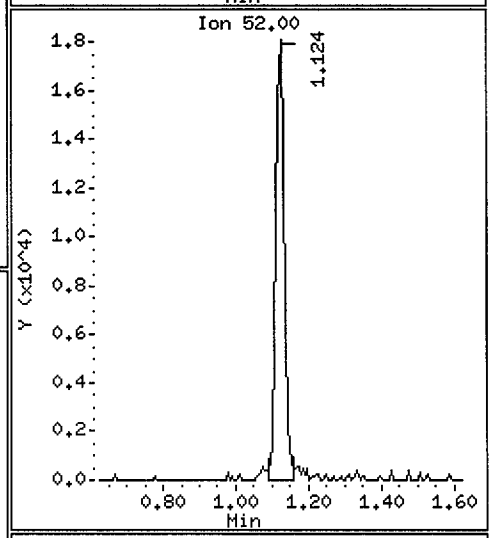


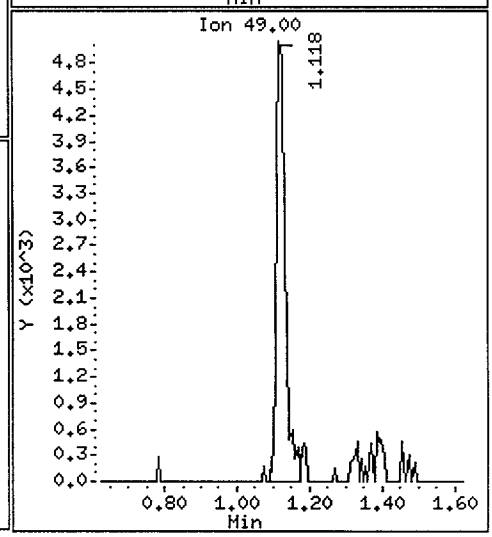












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

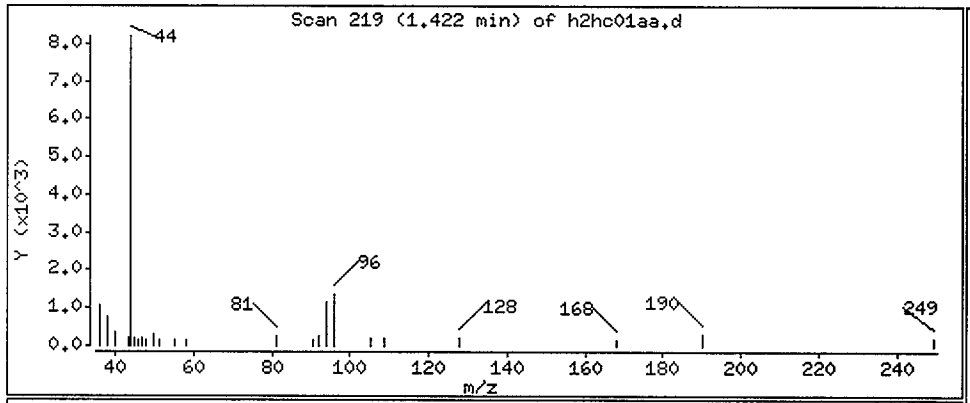
Operator: 22980

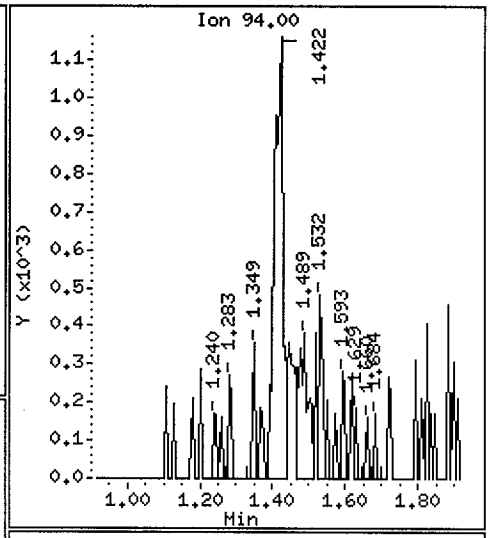
Column phase: J+W 624

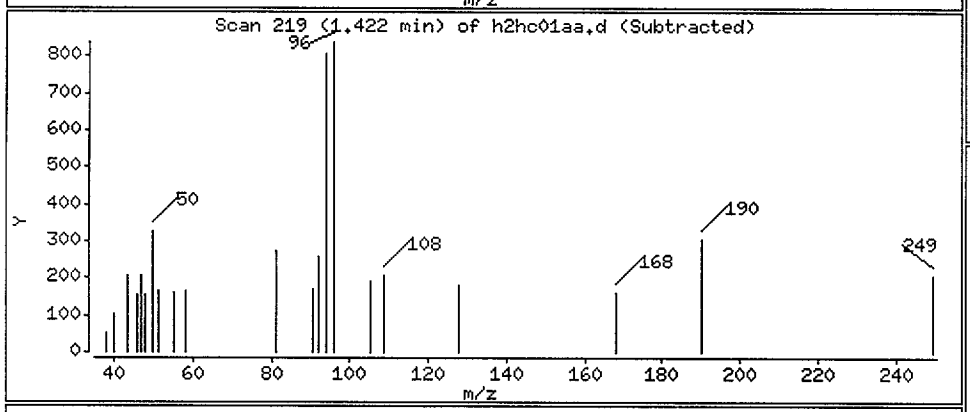
Column diameter: 0.18

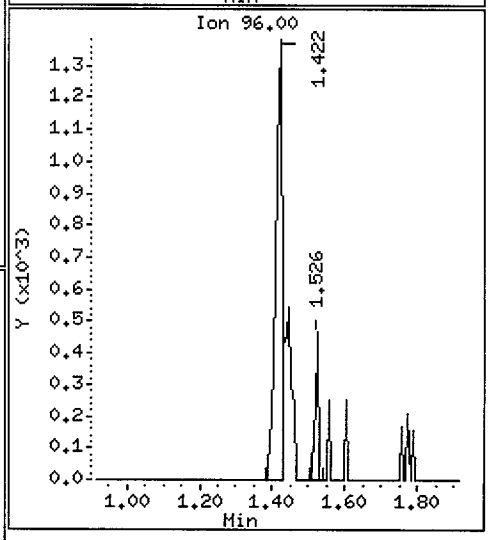
15 Bromomethane

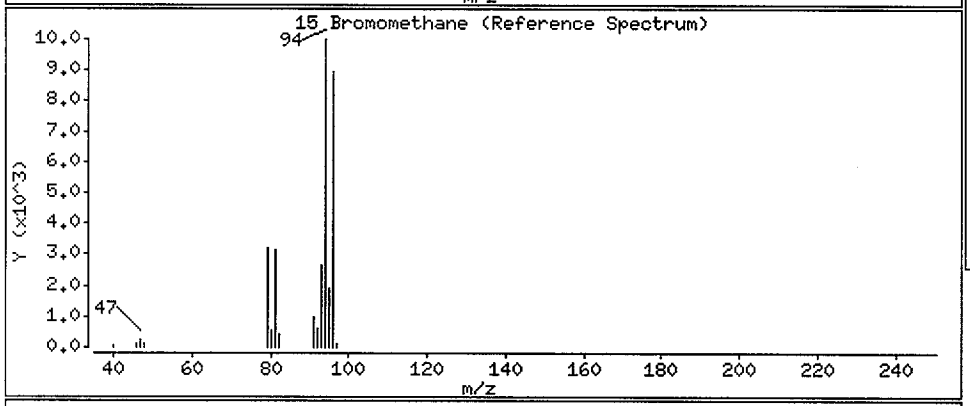
Concentration: 0.026039 ug

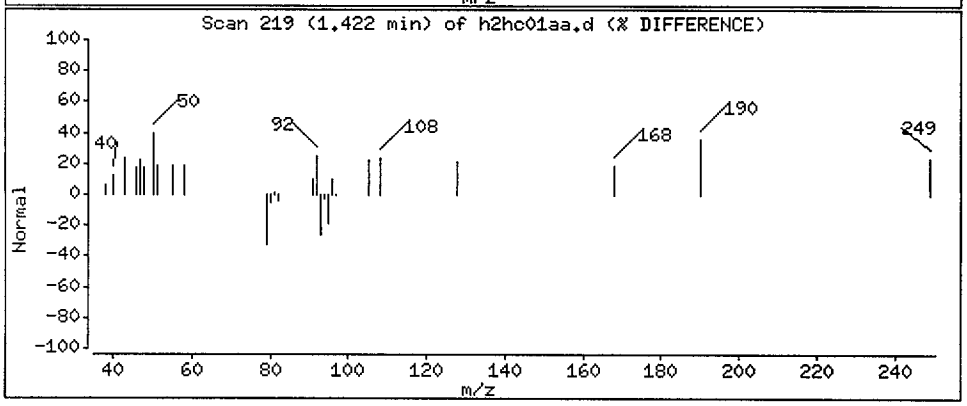












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

DLW 4-14-06

1

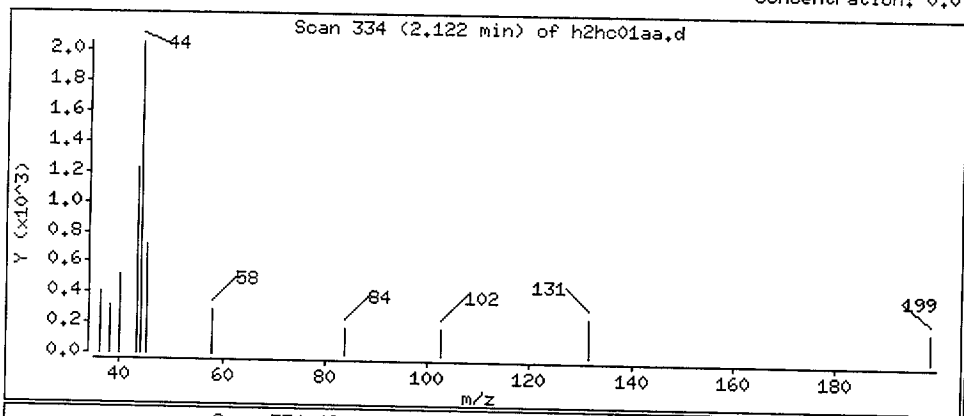
Operator: 22980

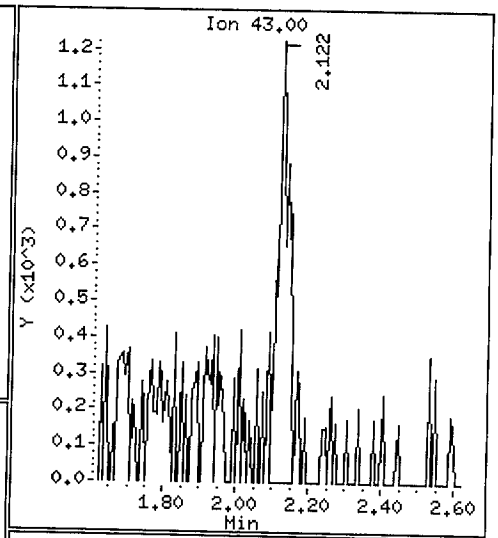
Column phase: J+W 624

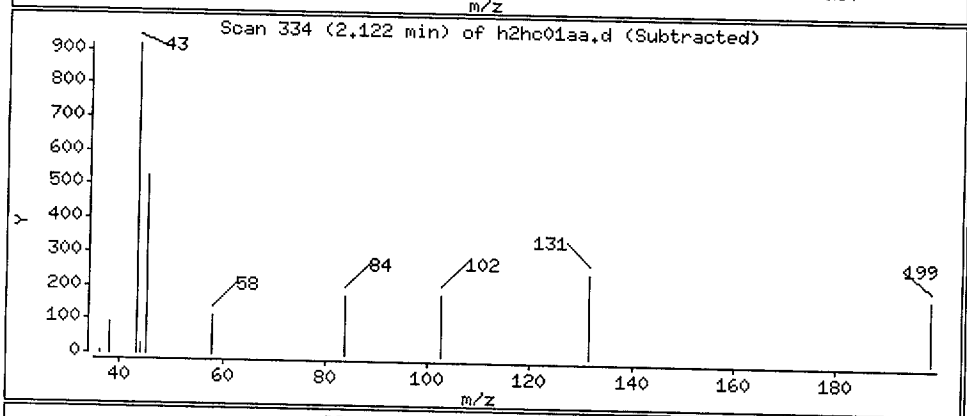
Column diameter: 0.18

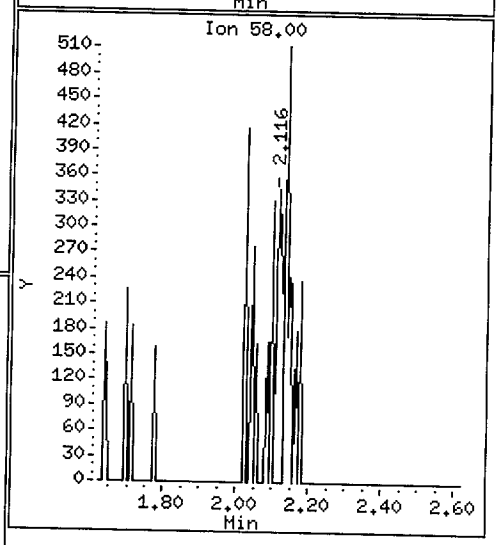
22 Acetone

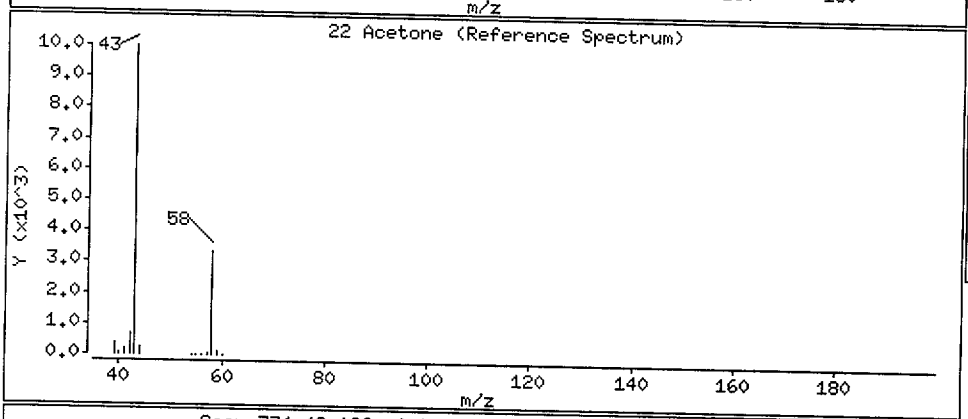
Concentration: 0.093224 ug

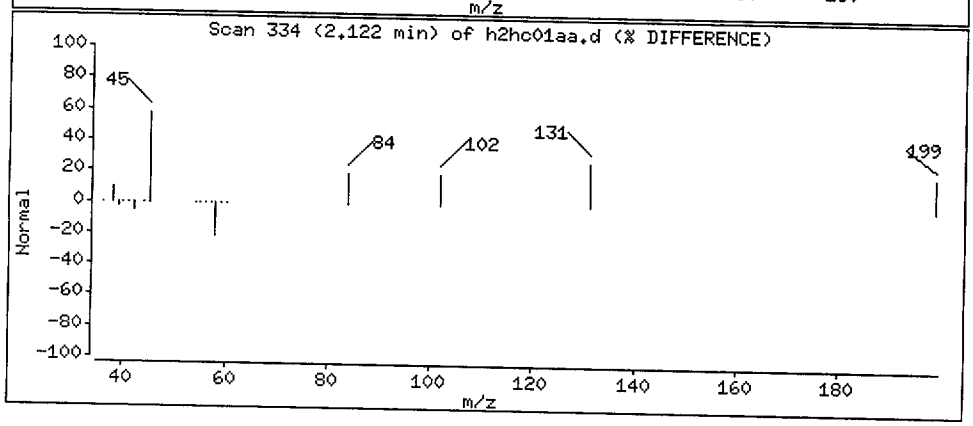












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

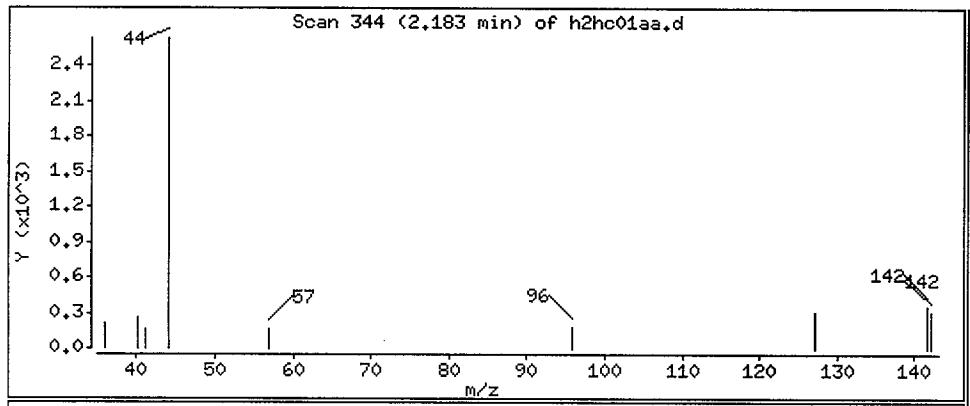
Operator: 22980

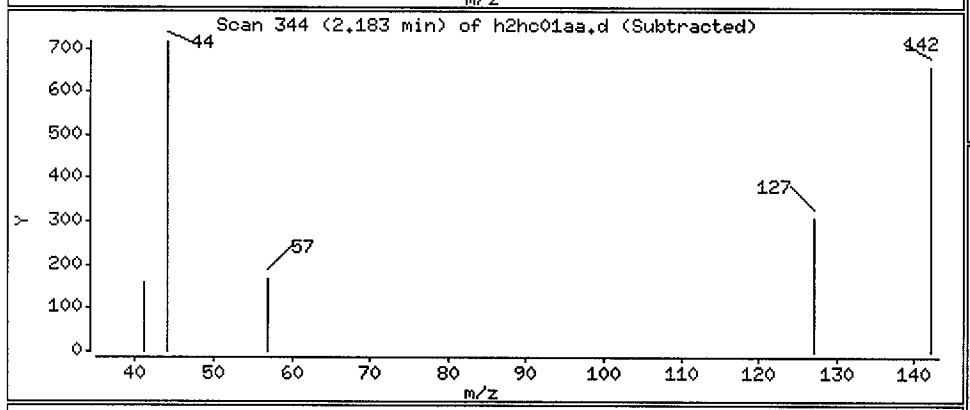
Column phase: J+W 624

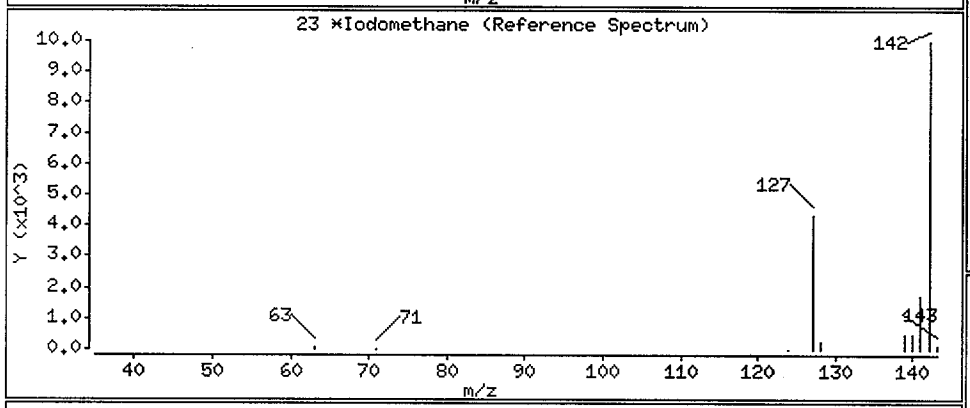
Column diameter: 0.18

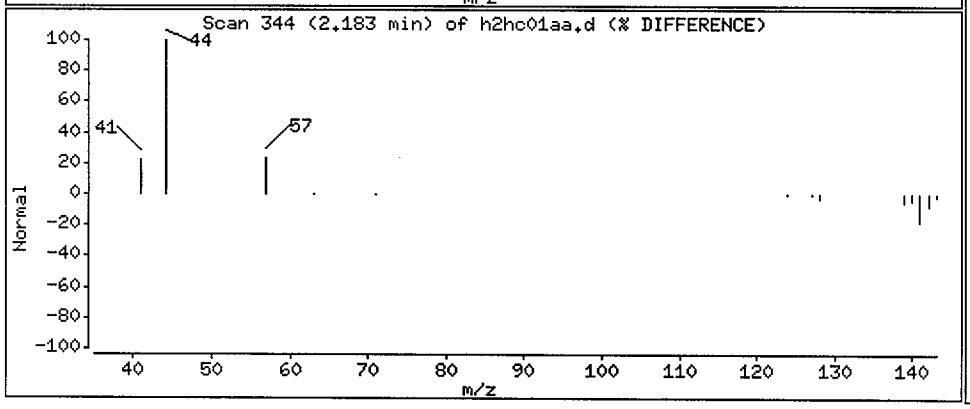
23 *Iodomethane

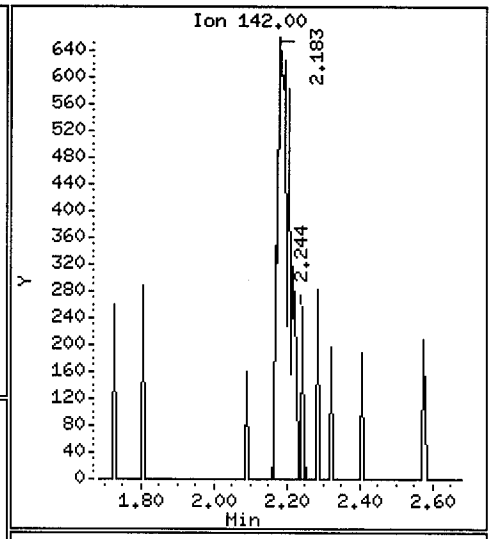
Concentration: 0.014676 ug

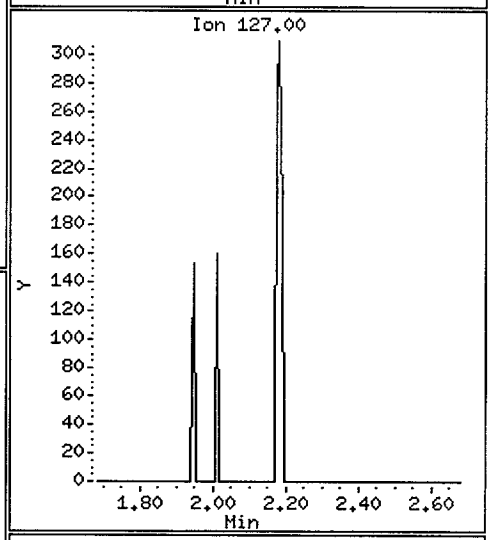


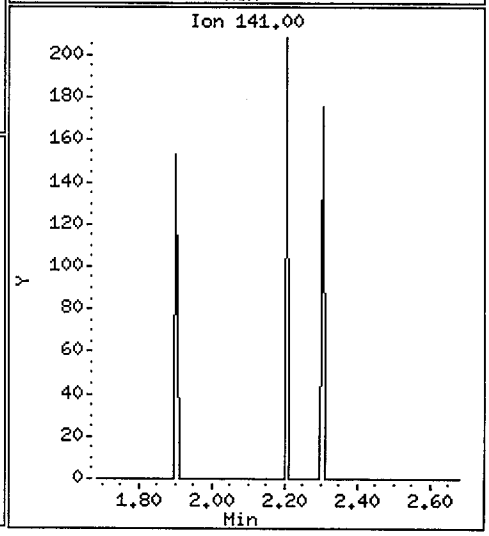












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

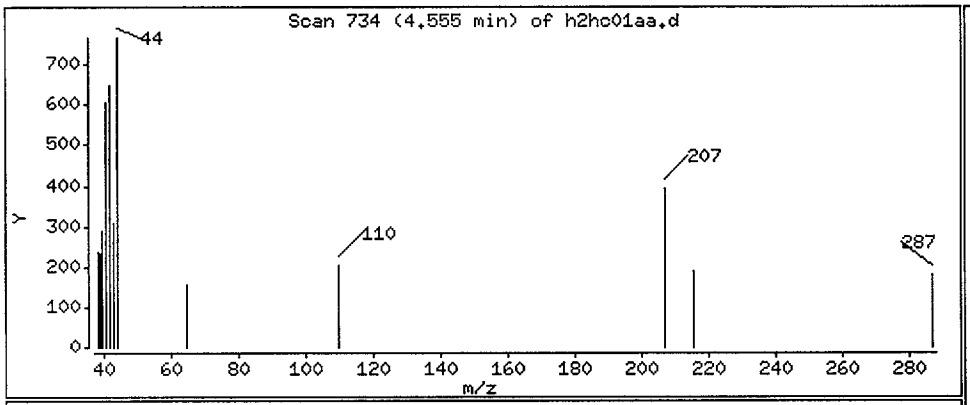
Operator: 22980

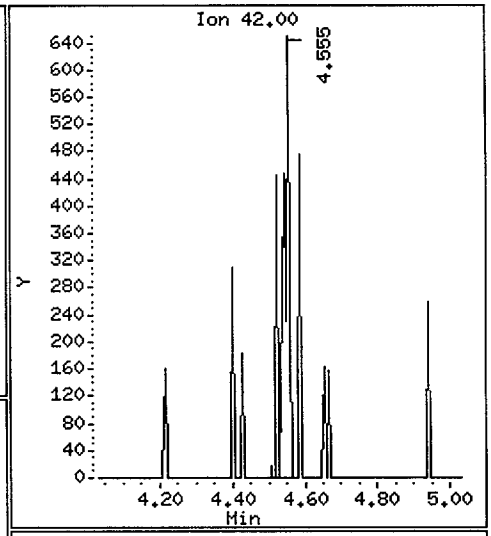
Column phase: J+W 624

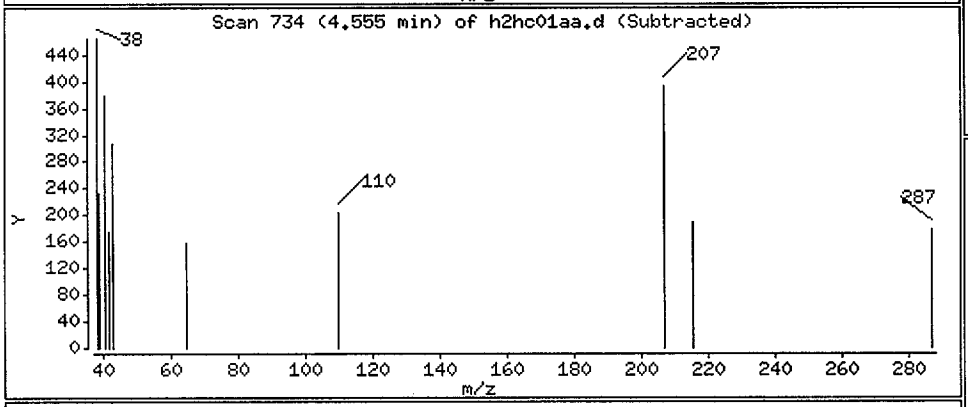
Column diameter: 0.18

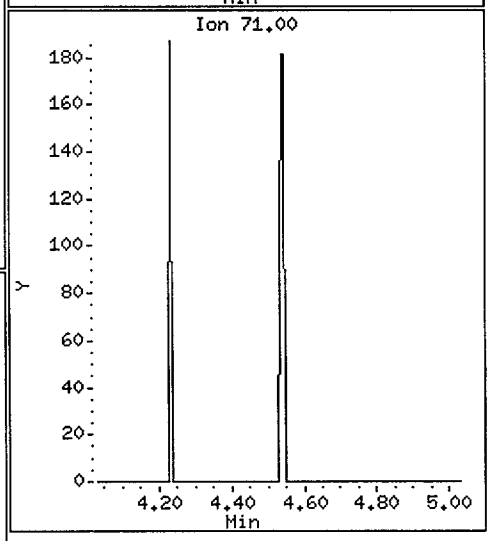
39 *THF

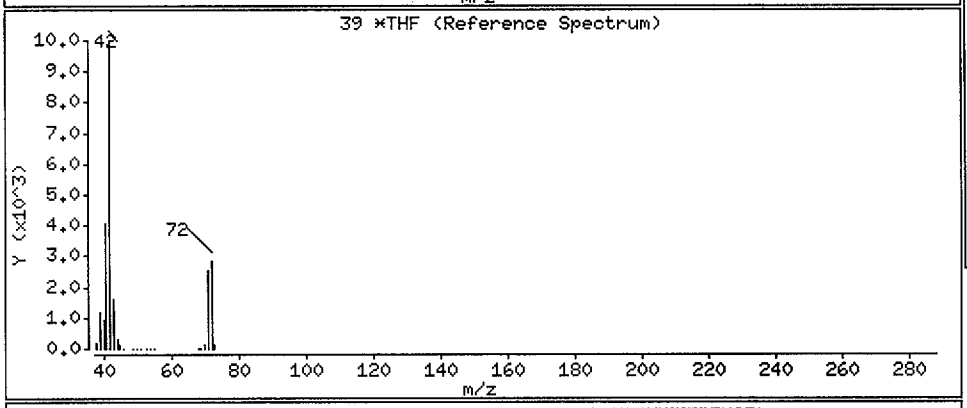
Concentration: 0.010061 ug

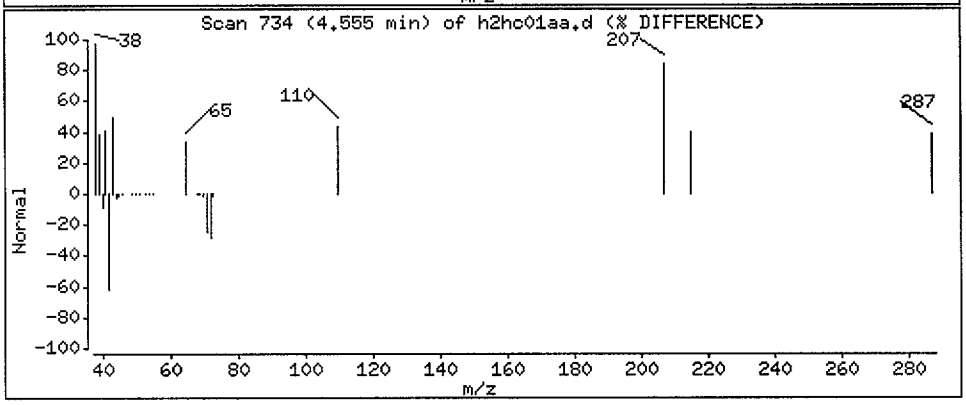












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

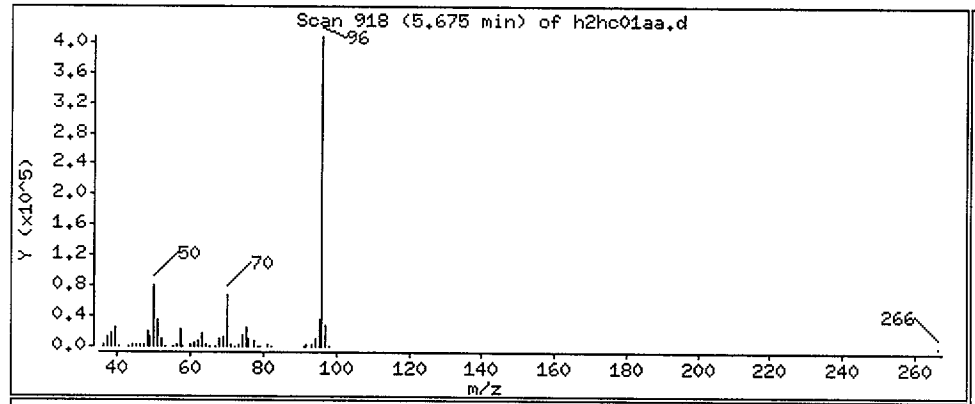
Operator: 22980

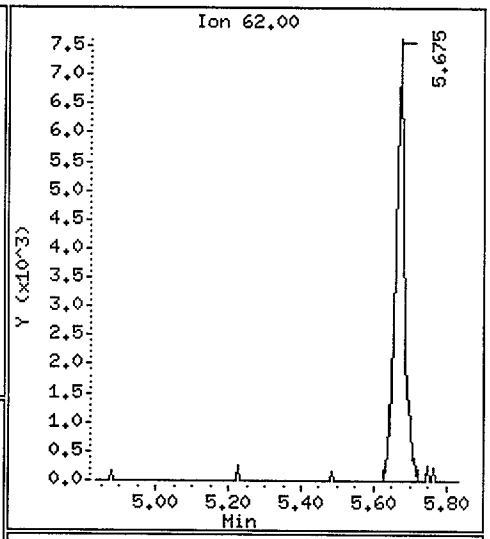
Column phase: J+W 624

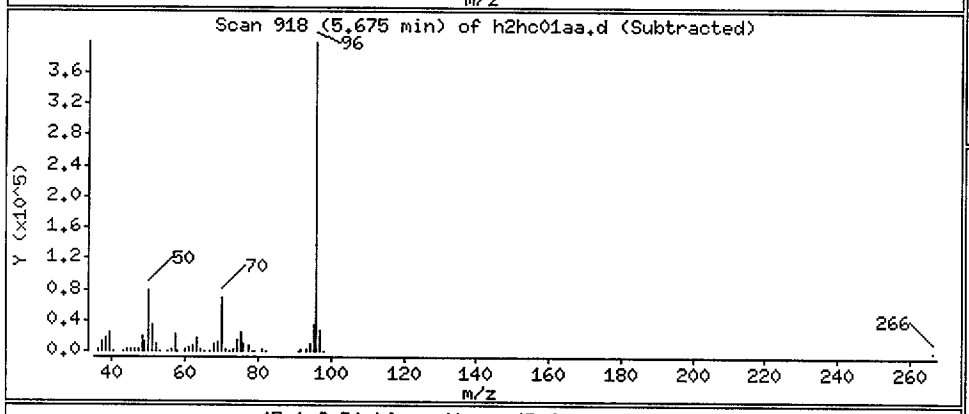
Column diameter: 0.18

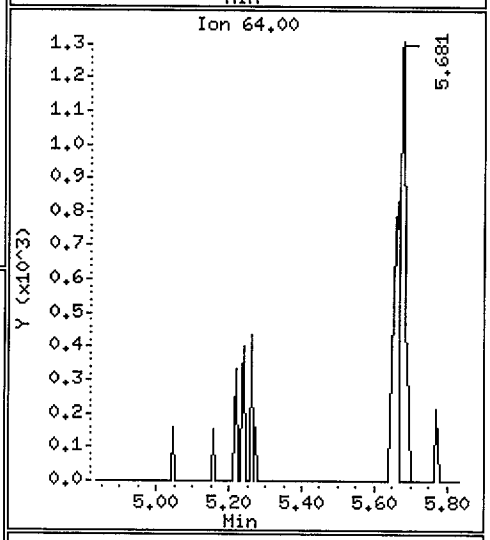
45 1,2-Dichloroethane

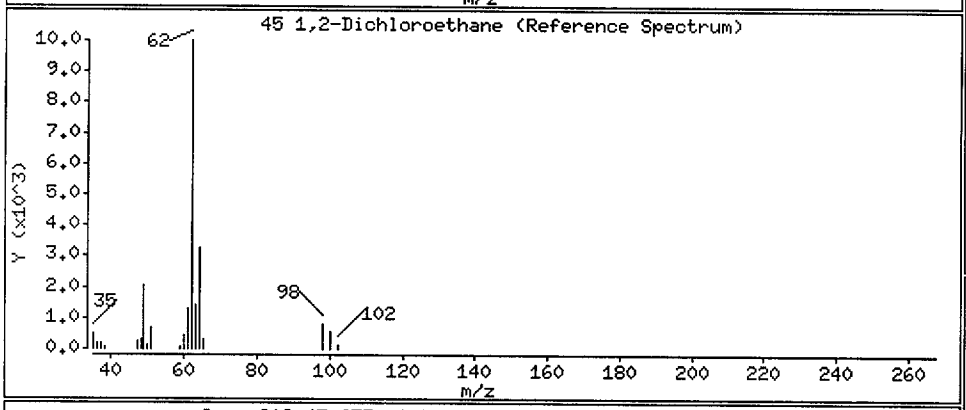
Concentration: 0.018706 ug

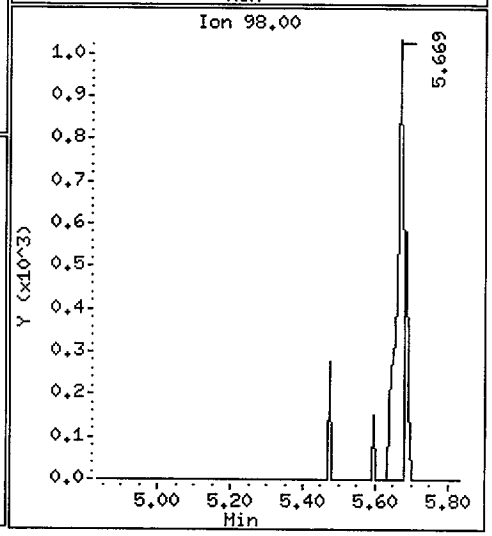


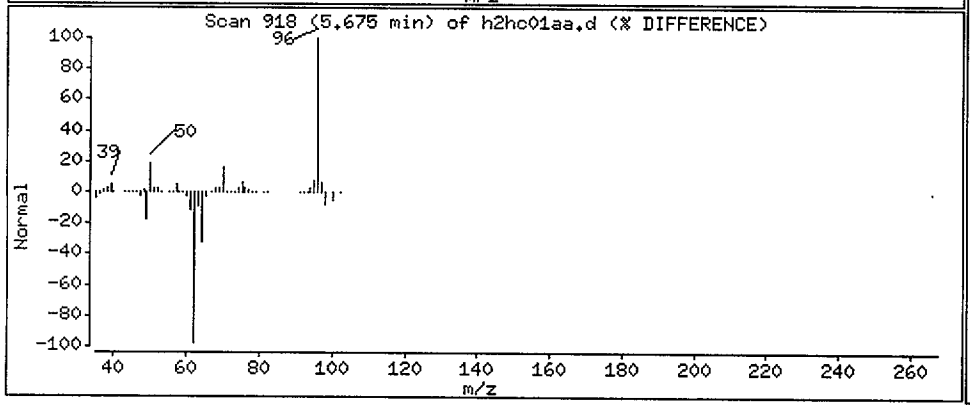












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

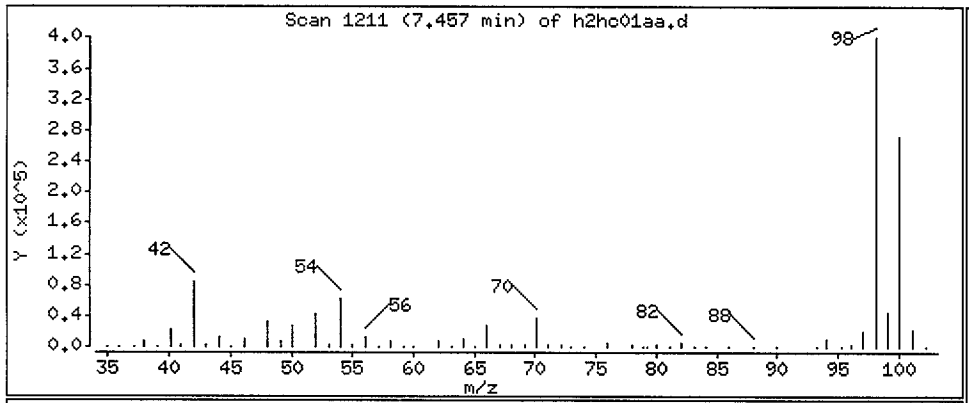
Operator: 22980

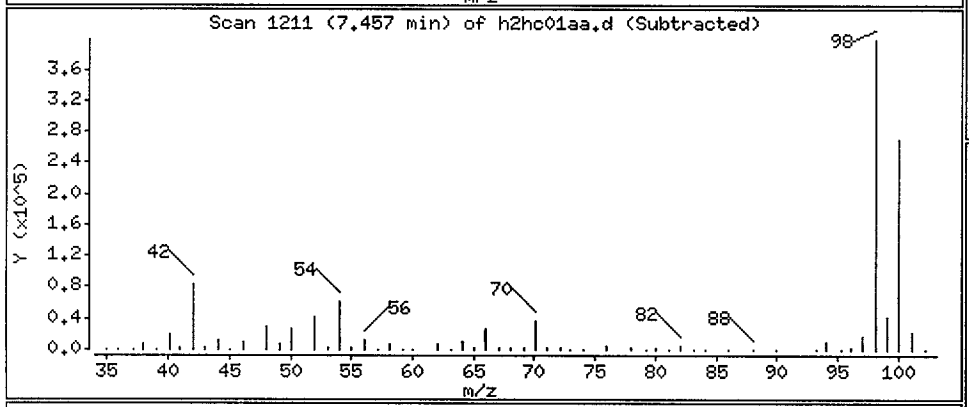
Column phase: J+W 624

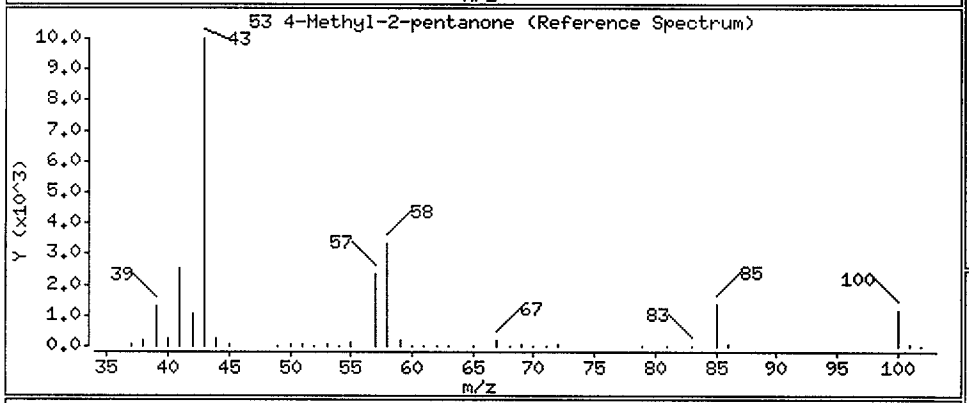
Column diameter: 0.18

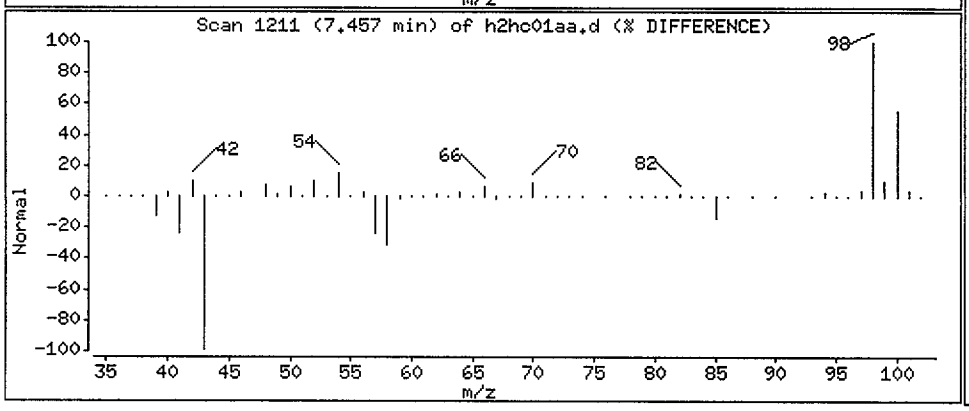
53 4-Methyl-2-pentanone

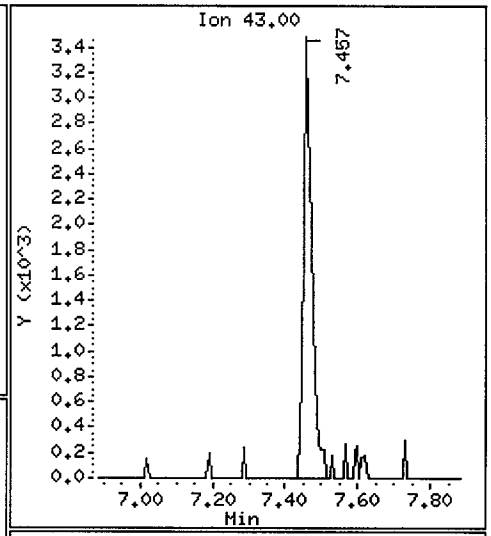
Concentration: 0.017867 ug

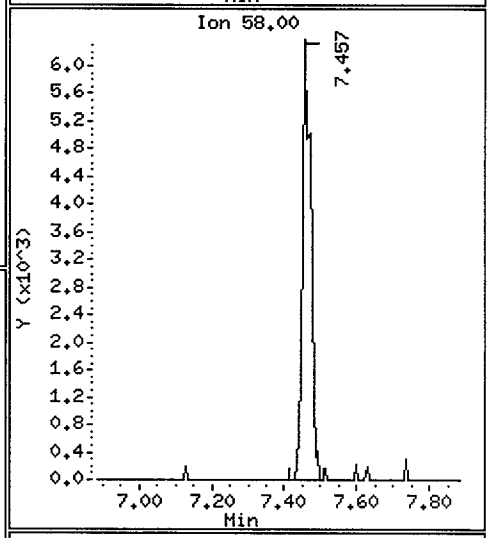


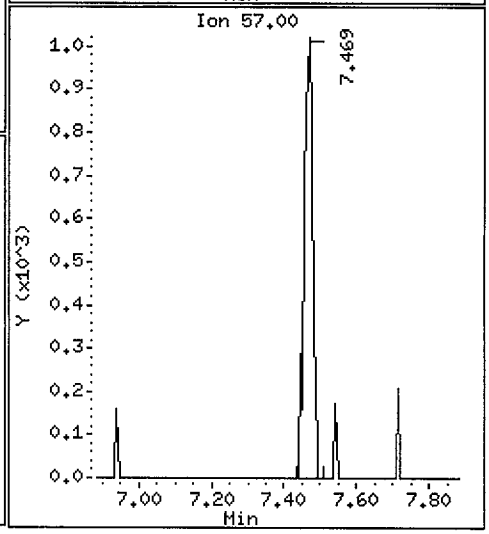












Data File: /chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

Sample Info: H2HC01AA,1,0,,

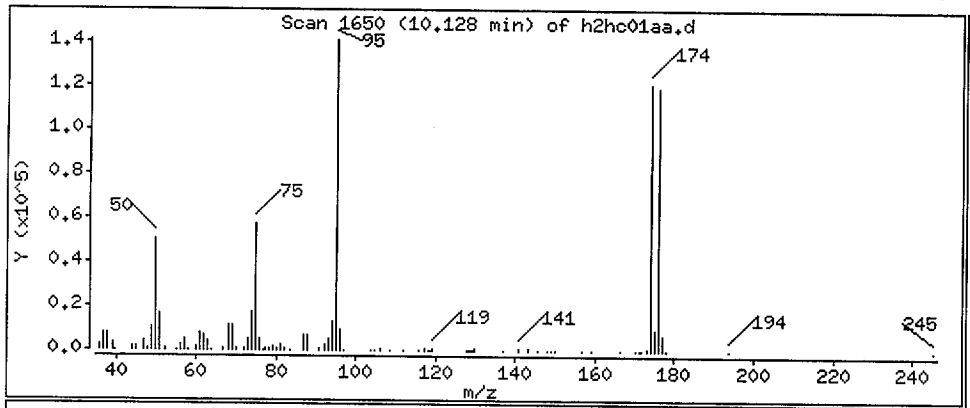
Operator: 22980

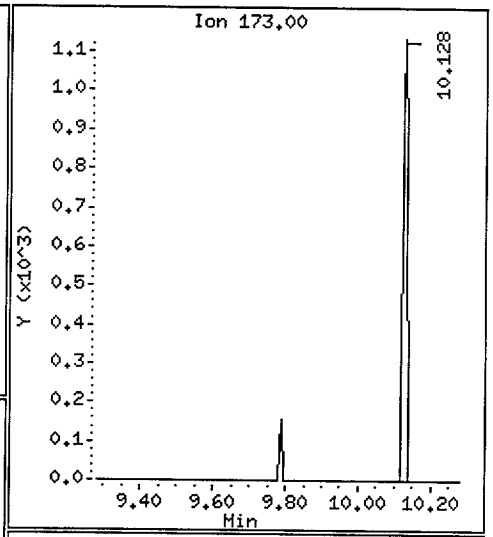
Column phase: J+W 624

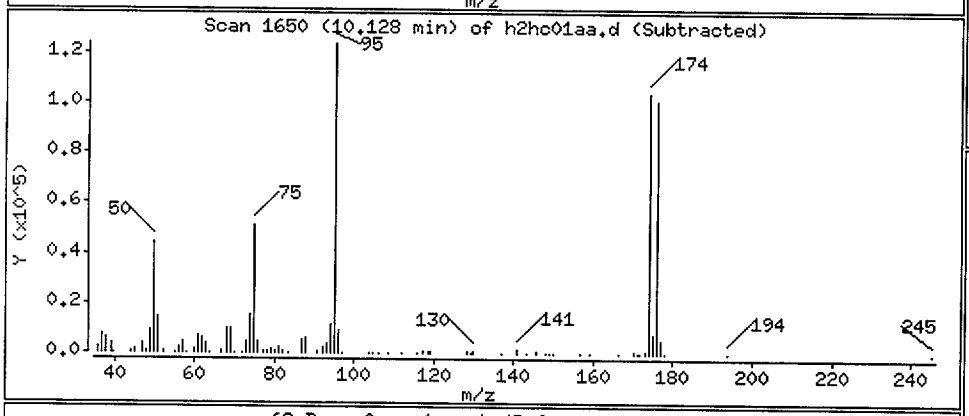
Column diameter: 0.18

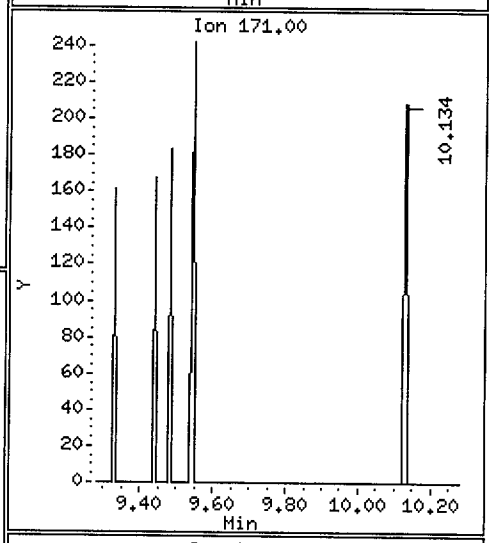
69 Bromoform (spcc)

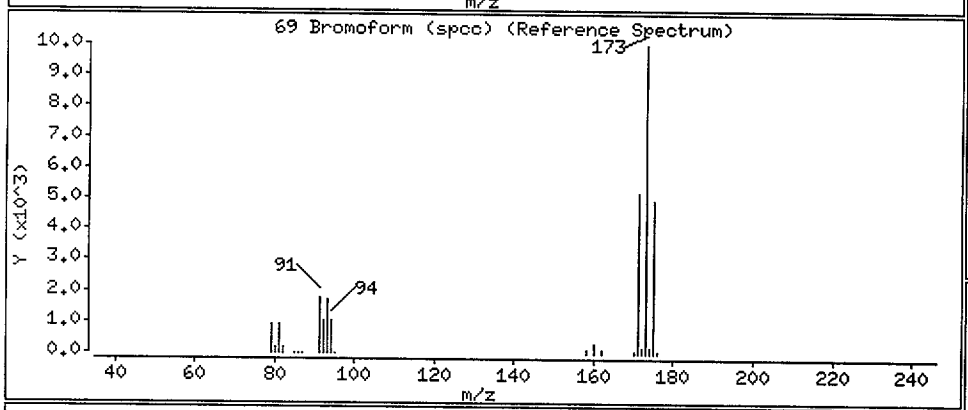
Concentration: 0.029396 ug

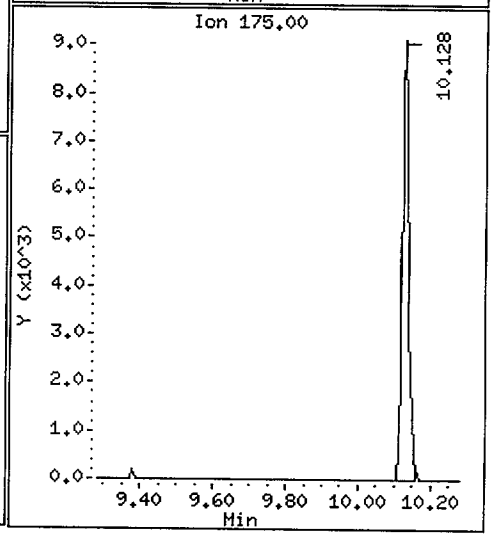


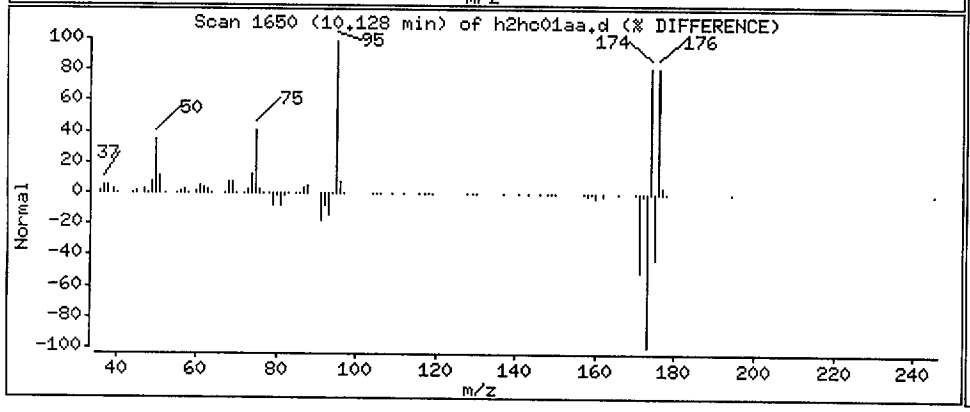












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Report Date: 14-Apr-2006 17:01

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d
Lab Smp Id: H2HC01AA Client Smp ID: G-3101-R3-VOST TENA
Inj Date : 07-APR-2006 11:34
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC01AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	936010	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide CO2				CAS #: 124-38-9			
0.905	6298158	67.2872939	1.6822	5	NIST05.1	80	1

7004-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc01aa.d

Date : 07-APR-2006 11:34

Client ID: G-3101-R3-VOST TENA

Instrument: mz.i

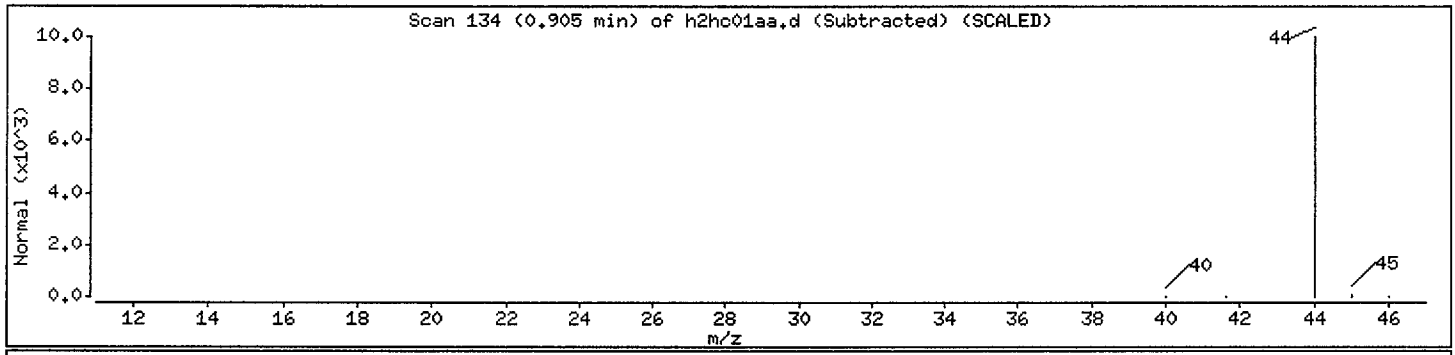
Sample Info: H2HC01AA,1,0,,

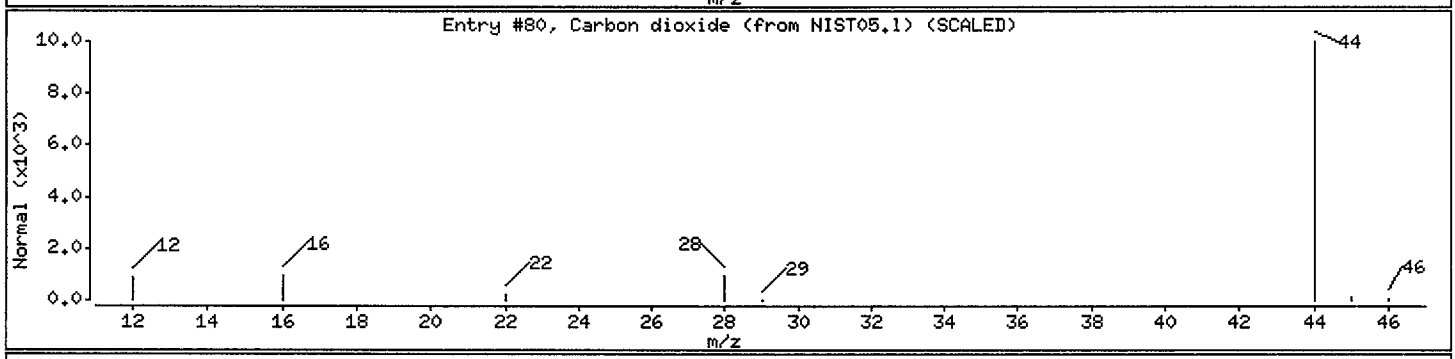
Operator: 22980

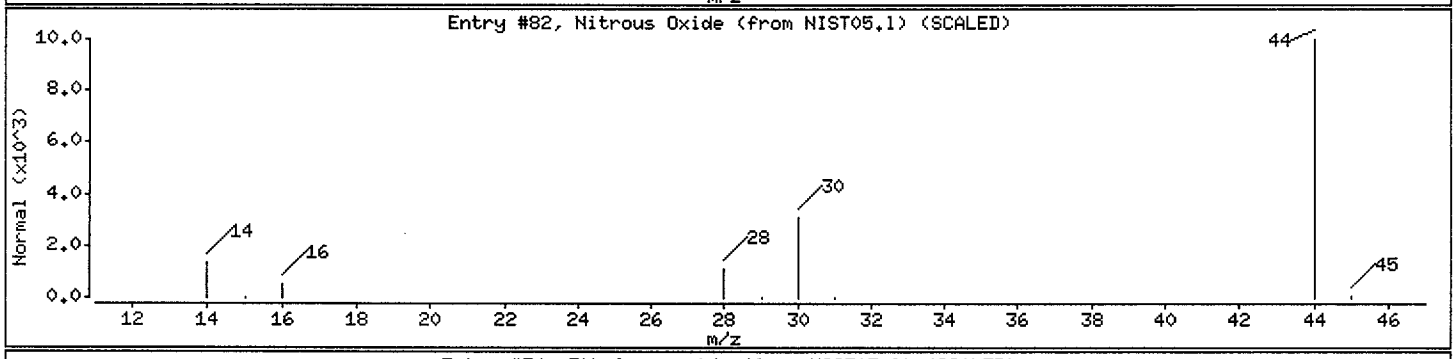
Column phase: J+W 624

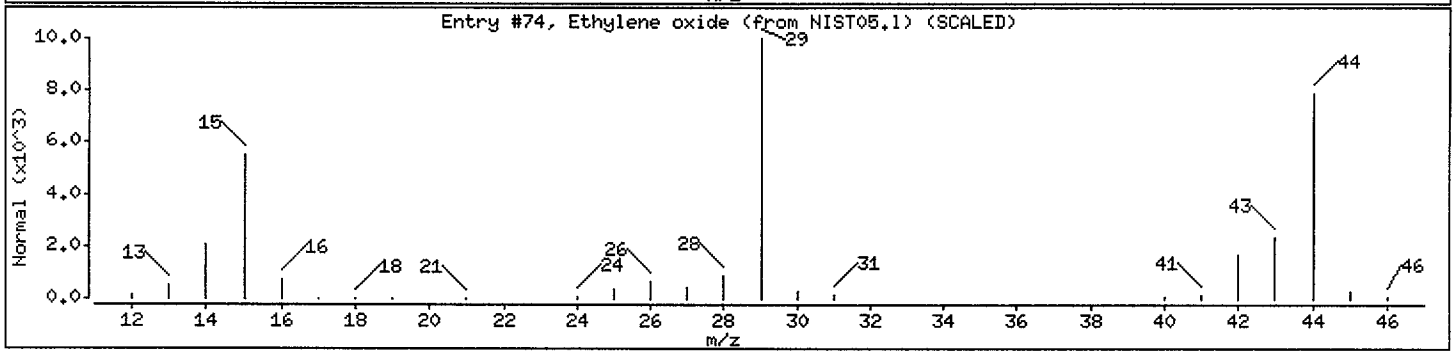
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-036 **Work Order #...:** H2HC11AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.1 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.7**	**1.0**	**ug/L**	**0.10**
Bromoform	**0.86 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.1**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**8.0**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-036 **Work Order #...:** H2HC11AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.2 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.91 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #: H6D030169-036 **Work Order #:** H2HC11AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Report Date: 07-Apr-2006 14:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Lab Smp Id: H2HC11AA Client Smp ID: G-3102-R3-VOST DI W
Inj Date : 05-APR-2006 17:49
Operator : 063605 Inst ID: mz.i
Smp Info : H2HC11AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.669	5.667	(1.000)	959281	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	180093	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	218576	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.231	5.229	(0.923)	150460	11.3195	11.319
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	170820	11.1130	11.113
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	791989	10.0087	10.009
$ 7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	208680	9.46675	9.4668
22 Acetone	43	2.152	2.126	(0.380)	4711	4.07690	4.0769(M)
27 Methylene Chloride	84	2.511	2.503	(0.443)	19991	1.24605	1.2460
40 Chloroform (ccc)	83	4.610	4.608	(0.813)	277177	7.99694	7.9969
46 Trichloroethene	130	6.113	6.105	(1.078)	24234	0.91068	0.91068
50 Bromodichloromethane	83	6.685	6.683	(1.179)	34462	2.65428	2.6543
61 Chlorodibromomethane	129	8.345	8.349	(0.935)	3199	1.10842	1.1084
69 Bromoform (spcc)	173	9.781	9.779	(1.095)	178	0.86320	0.86320

Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Report Date: 05-Apr-2006 18:06

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Lab Smp Id: H2HC11AA Client Smp ID: G-3102-R3-VOST DI W
Inj Date : 05-APR-2006 17:49
Operator : 063605 Inst ID: mz.i
Smp Info : H2HC11AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.669	5.667	(1.000)	959281	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	180093	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	218576	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.231	5.229	(0.923)	150460	11.3195	11.320
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	170820	11.1130	11.113
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	791989	10.0087	10.009
$ 7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	208680	9.46677	9.4668
22 Acetone	43	2.134	2.126	(0.376)	1817	3.56196	3.5620
23 *Iodomethane	142	2.195	2.181	(0.387)	1236	~~0.57168~~	~~0.57168~~
27 Methylene Chloride	84	2.511	2.503	(0.443)	19991	1.24608	1.2461
39 *THF	42	4.561	4.529	(0.805)	1027	~~0.45143~~	~~0.45143~~
40 Chloroform (ccc)	83	4.610	4.608	(0.813)	277177	7.99695	7.9970
42 Carbon Tetrachloride	117	4.610	5.028	(0.813)	3442	~~0.47388~~	~~0.47388~~
45 1,2-Dichloroethane	62	5.662	5.326	(0.999)	14019	~~0.69984~~	~~0.69984~~

MT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Report Date: 05-Apr-2006 18:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
46 Trichloroethene	130	6.113	6.105	(1.078)	24234	0.91070	0.91070
50 Bromodichloromethane	83	6.685	6.683	(1.179)	34462	2.65432	2.6543
53 4-Methyl-2-pentanone	43	7.457	7.376	(1.316)	6180	~~0.73783~~	~~0.73783~~
55 trans-1,3-Dichloropropene	75	7.469	7.784	(0.836)	209	~~0.63807~~	~~0.63907~~
61 Chlorodibromomethane	129	8.345	8.349	(0.935)	3199	1.10844	1.1084
69 Bromoform (spcc)	173	9.781	9.779	(1.095)	178	0.86336	0.86336

MK
4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Report Date: 05-Apr-2006 18:06

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hc11aa.d
Lab Smp Id: H2HC11AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3102-R3-VOST DI W
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	959281	-11.07
2 Chlorobenzene-d5	188899	94450	377798	180093	-4.66
3 1,4 Dichlorobenze	220143	110072	440286	218576	-0.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.04
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.04

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Report Date: 05-Apr-2006 18:06

STL Knoxville

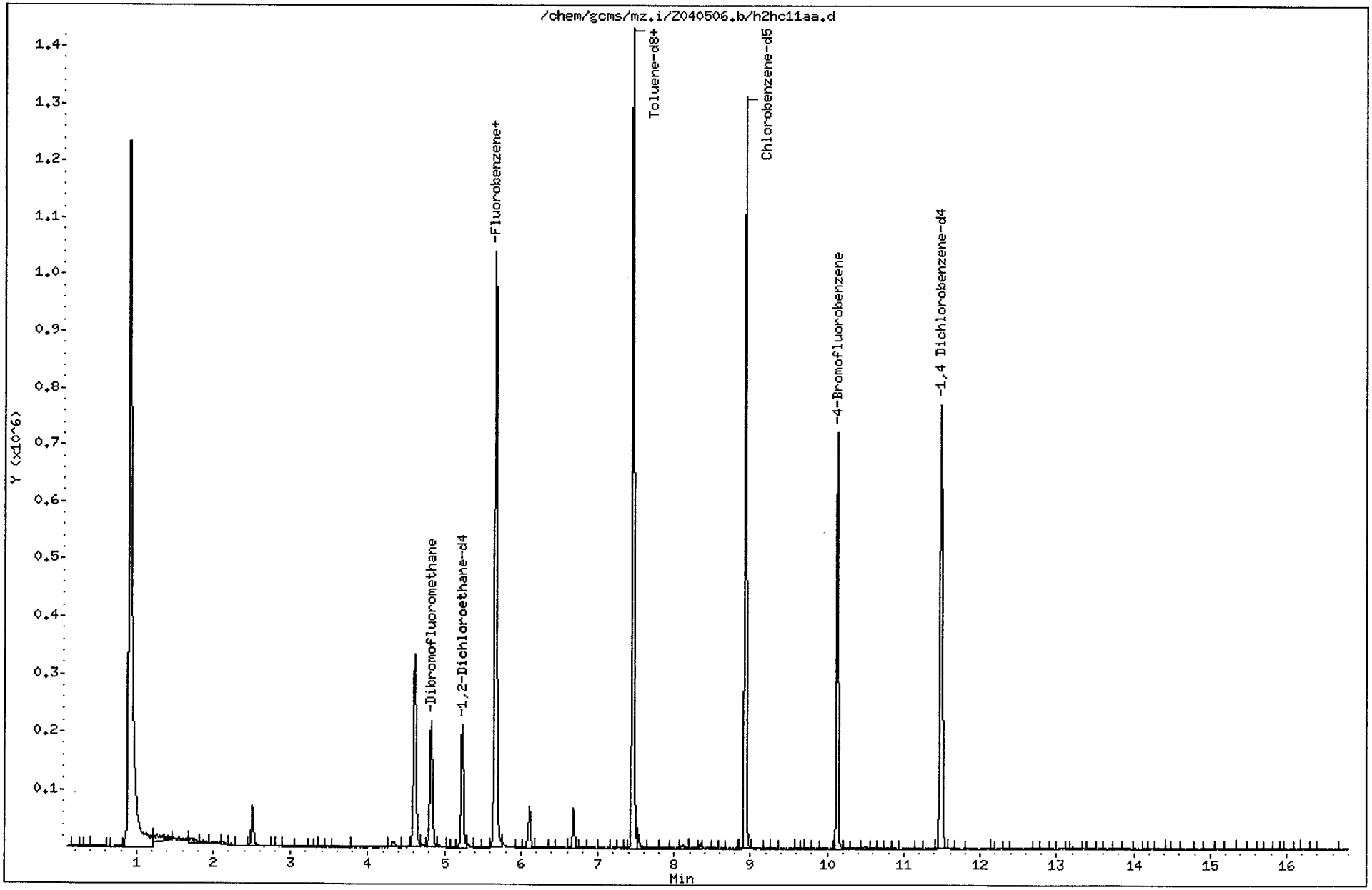
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HC11AA
Client Smp ID: G-3102-R3-VOST DI W
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.320	113.20	71-127
$ 4 Dibromofluorometha	10.000	11.113	111.13	79-120
$ 6 Toluene-d8	10.000	10.009	100.09	80-120
$ 7 4-Bromofluorobenze	10.000	9.4668	94.67	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Date : 05-APR-2006 17:49
Client ID: G-3102-R3-VOST DI W
Sample Info: H2HC11AA,1,0,,
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

Operator: 063605

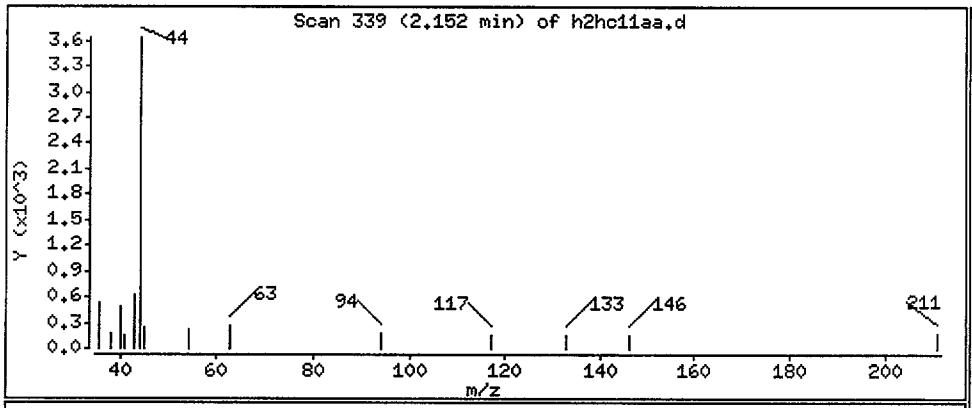
Column phase: J+W 624

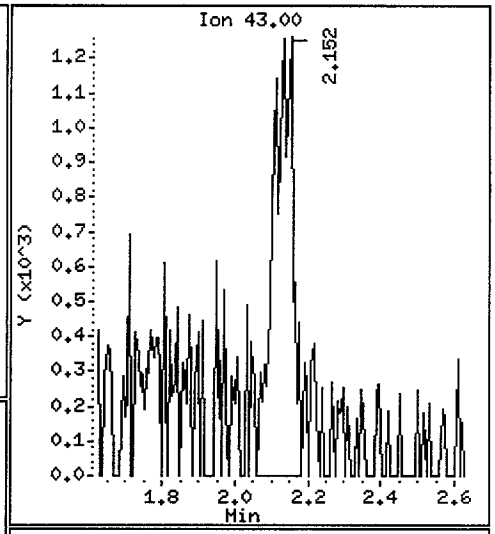
Column diameter: 0.18

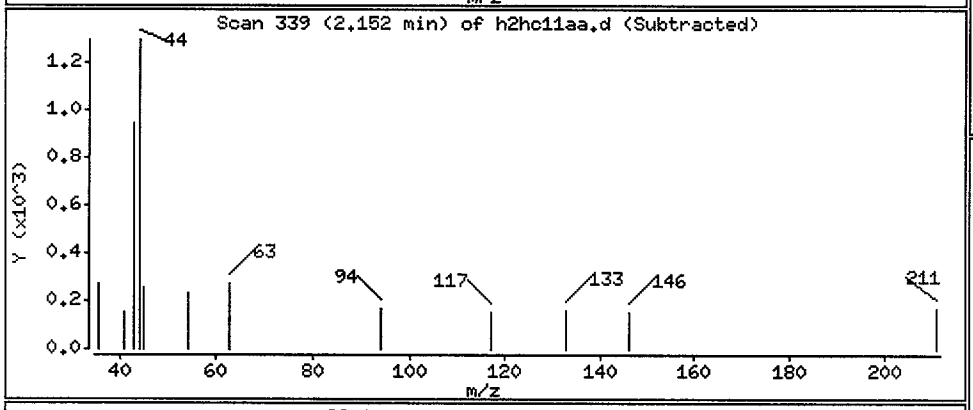
22 Acetone

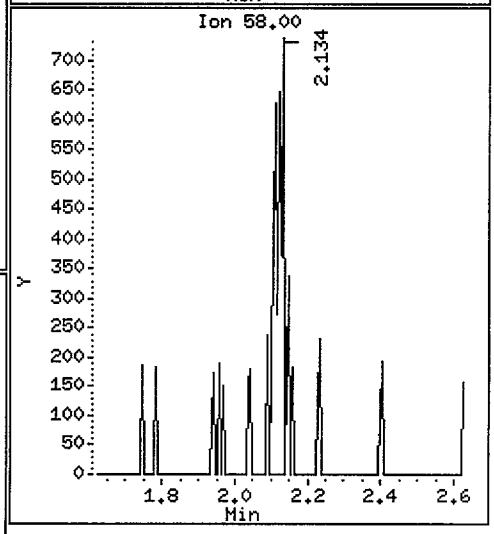
Concentration: 4.0769 ug/L

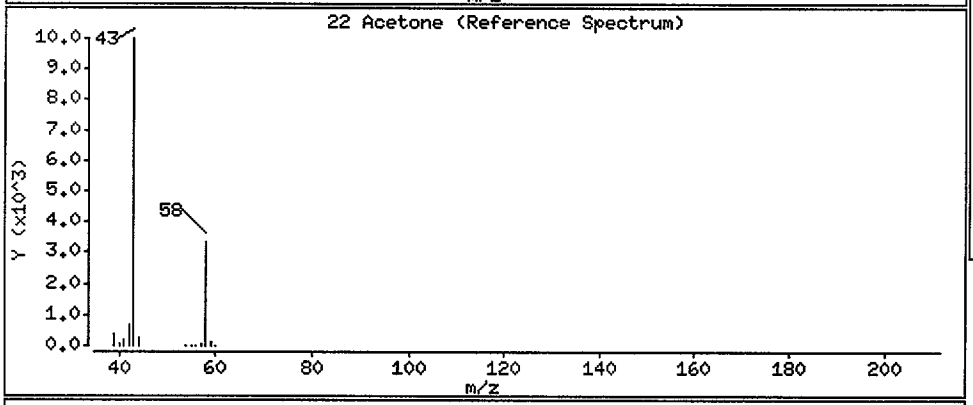
not 4/7/06 split peak

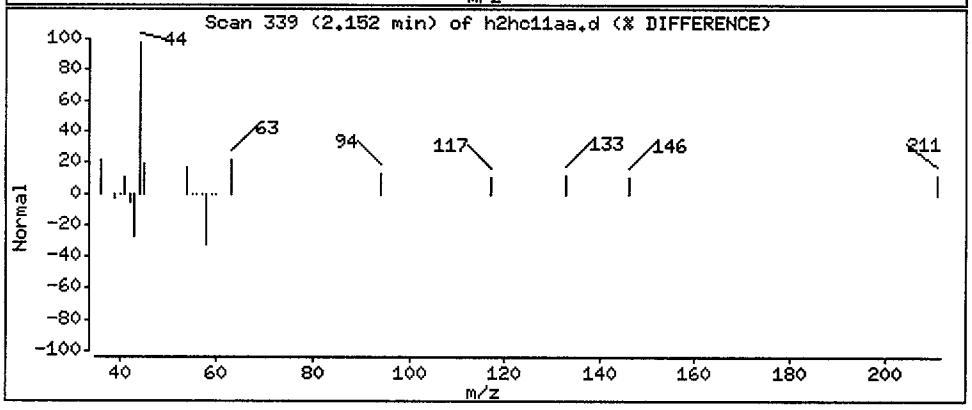












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

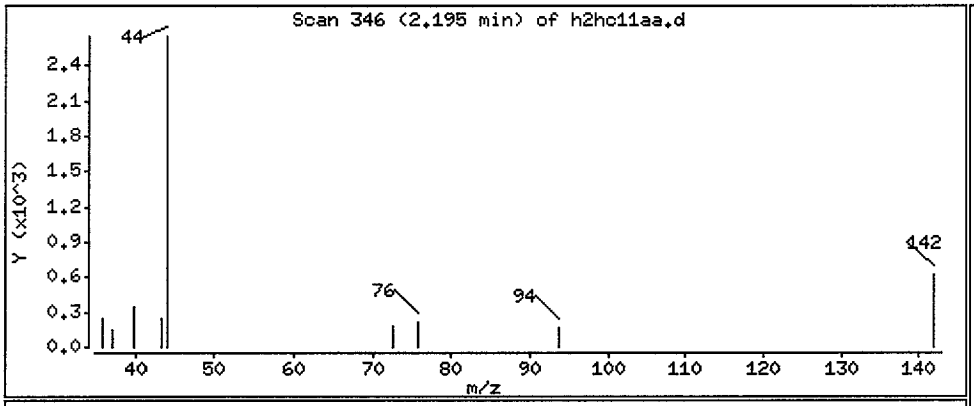
Operator: 063605

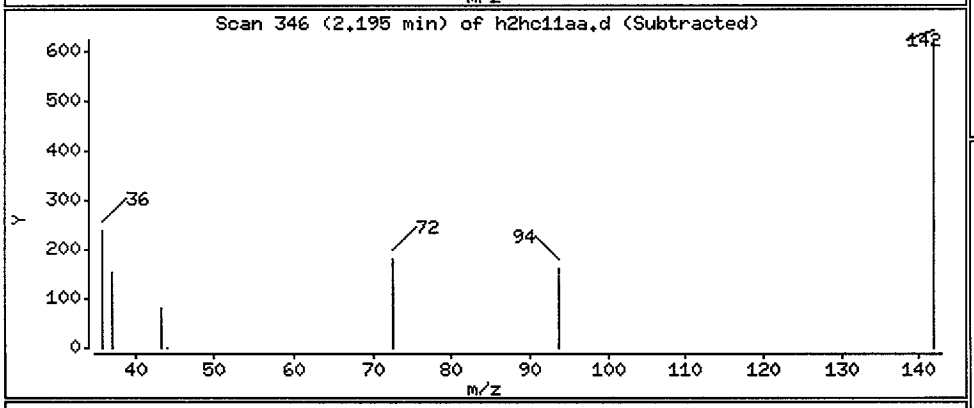
Column phase: J+W 624

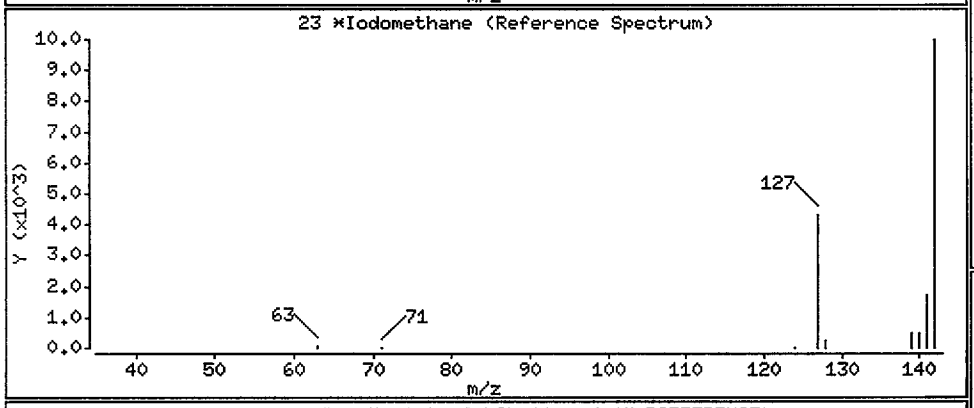
Column diameter: 0.18

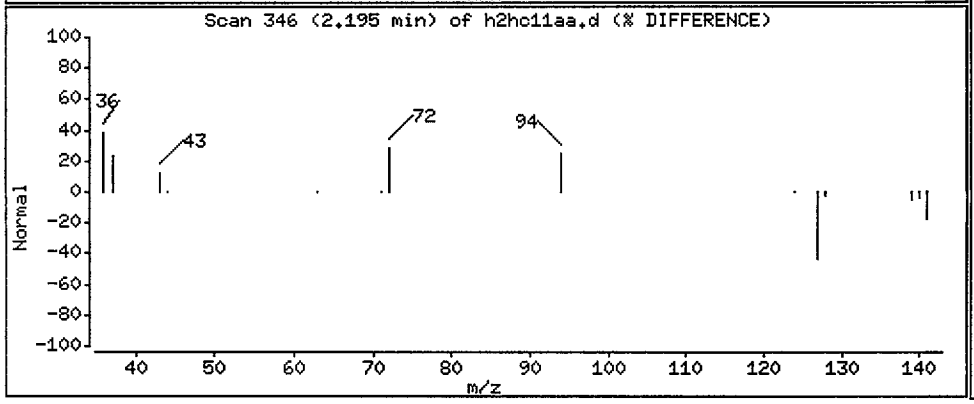
23 *Iodomethane

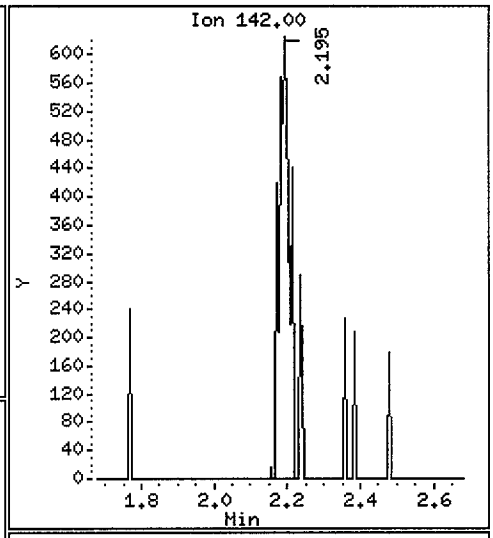
Concentration: 0.57168 ug/L

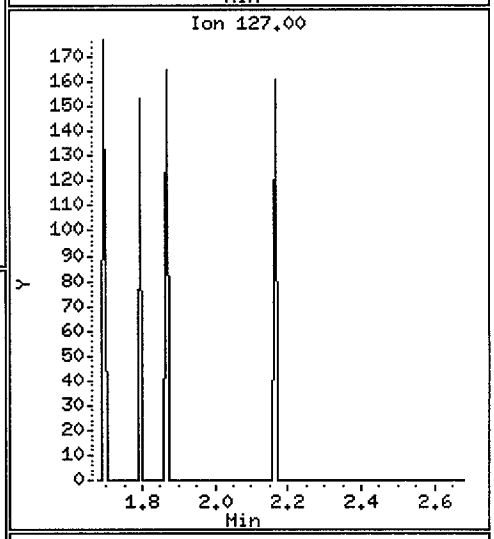


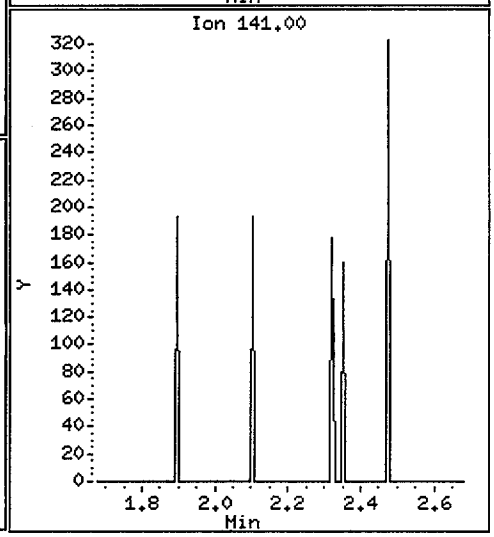












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

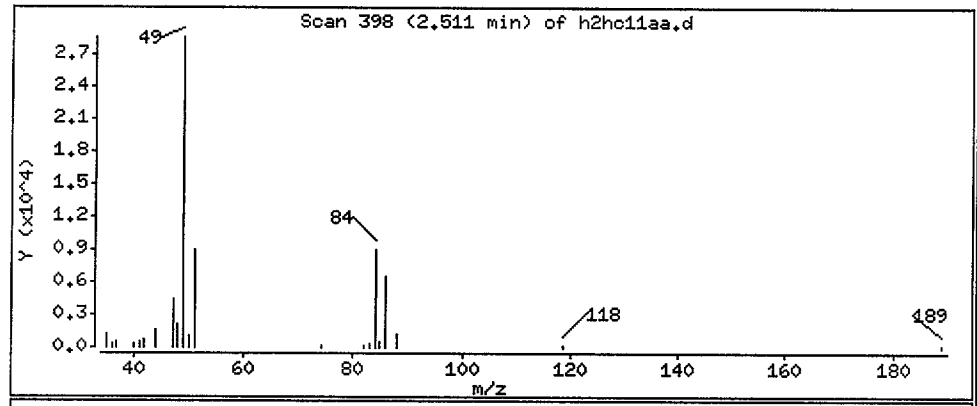
Operator: 063605

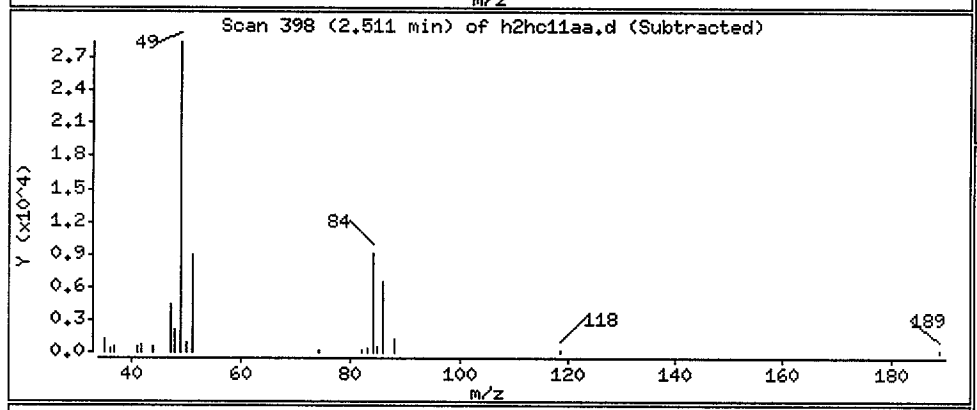
Column phase: J+W 624

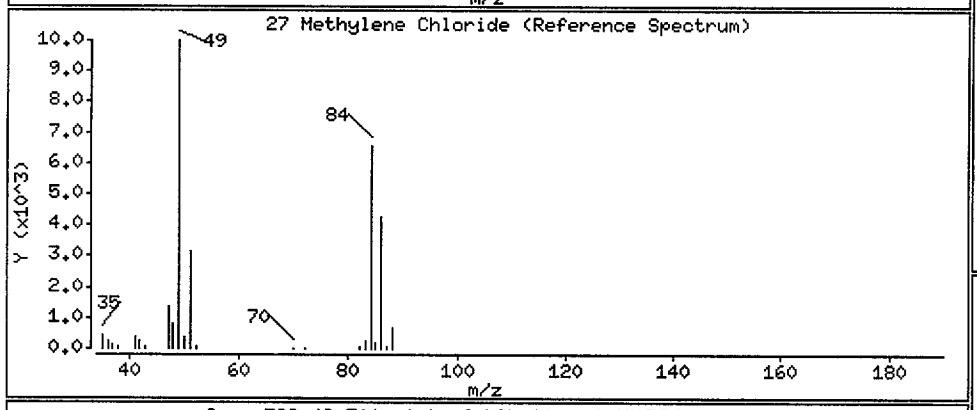
Column diameter: 0.18

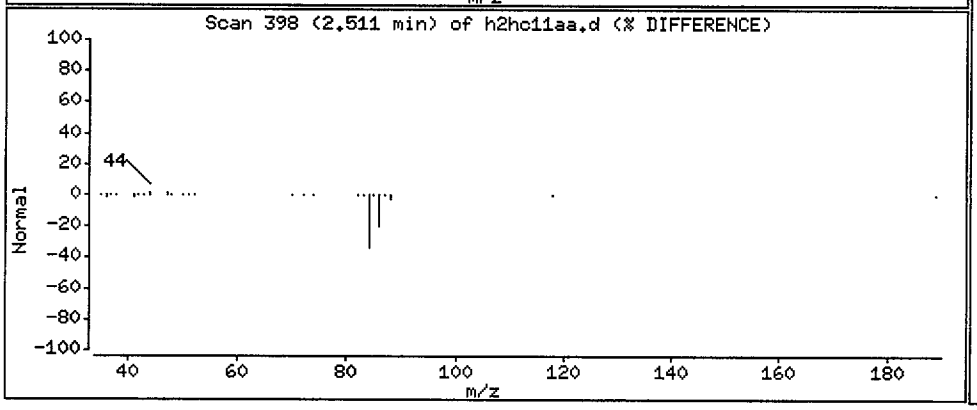
27 Methylene Chloride

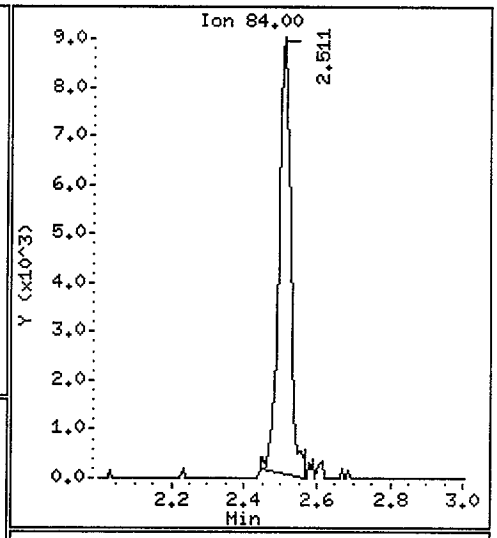
Concentration: 1.2461 ug/L

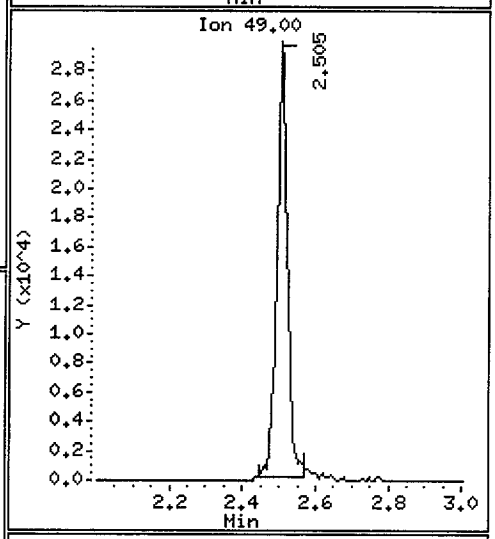


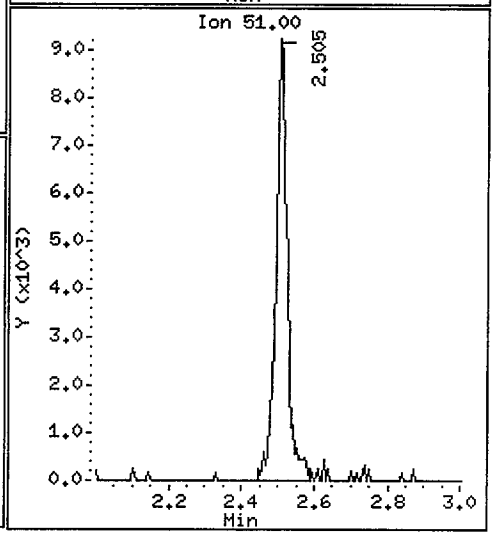












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

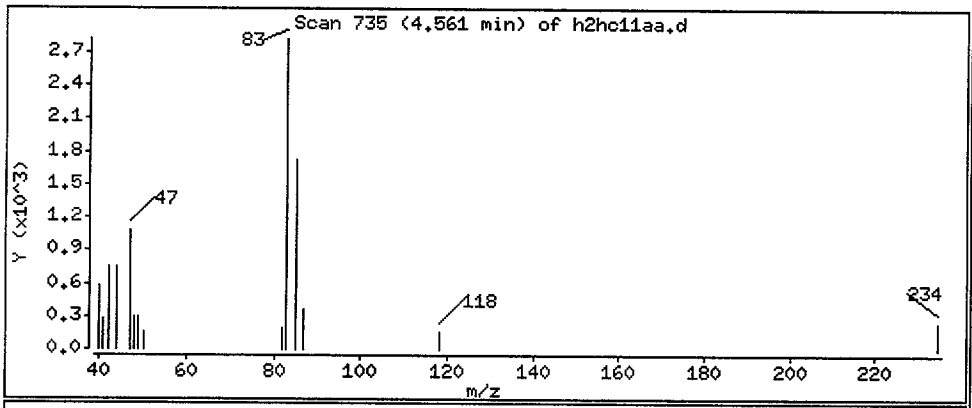
Operator: 063605

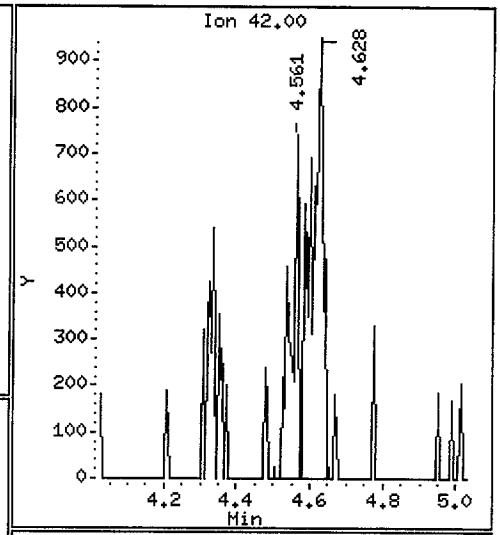
Column phase: J+W 624

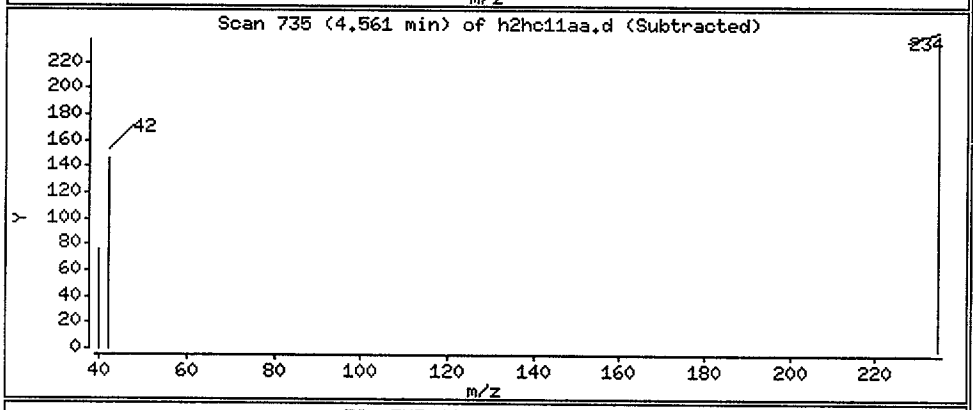
Column diameter: 0.18

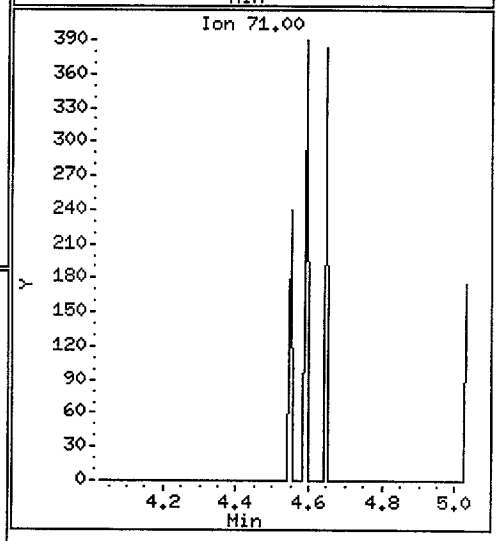
39 *THF

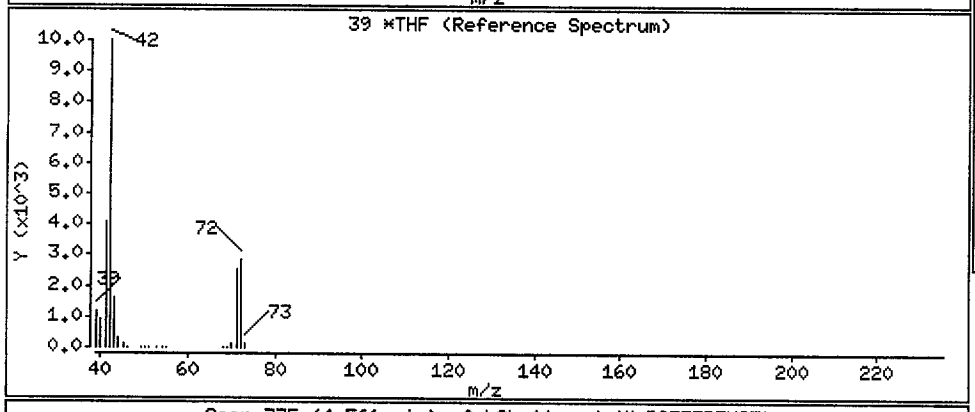
Concentration: 0.45143 ug/L

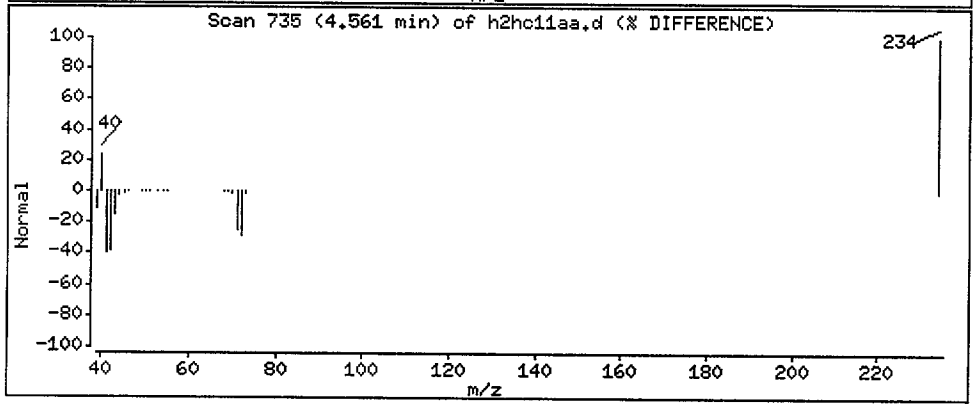












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

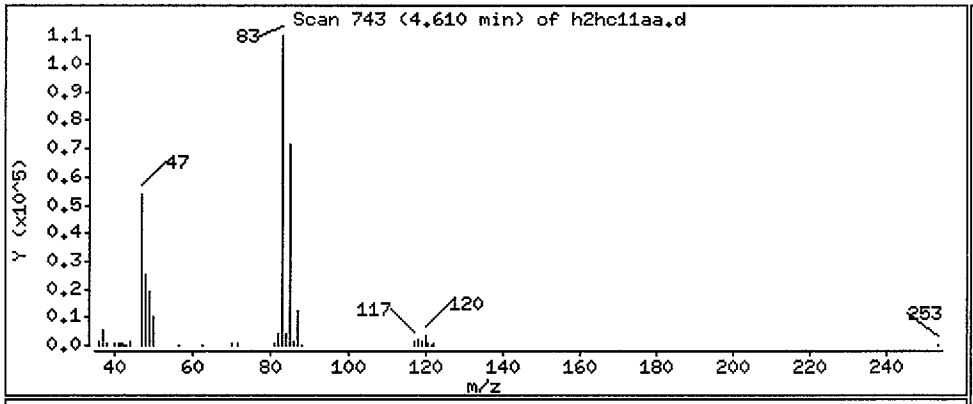
Operator: 063605

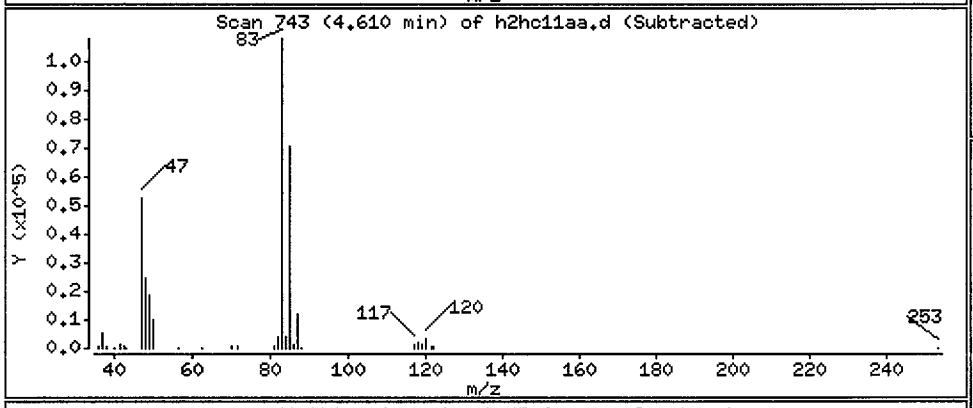
Column phase: J+W 624

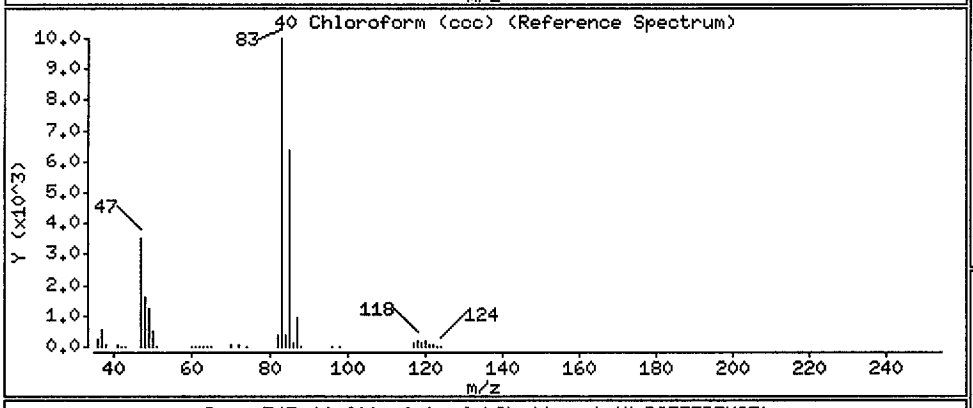
Column diameter: 0.18

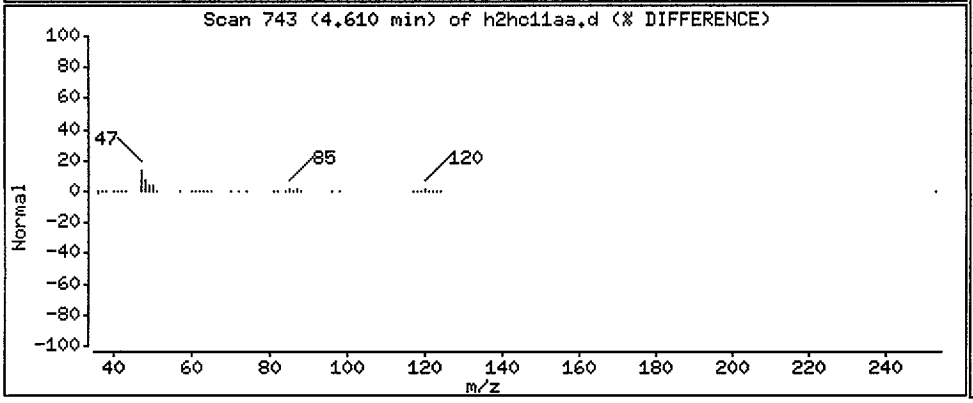
40 Chloroform (ccc)

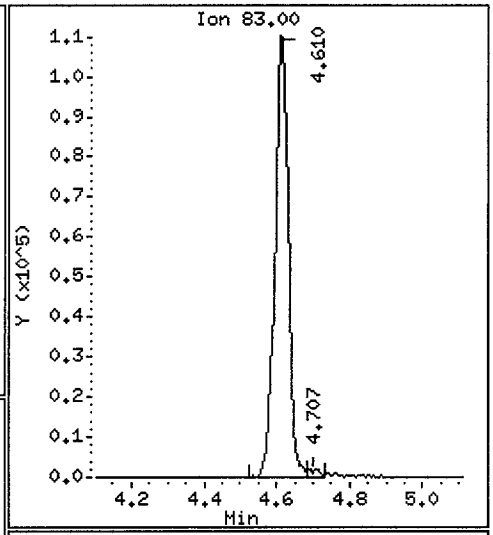
Concentration: 7.9970 ug/L

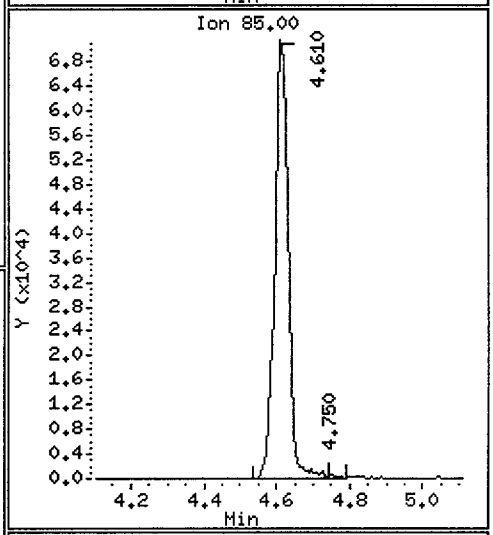


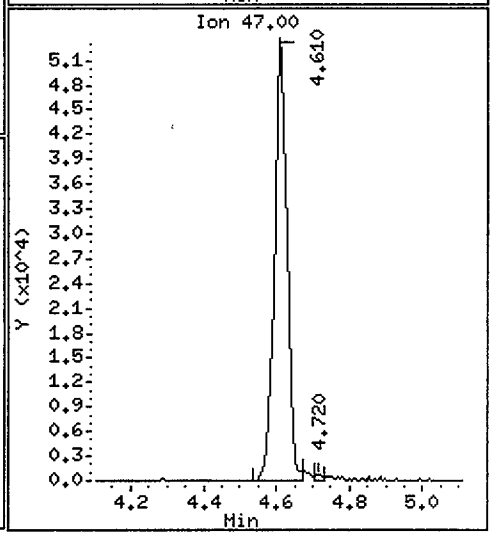












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

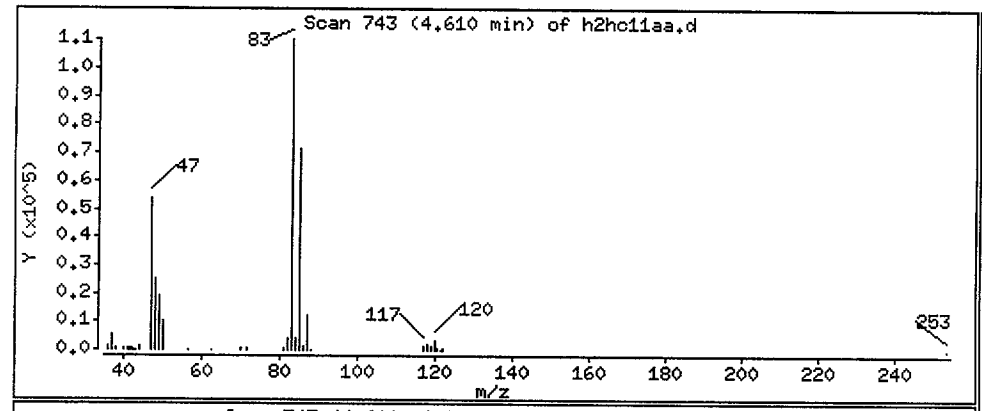
Operator: 063605

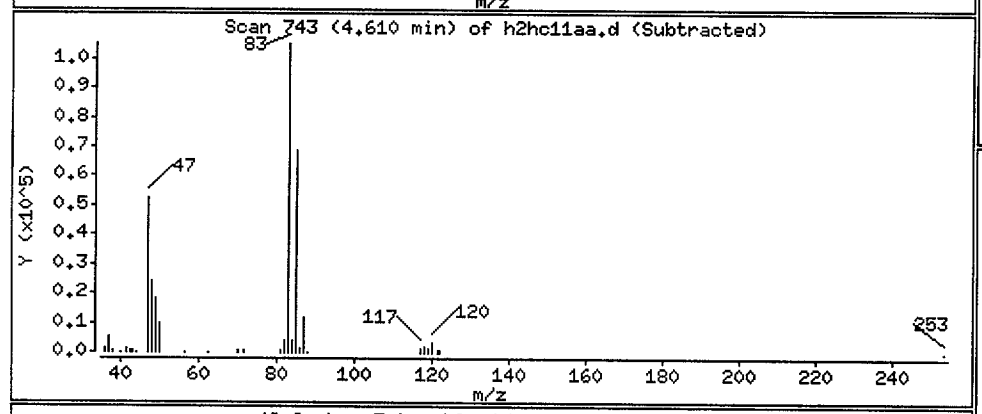
Column phase: J+W 624

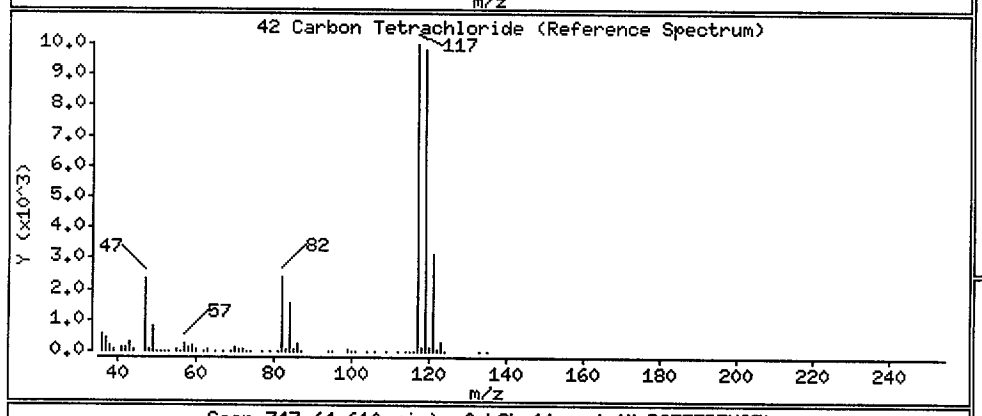
Column diameter: 0.18

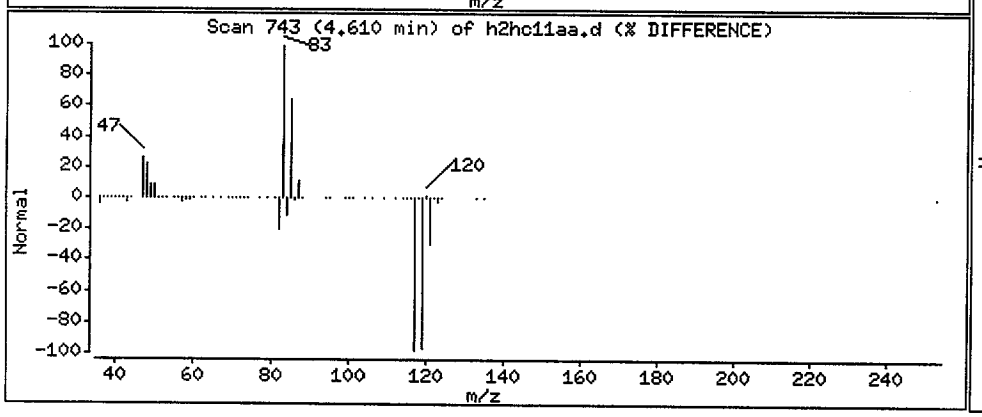
42 Carbon Tetrachloride

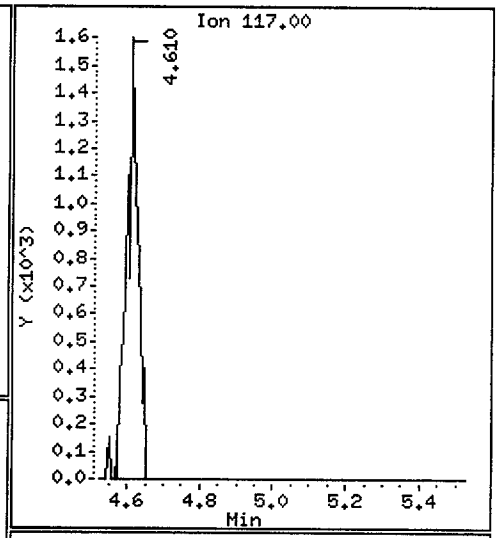
Concentration: 0.47388 ug/L

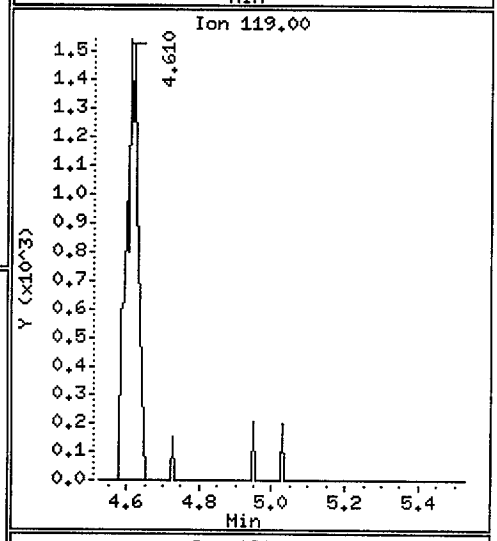


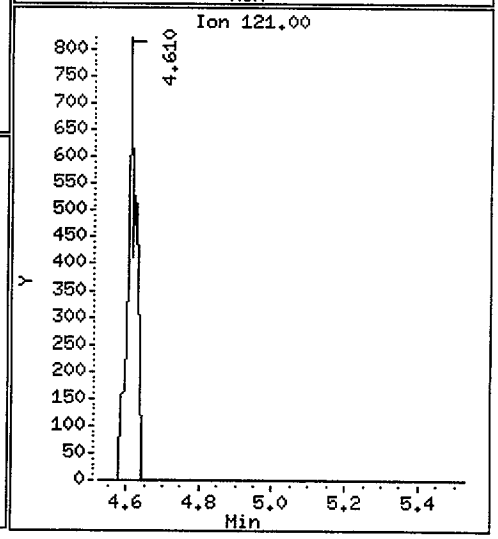












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

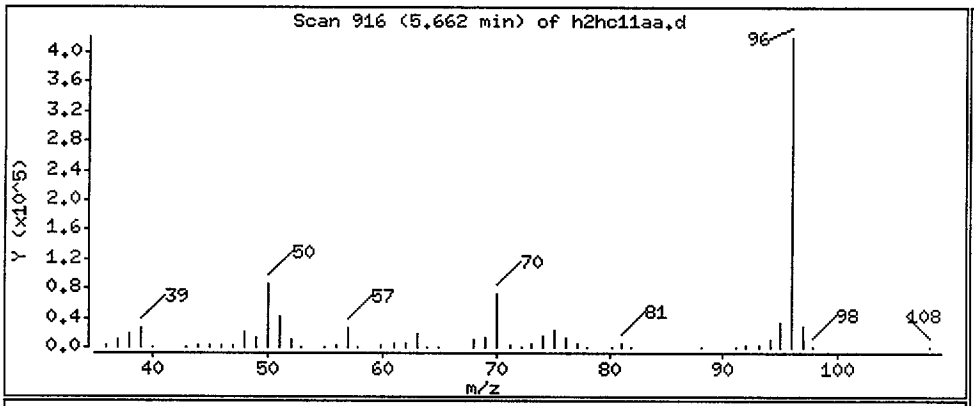
Operator: 063605

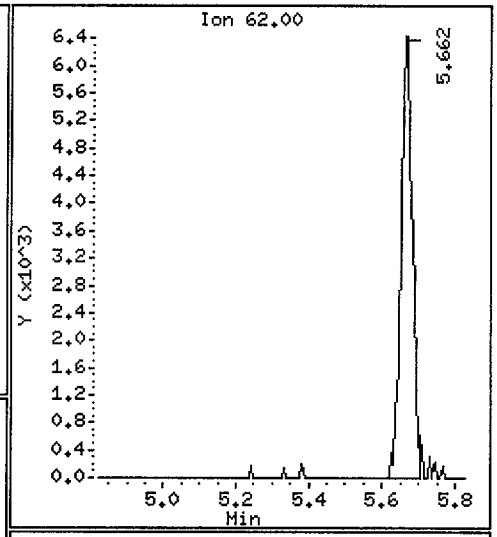
Column phase: J+W 624

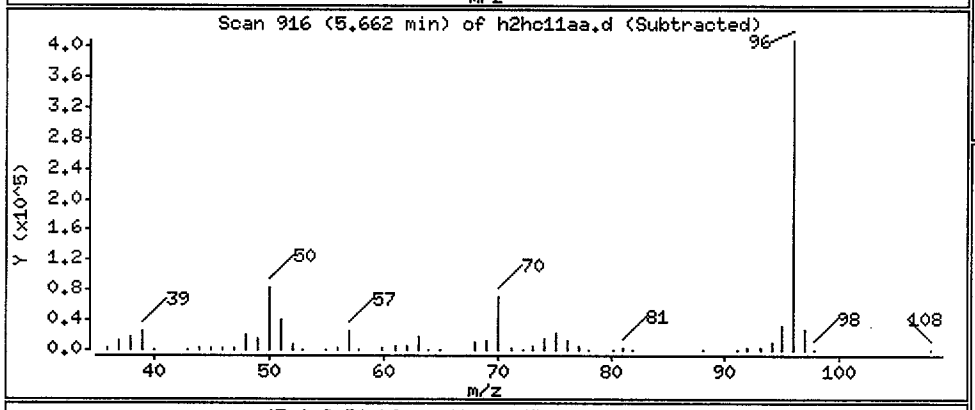
Column diameter: 0.18

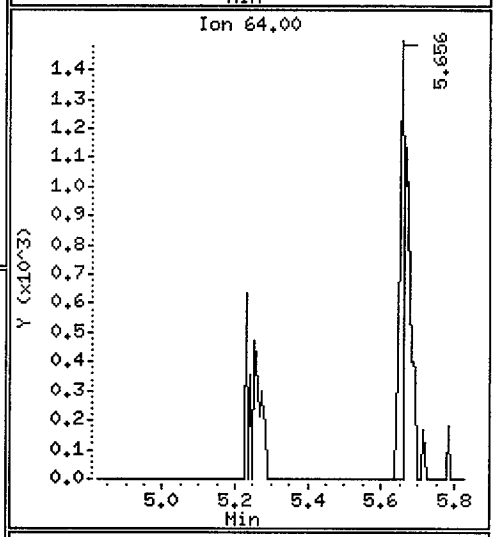
45 1,2-Dichloroethane

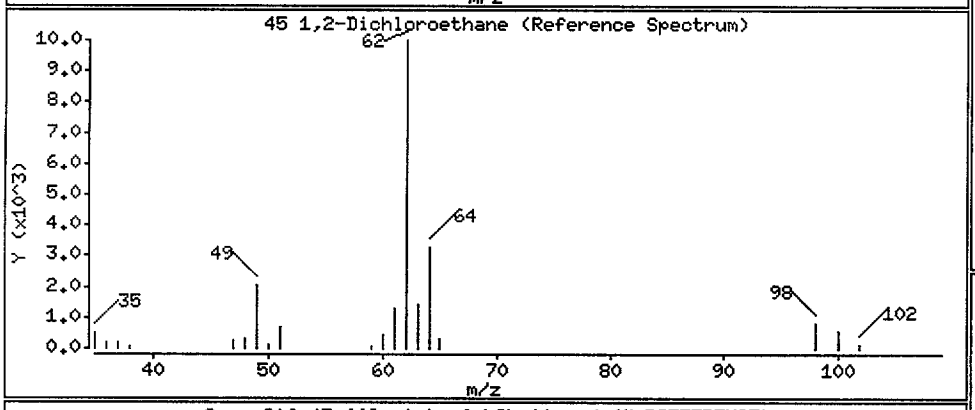
Concentration: 0.69984 ug/L

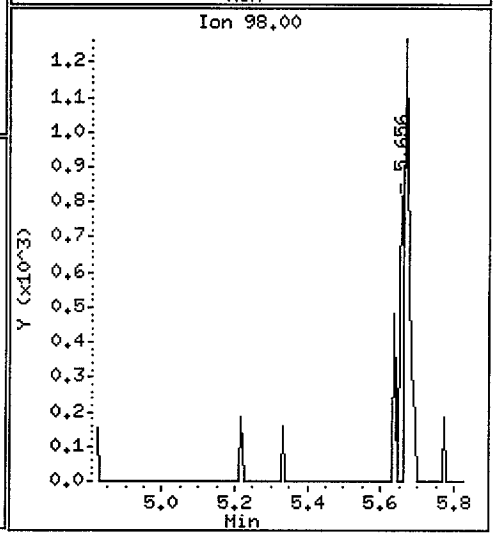


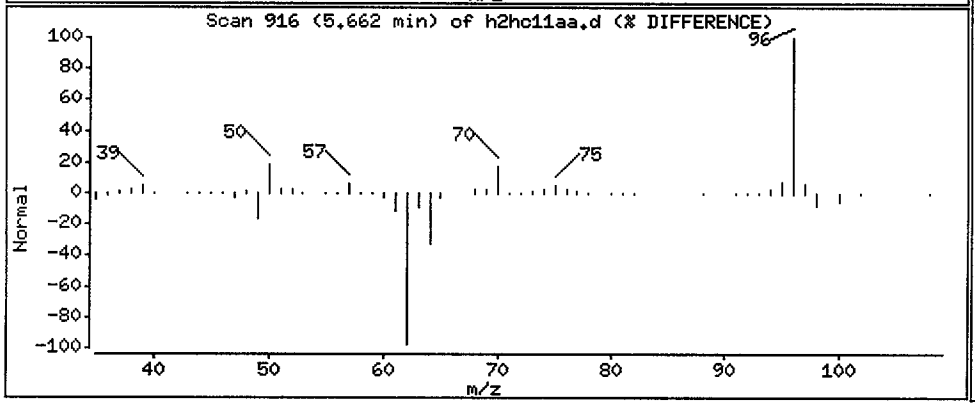












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

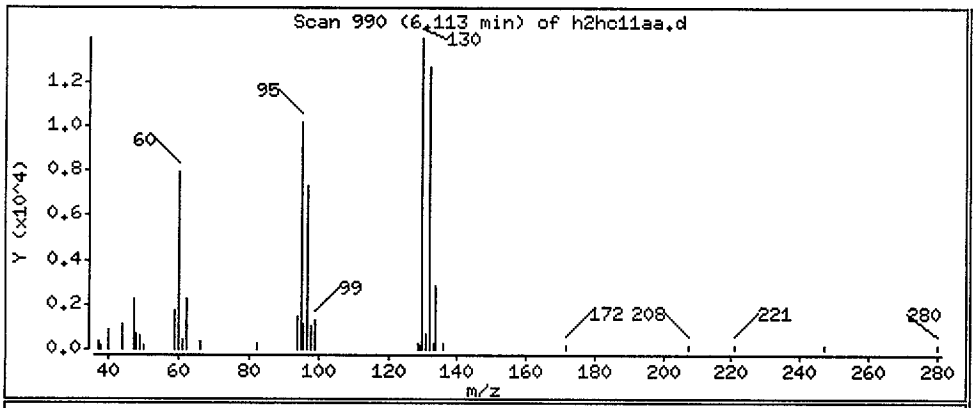
Operator: 063605

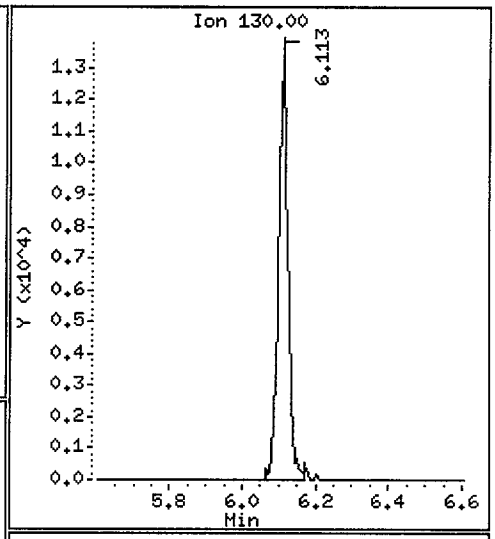
Column phase: J+W 624

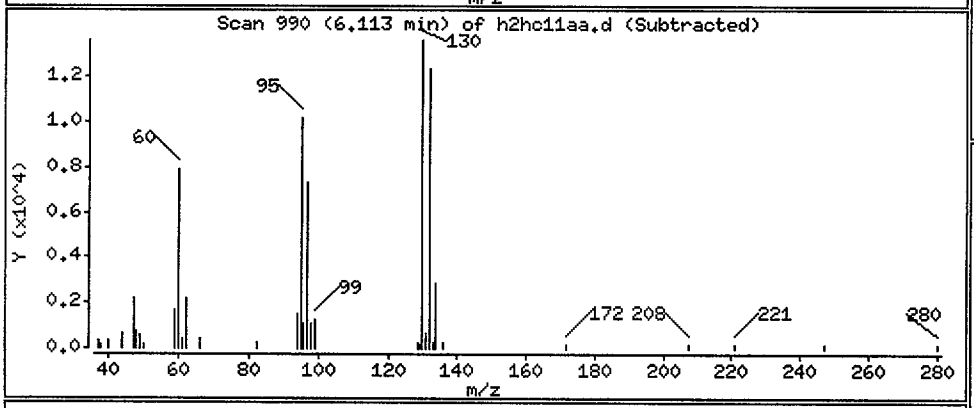
Column diameter: 0.18

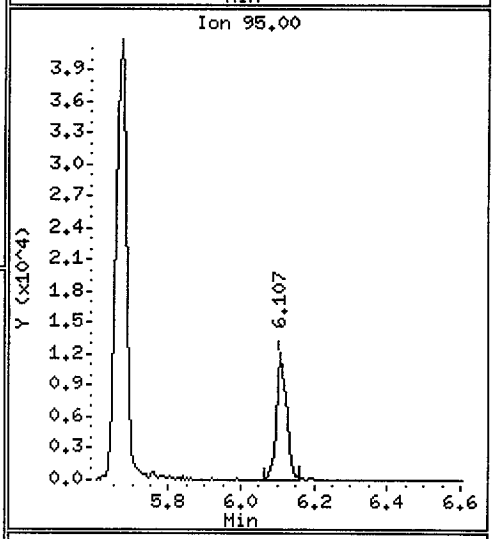
46 Trichloroethene

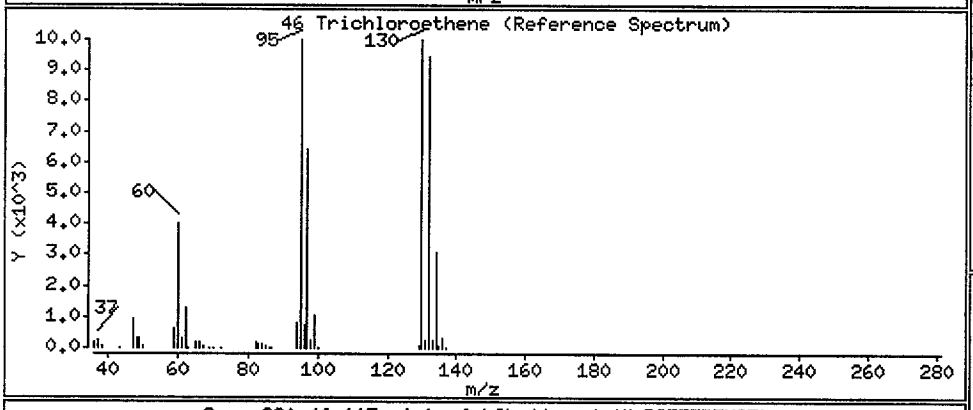
Concentration: 0.91070 ug/L

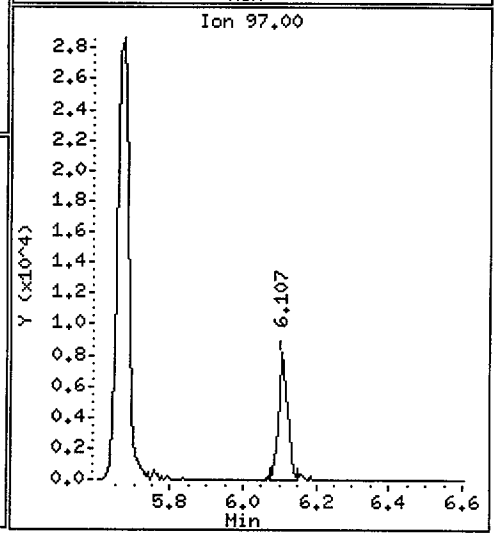


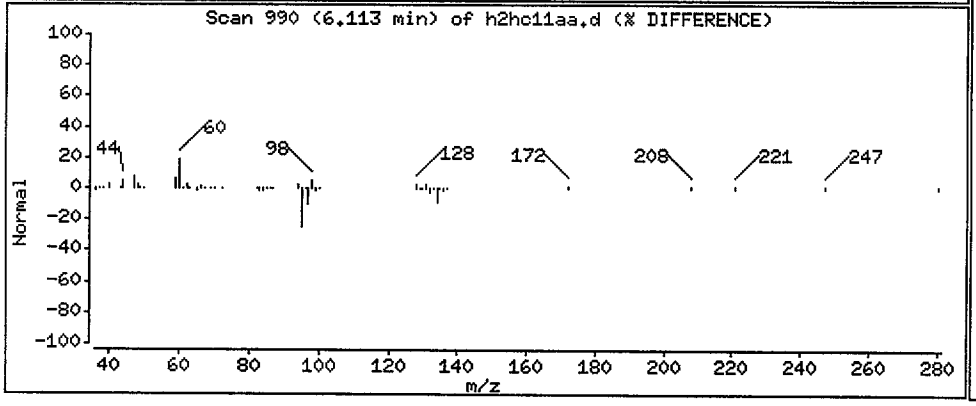












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

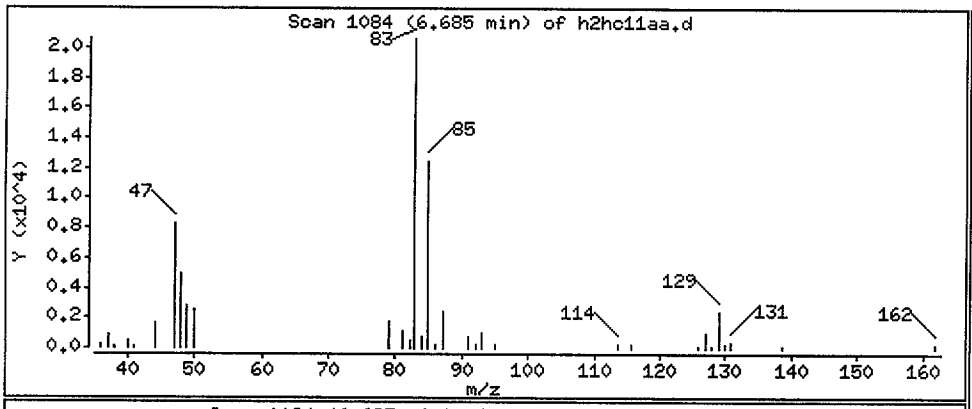
Operator: 063605

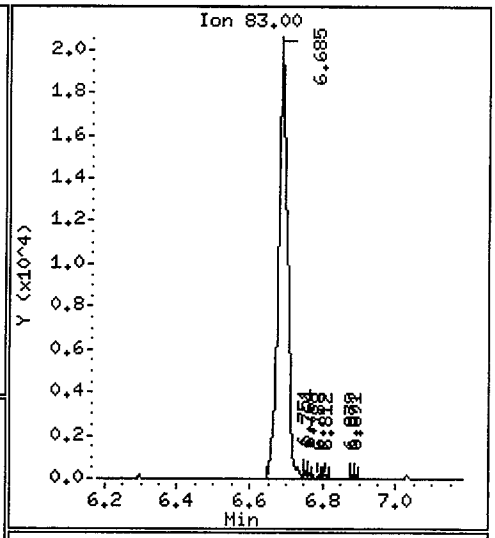
Column phase: J+W 624

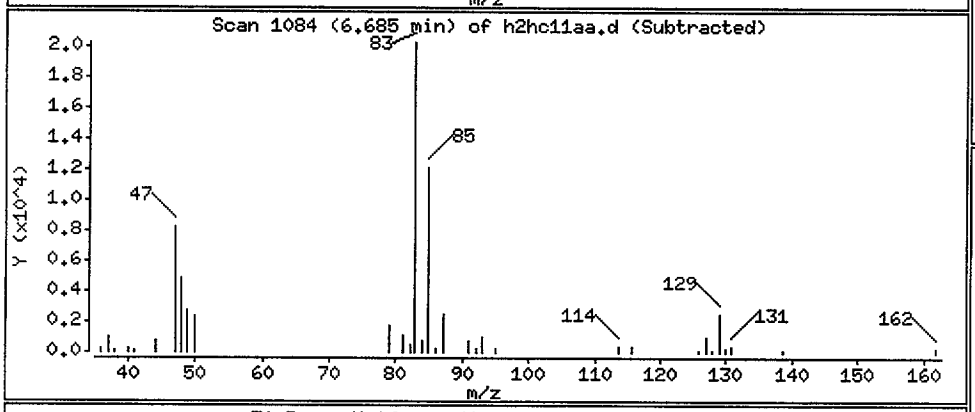
Column diameter: 0.18

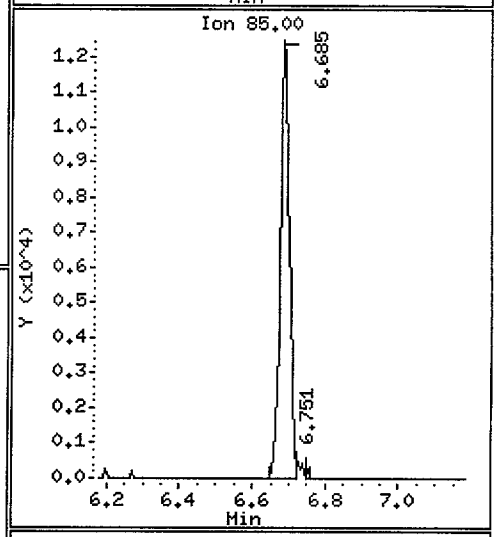
50 Bromodichloromethane

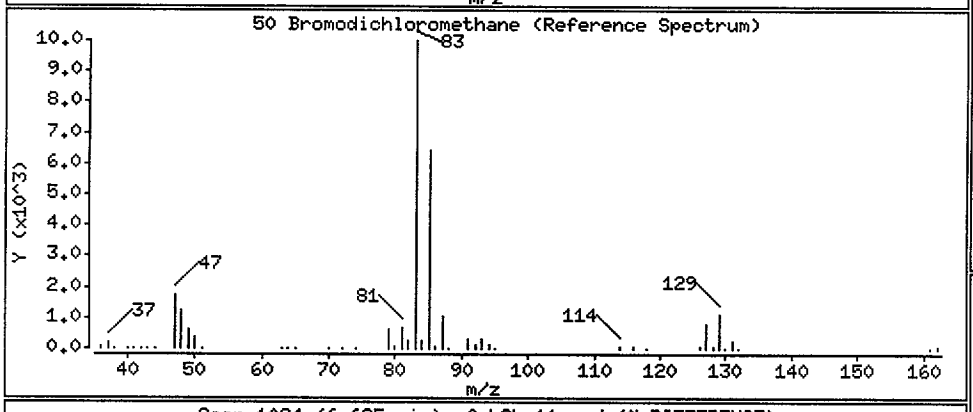
Concentration: 2.6543 ug/L

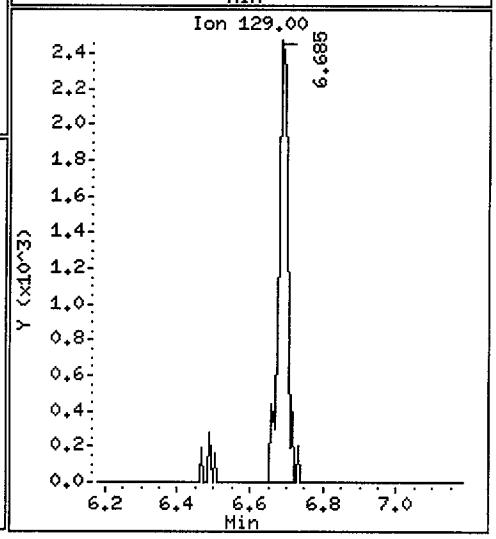


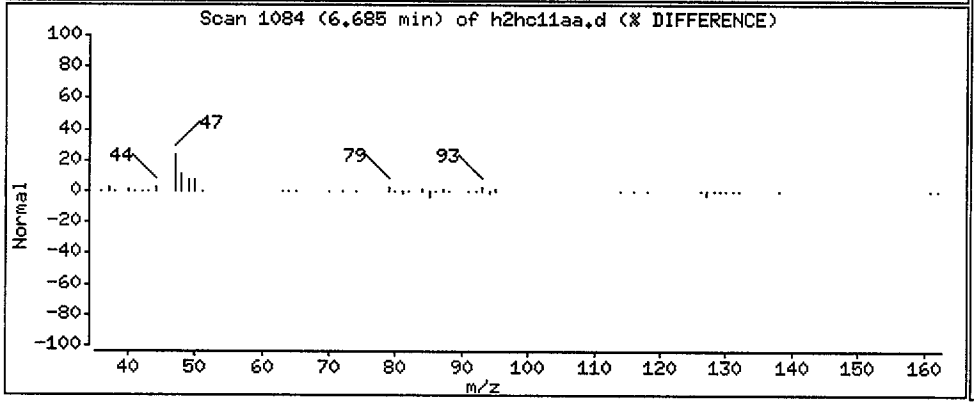












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

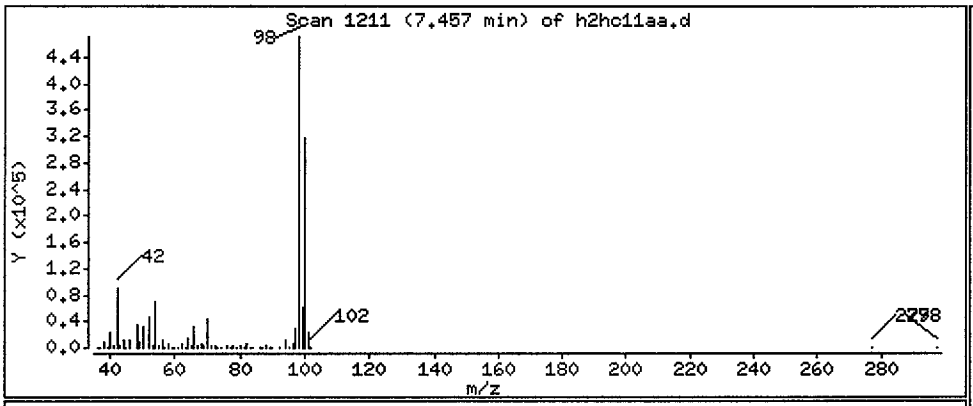
Operator: 063605

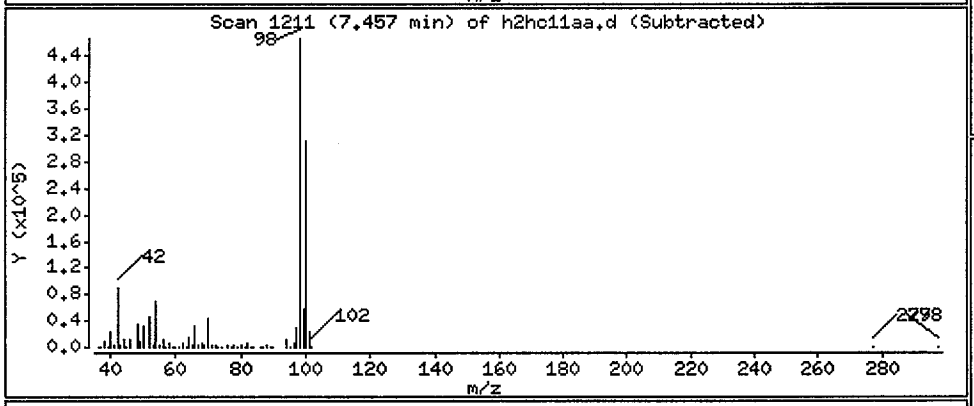
Column phase: J+W 624

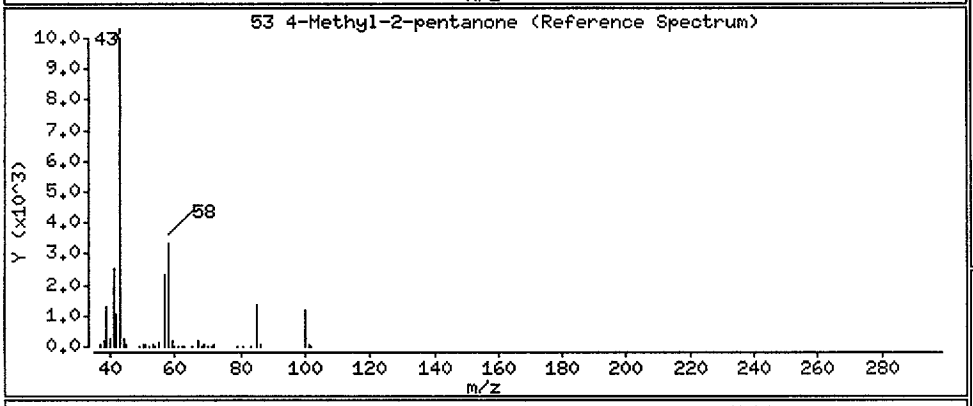
Column diameter: 0.18

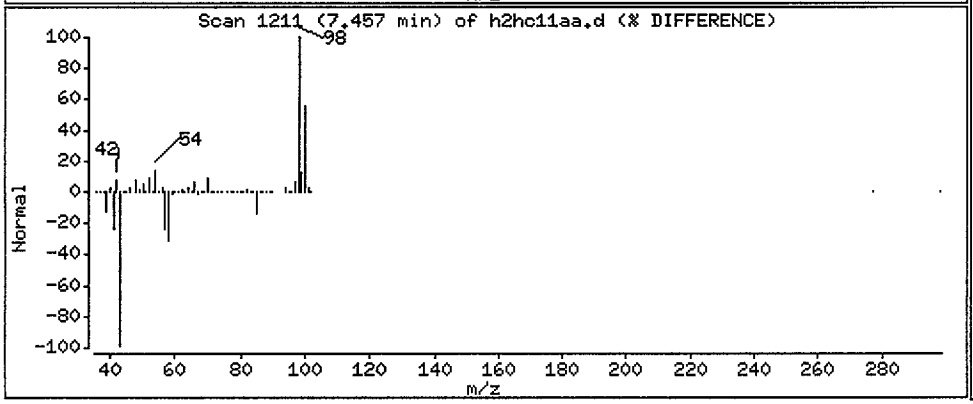
53 4-Methyl-2-pentanone

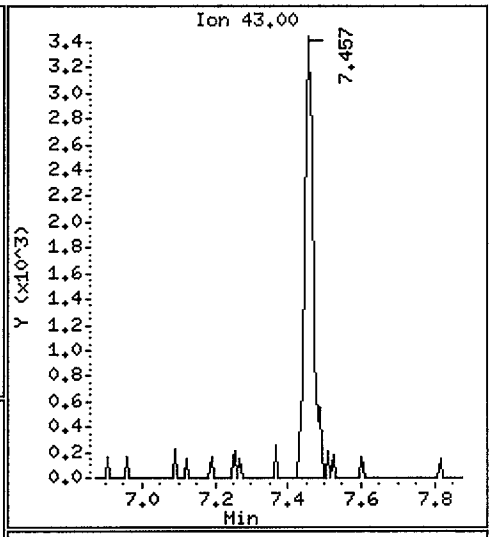
Concentration: 0.73783 ug/L

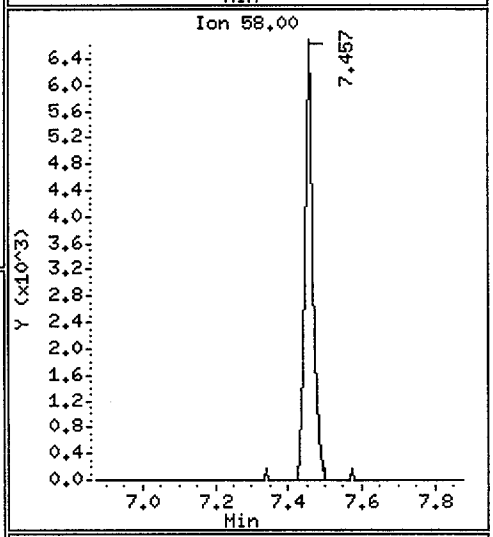


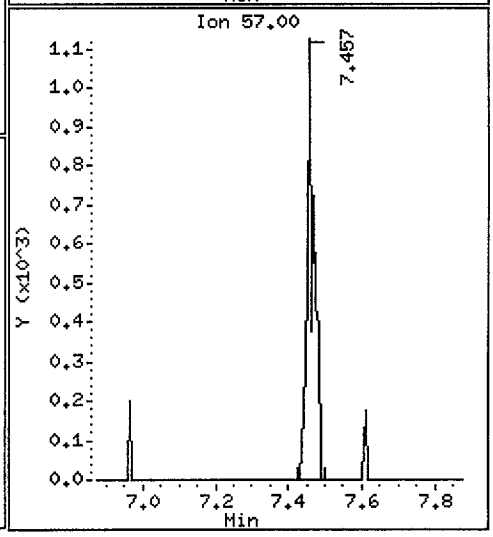












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

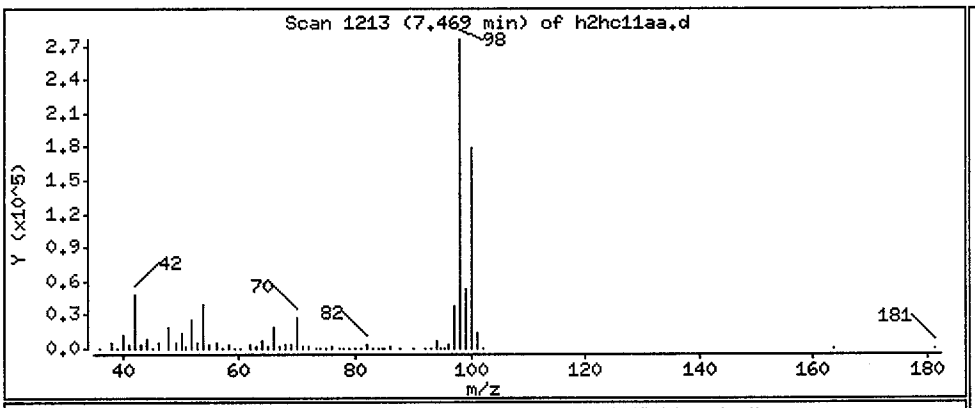
Operator: 063605

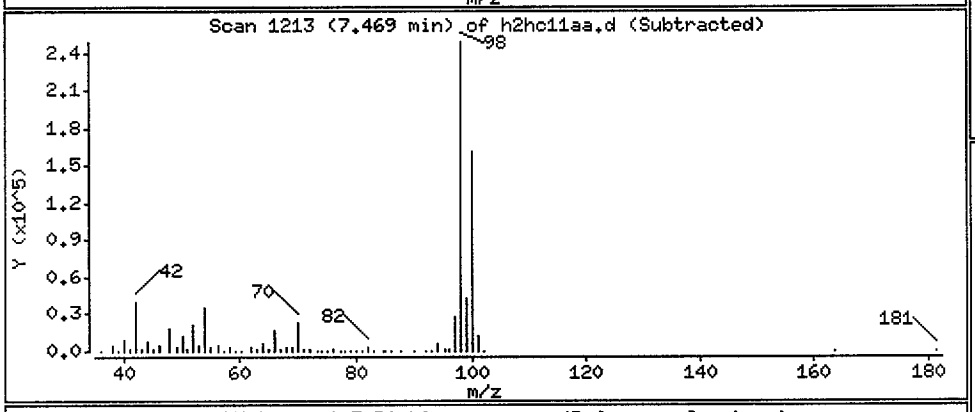
Column phase: J+W 624

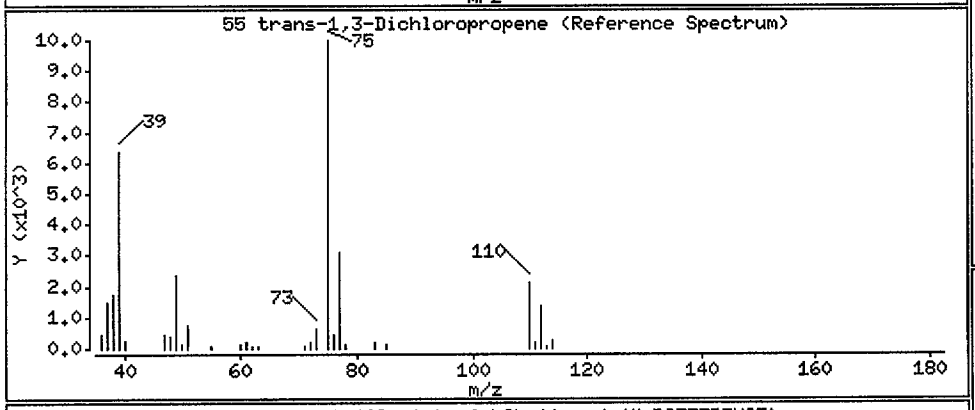
Column diameter: 0.18

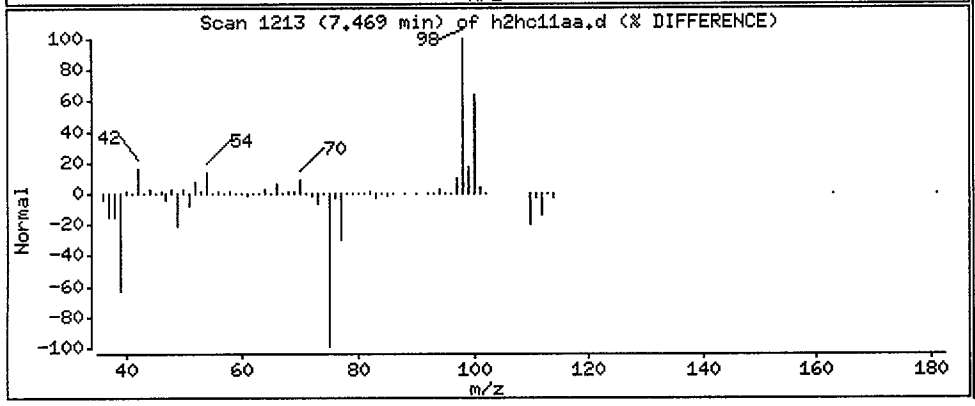
55 trans-1,3-Dichloropropene

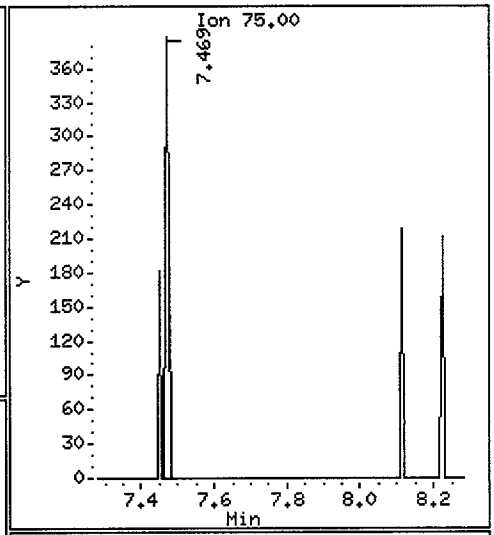
Concentration: 0.63807 ug/L

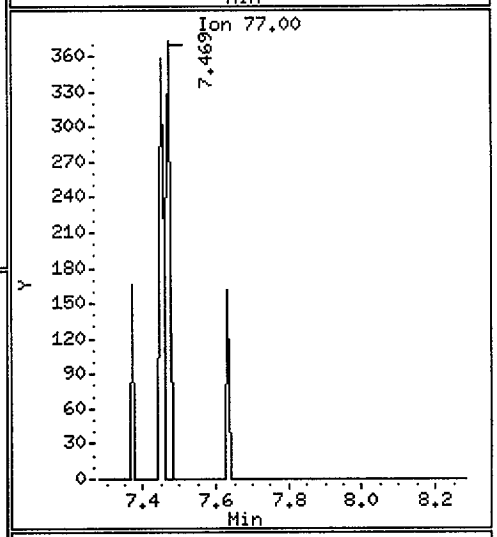


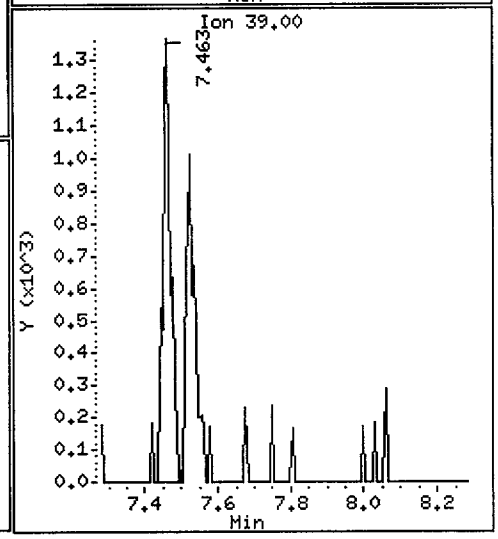












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

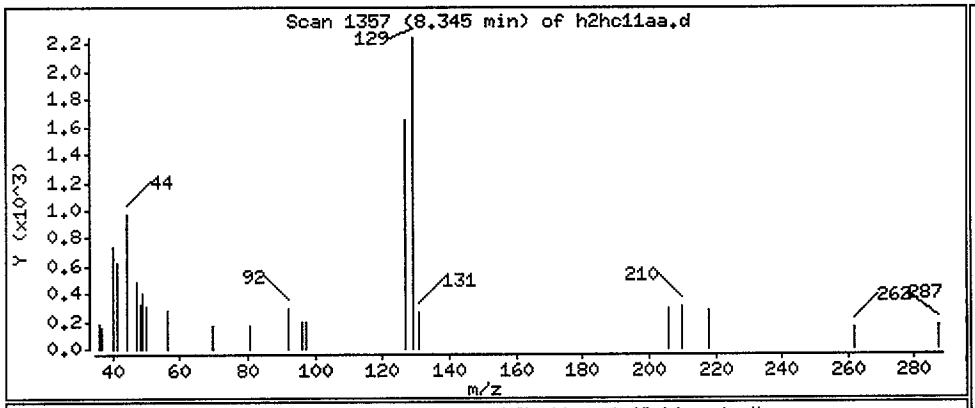
Operator: 063605

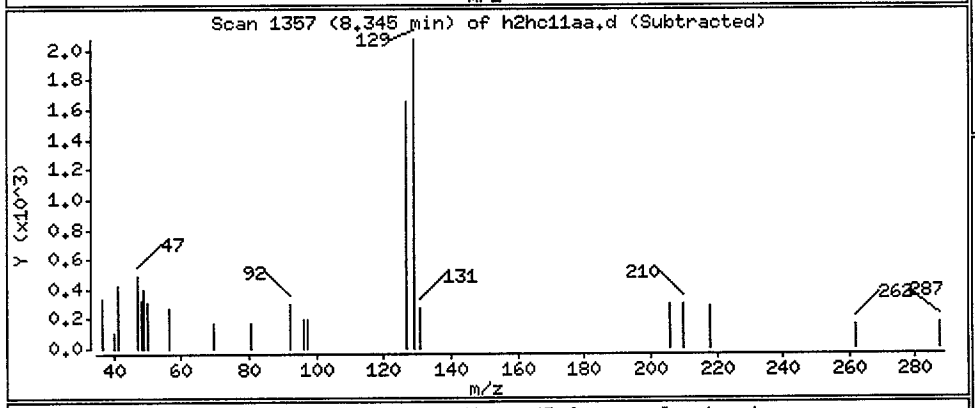
Column phase: J+W 624

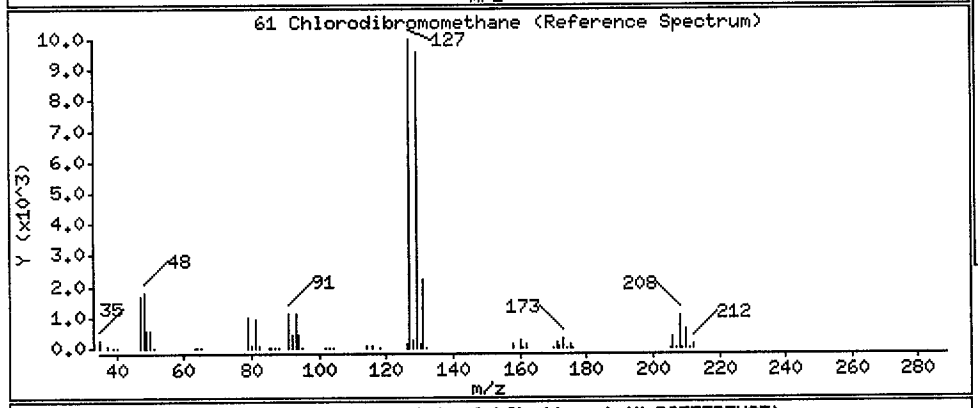
Column diameter: 0.18

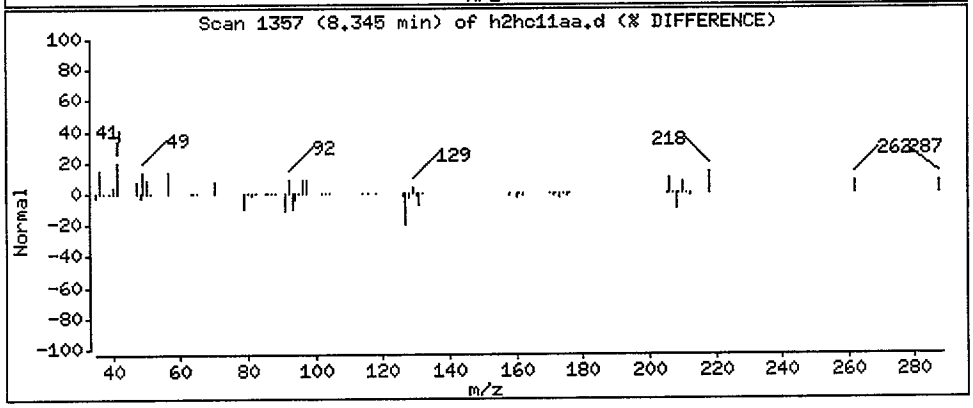
61 Chlorodibromomethane

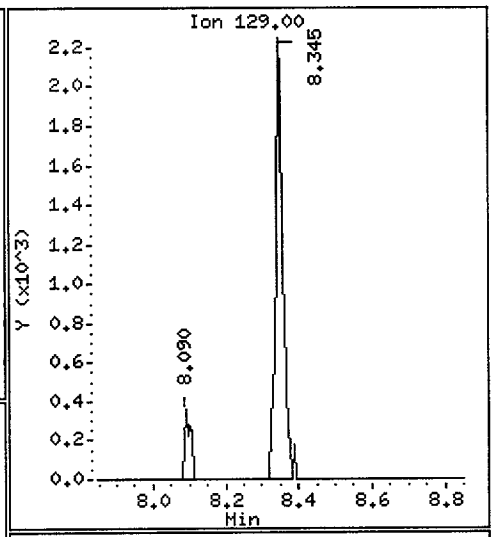
Concentration: 1.1084 ug/L

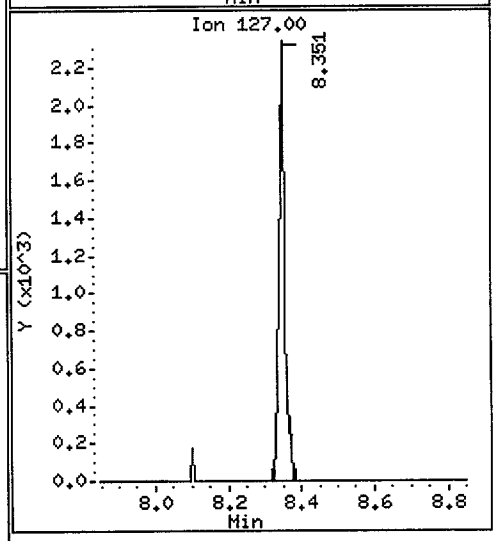












Data File: /chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

Purge Volume: 25.0

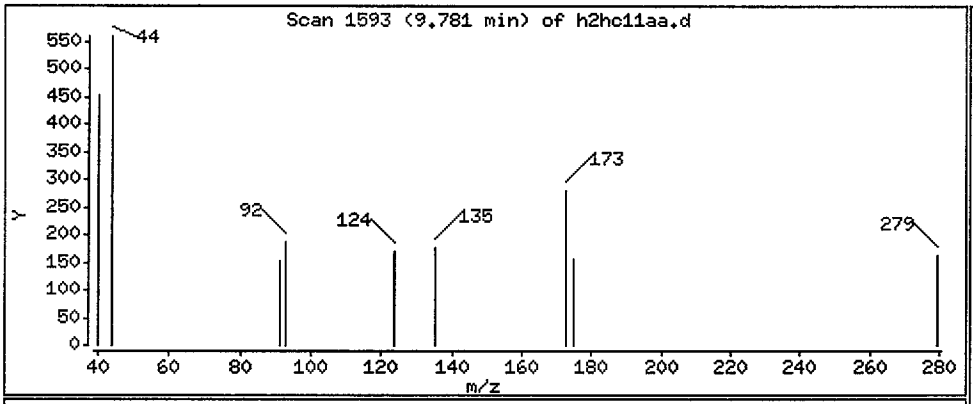
Operator: 063605

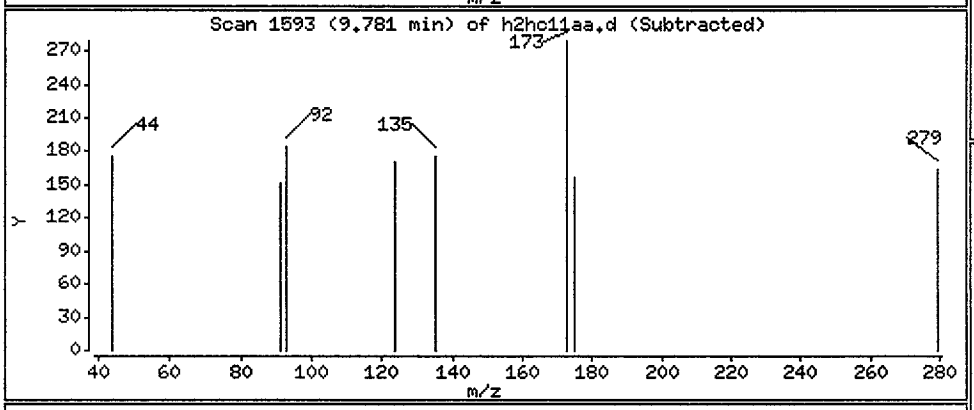
Column phase: J+W 624

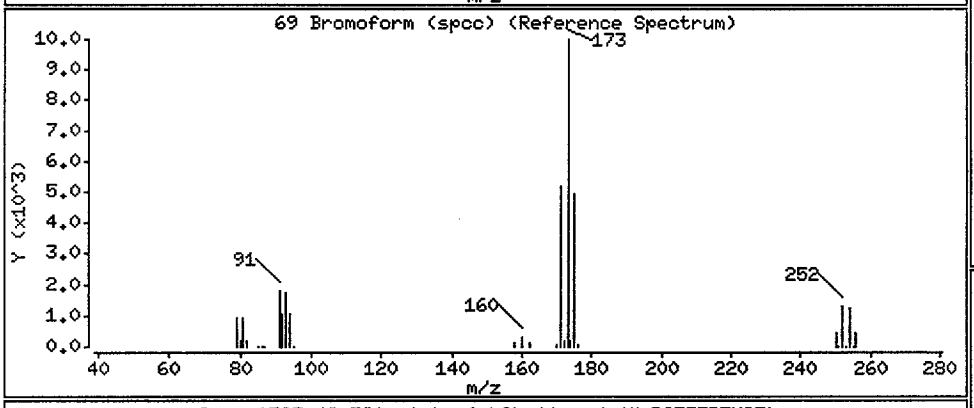
Column diameter: 0.18

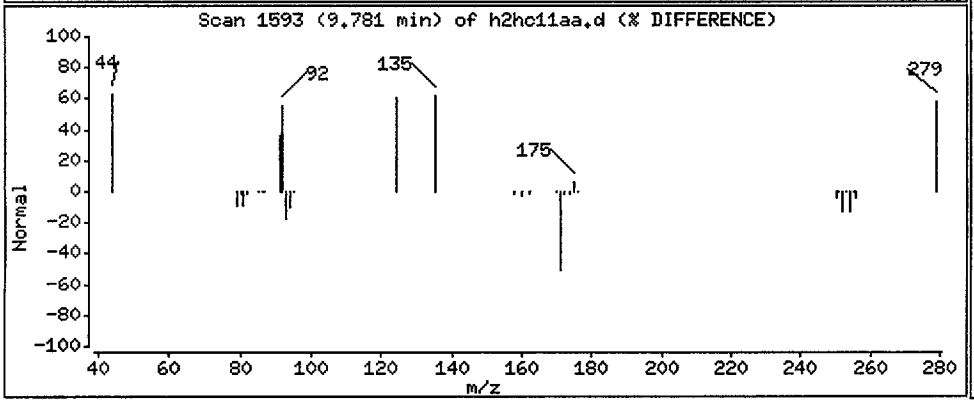
69 Bromoform (spcc)

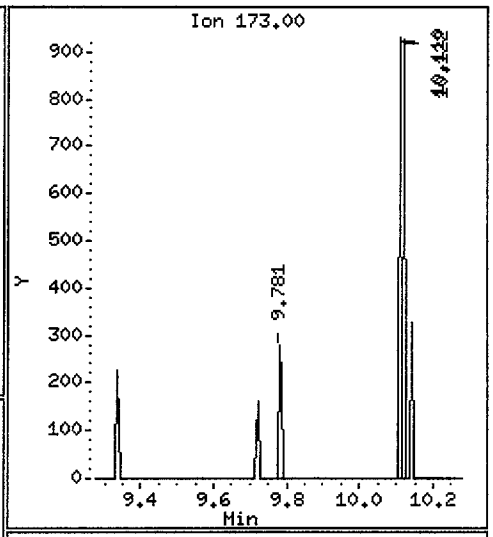
Concentration: 0.86336 ug/L

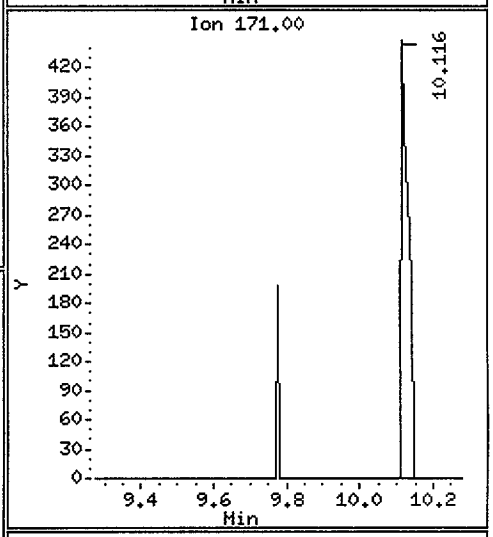


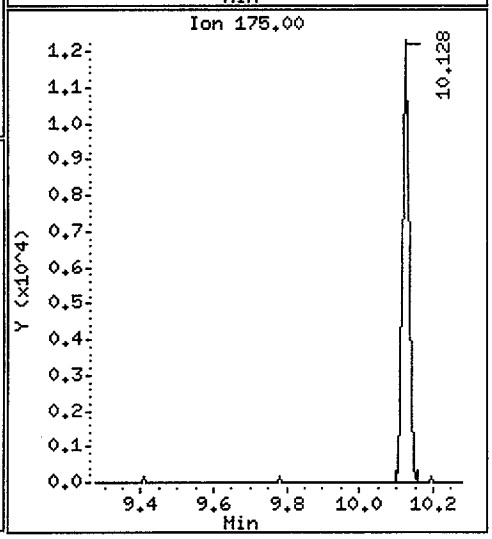












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Report Date: 07-Apr-2006 14:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hc11aa.d
Lab Smp Id: H2HC11AA Client Smp ID: G-3102-R3-VOST DI W
Inj Date : 05-APR-2006 17:49
Operator : 063605 Inst ID: mz.i
Smp Info : H2HC11AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.669	1040862	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide Air				CAS #: 124-38-9			
0.905	1232776	11.8437987	11.844	5	NIST05.1	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hc11aa.d

Date : 05-APR-2006 17:49

Client ID: G-3102-R3-VOST DI W

Instrument: mz.i

Sample Info: H2HC11AA,1,0,,

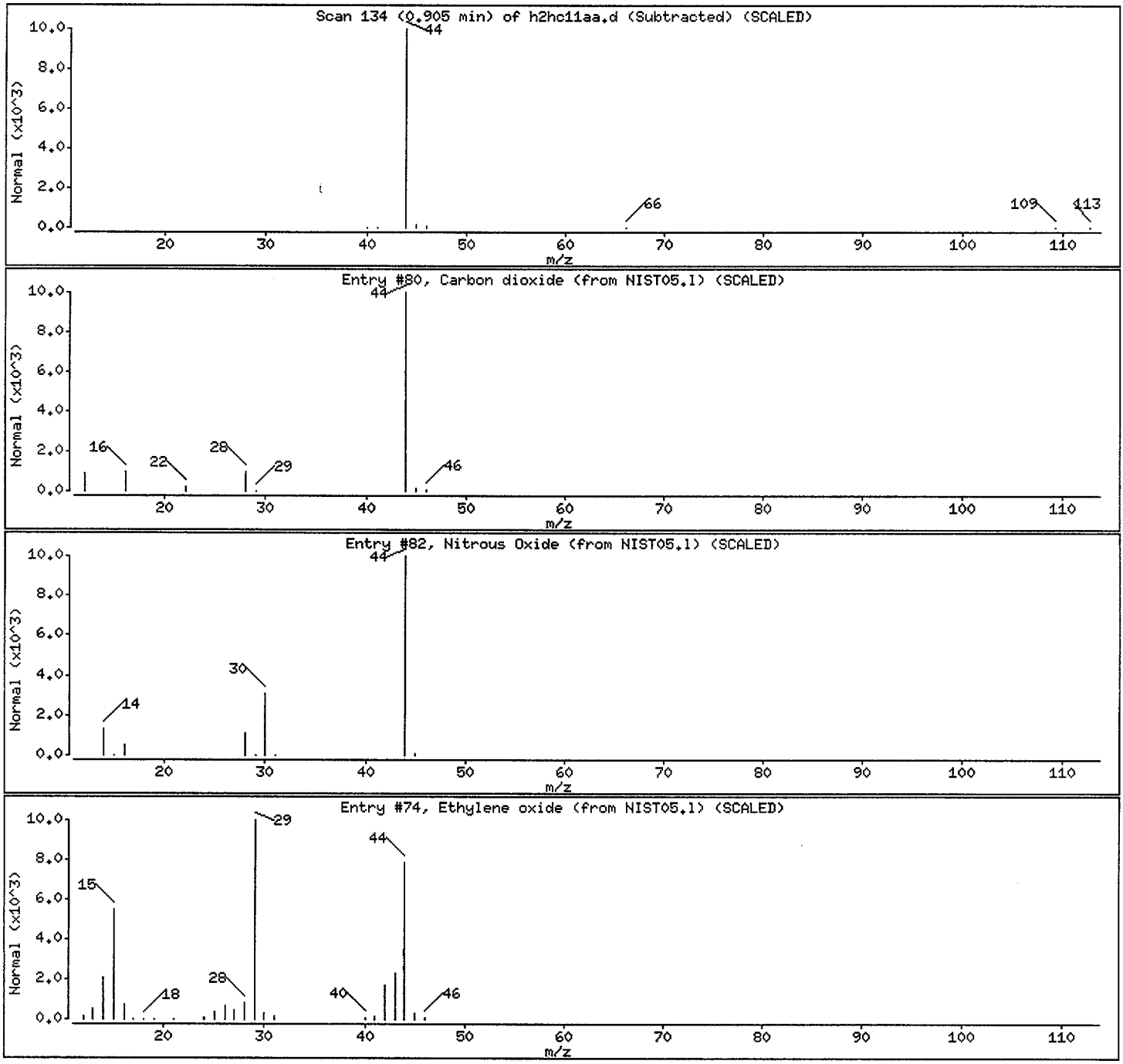
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: A-5363 MEDIA CHECK TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-037 **Work Order #...:** H2HC21AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.010	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: A-5363 MEDIA CHECK TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-037 **Work Order #...:** H2HC21AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(50 - 134)
1,2-Dichloroethane-d4	96	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5363 MEDIA CHECK TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-037 **Work Order #:** H2HC21AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Report Date: 07-Apr-2006 11:27

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Lab Smp Id: H2HC21AA Client Smp ID: A-5363 MEDIA CHECK
Inj Date : 07-APR-2006 11:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC21AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04/07/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	868441	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	179778	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	237573	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.851)	141170	10.1448	0.25362
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	115123	9.56694	0.23917
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	754265	9.54866	0.23872
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	198169	8.27107	0.20678
15 Bromomethane	94	1.417	1.418	(0.250)	1575	1.00432	0.025108
22 Acetone	43	2.129	2.123	(0.375)	1265	3.49093	0.087273
23 *Iodomethane	142	2.177	2.184	(0.384)	791	0.55718	0.013930
39 *THF	42	4.556	4.532	(0.803)	886	0.43010	0.010752
45 1,2-Dichloroethane	62	5.669	5.335	(0.999)	14494	0.79924	~~0.019981~~
53 4-Methyl-2-pentanone	43	7.464	7.386	(1.315)	5517	0.72753	~~0.018188~~
55 trans-1,3-Dichloropropene	75	7.926	7.793	(0.887)	68	0.62946	~~0.015736~~
69 Bromoform (spcc)	173	10.128	9.782	(1.133)	968	1.13845	~~0.028461~~

- see report for (m)

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Report Date: 14-Apr-2006 16:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Lab Smp Id: H2HC21AA Client Smp ID: A-5363 MEDIA CHECK
Inj Date : 07-APR-2006 11:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC21AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.675	5.676	(1.000)	868441	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	179778	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	237573	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.851)	141170	10.1447	0.25362
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.923)	115123	9.56693	0.23917
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	754265	9.54871	0.23872
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	198169	8.27106	0.20678
15 Bromomethane	94	1.417	1.418	(0.250)	1575	1.00428	0.025107
22 Acetone	43	2.129	2.123	(0.375)	2612	3.74686	0.093672(M)
23 *Iodomethane	142	2.177	2.184	(0.384)	791	0.55717	0.013929
39 *THF	42	4.556	4.532	(0.803)	886	0.42999	0.010750

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Report Date: 07-Apr-2006 11:27

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hc21aa.d
Lab Smp Id: H2HC21AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: A-5363 MEDIA CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	868441	-8.83
2 Chlorobenzene-d5	164101	82050	328202	179778	9.55
3 1,4 Dichlorobenze	204390	102195	408780	237573	16.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.68	-0.01
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Report Date: 07-Apr-2006 11:27

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HC21AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: A-5363 MEDIA CHECK
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

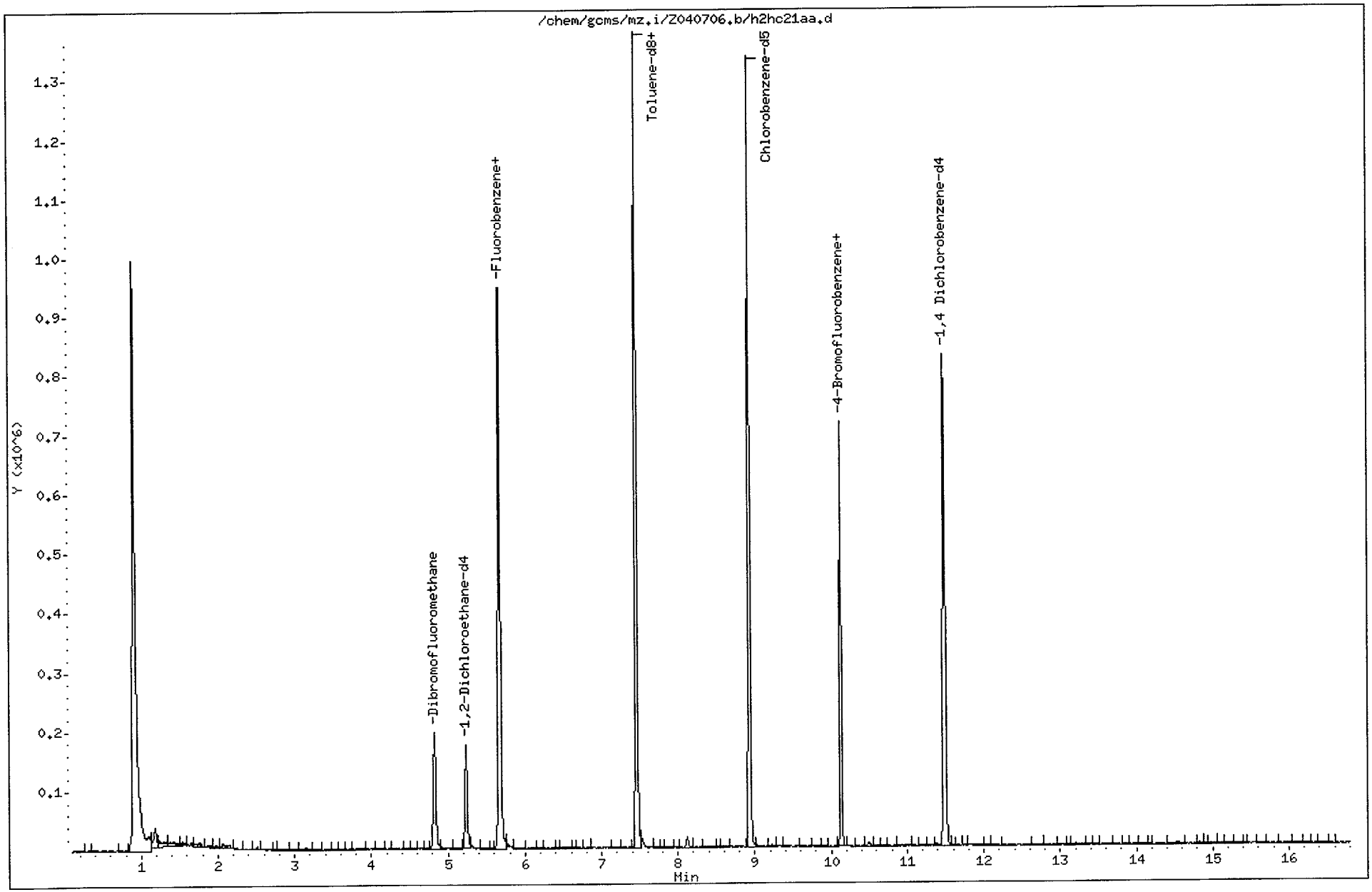
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25362	101.45	50-150
$ 5 1,2-Dichloroethane	0.25000	0.23917	95.67	50-150
$ 6 Toluene-d8	0.25000	0.23872	95.49	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20678	82.71	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Date : 07-APR-2006 11:10
Client ID: A-5363 MEDIA CHECK
Sample Info: H2HC21AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

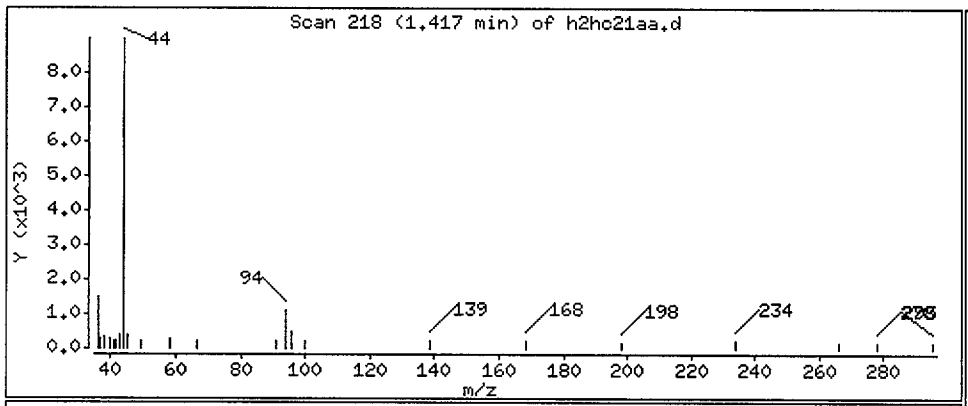
Operator: 22980

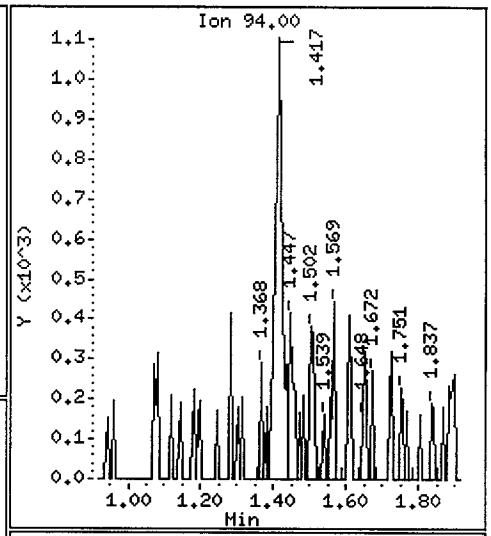
Column phase: J+W 624

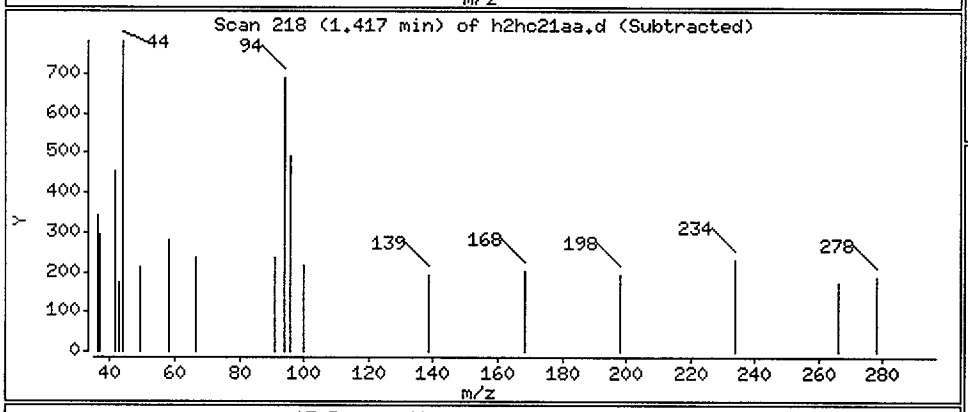
Column diameter: 0.18

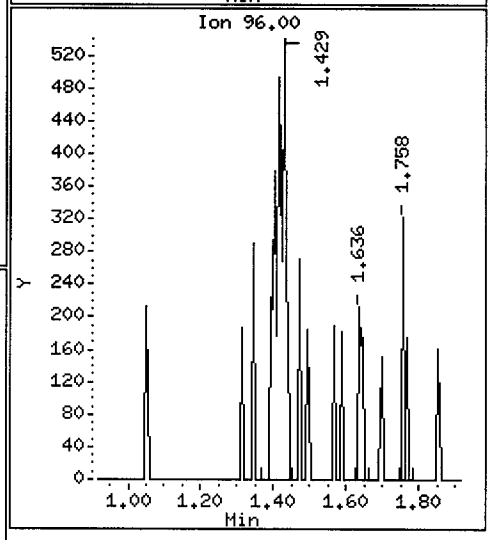
15 Bromomethane

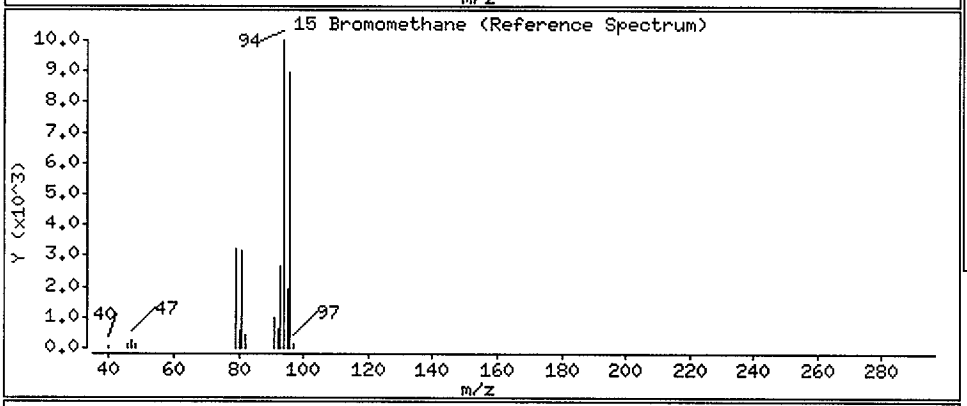
Concentration: 0.025108 ug

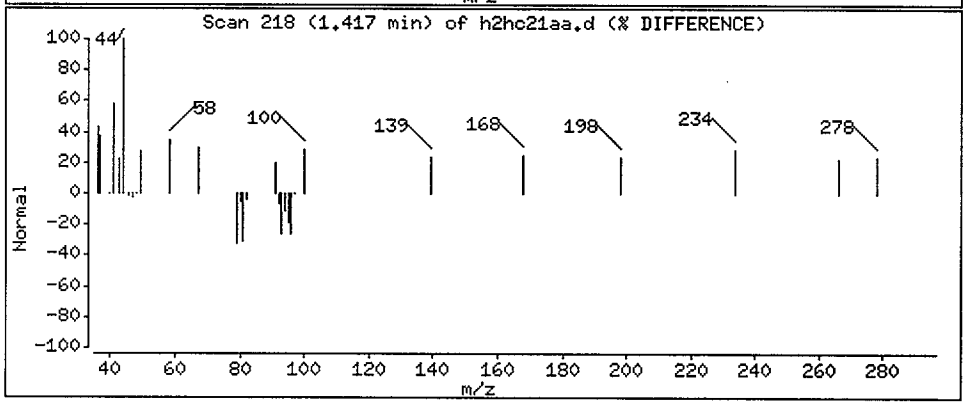












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

Operator: 22980

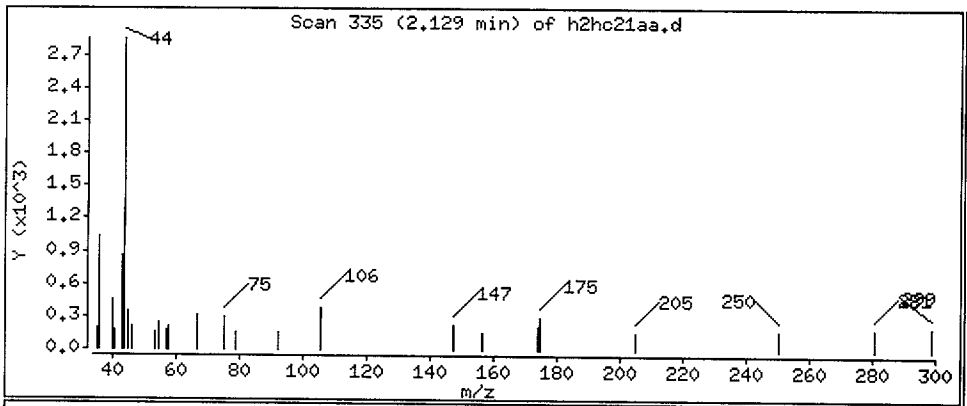
DLW 4-14-06 (1)

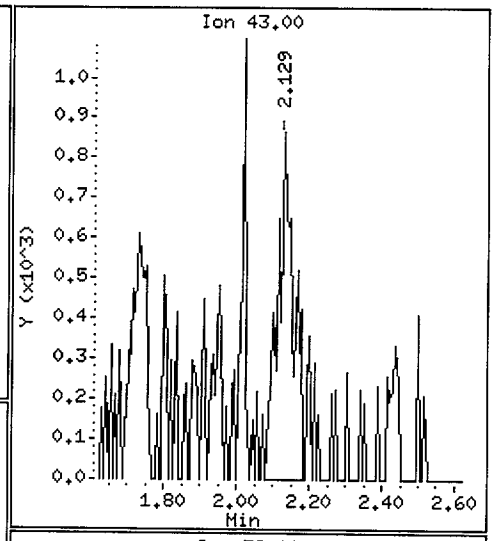
Column phase: J+W 624

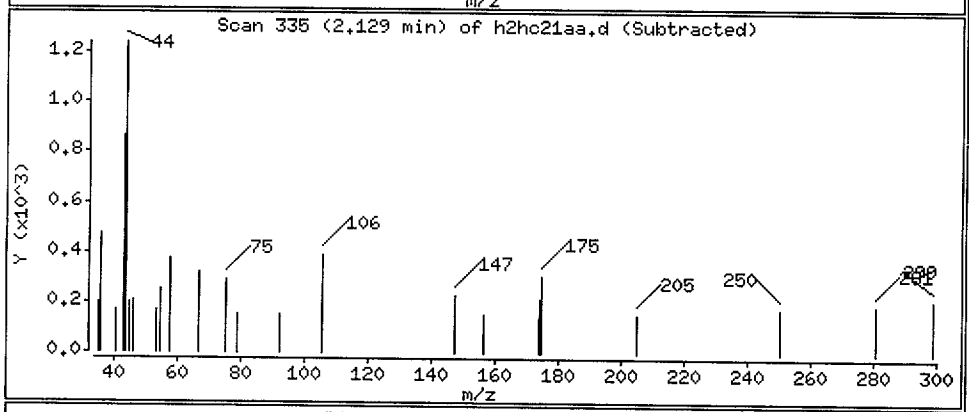
Column diameter: 0.18

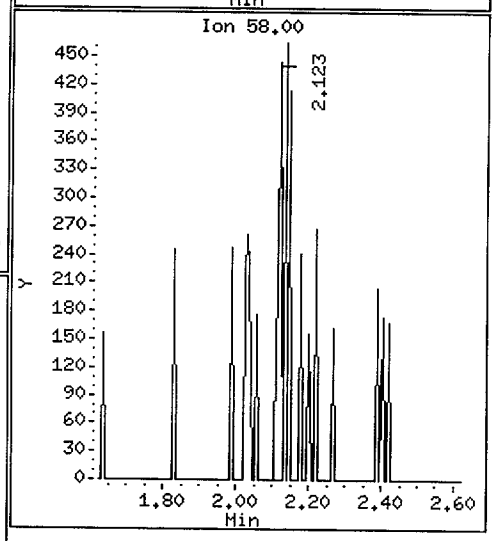
22 Acetone

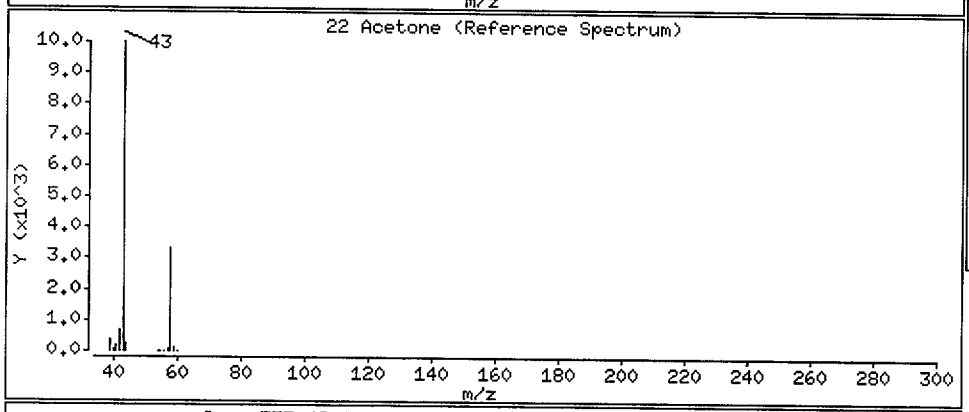
Concentration: 0.093672 ug

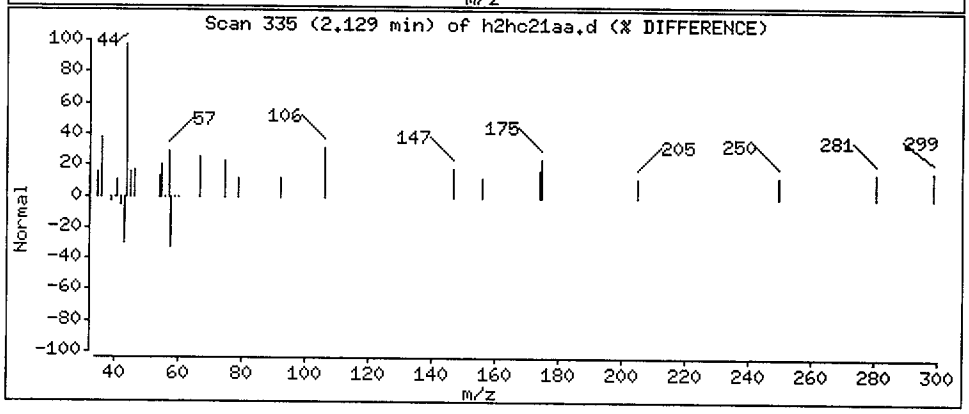












Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

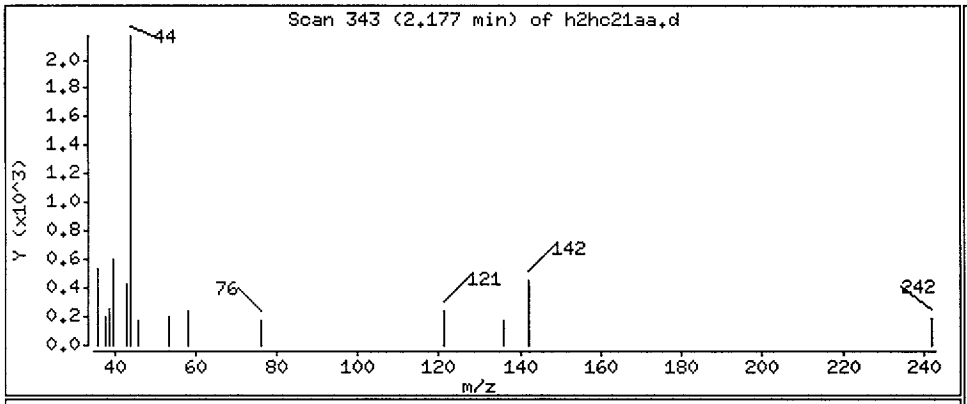
Operator: 22980

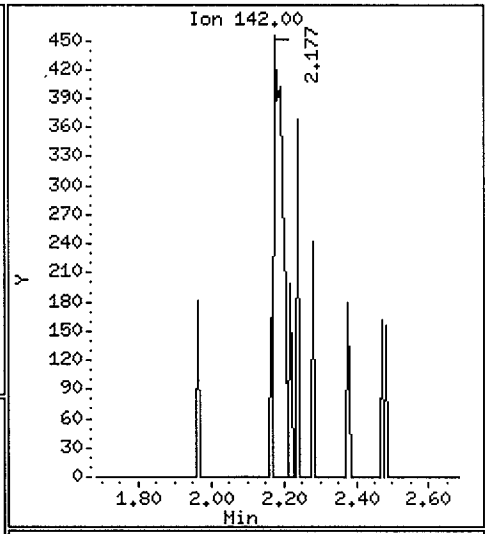
Column phase: J+W 624

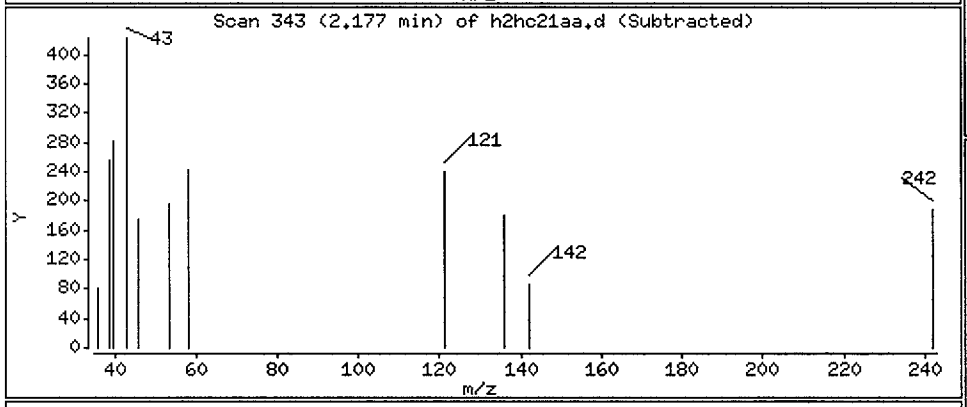
Column diameter: 0.18

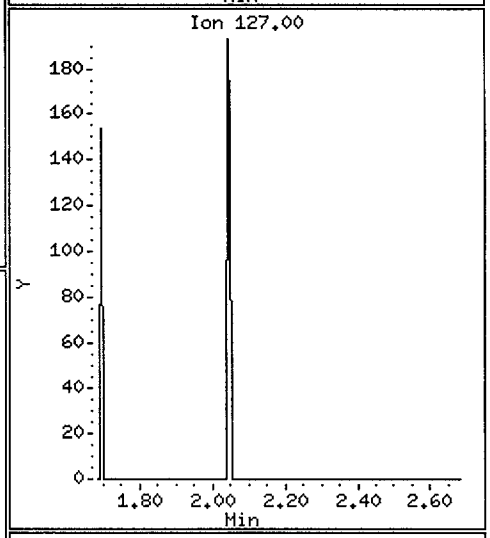
23 *Iodomethane

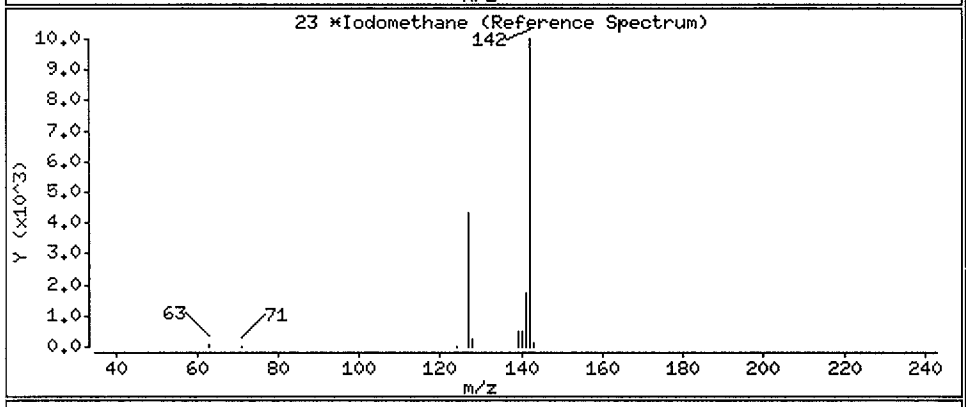
Concentration: 0.013930 ug

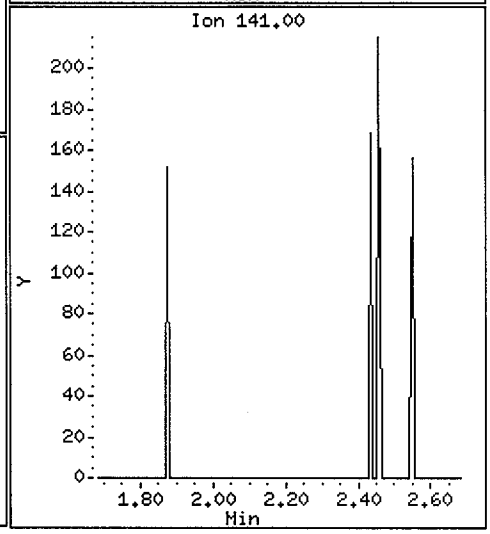


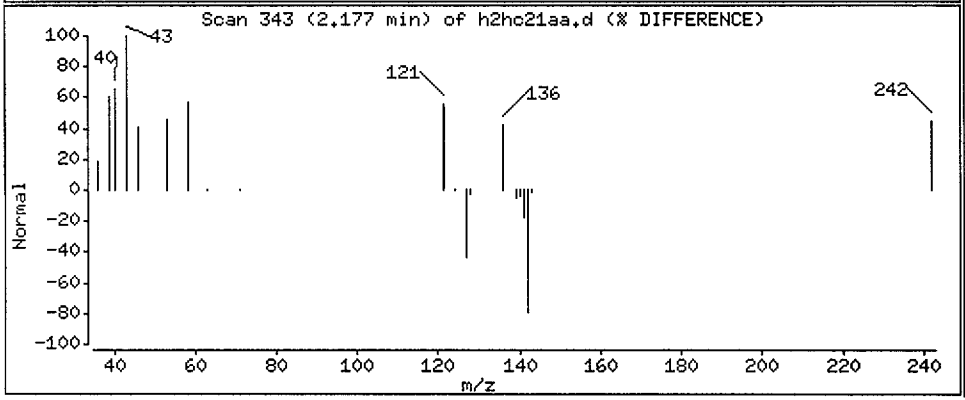












Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

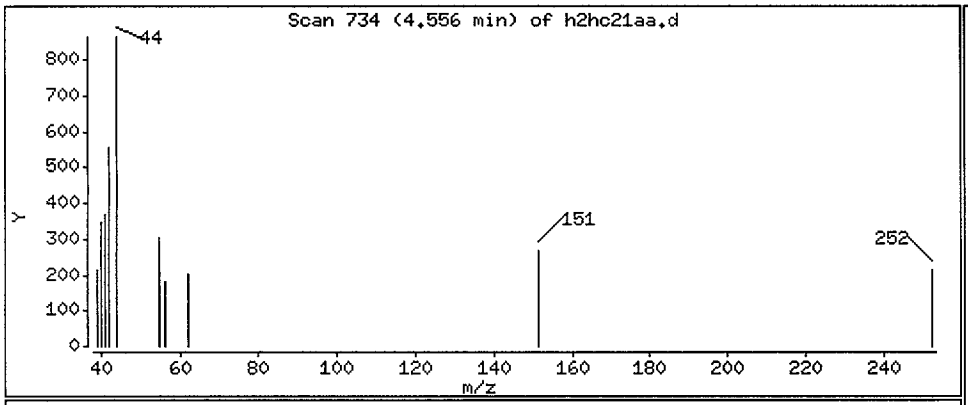
Operator: 22980

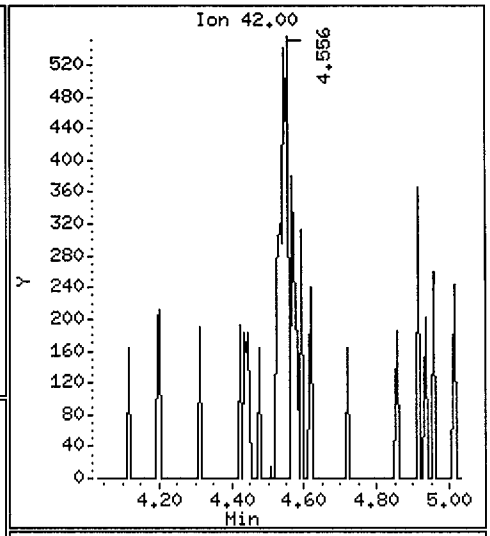
Column phase: J+W 624

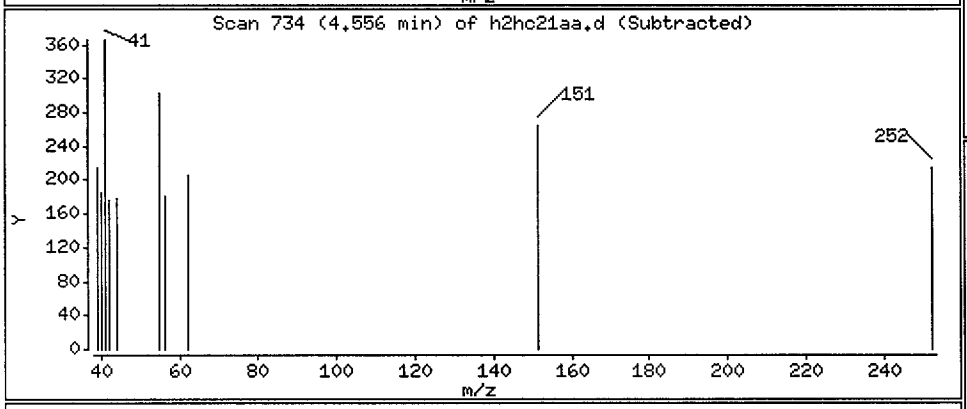
Column diameter: 0.18

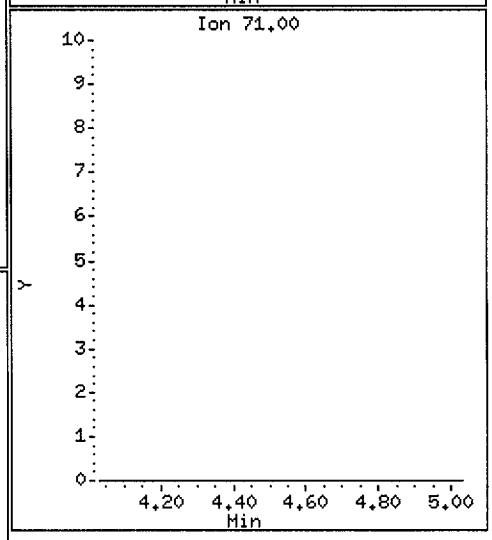
39 *THF

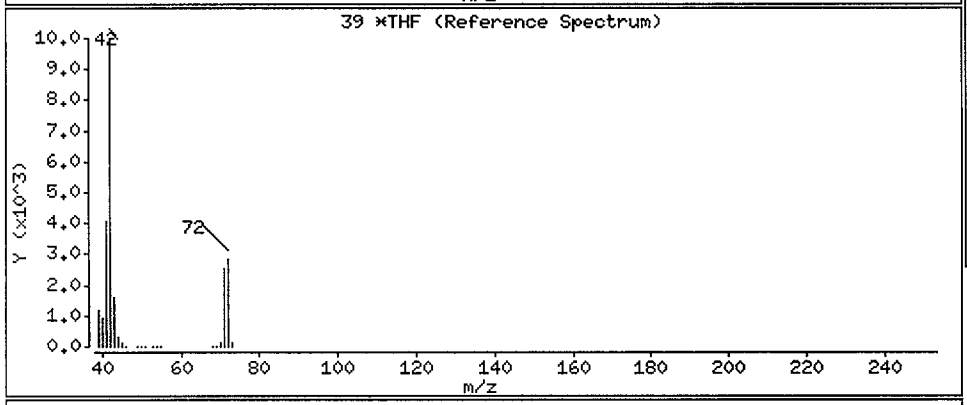
Concentration: 0.010752 ug

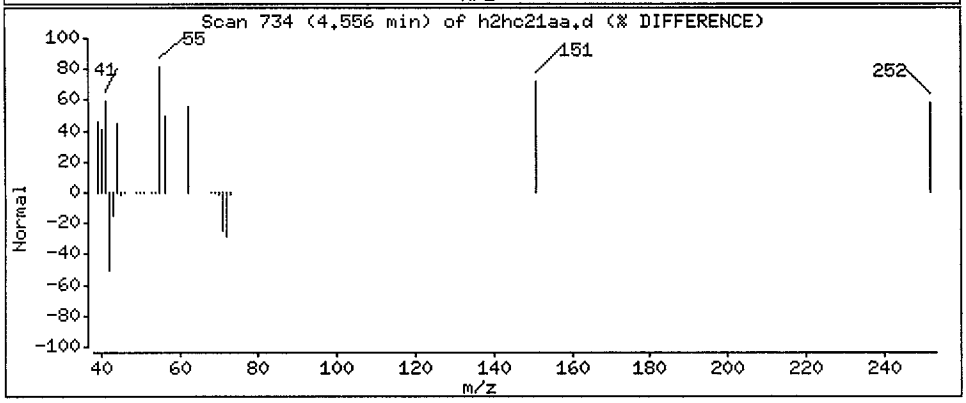












Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

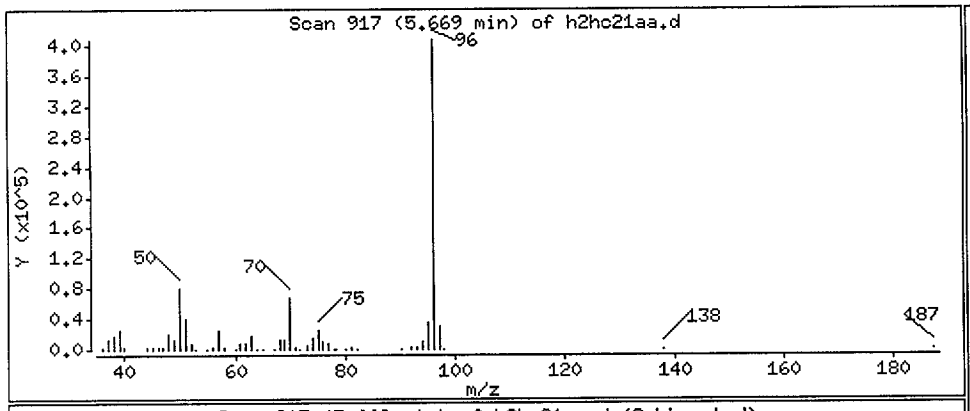
Operator: 22980

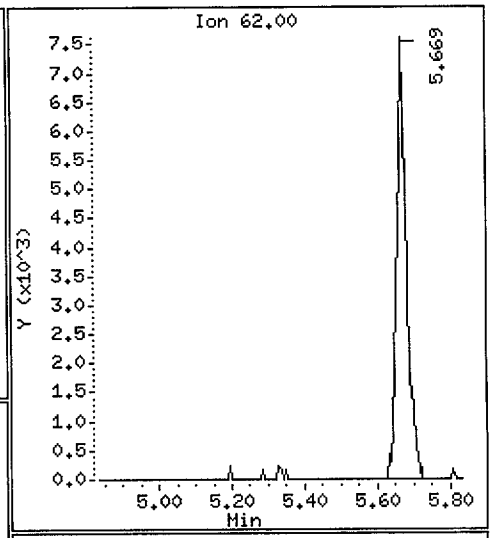
Column phase: J+W 624

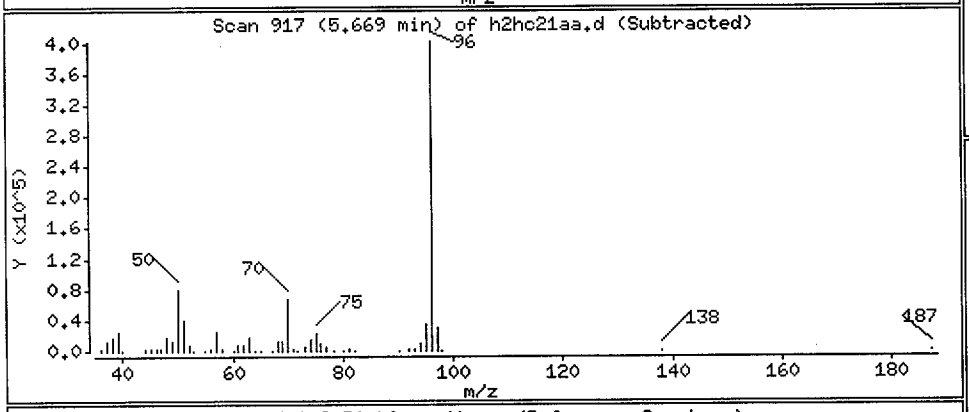
Column diameter: 0.18

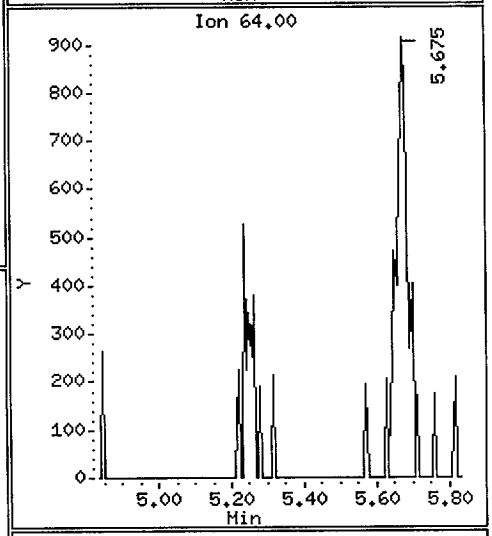
45 1,2-Dichloroethane

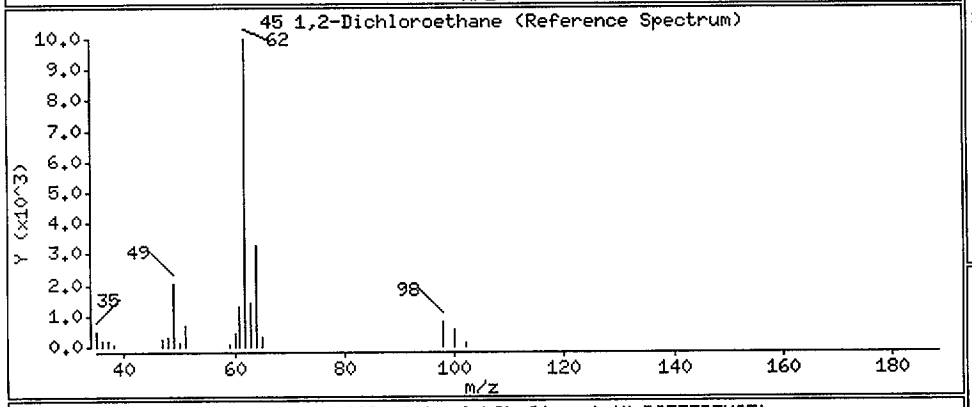
Concentration: 0.019981 ug

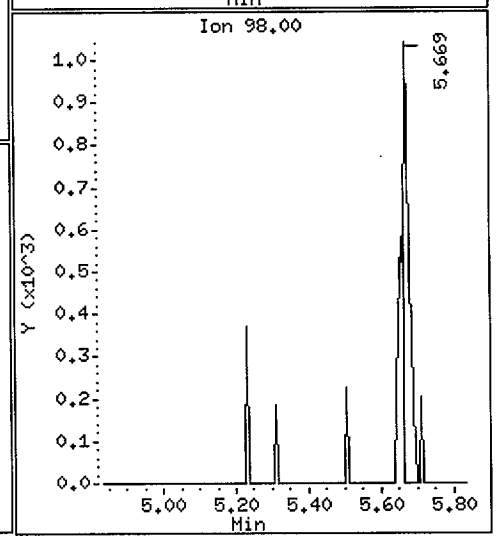


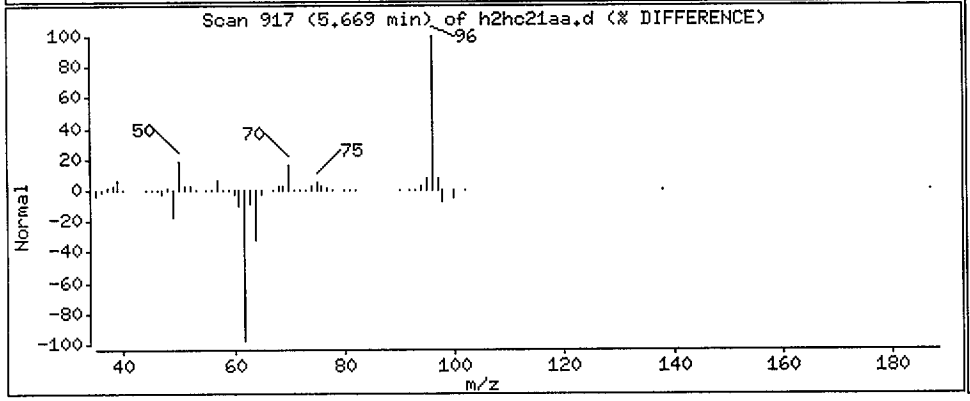












Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

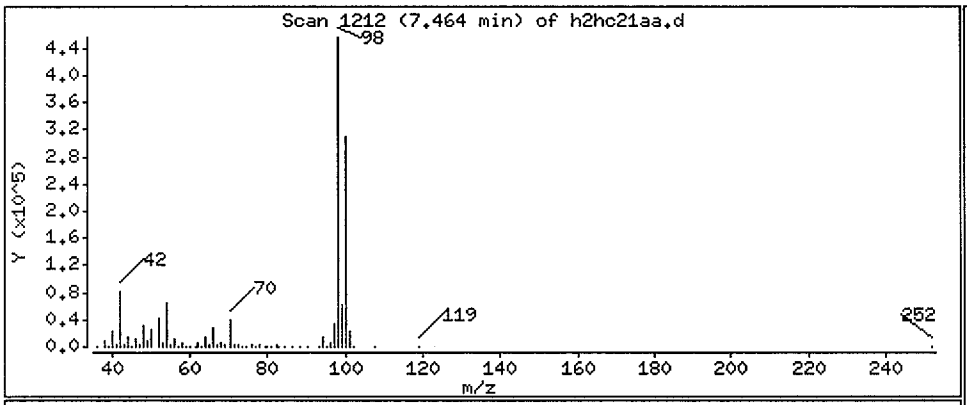
Operator: 22980

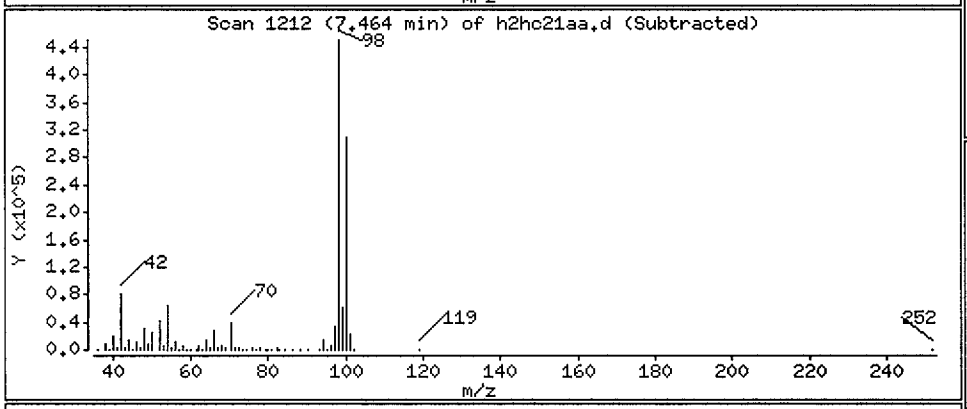
Column phase: J+W 624

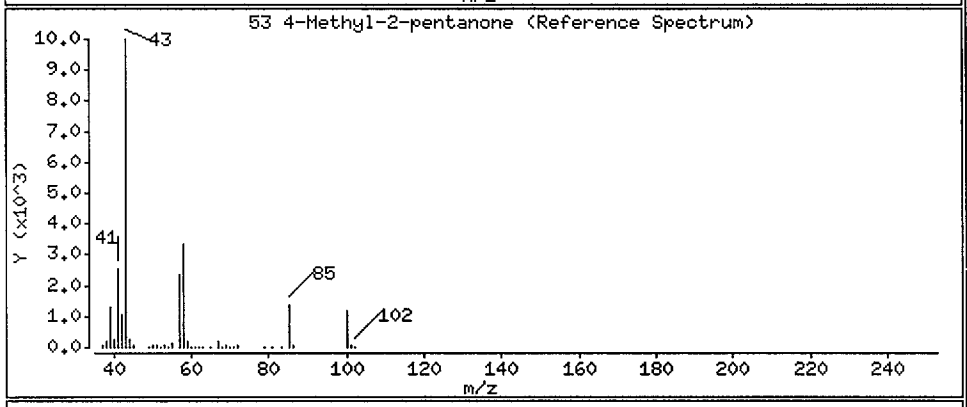
Column diameter: 0.18

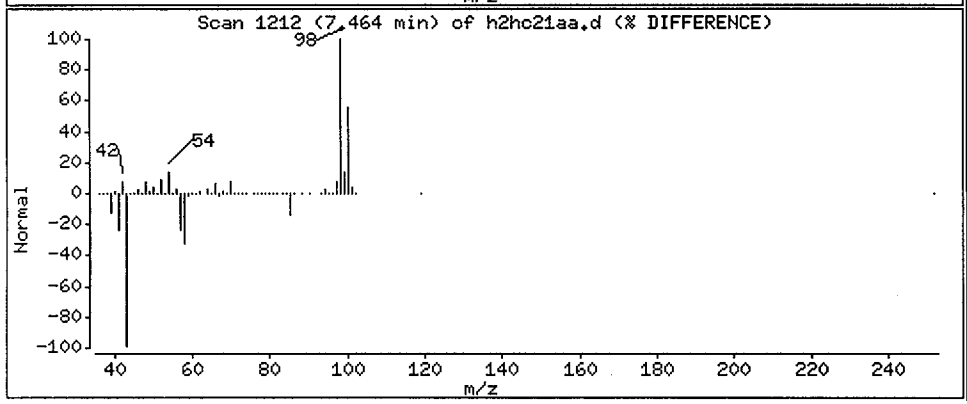
53 4-Methyl-2-pentanone

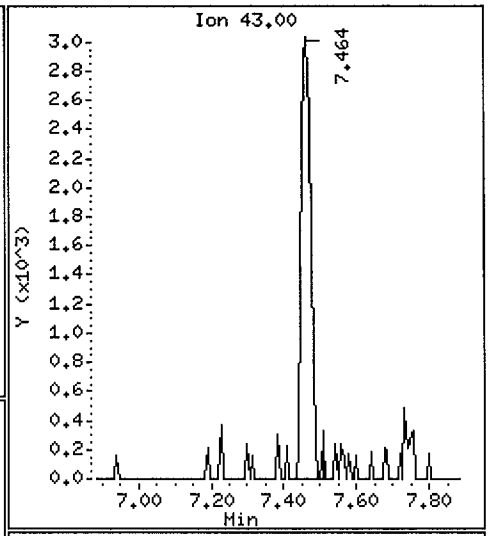
Concentration: 0.018188 ug

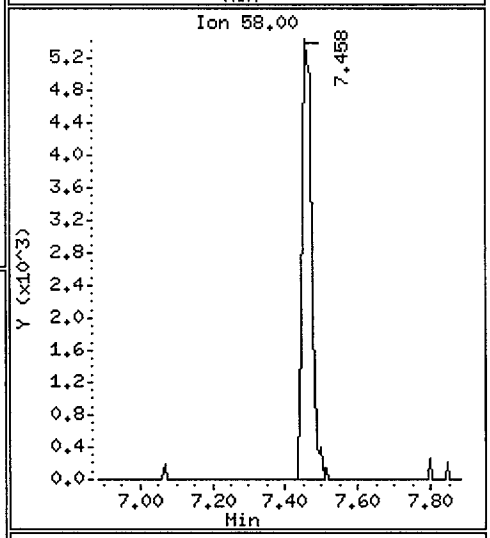


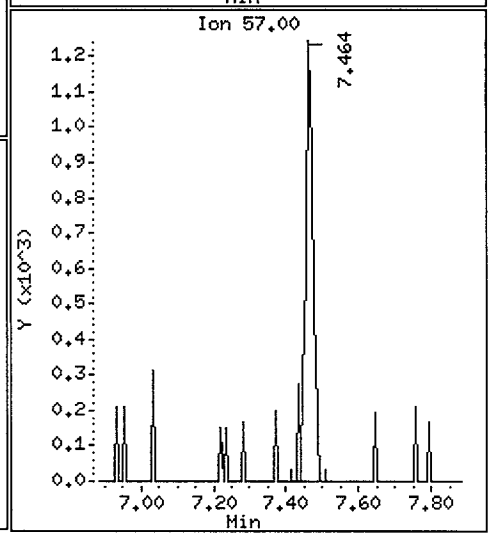












Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

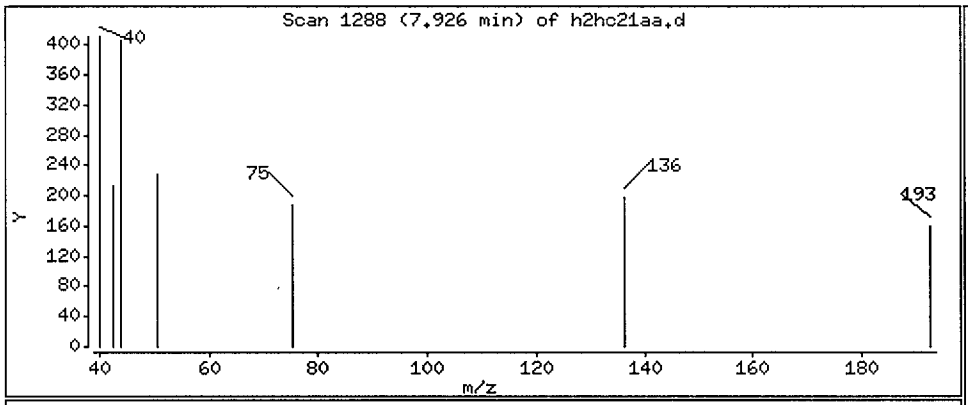
Operator: 22980

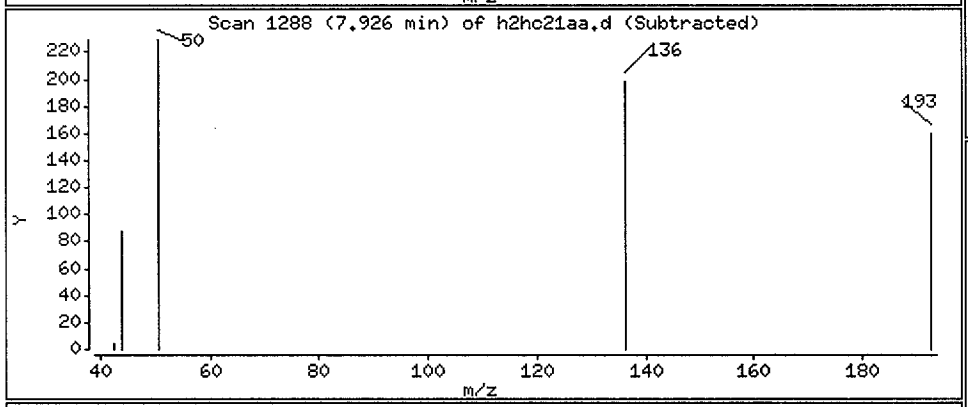
Column phase: J+W 624

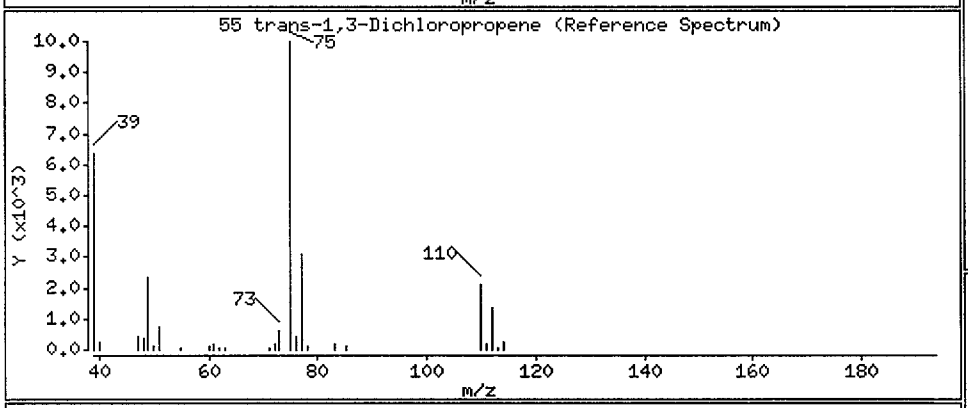
Column diameter: 0.18

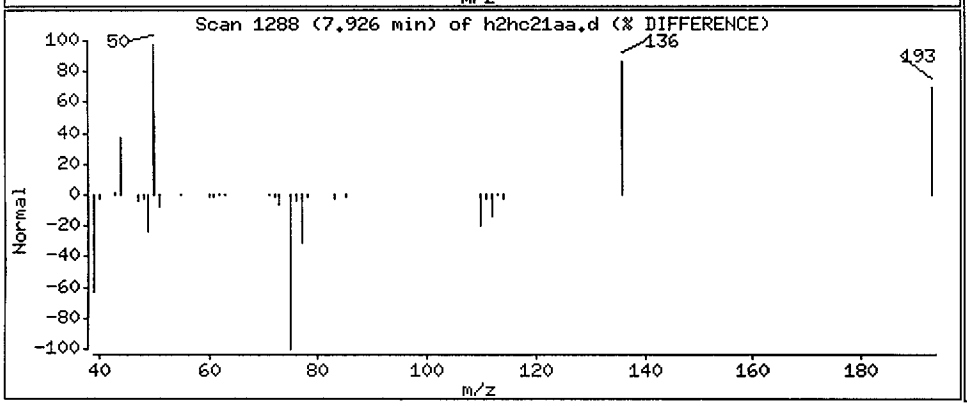
55 trans-1,3-Dichloropropene

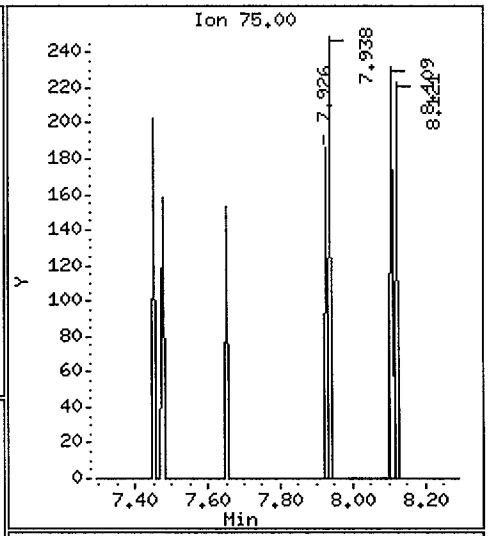
Concentration: 0.015736 ug

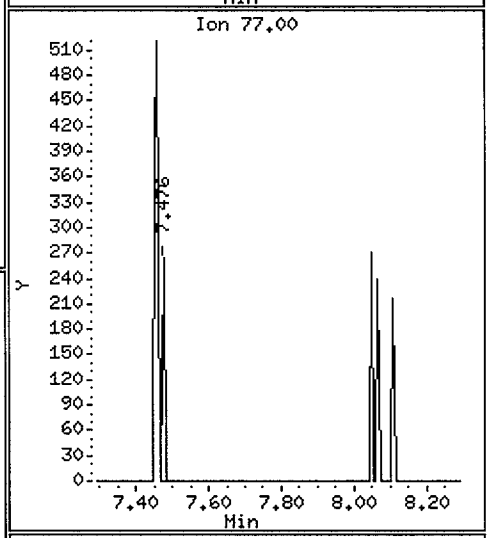


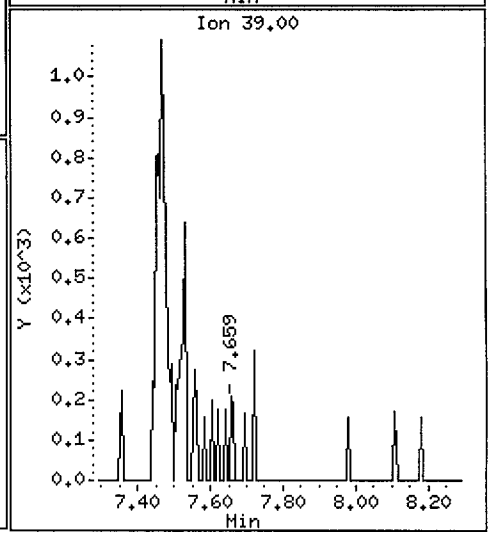












Data File: /chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC21AA,1,0,,

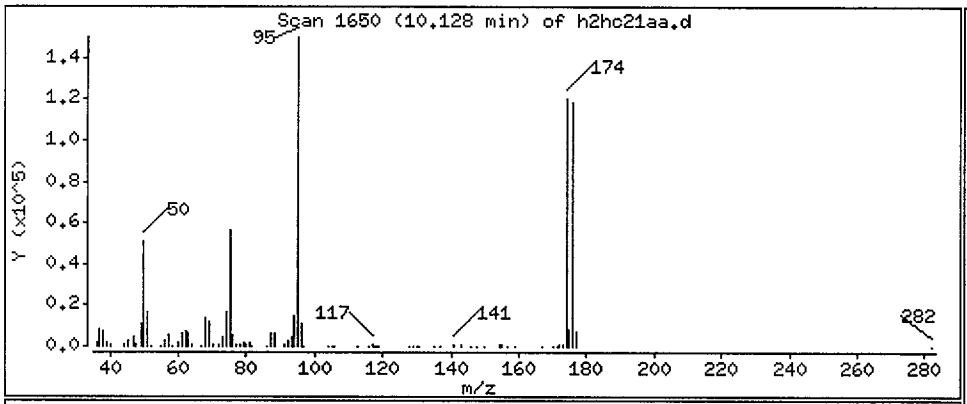
Operator: 22980

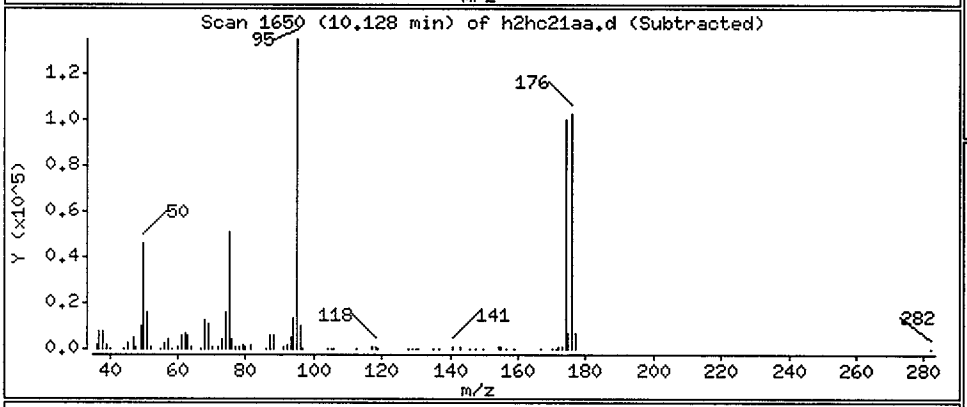
Column phase: J+W 624

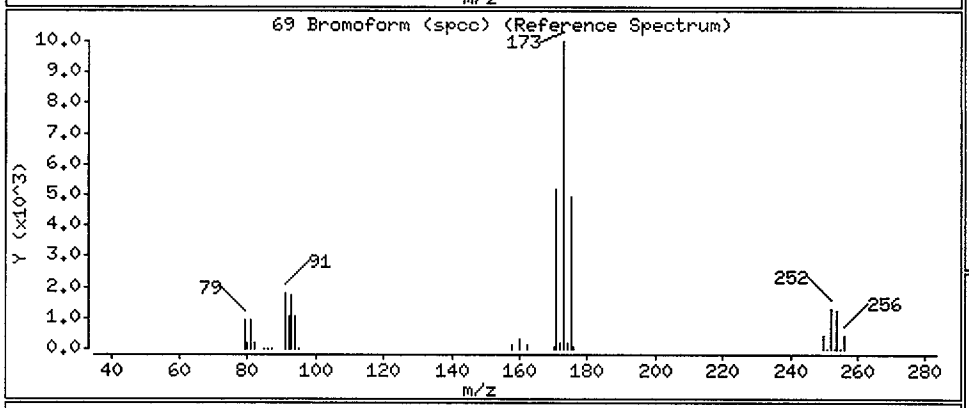
Column diameter: 0.18

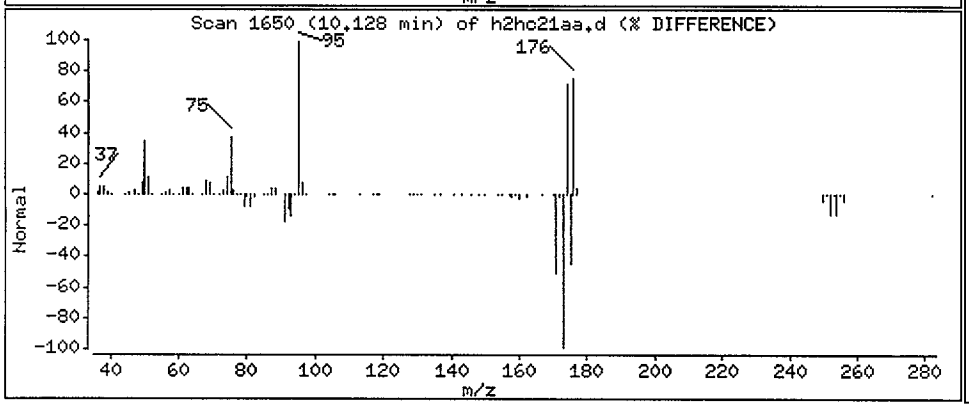
69 Bromoform (spcc)

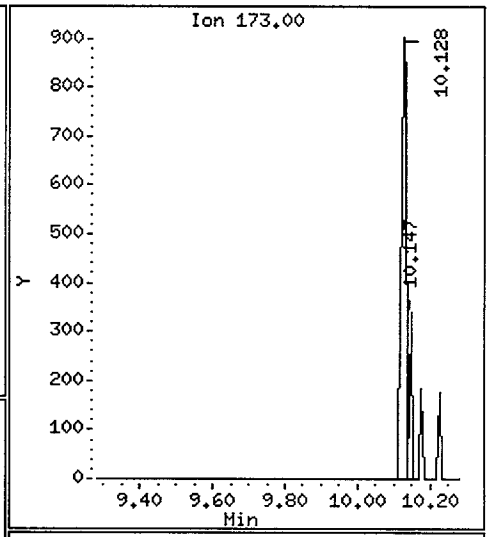
Concentration: 0.028461 ug

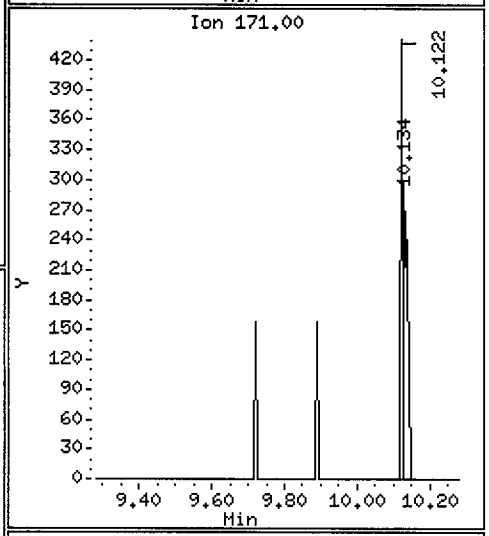


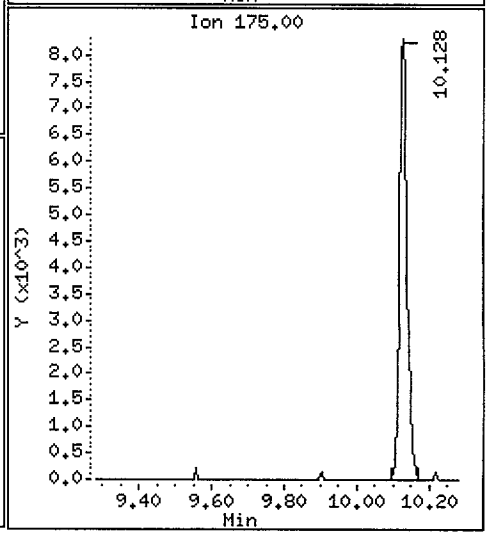












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Report Date: 14-Apr-2006 17:01

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hc21aa.d
Lab Smp Id: H2HC21AA Client Smp ID: A-5363 MEDIA CHECK
Inj Date : 07-APR-2006 11:10
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC21AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.675	948173	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.906	996657	10.5113413	0.26278	5	NIST05.1	80	1

CO2

JW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc21aa.d

Date : 07-APR-2006 11:10

Client ID: A-5363 MEDIA CHECK

Instrument: mz.i

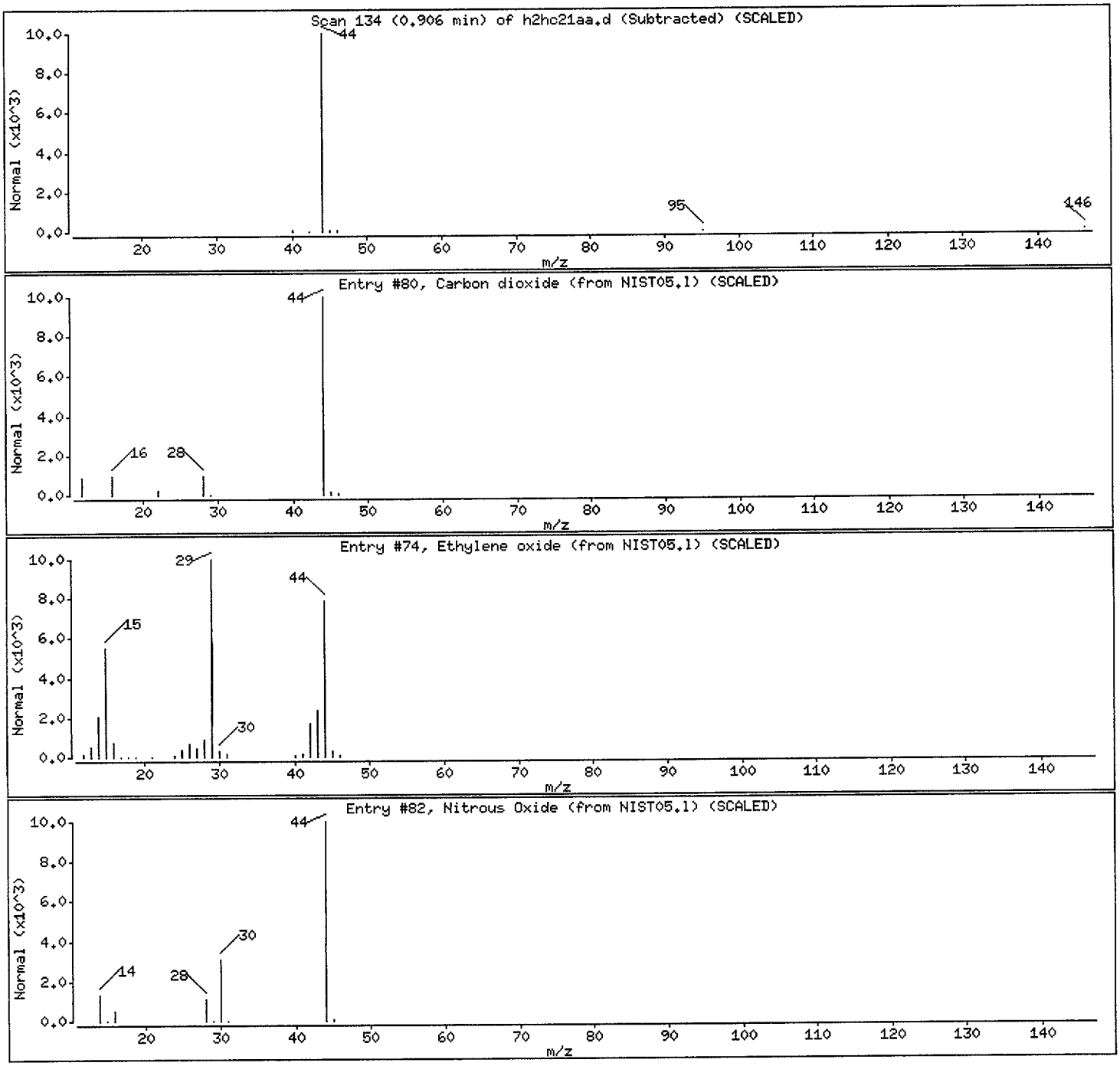
Sample Info: H2HC21AA,1,0,,

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44



STL Knoxville - ACS

Client Sample ID: A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-038 **Work Order #...:** H2HC41AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.029 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.011**	**0.010**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-038 **Work Order #...:** H2HC41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-038 **Work Order #:** H2HC41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Report Date: 07-Apr-2006 11:05

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Lab Smp Id: H2HC41AA Client Smp ID: A-5364 MEDIA CHECK
Inj Date : 07-APR-2006 10:47
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC41AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

04>106

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.674	5.676	(1.000)	874983	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	187631	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	245860	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	147252	10.5027	0.26257
$ 5 1,2-Dichloroethane-d4	65	5.236	5.238	(0.923)	119590	9.86387	0.24660
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	748252	9.07612	0.22690
$ 7 4-Bromofluorobenzene	95	10.127	10.129	(0.881)	205517	8.28862	0.20722
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	49585	0.43627	0.010907
15 Bromomethane	94	1.428	1.418	(0.252)	3071	1.16337	0.029084
22 Acetone	43	2.115	2.123	(0.373)	1845	3.59710	0.089927 - See reprint (M)
23 *Iodomethane	142	2.170	2.184	(0.382)	817	0.55809	0.013952
39 *THF	42	4.537	4.532	(0.800)	1247	0.60111	0.015028
45 1,2-Dichloroethane	62	5.668	5.335	(0.999)	13870	0.75913	0.~~018978~~
53 4-Methyl-2-pentanone	43	7.457	7.386	(1.314)	6390	0.83634	0.~~020908~~
55 trans-1,3-Dichloropropene	75	8.101	7.793	(0.907)	71	0.62948	0.~~015737~~
69 Bromoform (spcc)	173	10.115	9.782	(1.132)	90	0.83149	0.~~020787~~

JWH 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Report Date: 14-Apr-2006 16:54

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Lab Smp Id: H2HC41AA Client Smp ID: A-5364 MEDIA CHECK
Inj Date : 07-APR-2006 10:47
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC41AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.674	5.676	(1.000)	874983	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.937	(1.000)	187631	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.492	(1.000)	245860	10.0000	
$ 4 Dibromofluoromethane	113	4.829	4.831	(0.851)	147252	10.5027	0.26257
$ 5 1,2-Dichloroethane-d4	65	5.236	5.238	(0.923)	119590	9.86384	0.24660
$ 6 Toluene-d8	98	7.463	7.465	(0.835)	748252	9.07613	0.22690
$ 7 4-Bromofluorobenzene	95	10.127	10.129	(0.881)	205517	8.28863	0.20722
11 Chloromethane (spcc)	50	1.124	1.126	(0.198)	49585	0.43626	0.010906
15 Bromomethane	94	1.428	1.418	(0.252)	3071	1.16328	0.029082
22 Acetone	43	2.140	2.123	(0.377)	2672	3.75476	0.093869(M)
23 *Iodomethane	142	2.170	2.184	(0.382)	817	0.55805	0.013951
39 *THF	42	4.537	4.532	(0.800)	1247	0.60066	0.015016

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Report Date: 14-Apr-2006 16:54

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Report Date: 07-Apr-2006 11:05

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hc41aa.d
Lab Smp Id: H2HC41AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: A-5364 MEDIA CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	874983	-8.15
2 Chlorobenzene-d5	164101	82050	328202	187631	14.34
3 1,4 Dichlorobenze	204390	102195	408780	245860	20.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.03
2 Chlorobenzene-d5	8.94	8.44	9.44	8.93	-0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.02

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Report Date: 07-Apr-2006 11:05

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2HC41AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: A-5364 MEDIA CHECK
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.26257	105.03	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24660	98.64	50-150
$ 6 Toluene-d8	0.25000	0.22690	90.76	50-150
$ 7 4-Bromofluorobenze	0.25000	0.20722	82.89	50-150

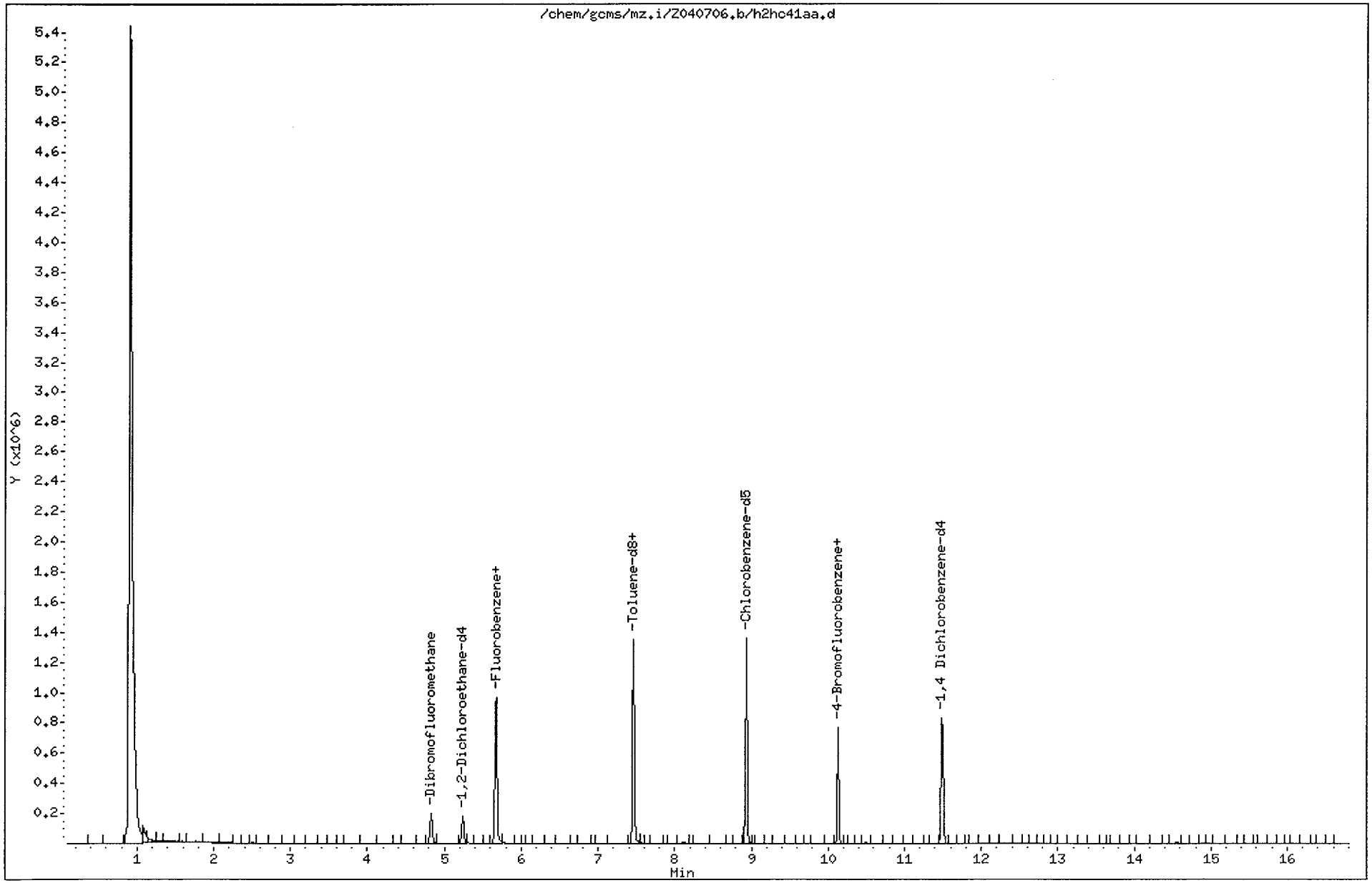
Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Date : 07-APR-2006 10:47
Client ID: A-5364 MEDIA CHECK
Sample Info: H2HC41AA,1,0,,

Instrument: mz.i

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

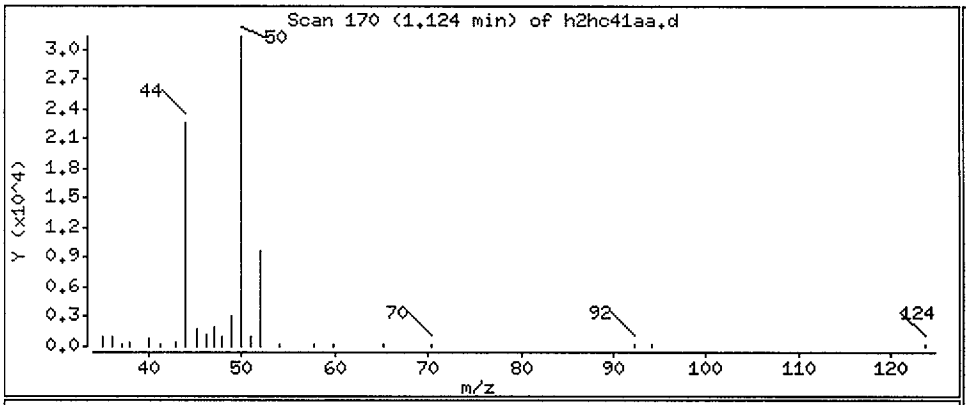
Operator: 22980

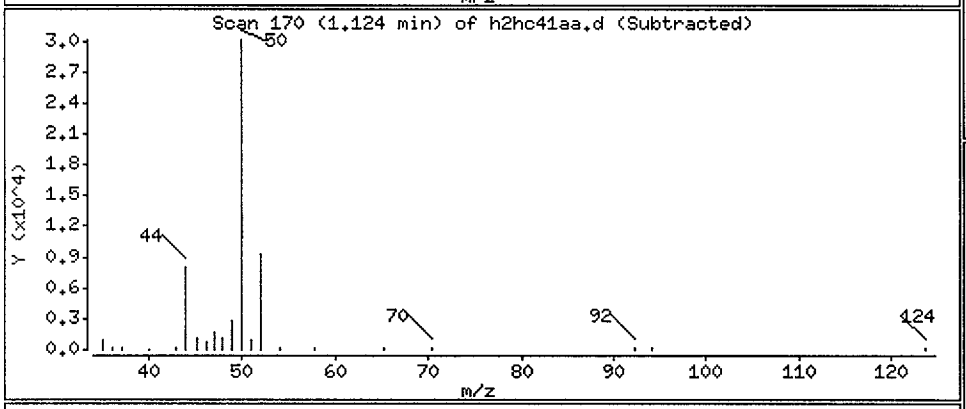
Column phase: J+W 624

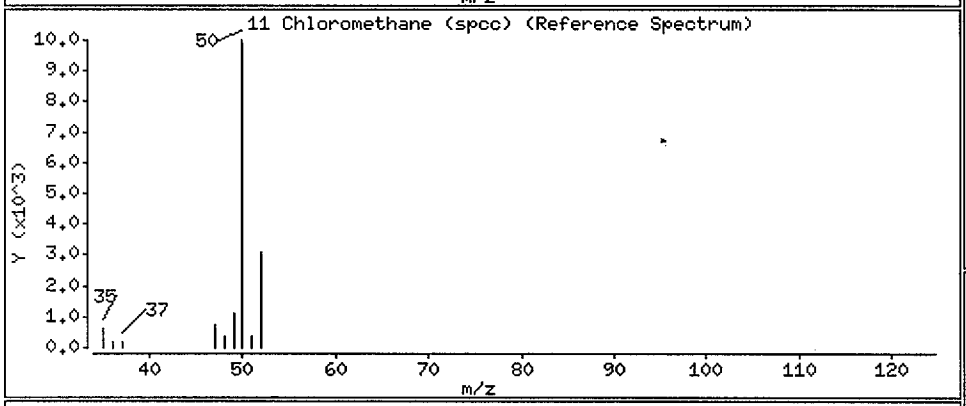
Column diameter: 0.18

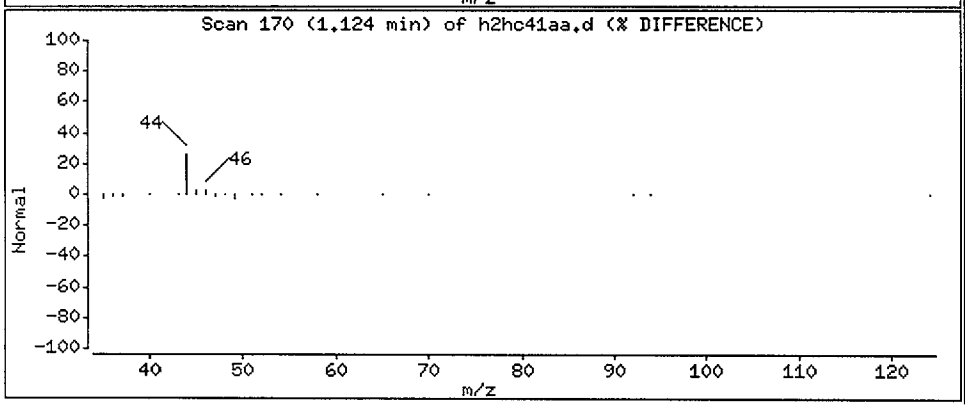
11 Chloromethane (spcc)

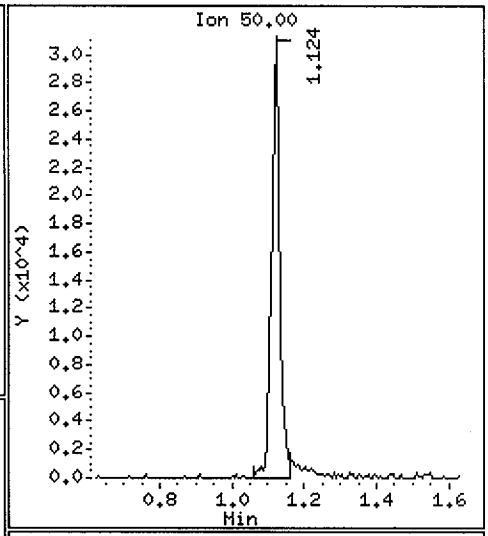
Concentration: 0.010907 ug

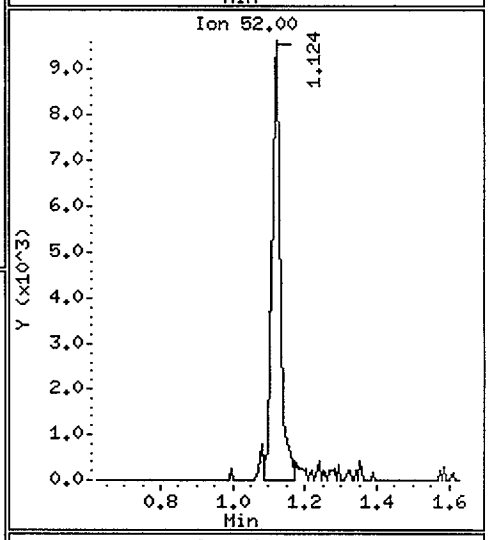


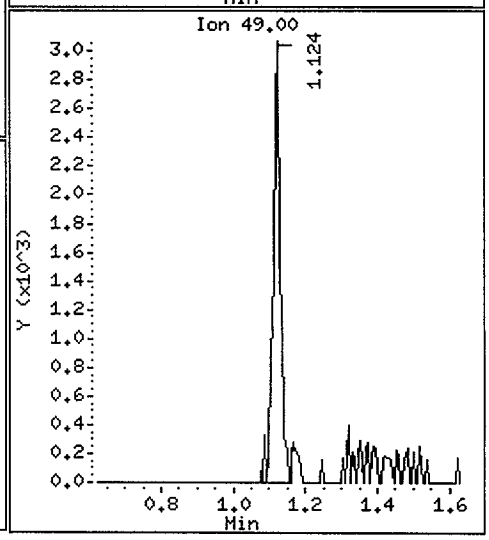












Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

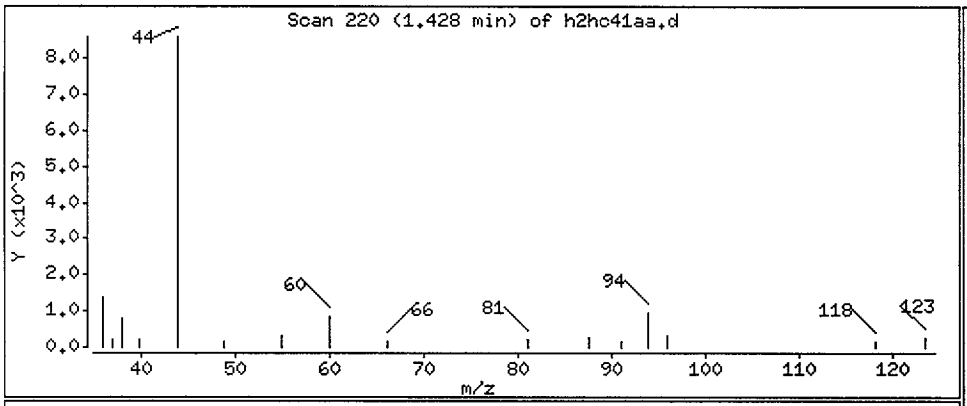
Operator: 22980

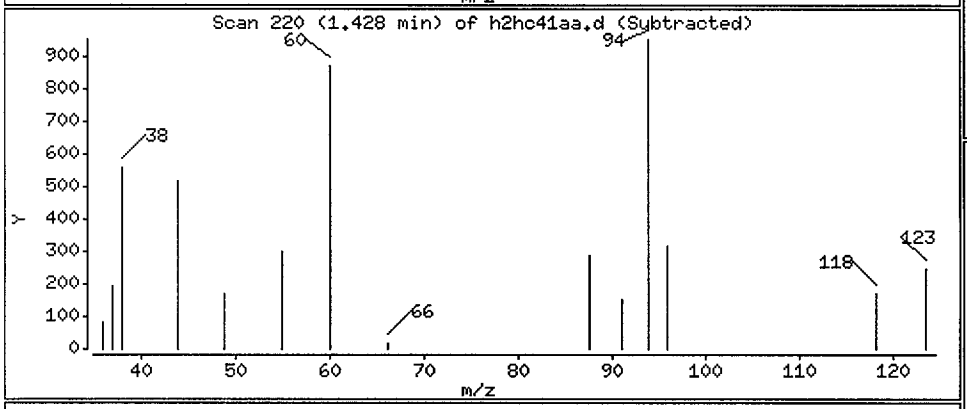
Column phase: J+W 624

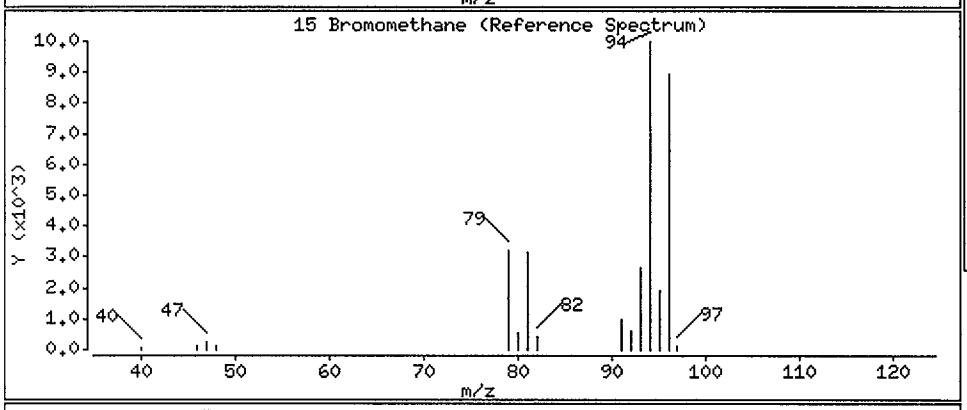
Column diameter: 0.18

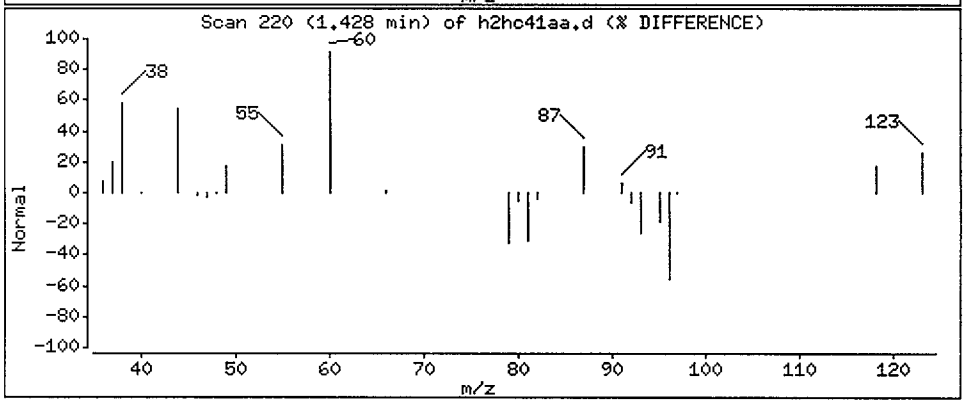
15 Bromomethane

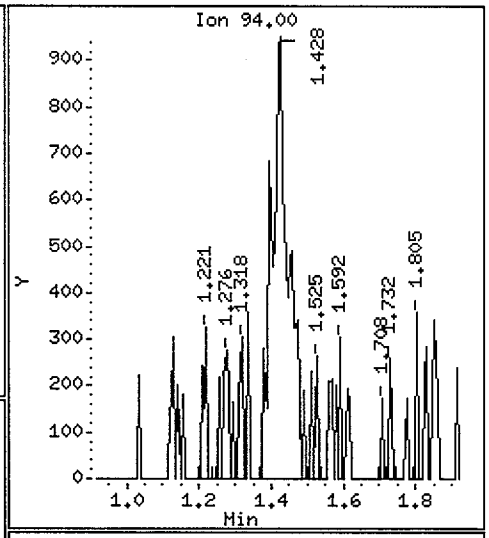
Concentration: 0.029084 ug

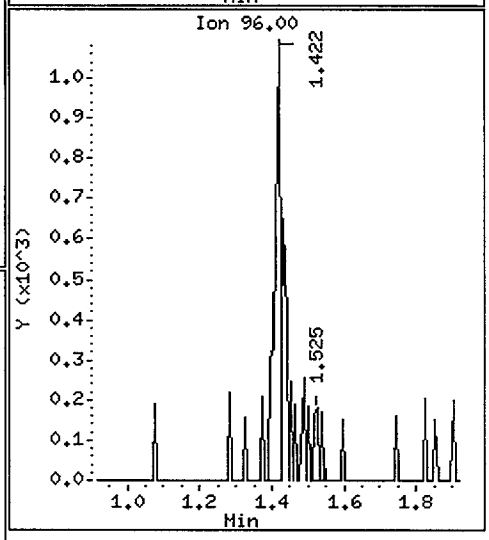












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Sample Info: H2HC41AA,1,0,,

Instrument: mz.i

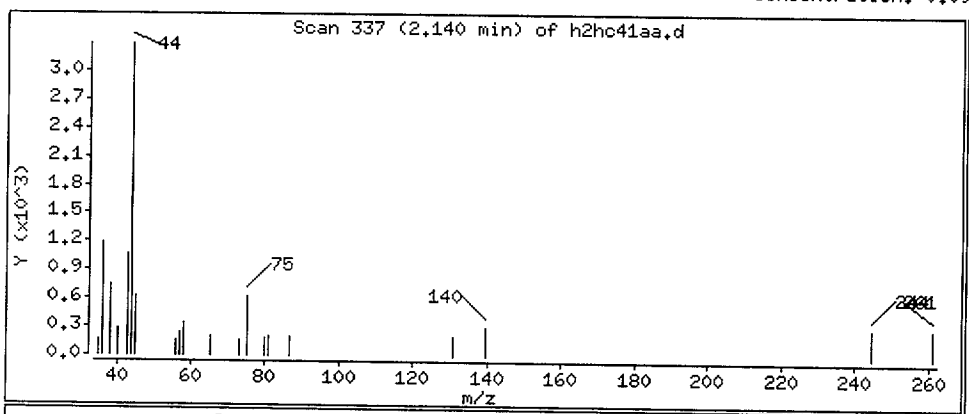
Operator: 22980

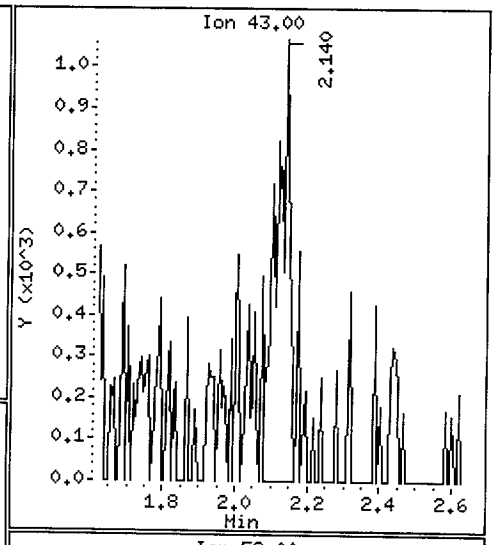
Column phase: J+W 624

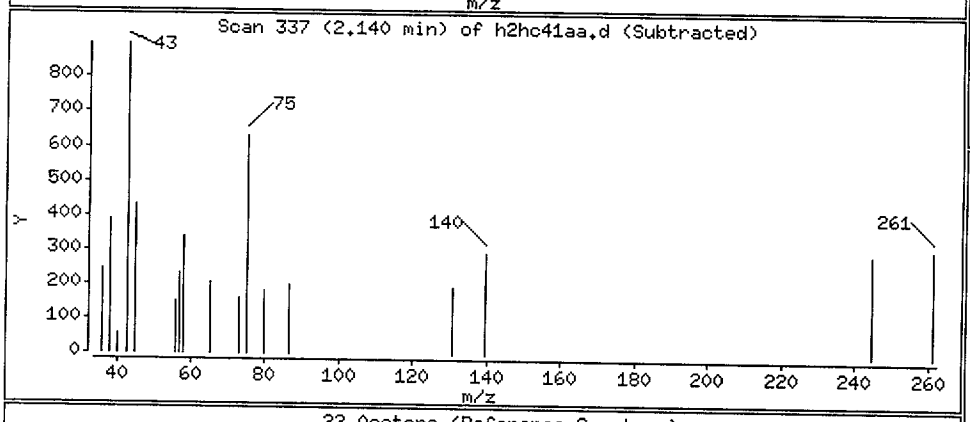
Column diameter: 0.18

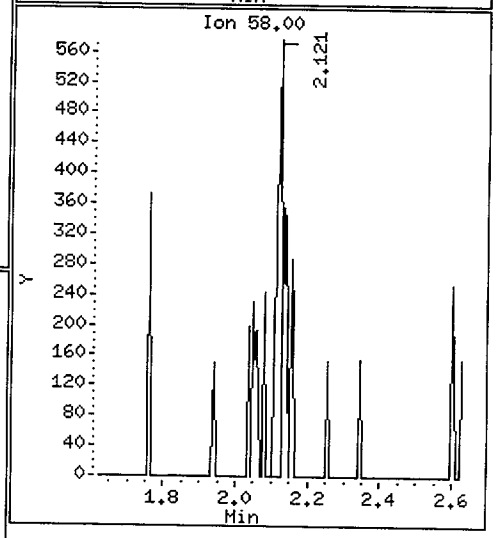
22 Acetone

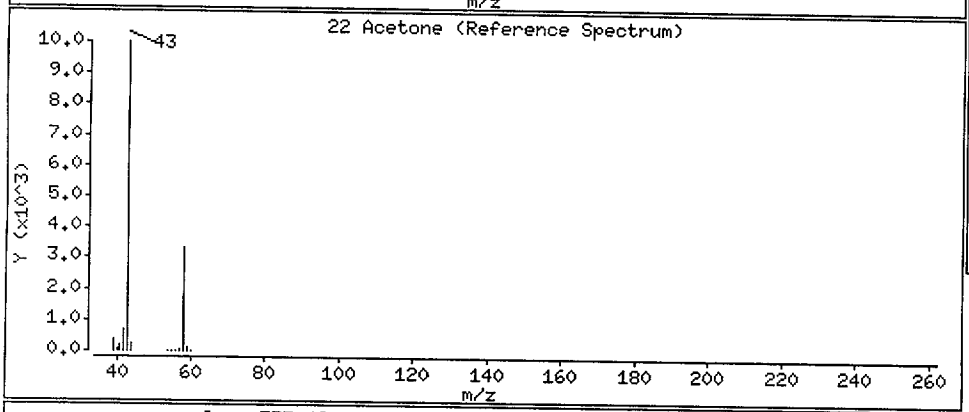
Concentration: 0.093869 ug

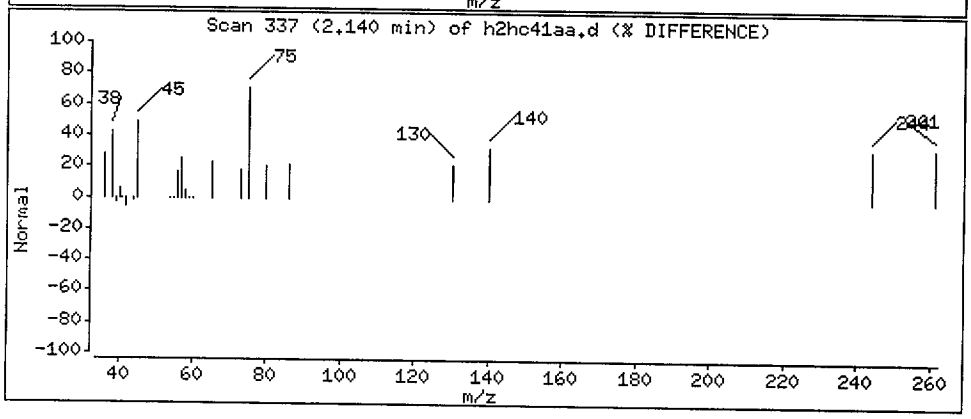












Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

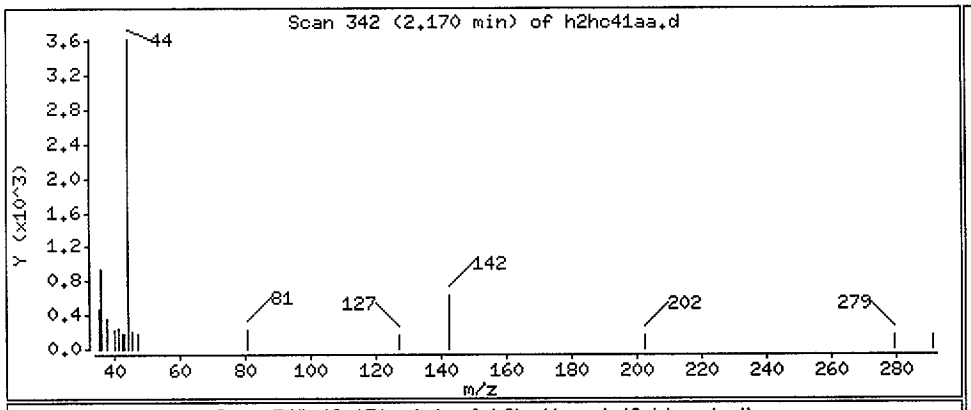
Operator: 22980

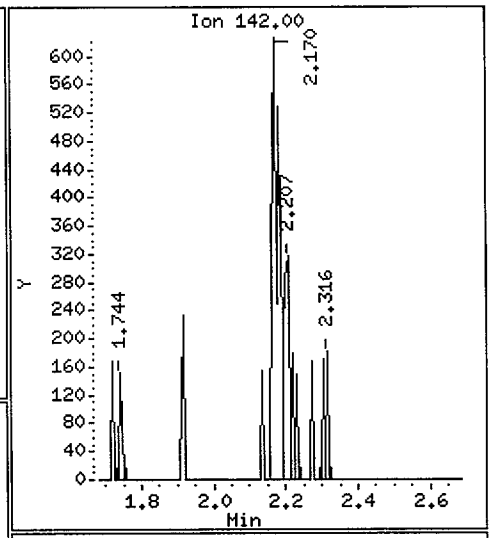
Column phase: J+W 624

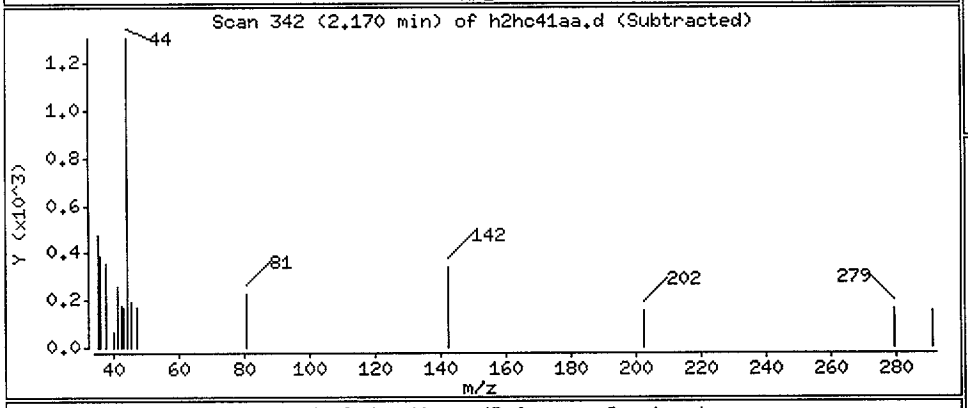
Column diameter: 0.18

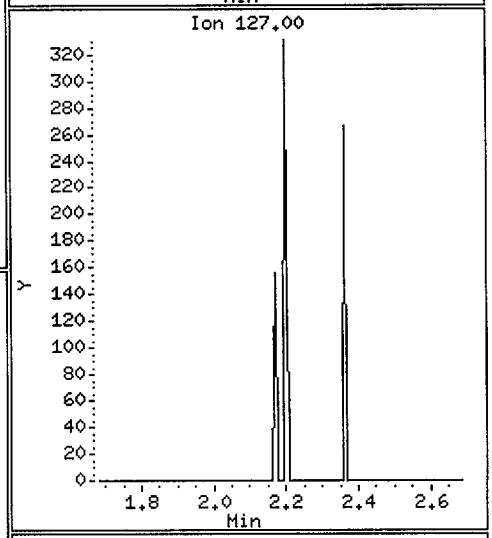
23 *Iodomethane

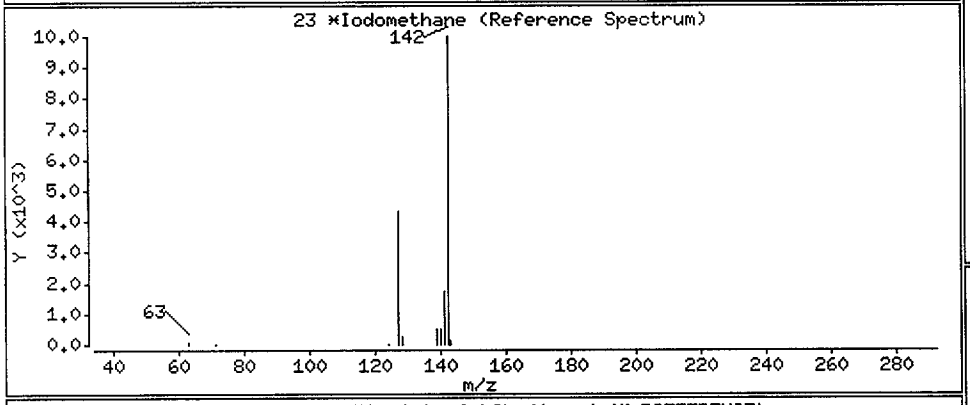
Concentration: 0.013952 ug

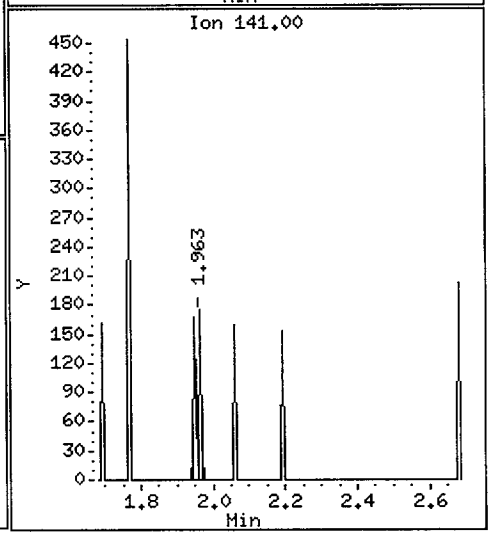


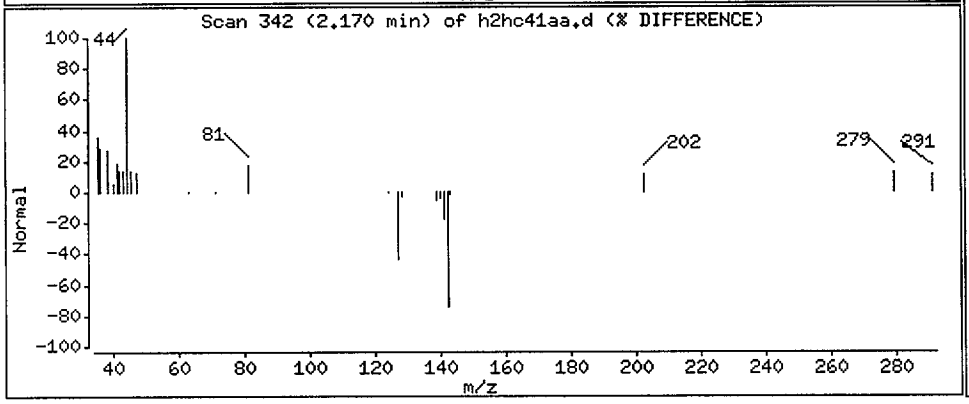












Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

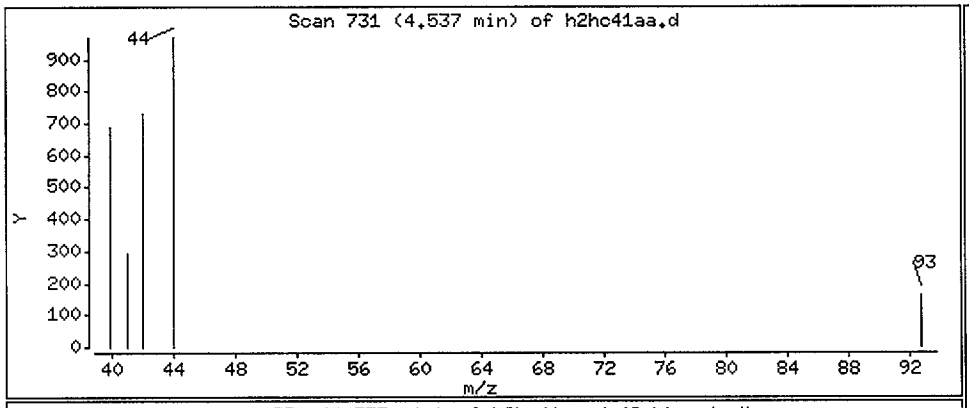
Operator: 22980

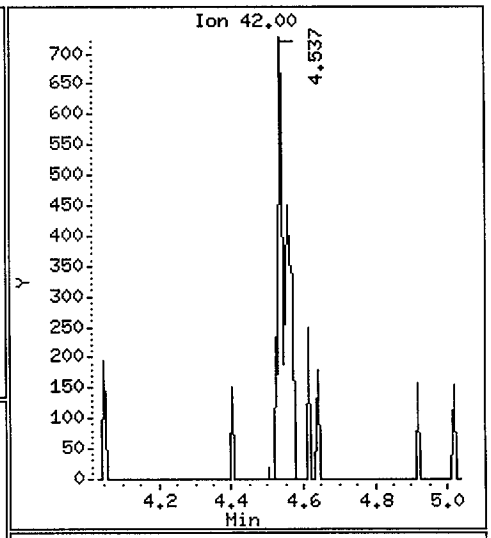
Column phase: J+W 624

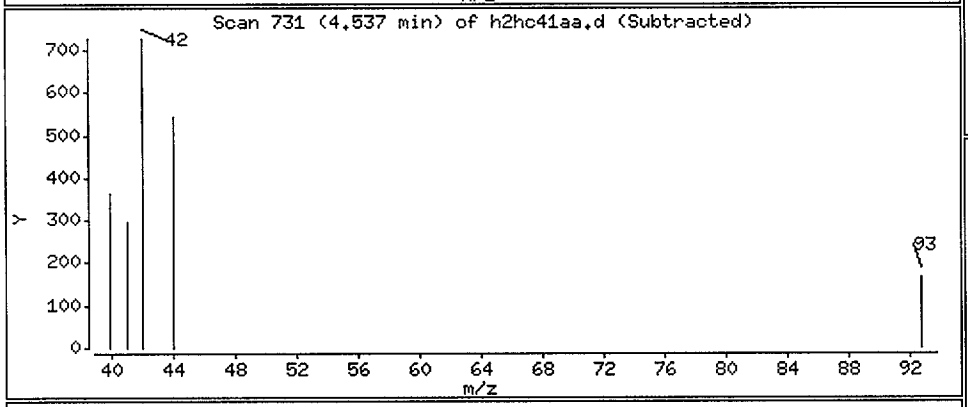
Column diameter: 0.18

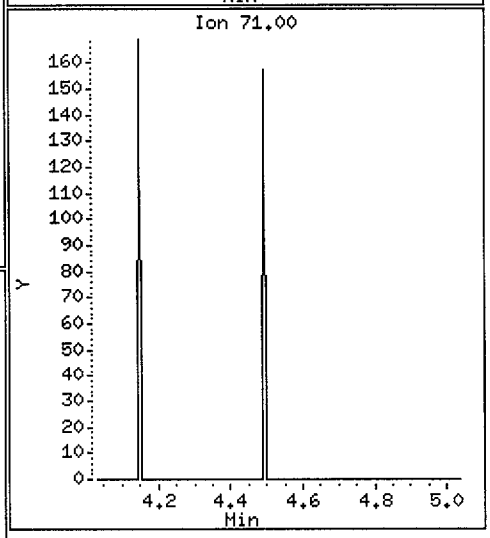
39 *THF

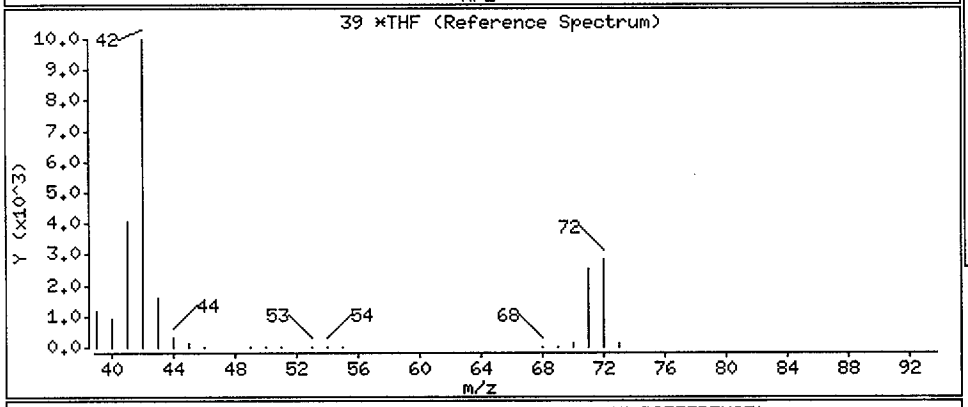
Concentration: 0.015028 ug

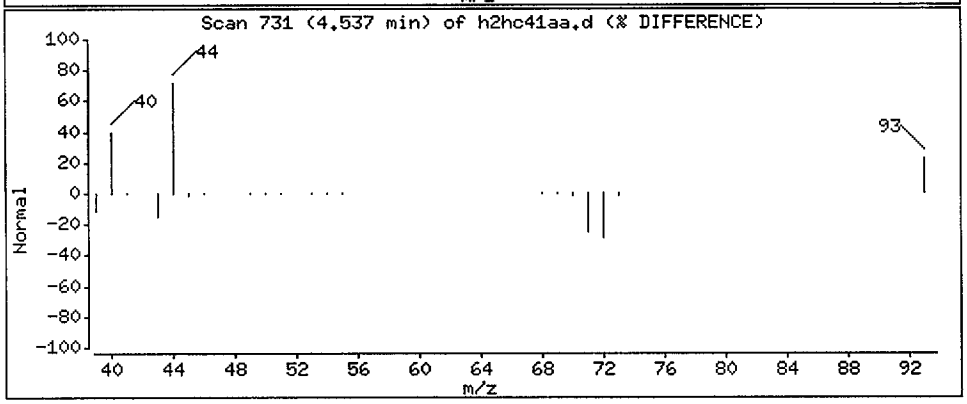












Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

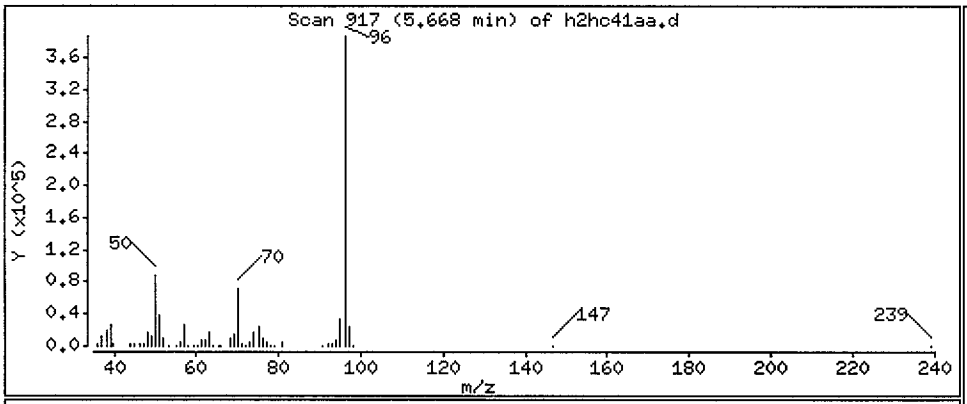
Operator: 22980

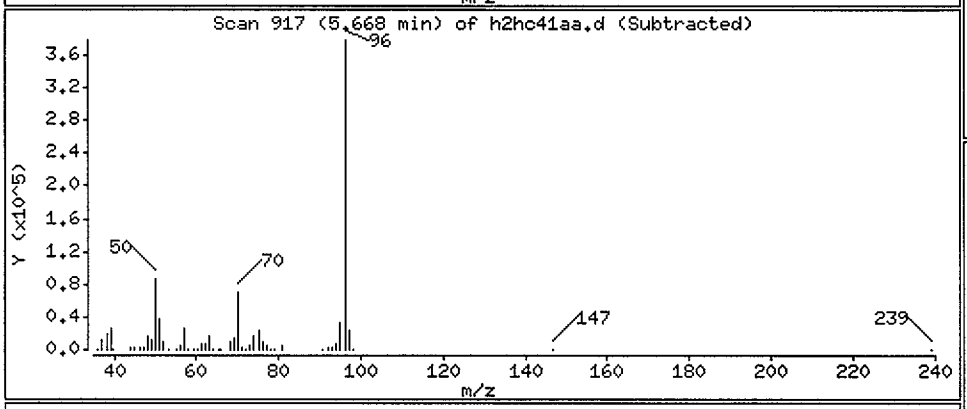
Column phase: J+W 624

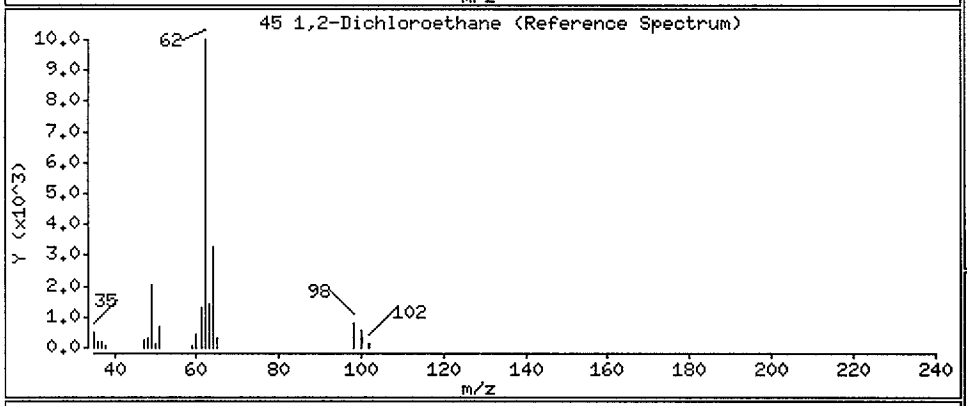
Column diameter: 0.18

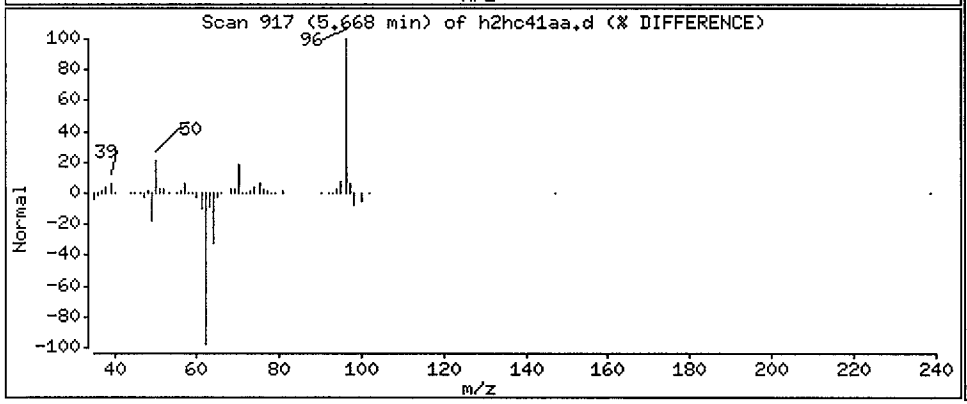
45 1,2-Dichloroethane

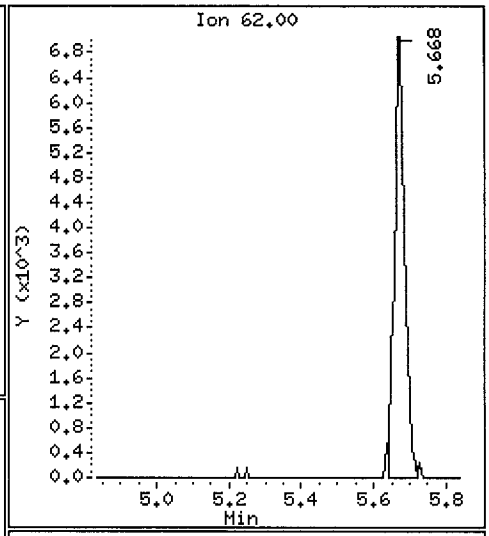
Concentration: 0.018978 ug

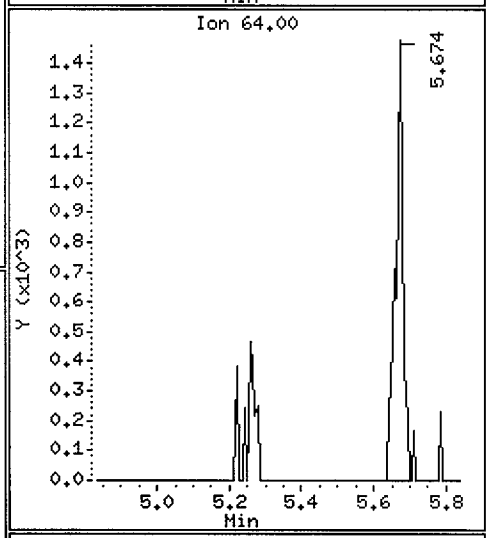


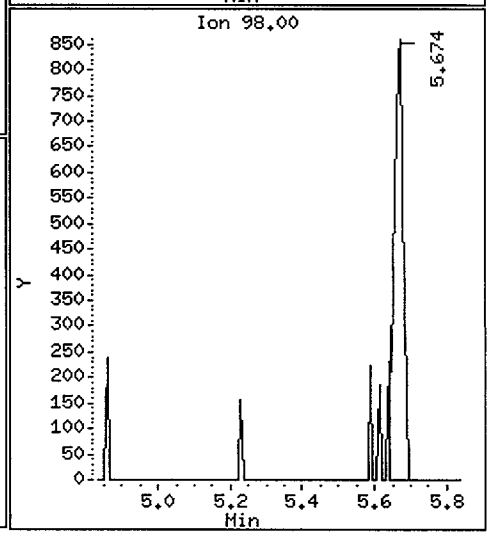












Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

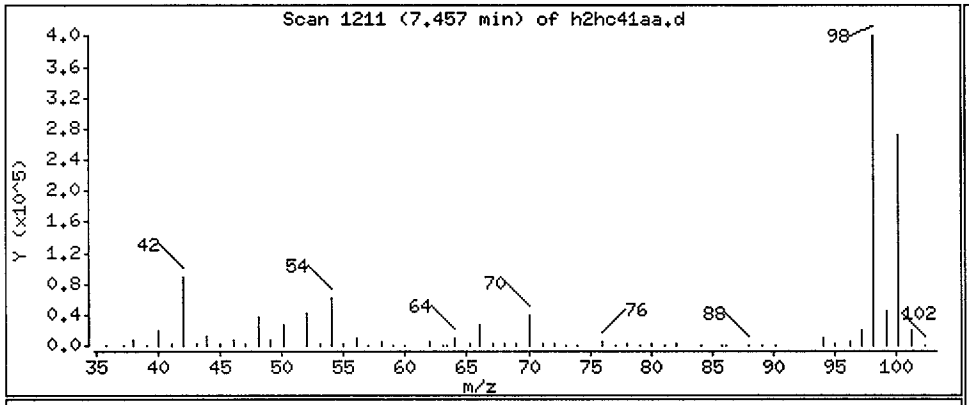
Operator: 22980

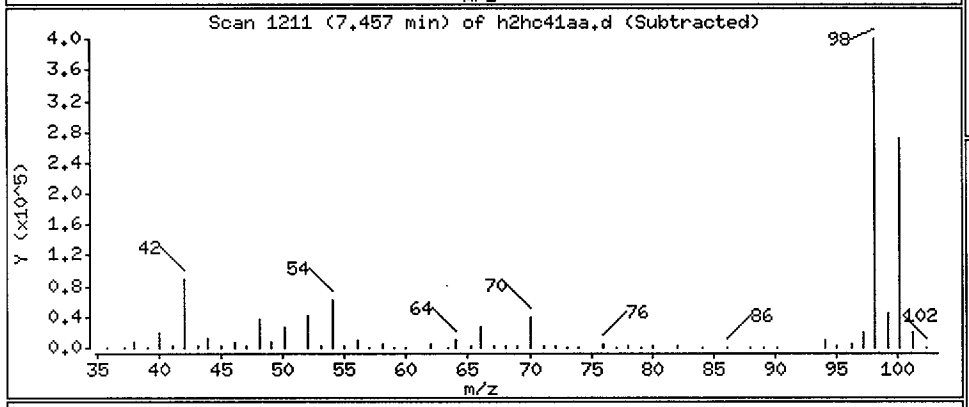
Column phase: J+W 624

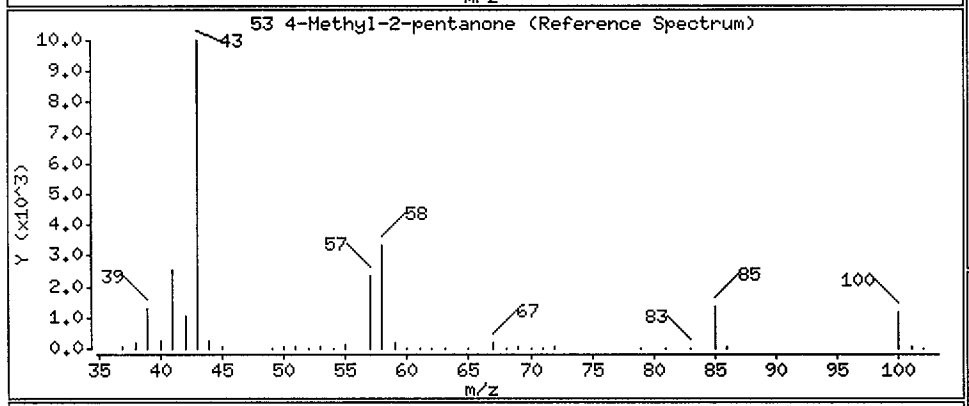
Column diameter: 0.18

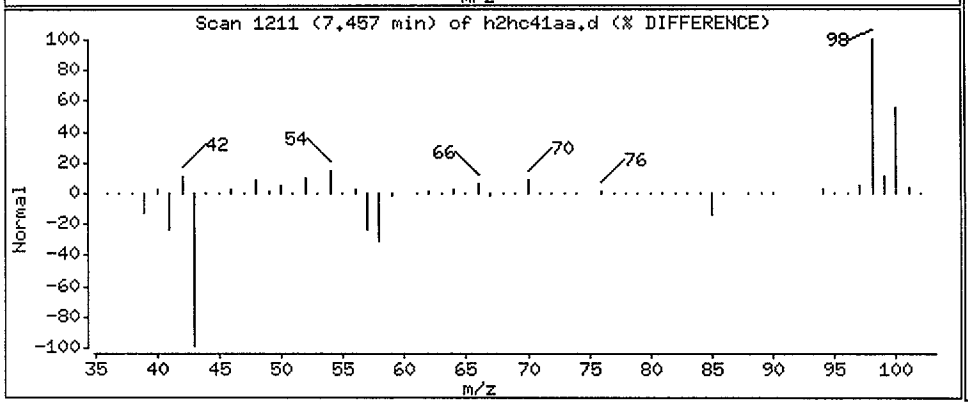
53 4-Methyl-2-pentanone

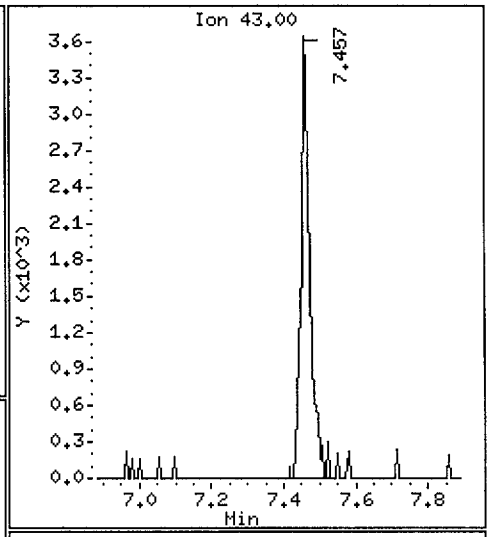
Concentration: 0.020908 ug

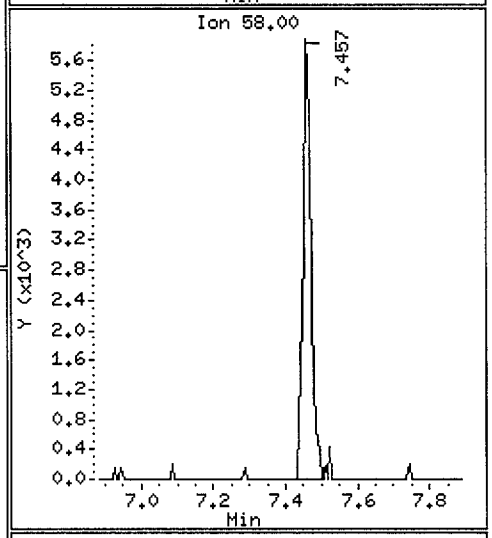


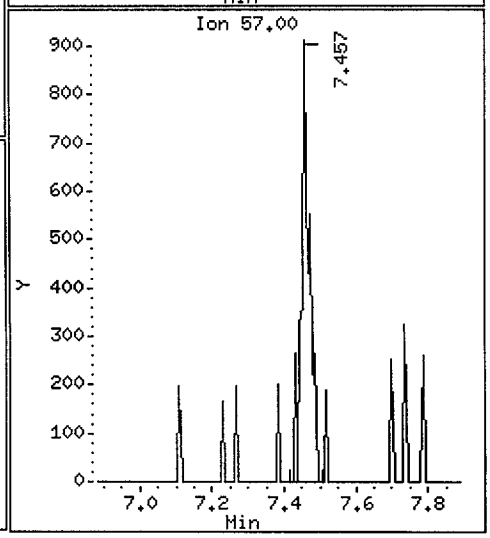












Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

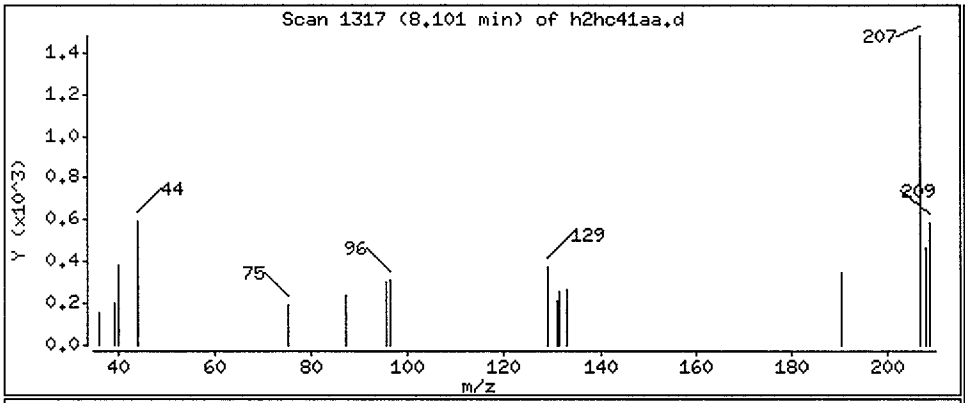
Operator: 22980

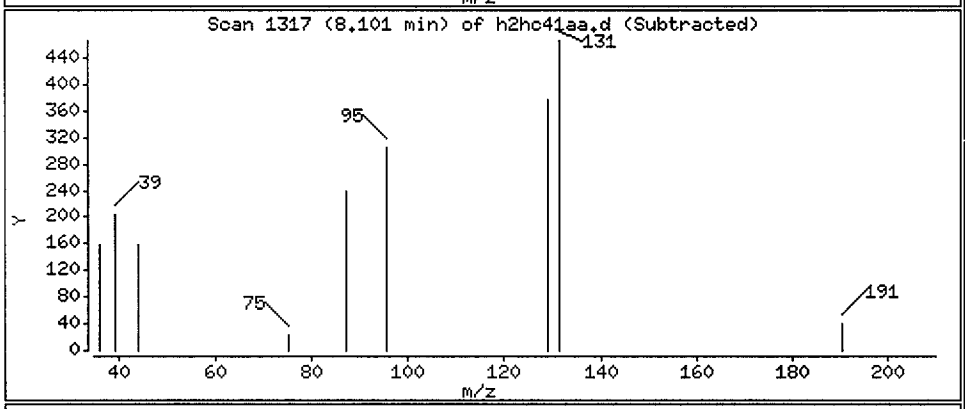
Column phase: J+W 624

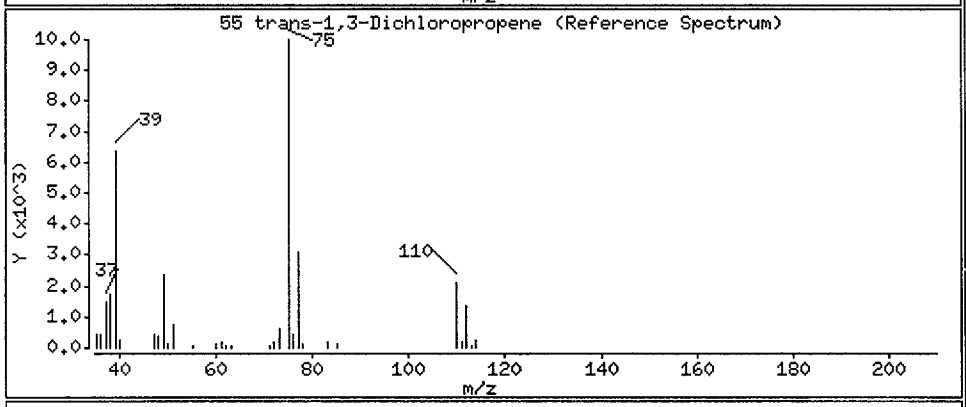
Column diameter: 0.18

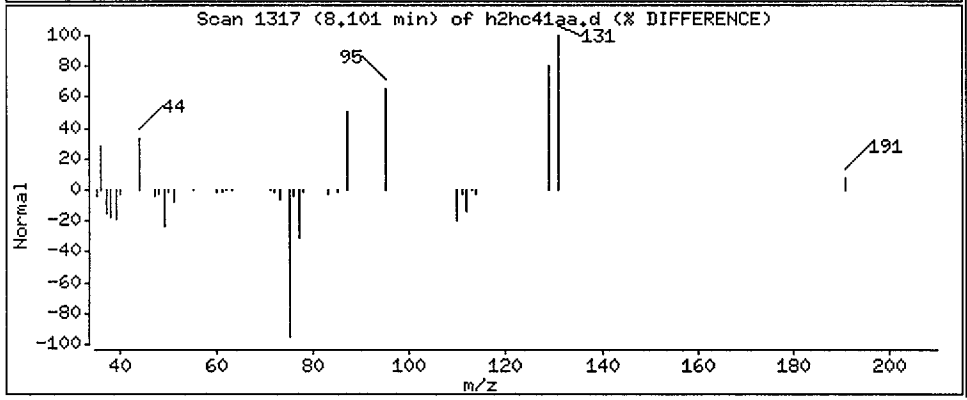
55 trans-1,3-Dichloropropene

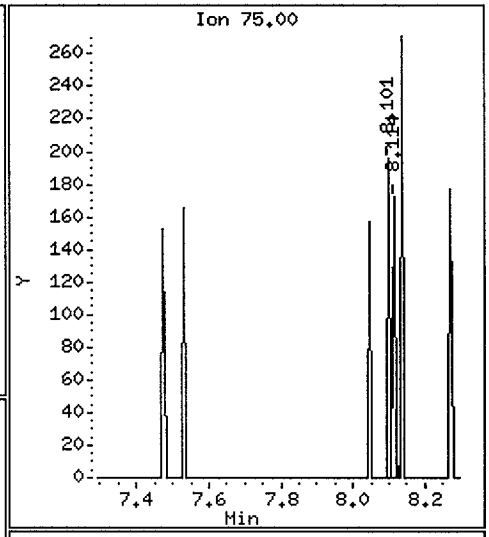
Concentration: 0.015737 ug

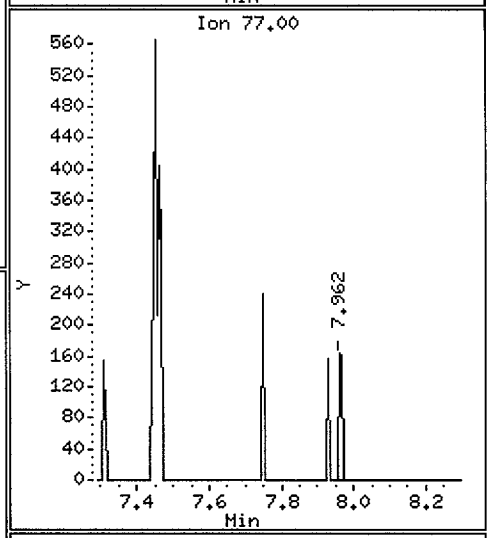


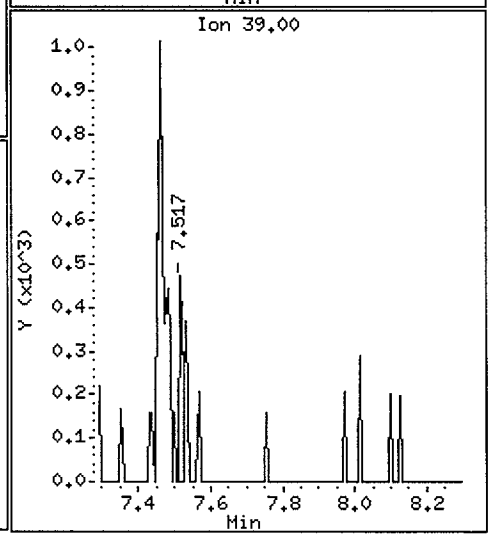












Data File: /chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

Sample Info: H2HC41AA,1,0,,

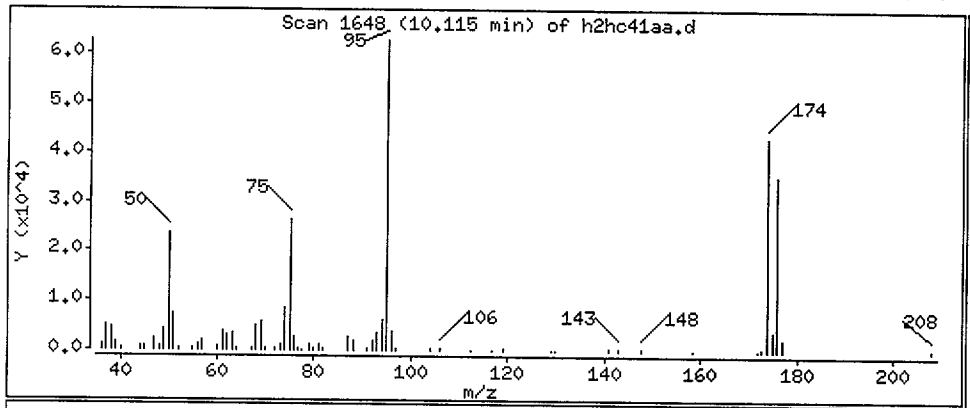
Operator: 22980

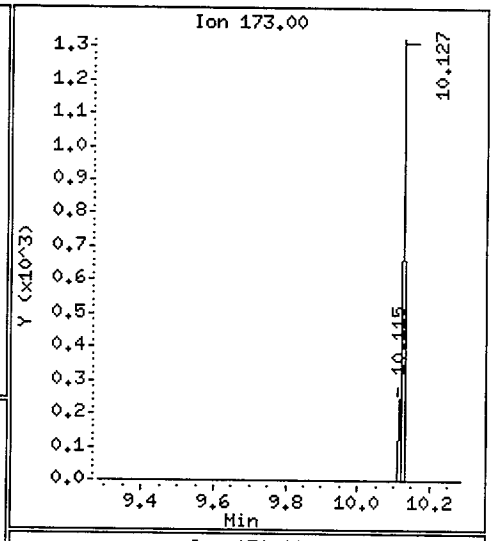
Column phase: J+W 624

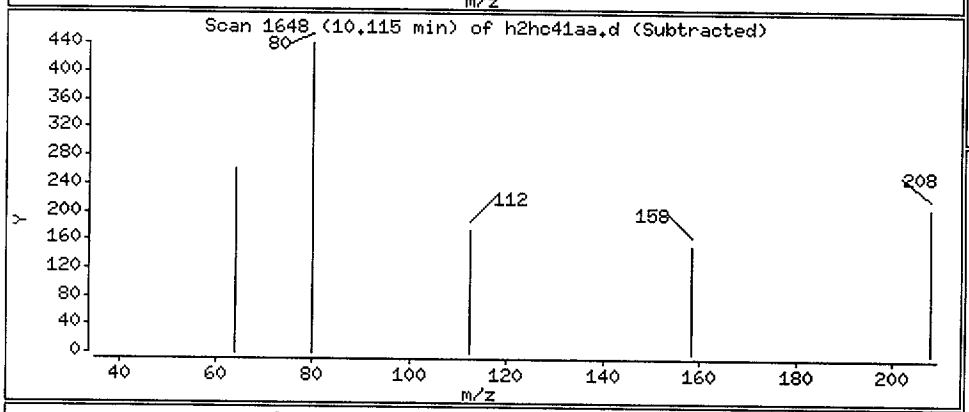
Column diameter: 0.18

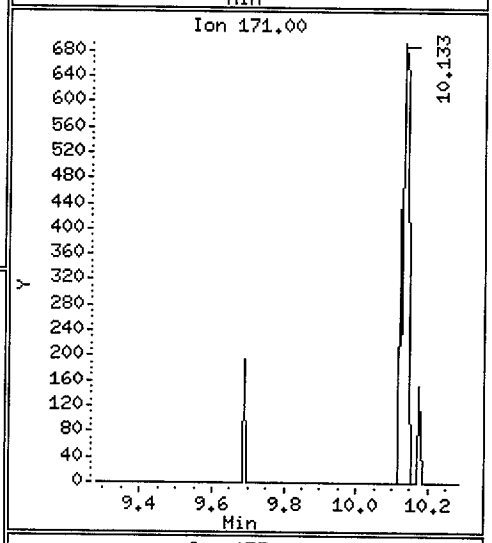
69 Bromoform (spcc)

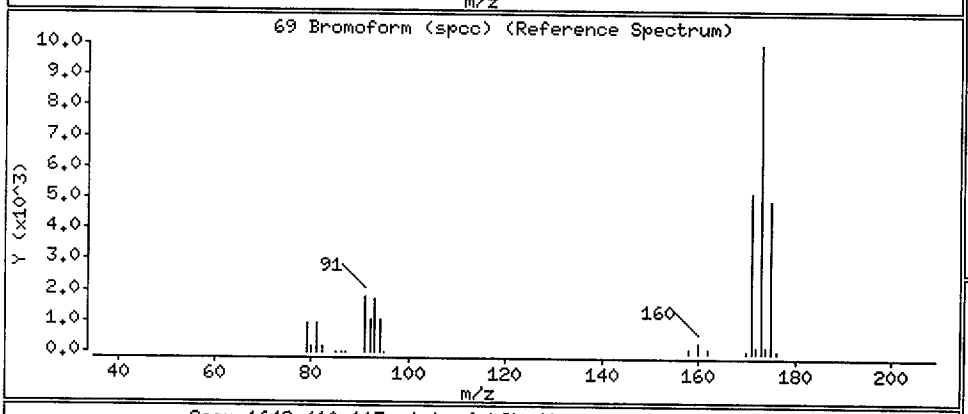
Concentration: 0.020787 ug

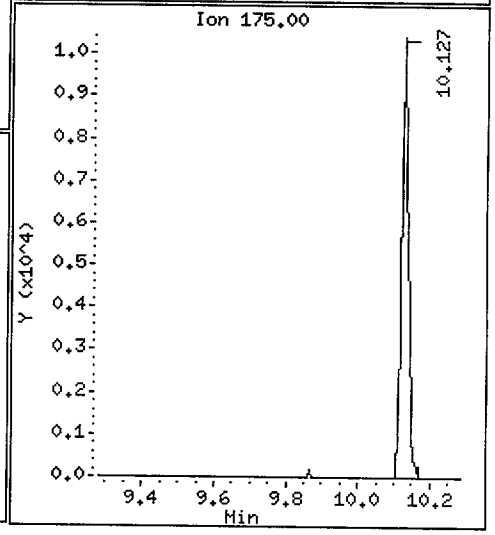


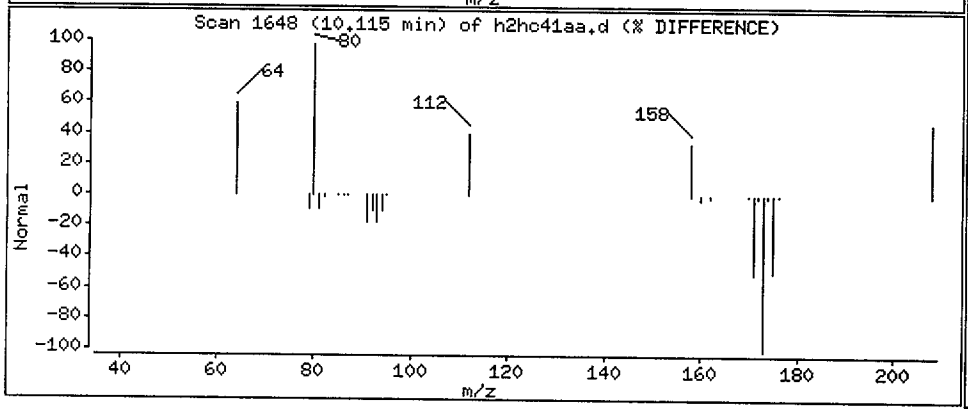












Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Report Date: 14-Apr-2006 17:01

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2hc41aa.d
Lab Smp Id: H2HC41AA Client Smp ID: A-5364 MEDIA CHECK
Inj Date : 07-APR-2006 10:47
Operator : 22980 Inst ID: mz.i
Smp Info : H2HC41AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.674	966388	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.905	5439937	56.2914378	1.4073	5	NIST05.1	80	1

CO2

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2hc41aa.d

Date : 07-APR-2006 10:47

Client ID: A-5364 MEDIA CHECK

Instrument: mz.i

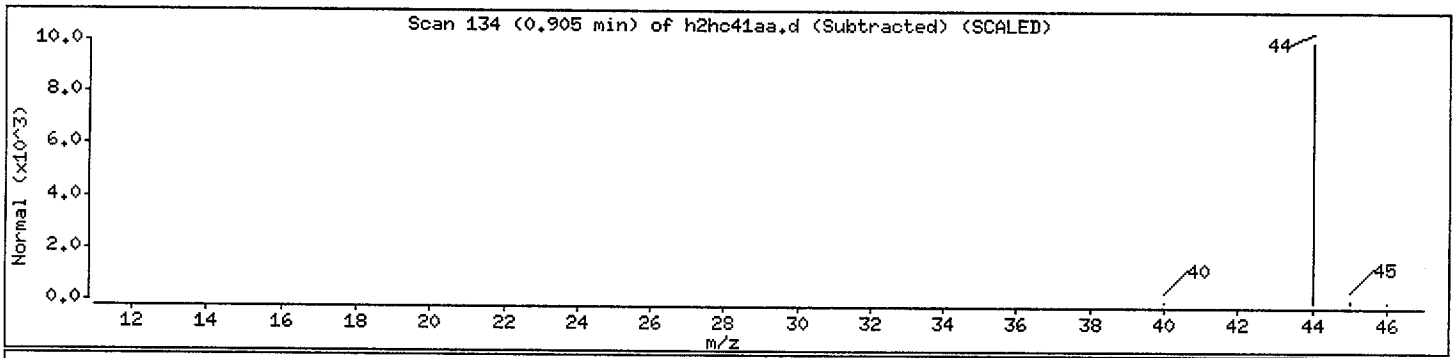
Sample Info: H2HC41AA,1,0,,

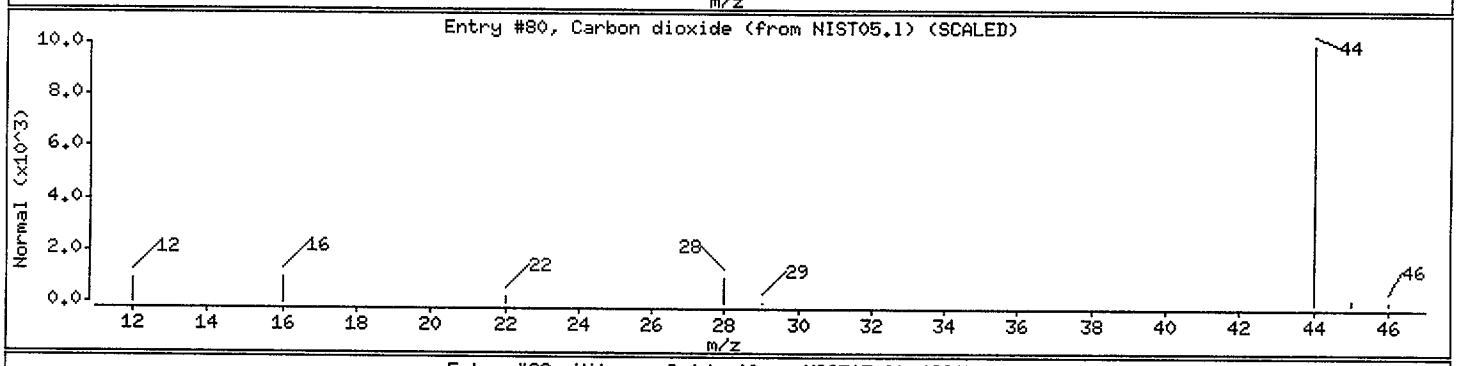
Operator: 22980

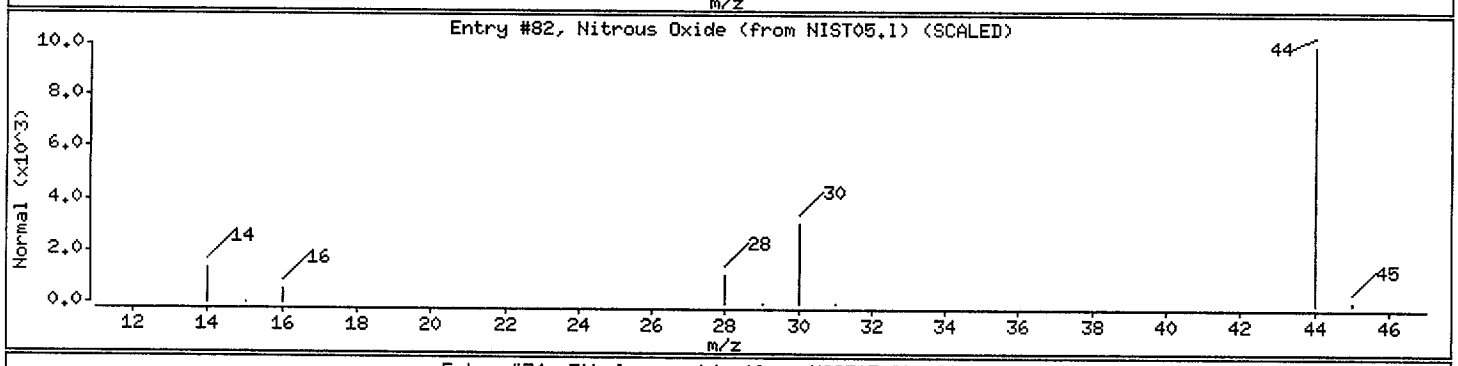
Column phase: J+W 624

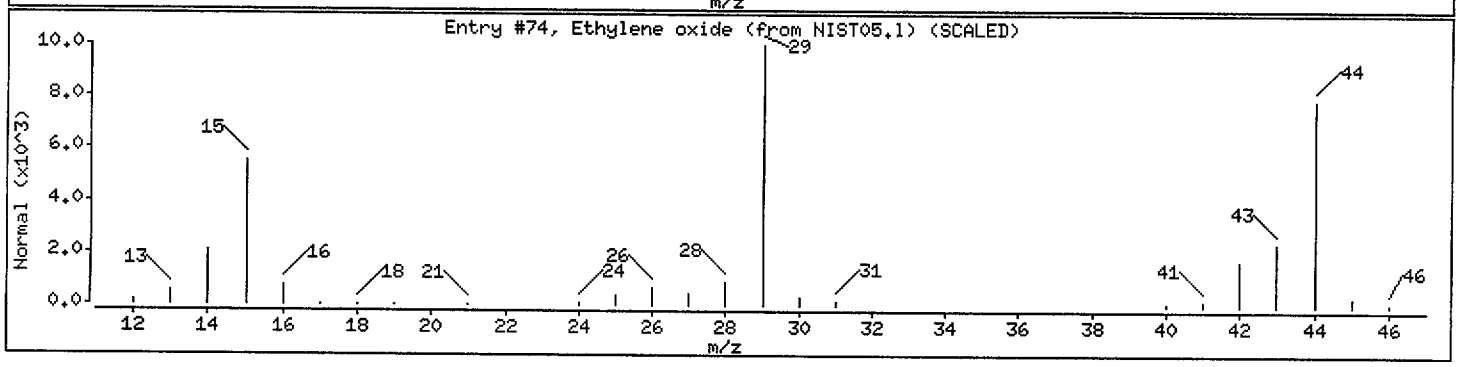
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #...: H6D030169-039 **Work Order #...:** H2KHL1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.31**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.054**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.082 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.015**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.041**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.065**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #...: H6D030169-039 **Work Order #...:** H2KHL1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0032 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	88	(50 - 134)
Toluene-d8	85	(57 - 127)
Bromofluorobenzene	77	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #: H6D030169-039 **Work Order #:** H2KHL1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d
Report Date: 07-Apr-2006 20:30

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2khl1aa.d
Lab Smp Id: H2KHL1AA Client Smp ID: AUDIT VOST #1
Inj Date : 07-APR-2006 20:14
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHL1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	1014147	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	205742	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	209206	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	147222	8.53830	0.21346
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	118400	8.80934	0.22023
$ 6 Toluene-d8	98	6.250	6.250	(0.824)	857028	8.50800	0.21270
$ 7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	190721	7.68890	0.19222
11 Chloromethane (spcc)	50	1.256	1.262	(0.259)	2130	0.04509	0.0011273
21 Acetone	43	2.381	2.381	(0.491)	17697	12.3211	0.30803
23 Carbon Disulfide	76	2.497	2.497	(0.515)	47107	0.60950	0.015237
26 Methylene Chloride	84	2.746	2.746	(0.566)	47196	3.01006	0.075251
33 *Vinyl Acetate	86	3.257	3.421	(0.671)	1181	1.02385	~~0.025596~~
36 2-Butanone	43	3.884	3.871	(0.801)	7348	3.28004	0.082001
38 *THF	42	4.127	4.109	(0.851)	1126	0.82042	~~0.020510~~
39 Chloroform (ccc)	83	4.139	4.139	(0.853)	100922	2.61829	0.065457
41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	60147	1.65217	0.041304
42 1,1-Dichloropropene	75	4.614	4.437	(0.951)	4123	0.10269	~~0.0025673~~
43 Benzene	78	4.608	4.607	(0.950)	219967	2.14167	0.053542
44 1,2-Dichloroethane	62	4.608	4.620	(0.950)	1960	0.11340	~~0.0028351~~
52 4-Methyl-2-pentanone	43	6.250	6.147	(1.288)	7010	1.30646	~~0.032662~~

4/19/06

39

Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d
Report Date: 07-Apr-2006 20:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
53 Toluene (ccc)	91	6.311	6.311	(0.832)	15495	0.12858	0.0032144
54 trans-1,3-Dichloropropene	75	6.718	6.506	(0.886)	1332	0.06307	~~0.0015768~~
56 1,1,2-Trichloroethane	97	6.816	6.670	(0.899)	1251	0.13151	~~0.0032877~~
57 Tetrachloroethene	164	6.816	6.816	(0.899)	141949	5.48184	0.13705
60 Chlorodibromomethane	129	6.816	7.035	(0.899)	128261	10.8743	~~0.27186~~

4/12/06

Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d
Report Date: 07-Apr-2006 20:30

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2khl1aa.d
Lab Smp Id: H2KHL1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: AUDIT VOST #1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1014147	-11.75
2 Chlorobenzene-d5	214194	107097	428388	205742	-3.95
3 1,4 Dichlorobenze	242601	121300	485202	209206	-13.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.00
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.00

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.

Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d
Report Date: 07-Apr-2006 20:30

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2KHL1AA
Client Smp ID: AUDIT VOST #1
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

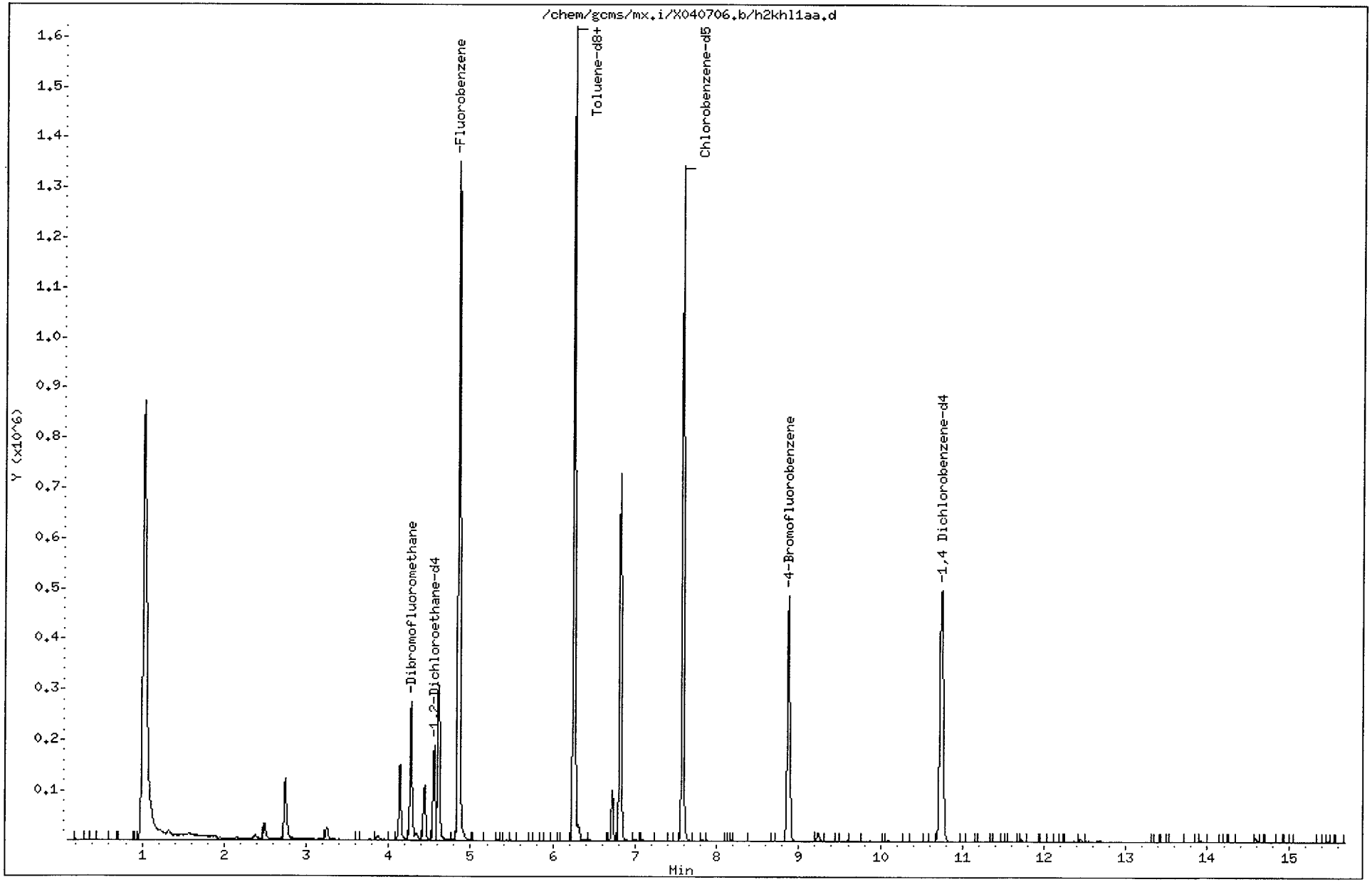
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.21346	85.38	50-150
$ 5 1,2-Dichloroethane	0.25000	0.22023	88.09	50-150
$ 6 Toluene-d8	0.25000	0.21270	85.08	50-150
$ 7 4-Bromofluorobenze	0.25000	0.19222	76.89	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d
Date : 07-APR-2006 20:14
Client ID: AUDIT VOST #1
Sample Info: H2KHL1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

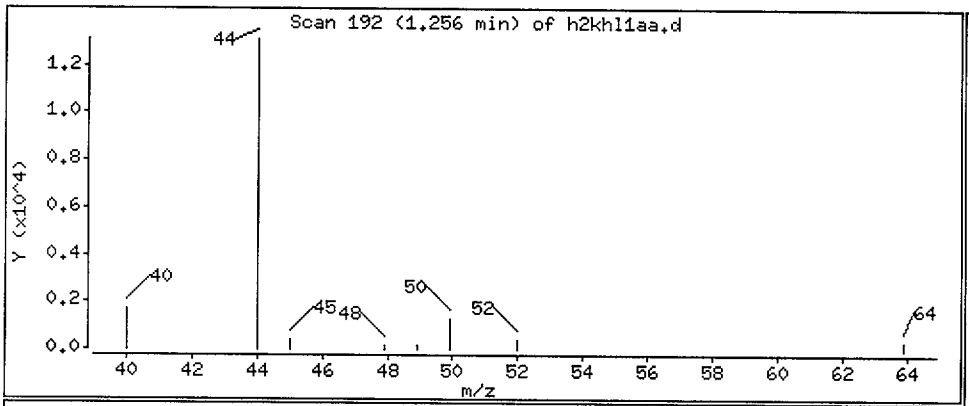
Operator: 22980

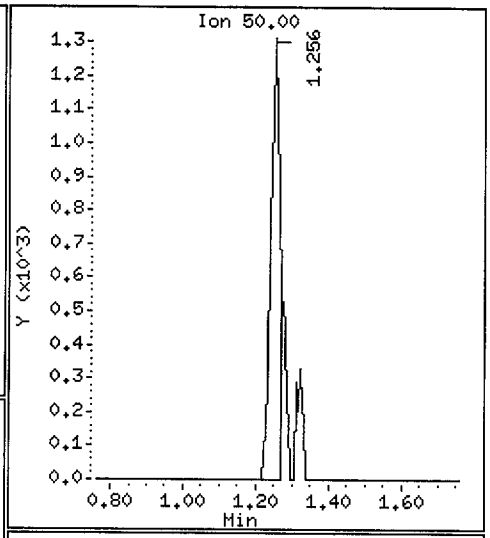
Column phase: J+W 624

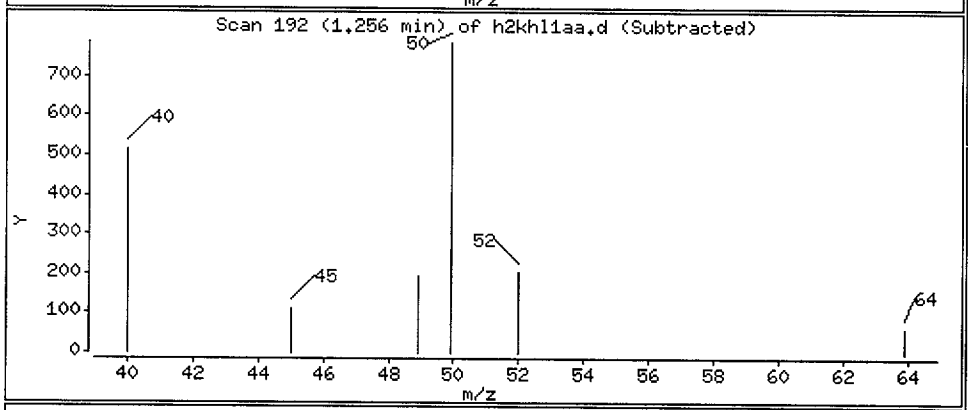
Column diameter: 0.18

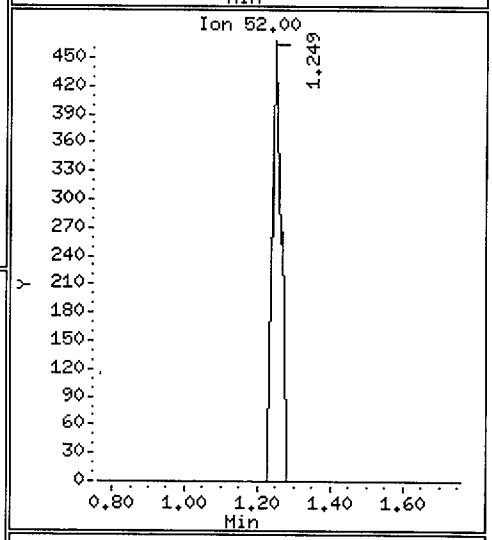
11 Chloromethane (spcc)

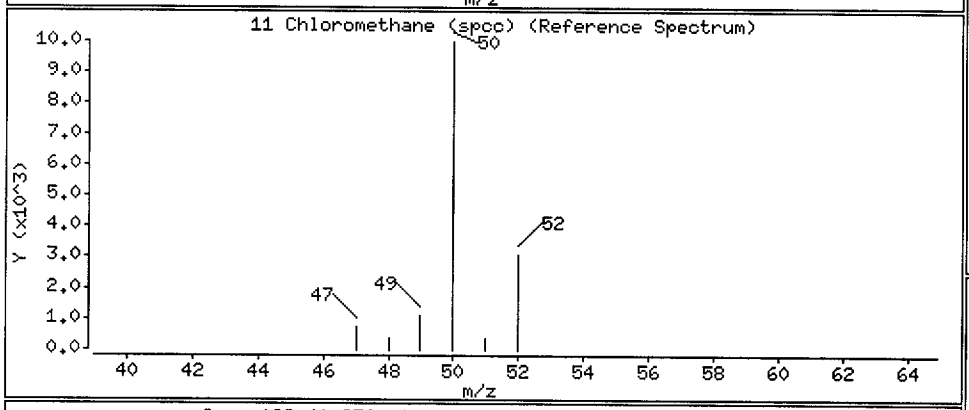
Concentration: 0.0011273 ug

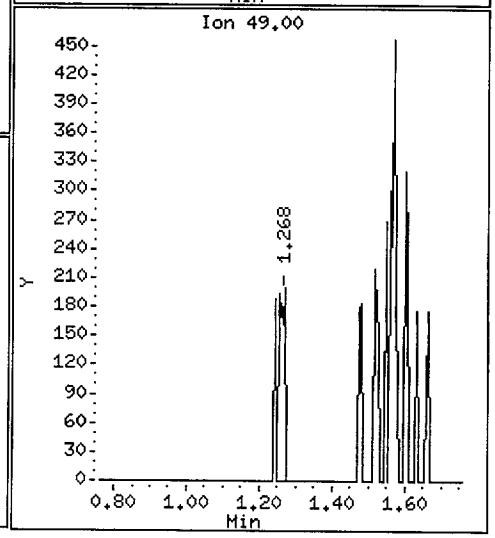


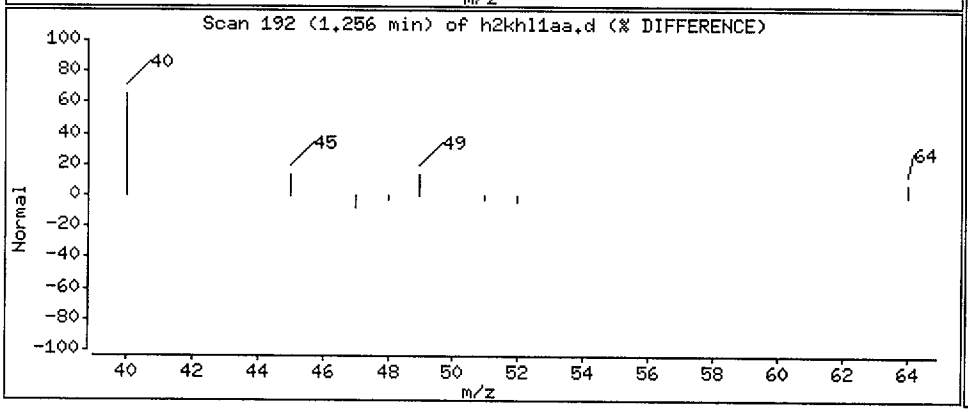












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

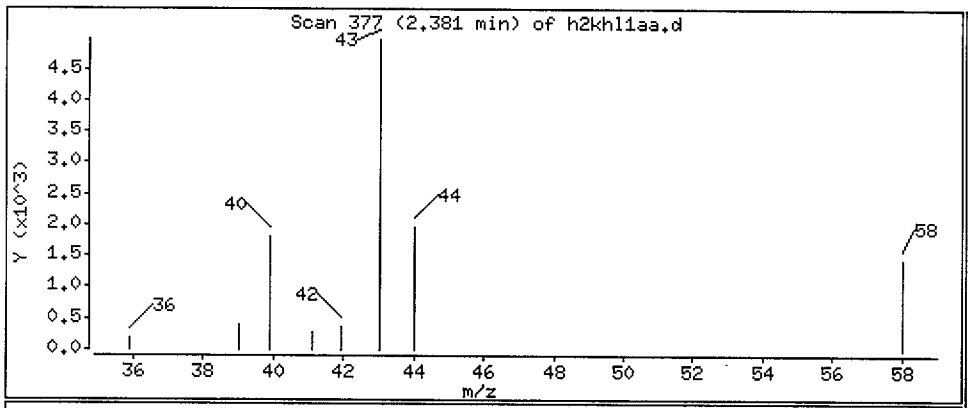
Operator: 22980

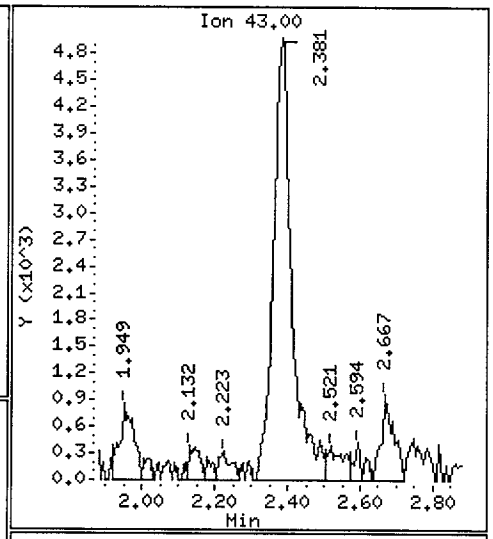
Column phase: J+W 624

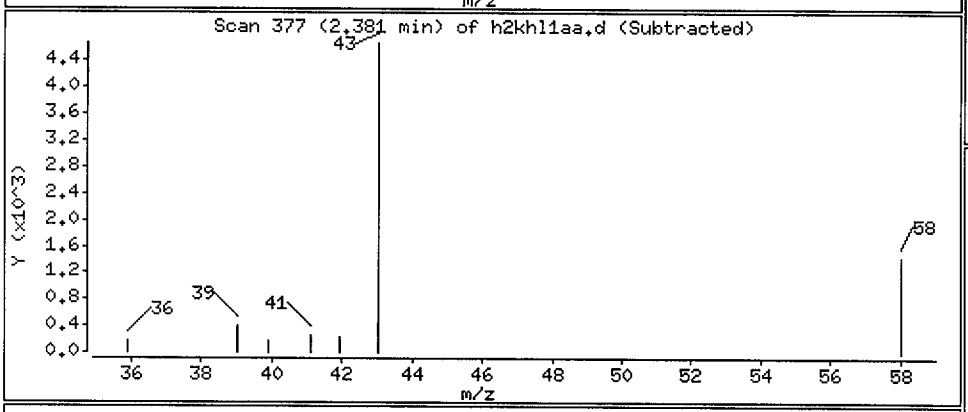
Column diameter: 0.18

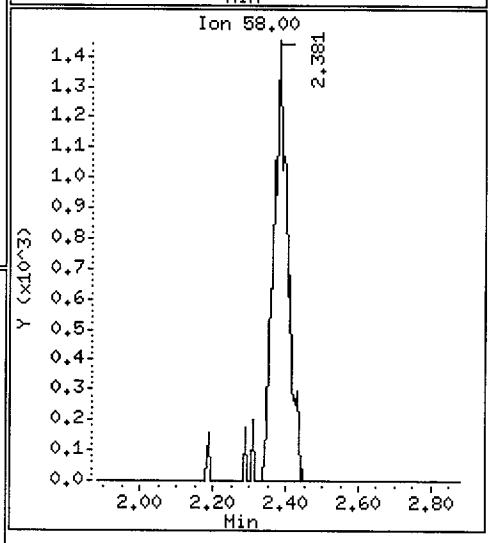
21 Acetone

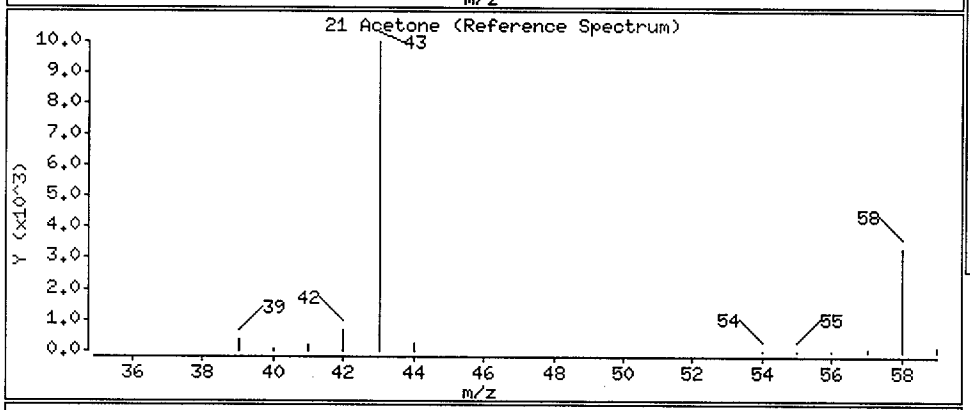
Concentration: 0.30803 ug

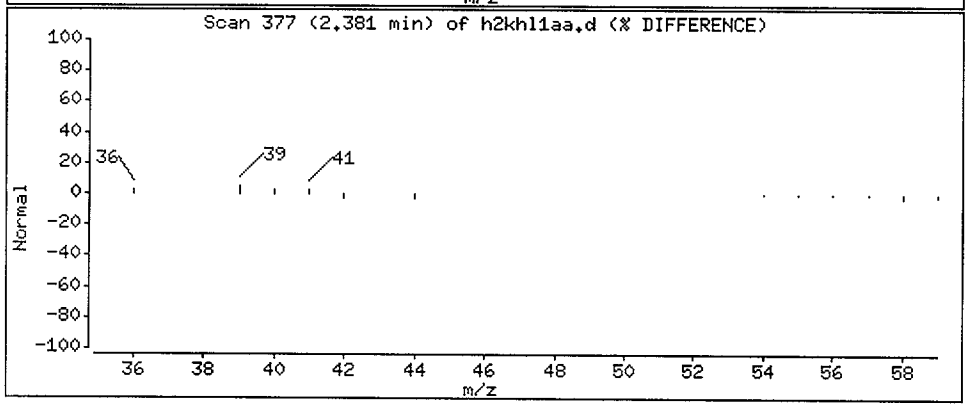












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

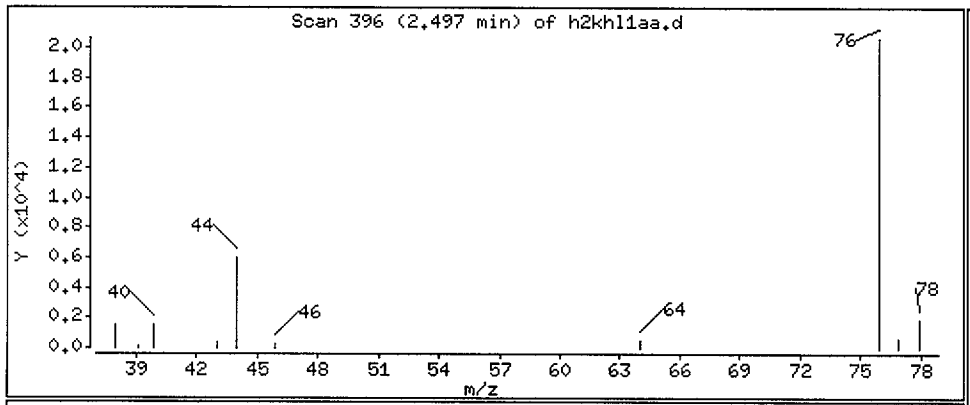
Operator: 22980

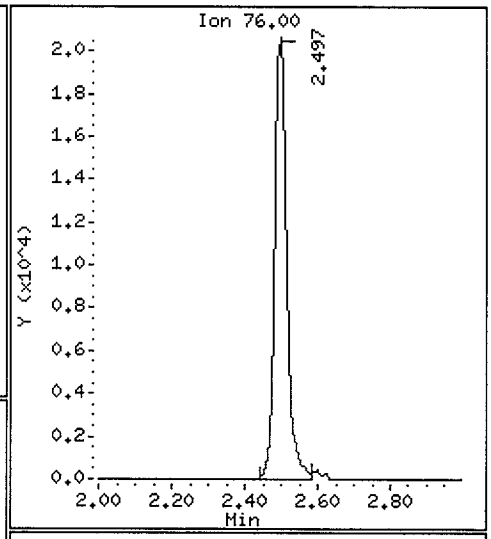
Column phase: J+W 624

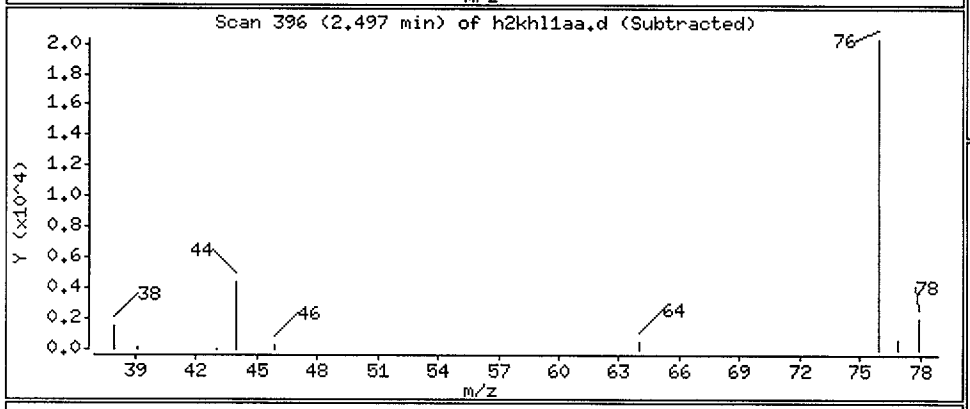
Column diameter: 0.18

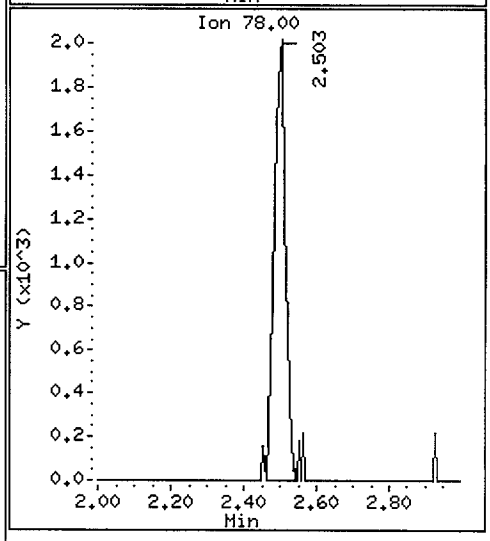
23 Carbon Disulfide

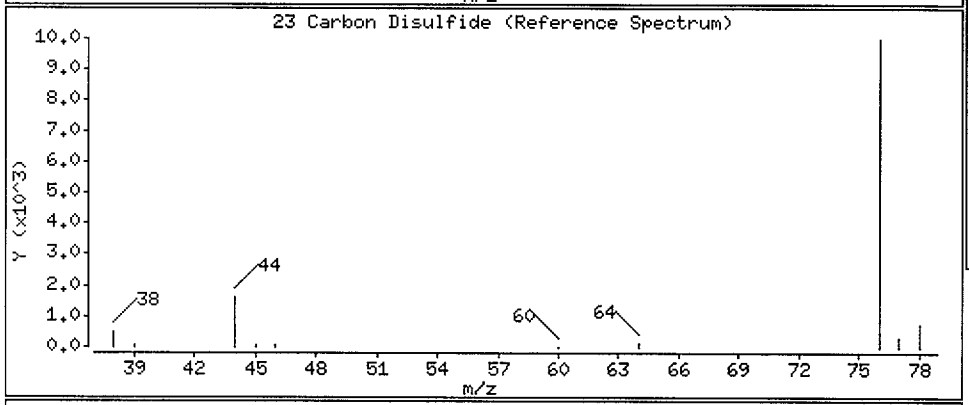
Concentration: 0.015237 ug

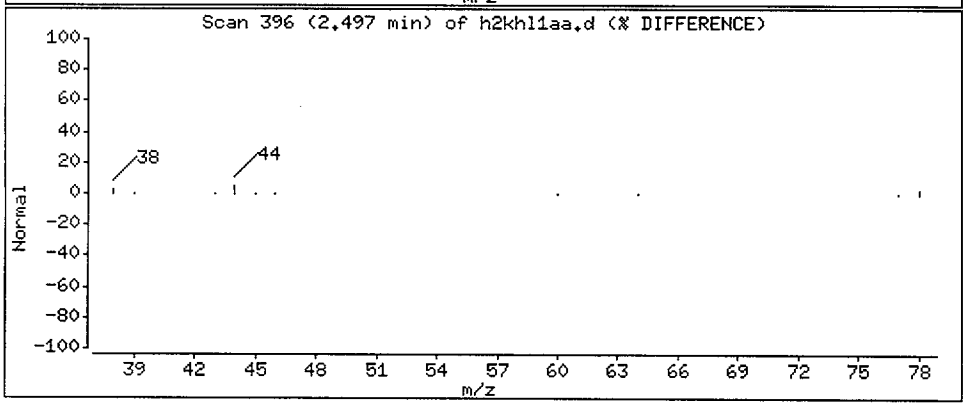












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

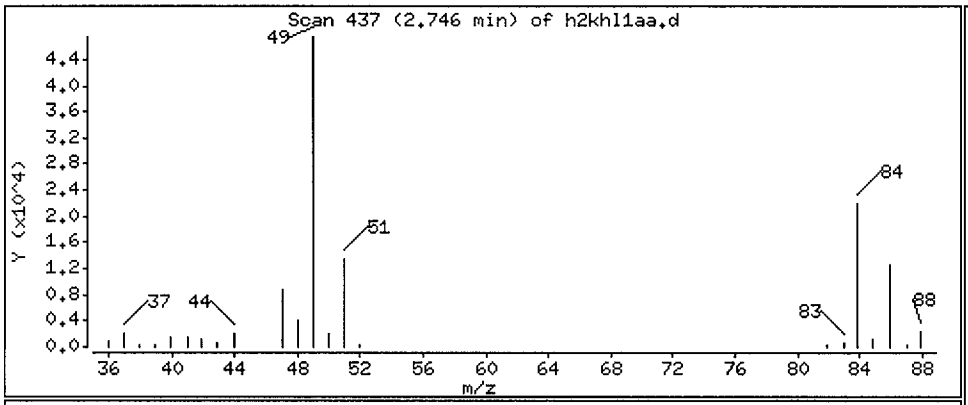
Operator: 22980

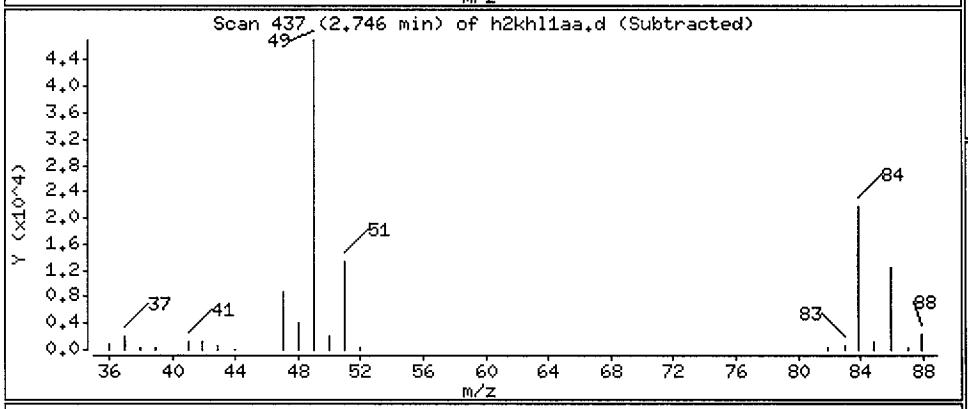
Column phase: J+W 624

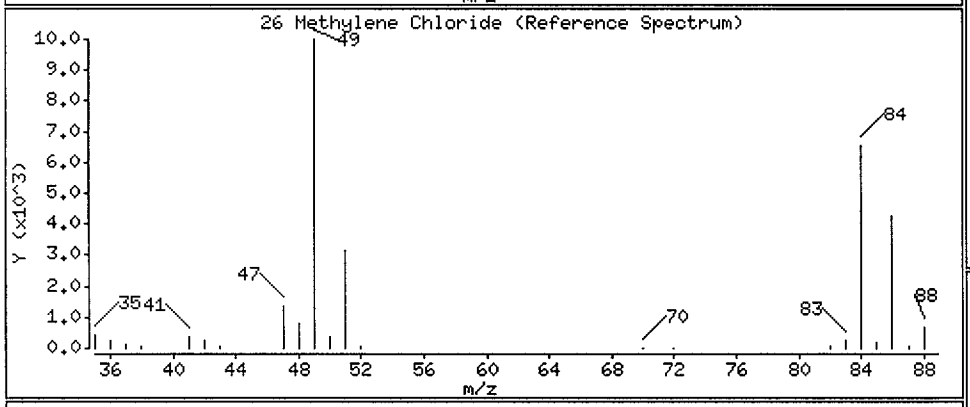
Column diameter: 0.18

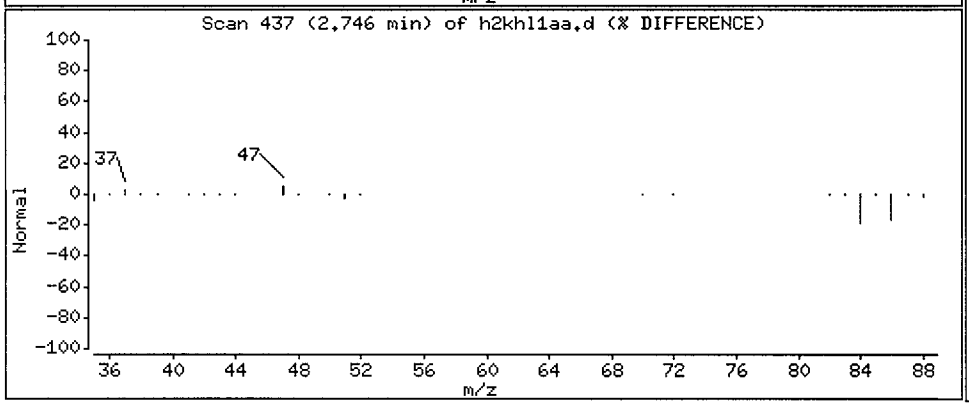
26 Methylene Chloride

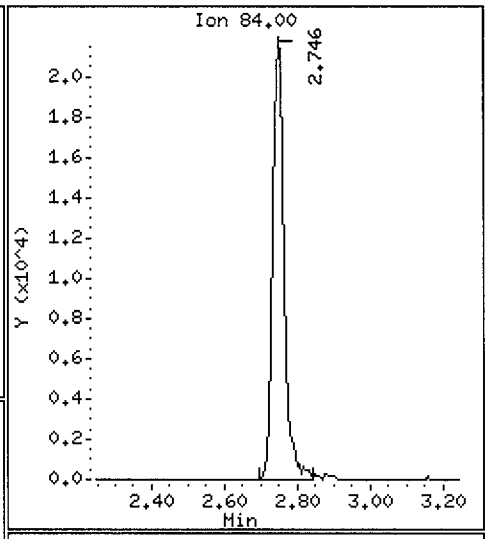
Concentration: 0.075251 ug

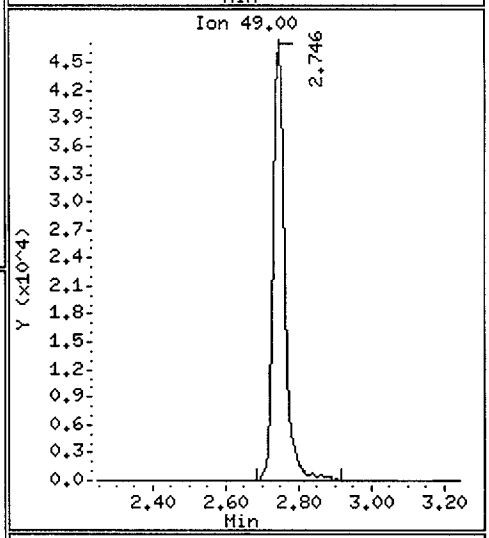


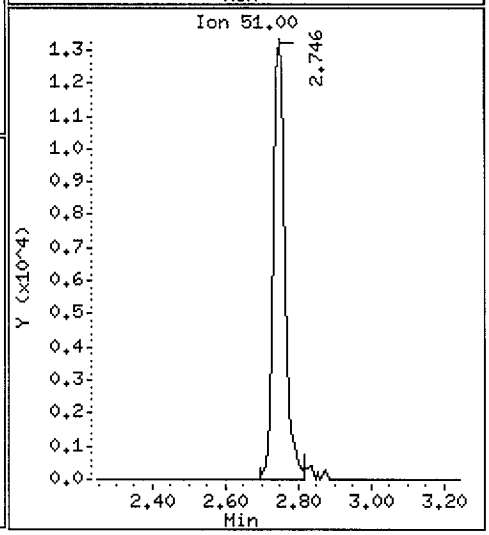












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

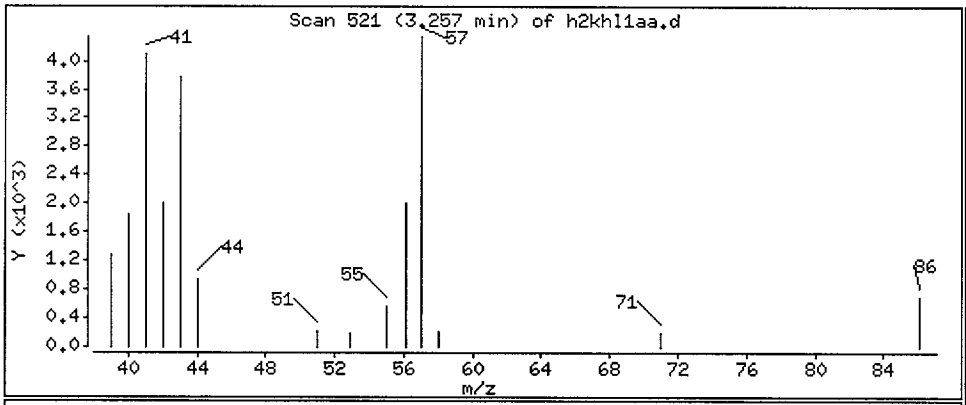
Operator: 22980

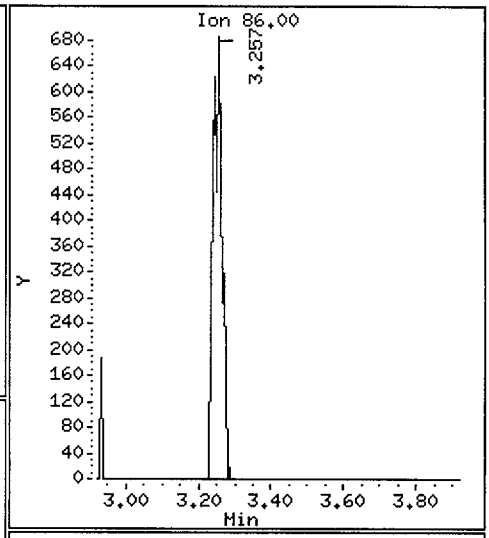
Column phase: J+W 624

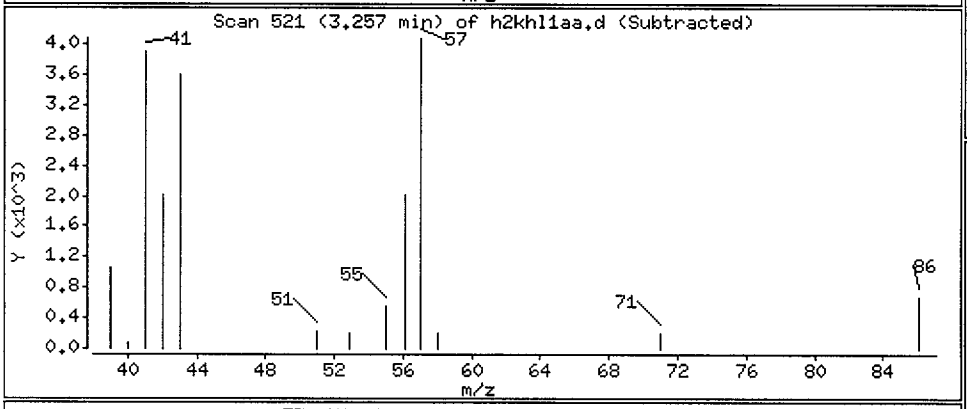
Column diameter: 0.18

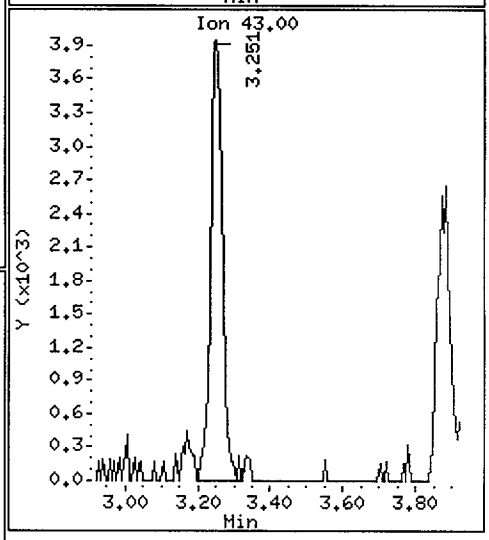
33 *Vinyl Acetate

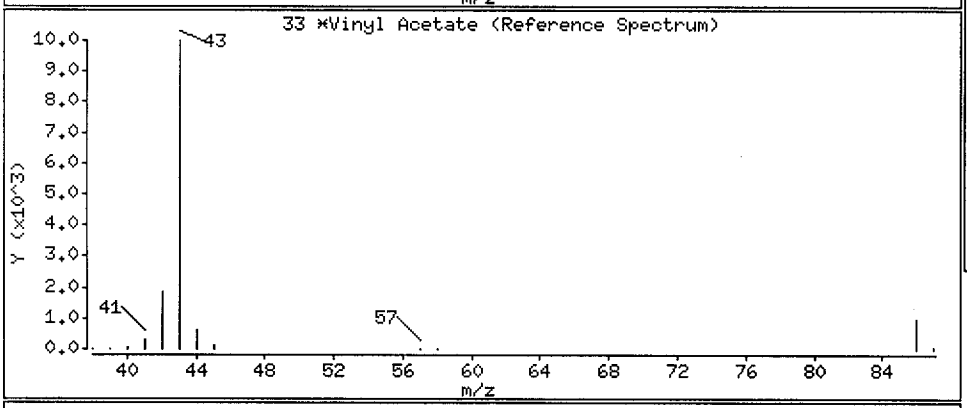
Concentration: 0.025596 ug

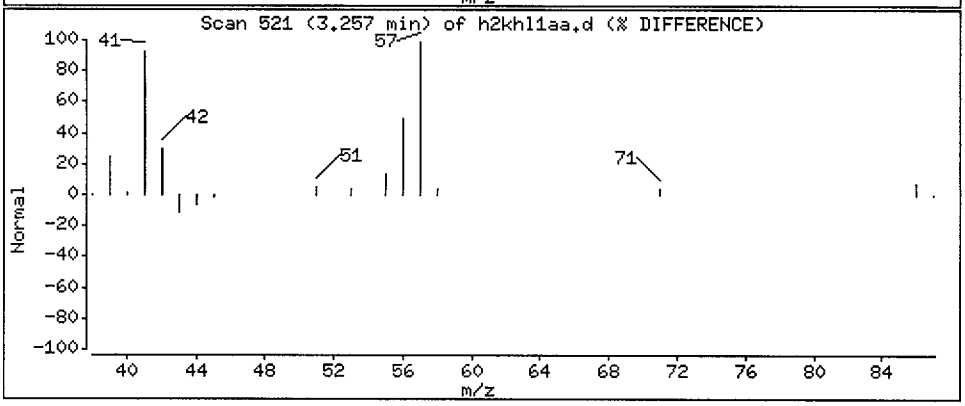












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

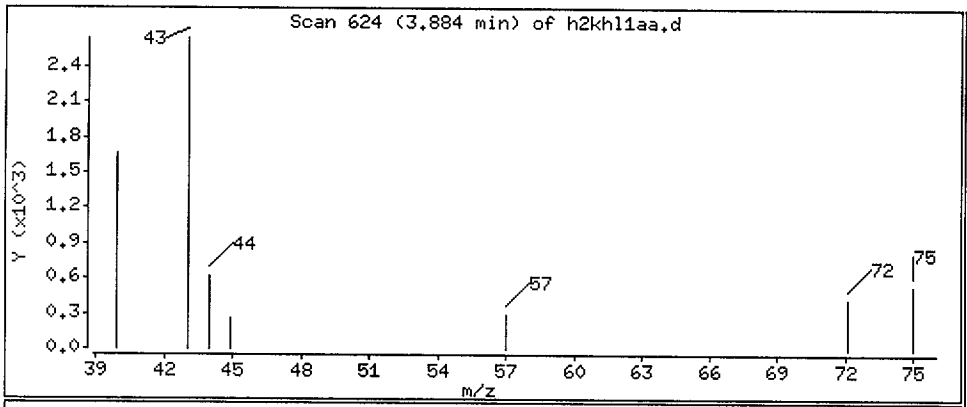
Operator: 22980

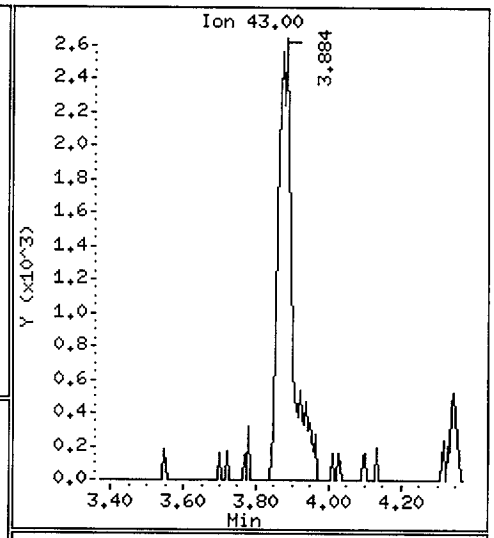
Column phase: J+W 624

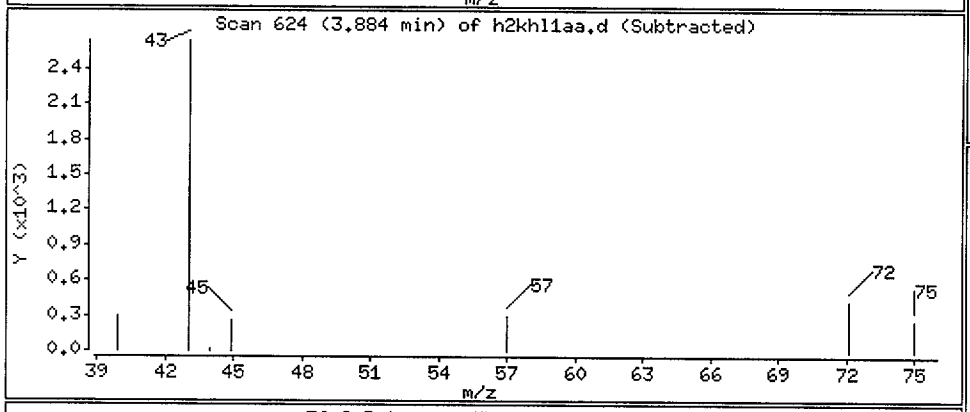
Column diameter: 0.18

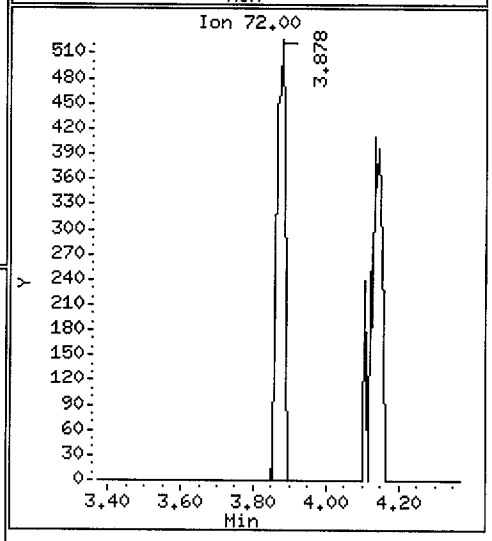
36 2-Butanone

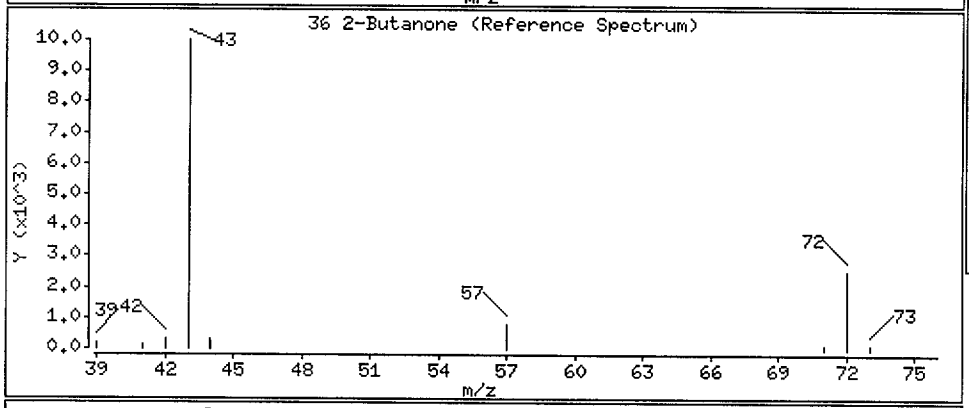
Concentration: 0.082001 ug

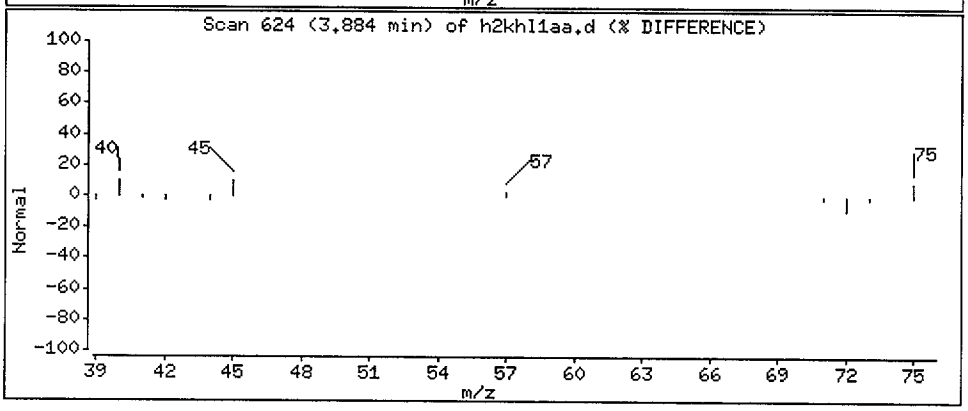












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

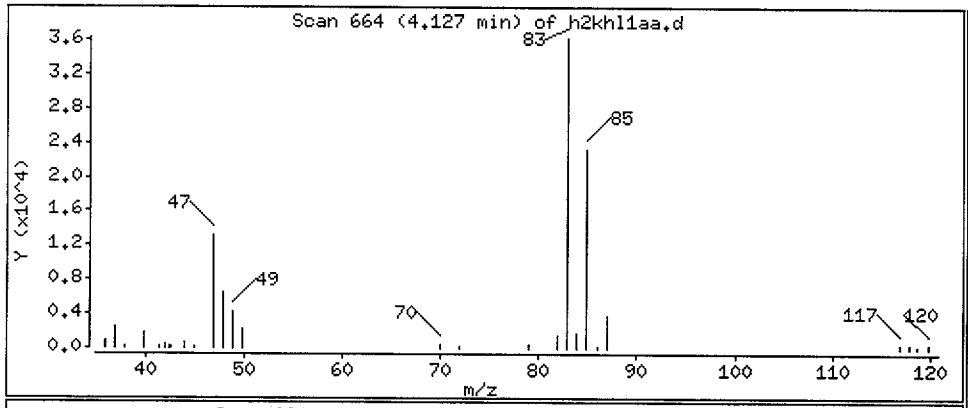
Operator: 22980

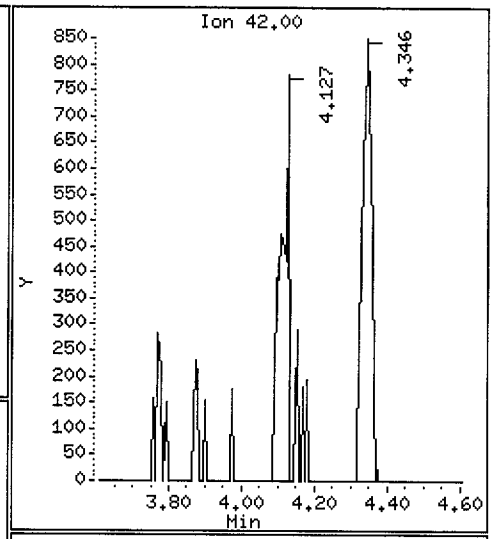
Column phase: J+W 624

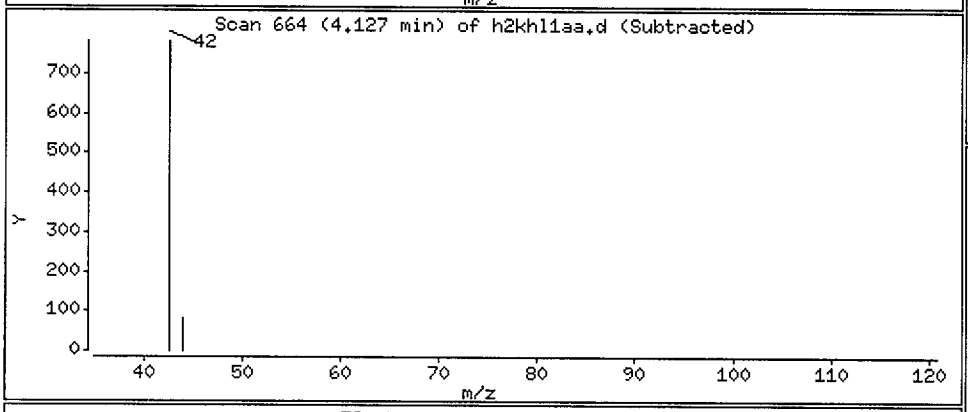
Column diameter: 0.18

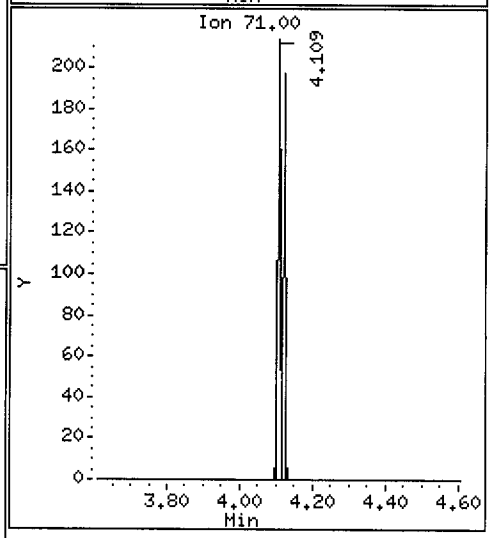
38 *THF

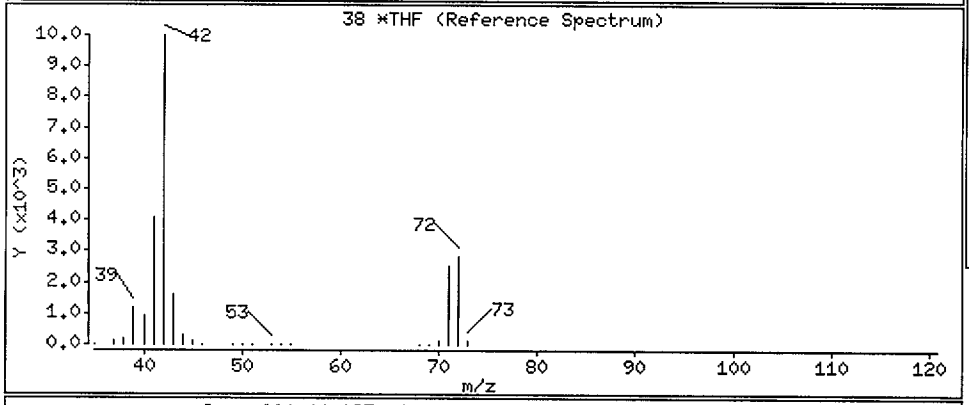
Concentration: 0.020510 ug

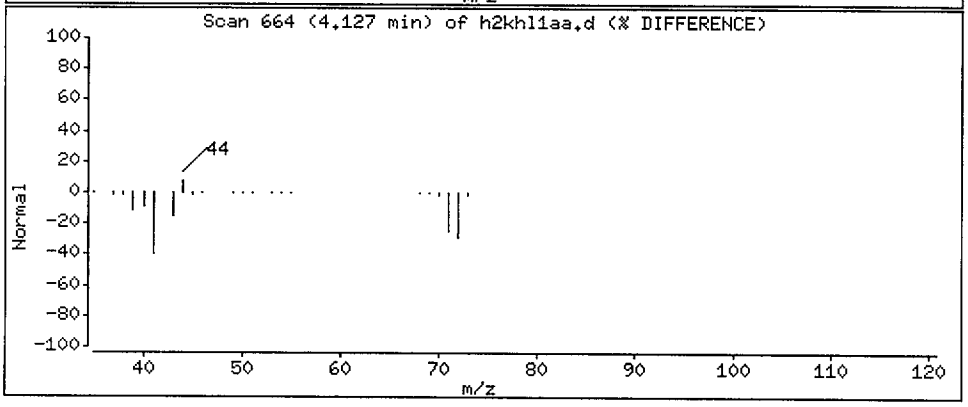












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

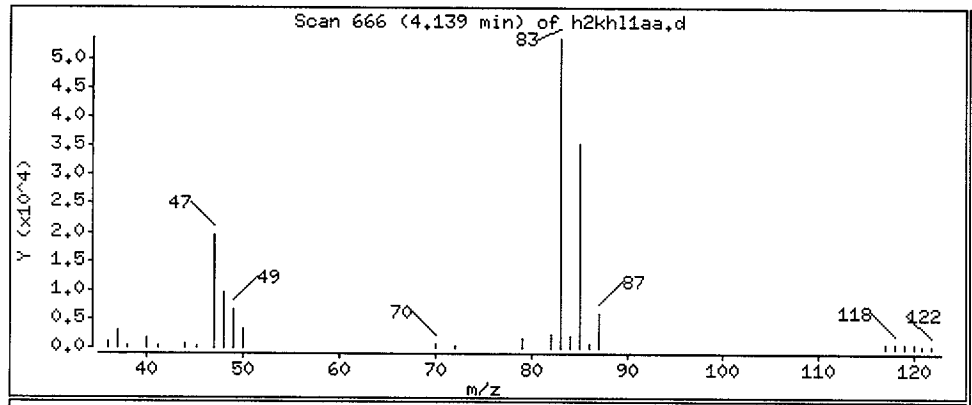
Operator: 22980

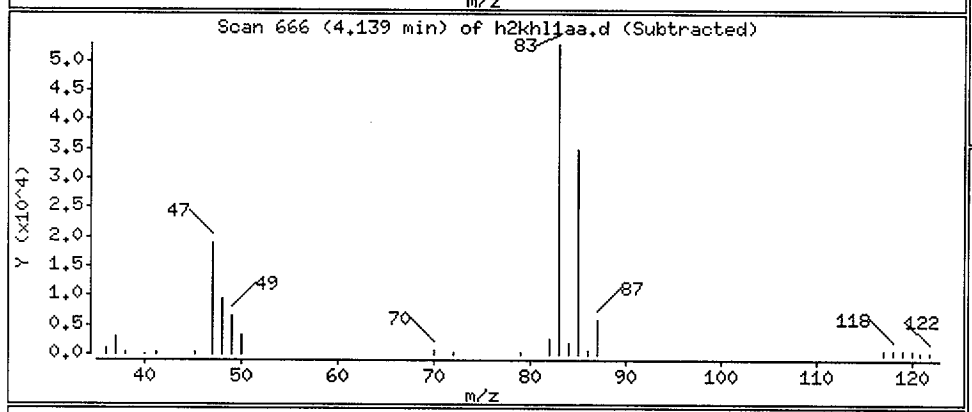
Column phase: J+W 624

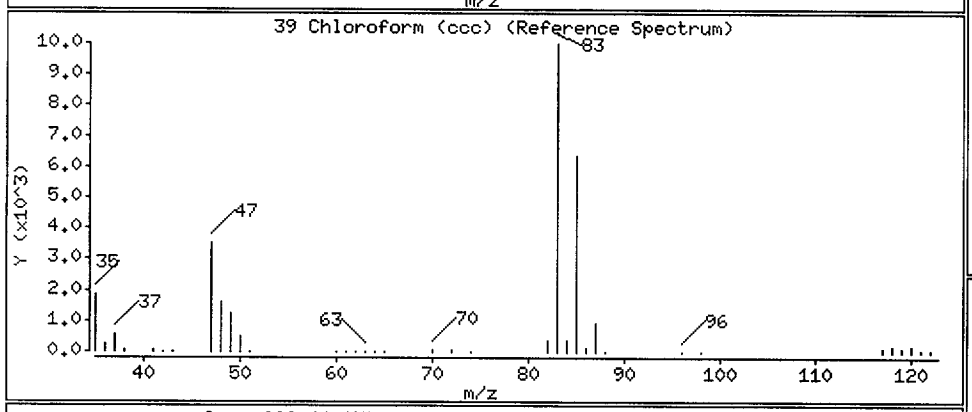
Column diameter: 0.18

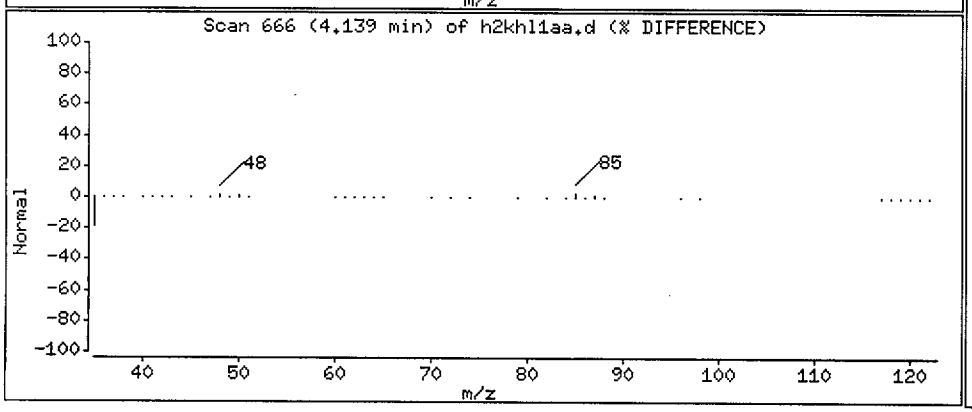
39 Chloroform (ccc)

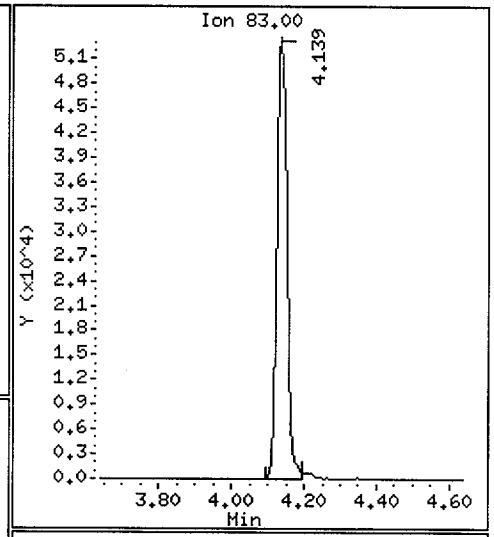
Concentration: 0.065457 ug

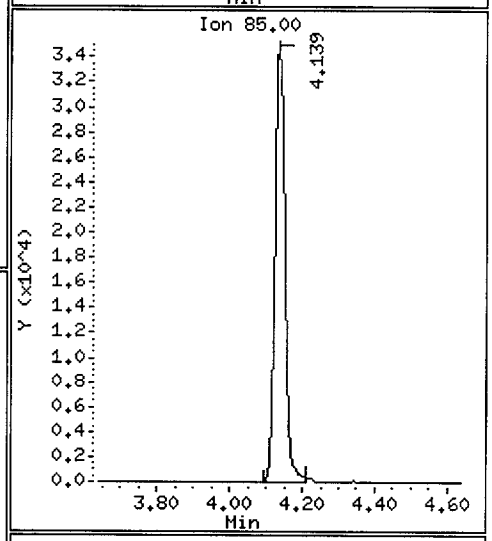


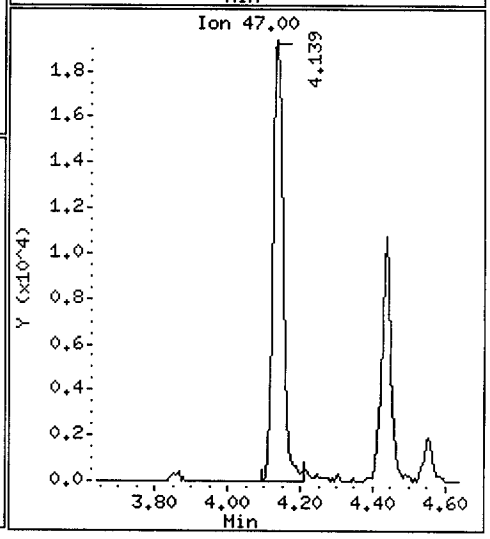












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

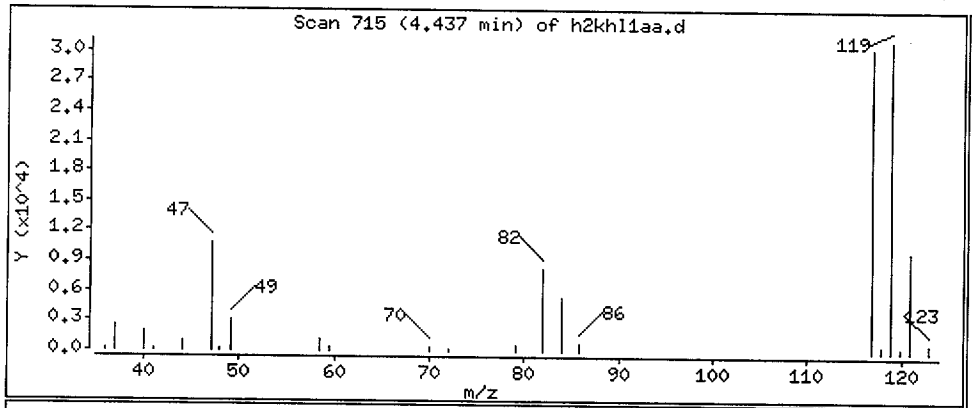
Operator: 22980

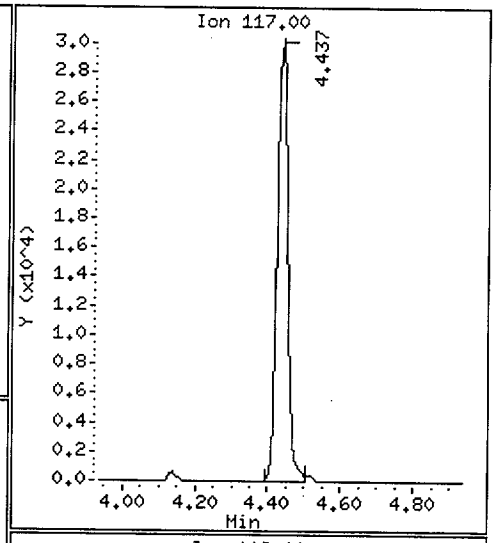
Column phase: J+W 624

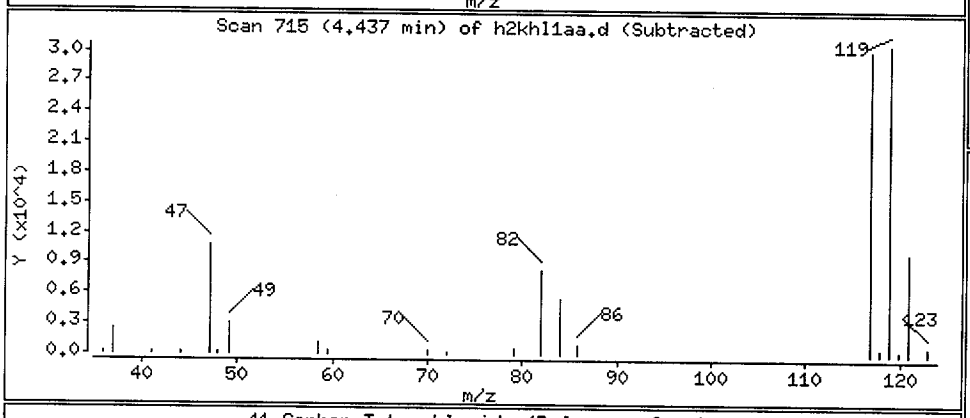
Column diameter: 0.18

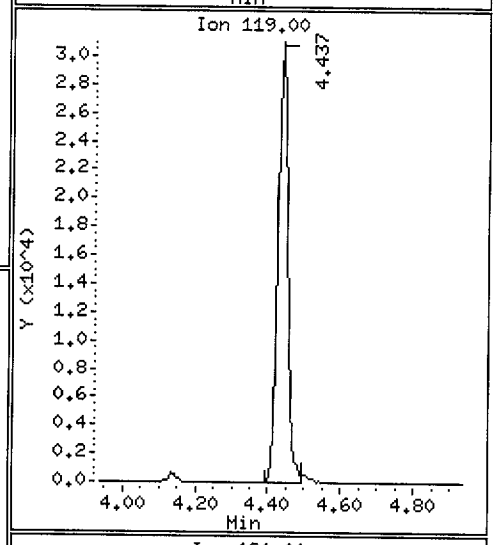
41 Carbon Tetrachloride

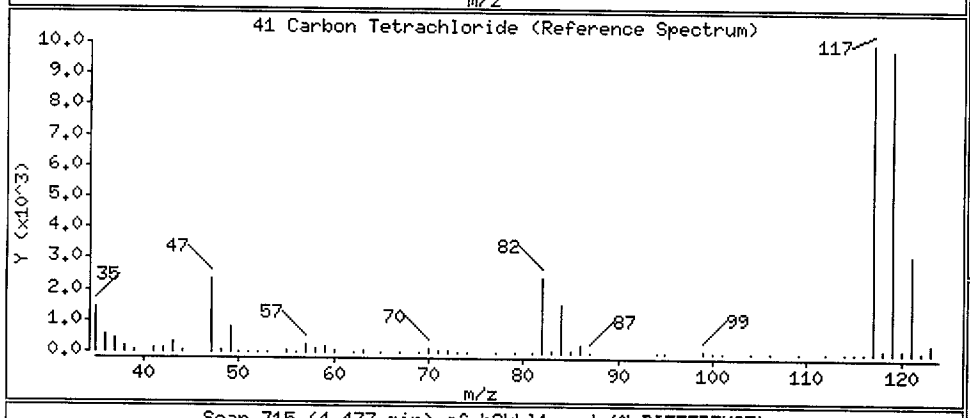
Concentration: 0.041304 ug

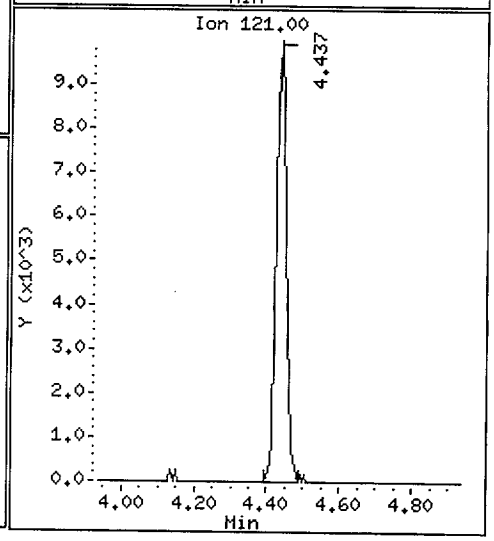


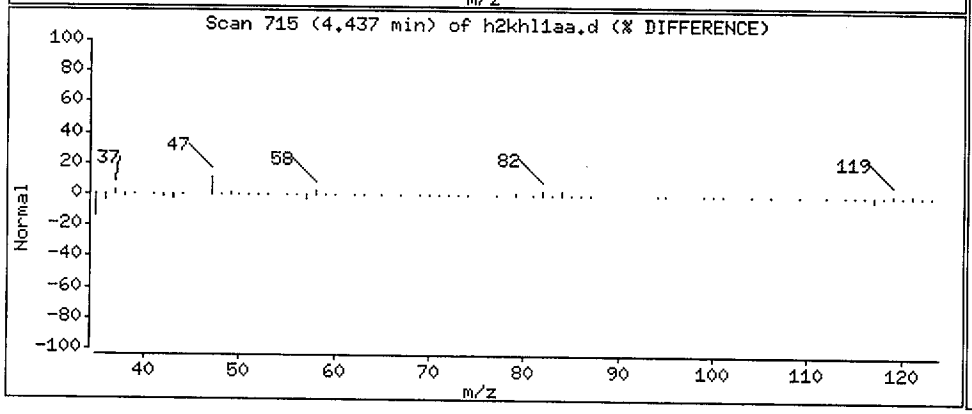












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

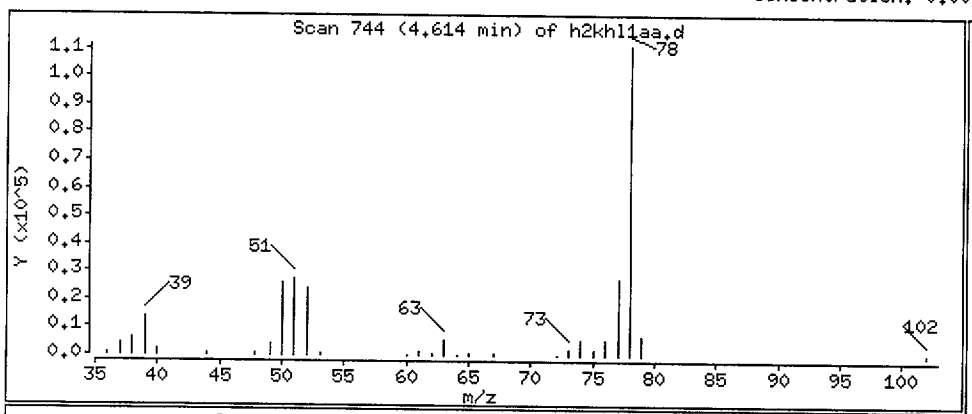
Operator: 22980

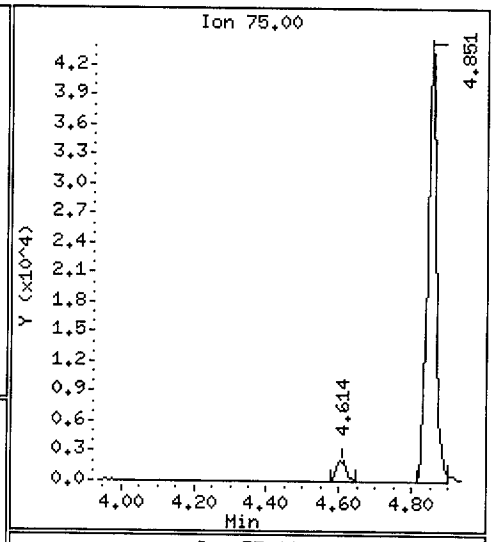
Column phase: J+W 624

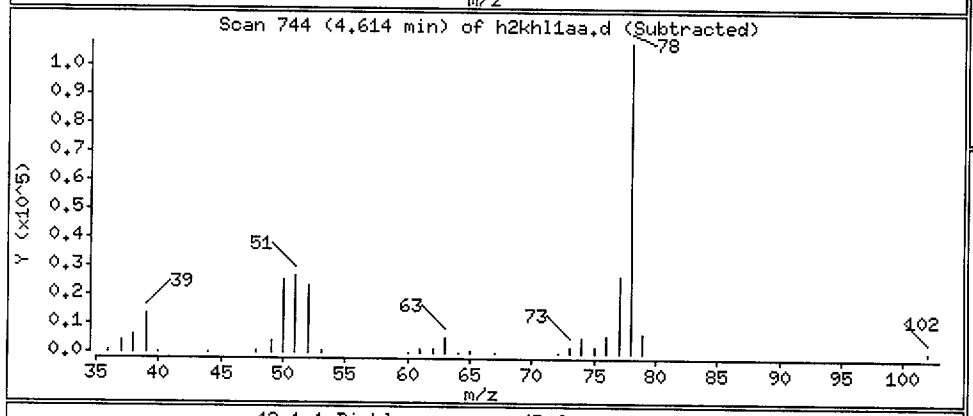
Column diameter: 0.18

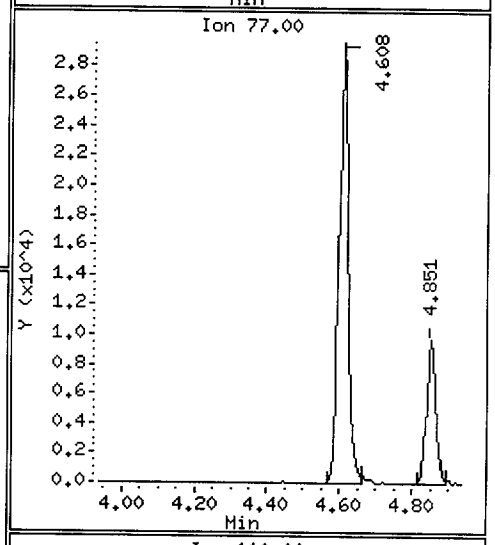
42 1,1-Dichloropropene

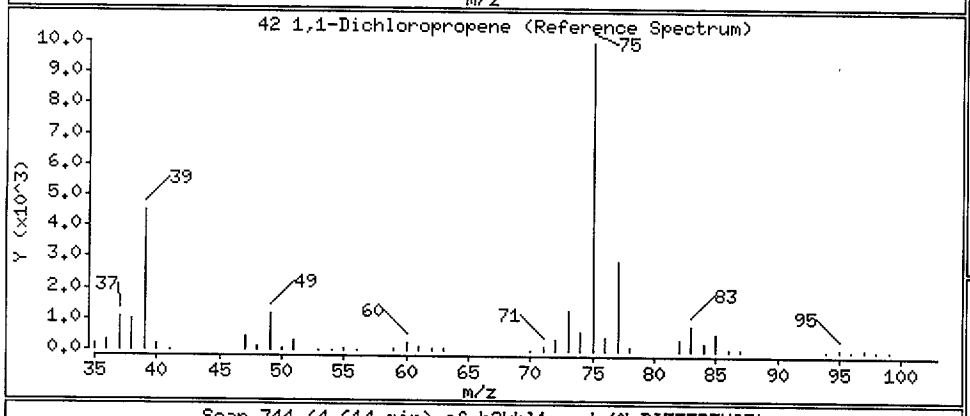
Concentration: 0.0025673 ug

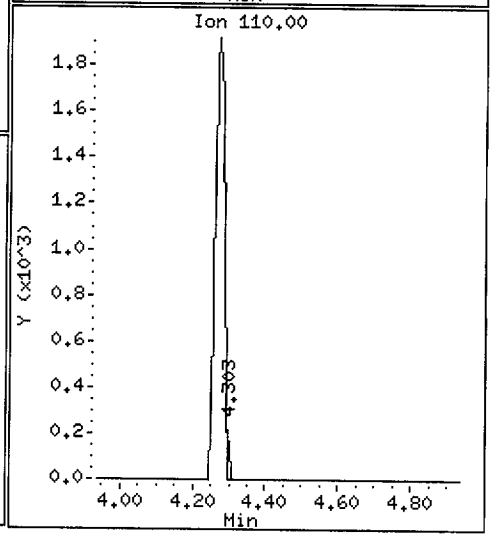


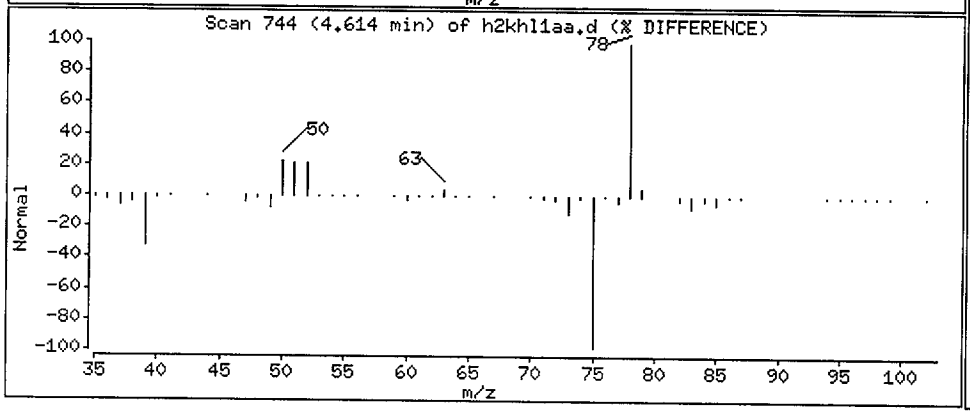












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

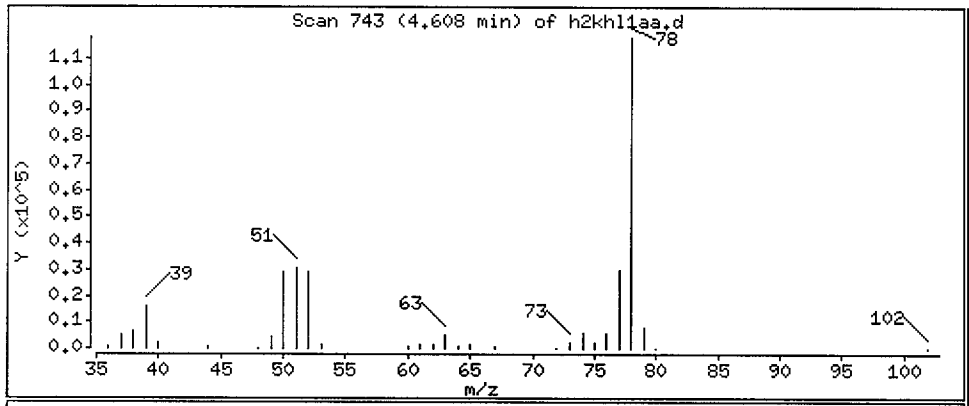
Operator: 22980

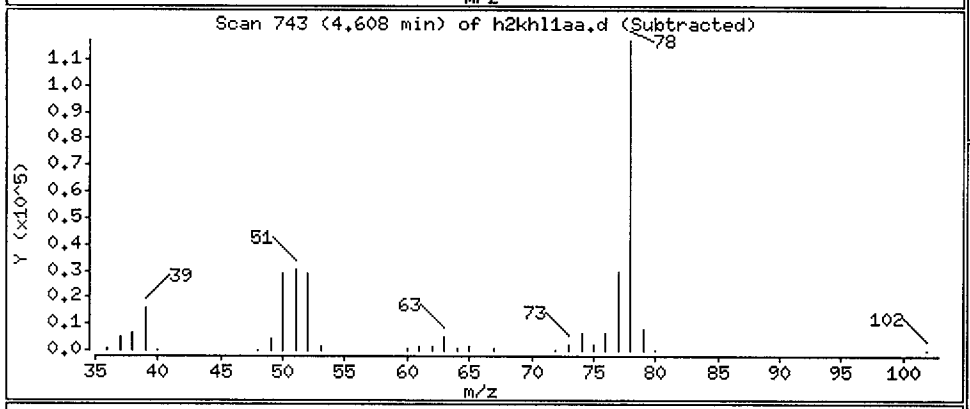
Column phase: J+W 624

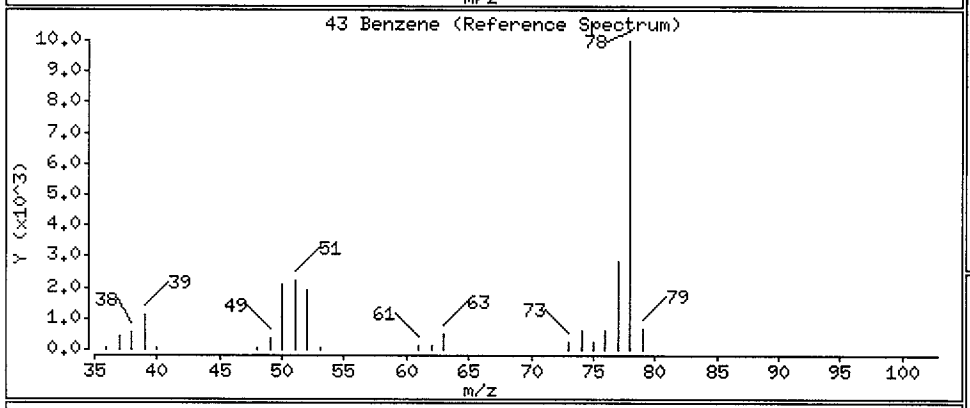
Column diameter: 0.18

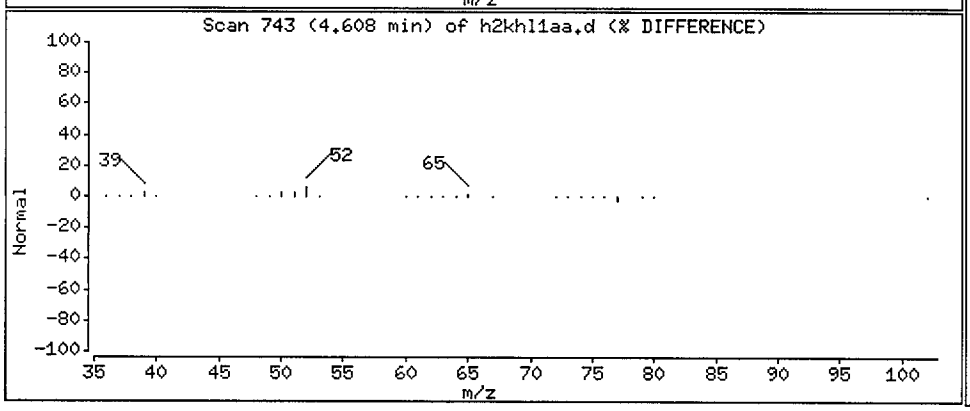
43 Benzene

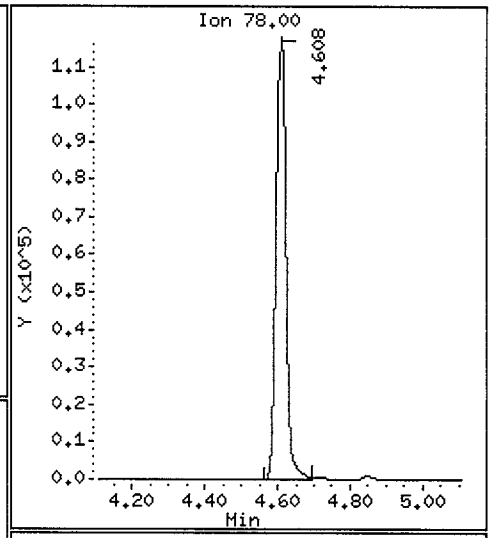
Concentration: 0.053542 ug

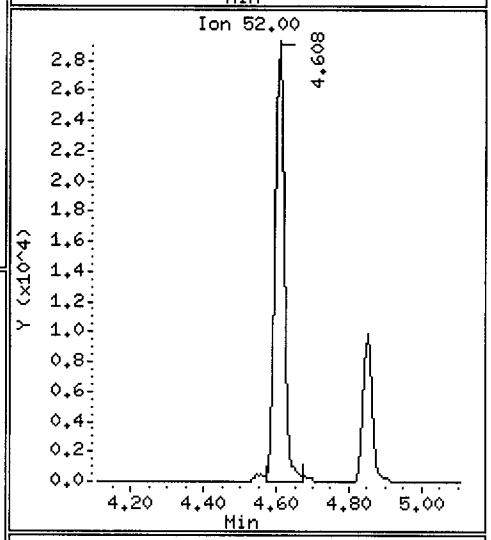


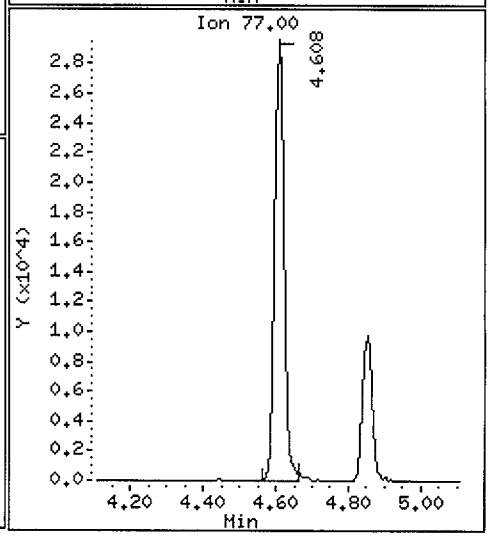












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

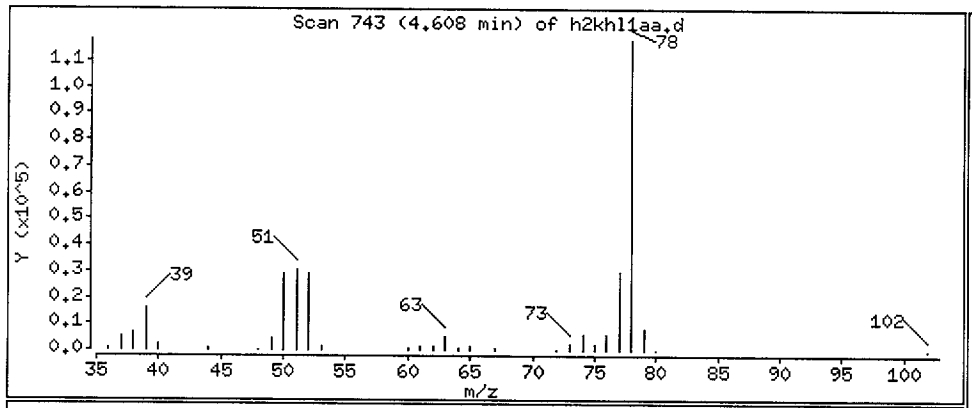
Operator: 22980

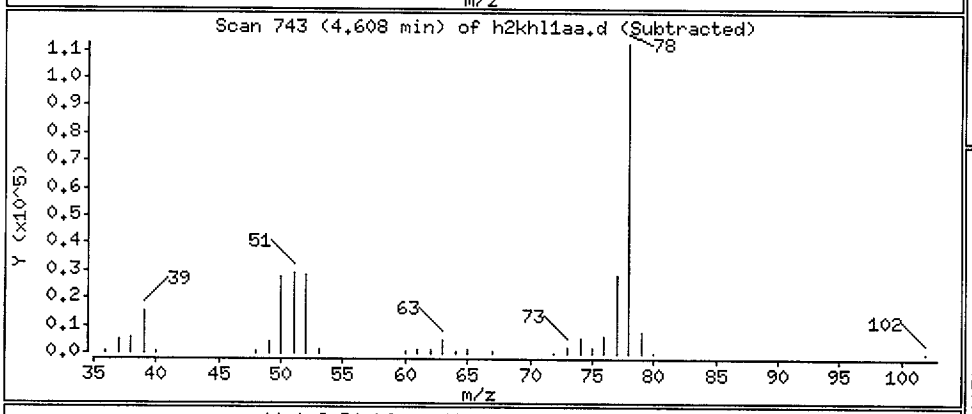
Column phase: J+W 624

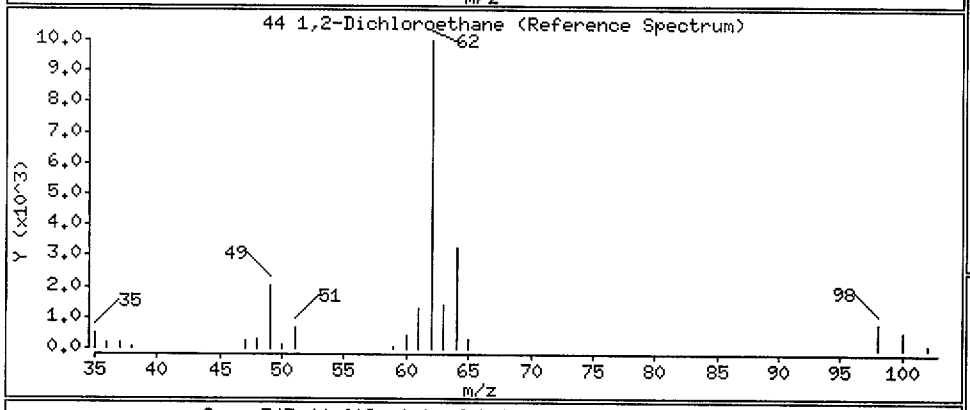
Column diameter: 0.18

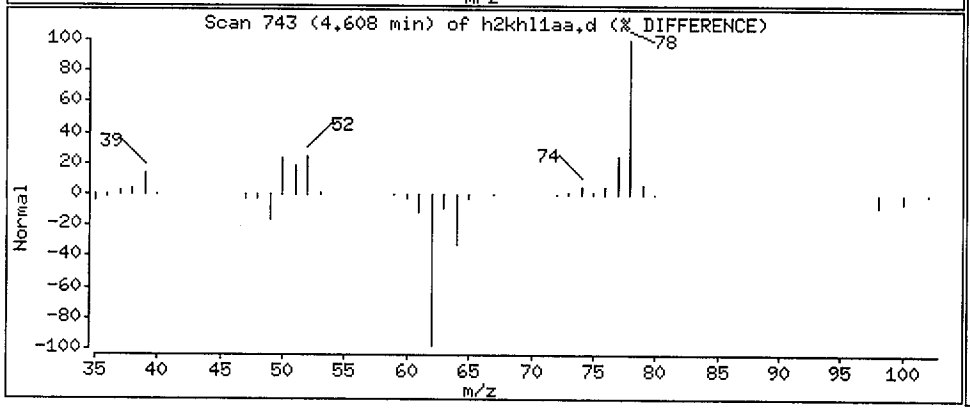
44 1,2-Dichloroethane

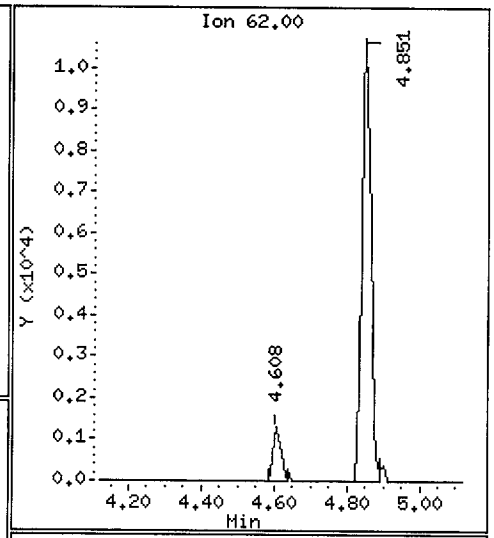
Concentration: 0.0028351 ug

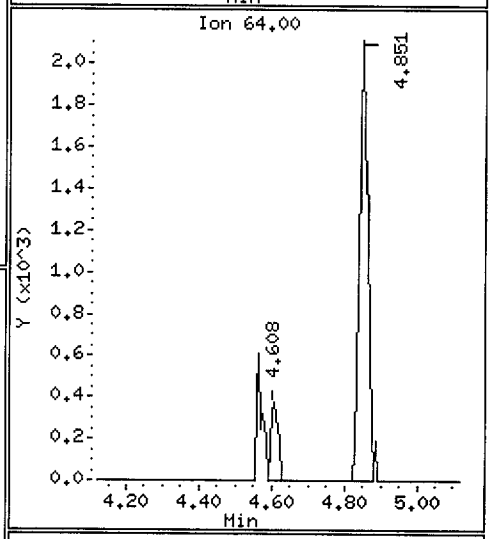


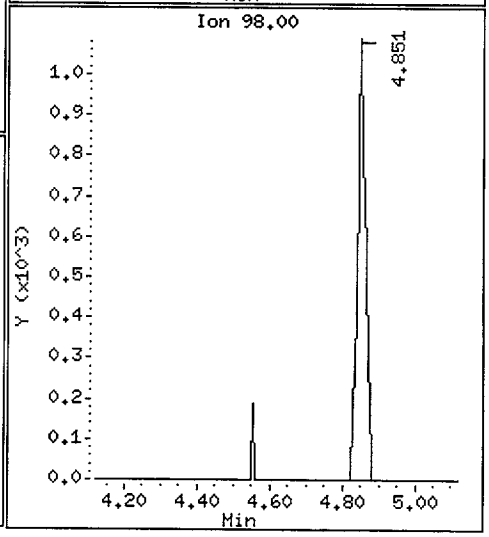












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

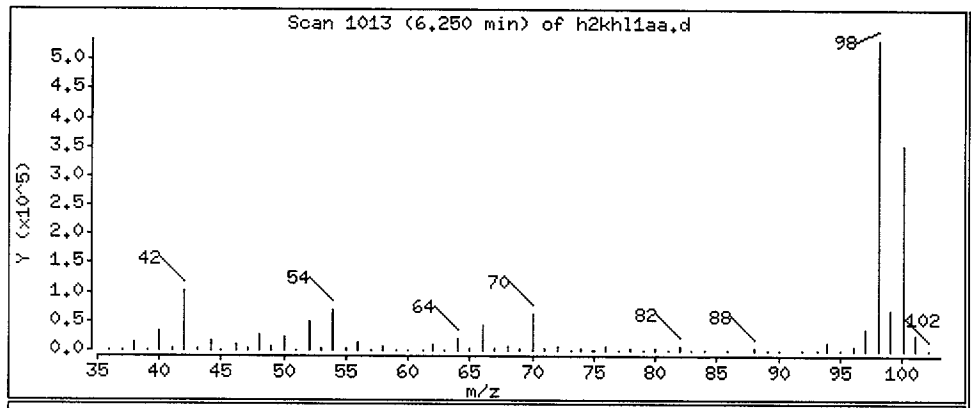
Operator: 22980

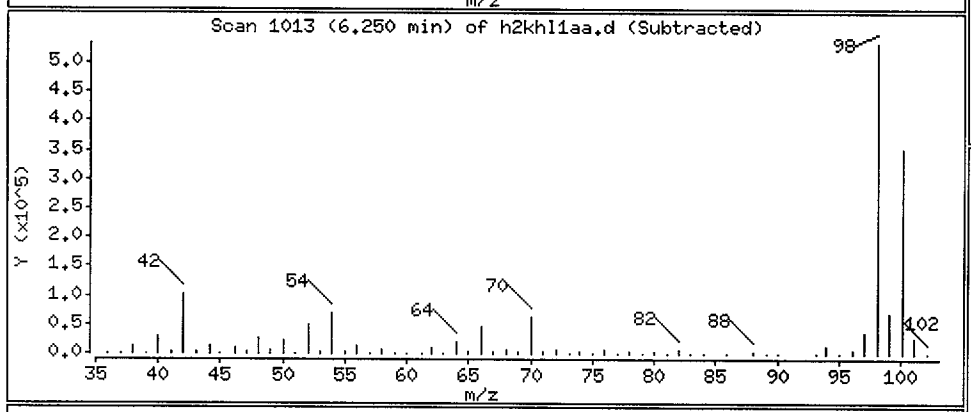
Column phase: J+W 624

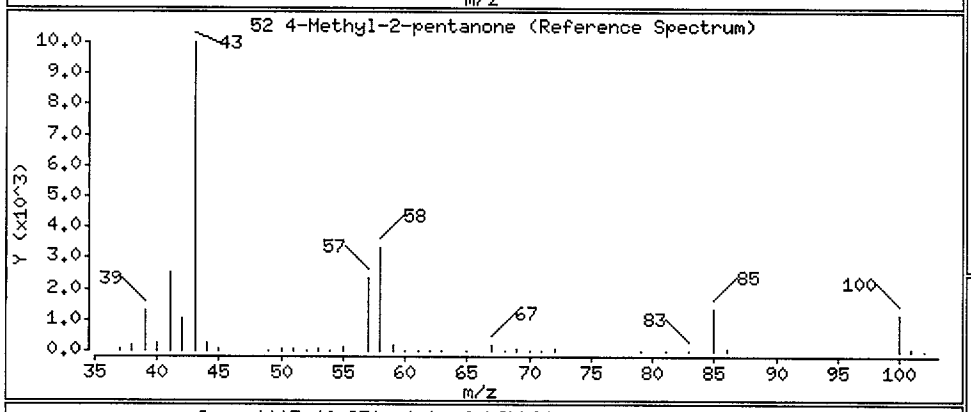
Column diameter: 0.18

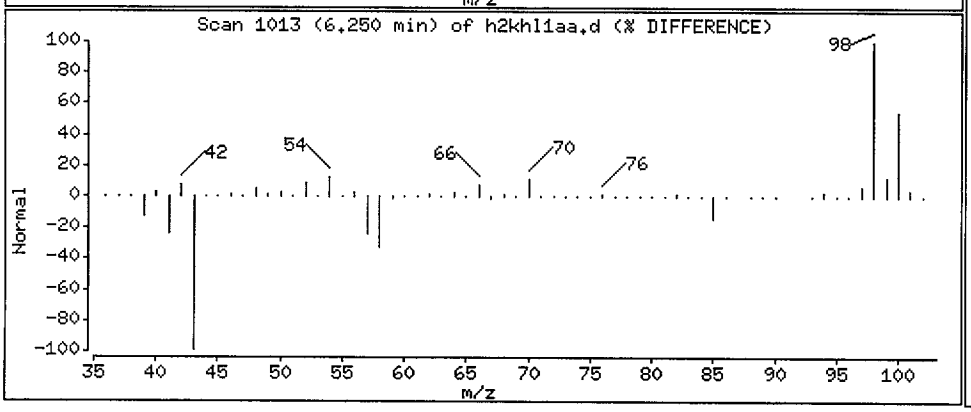
52 4-Methyl-2-pentanone

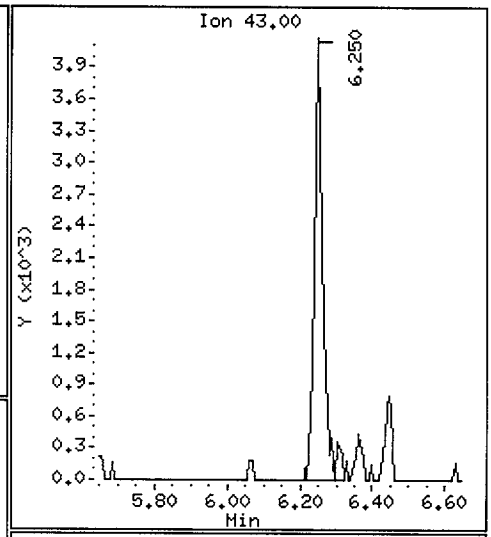
Concentration: 0.032662 ug

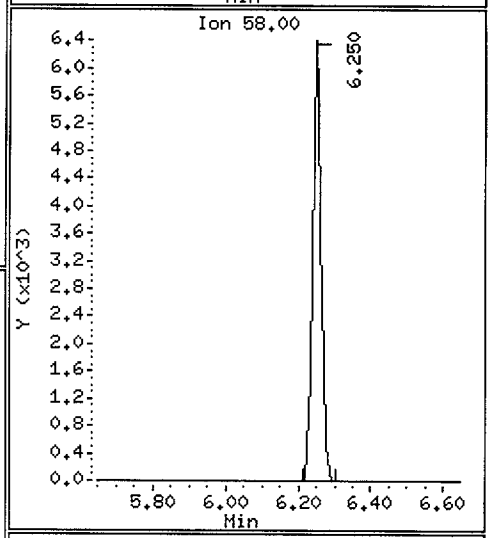


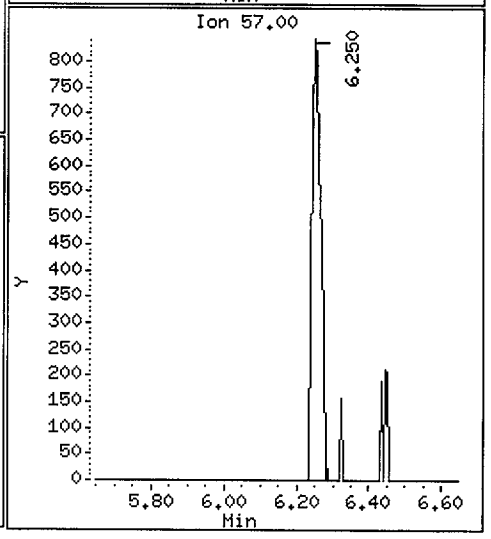












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

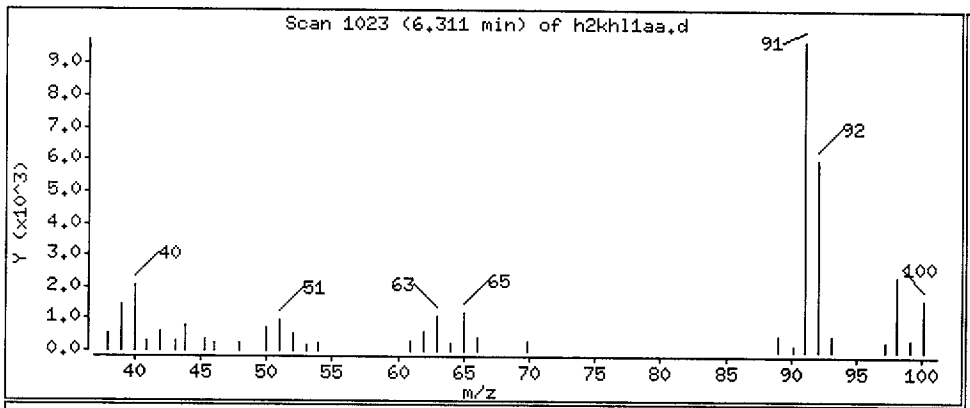
Operator: 22980

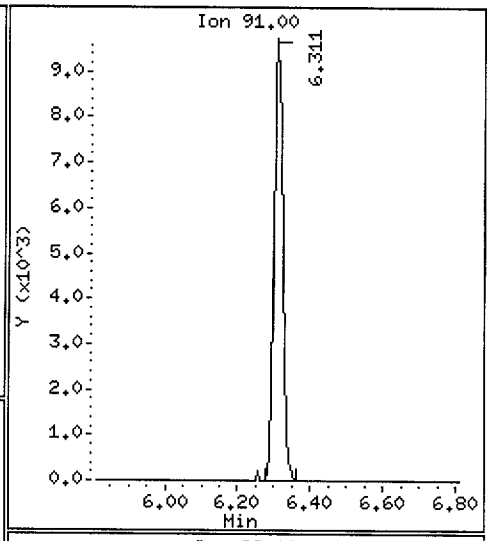
Column phase: J+W 624

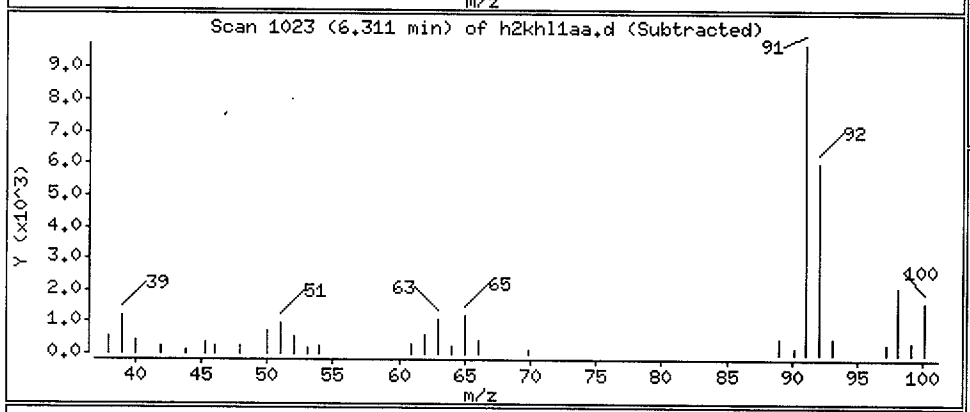
Column diameter: 0.18

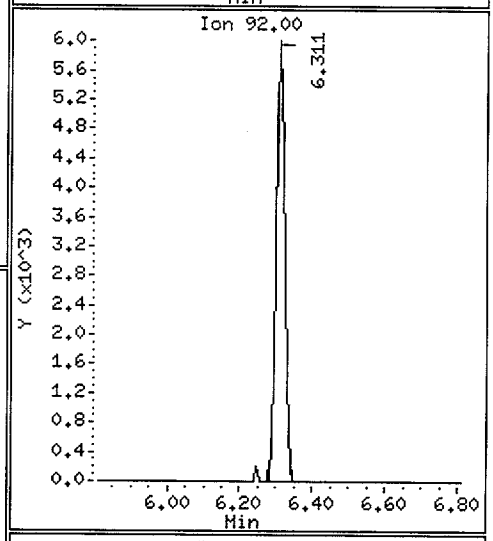
53 Toluene (ccc)

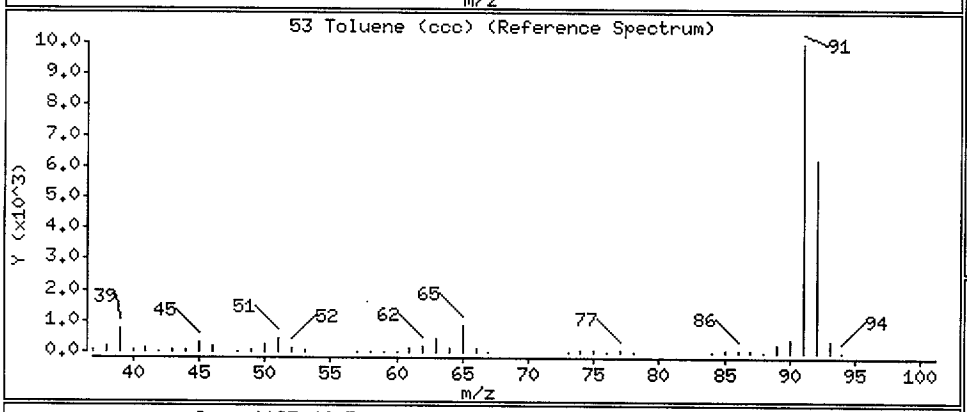
Concentration: 0.0032144 ug

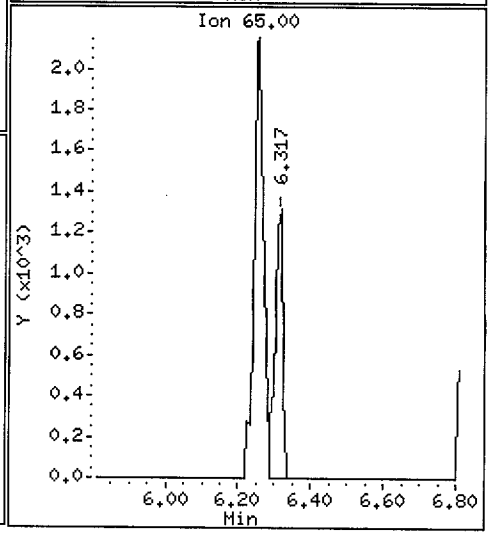


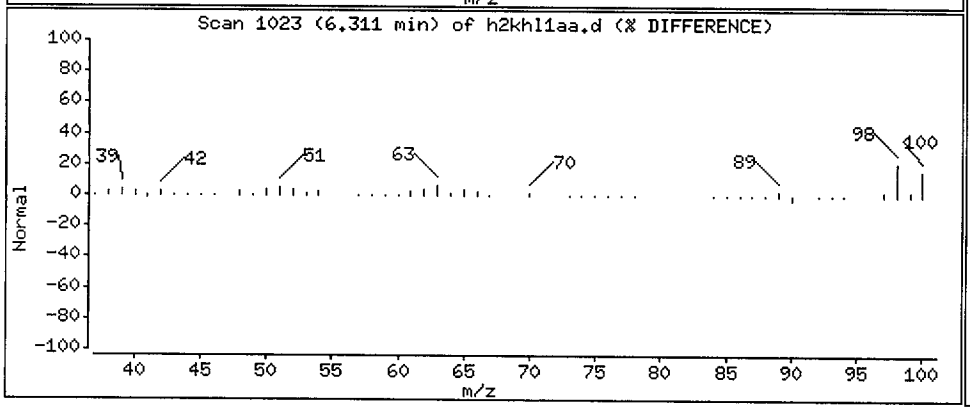












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

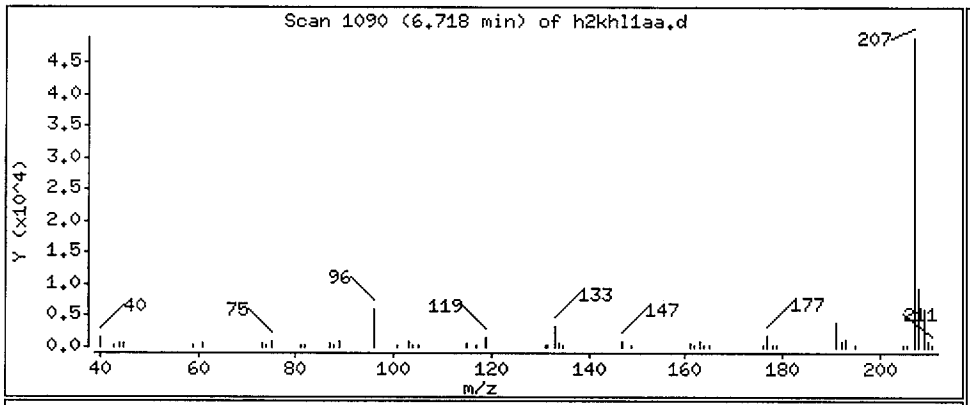
Client ID: AUDIT VOST #1 Instrument: mx.i

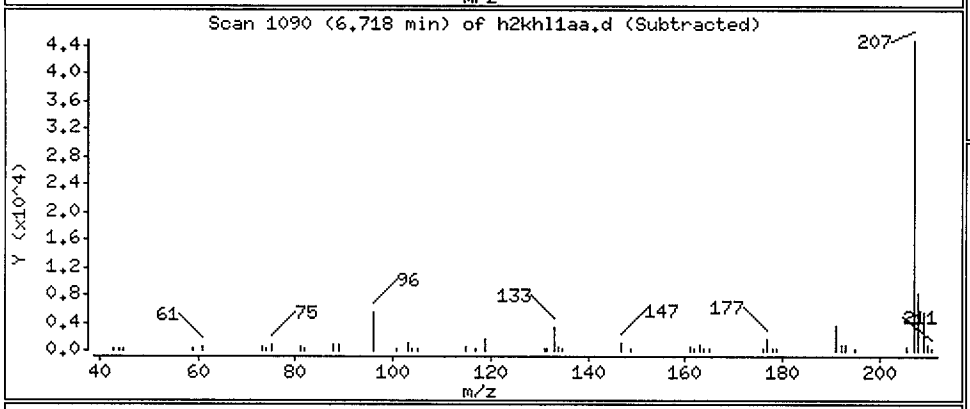
Sample Info: H2KHL1AA,1,0,,,

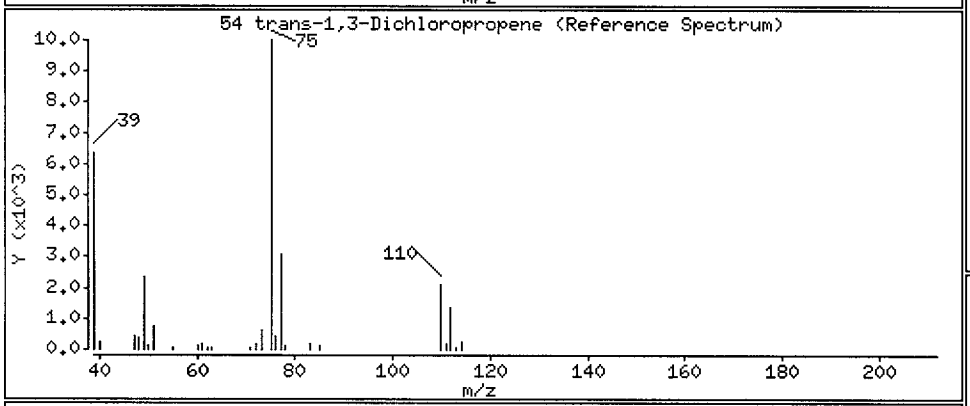
Operator: 22980

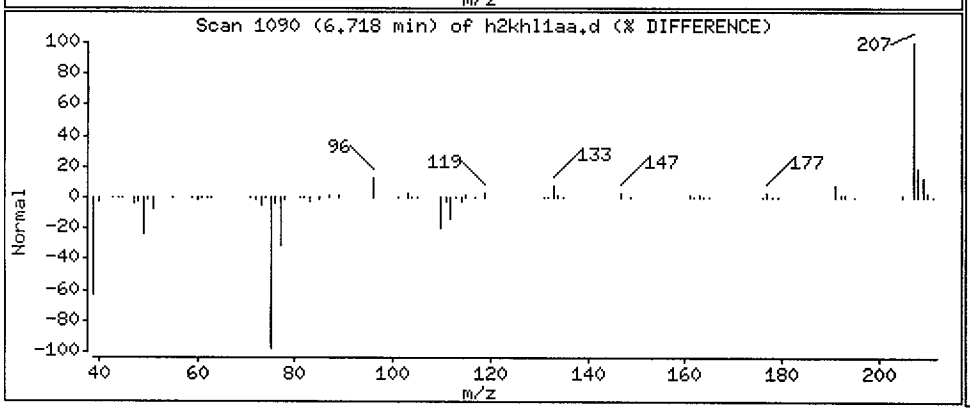
Column phase: J+W 624 Column diameter: 0.18

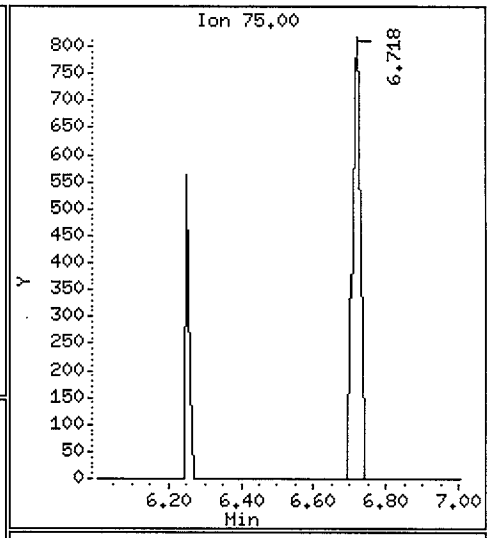
54 trans-1,3-Dichloropropene Concentration: 0.0015768 ug

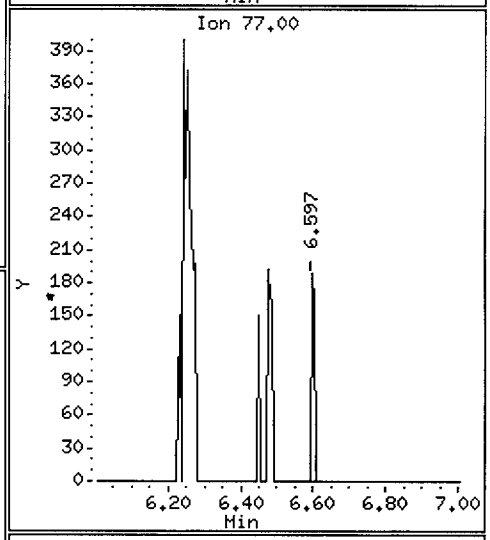


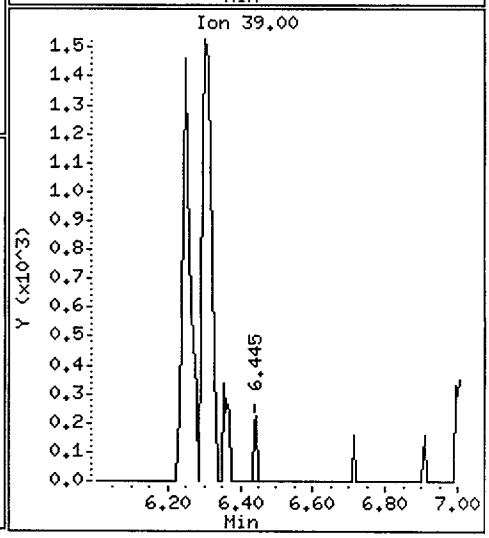












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

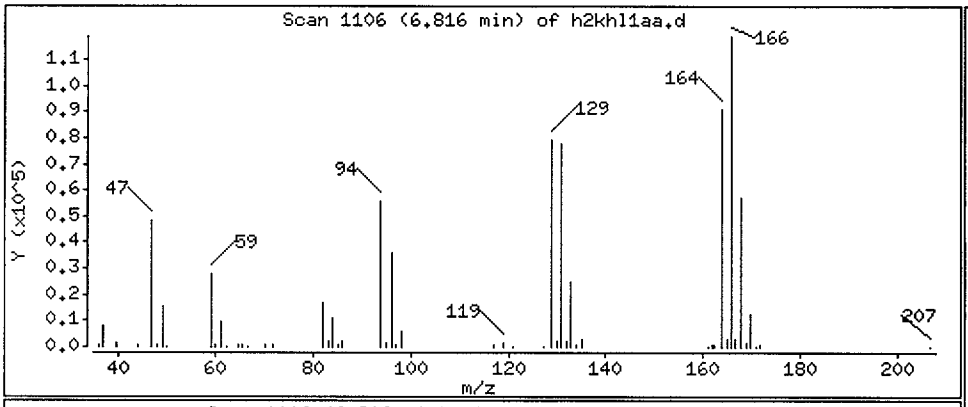
Operator: 22980

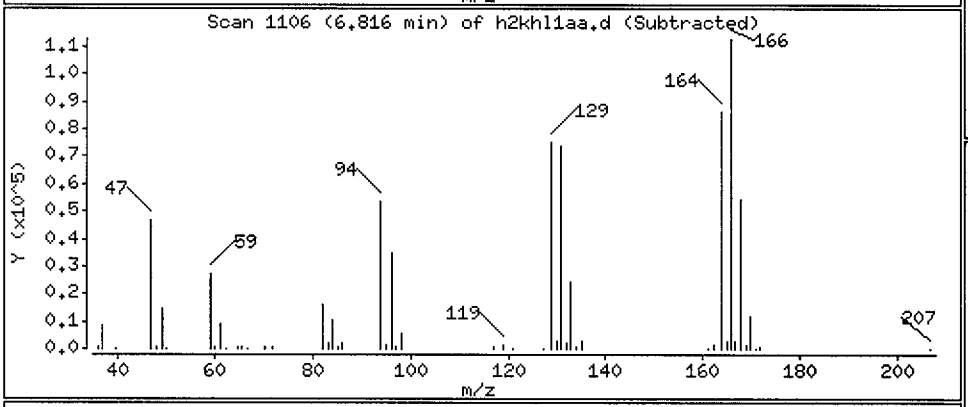
Column phase: J+W 624

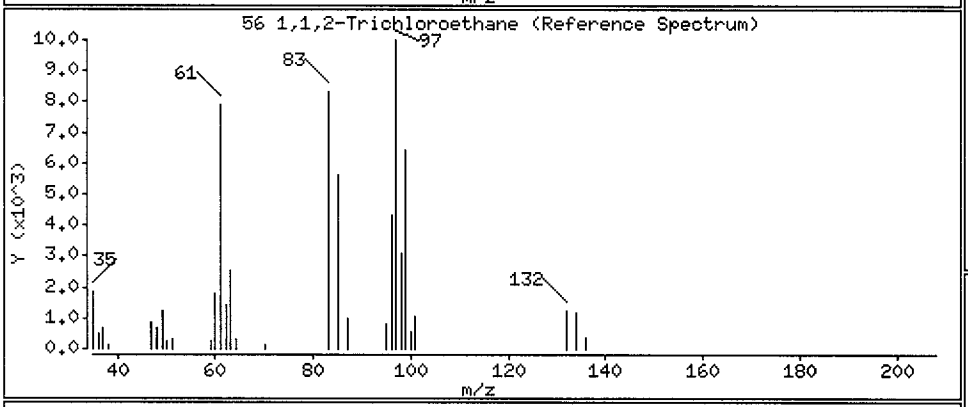
Column diameter: 0.18

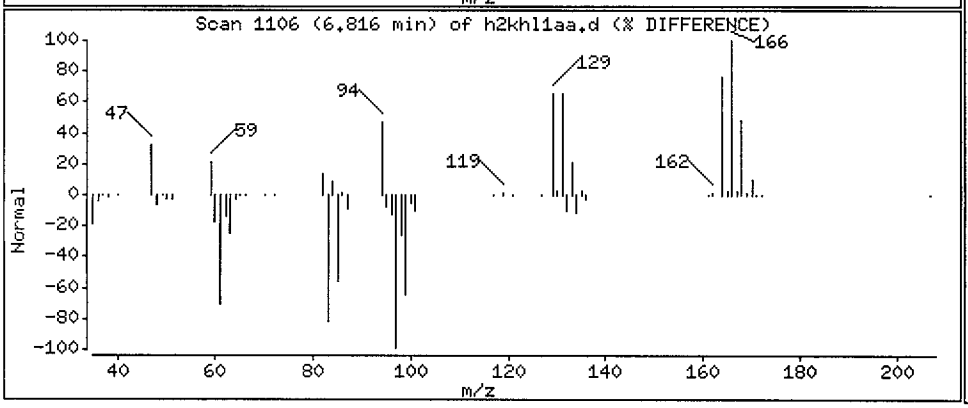
56 1,1,2-Trichloroethane

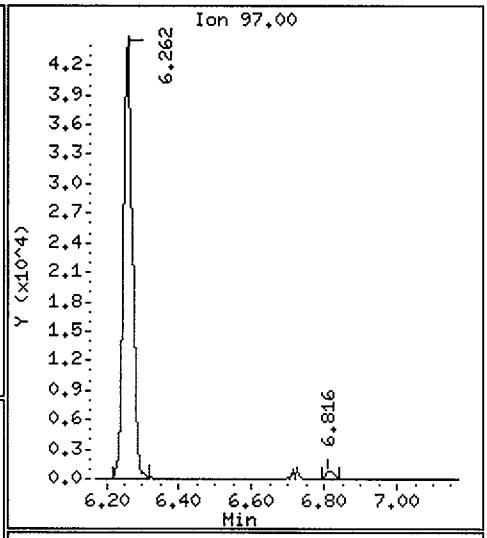
Concentration: 0.0032877 ug

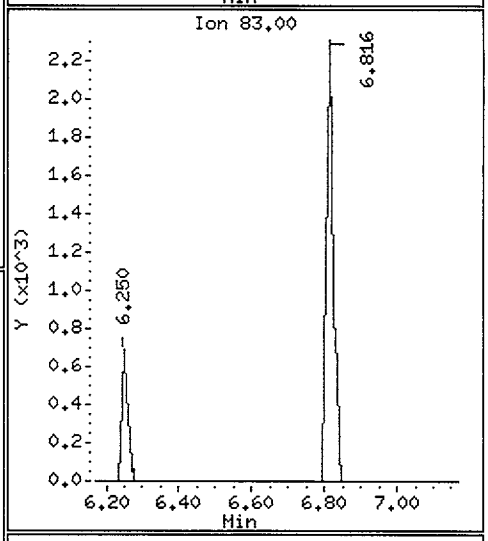


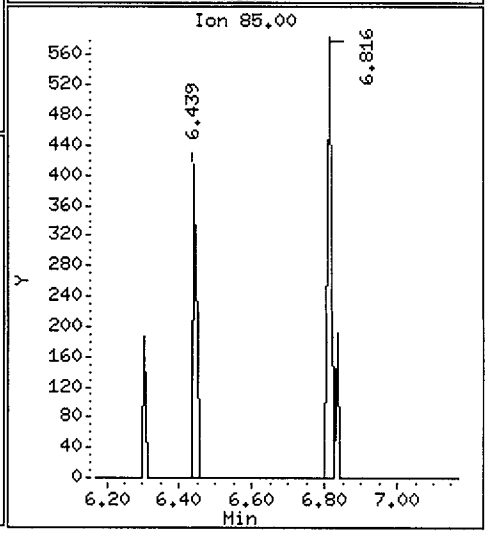












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

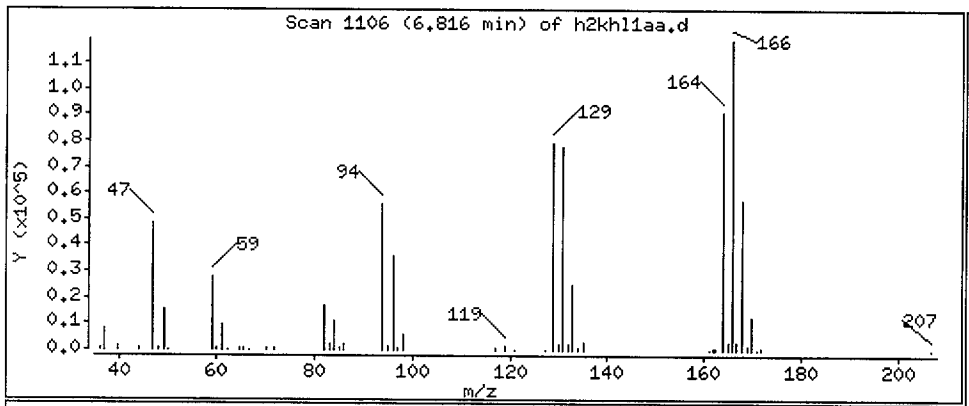
Operator: 22980

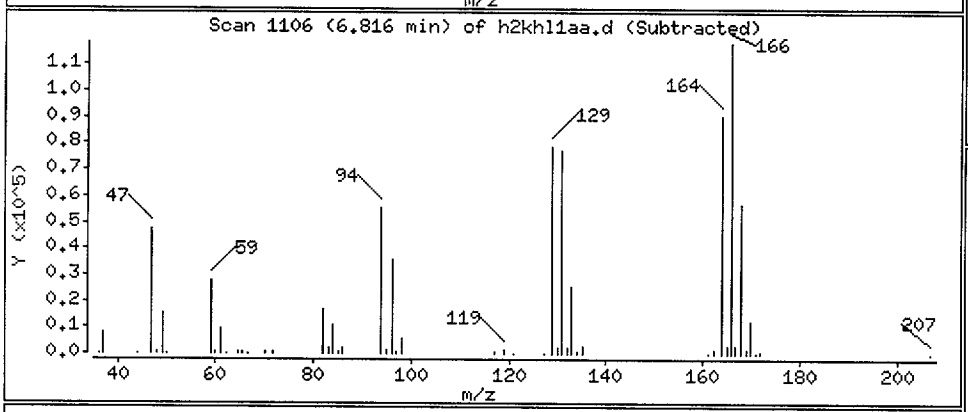
Column phase: J+W 624

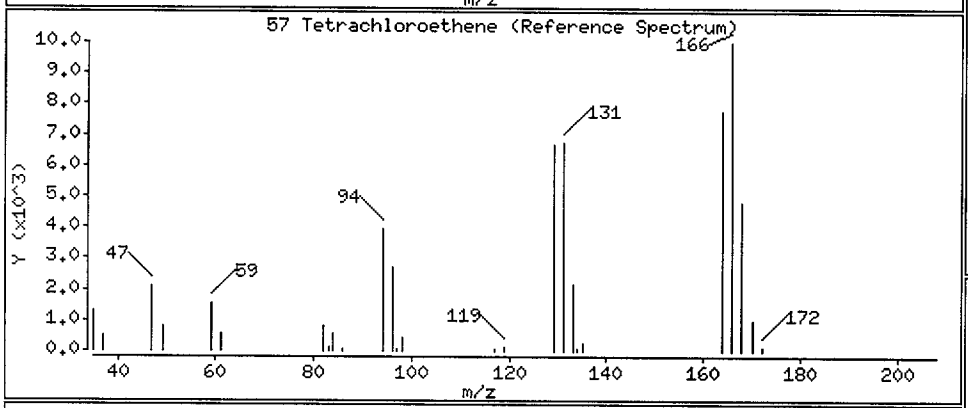
Column diameter: 0.18

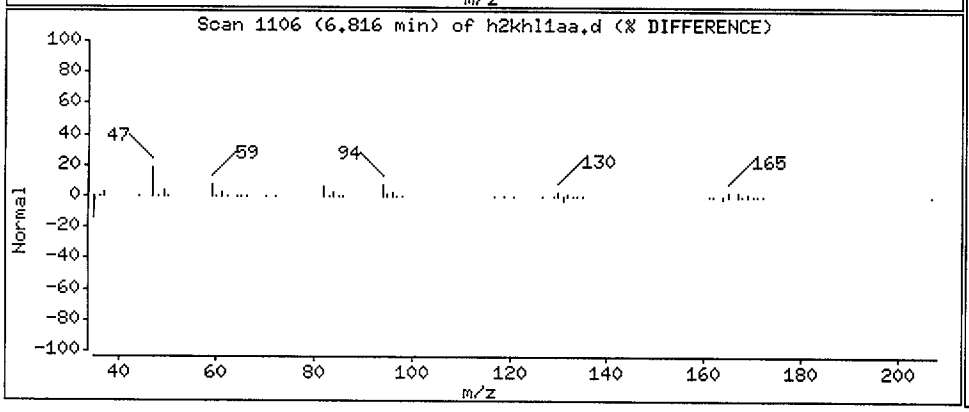
57 Tetrachloroethene

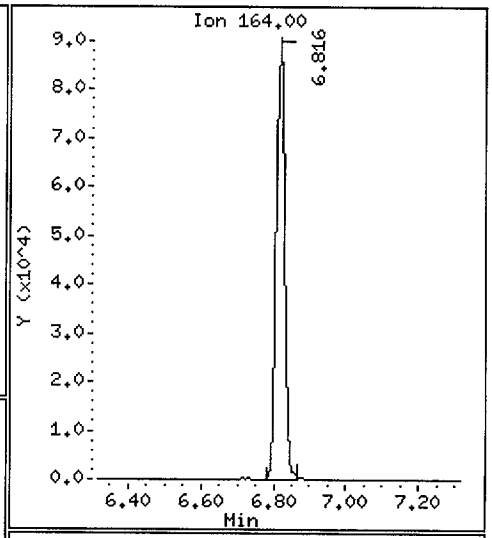
Concentration: 0.13705 ug

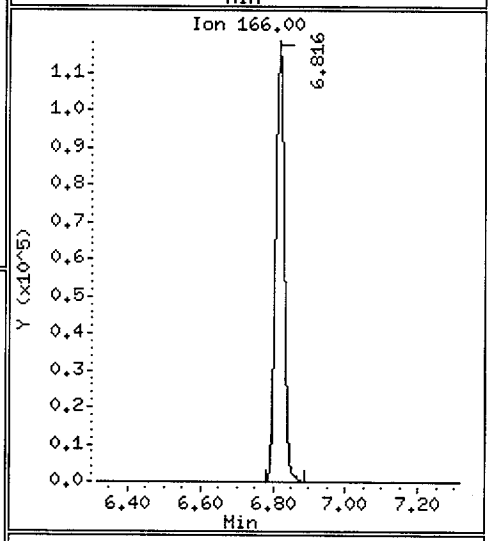


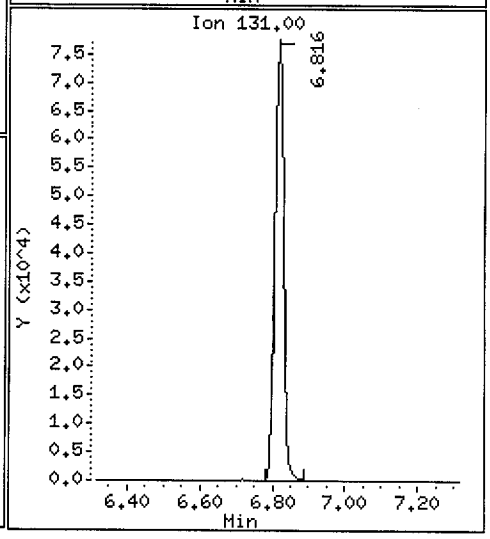












Data File: /chem/gcms/mx.i/X040706.b/h2khl1aa.d

Date : 07-APR-2006 20:14

Client ID: AUDIT VOST #1

Instrument: mx.i

Sample Info: H2KHL1AA,1,0,,,

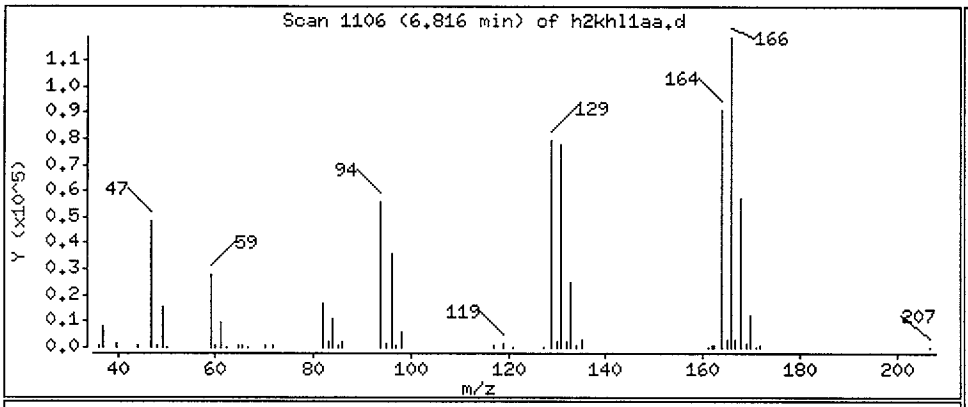
Operator: 22980

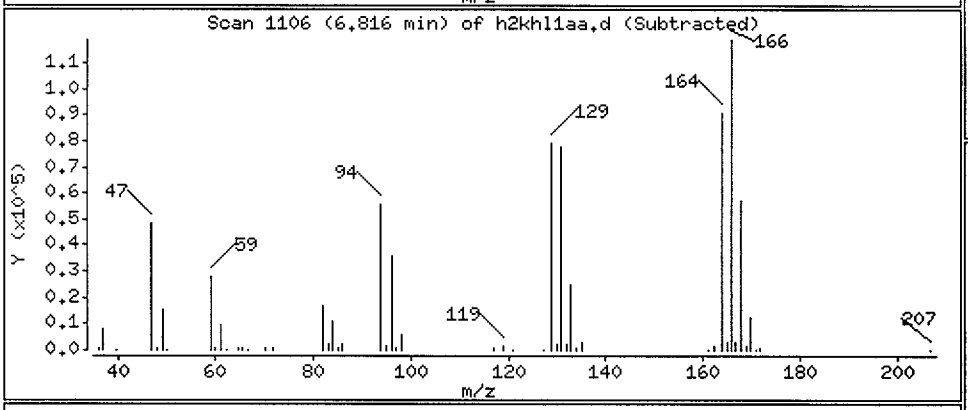
Column phase: J+W 624

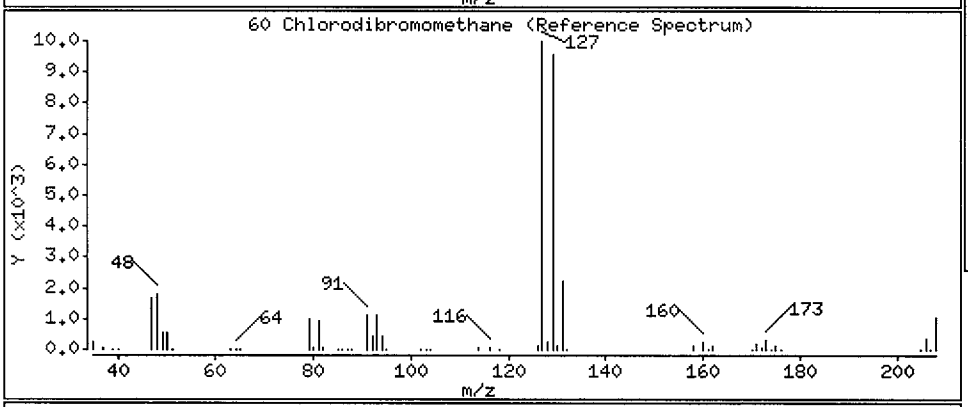
Column diameter: 0.18

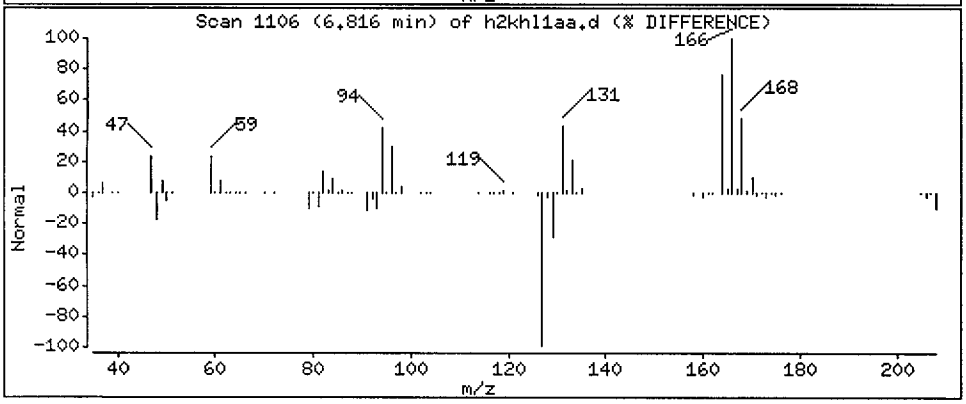
60 Chlorodibromomethane

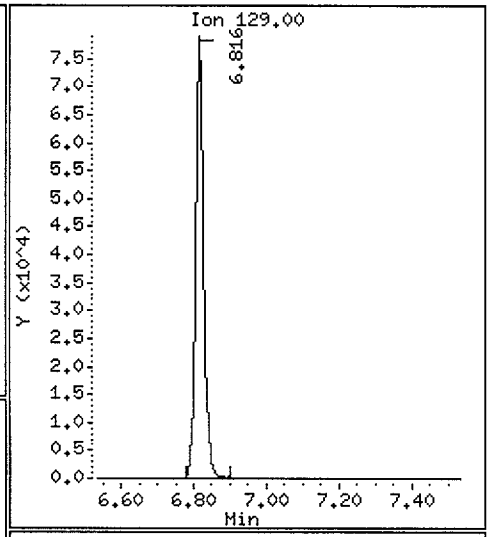
Concentration: 0.27186 ug

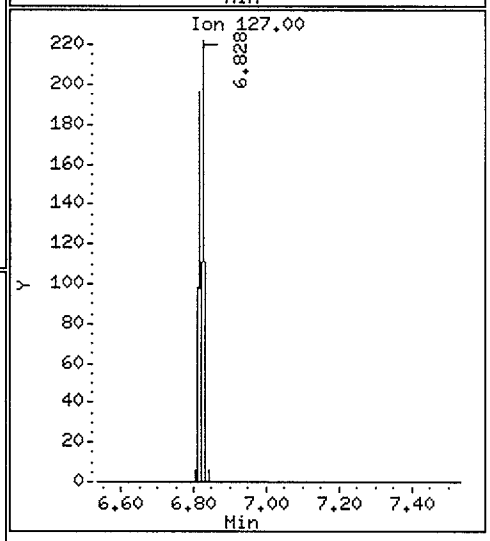












Data File: /var/chem/gcms/mx.i/X040706.b/h2khl1aa.d
Report Date: 18-Apr-2006 14:58

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2khl1aa.d
Lab Smp Id: H2KHL1AA Client Smp ID: AUDIT VOST #1
Inj Date : 07-APR-2006 20:14
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHL1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #...: H6D030169-040 **Work Order #...:** H2KHR1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.39**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.058**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.091 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.046**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.074**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #...: H6D030169-040 **Work Order #...:** H2KHR1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.077**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0035 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	87	(50 - 134)
Toluene-d8	88	(57 - 127)
Bromofluorobenzene	78	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #: H6D030169-040 **Work Order #:** H2KHR1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Report Date: 19-Apr-2006 08:29

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Lab Smp Id: H2KHR1AA Client Smp ID: AUDIT VOST #2
Inj Date : 07-APR-2006 19:49
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHR1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 19-Apr-2006 08:29 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1012380	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	198191	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	212719	10.0000	
$ 4 Dibromofluoromethane	113	4.274	4.273	(0.881)	145767	8.46866	0.21172
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	116885	8.71174	0.21779
$ 6 Toluene-d8	98	6.251	6.250	(0.824)	850477	8.76466	0.21912
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	195987	7.77070	0.19427
11 Chloromethane (spcc)	50	1.256	1.262	(0.259)	2433	0.05160	0.0012900
21 Acetone	43	2.382	2.381	(0.491)	22182	15.4702	0.38675
23 Carbon Disulfide	76	2.497	2.497	(0.515)	49079	0.63612	0.015903
26 Methylene Chloride	84	2.747	2.746	(0.566)	48044	3.06950	0.076738
33 *Vinyl Acetate	86	3.252	3.421	(0.670)	1368	1.18791	~~0.029698~~
36 2-Butanone	43	3.878	3.871	(0.799)	8110	3.62649	0.090662
38 *THF	42	4.140	4.109	(0.853)	1420	1.03675	0.025919
39 Chloroform (ccc)	83	4.140	4.139	(0.853)	113644	2.95351	0.073838
41 Carbon Tetrachloride	117	4.438	4.437	(0.915)	66557	1.83142	0.045785
42 1,1-Dichloropropene	75	4.602	4.437	(0.949)	3954	0.09866	0.0024664
43 Benzene	78	4.608	4.607	(0.950)	239130	2.33230	0.058308
44 1,2-Dichloroethane	62	4.614	4.620	(0.951)	2451	0.14210	~~0.0035524~~
52 4-Methyl-2-pentanone	43	6.251	6.147	(1.288)	6826	1.27454	~~0.031863~~

CMAC 4/19/06 CH

Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Report Date: 19-Apr-2006 08:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
53 Toluene (ccc)	91	6.312	6.311	(0.832)	16080	0.13852	0.0034629
54 trans-1,3-Dichloropropene	75	6.719	6.506	(0.886)	2582	0.12690	~~0.0031725~~
56 1,1,2-Trichloroethane	97	6.719	6.670	(0.886)	1122	0.12243	~~0.0030608~~
57 Tetrachloroethene	164	6.817	6.816	(0.899)	156859	6.28842	0.15721
60 Chlorodibromomethane	129	6.817	7.035	(0.899)	141873	12.4866	~~0.31217~~
62 Chlorobenzene (spcc)	112	7.613	7.607	(1.004)	2698	0.04529	0.0011322

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Report Date: 19-Apr-2006 08:29

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2khr1aa.d
Lab Smp Id: H2KHR1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: AUDIT VOST #2
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1012380	-11.90
2 Chlorobenzene-d5	214194	107097	428388	198191	-7.47
3 1,4 Dichlorobenze	242601	121300	485202	212719	-12.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

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.

Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Report Date: 19-Apr-2006 08:29

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030169
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H2KHR1AA
Client Smp ID: AUDIT VOST #2
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

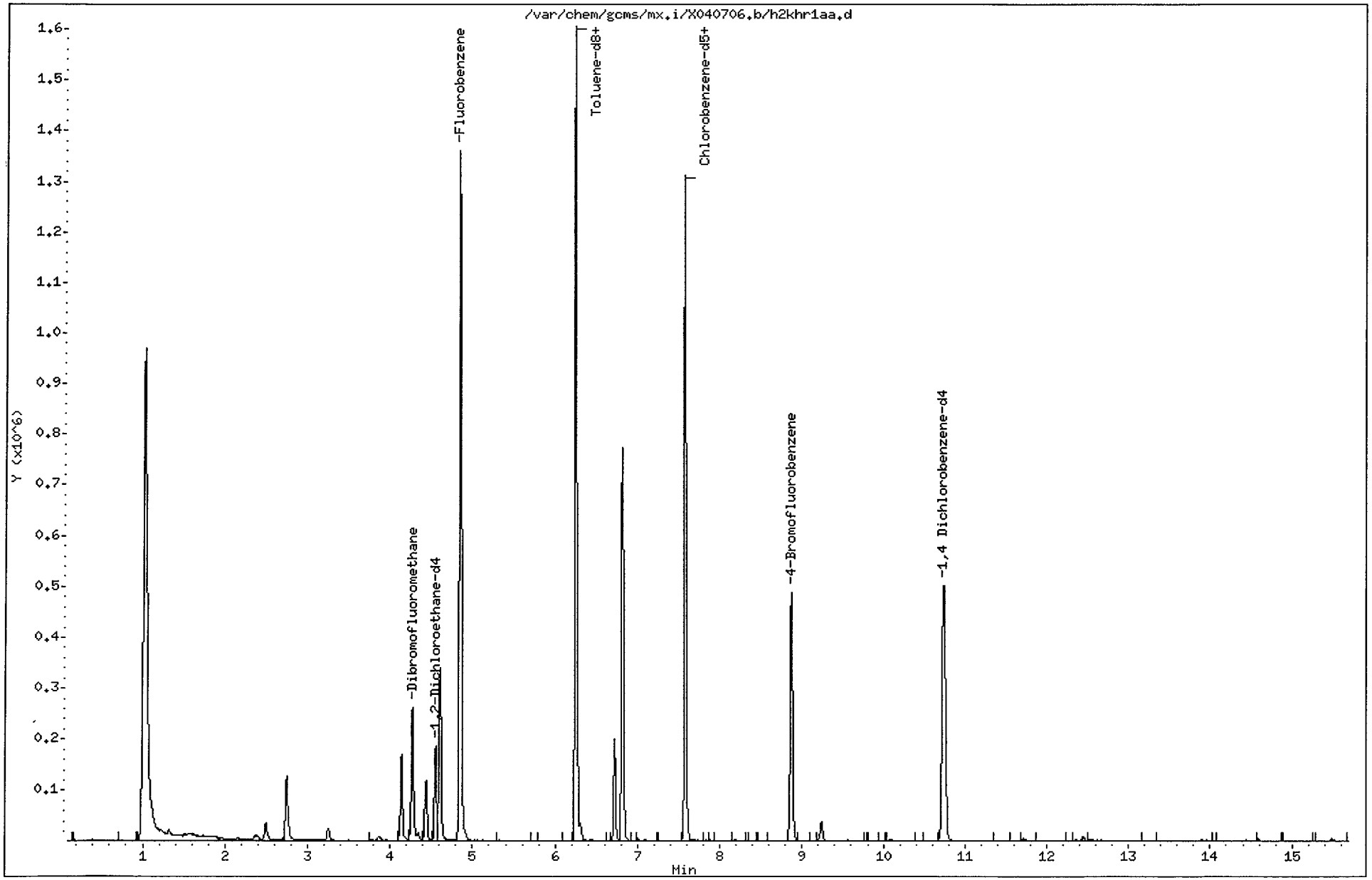
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.21172	84.69	50-150
$ 5 1,2-Dichloroethane	0.25000	0.21779	87.12	50-150
$ 6 Toluene-d8	0.25000	0.21912	87.65	50-150
$ 7 4-Bromofluorobenze	0.25000	0.19427	77.71	50-150

Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Date : 07-APR-2006 19:49
Client ID: AUDIT VOST #2
Sample Info: H2KHR1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

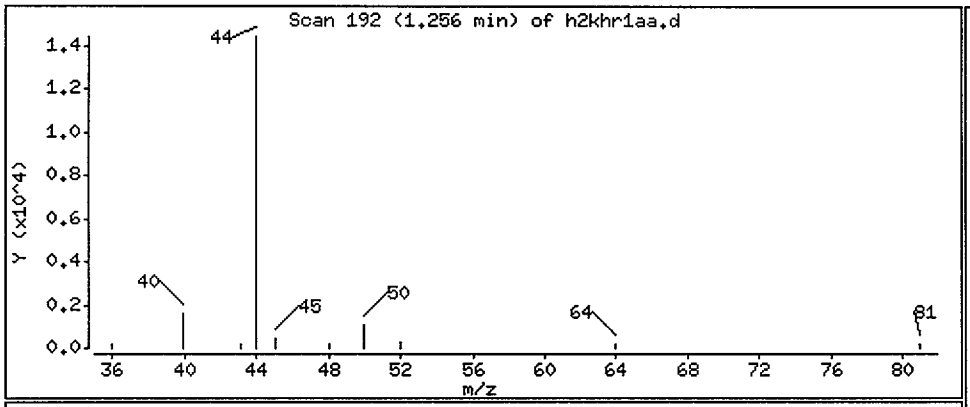
Client ID: AUDIT VOST #2 Instrument: mx.i

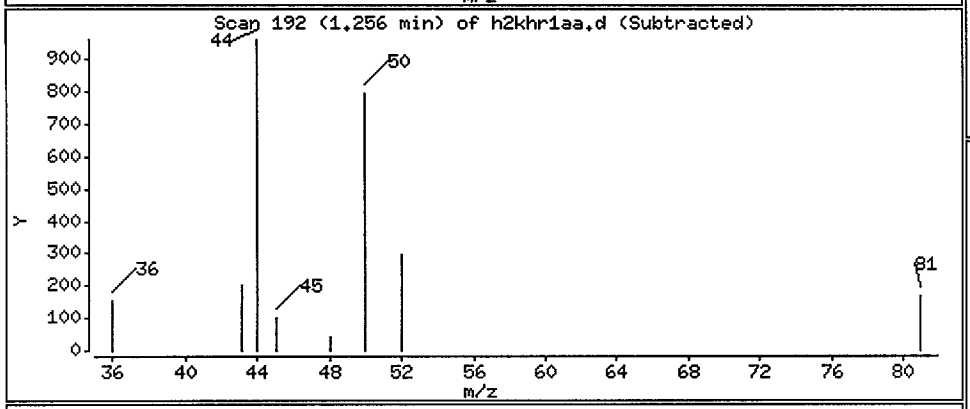
Sample Info: H2KHR1AA,1,0,,,

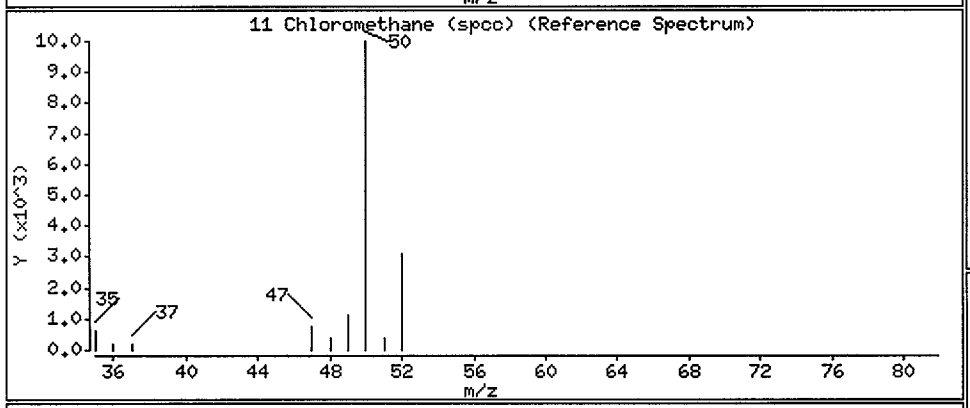
Operator: 22980

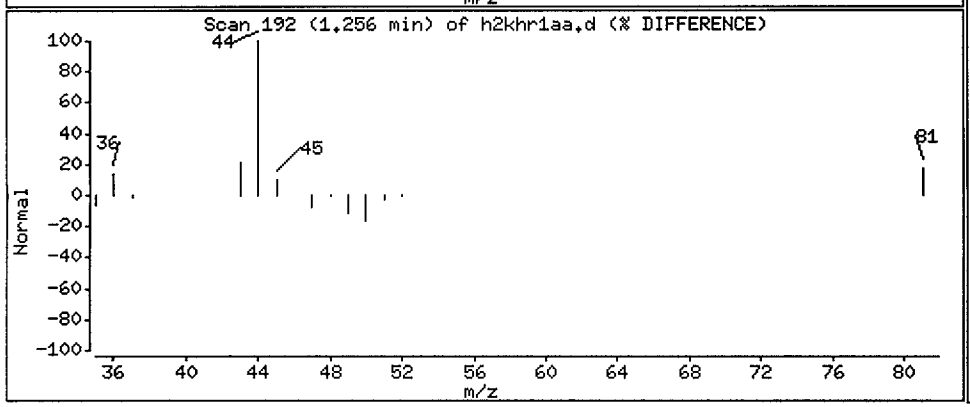
Column phase: J+W 624 Column diameter: 0.18

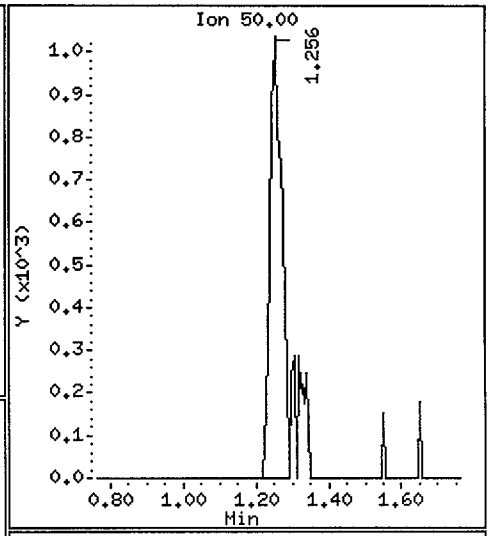
11 Chloromethane (spcc) Concentration: 0.0012900 ug

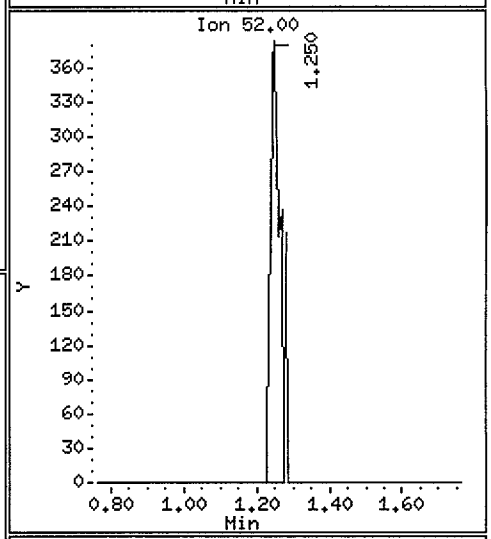


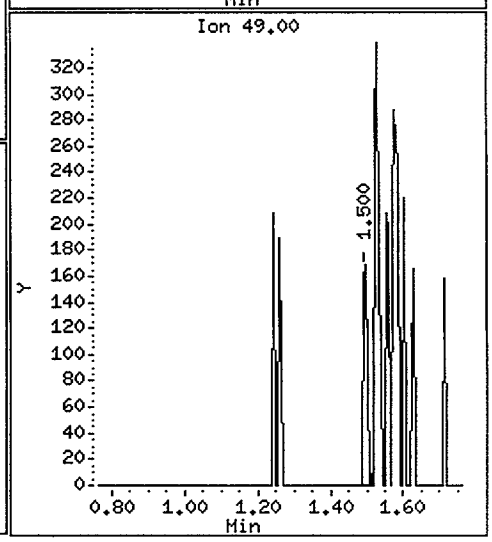












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

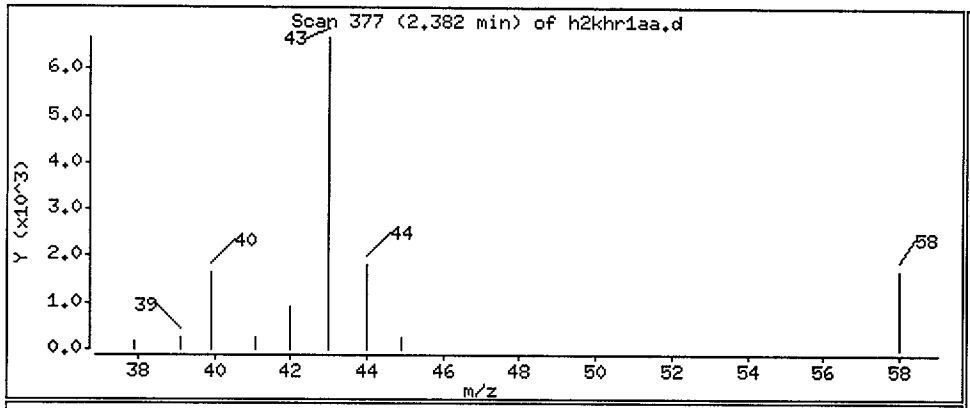
Operator: 22980

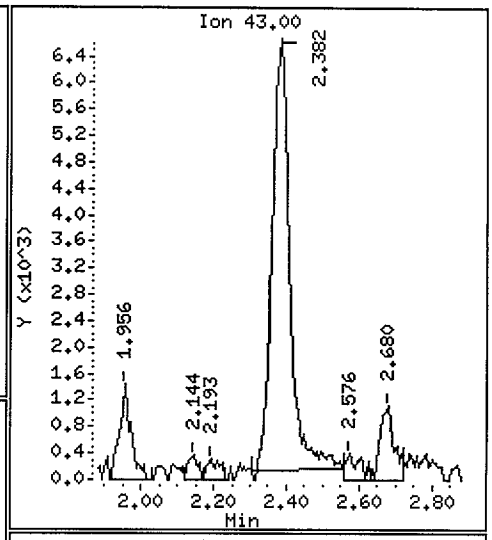
Column phase: J+W 624

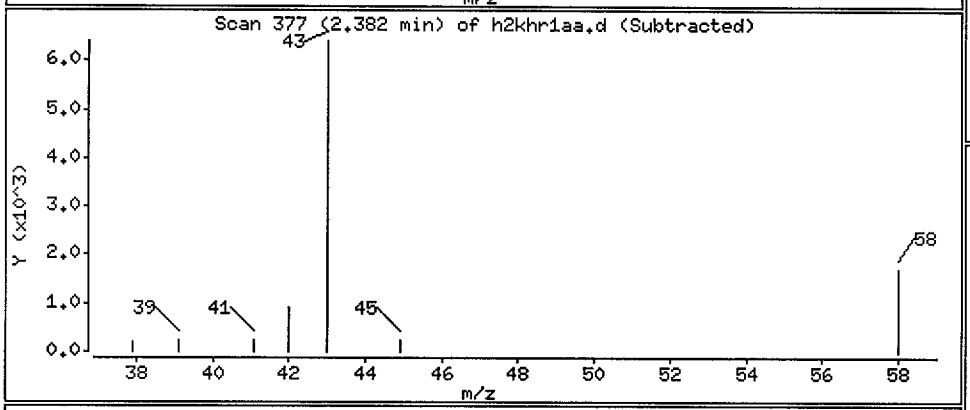
Column diameter: 0.18

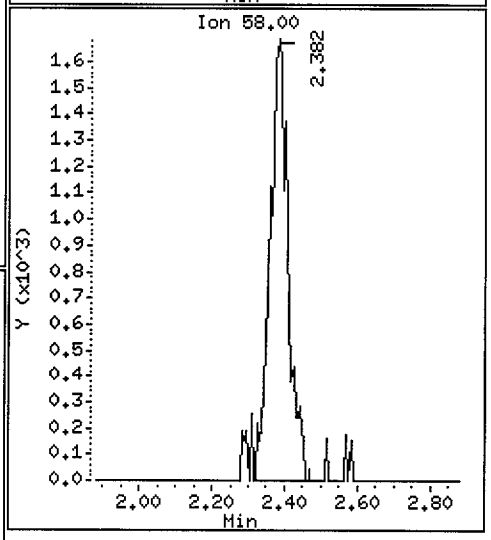
21 Acetone

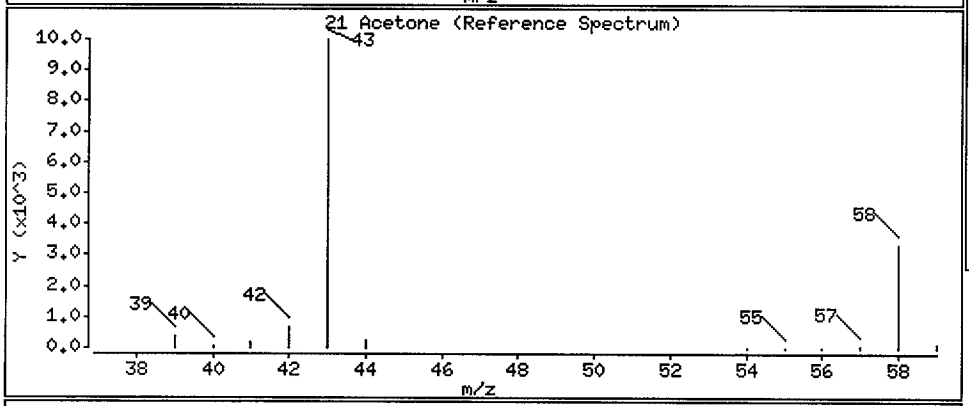
Concentration: 0.38675 ug

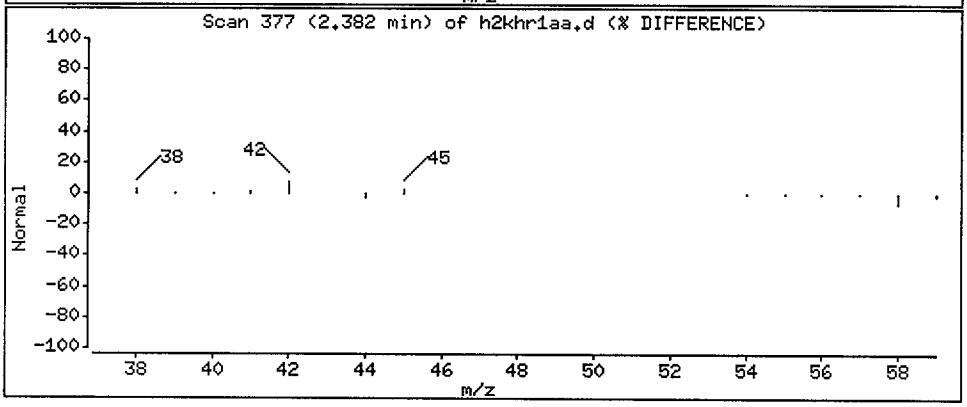












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

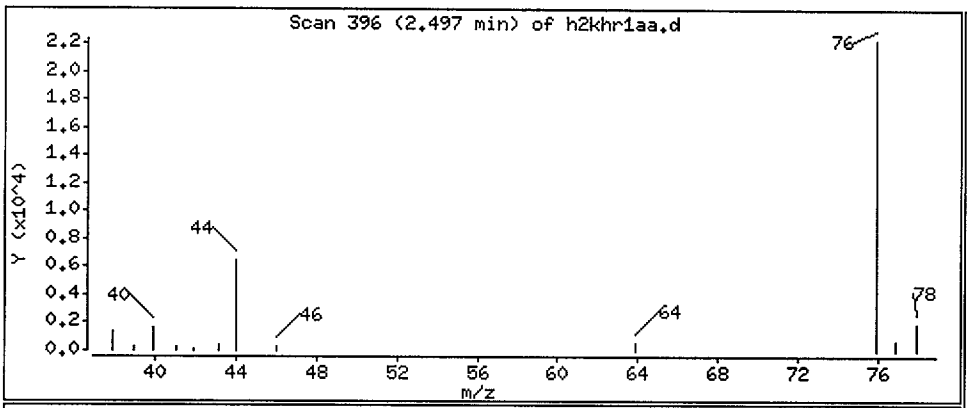
Operator: 22980

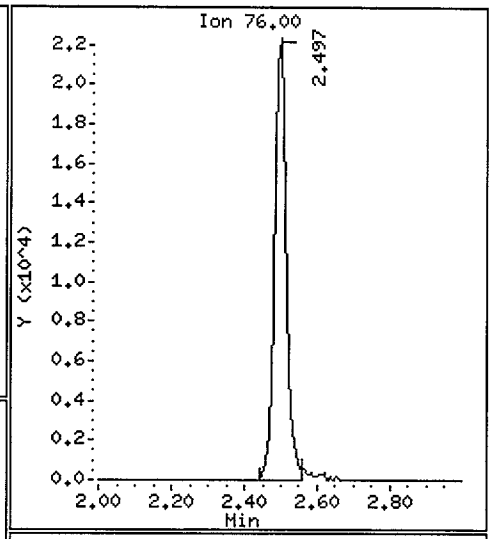
Column phase: J+W 624

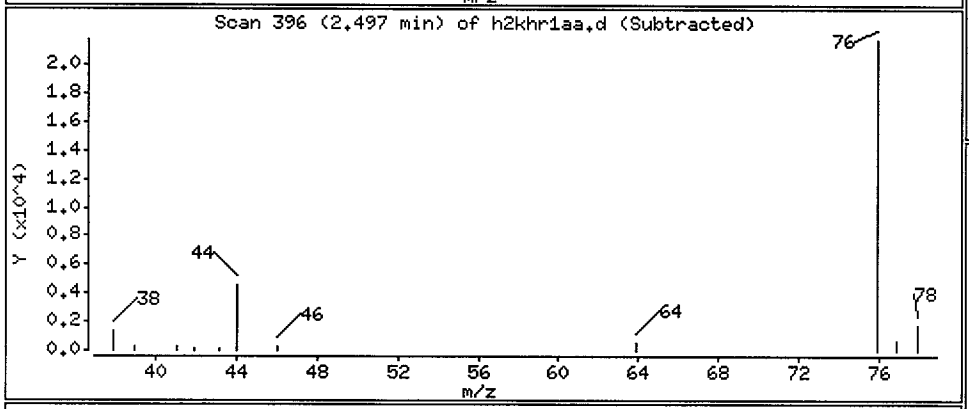
Column diameter: 0.18

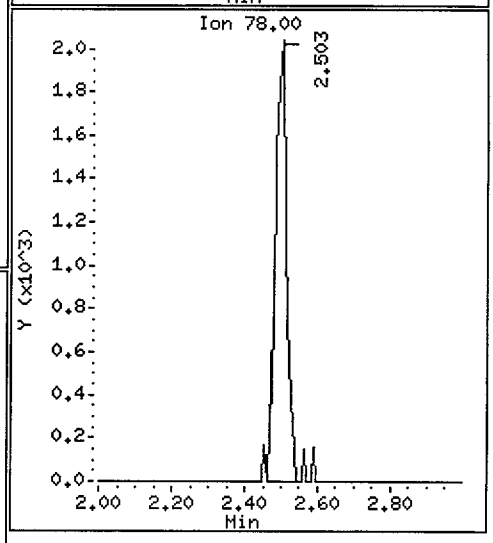
23 Carbon Disulfide

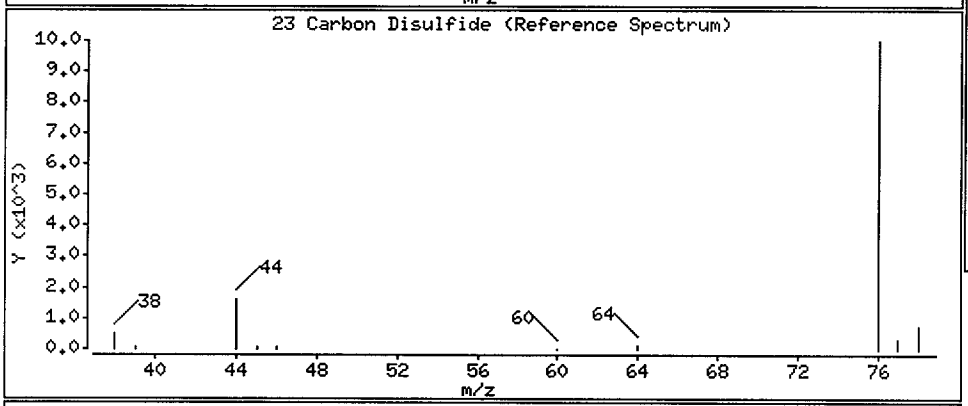
Concentration: 0.015903 ug

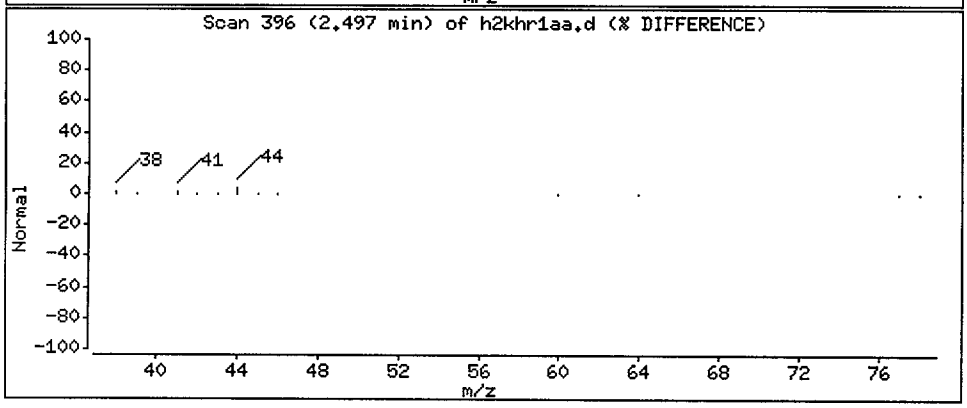












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

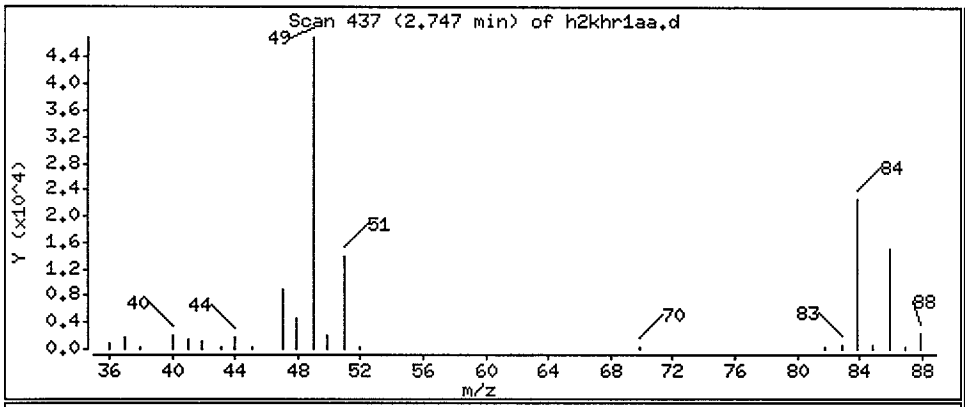
Operator: 22980

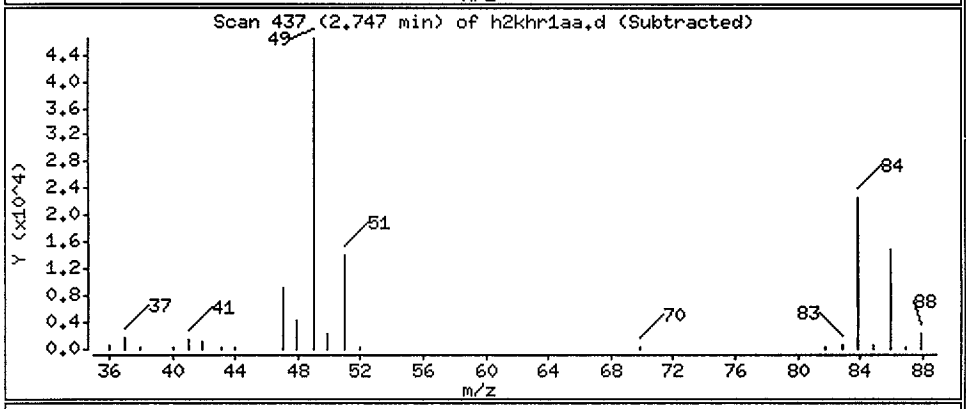
Column phase: J+W 624

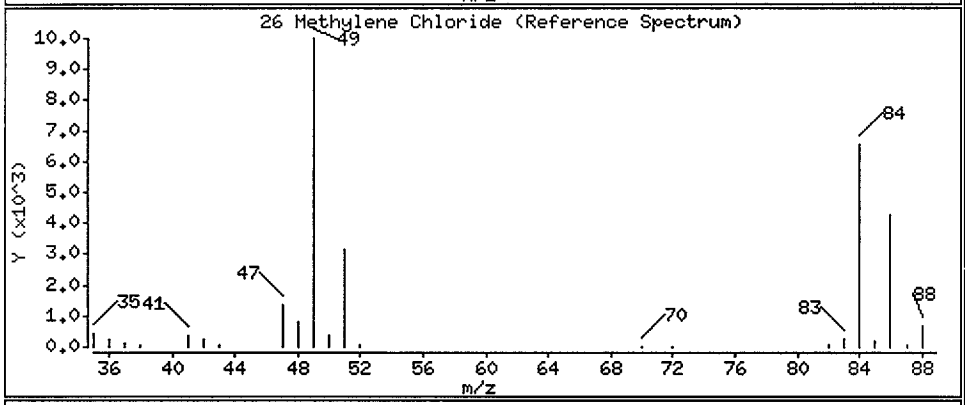
Column diameter: 0.18

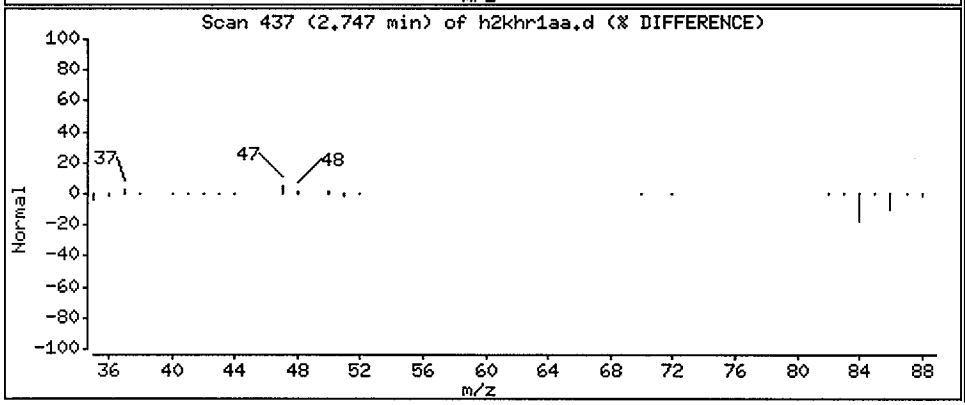
26 Methylene Chloride

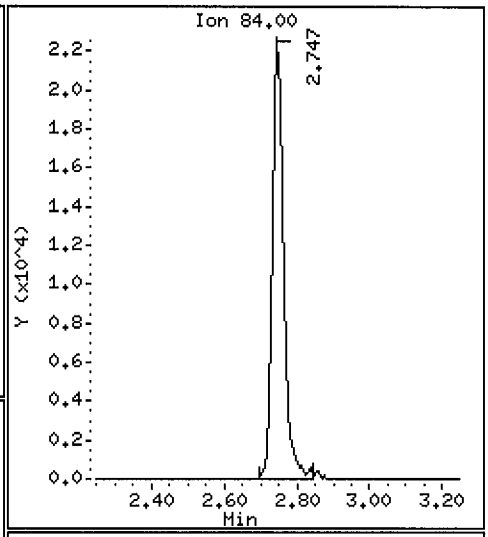
Concentration: 0.076738 ug

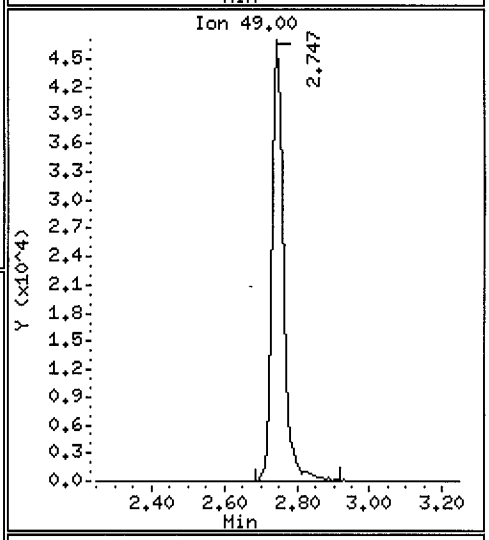


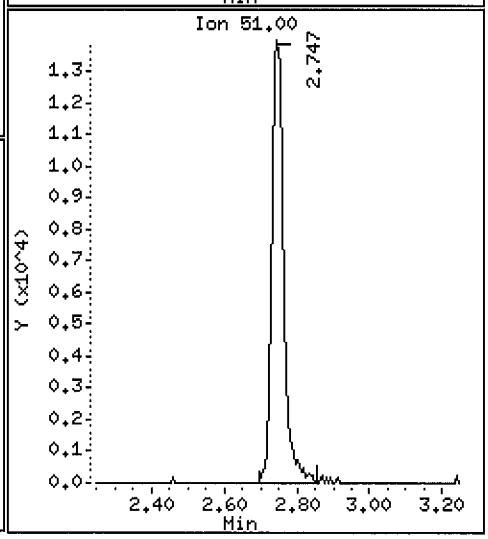












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

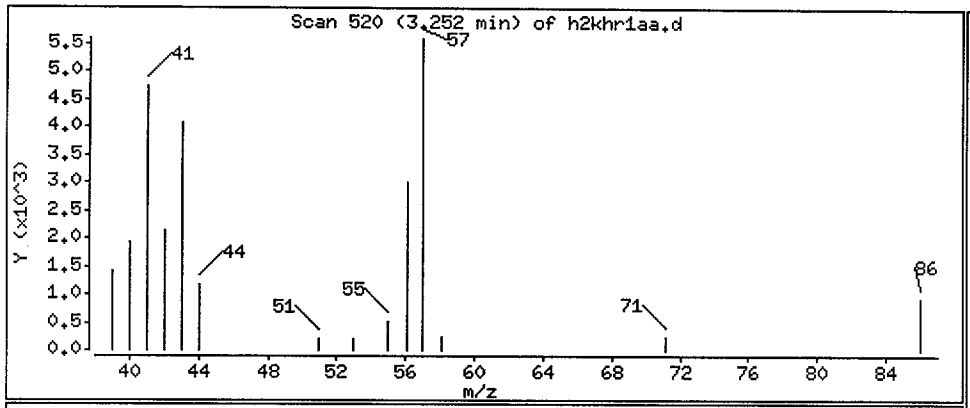
Operator: 22980

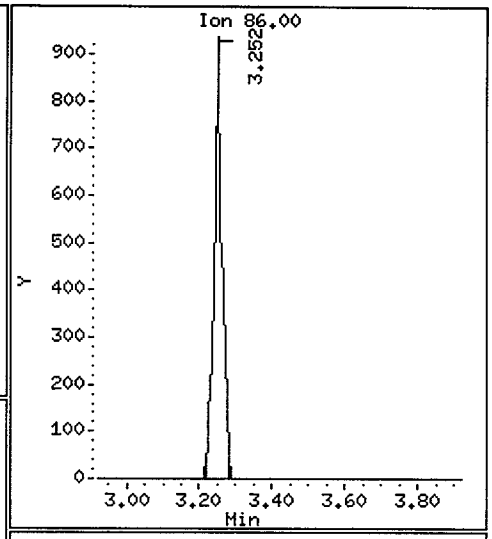
Column phase: J+W 624

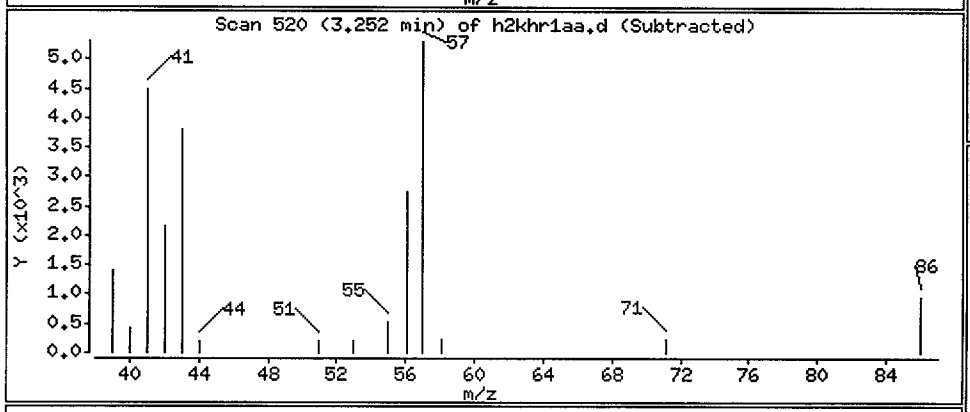
Column diameter: 0.18

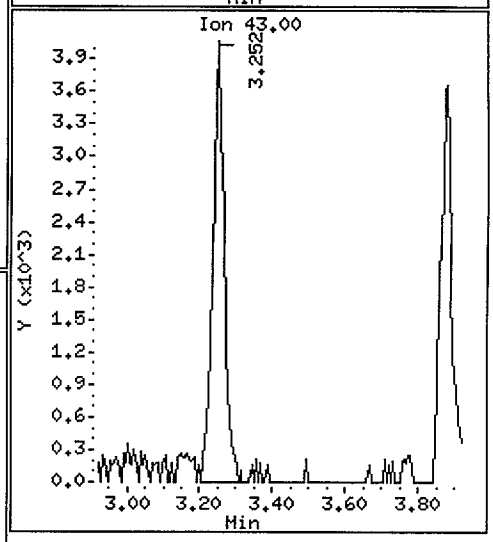
33 *Vinyl Acetate

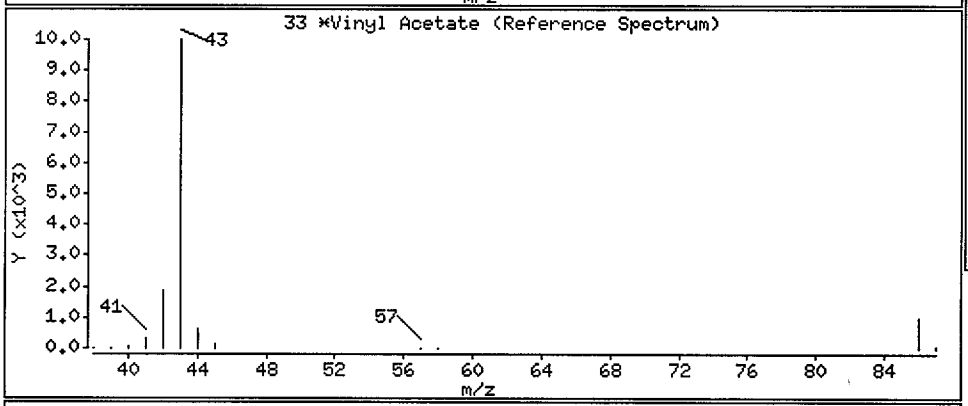
Concentration: 0.029698 ug

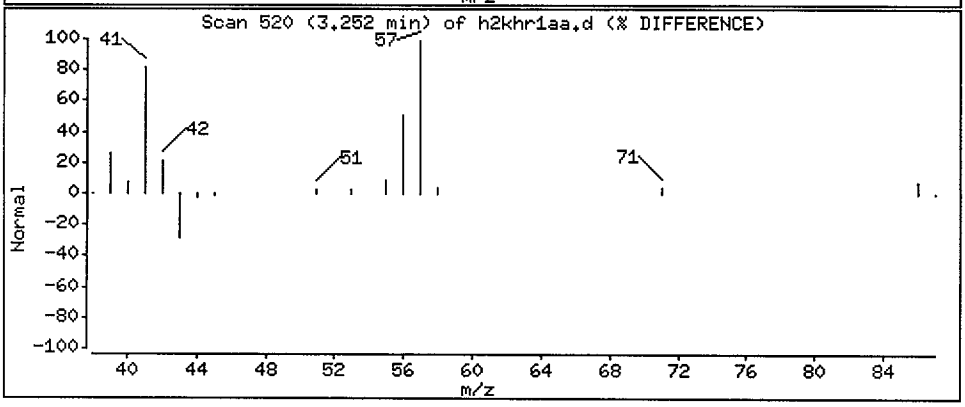












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

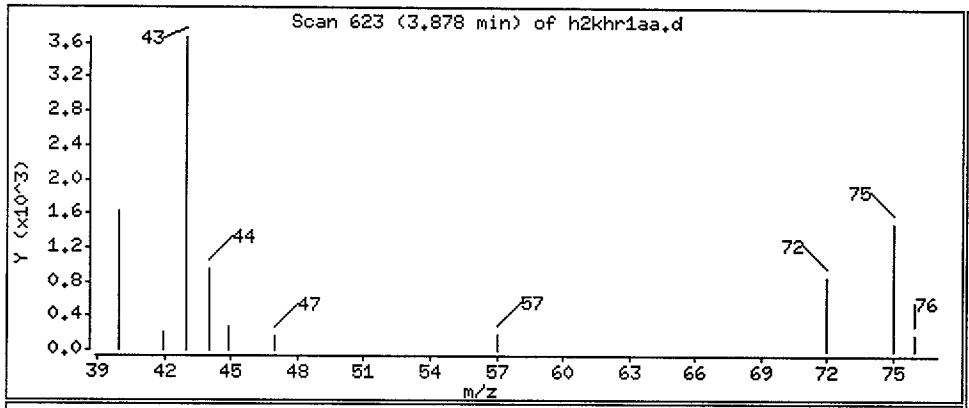
Operator: 22980

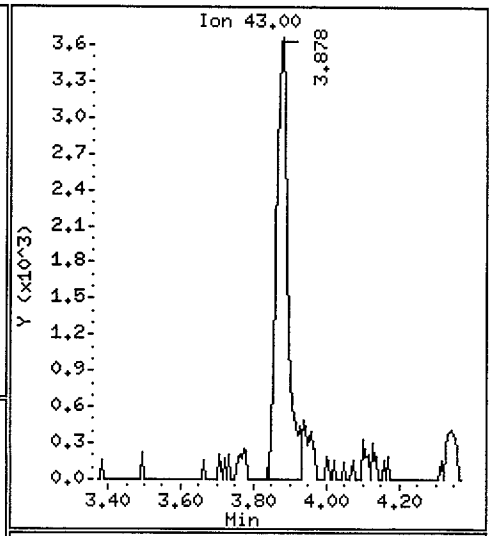
Column phase: J+W 624

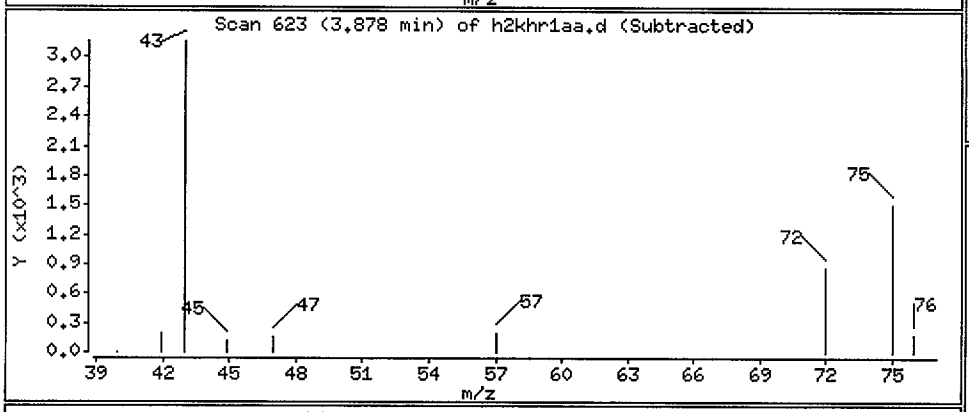
Column diameter: 0.18

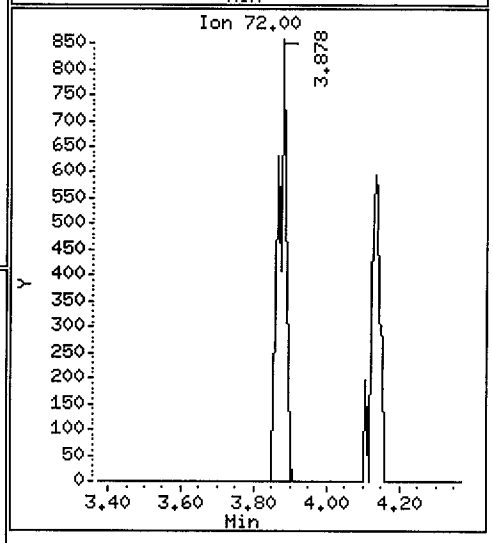
36 2-Butanone

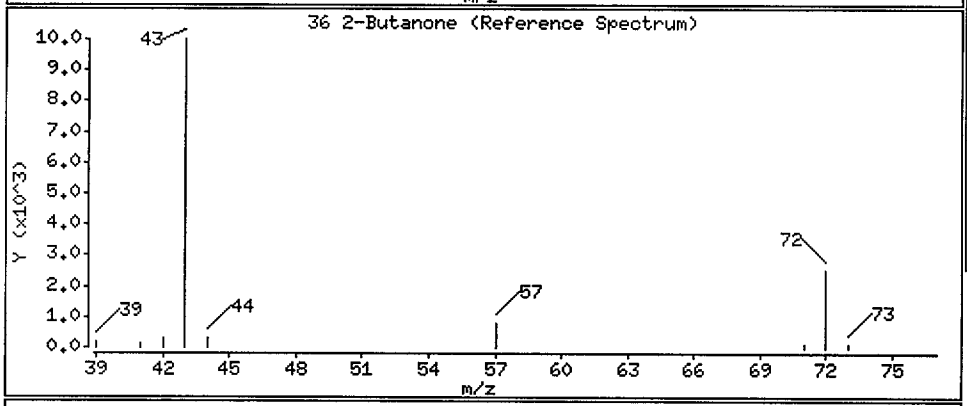
Concentration: 0.090662 ug

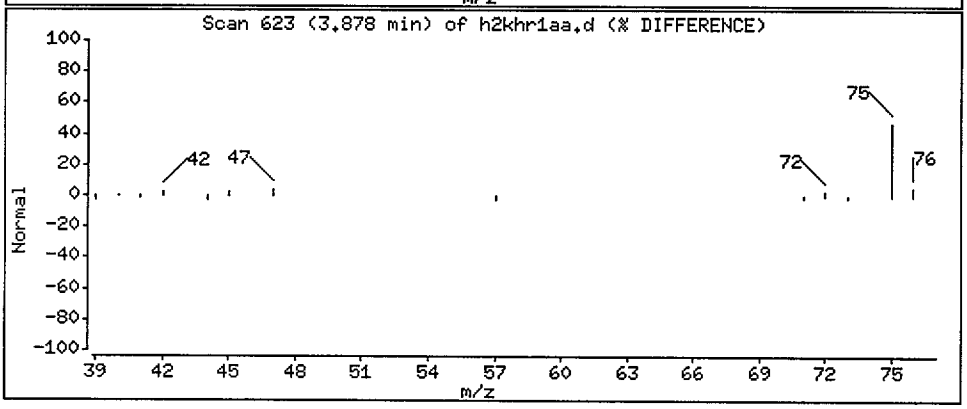












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

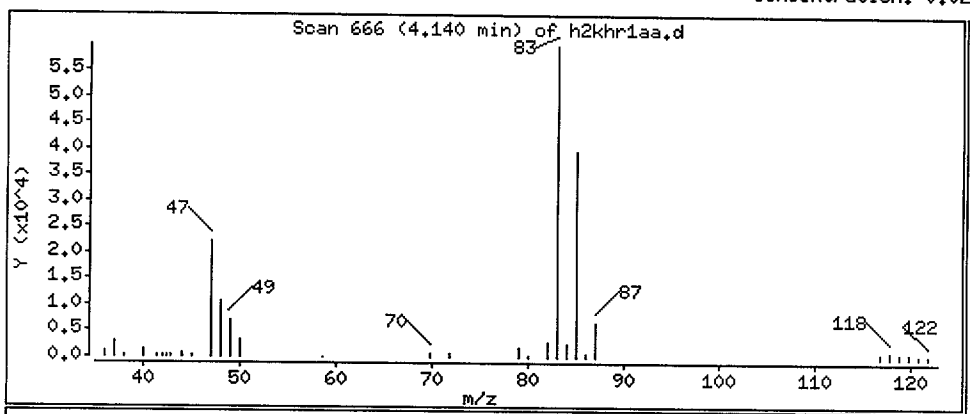
Operator: 22980

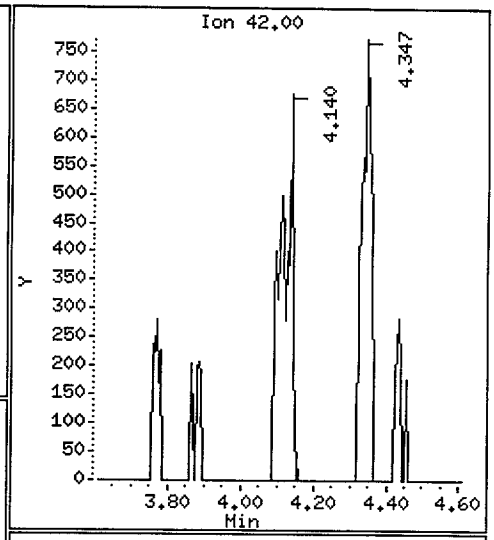
Column phase: J+W 624

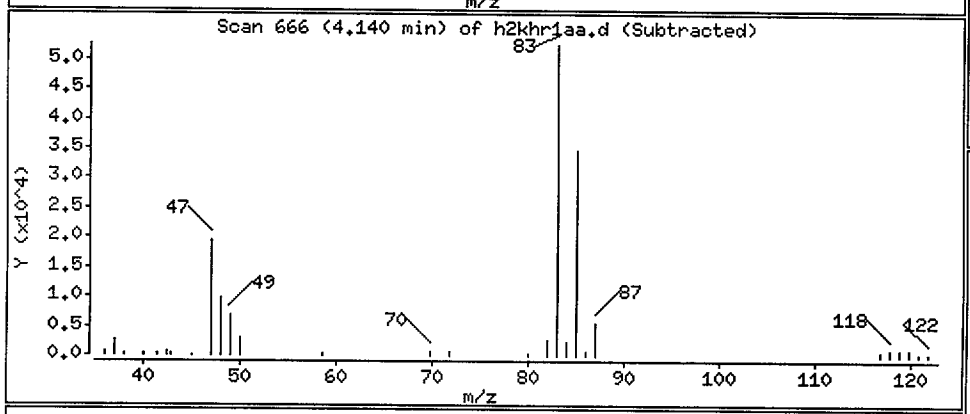
Column diameter: 0.18

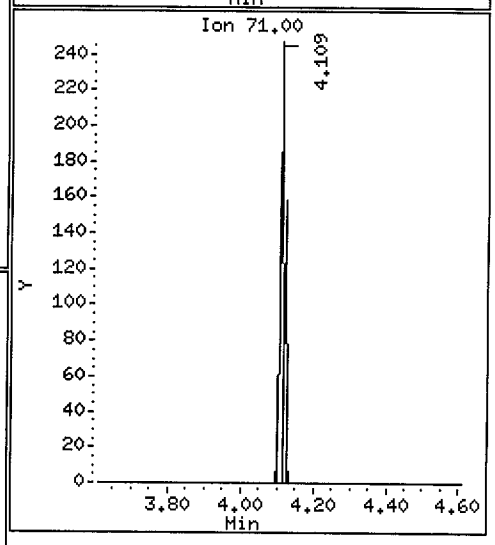
38 *THF

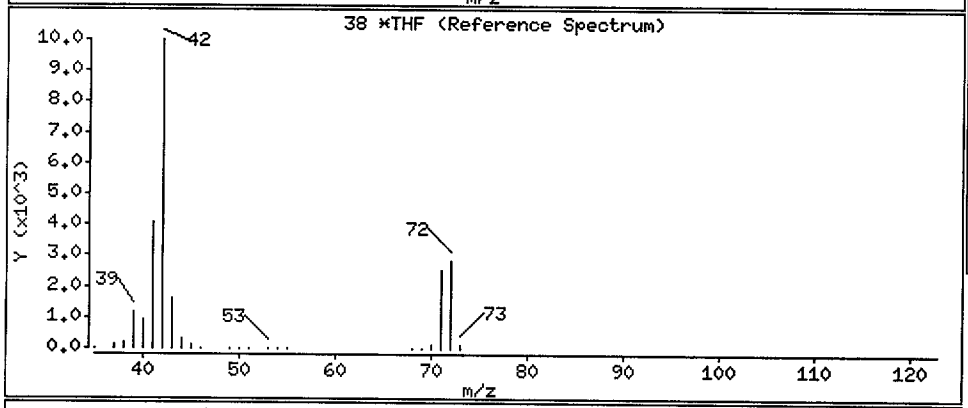
Concentration: 0.025919 ug

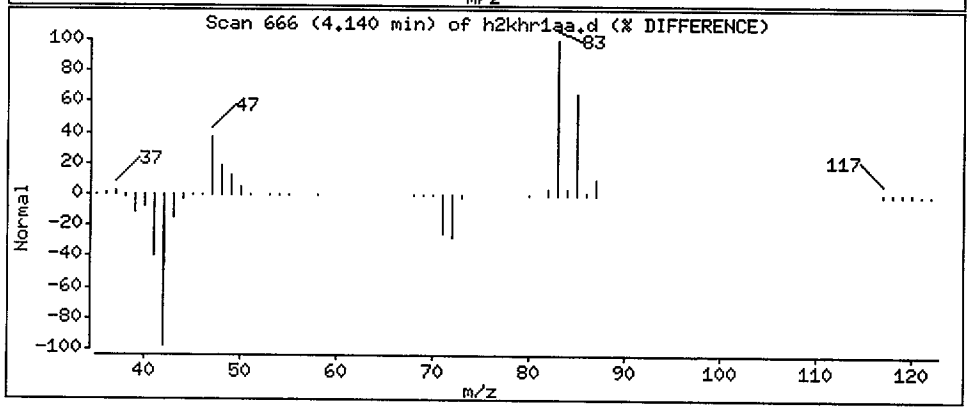












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

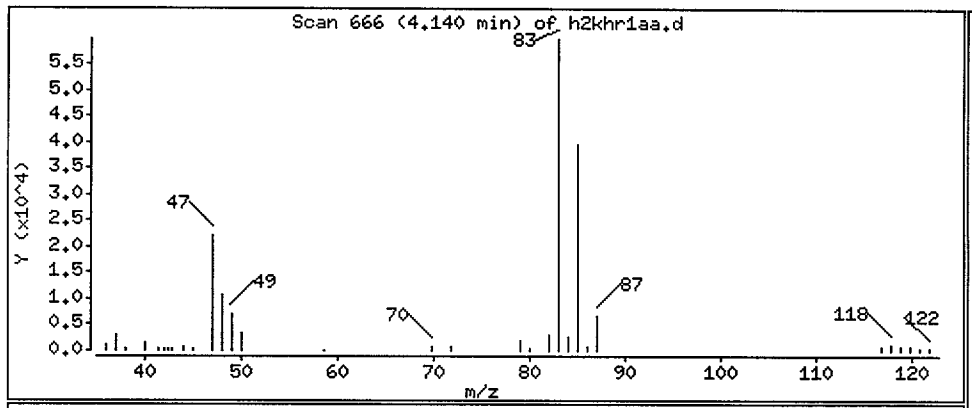
Operator: 22980

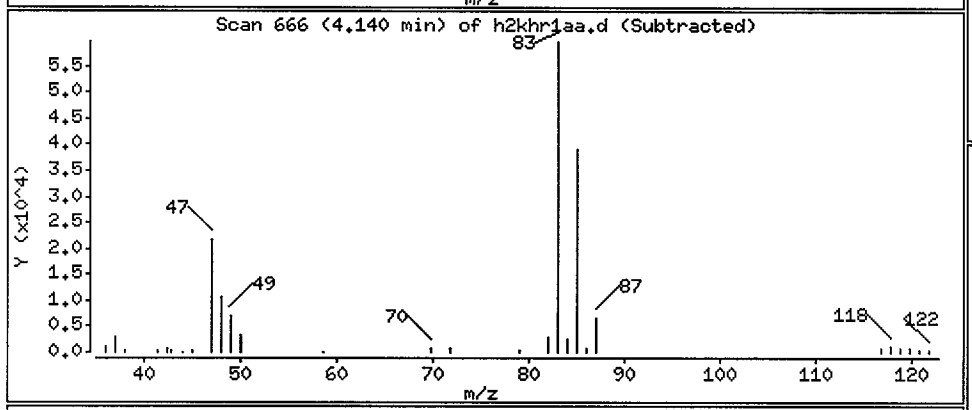
Column phase: J+W 624

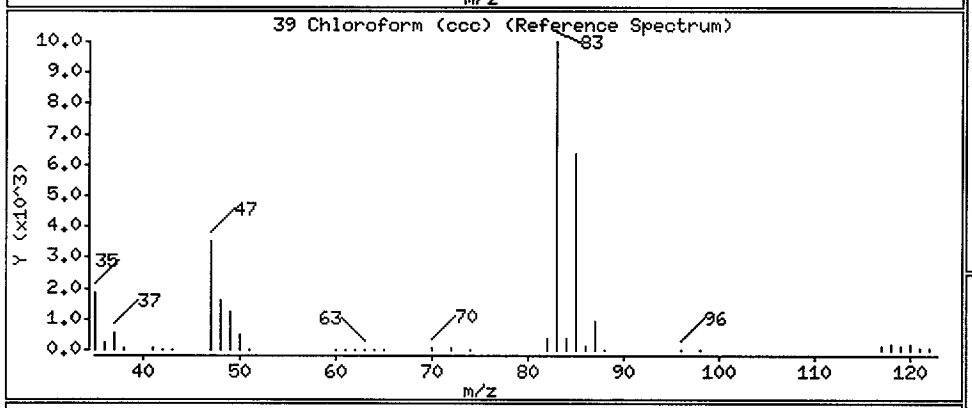
Column diameter: 0.18

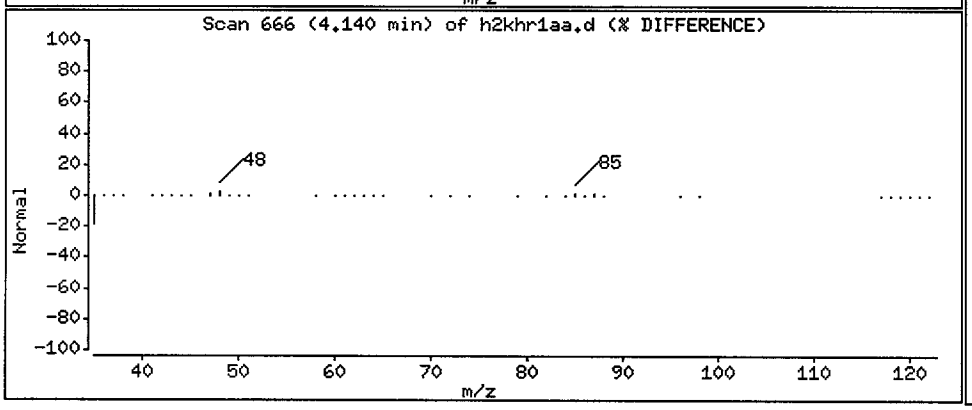
39 Chloroform (ccc)

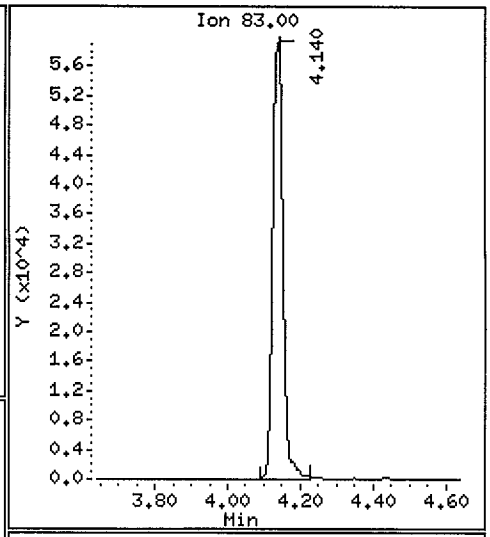
Concentration: 0.073838 ug

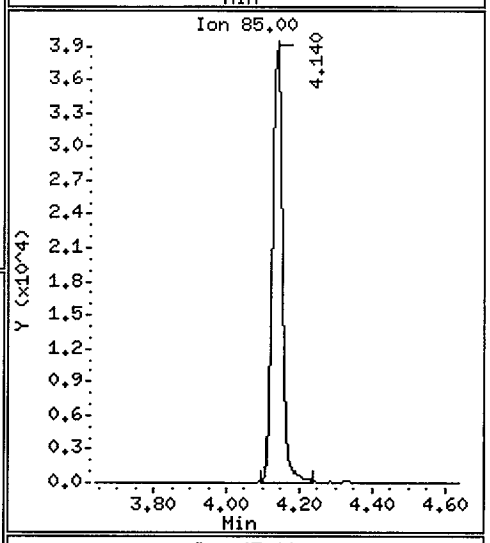


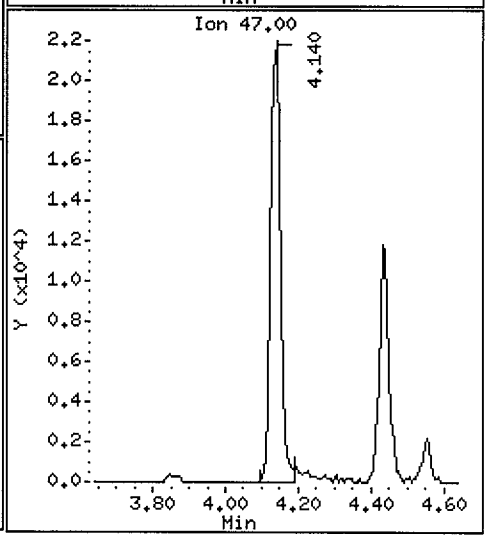












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

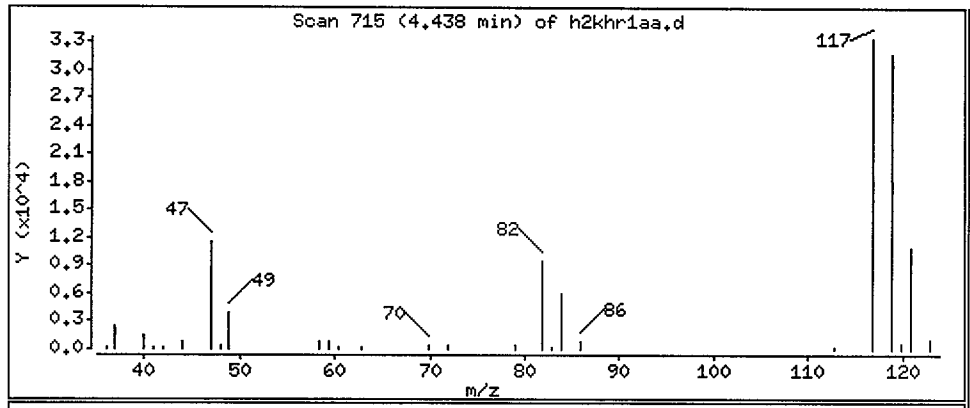
Operator: 22980

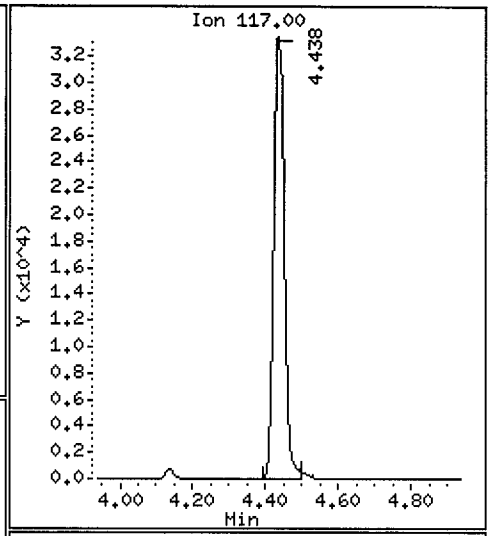
Column phase: J+W 624

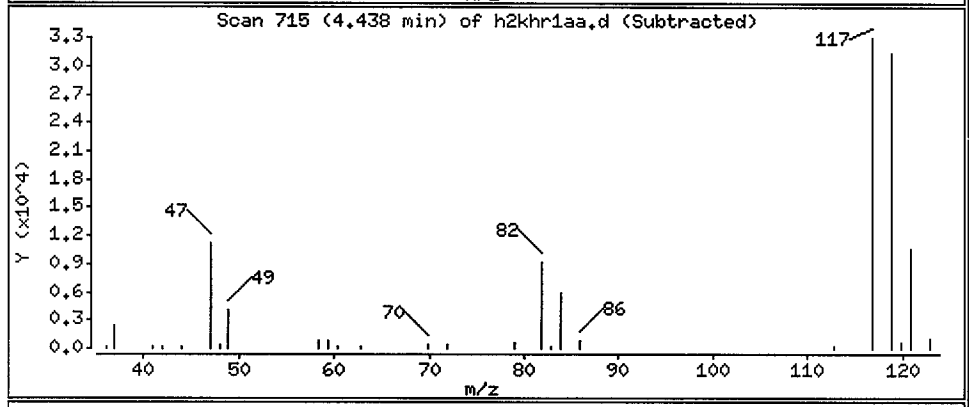
Column diameter: 0.18

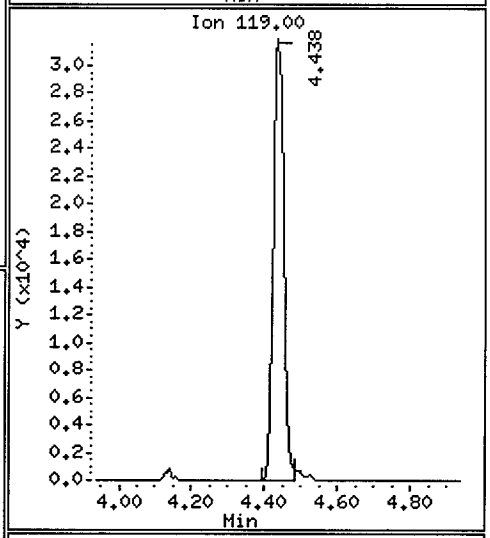
41 Carbon Tetrachloride

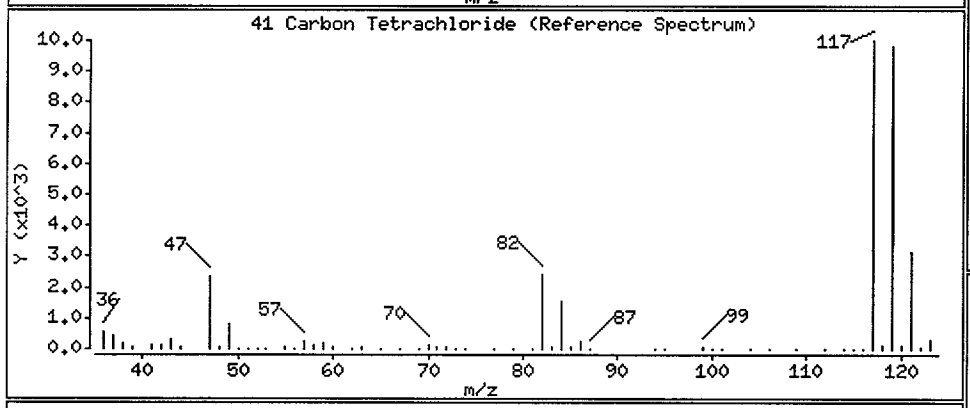
Concentration: 0.045785 ug

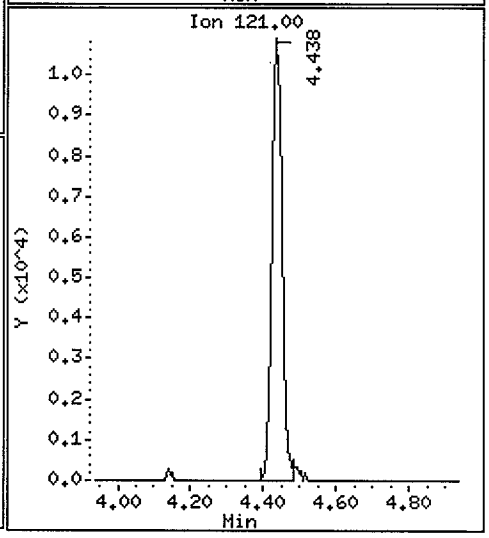


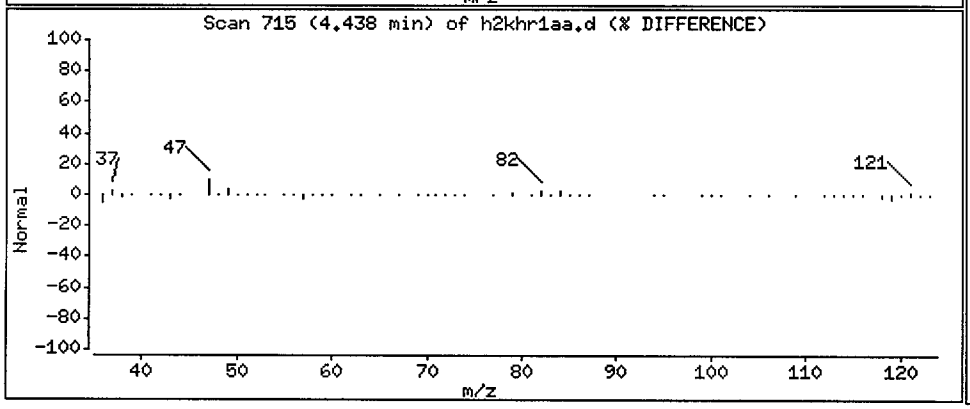












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

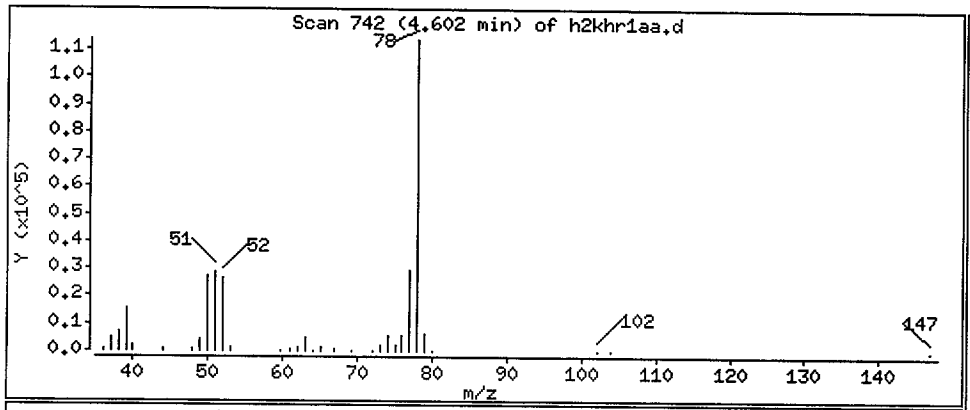
Operator: 22980

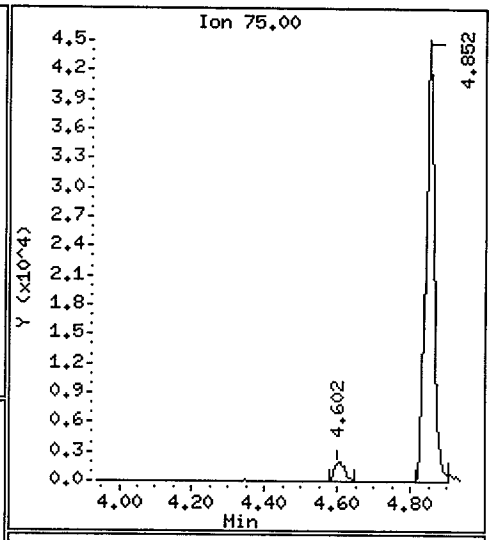
Column phase: J+W 624

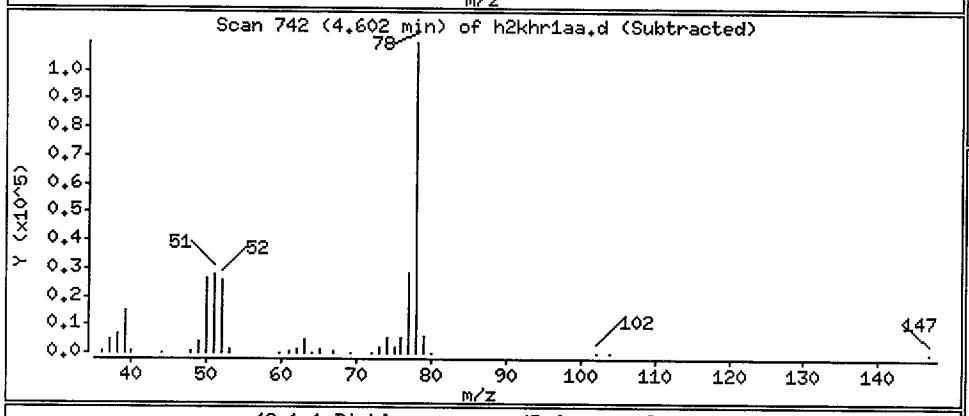
Column diameter: 0.18

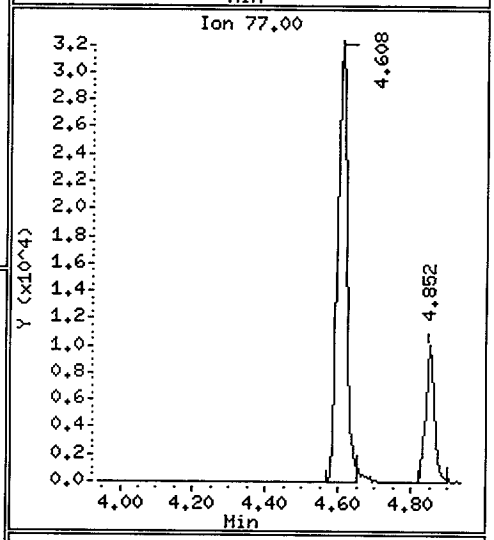
42 1,1-Dichloropropene

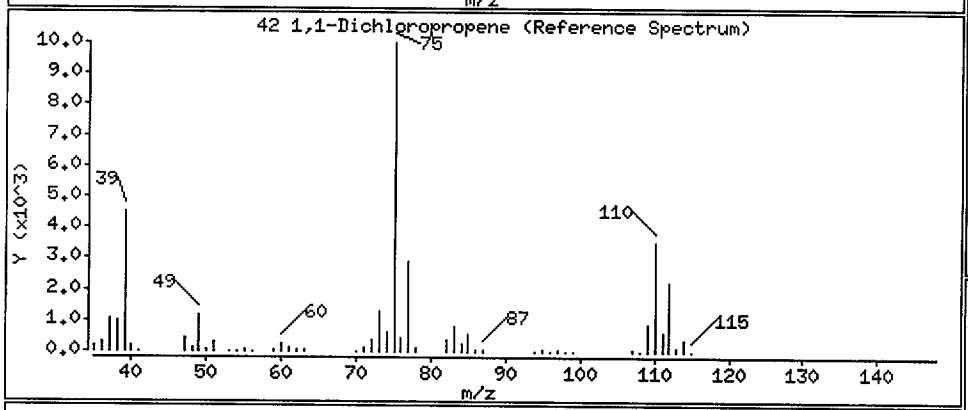
Concentration: 0.0024664 ug

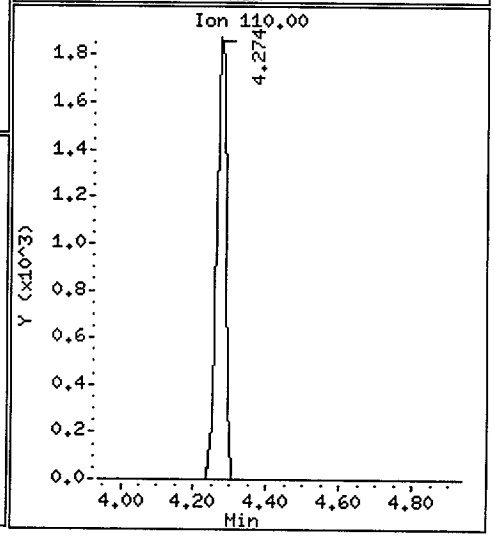


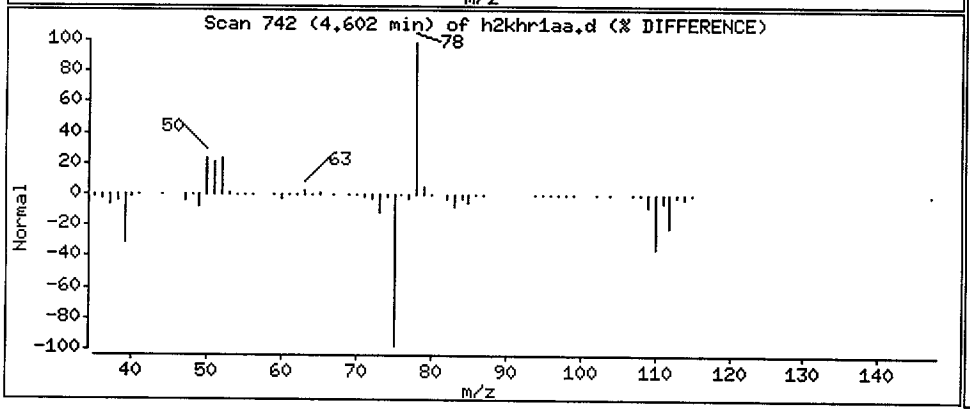












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

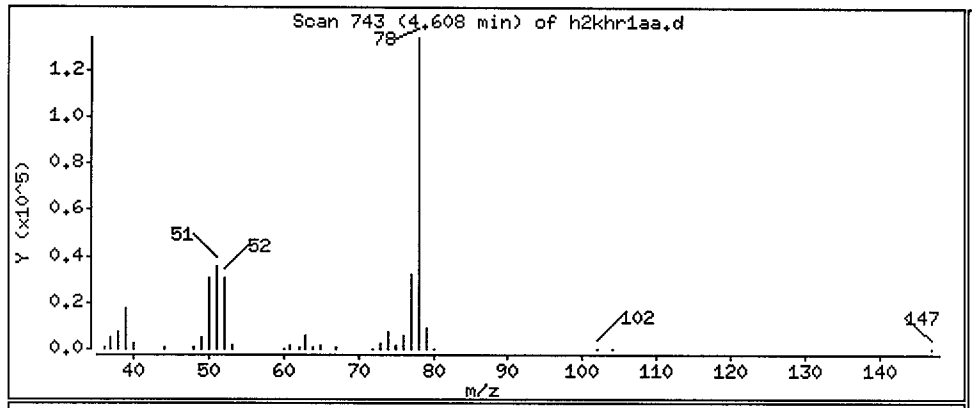
Operator: 22980

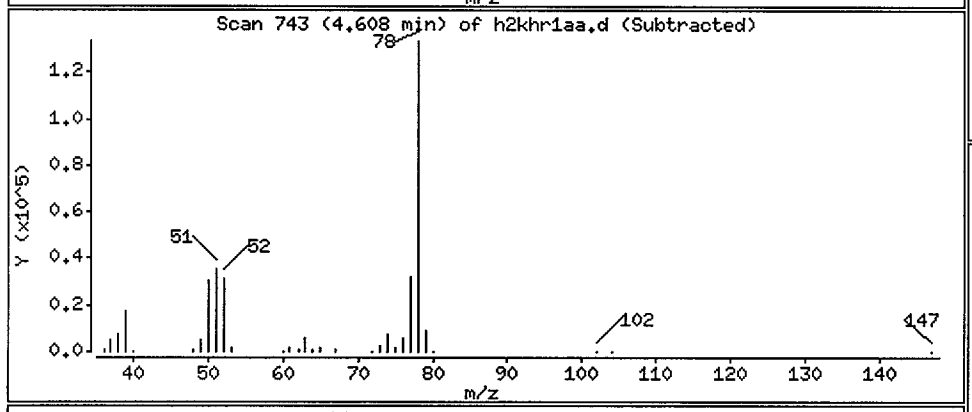
Column phase: J+W 624

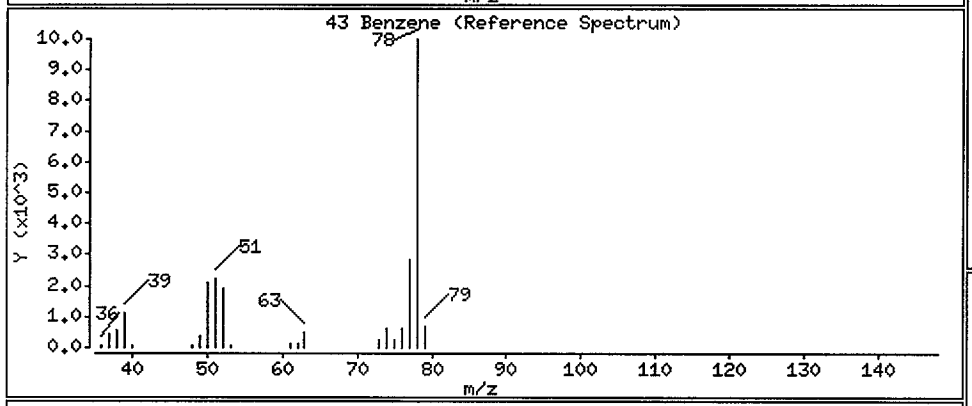
Column diameter: 0.18

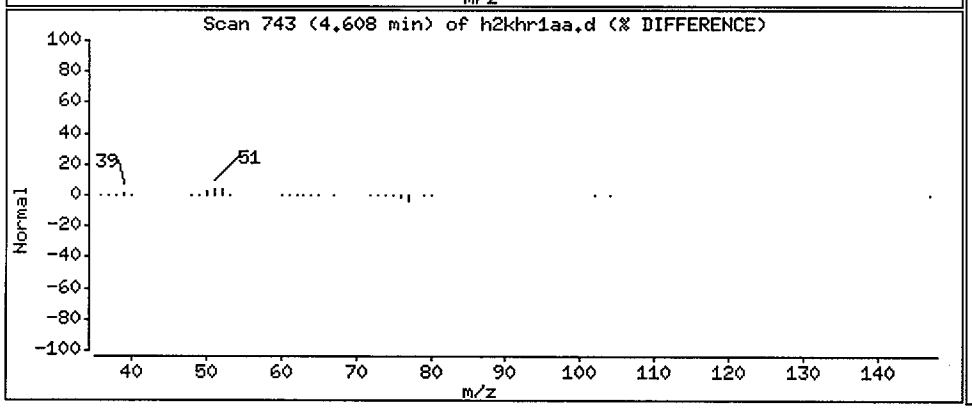
43 Benzene

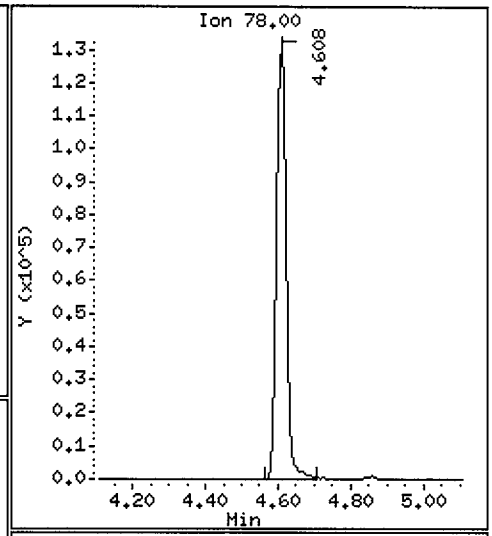
Concentration: 0.058308 ug

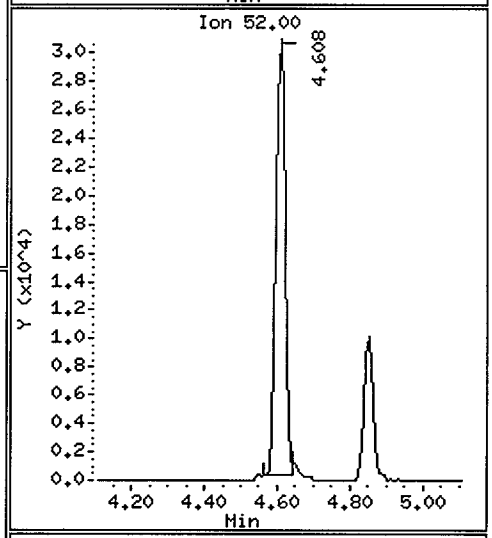


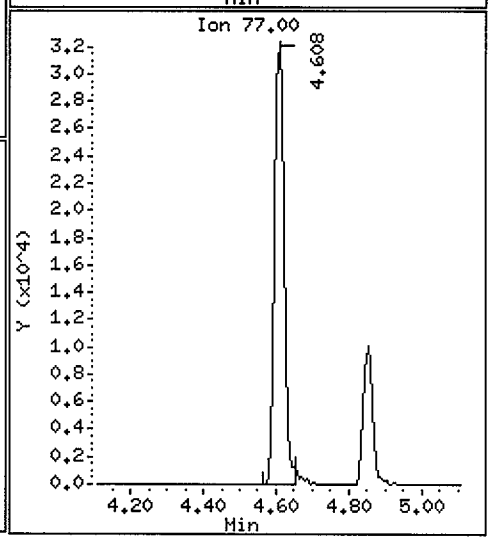












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

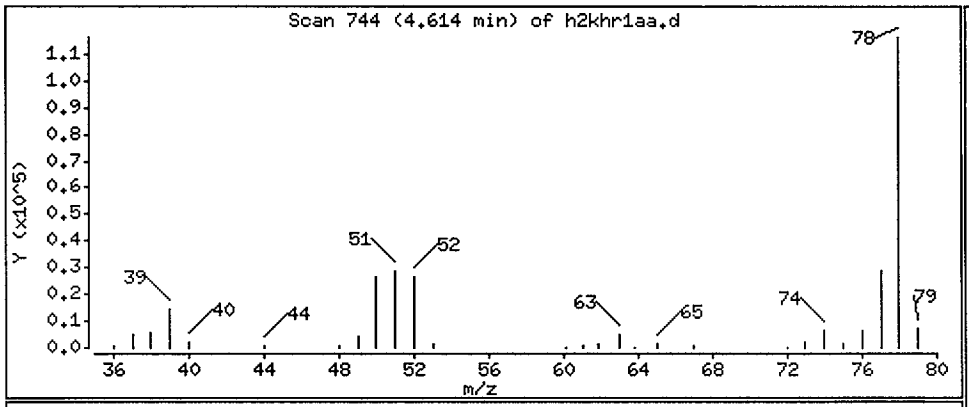
Operator: 22980

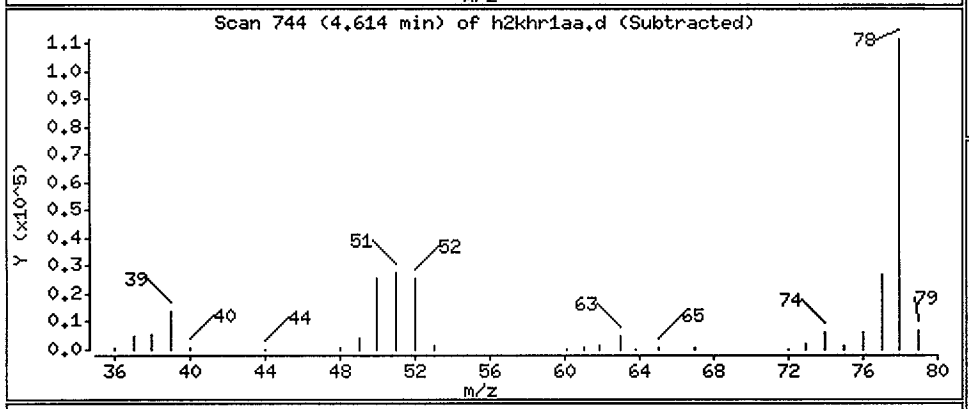
Column phase: J+W 624

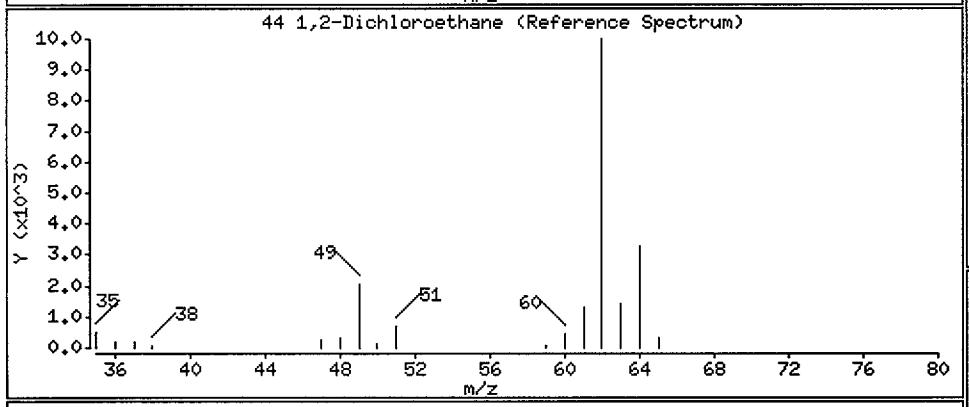
Column diameter: 0.18

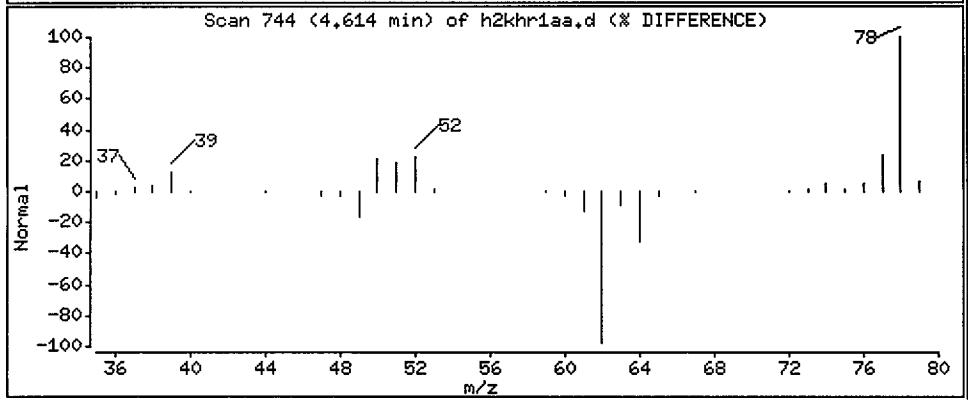
44 1,2-Dichloroethane

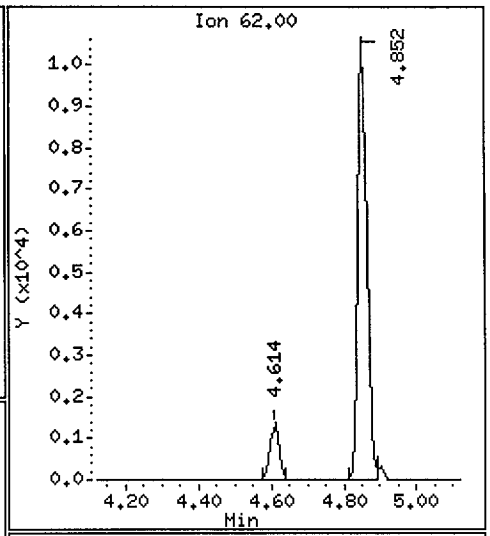
Concentration: 0.0035524 ug

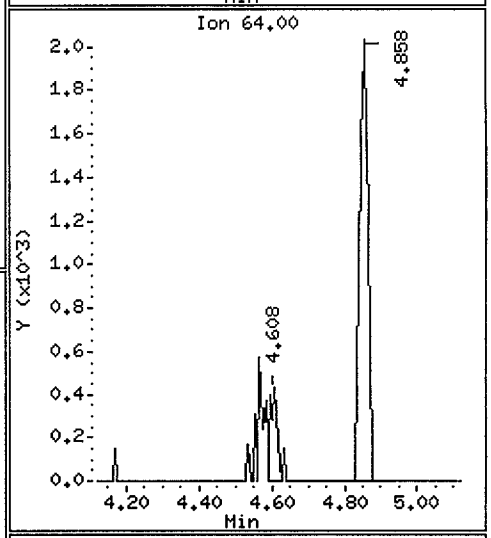


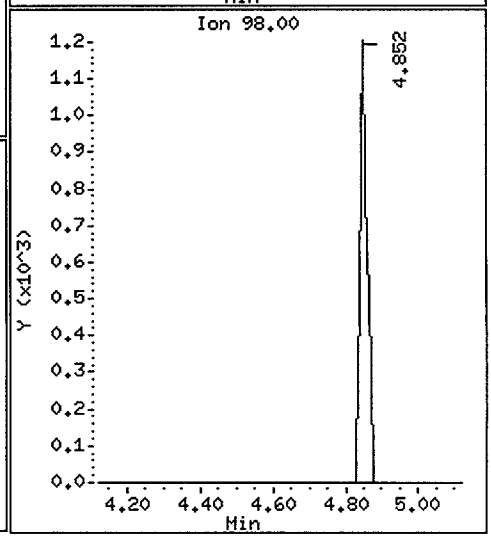












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

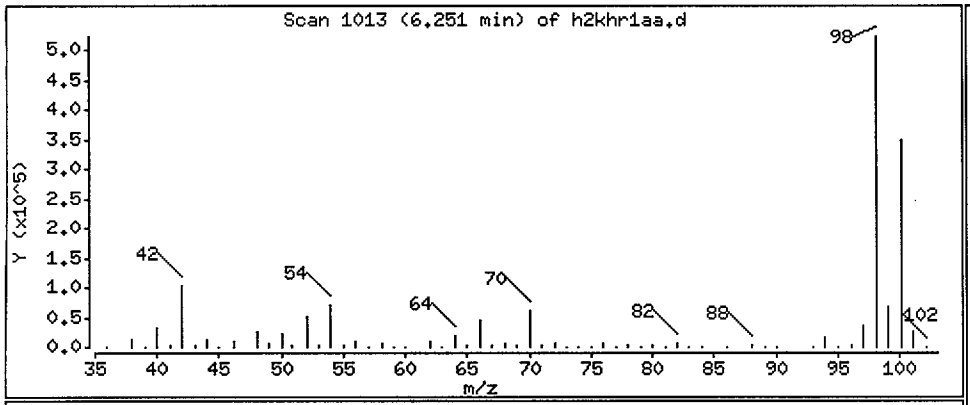
Client ID: AUDIT VOST #2 Instrument: mx.i

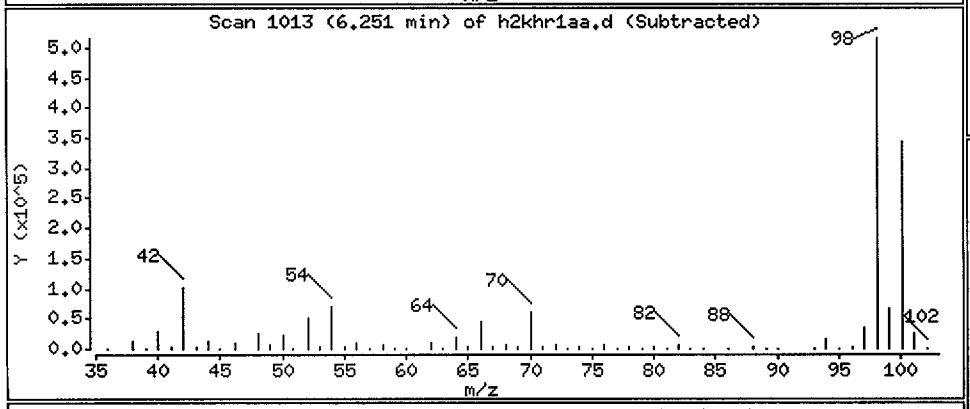
Sample Info: H2KHR1AA,1,0,,,

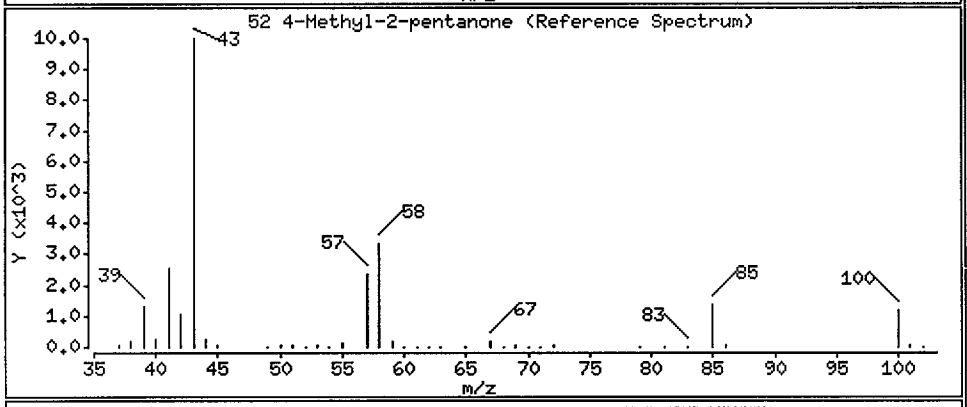
Operator: 22980

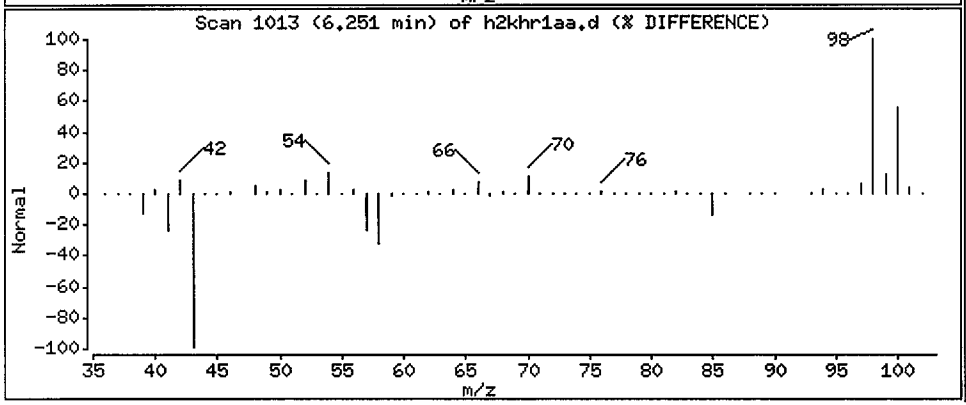
Column phase: J+W 624 Column diameter: 0.18

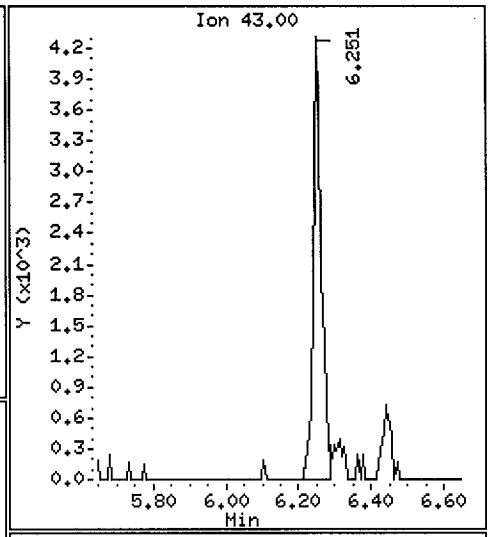
52 4-Methyl-2-pentanone Concentration: 0.031863 ug

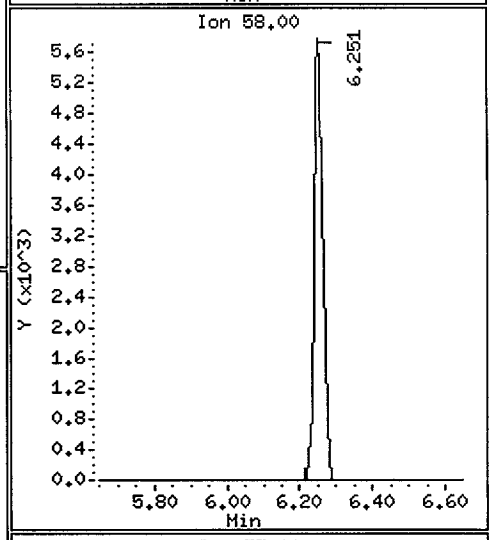


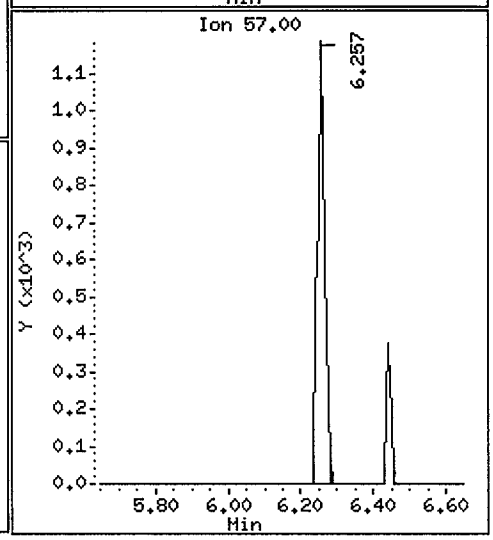












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

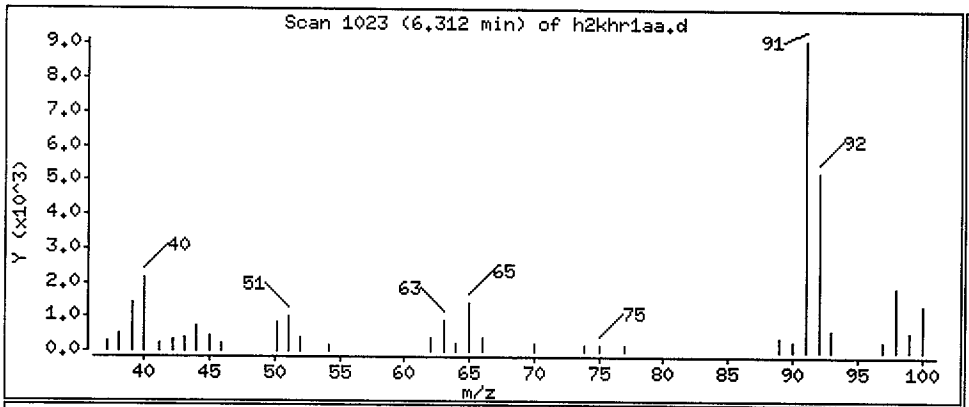
Operator: 22980

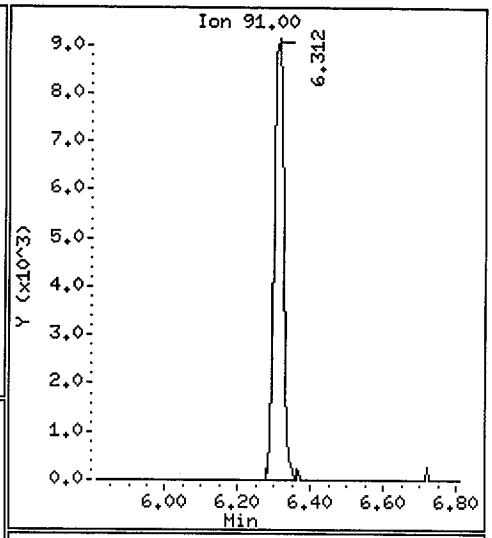
Column phase: J+W 624

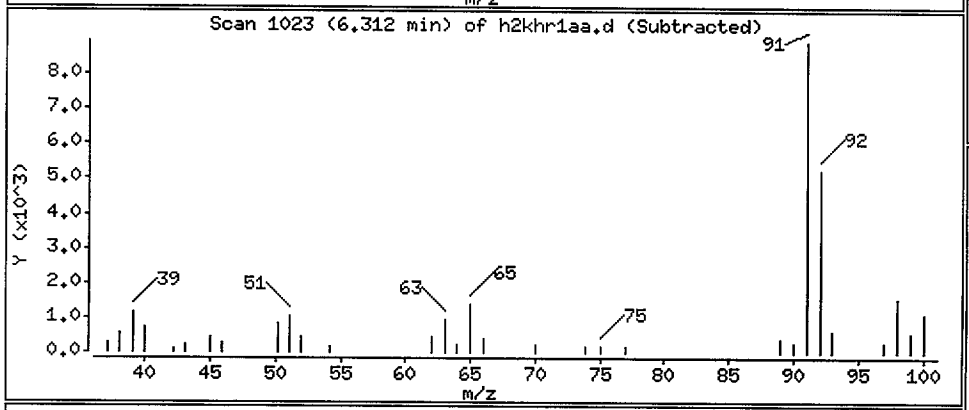
Column diameter: 0.18

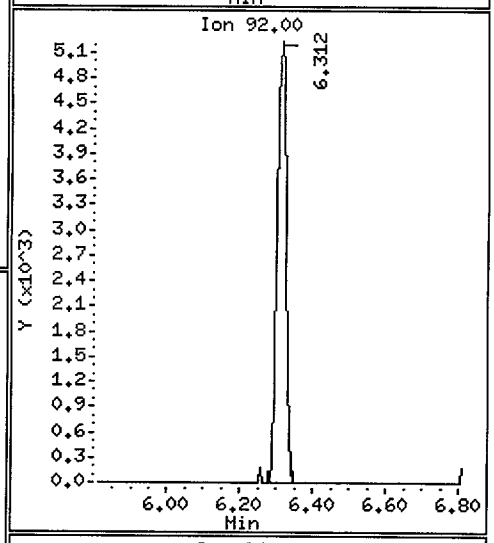
53 Toluene (ccc)

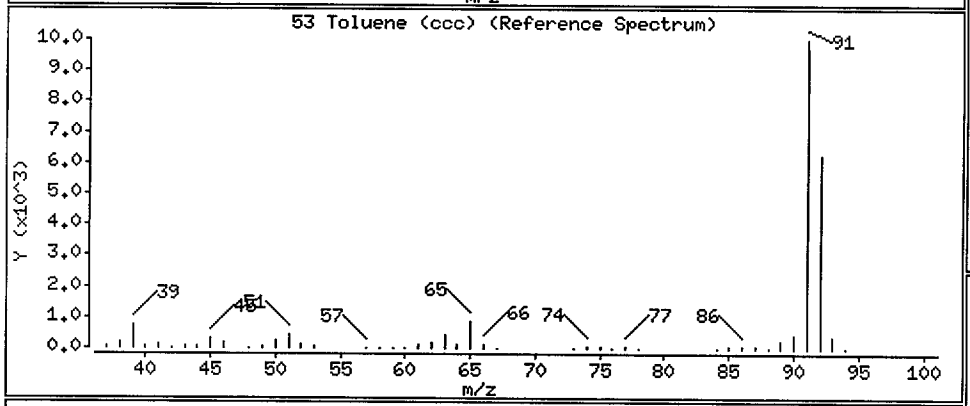
Concentration: 0.0034629 ug

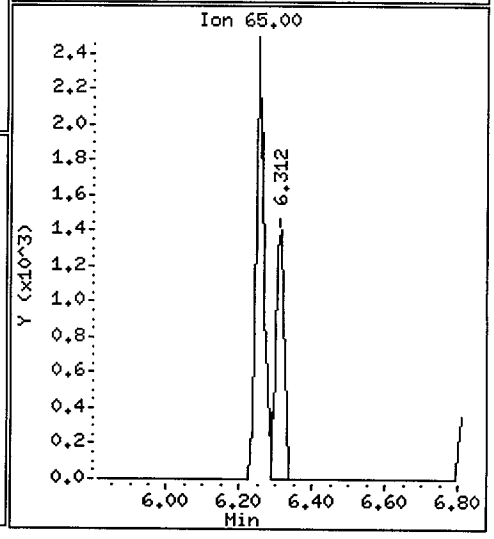


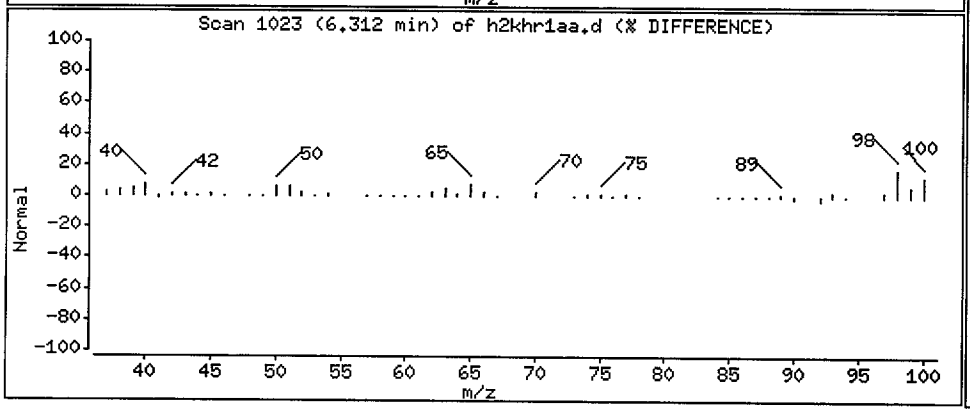












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

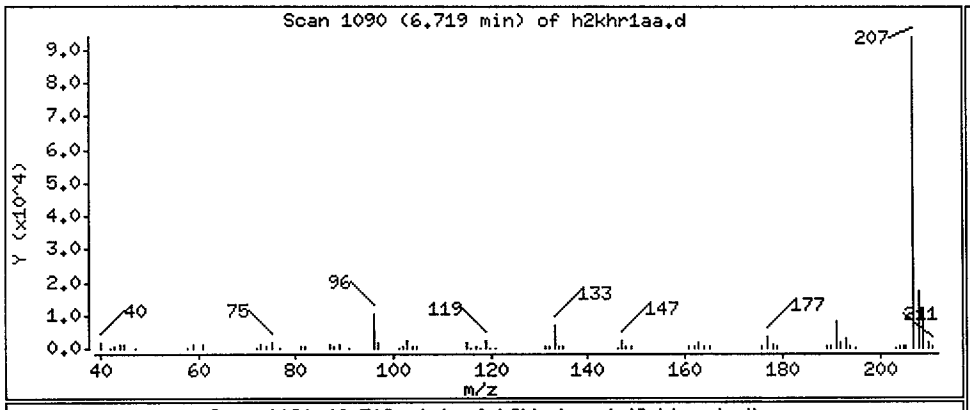
Client ID: AUDIT VOST #2 Instrument: mx.i

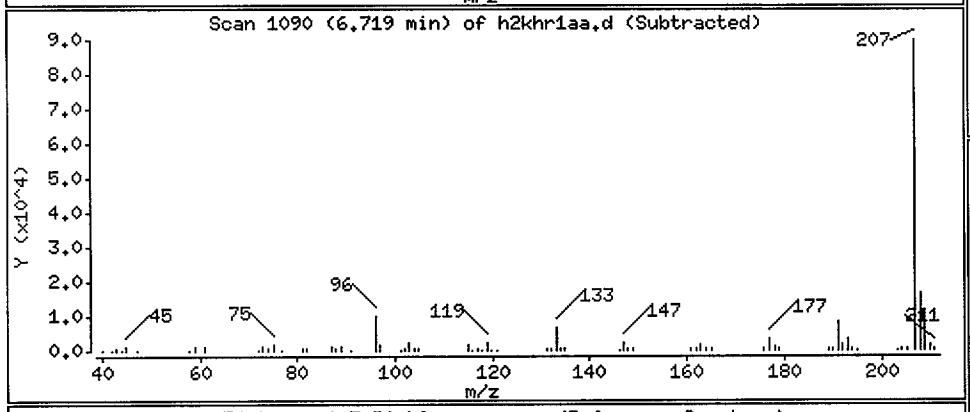
Sample Info: H2KHR1AA,1,0,,,

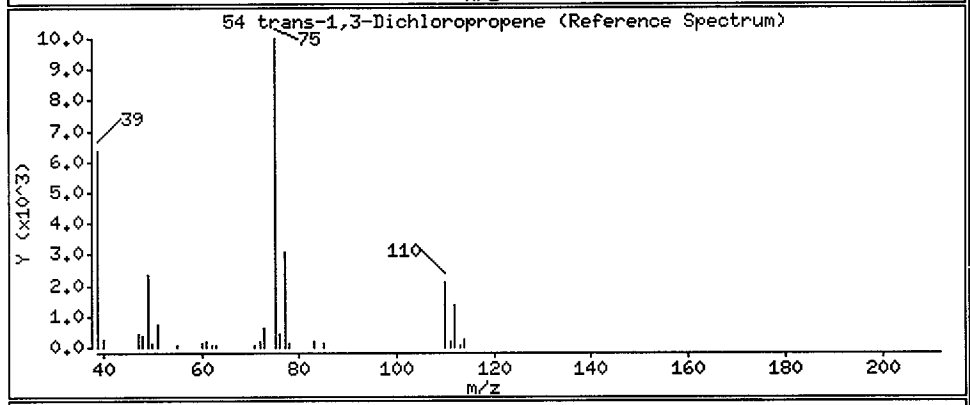
Operator: 22980

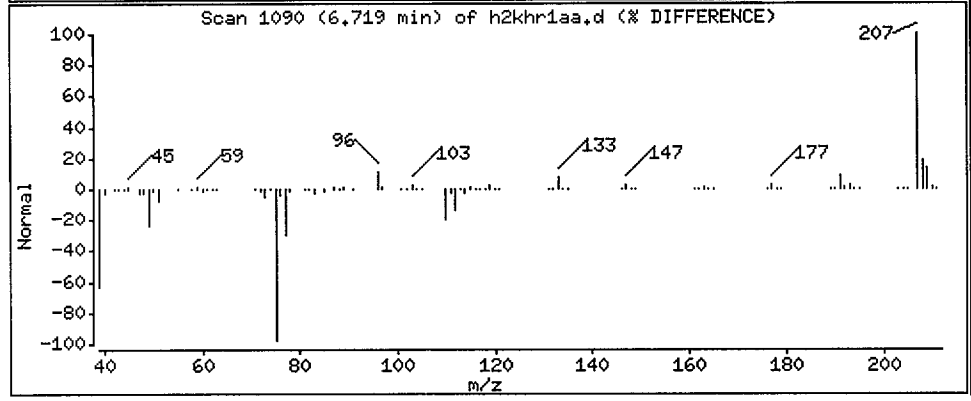
Column phase: J+W 624 Column diameter: 0.18

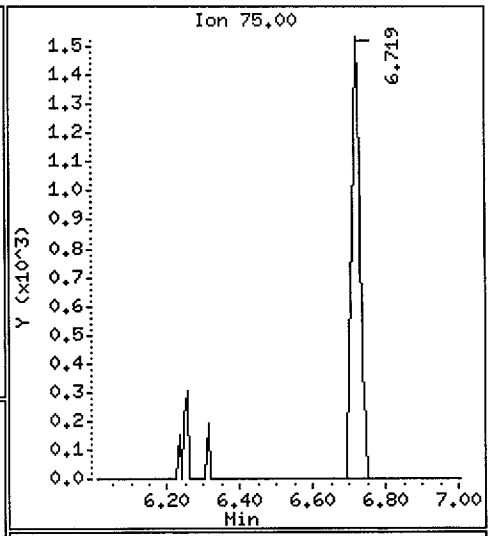
54 trans-1,3-Dichloropropene Concentration: 0.0031725 ug

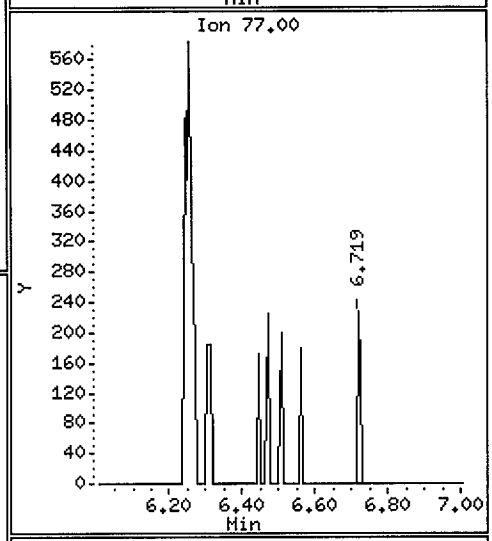


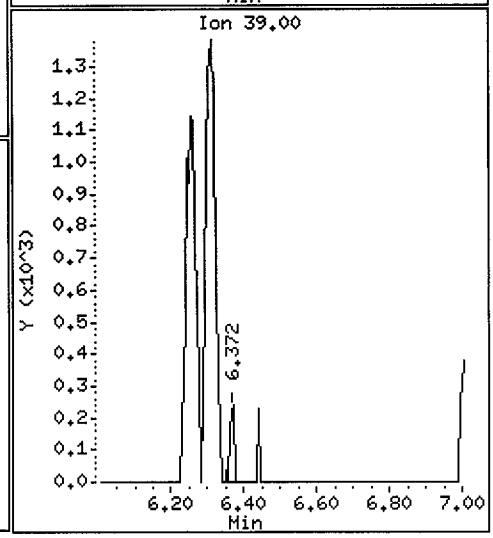












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

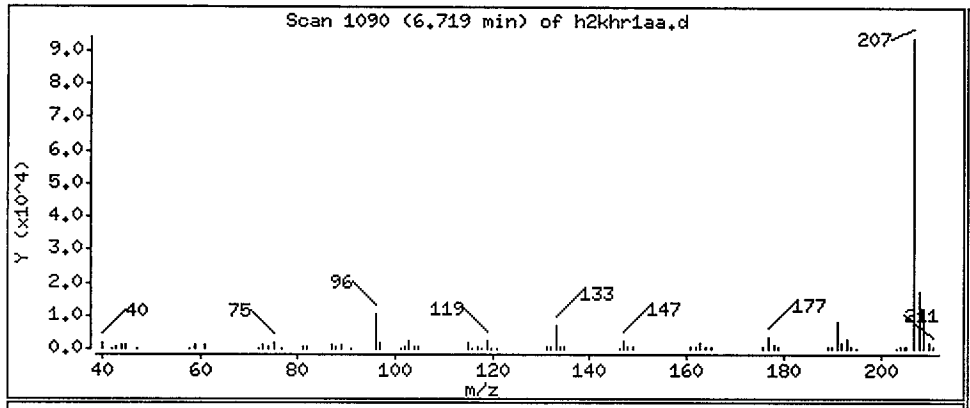
Operator: 22980

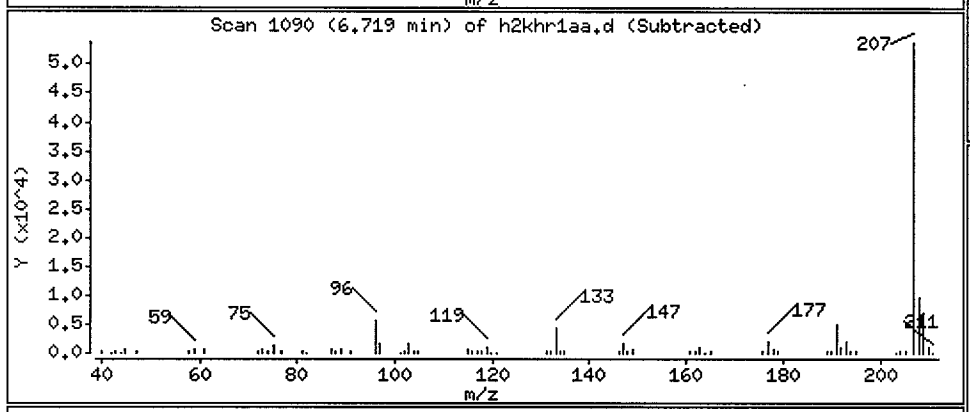
Column phase: J+W 624

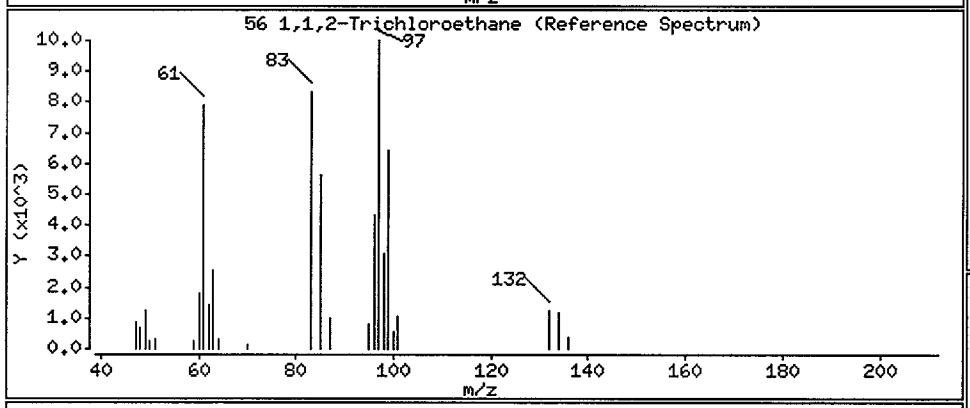
Column diameter: 0.18

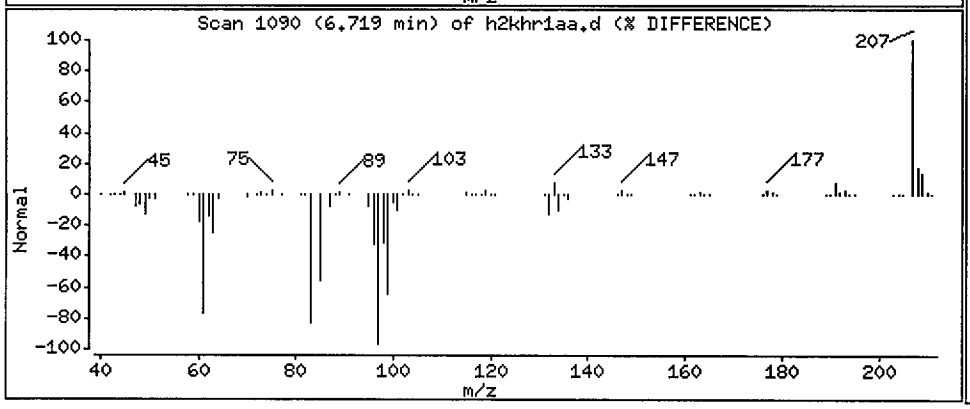
56 1,1,2-Trichloroethane

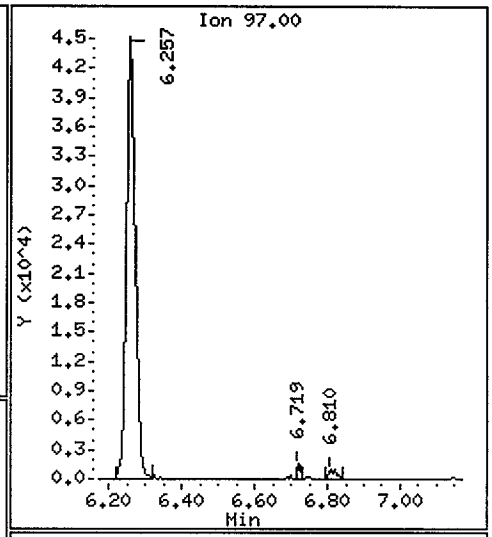
Concentration: 0.0030608 ug

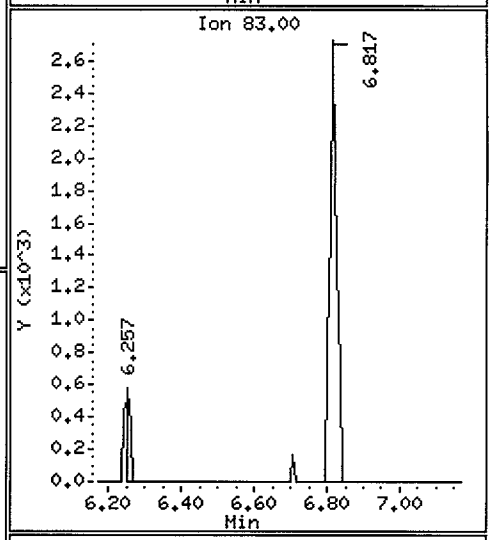


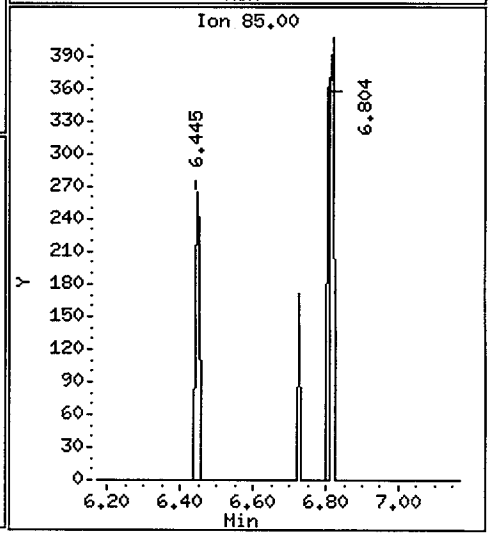












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

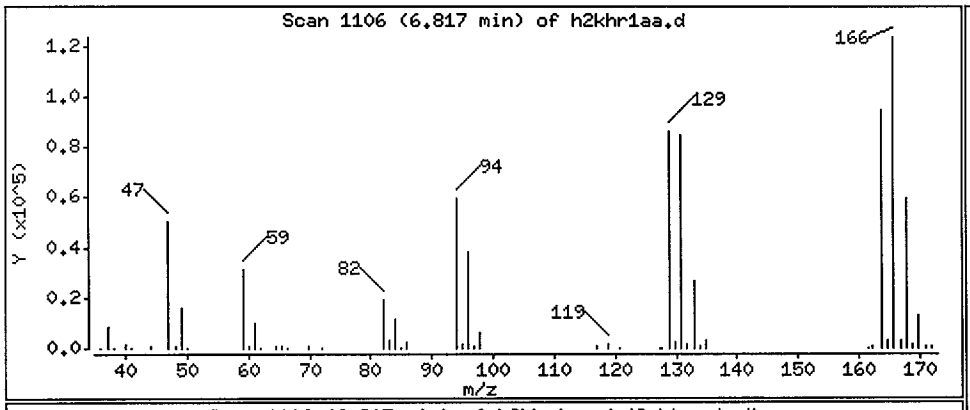
Client ID: AUDIT VOST #2 Instrument: mx.i

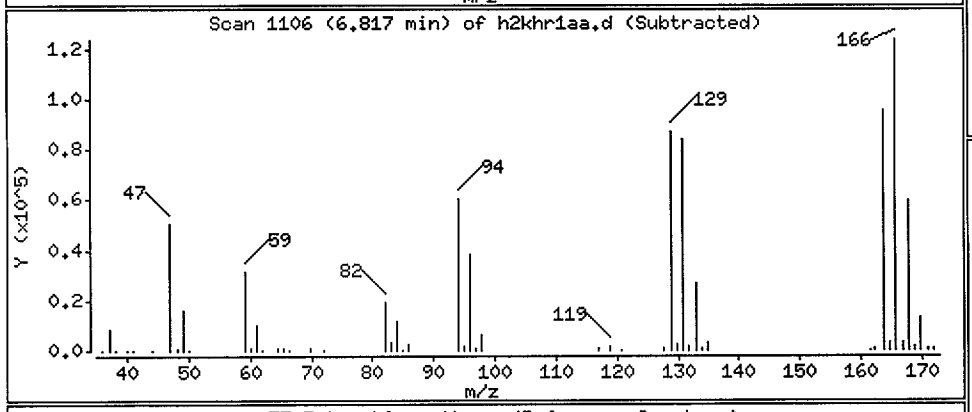
Sample Info: H2KHR1AA,1,0,,,

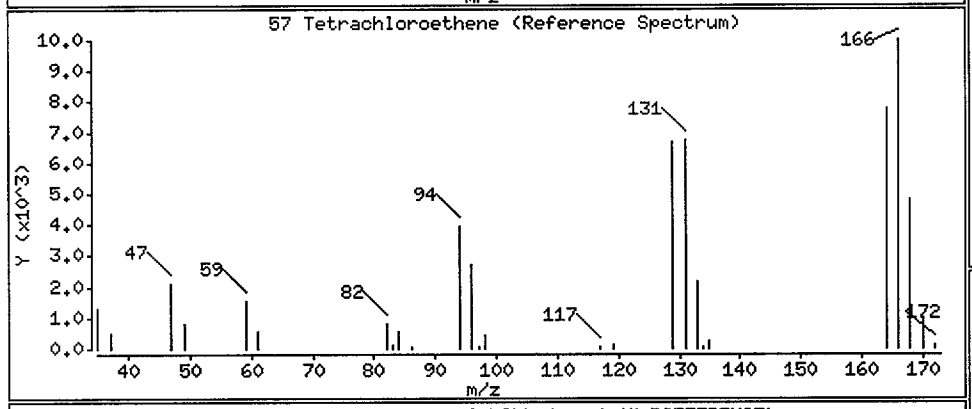
Operator: 22980

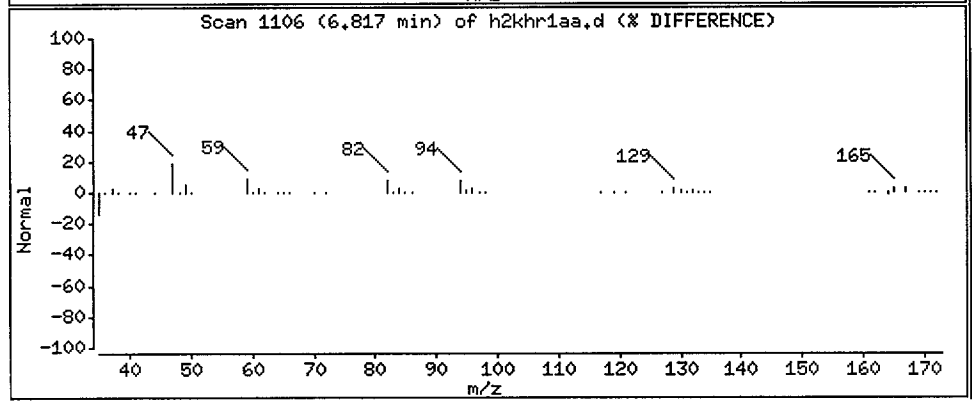
Column phase: J+W 624 Column diameter: 0.18

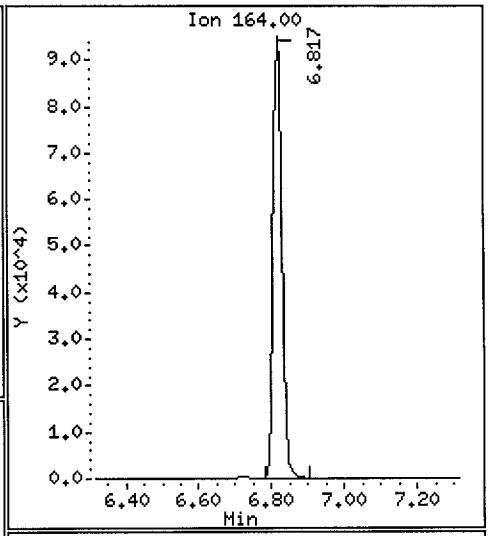
57 Tetrachloroethene Concentration: 0.15721 ug

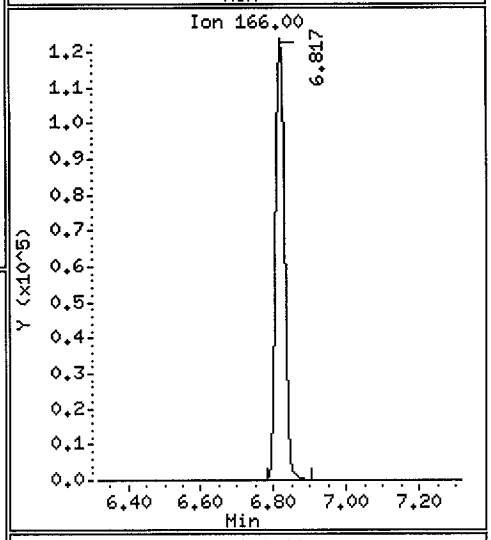


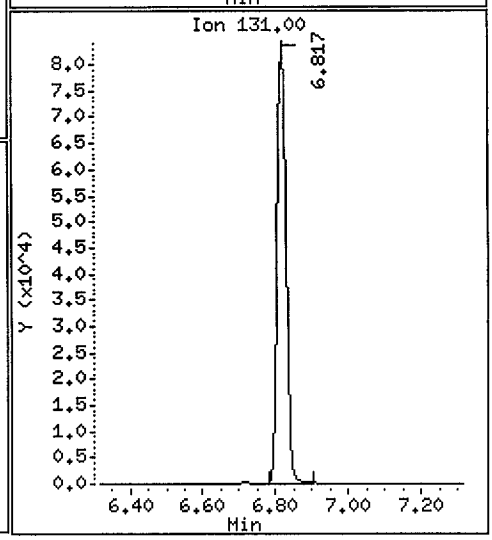












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

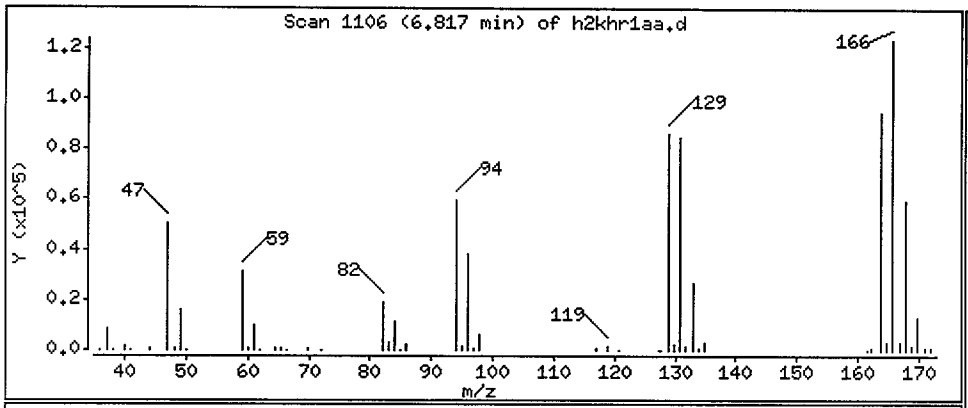
Operator: 22980

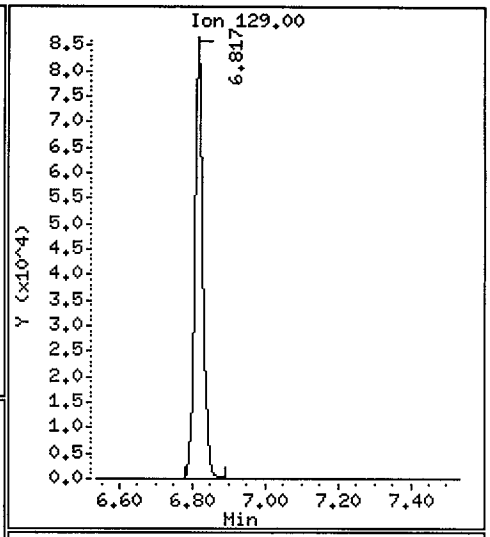
Column phase: J+W 624

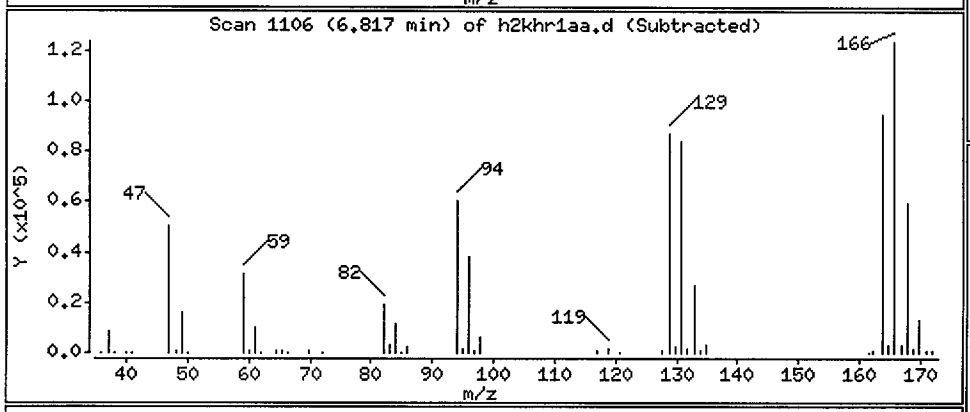
Column diameter: 0.18

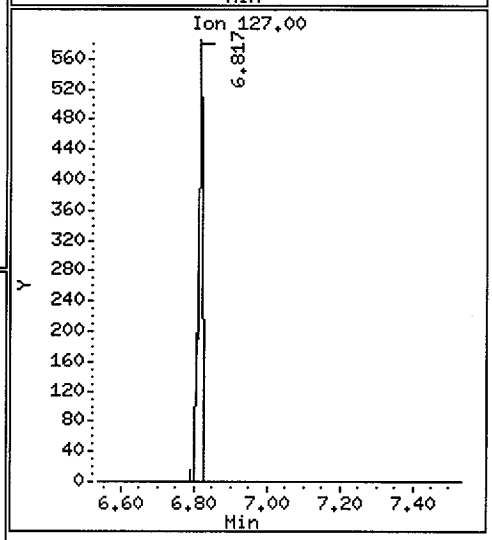
60 Chlorodibromomethane

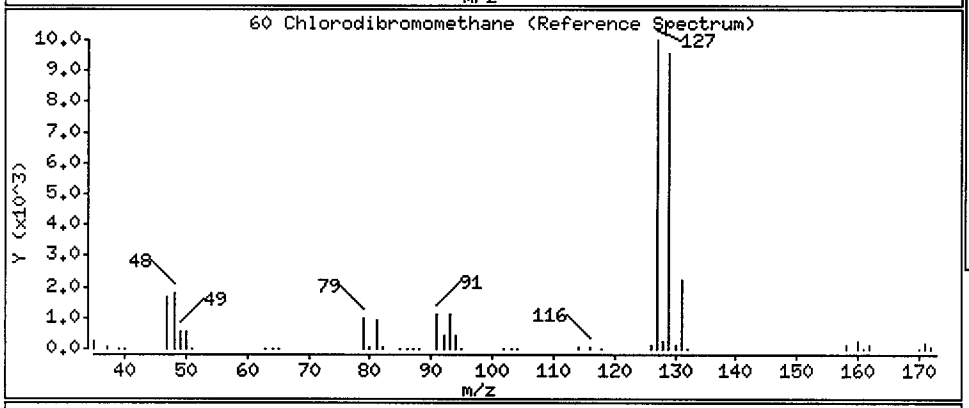
Concentration: 0.31217 ug

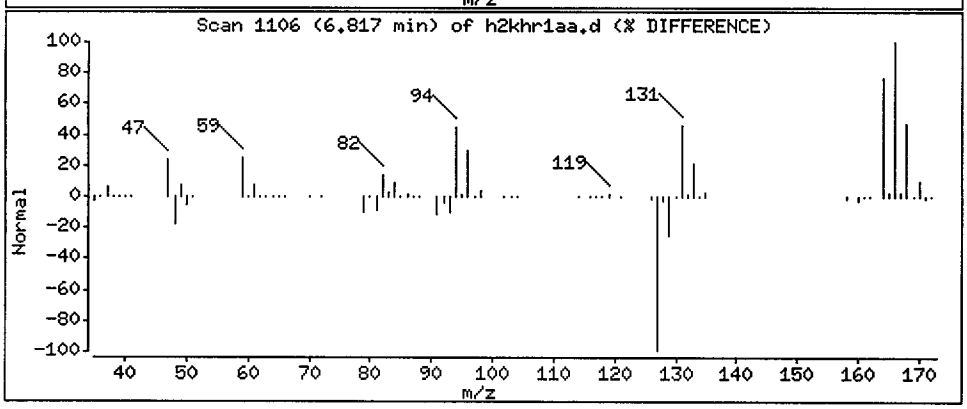












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

Client ID: AUDIT VOST #2

Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

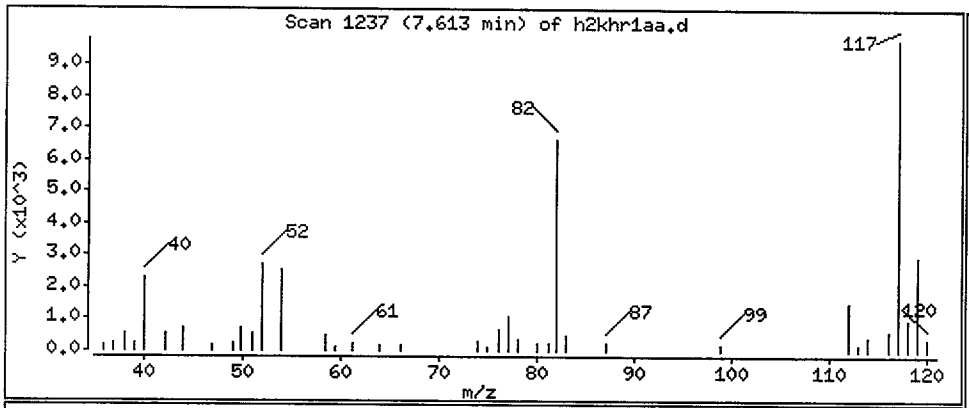
Operator: 22980

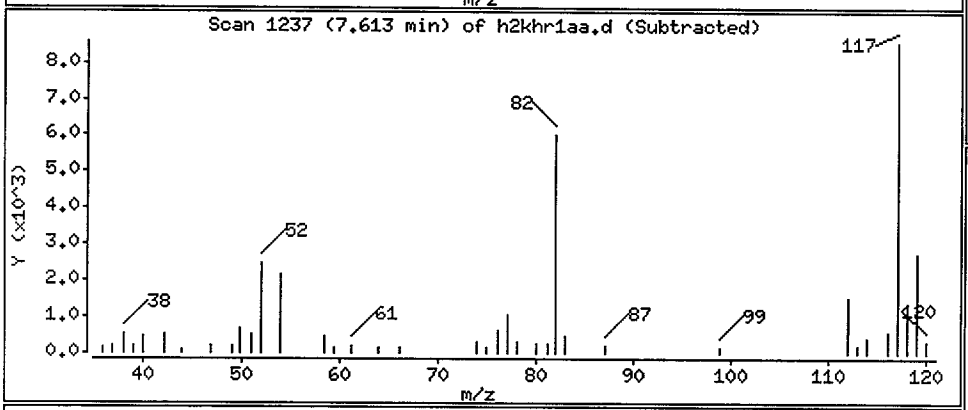
Column phase: J+W 624

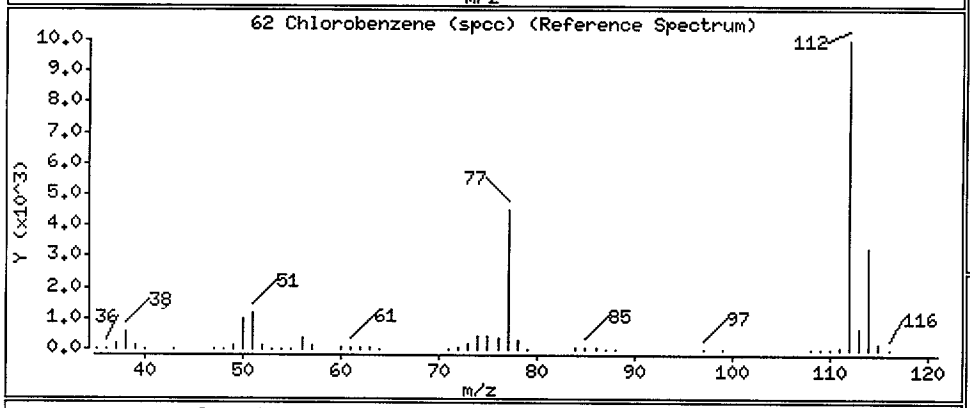
Column diameter: 0.18

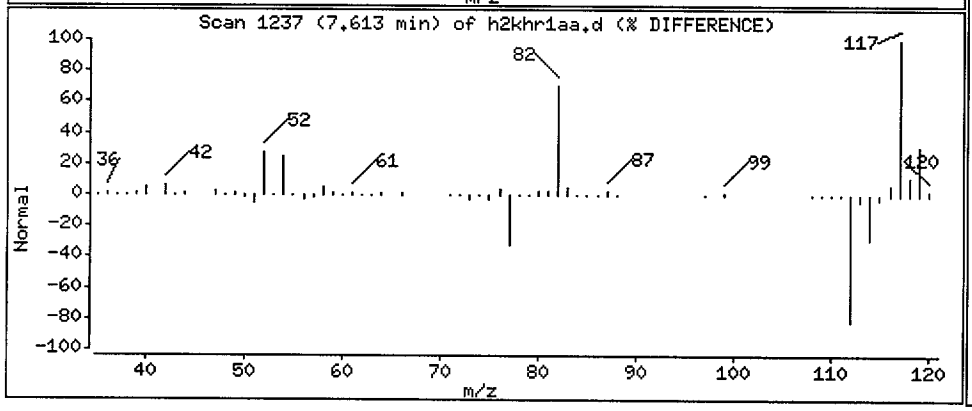
62 Chlorobenzene (spcc)

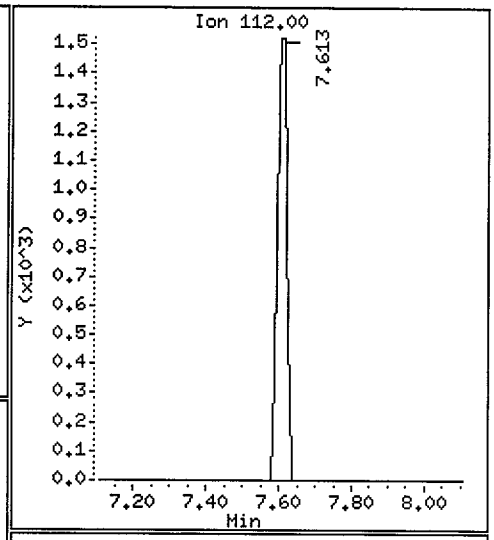
Concentration: 0.0011322 ug

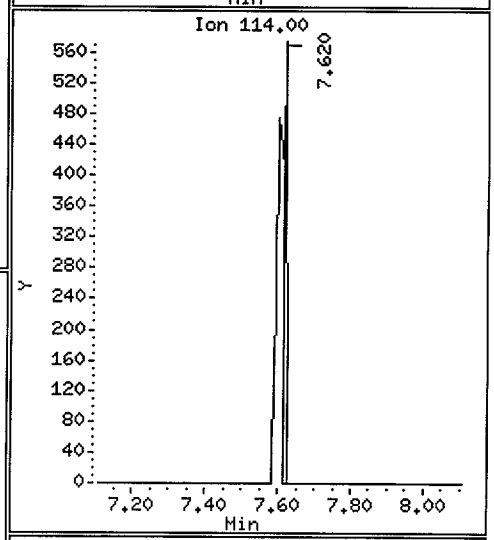


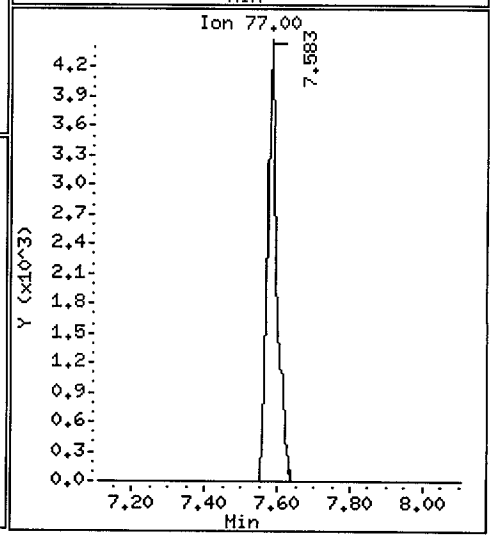












Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Report Date: 18-Apr-2006 14:58

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d
Lab Smp Id: H2KHR1AA Client Smp ID: AUDIT VOST #2
Inj Date : 07-APR-2006 19:49
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHR1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	7.583	1310218	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl- Si				CAS #: 541-05-9			
6.719	197795	1.50963427	0.037741	91	NIST02.1	71177	2

4/19/06 tt

Data File: /var/chem/gcms/mx.i/X040706.b/h2khr1aa.d

Date : 07-APR-2006 19:49

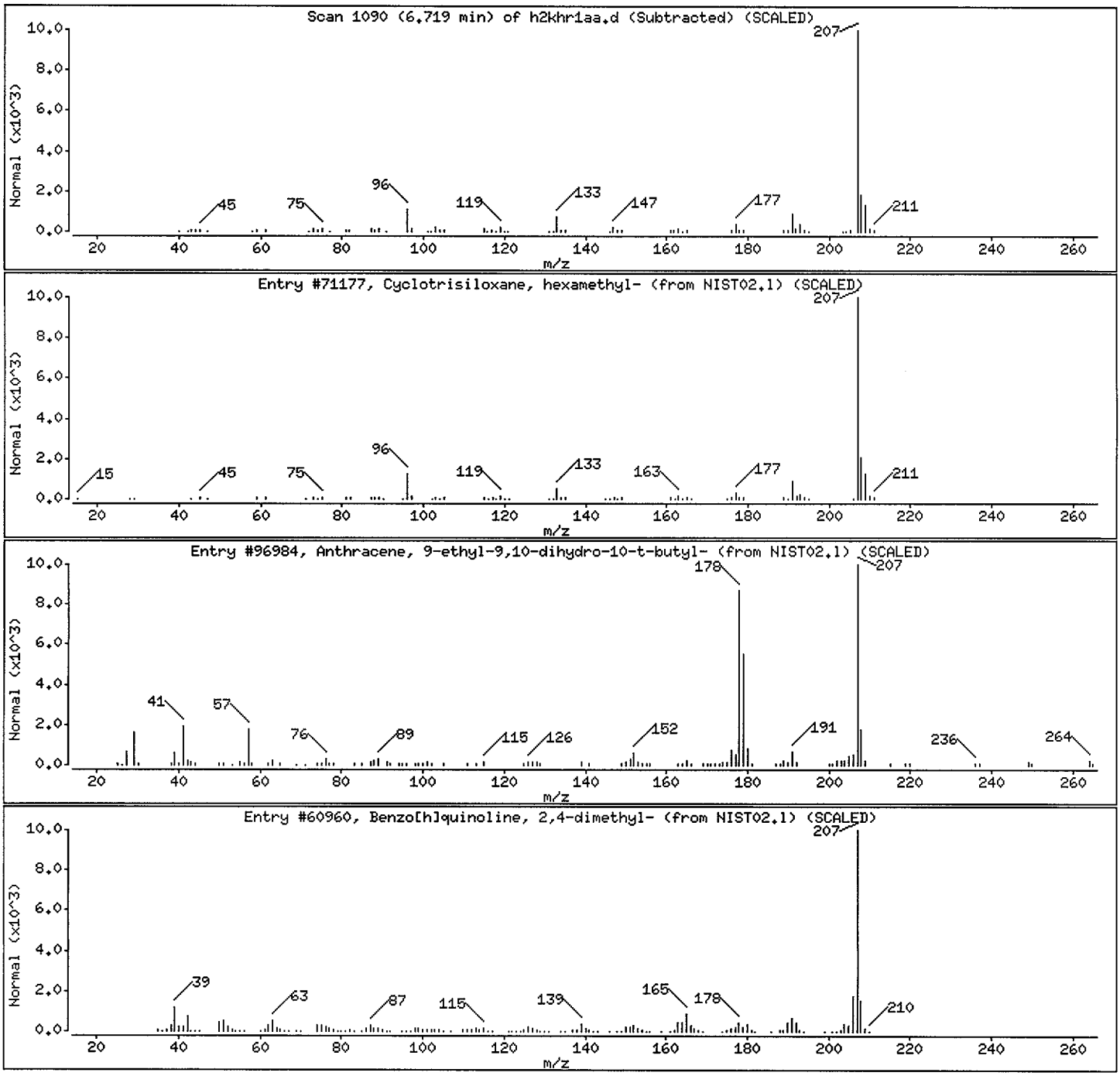
Client ID: AUDIT VOST #2 Instrument: mx.i

Sample Info: H2KHR1AA,1,0,,,

Operator: 22980

Column phase: J+W 624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.1	71177	91	C6H18O3Si3	222
Anthracene, 9-ethyl-9,10-dihydro-10-t-bu	1000154-57-7	NIST02.1	96984	39	C20H24	264
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.1	60960	38	C15H13N	207



STL Knoxville - ACS

Client Sample ID: AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #...: H6D030169-041 **Work Order #...:** H2KHV1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.39**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.057**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.084 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.045**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0013 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.069**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #...: H6D030169-041 **Work Order #...:** H2KHV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.072**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	77	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	82	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #: H6D030169-041 **Work Order #:** H2KHV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d
Report Date: 07-Apr-2006 19:40

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2khv1aa.d
Lab Smp Id: H2KHV1AA Client Smp ID: AUDIT VOST #3
Inj Date : 07-APR-2006 19:24
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHV1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	1028025	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	200085	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.745	10.746	(1.000)	205884	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	135140	7.73177	0.19329
$ 5 1,2-Dichloroethane-d4	65	4.552	4.553	(0.939)	104746	7.68819	0.19220
$ 6 Toluene-d8	98	6.250	6.250	(0.824)	806687	8.23467	0.20587
$ 7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	176073	7.21289	0.18032
11 Chloromethane (spcc)	50	1.249	1.262	(0.258)	2160	0.04511	0.0011276
21 Acetone	43	2.381	2.381	(0.491)	22625	15.5395	0.38849
23 Carbon Disulfide	76	2.496	2.497	(0.515)	49571	0.63272	0.015818
26 Methylene Chloride	84	2.746	2.746	(0.566)	46047	2.89715	0.072429
33 *Vinyl Acetate	86	3.263	3.421	(0.673)	1174	1.00410	~~0.035102~~
36 2-Butanone	43	3.877	3.871	(0.799)	7635	3.36176	0.084044
38 *THF	42	4.114	4.109	(0.848)	1195	0.85919	0.021480
39 Chloroform (ccc)	83	4.139	4.139	(0.853)	108018	2.76455	0.069114
41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	66695	1.80730	0.045182
42 1,1-Dichloropropene	75	4.607	4.437	(0.950)	3897	0.09577	~~0.0023941~~
43 Benzene	78	4.607	4.607	(0.950)	235545	2.26238	0.056559
44 1,2-Dichloroethane	62	4.607	4.620	(0.950)	2463	0.14060	~~0.0035151~~
52 4-Methyl-2-pentanone	43	6.256	6.147	(1.290)	6038	1.11013	~~0.027753~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d
Report Date: 07-Apr-2006 19:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
53 Toluene (ccc)	91	6.311	6.311	(0.832)	15369	0.13114	0.0032785
56 1,1,2-Trichloroethane	97	6.815	6.670	(0.899)	1239	0.13389	0.0033472
57 Tetrachloroethene	164	6.815	6.816	(0.899)	159449	6.33174	0.15829
60 Chlorodibromomethane	129	6.815	7.035	(0.899)	142654	12.4365	0.31091
62 Chlorobenzene (spcc)	112	7.606	7.607	(1.003)	3219	0.05351	0.0013377

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d
Report Date: 07-Apr-2006 19:40

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2khv1aa.d
Lab Smp Id: H2KHV1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: AUDIT VOST #3
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1028025	-10.54
2 Chlorobenzene-d5	214194	107097	428388	200085	-6.59
3 1,4 Dichlorobenze	242601	121300	485202	205884	-15.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	-0.01
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.00

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.

Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d
Report Date: 07-Apr-2006 19:40

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2KHV1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: AUDIT VOST #3
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

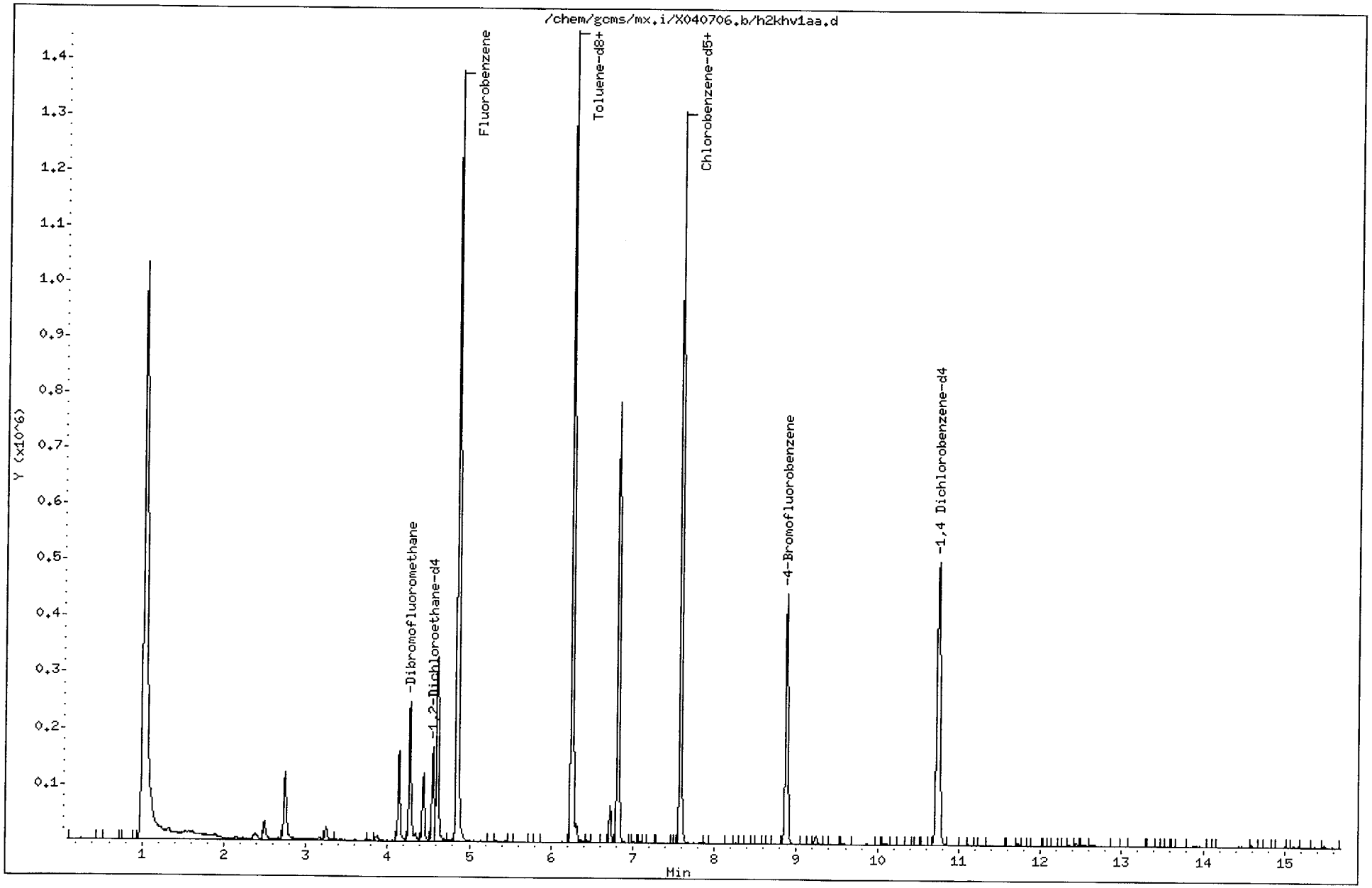
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.19329	77.32	50-150
$ 5 1,2-Dichloroethane	0.25000	0.19220	76.88	50-150
$ 6 Toluene-d8	0.25000	0.20587	82.35	50-150
$ 7 4-Bromofluorobenze	0.25000	0.18032	72.13	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d
Date : 07-APR-2006 19:24
Client ID: AUDIT VOST #3
Sample Info: H2KHV1AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

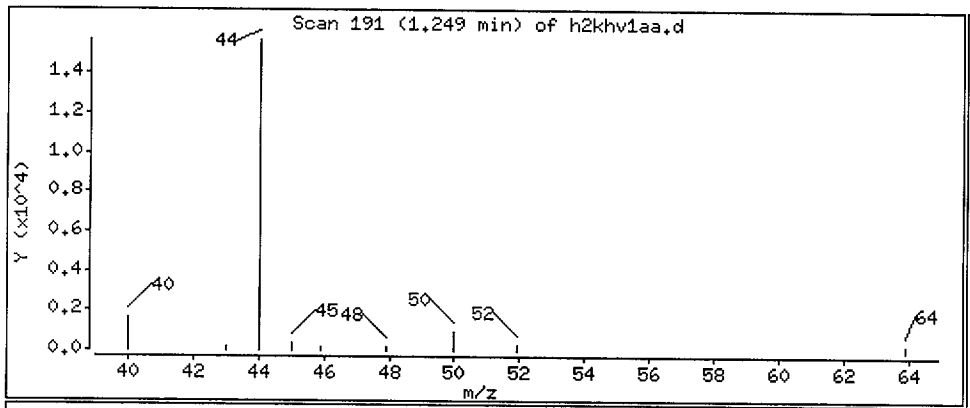
Operator: 22980

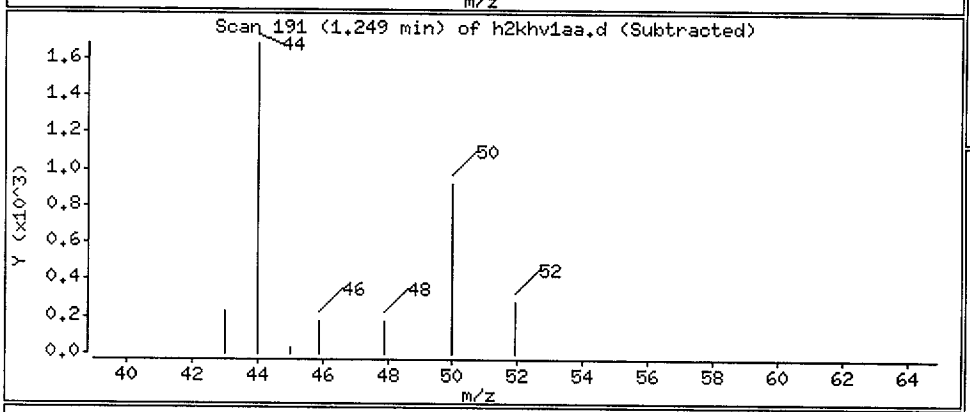
Column phase: J+W 624

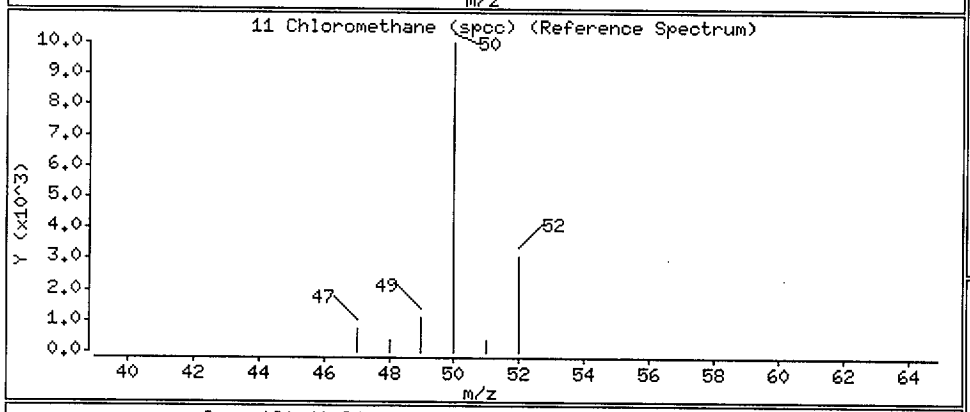
Column diameter: 0.18

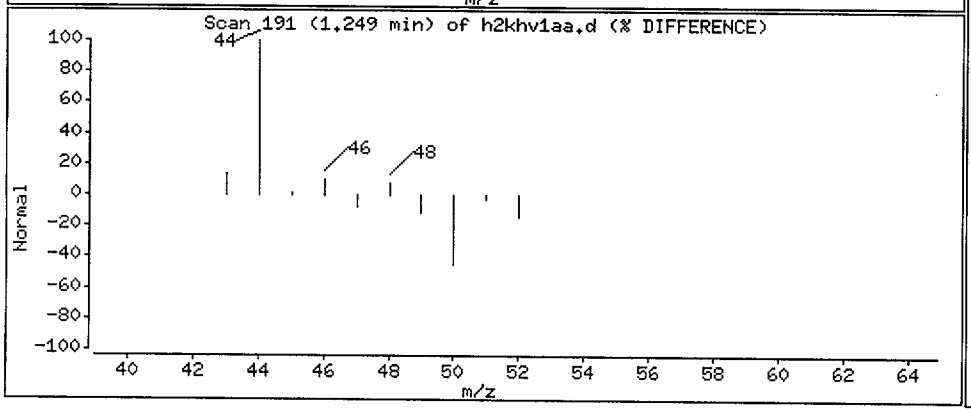
11 Chloromethane (spcc)

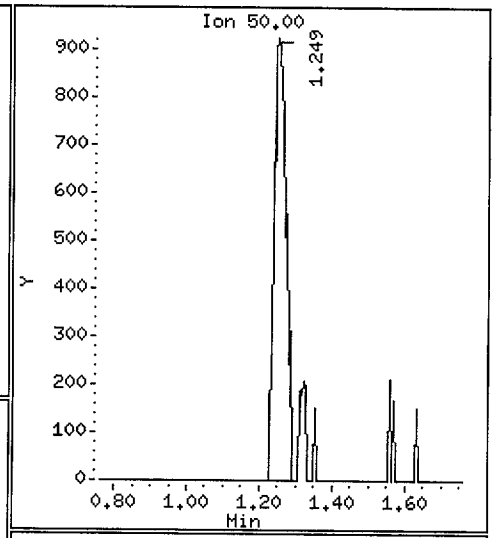
Concentration: 0.0011276 ug

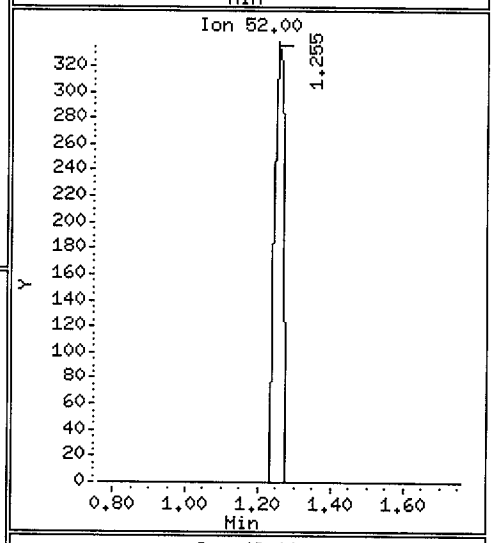


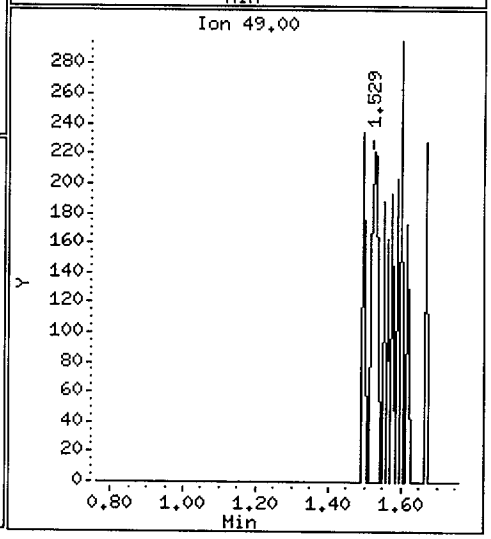












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

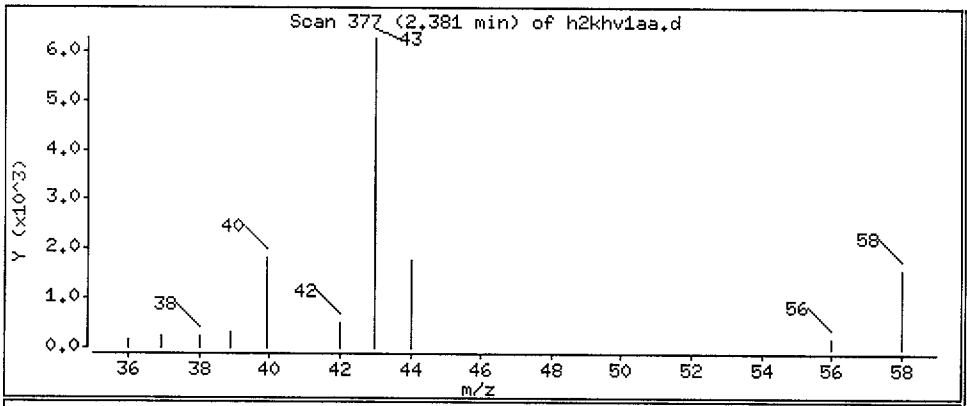
Operator: 22980

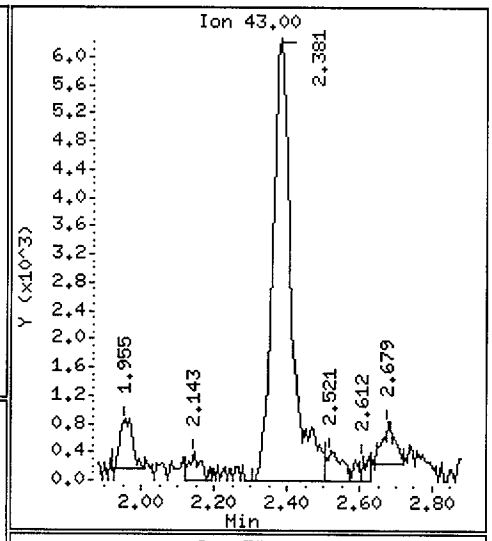
Column phase: J+W 624

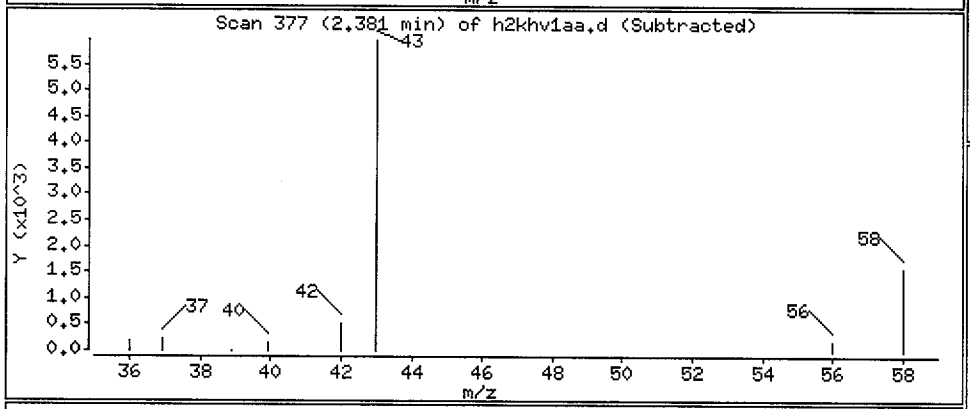
Column diameter: 0.18

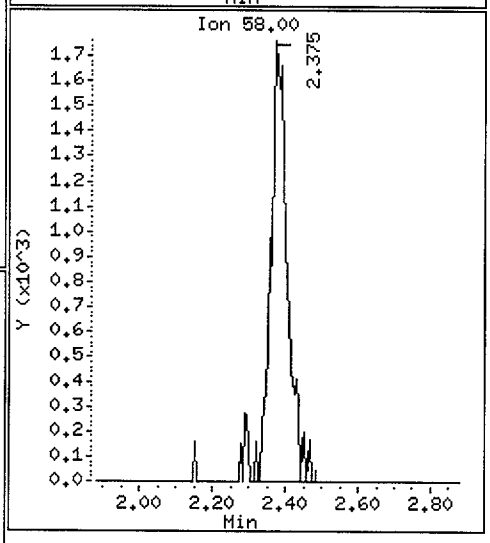
21 Acetone

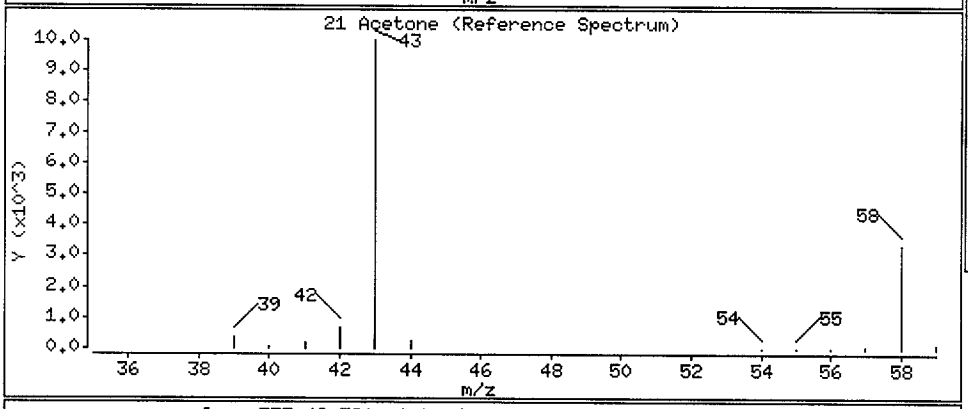
Concentration: 0.38849 ug

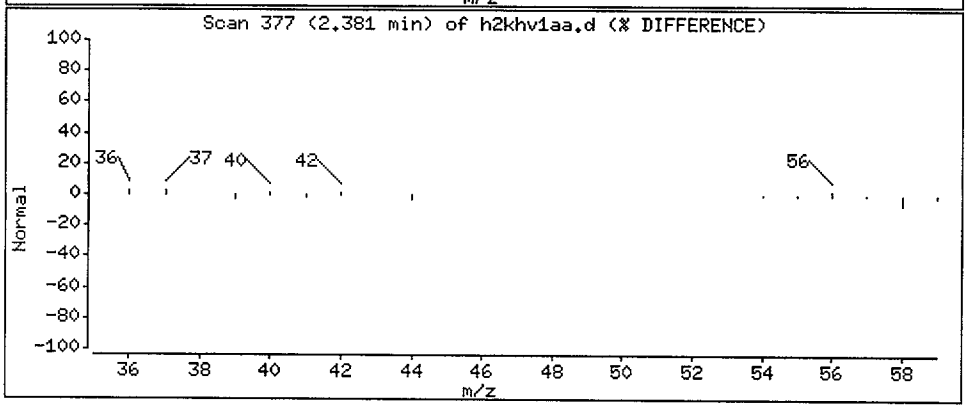












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

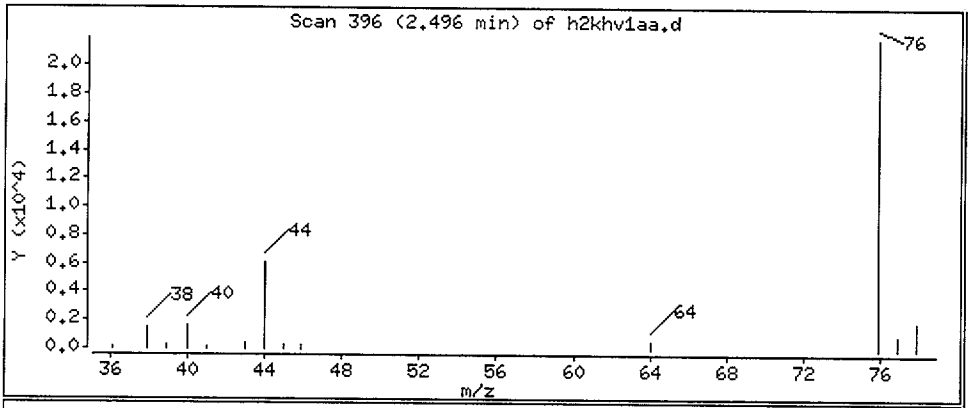
Operator: 22980

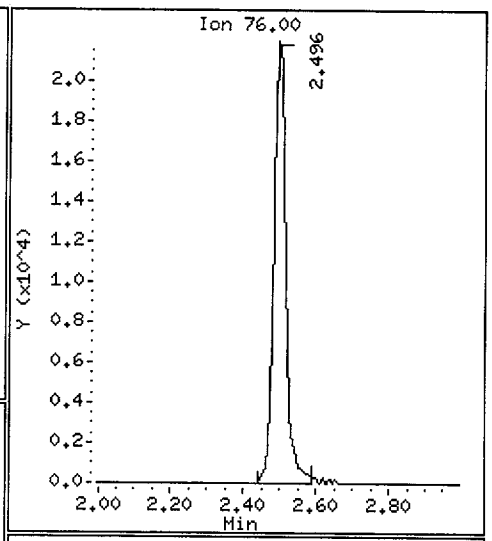
Column phase: J+W 624

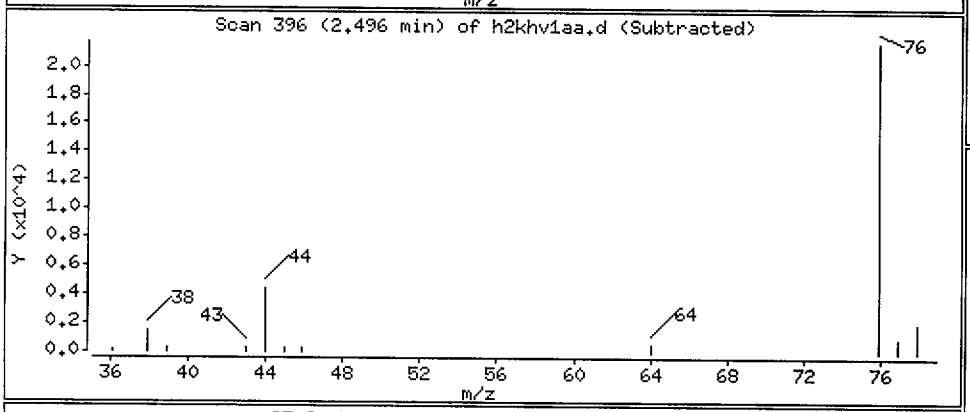
Column diameter: 0.18

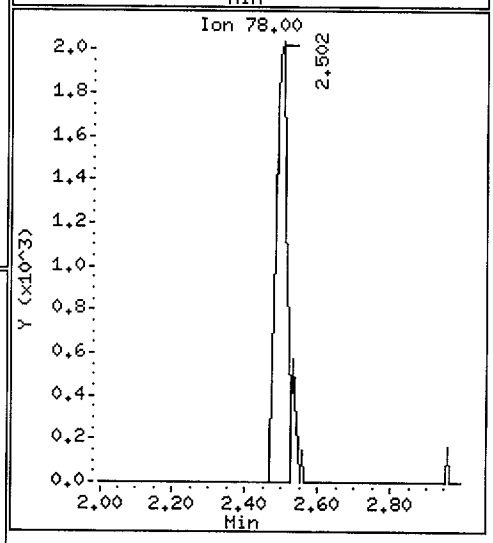
23 Carbon Disulfide

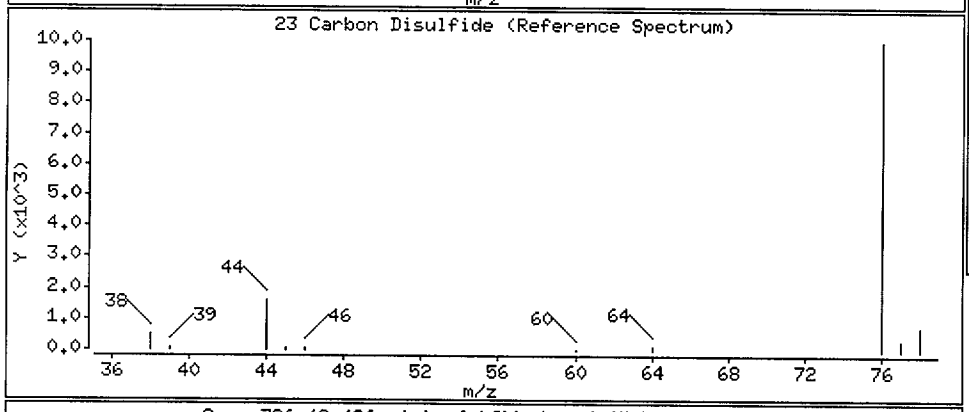
Concentration: 0.015818 ug

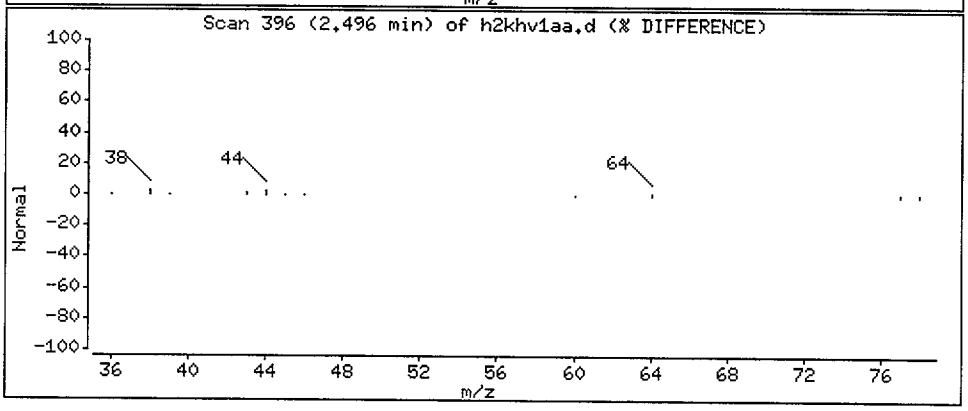












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

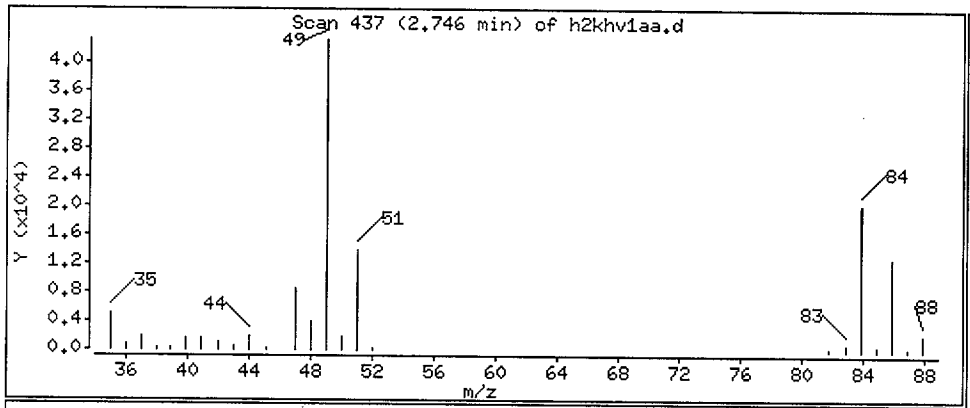
Operator: 22980

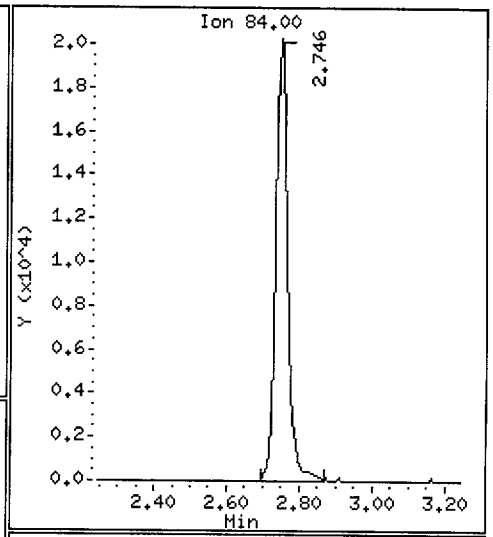
Column phase: J+W 624

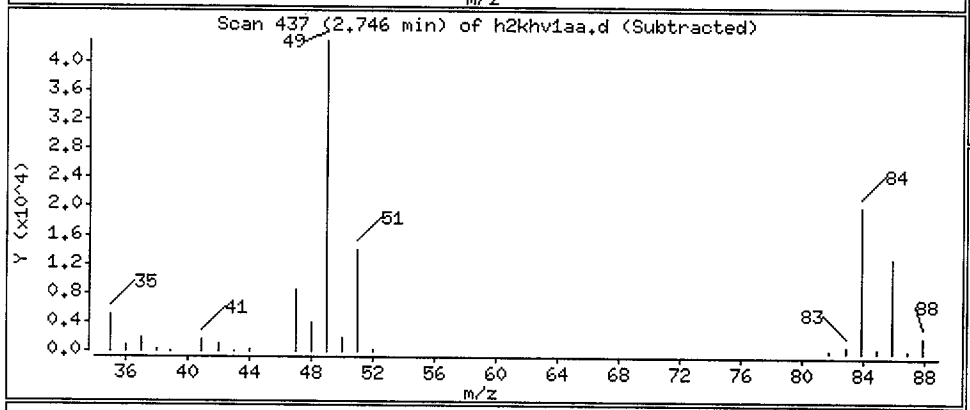
Column diameter: 0.18

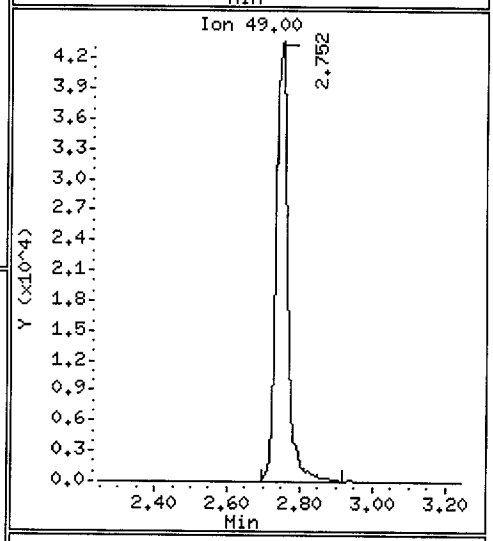
26 Methylene Chloride

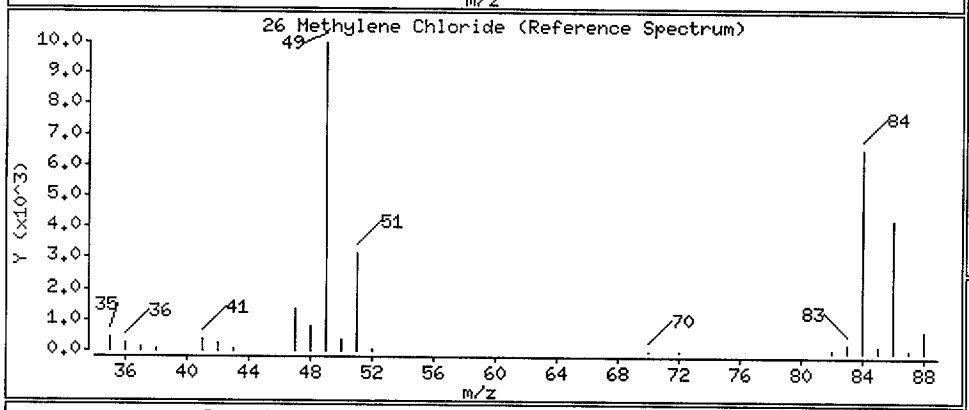
Concentration: 0.072429 ug

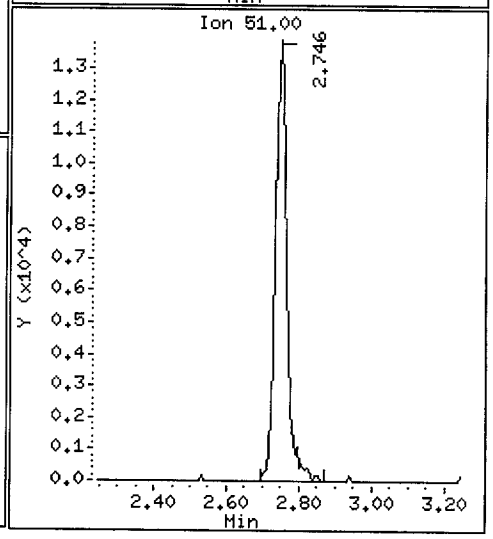


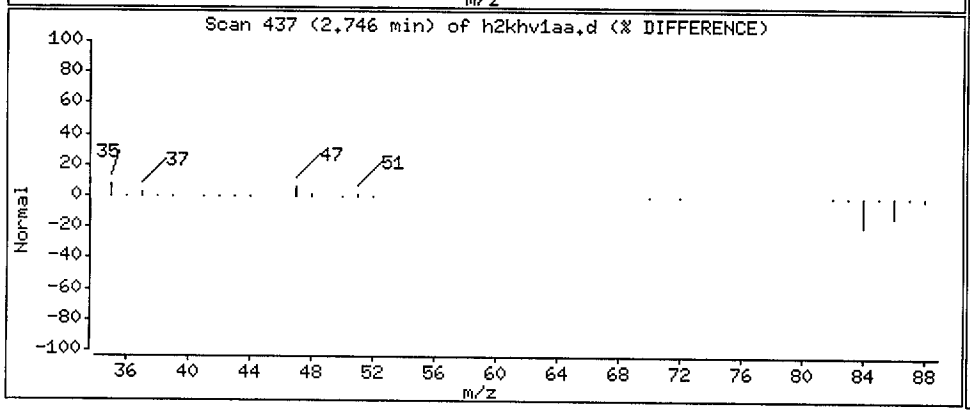












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

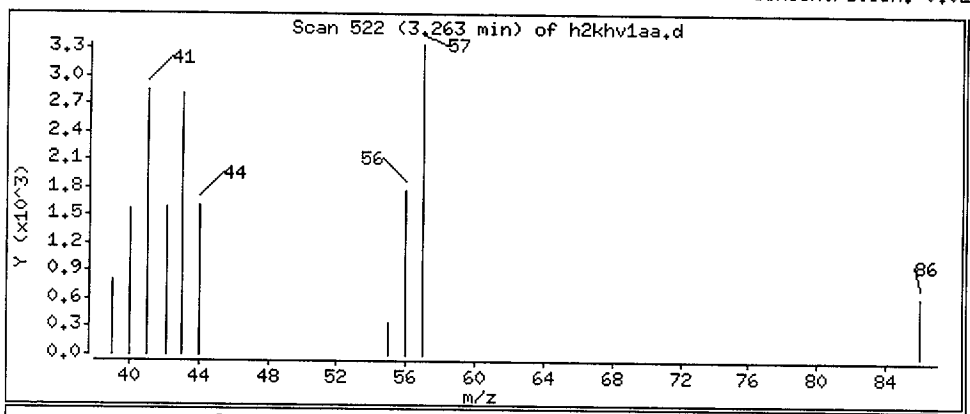
Operator: 22980

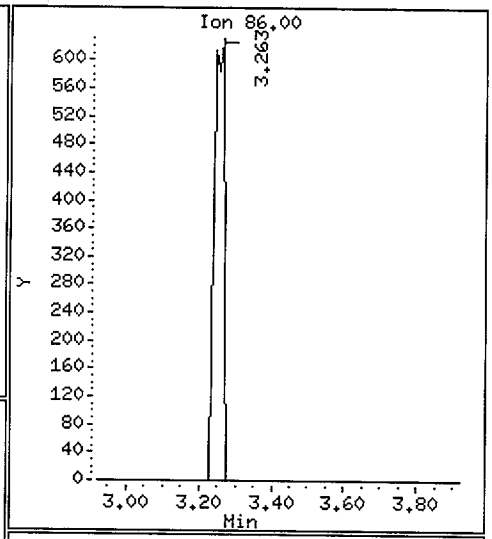
Column phase: J+W 624

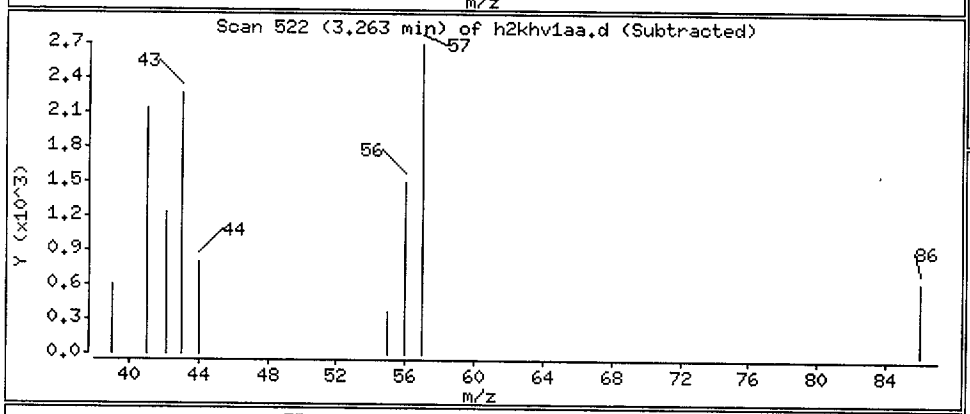
Column diameter: 0.18

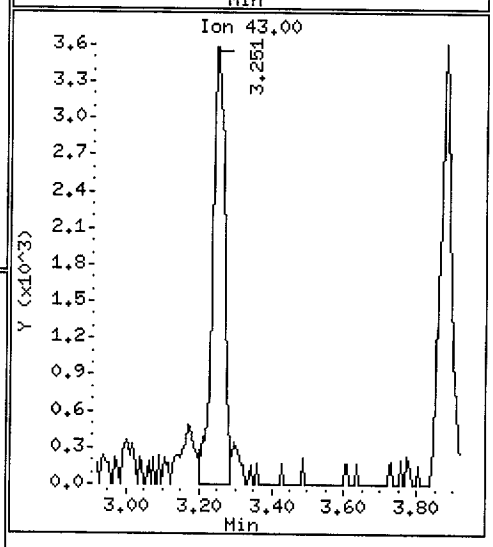
33 *Vinyl Acetate

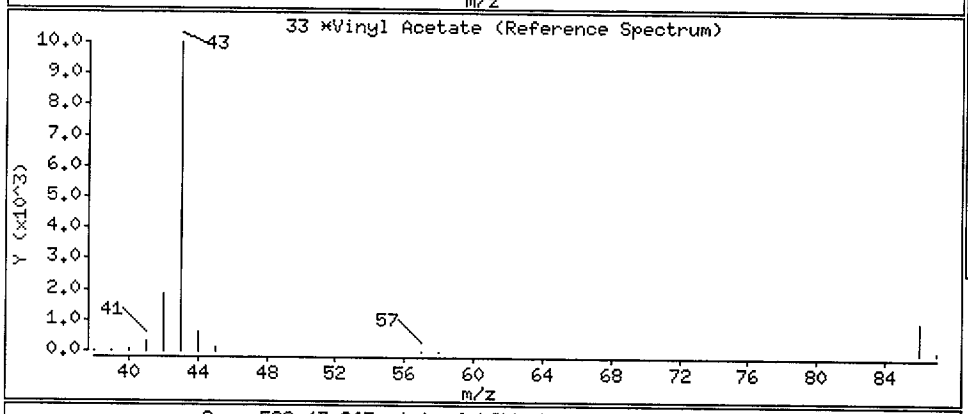
Concentration: 0.025102 ug

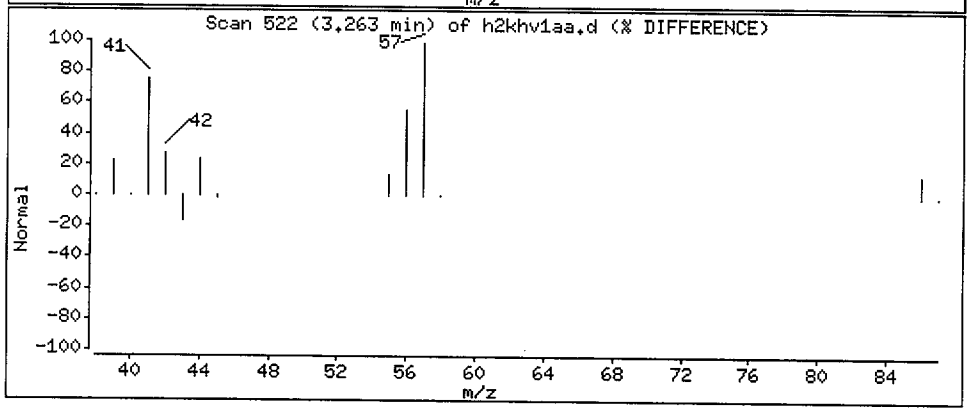












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

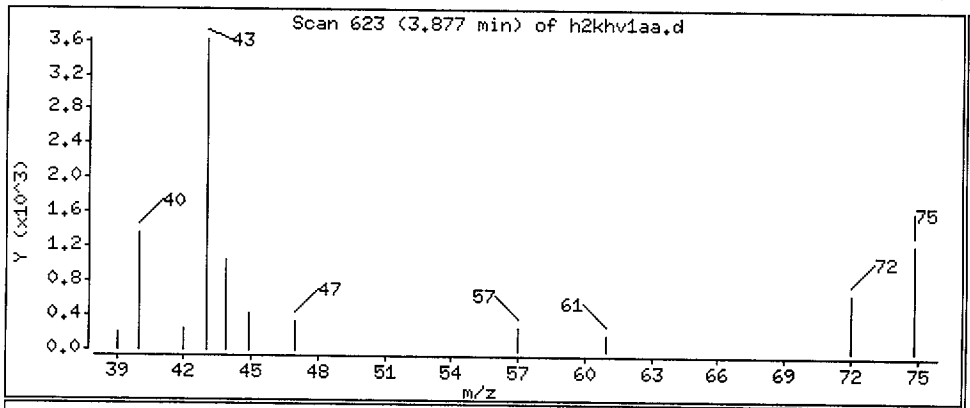
Operator: 22980

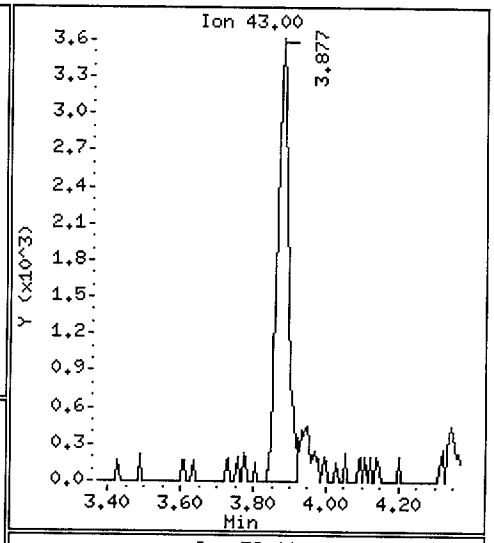
Column phase: J+W 624

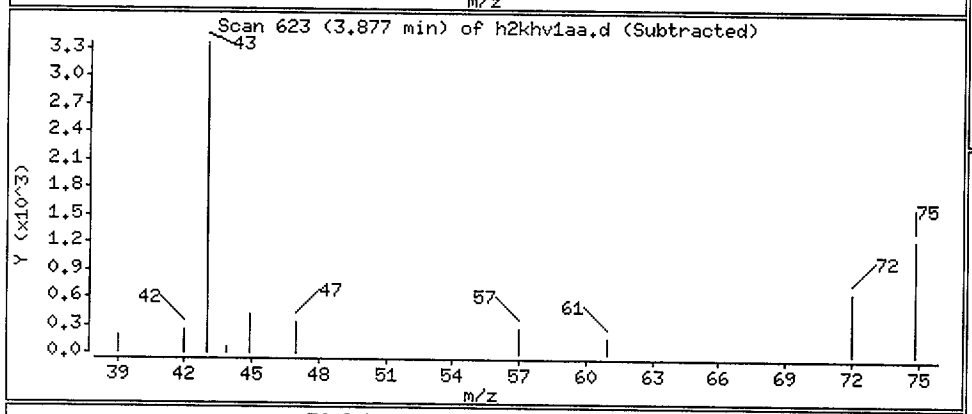
Column diameter: 0.18

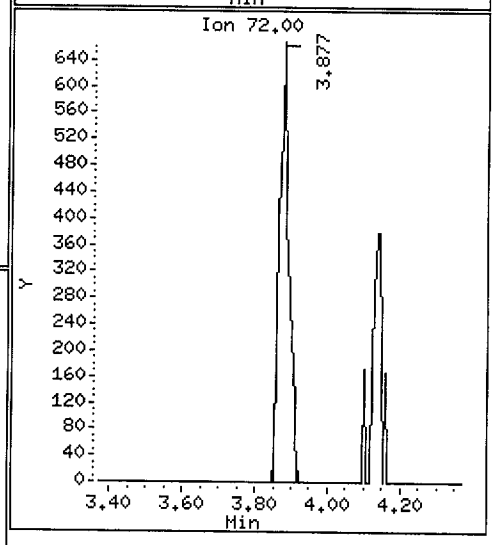
36 2-Butanone

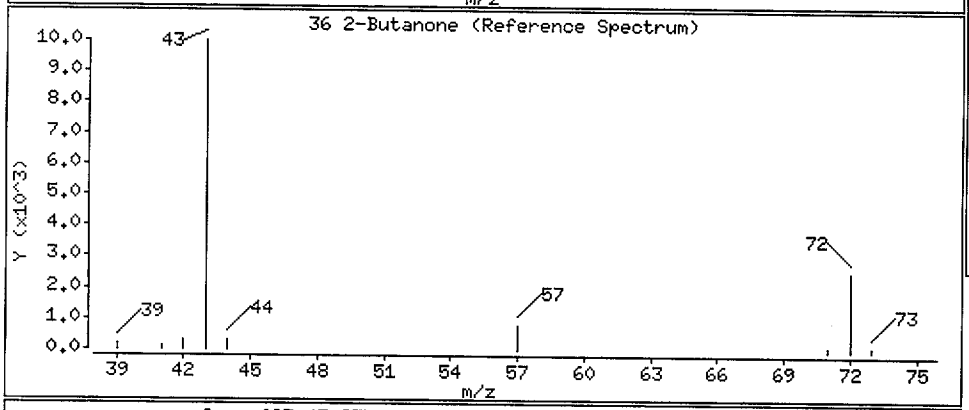
Concentration: 0.084044 ug

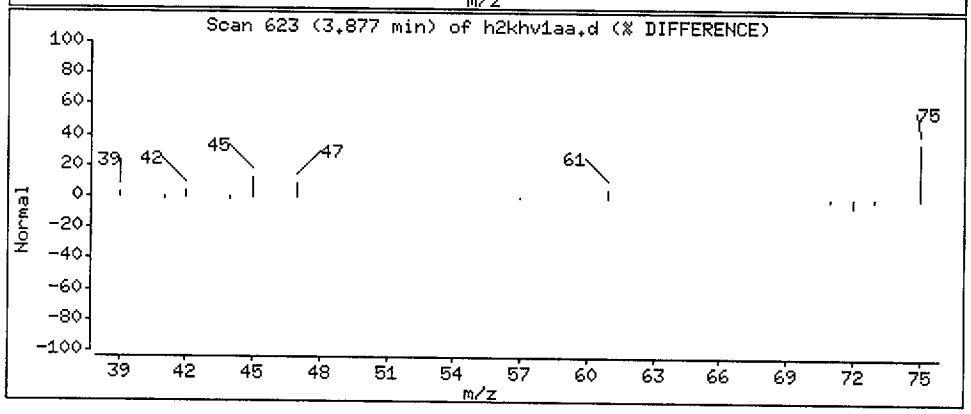












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

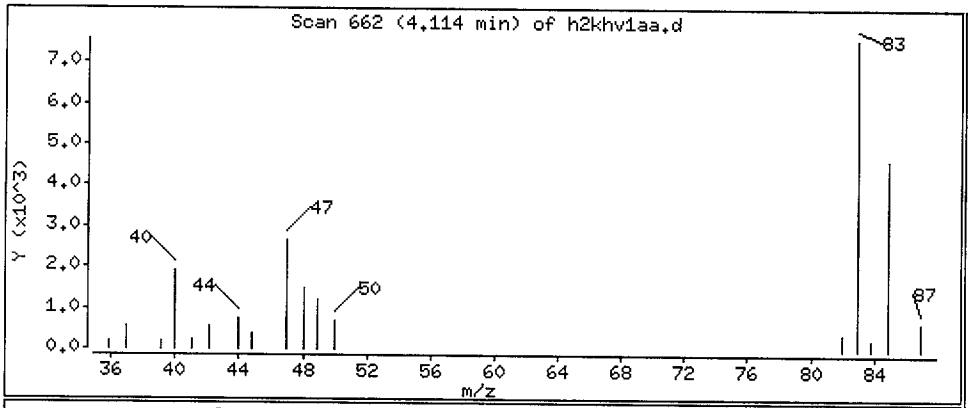
Operator: 22980

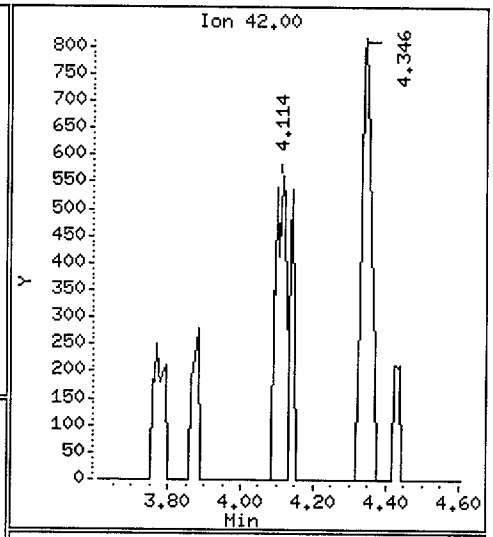
Column phase: J+W 624

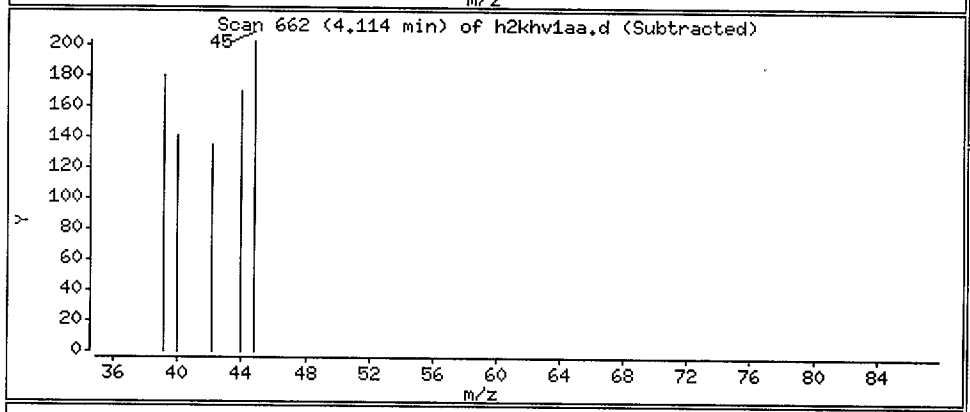
Column diameter: 0.18

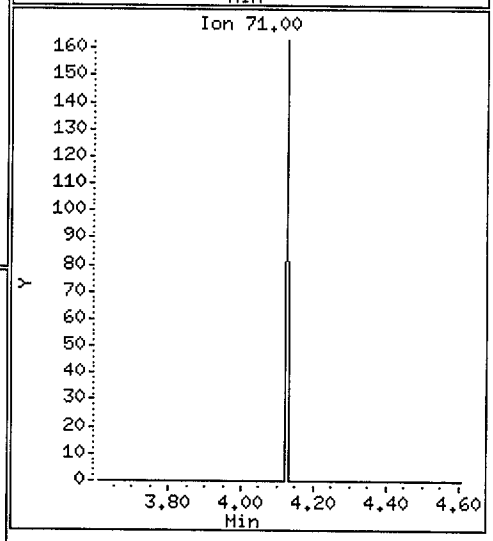
38 *THF

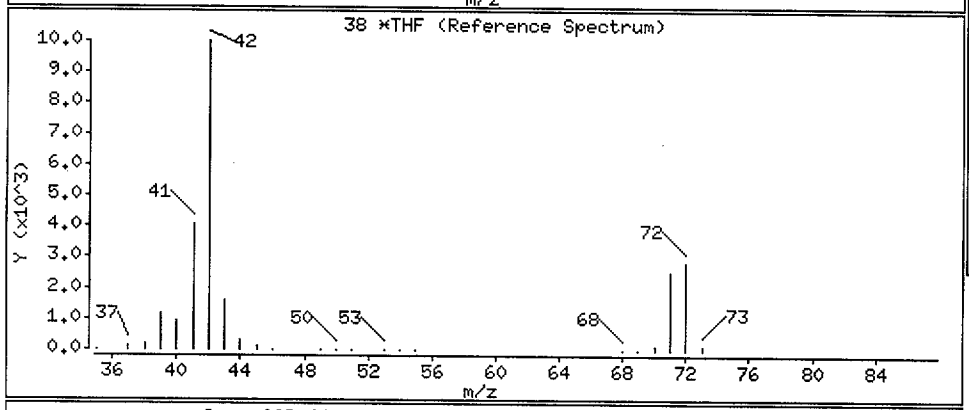
Concentration: 0.021480 ug

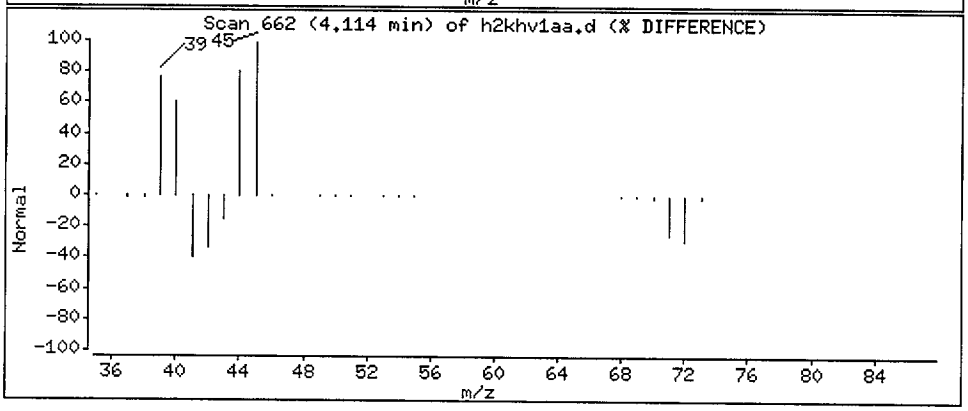












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

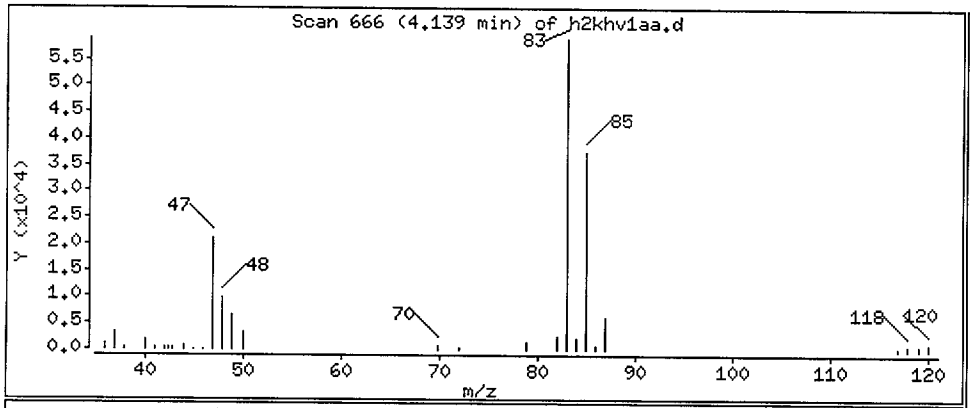
Operator: 22980

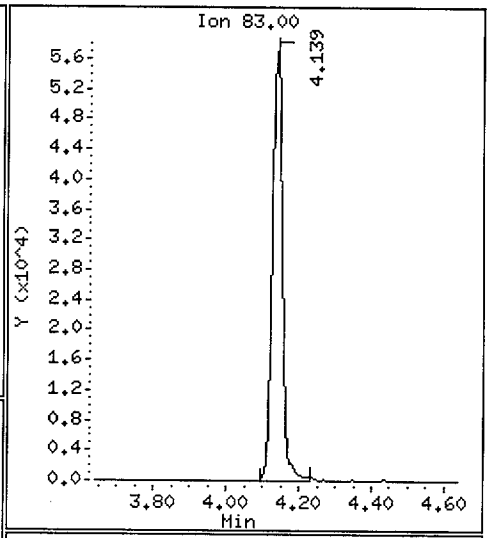
Column phase: J+W 624

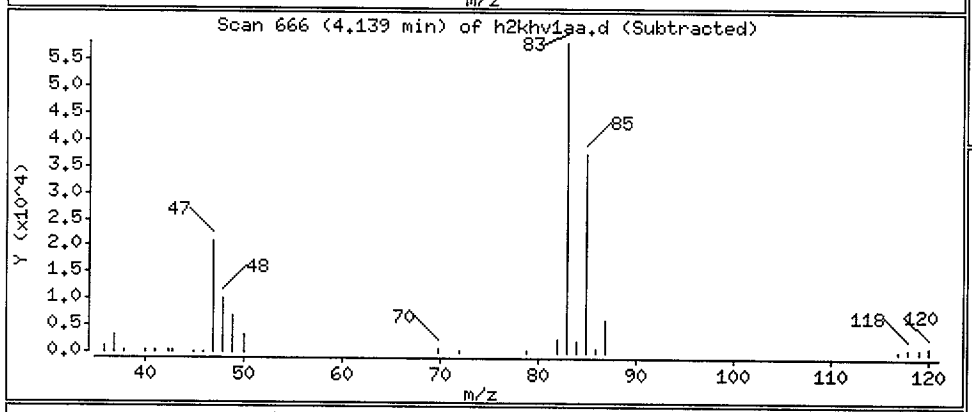
Column diameter: 0.18

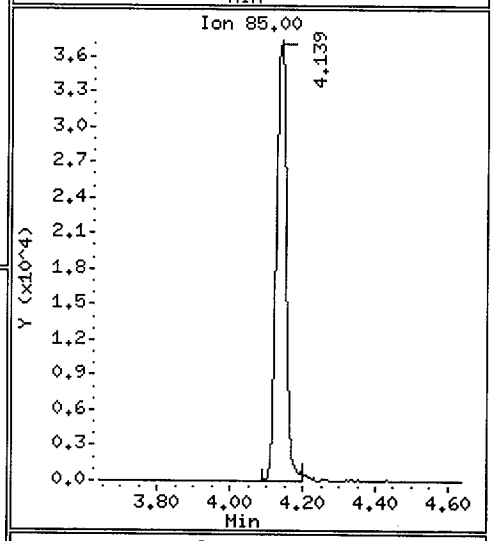
39 Chloroform (ccc)

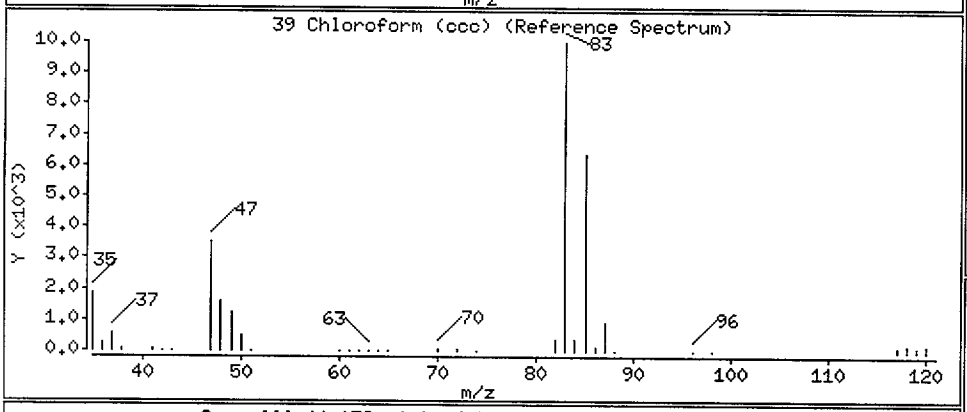
Concentration: 0.069114 ug

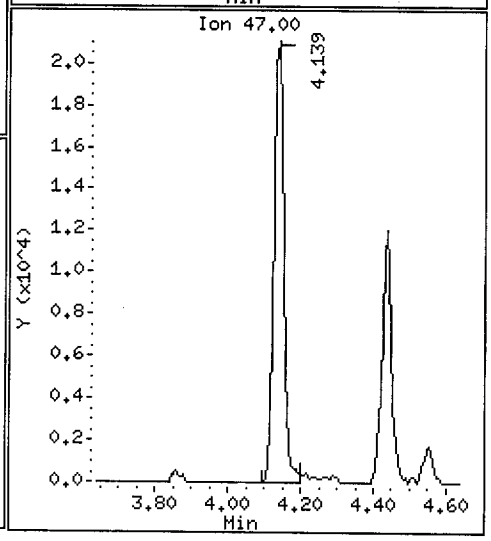


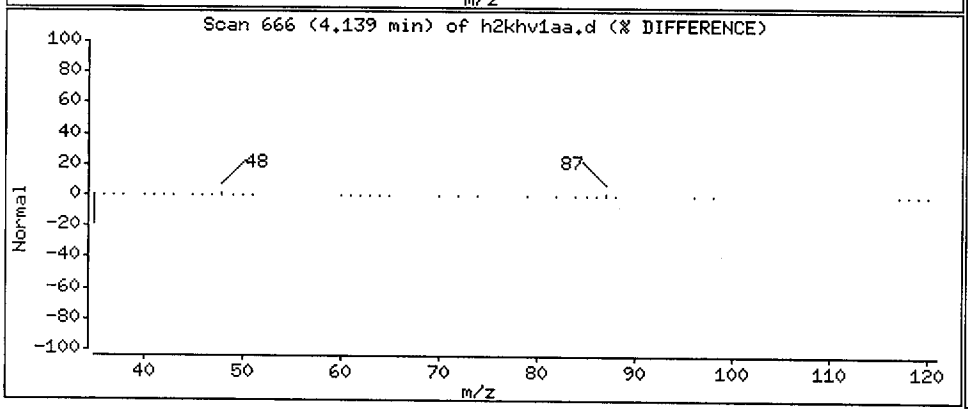












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

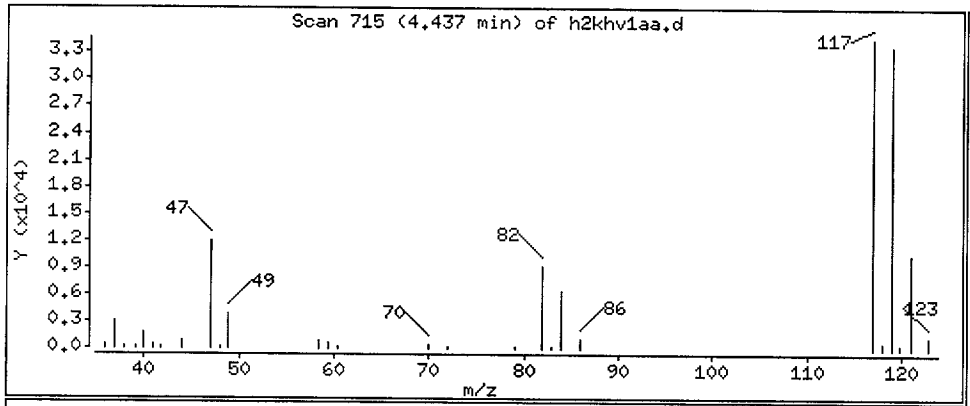
Operator: 22980

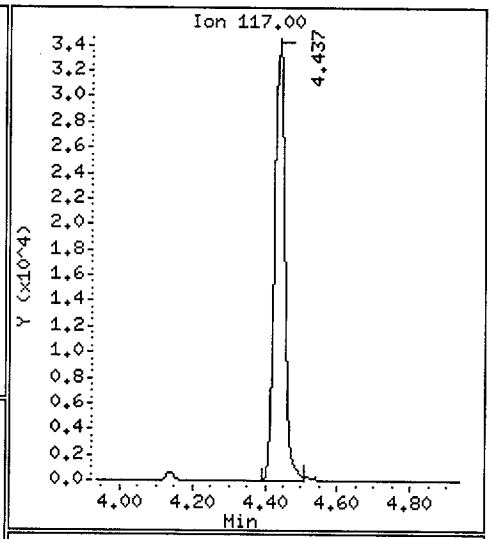
Column phase: J+W 624

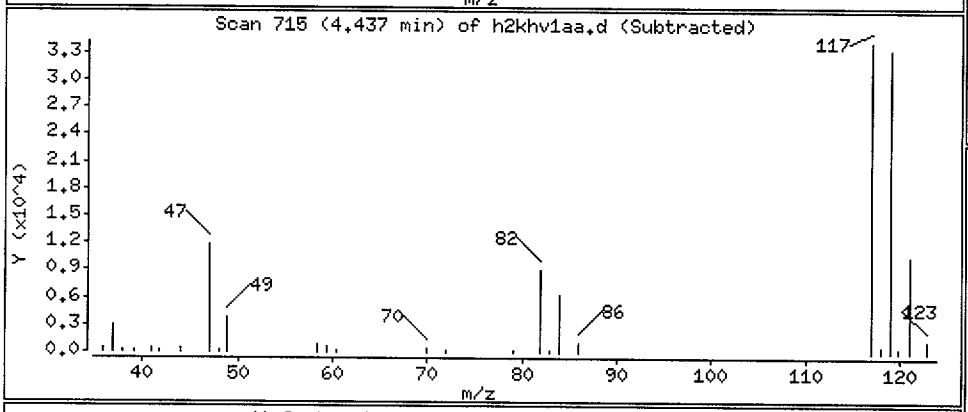
Column diameter: 0.18

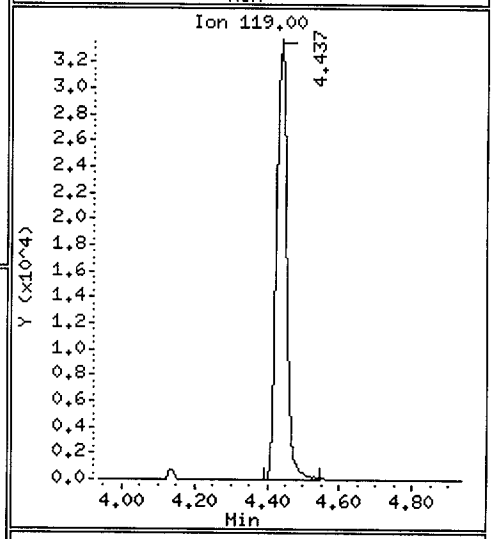
41 Carbon Tetrachloride

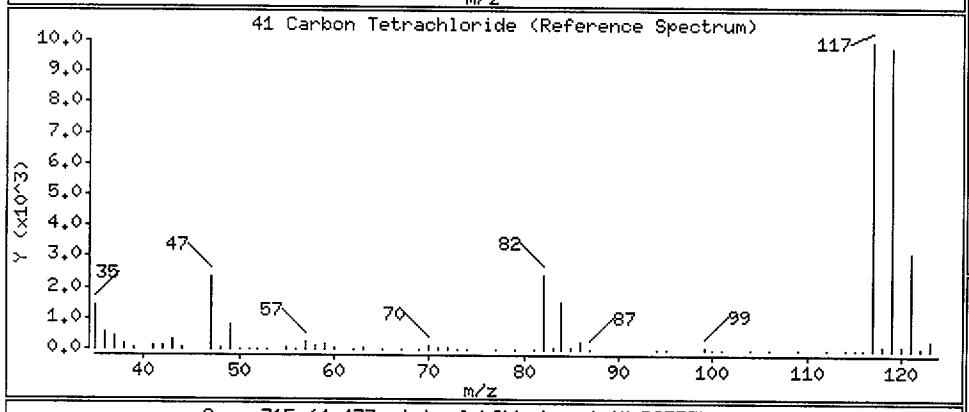
Concentration: 0.045182 ug

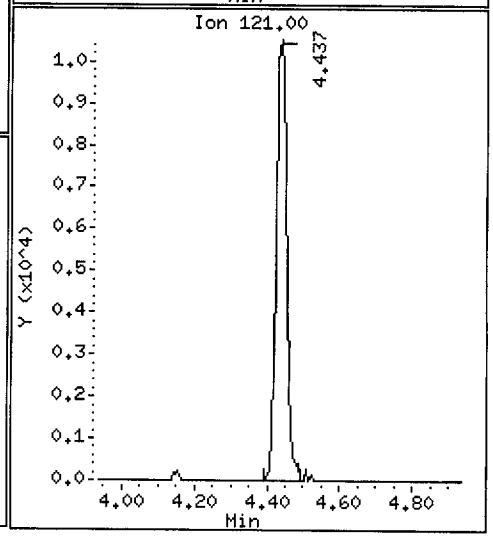


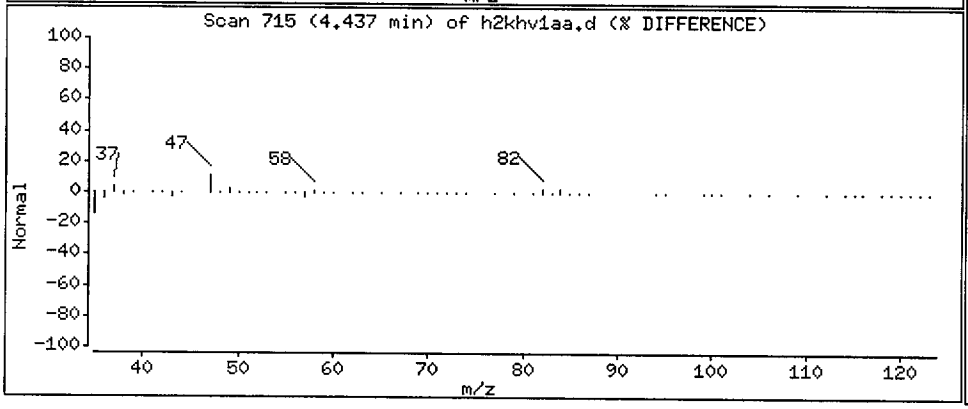












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

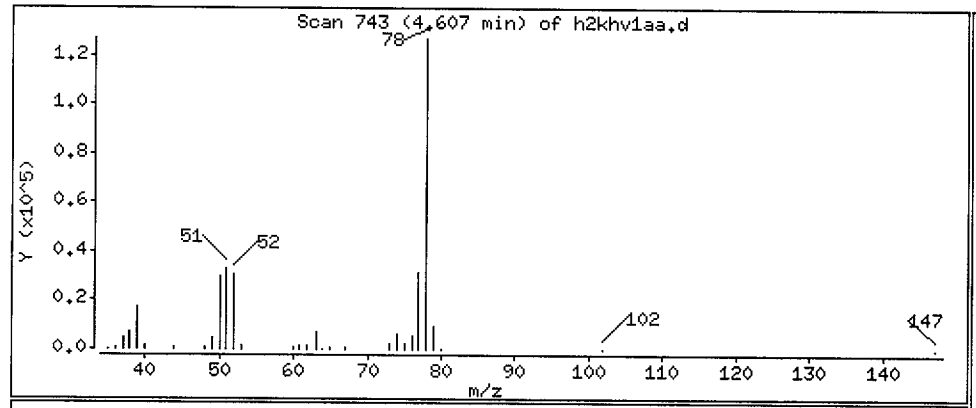
Operator: 22980

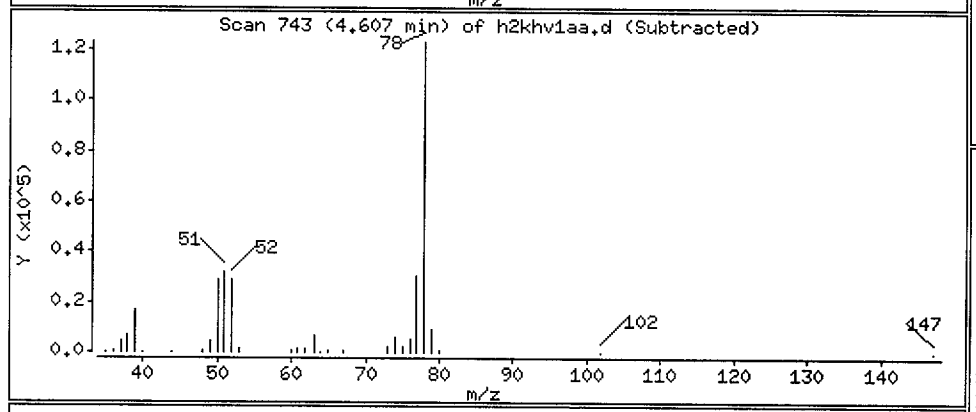
Column phase: J+W 624

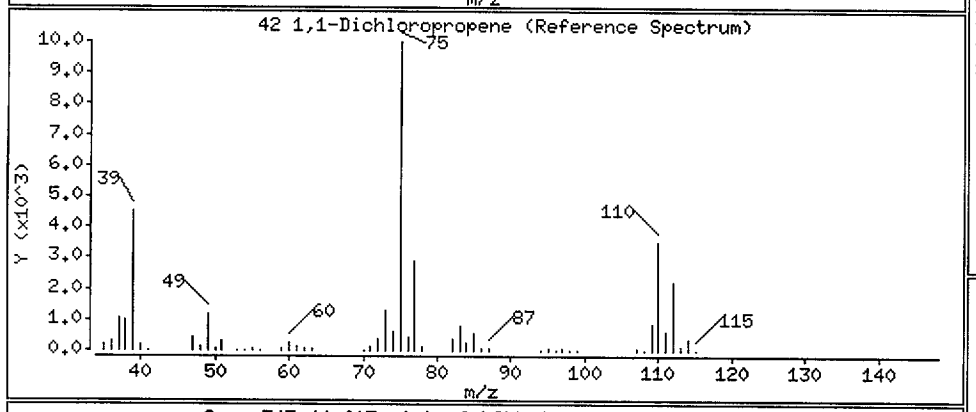
Column diameter: 0.18

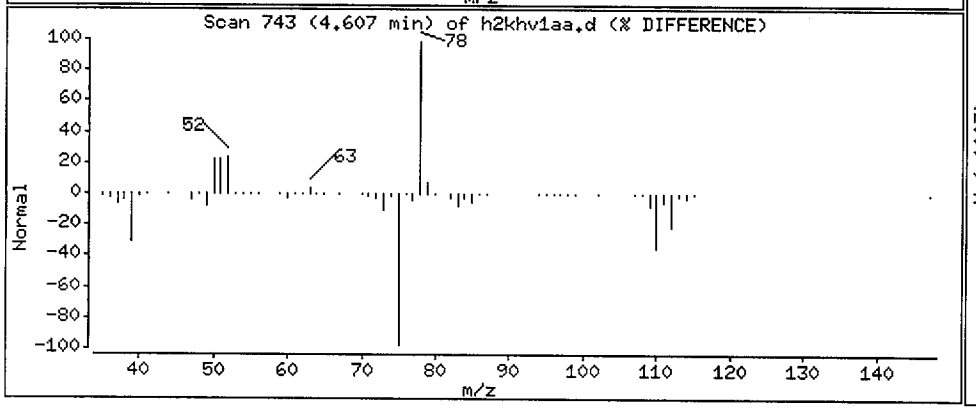
42 1,1-Dichloropropene

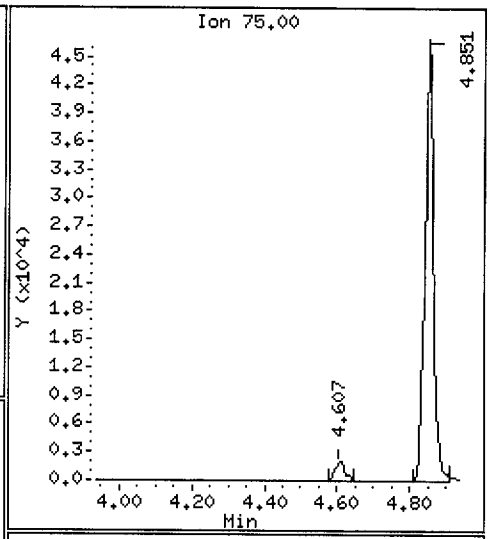
Concentration: 0.0023941 ug

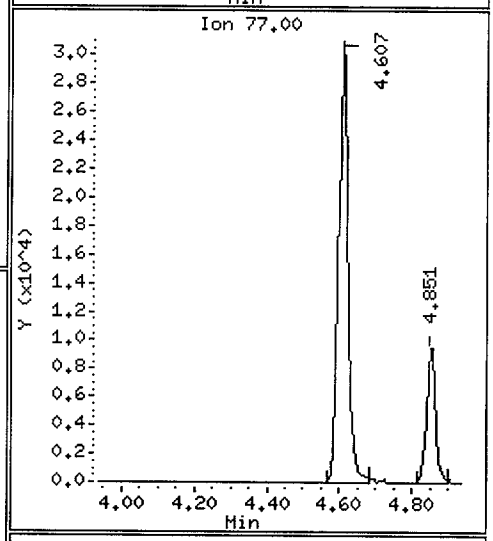


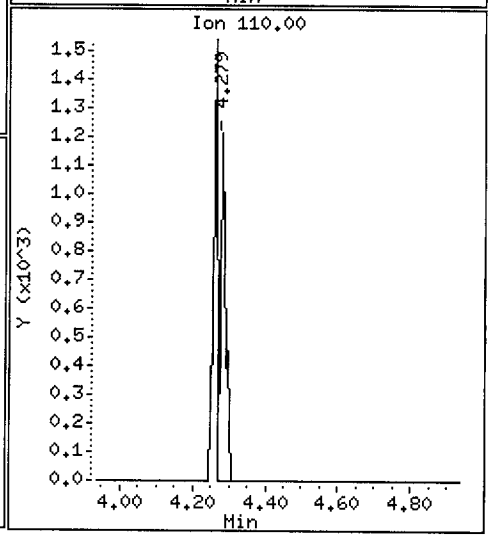












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

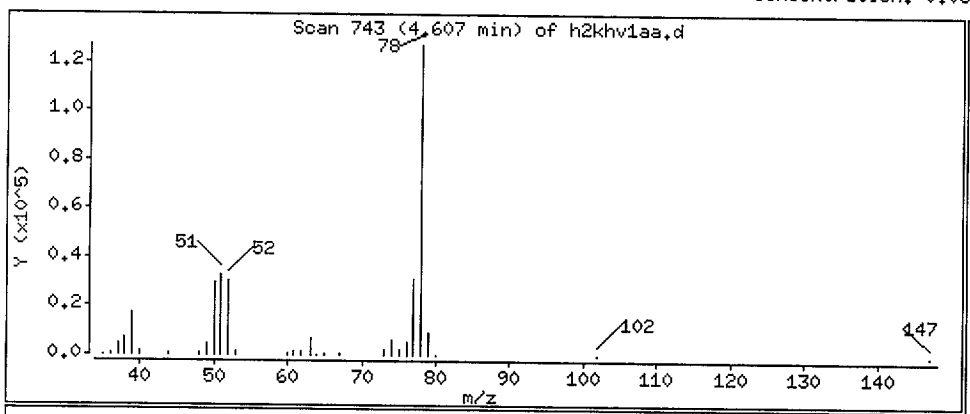
Operator: 22980

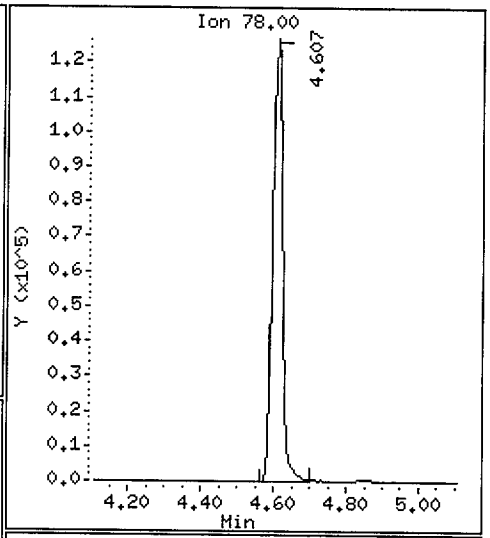
Column phase: J+W 624

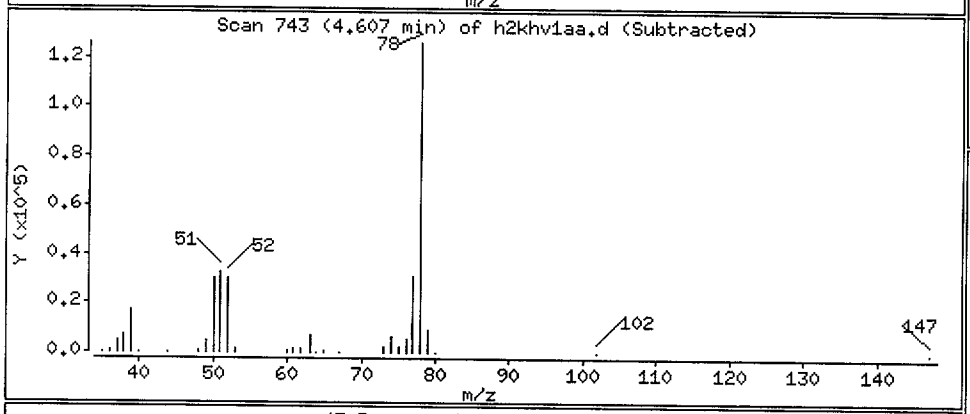
Column diameter: 0.18

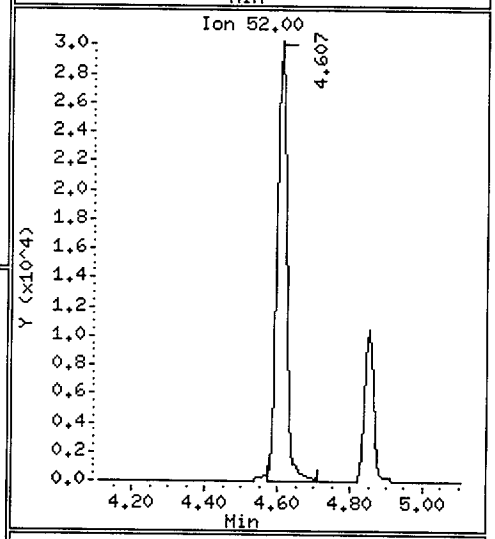
43 Benzene

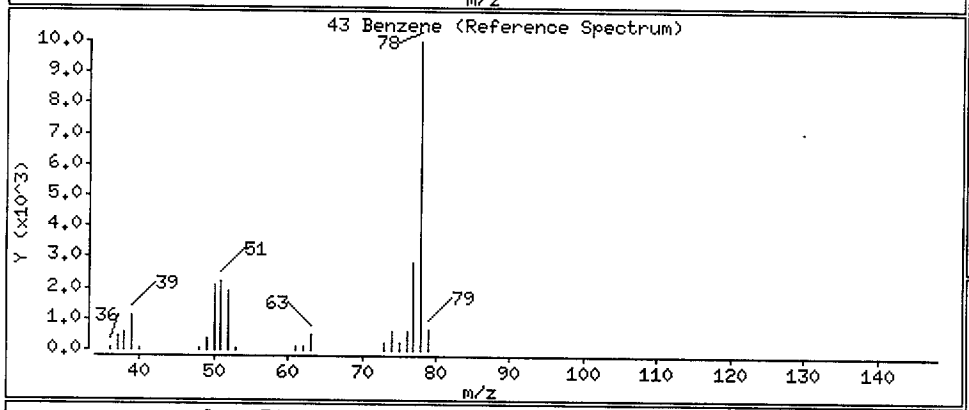
Concentration: 0.056559 ug

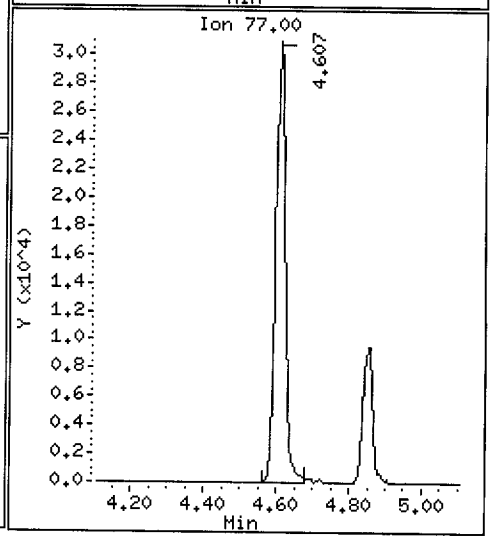


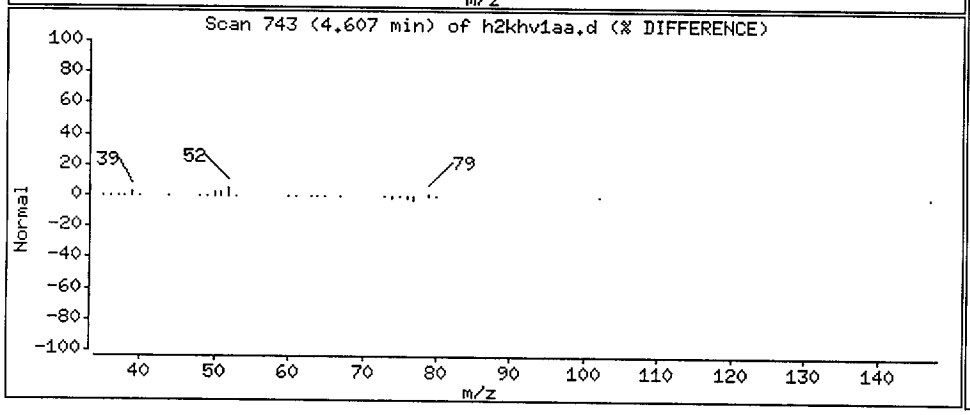












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

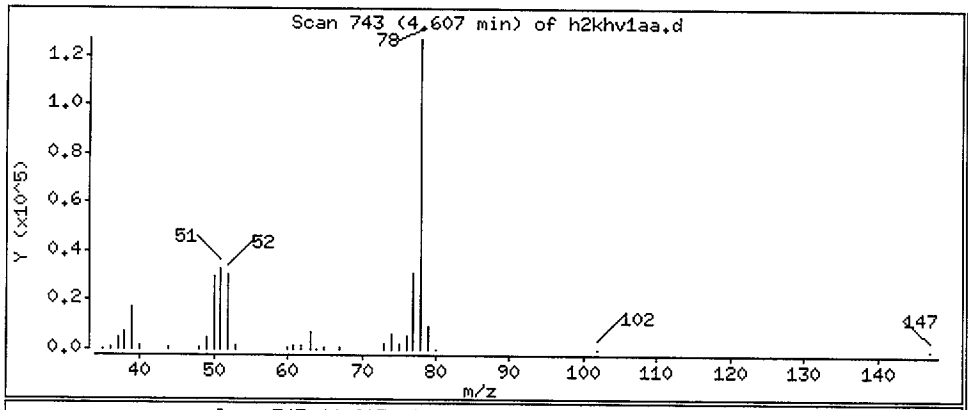
Operator: 22980

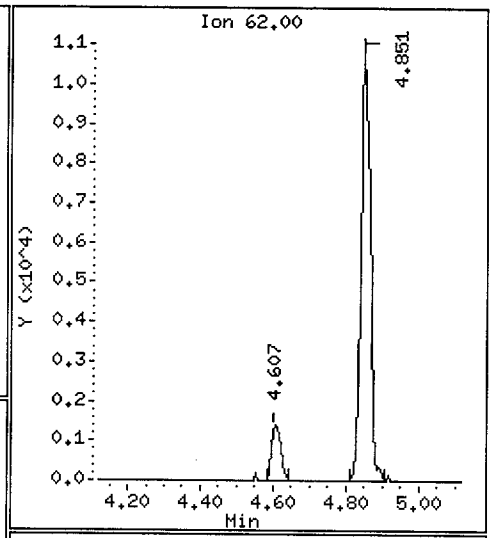
Column phase: J+W 624

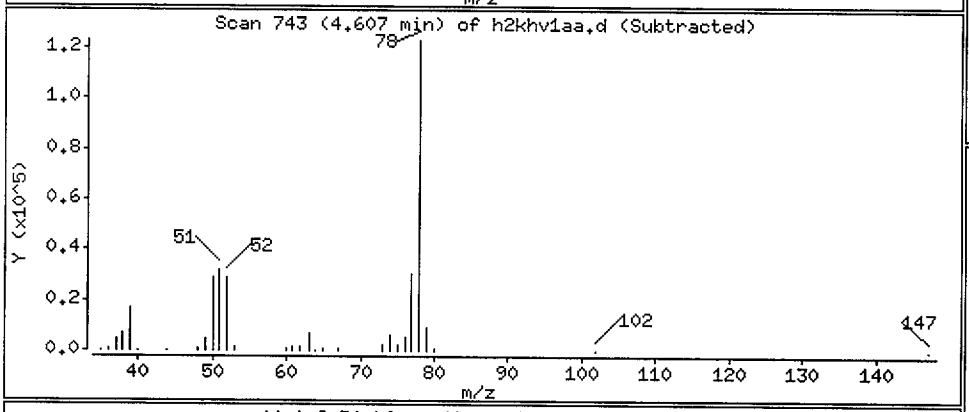
Column diameter: 0.18

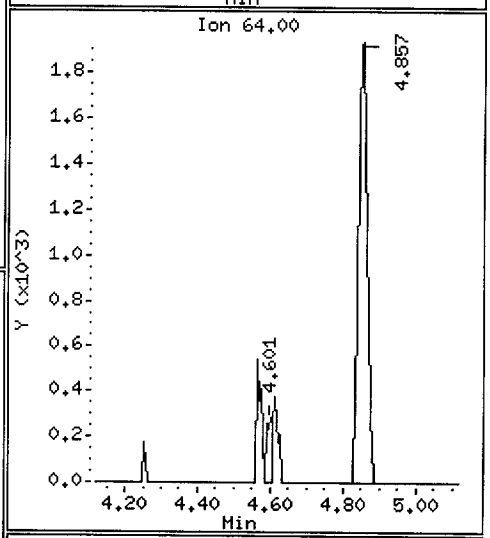
44 1,2-Dichloroethane

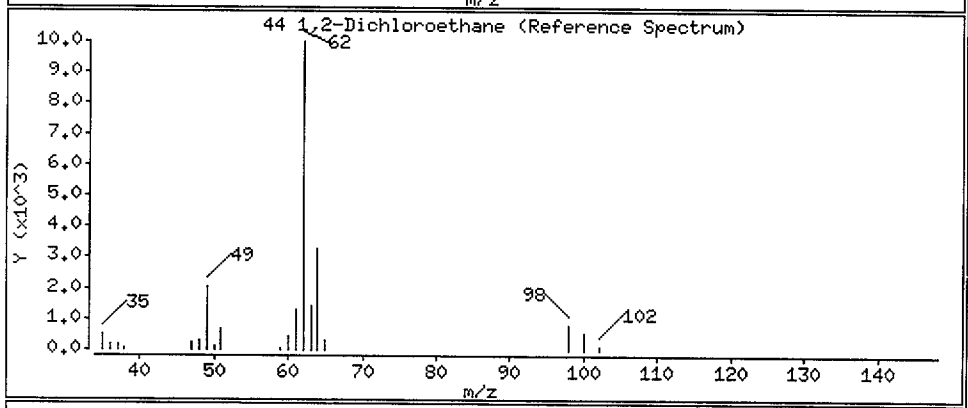
Concentration: 0.0035151 ug

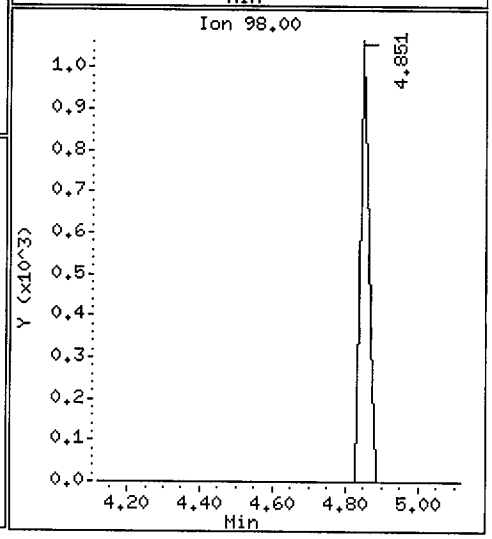


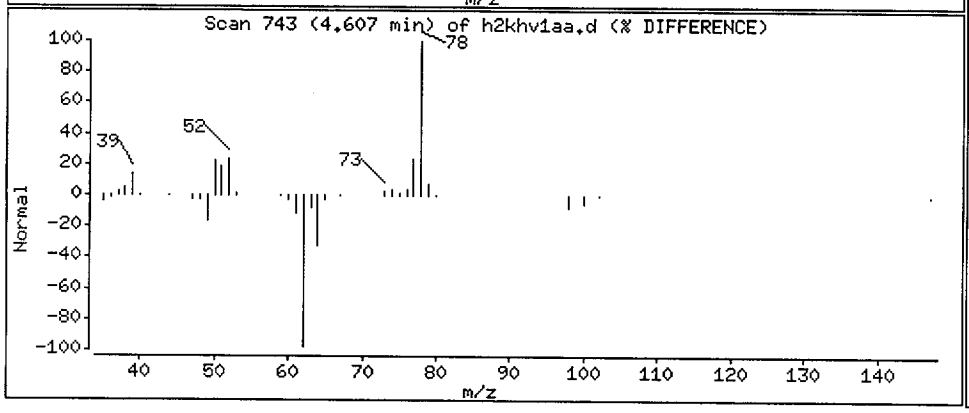












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

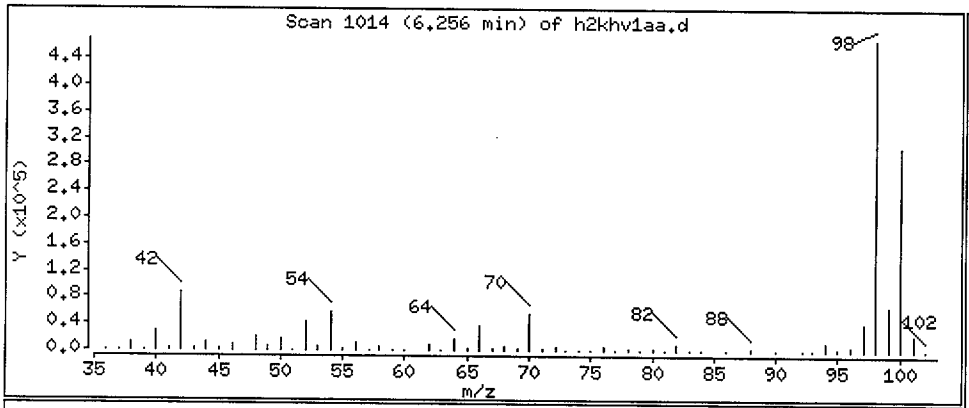
Operator: 22980

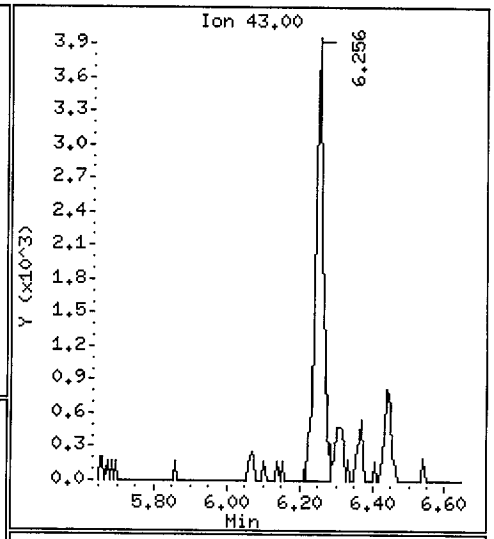
Column phase: J+W 624

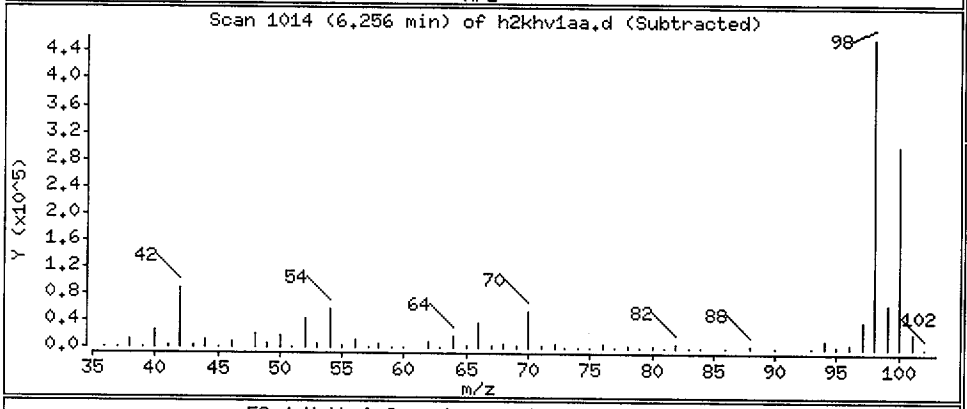
Column diameter: 0.18

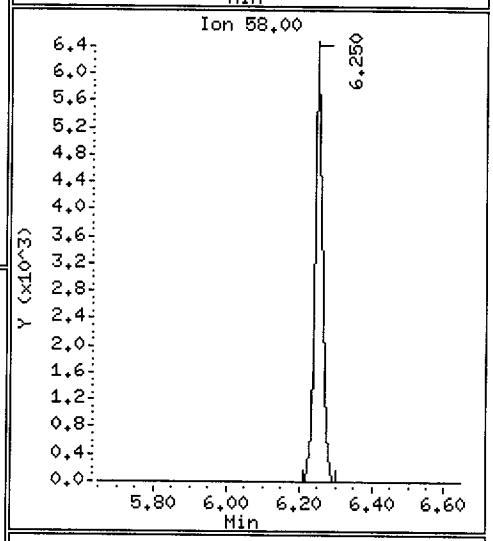
52 4-Methyl-2-pentanone

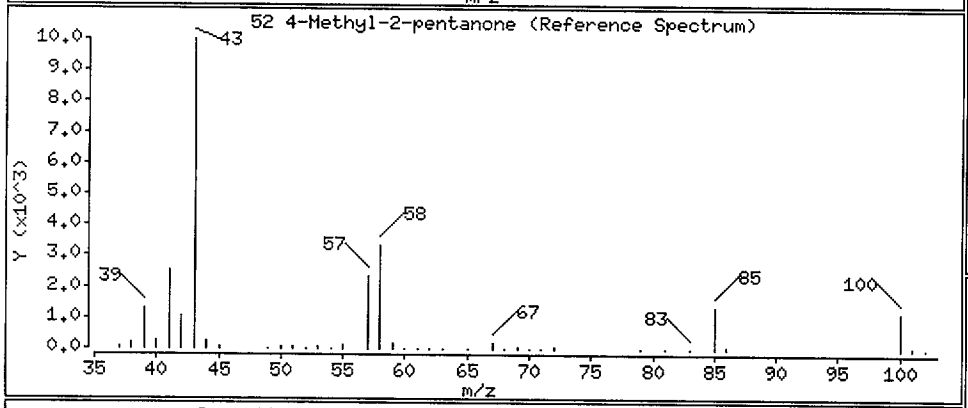
Concentration: 0.027753 ug

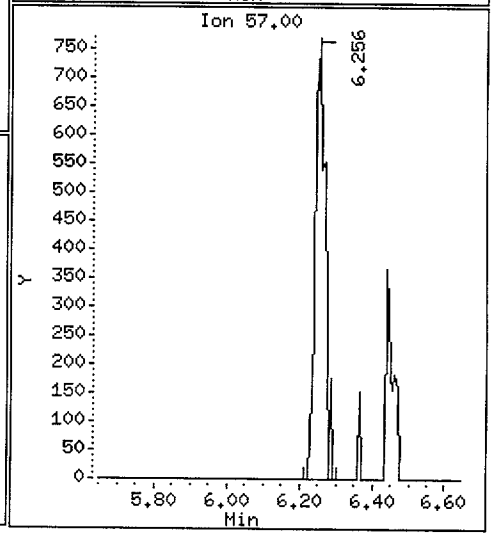


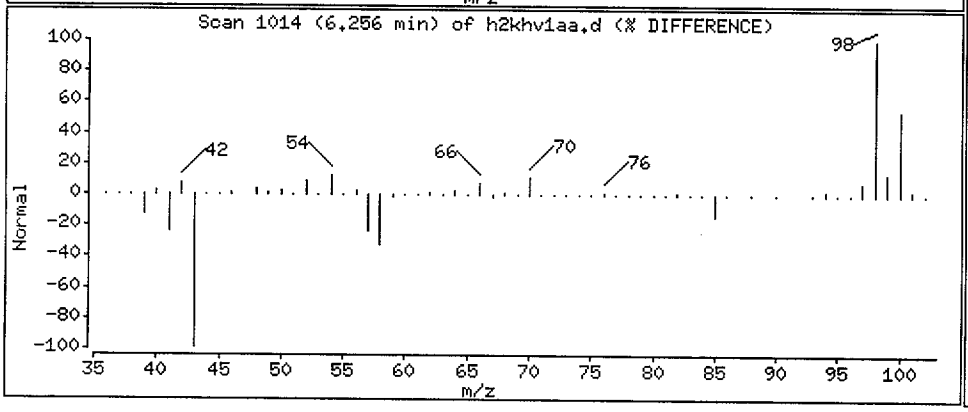












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

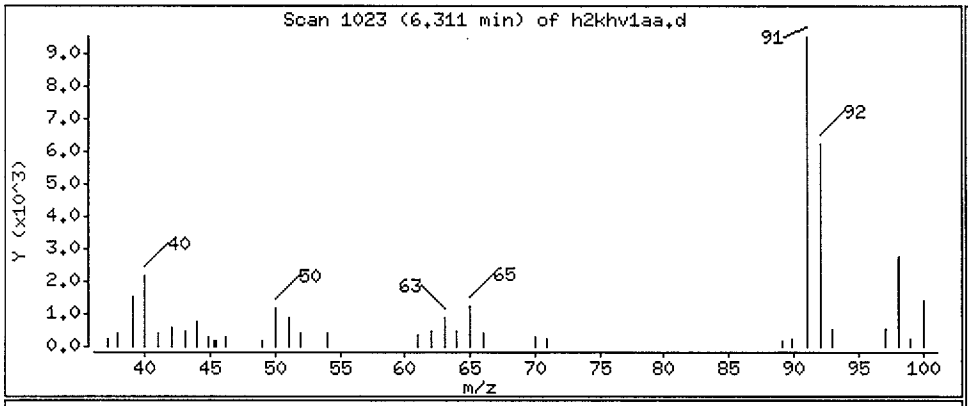
Operator: 22980

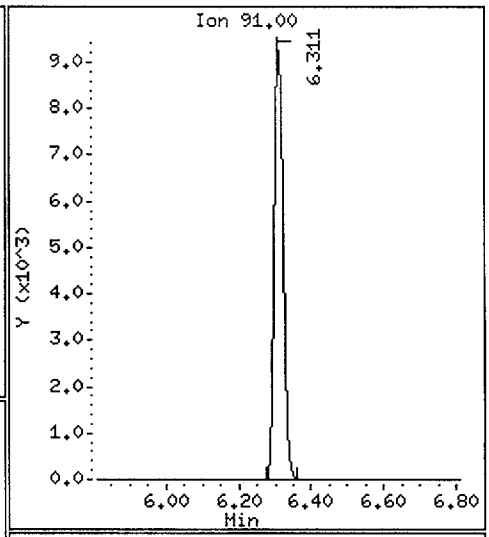
Column phase: J+W 624

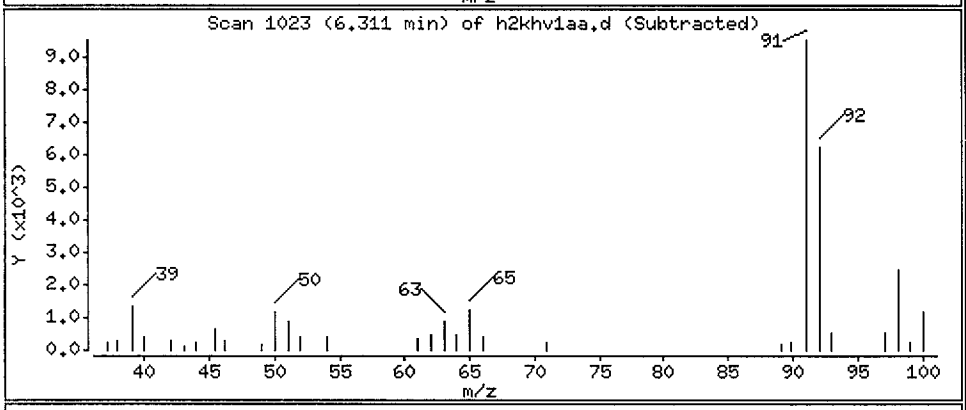
Column diameter: 0.18

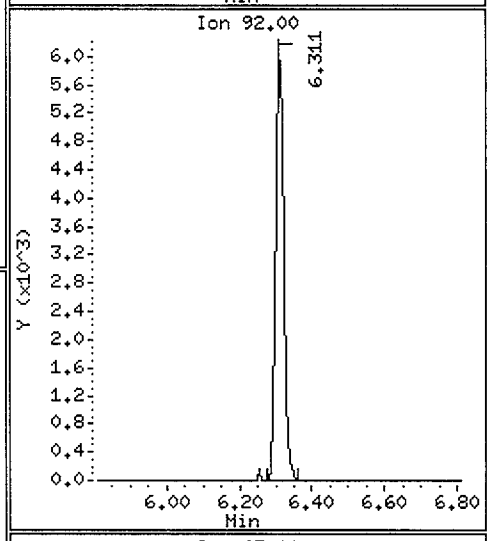
53 Toluene (ccc)

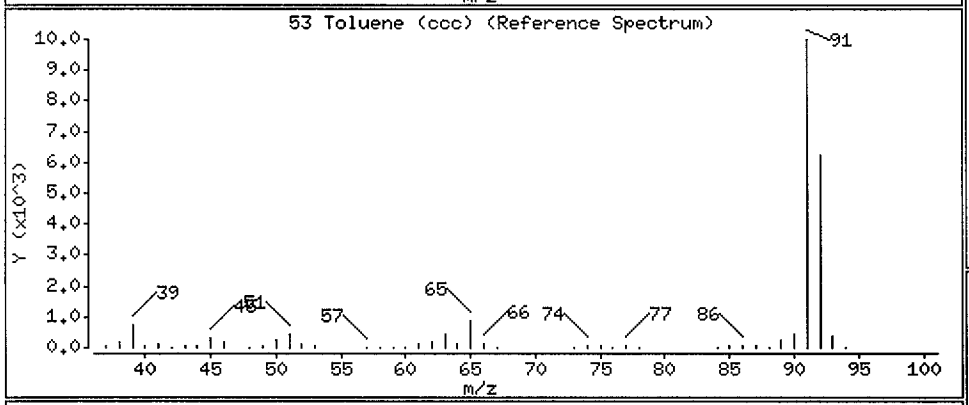
Concentration: 0.0032785 ug

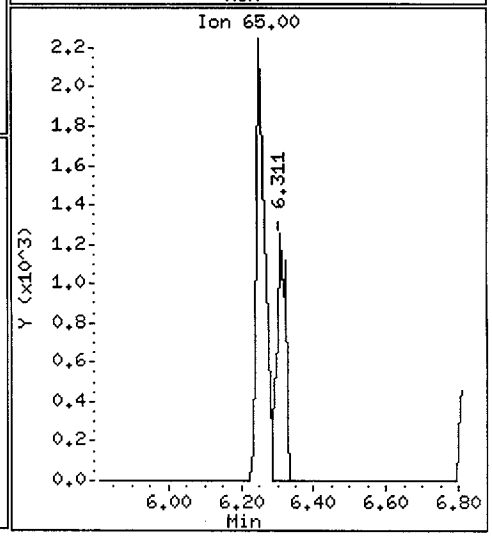


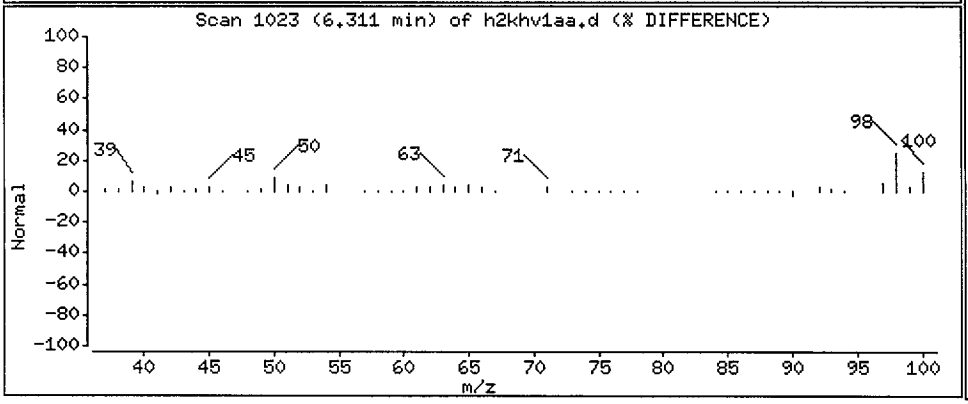












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

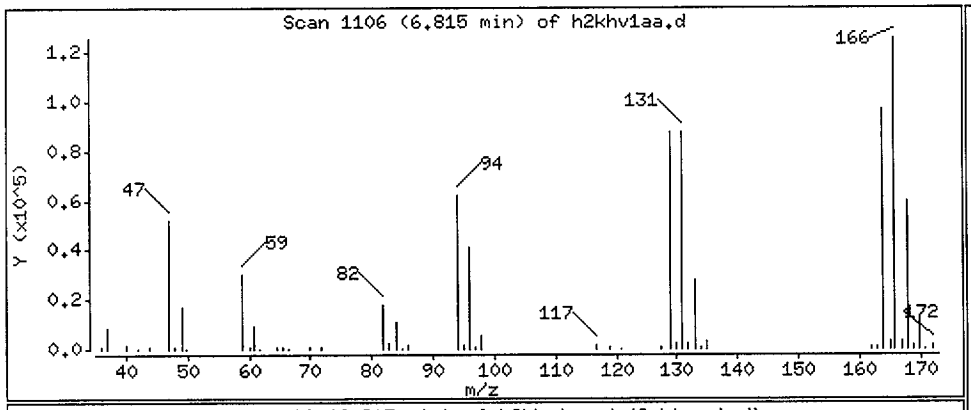
Operator: 22980

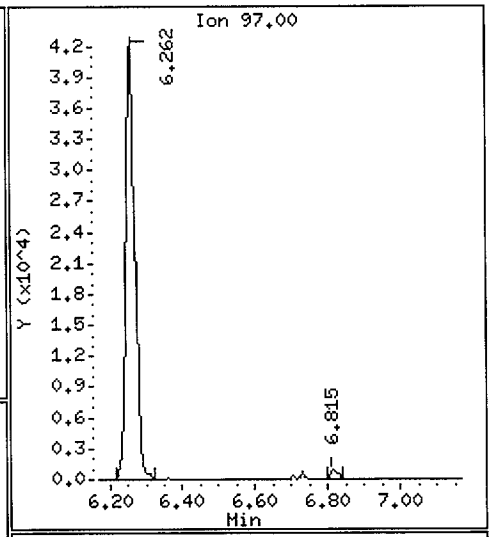
Column phase: J+W 624

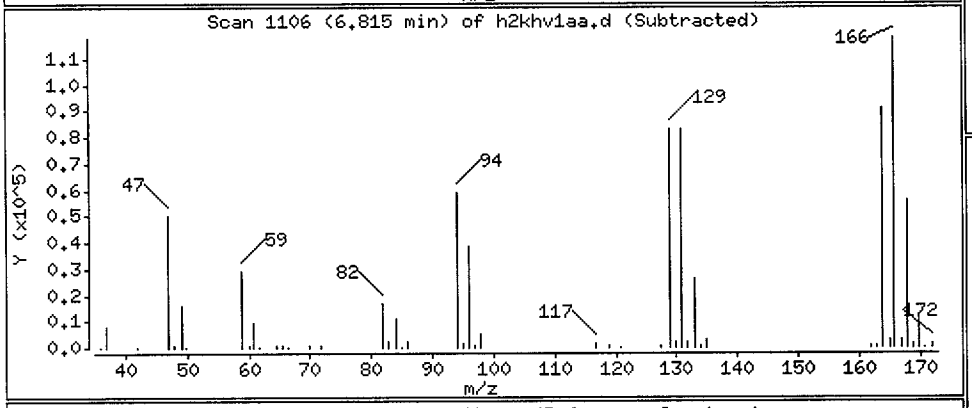
Column diameter: 0.18

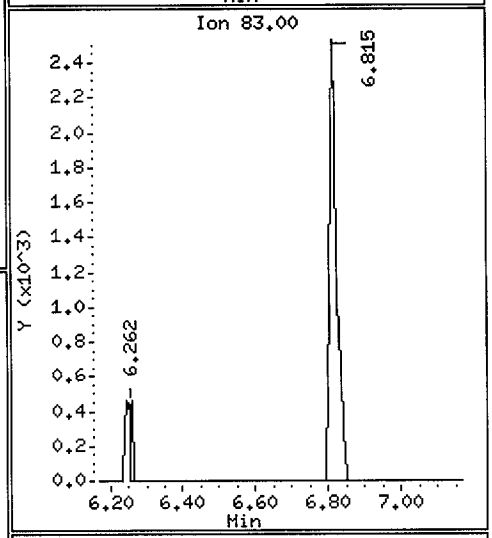
56 1,1,2-Trichloroethane

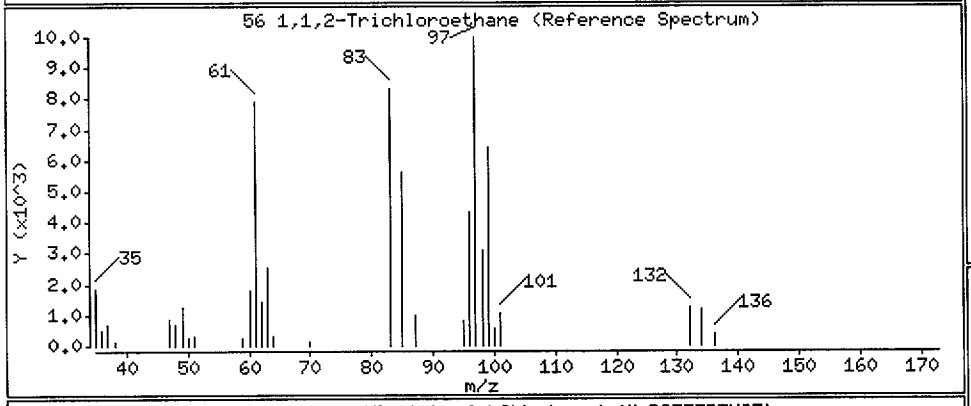
Concentration: 0.0033472 ug

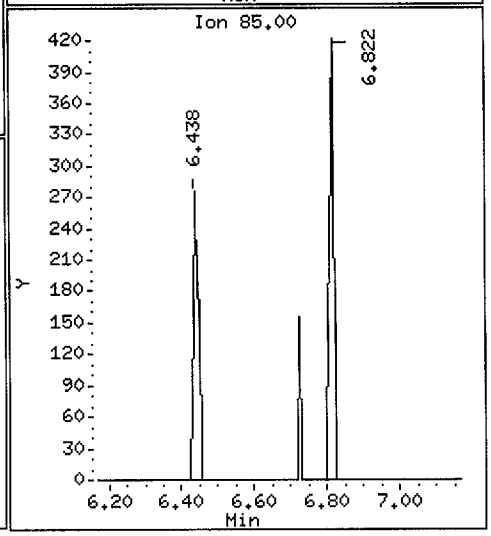


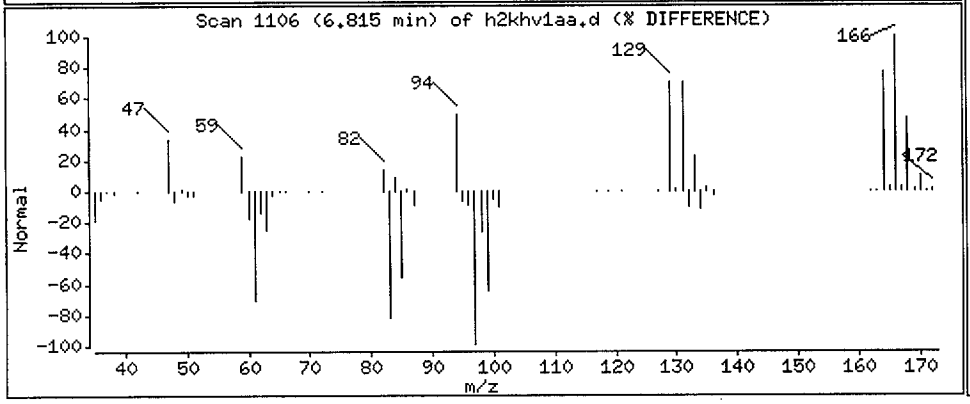












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

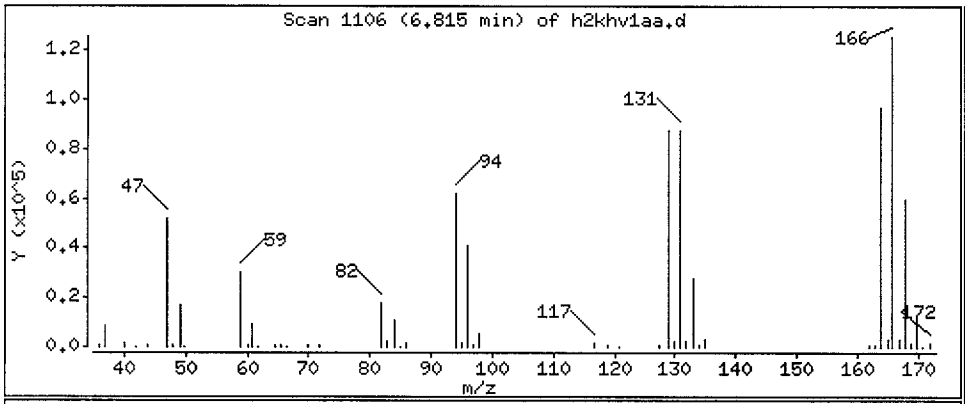
Operator: 22980

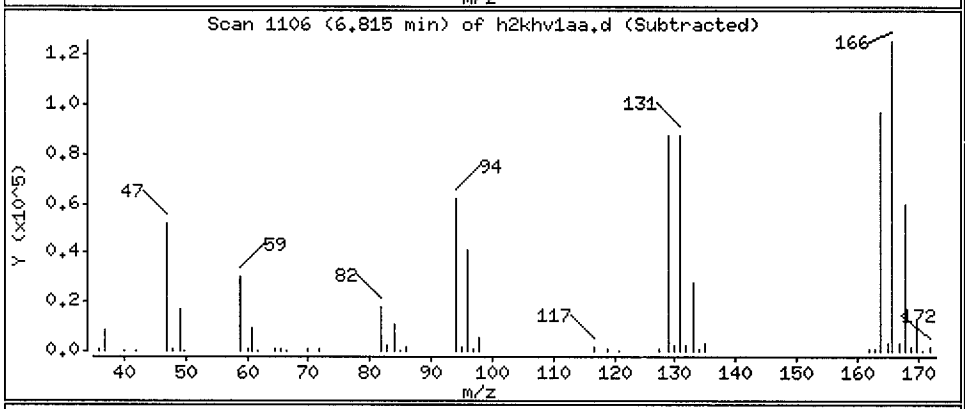
Column phase: J+W 624

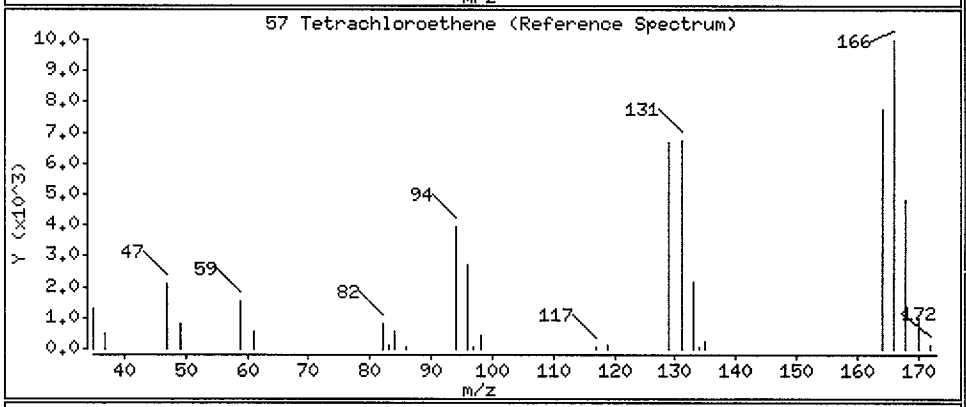
Column diameter: 0.18

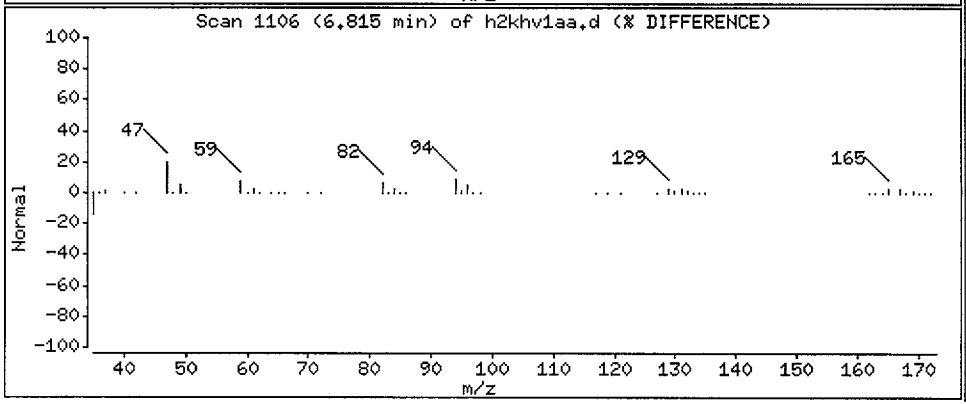
57 Tetrachloroethene

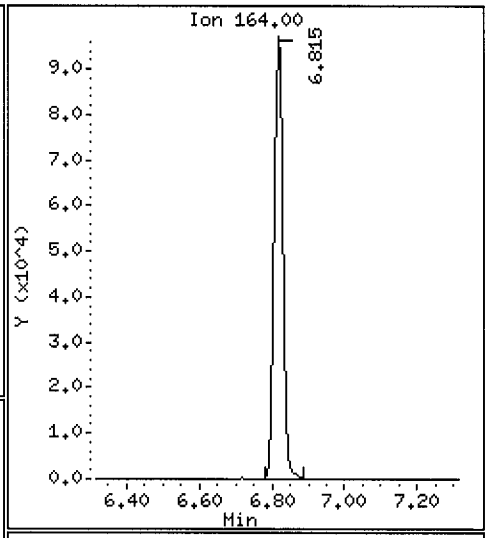
Concentration: 0.15829 ug

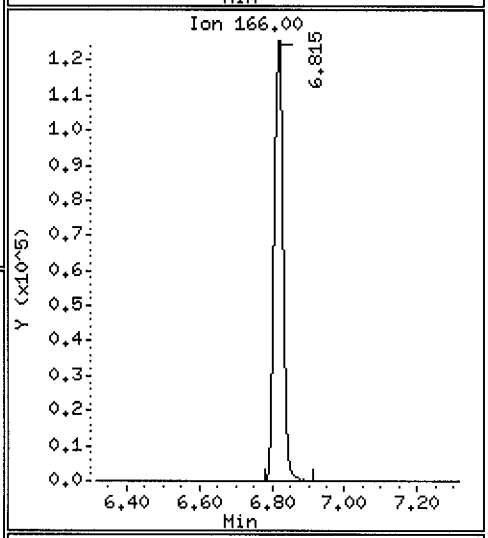


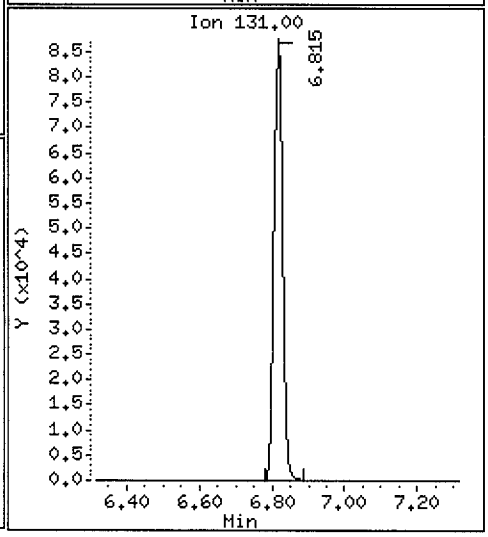












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

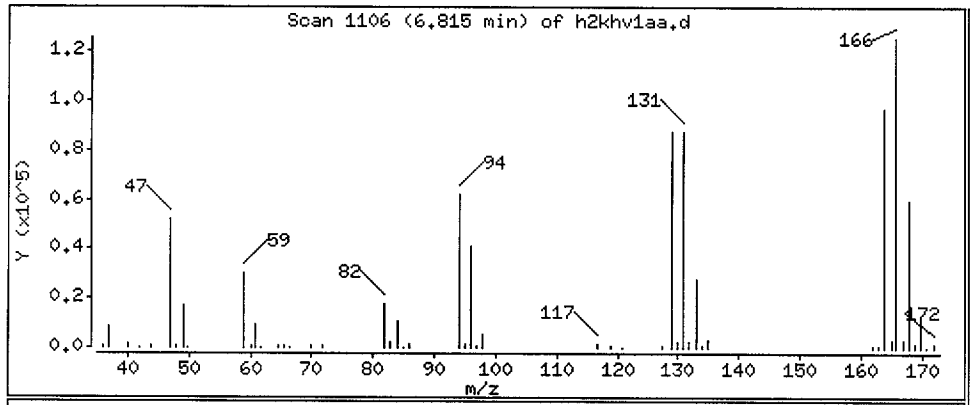
Operator: 22980

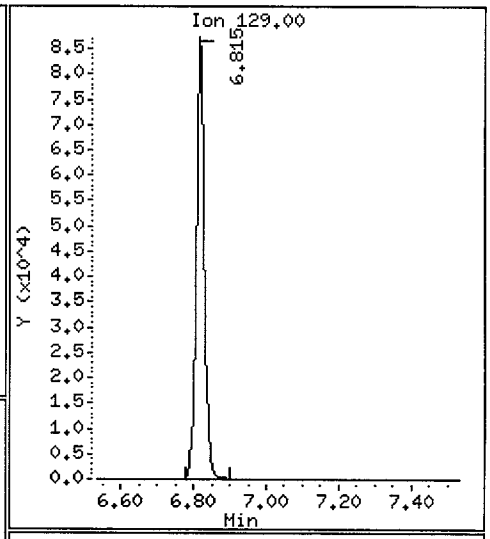
Column phase: J+W 624

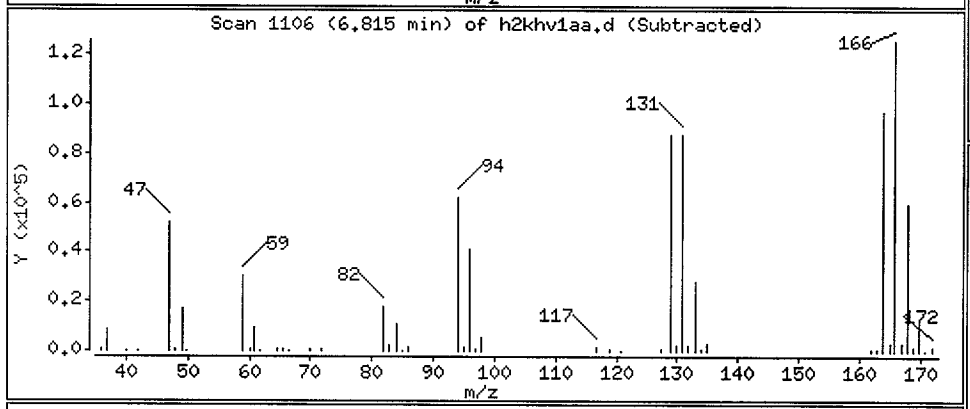
Column diameter: 0.18

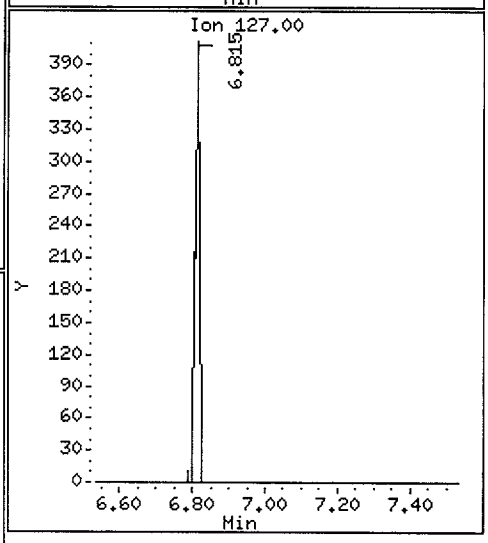
60 Chlorodibromomethane

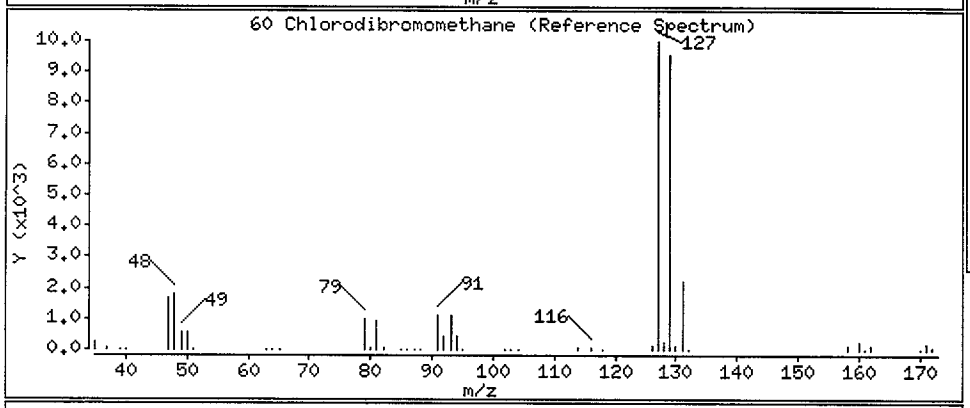
Concentration: 0.31091 ug

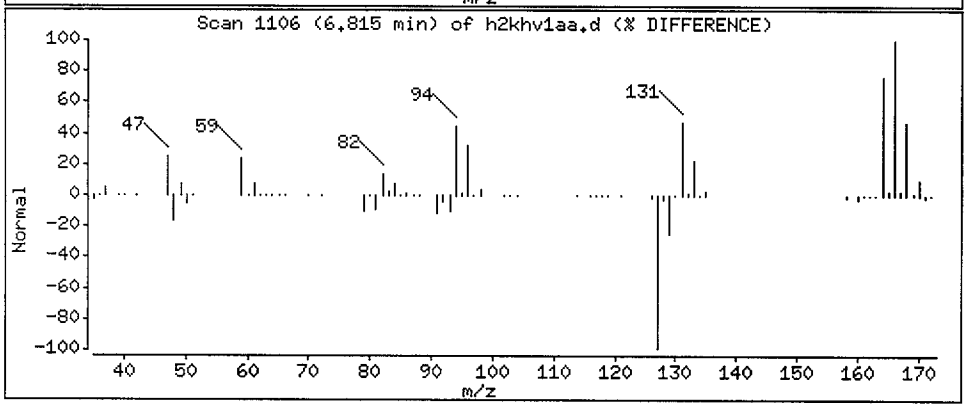












Data File: /chem/gcms/mx.i/X040706.b/h2khv1aa.d

Date : 07-APR-2006 19:24

Client ID: AUDIT VOST #3

Instrument: mx.i

Sample Info: H2KHV1AA,1,0,,,

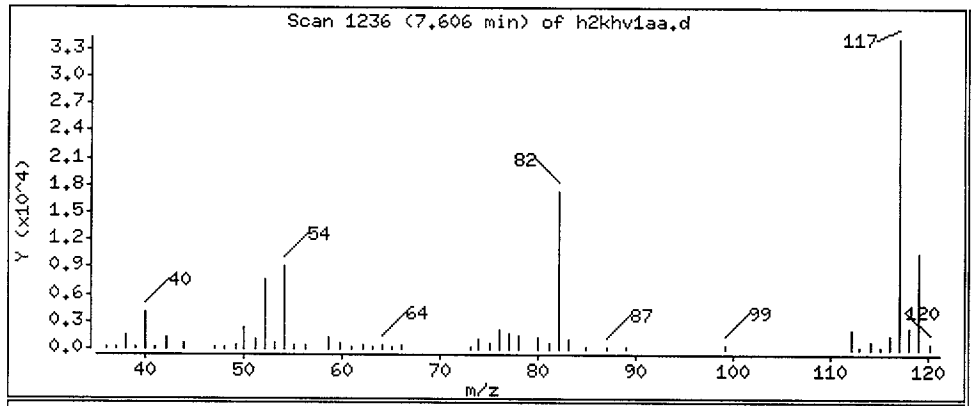
Operator: 22980

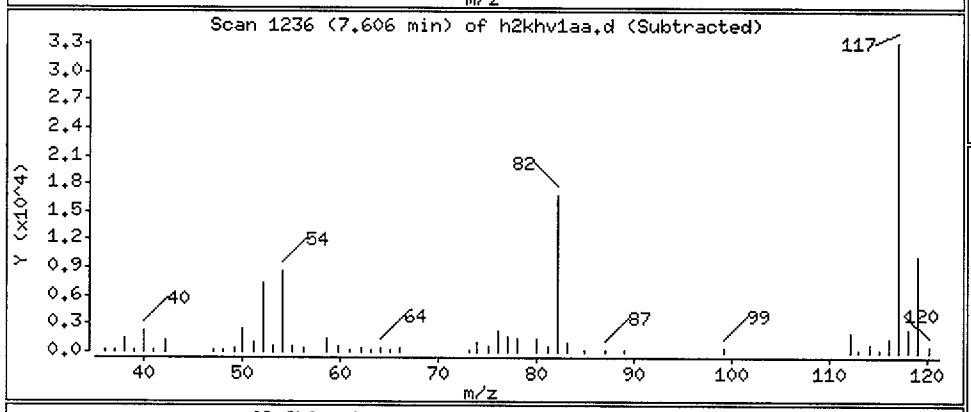
Column phase: J+W 624

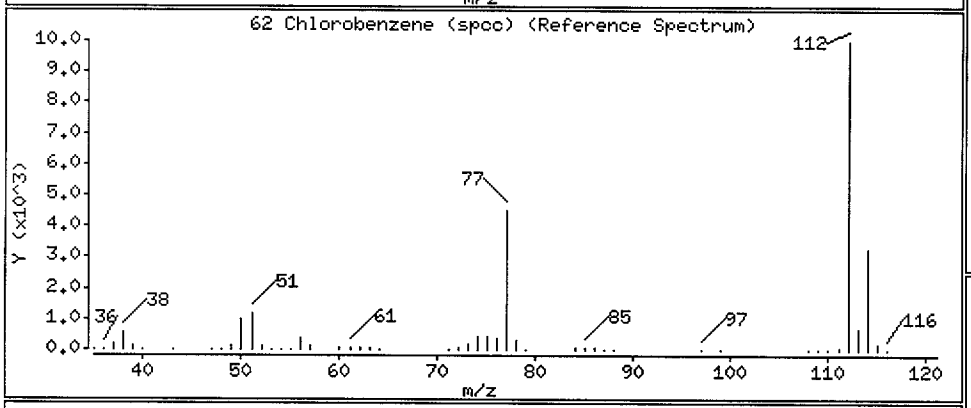
Column diameter: 0.18

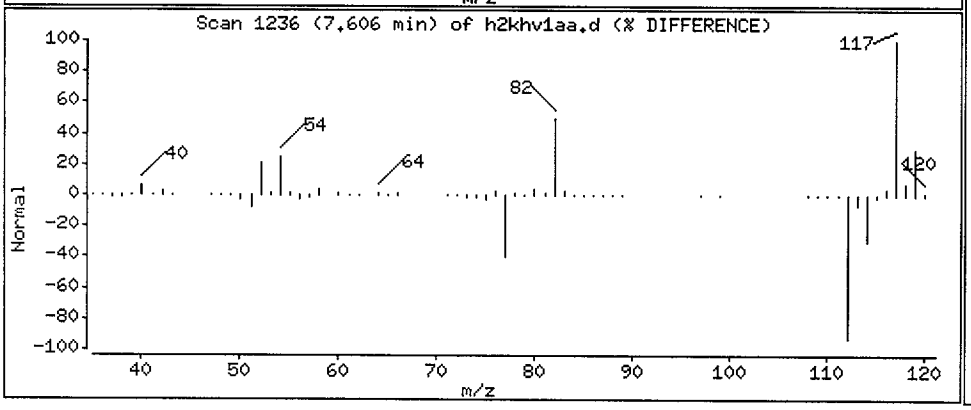
62 Chlorobenzene (spcc)

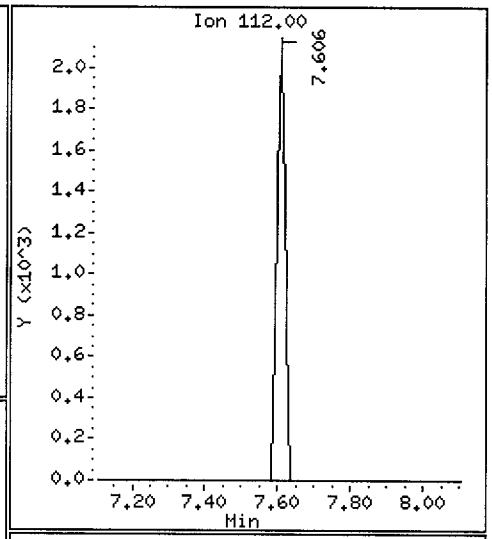
Concentration: 0.0013377 ug

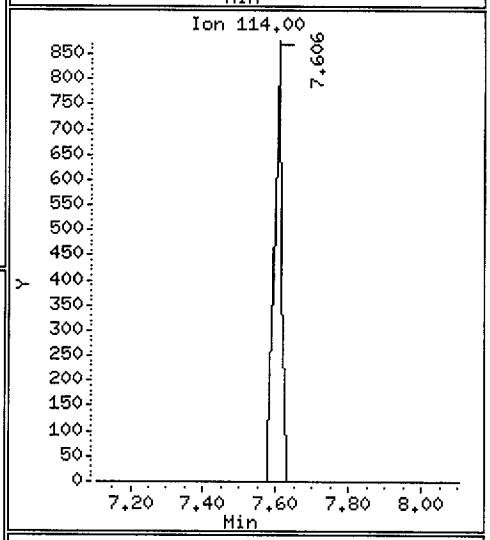


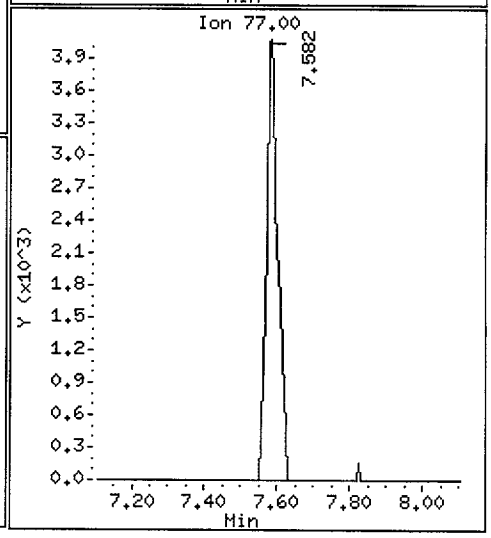












Data File: /var/chem/gcms/mx.i/X040706.b/h2khv1aa.d
Report Date: 18-Apr-2006 14:59

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2khv1aa.d
Lab Smp Id: H2KHV1AA Client Smp ID: AUDIT VOST #3
Inj Date : 07-APR-2006 19:24
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHV1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #...: H6D030169-042 **Work Order #...:** H2KHW1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.26**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.058**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.068 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.046**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0016 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.072**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #...: H6D030169-042 **Work Order #...:** H2KHW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(50 - 134)
1,2-Dichloroethane-d4	82	(50 - 134)
Toluene-d8	87	(57 - 127)
Bromofluorobenzene	76	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #: H6D030169-042 **Work Order #:** H2KHW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d
Report Date: 07-Apr-2006 19:15

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2khw1aa.d
Lab Smp Id: H2KHW1AA Client Smp ID: AUDIT VOST #4
Inj Date : 07-APR-2006 18:59
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHW1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	1032703	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	199092	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	210278	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	140996	8.03030	0.20076
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	112809	8.24252	0.20606
$ 6 Toluene-d8	98	6.250	6.250	(0.824)	847527	8.69471	0.21737
$ 7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	188789	7.57219	0.18930
11 Chloromethane (spcc)	50	1.250	1.262	(0.258)	2401	0.04992	0.0012480
21 Acetone	43	2.375	2.381	(0.490)	15424	10.5454	0.26363
23 Carbon Disulfide	76	2.503	2.497	(0.516)	48913	0.62148	0.015537
26 Methylene Chloride	84	2.746	2.746	(0.566)	47646	2.98418	0.074604
33 *Vinyl Acetate	86	3.257	3.421	(0.671)	1517	1.29197	~~0.032299~~
36 2-Butanone	43	3.872	3.871	(0.798)	6190	2.71316	0.067829
38 *THF	42	4.109	4.109	(0.847)	1626	1.16307	0.029077
39 Chloroform (ccc)	83	4.139	4.139	(0.853)	113078	2.88094	0.072023
41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	68603	1.85058	0.046264
42 1,1-Dichloropropene	75	4.614	4.437	(0.951)	4029	0.09856	~~0.0024641~~
43 Benzene	78	4.608	4.607	(0.950)	243383	2.32706	0.058177
44 1,2-Dichloroethane	62	4.614	4.620	(0.951)	2212	0.12573	~~0.0031433~~
52 4-Methyl-2-pentanone	43	6.250	6.147	(1.288)	6551	1.19896	~~0.029974~~

04/21/06

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d
Report Date: 07-Apr-2006 19:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
53 Toluene (ccc)	91	6.311	6.311	(0.832)	15174	0.13012	0.0032530
54 trans-1,3-Dichloropropene	75	6.719	6.506	(0.886)	1884	0.09218	~~0.0023045~~
56 1,1,2-Trichloroethane	97	6.810	6.670	(0.898)	1327	0.14412	~~0.0036030~~
57 Tetrachloroethene	164	6.816	6.816	(0.899)	160911	6.42166	0.16054
60 Chlorodibromomethane	129	6.816	7.035	(0.899)	145450	12.7435	~~0.31859~~
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	3762	0.06284	0.0015710

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d
Report Date: 07-Apr-2006 19:15

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2khw1aa.d
Lab Smp Id: H2KHW1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: AUDIT VOST #4
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1032703	-10.14
2 Chlorobenzene-d5	214194	107097	428388	199092	-7.05
3 1,4 Dichlorobenze	242601	121300	485202	210278	-13.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.00
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.00

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.

Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d
Report Date: 07-Apr-2006 19:15

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2KHW1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: AUDIT VOST #4
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

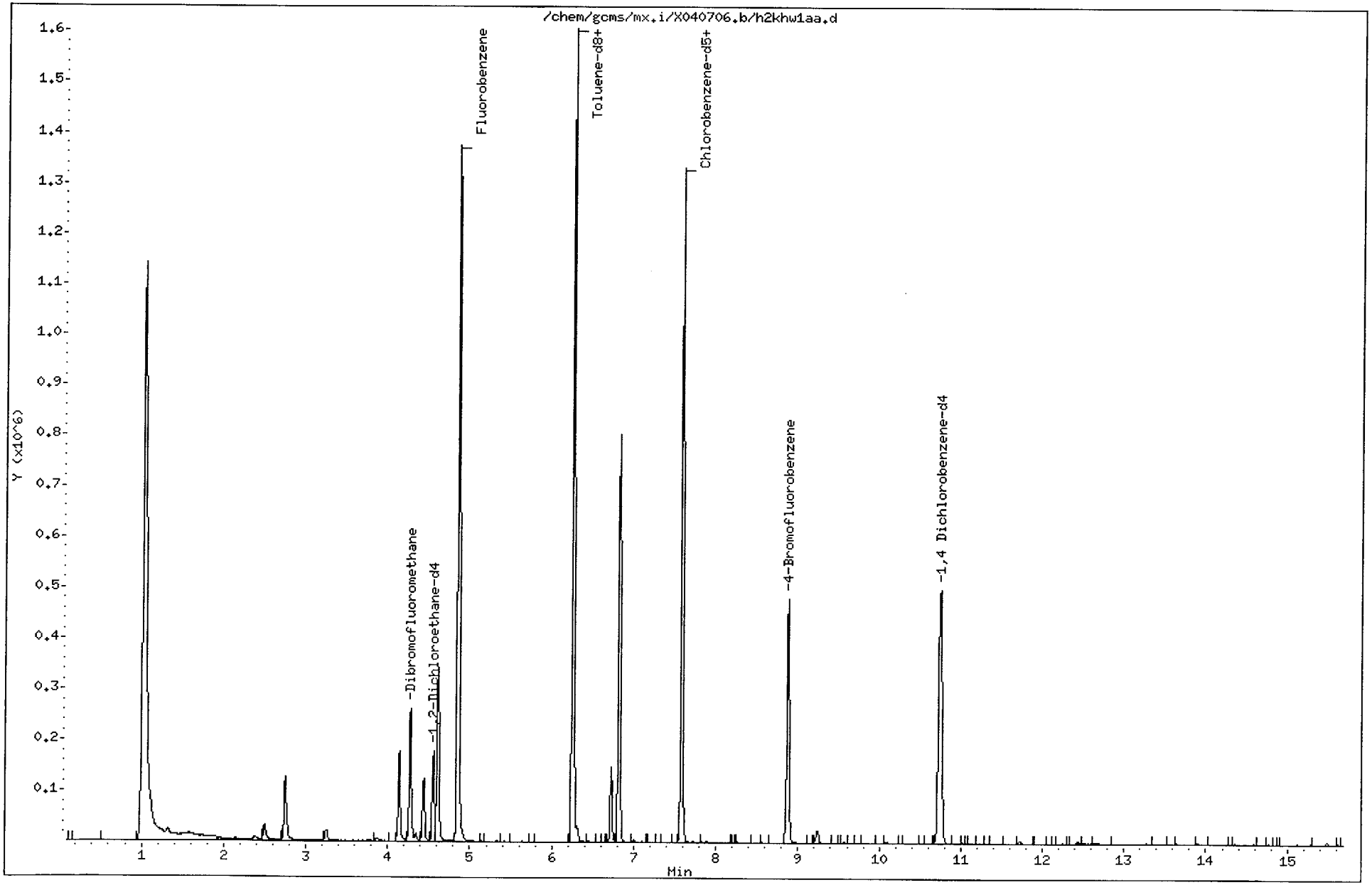
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.20076	80.30	50-150
$ 5 1,2-Dichloroethane	0.25000	0.20606	82.43	50-150
$ 6 Toluene-d8	0.25000	0.21737	86.95	50-150
$ 7 4-Bromofluorobenze	0.25000	0.18930	75.72	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d
Date : 07-APR-2006 18:59
Client ID: AUDIT VOST #4
Sample Info: H2KHW1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

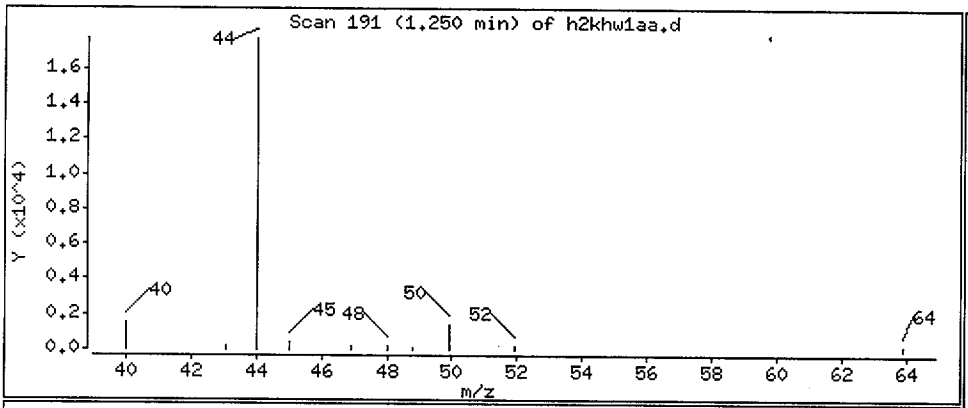
Operator: 22980

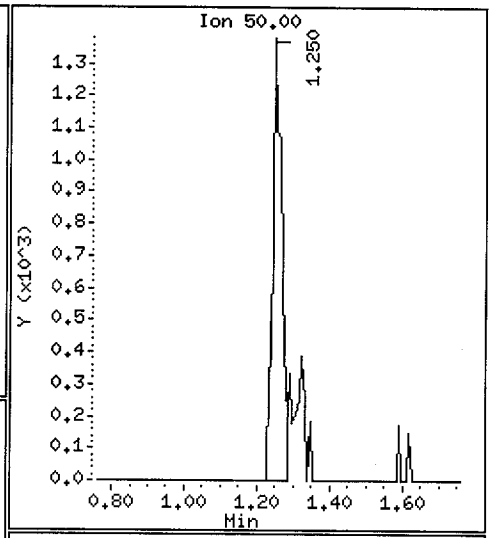
Column phase: J+W 624

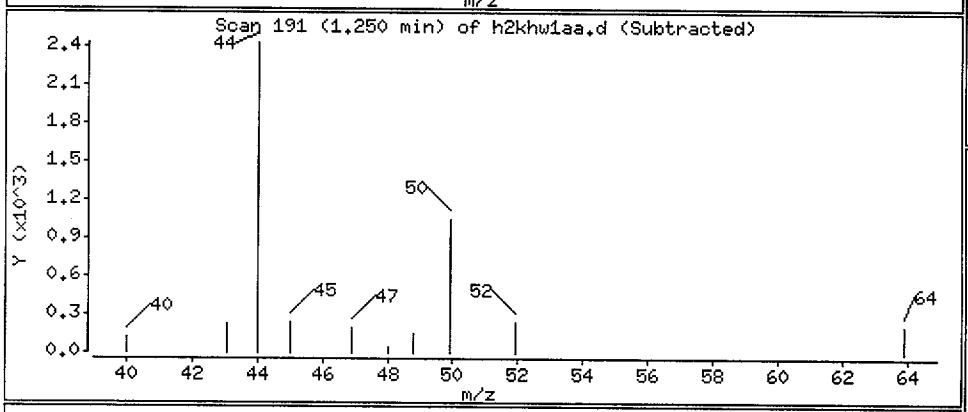
Column diameter: 0.18

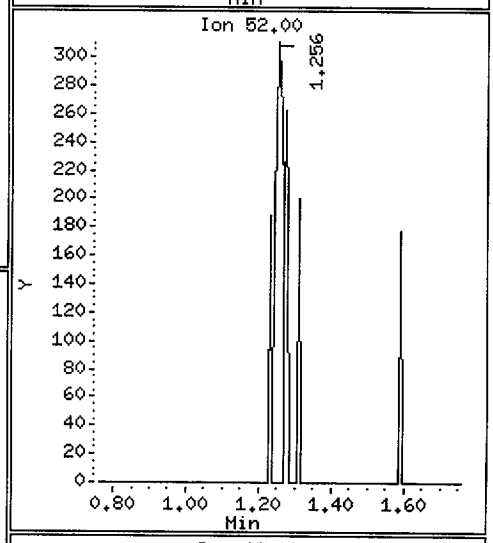
11 Chloromethane (spcc)

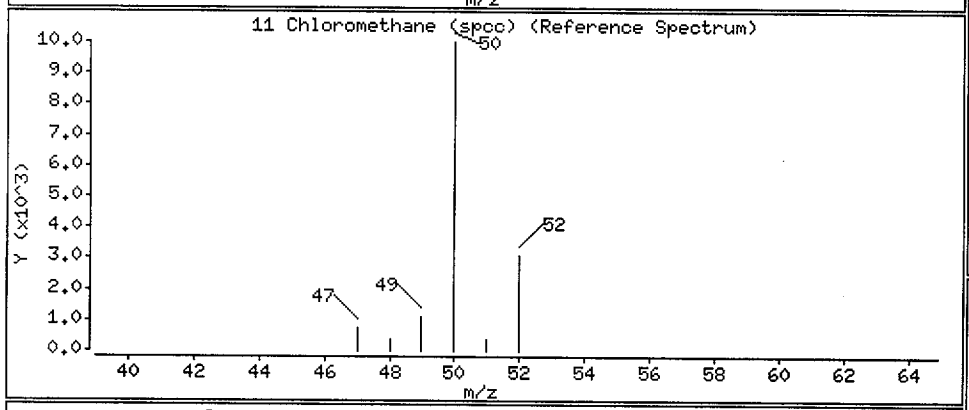
Concentration: 0.0012480 ug

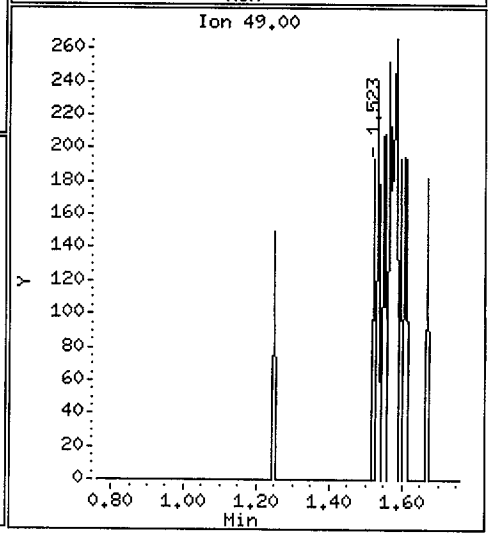


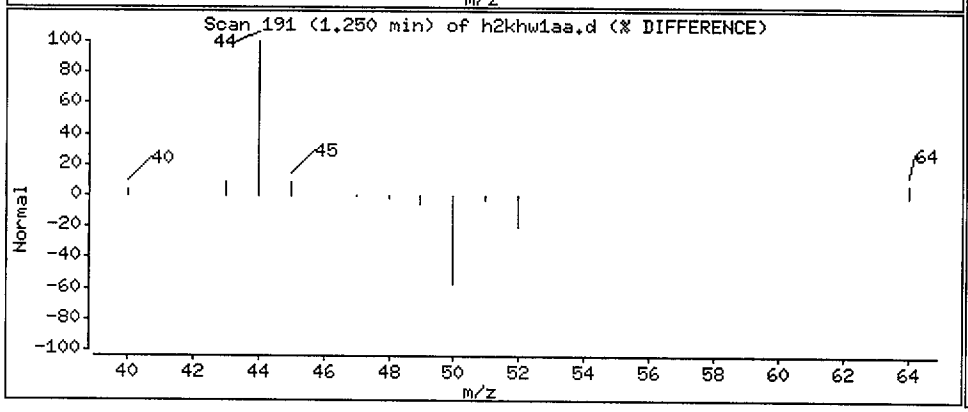












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

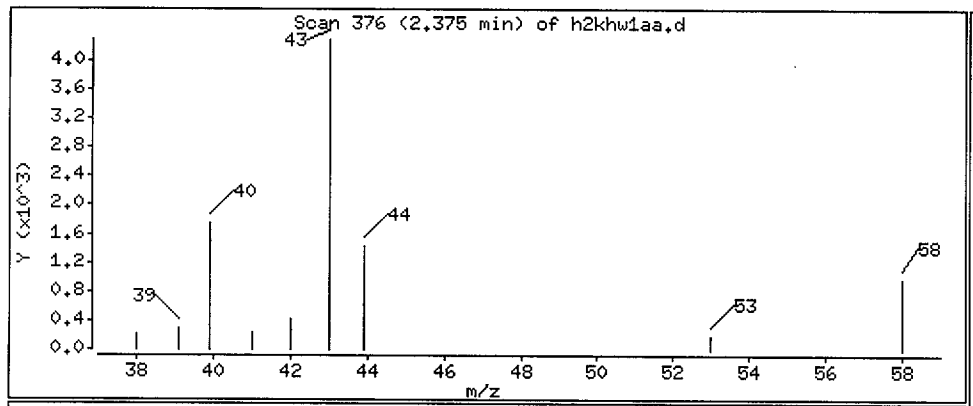
Operator: 22980

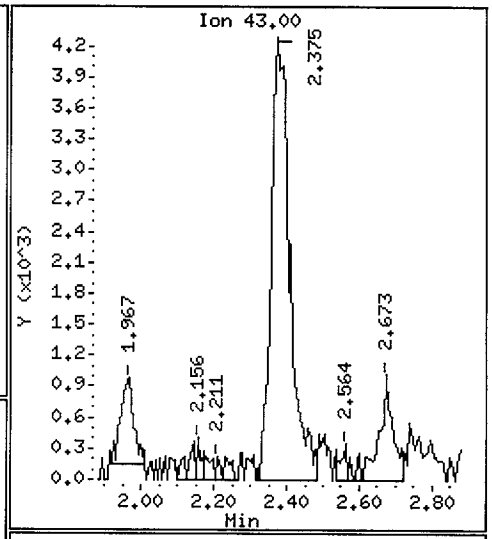
Column phase: J+W 624

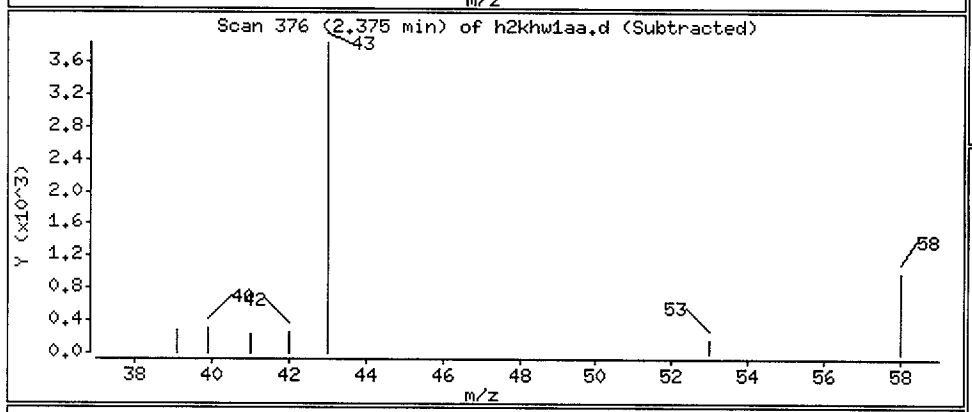
Column diameter: 0.18

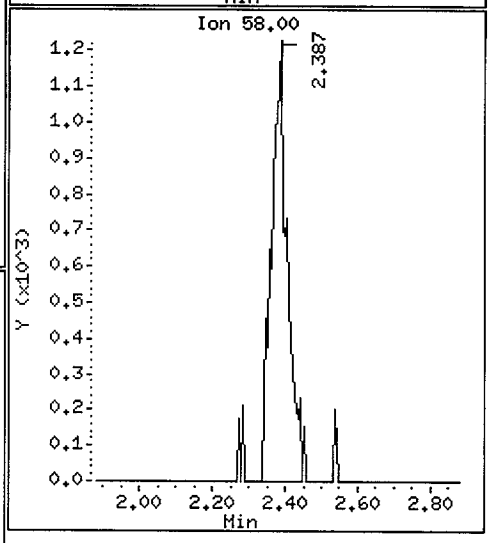
21 Acetone

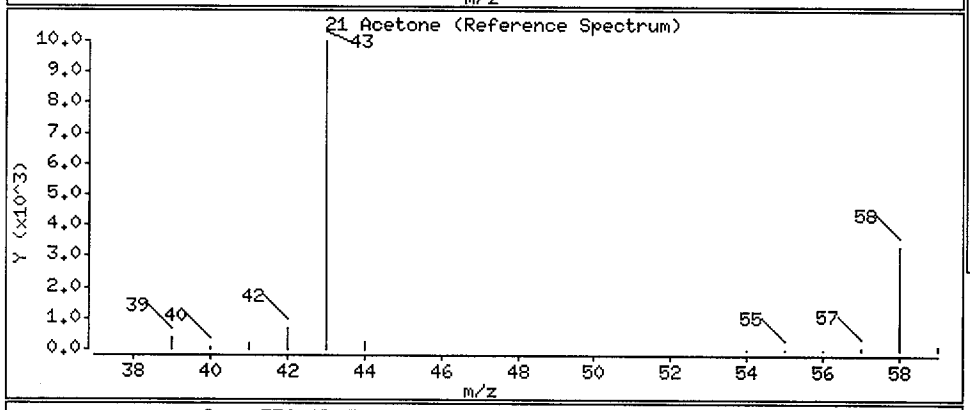
Concentration: 0.26363 ug

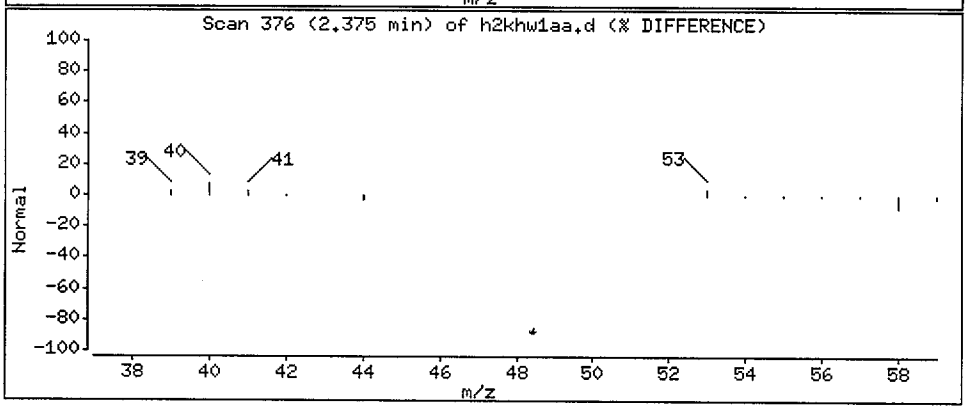












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

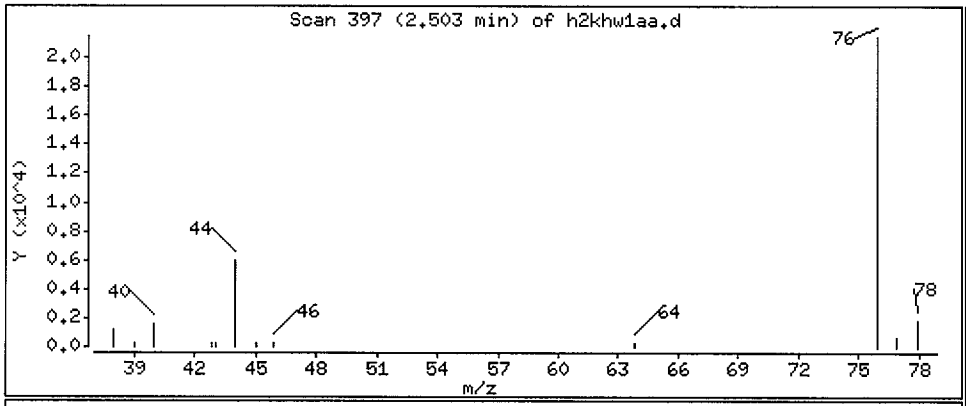
Operator: 22980

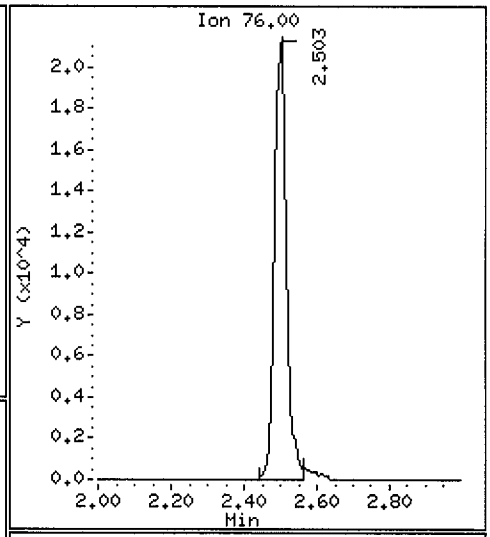
Column phase: J+W 624

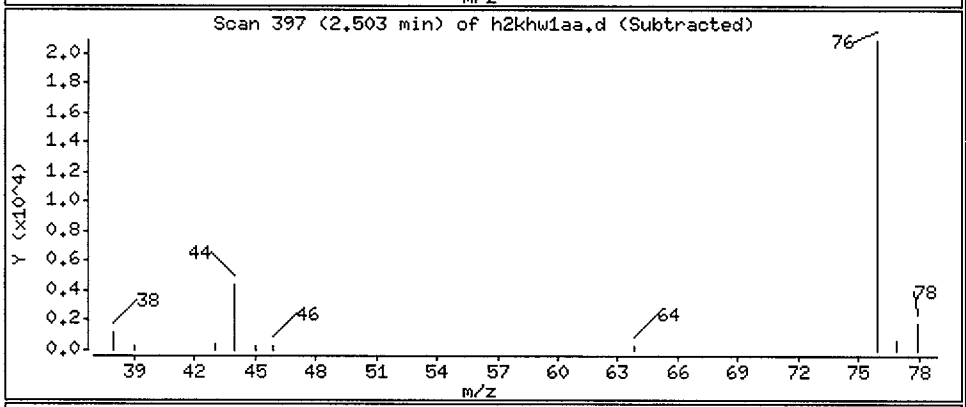
Column diameter: 0.18

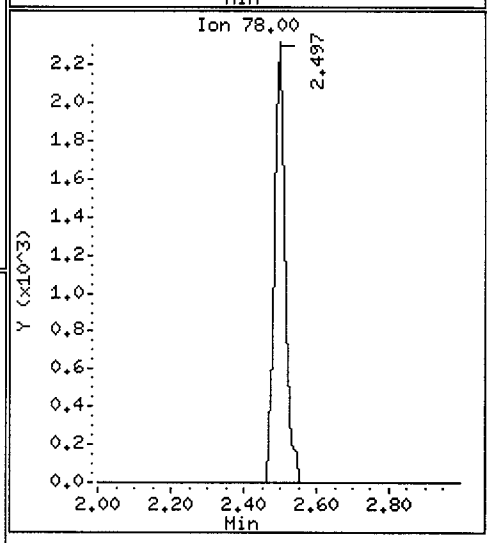
23 Carbon Disulfide

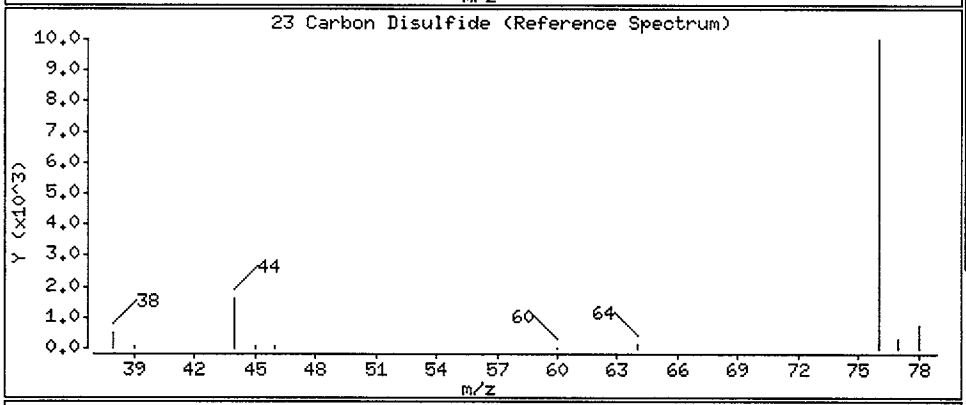
Concentration: 0.015537 ug

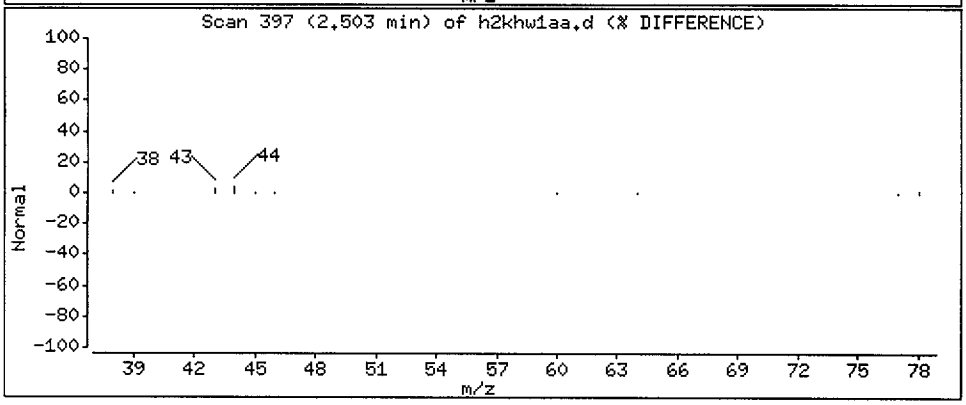












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

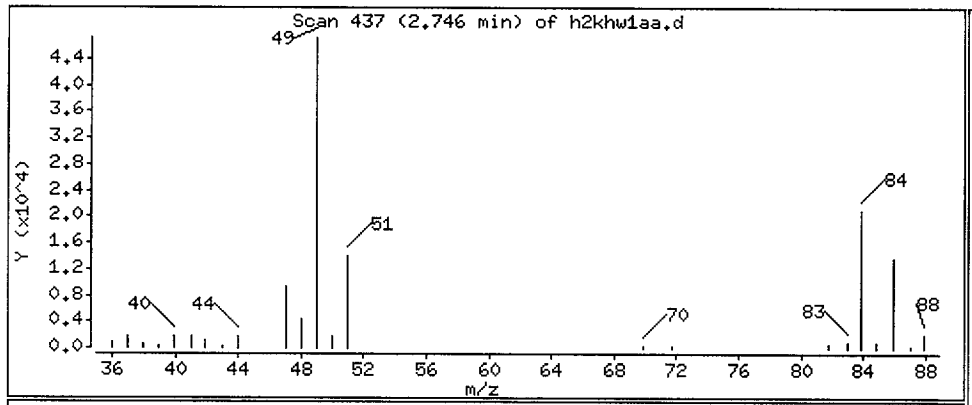
Operator: 22980

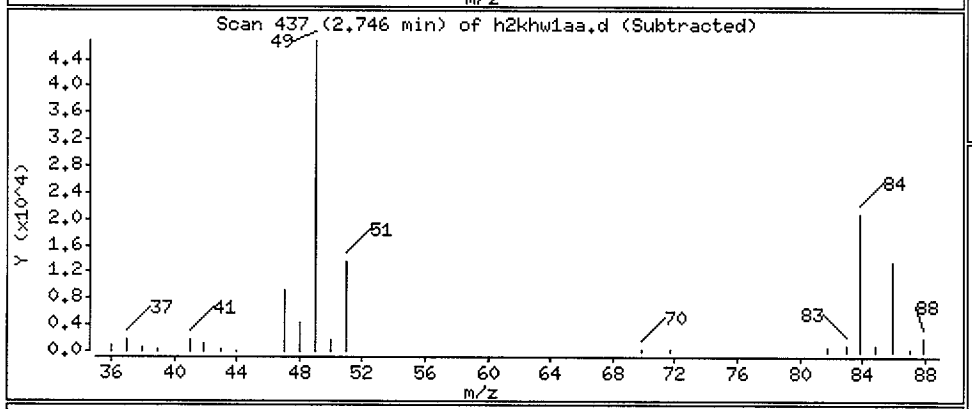
Column phase: J+W 624

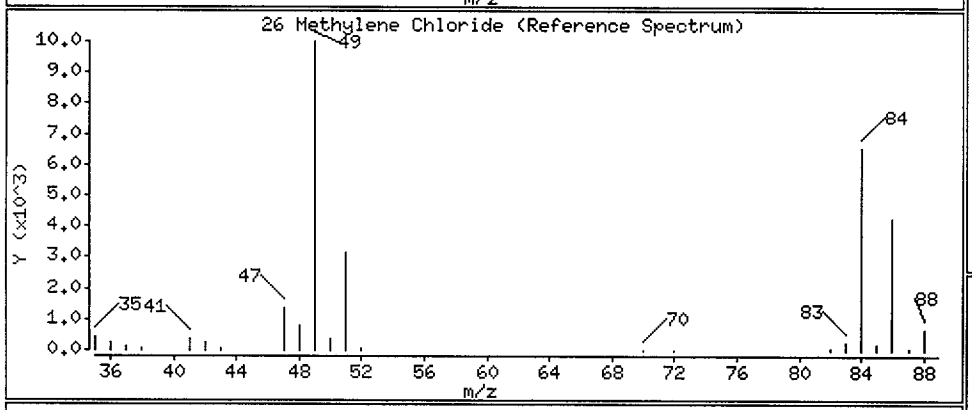
Column diameter: 0.18

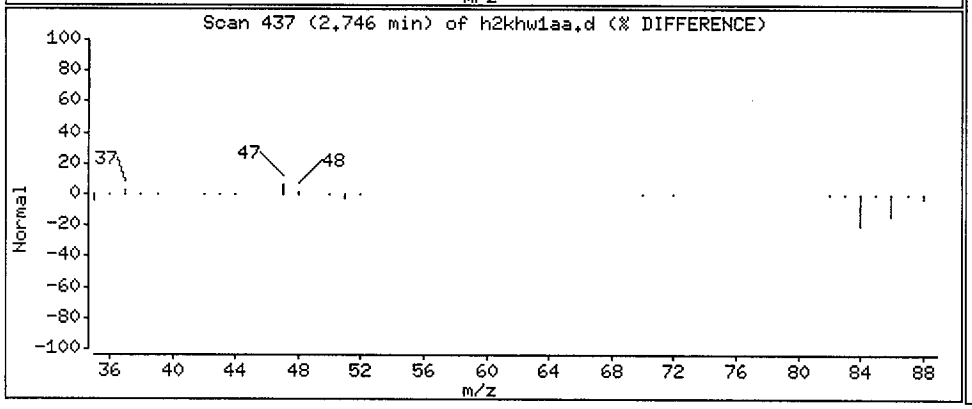
26 Methylene Chloride

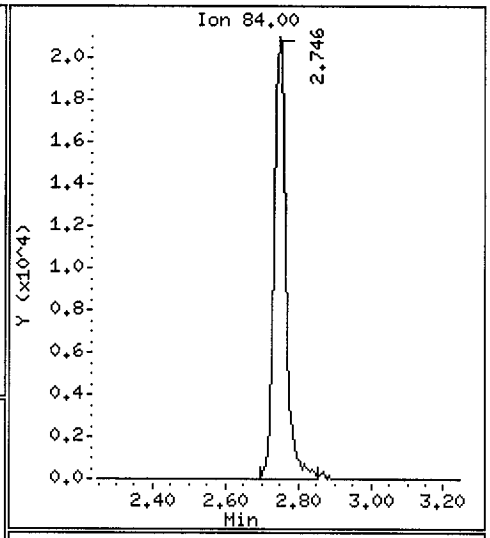
Concentration: 0.074604 ug

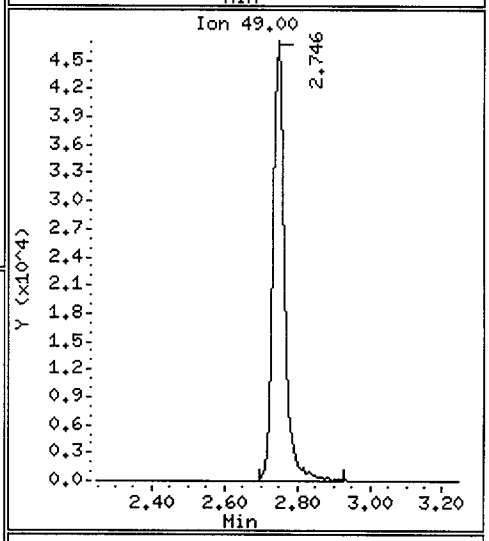


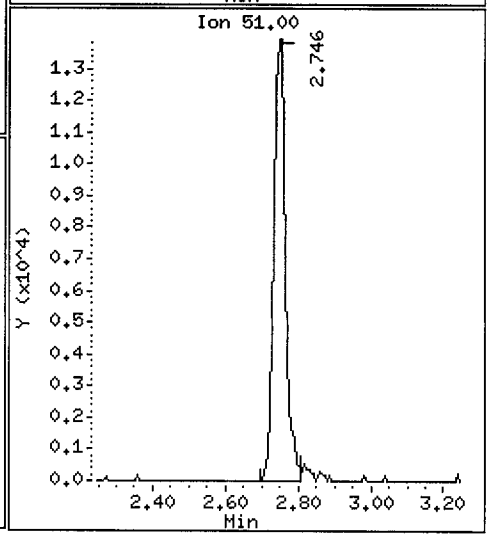












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

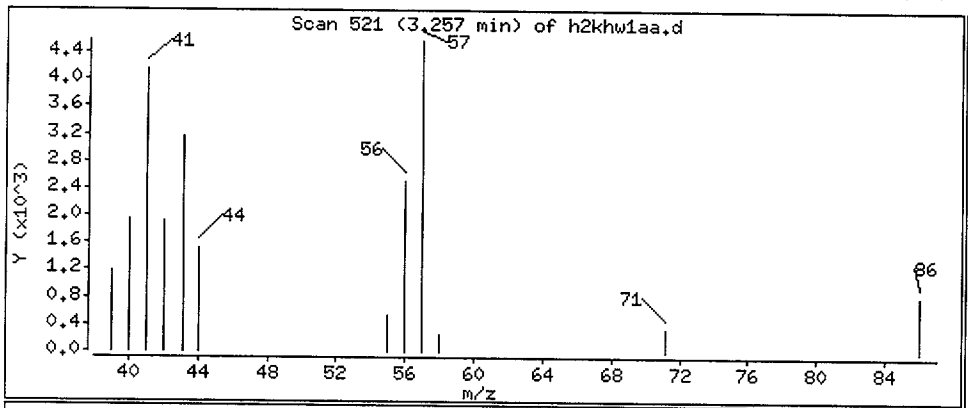
Operator: 22980

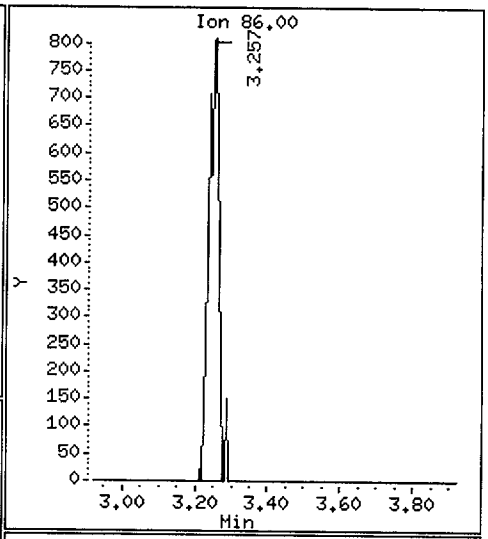
Column phase: J+W 624

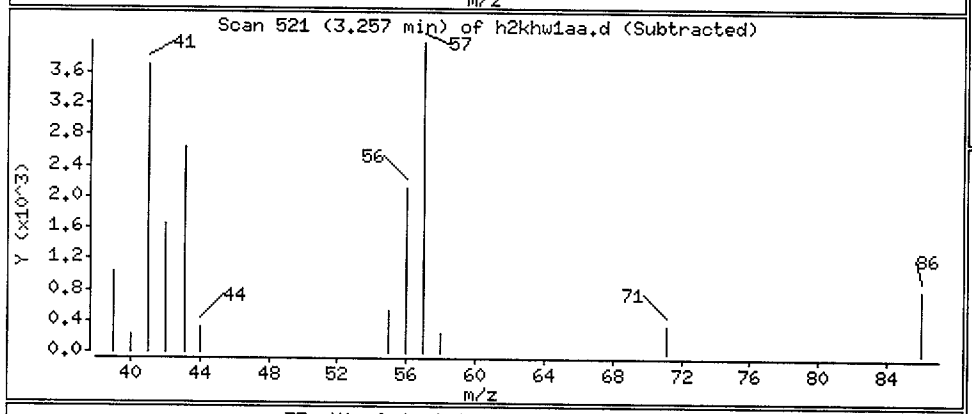
Column diameter: 0.18

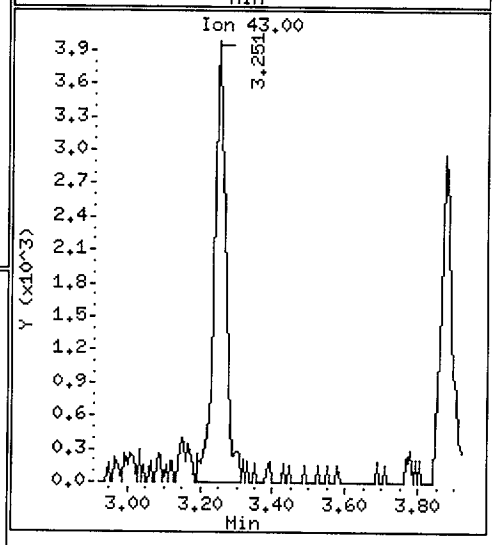
33 *Vinyl Acetate

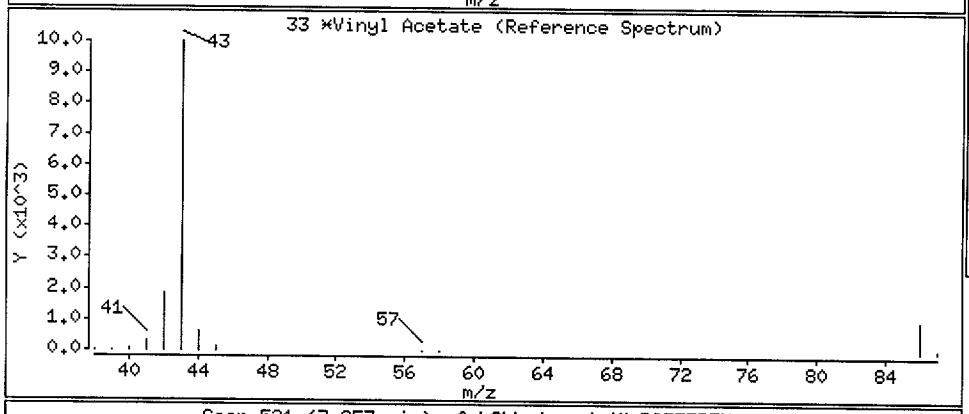
Concentration: 0.032299 ug

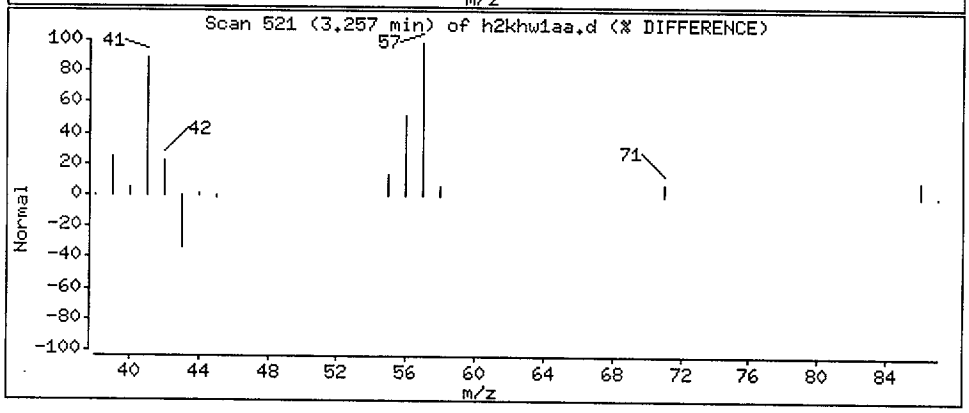












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

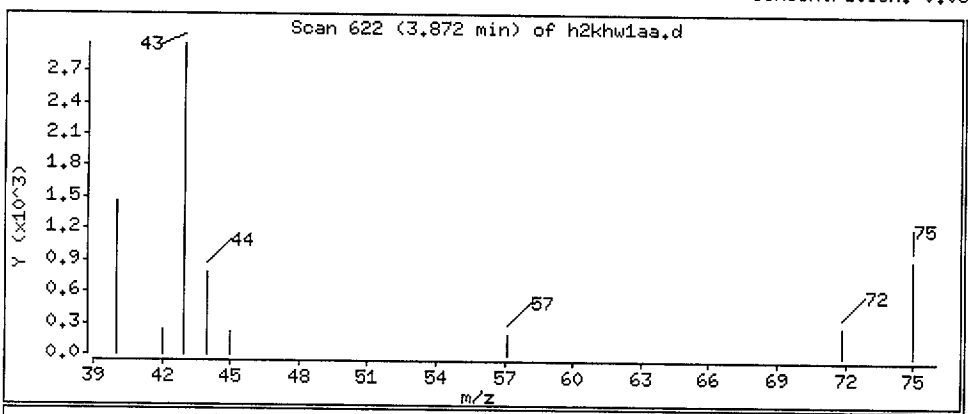
Operator: 22980

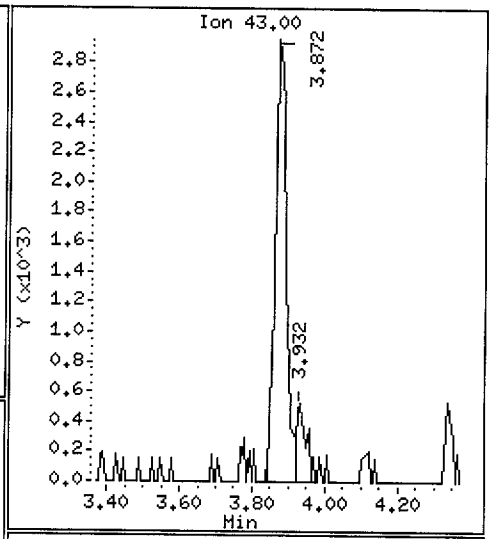
Column phase: J+W 624

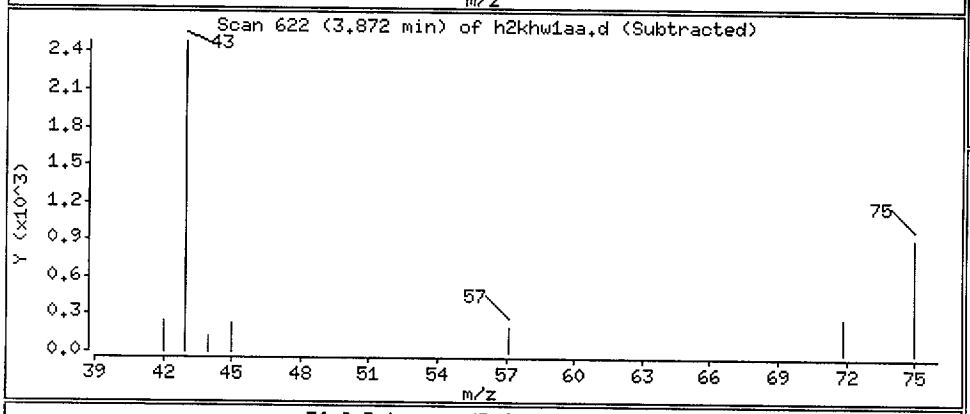
Column diameter: 0.18

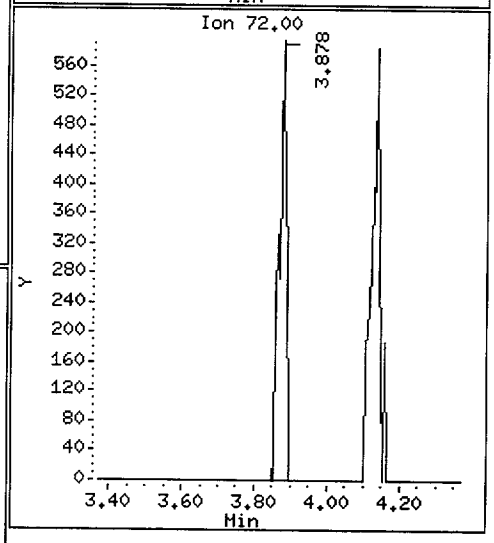
36 2-Butanone

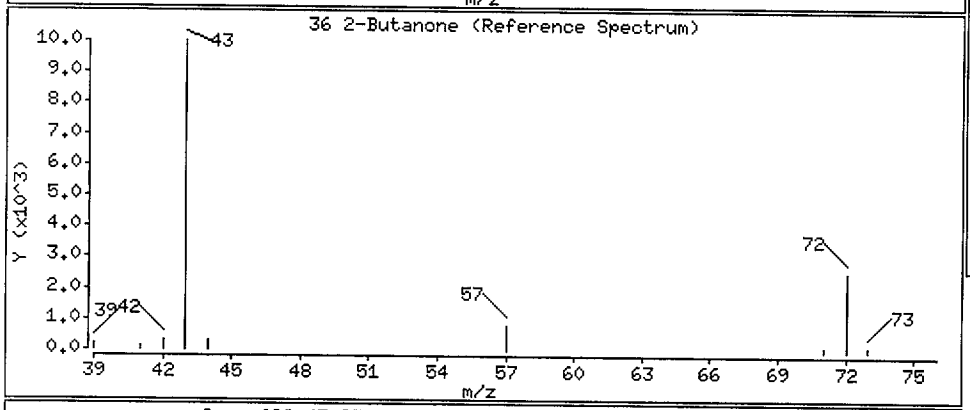
Concentration: 0.067829 ug

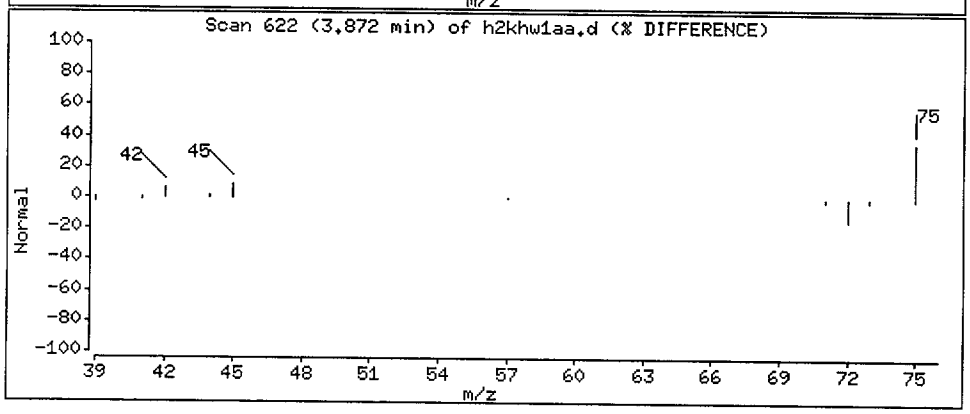












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

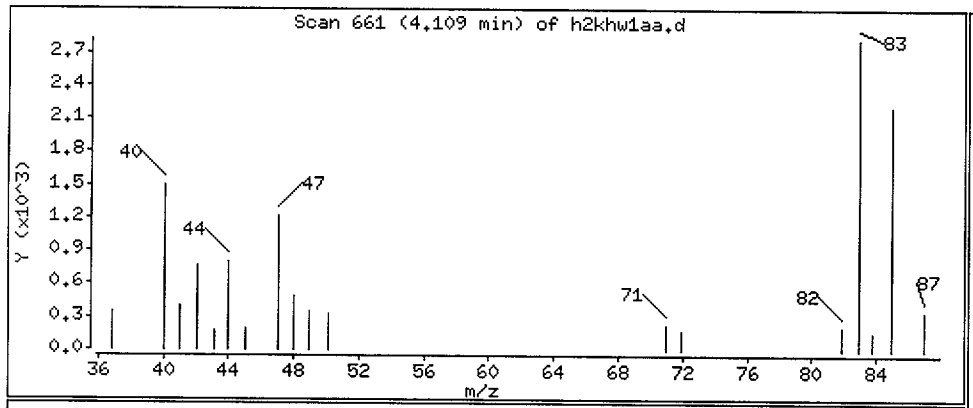
Operator: 22980

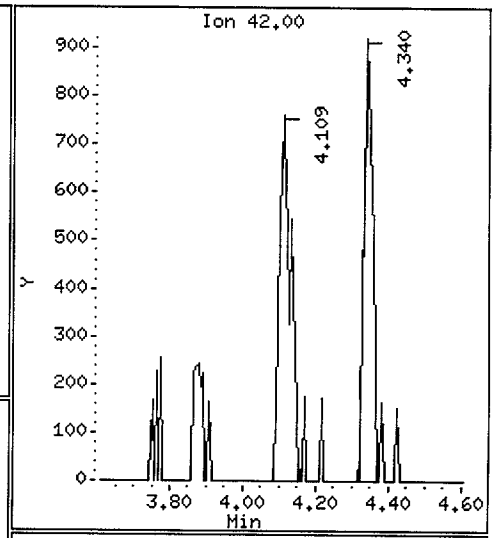
Column phase: J+W 624

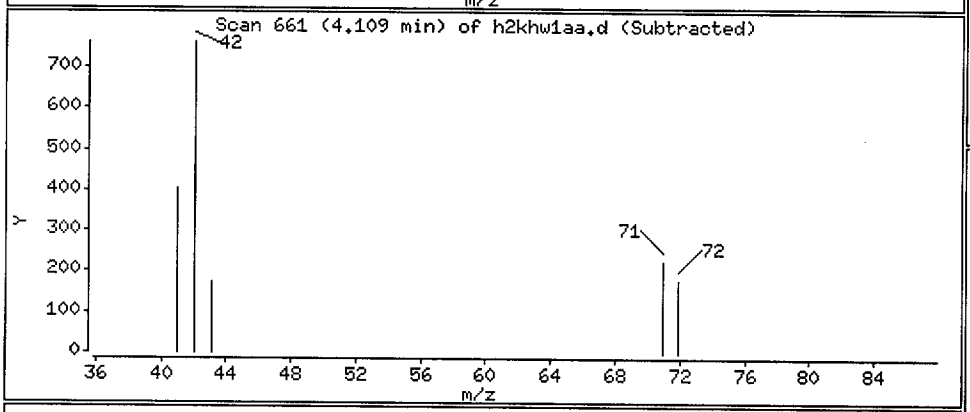
Column diameter: 0.18

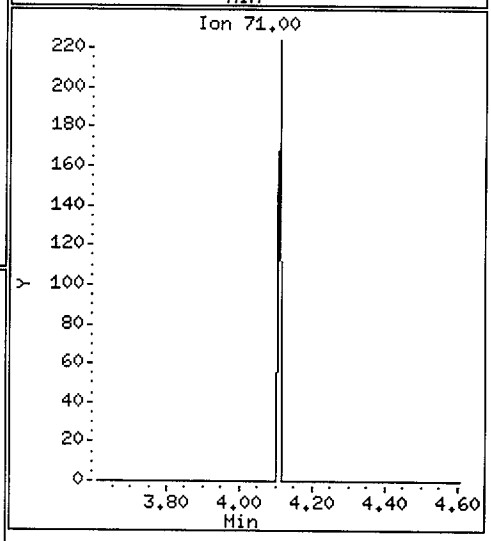
38 *THF

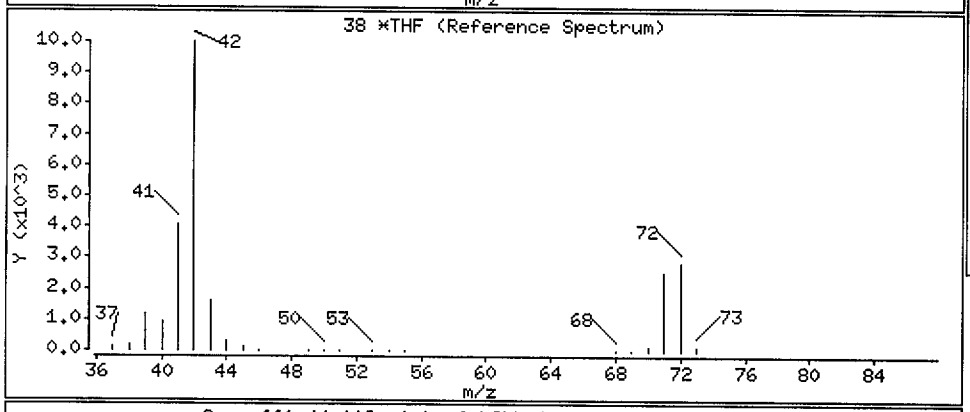
Concentration: 0.029077 ug

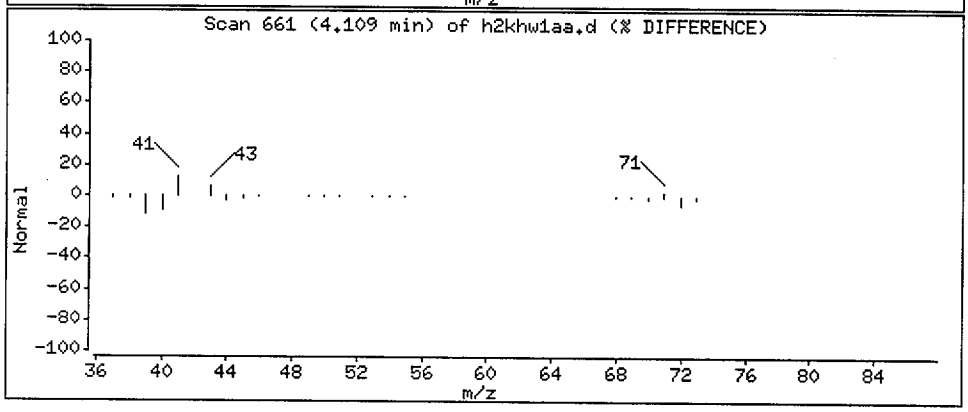












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

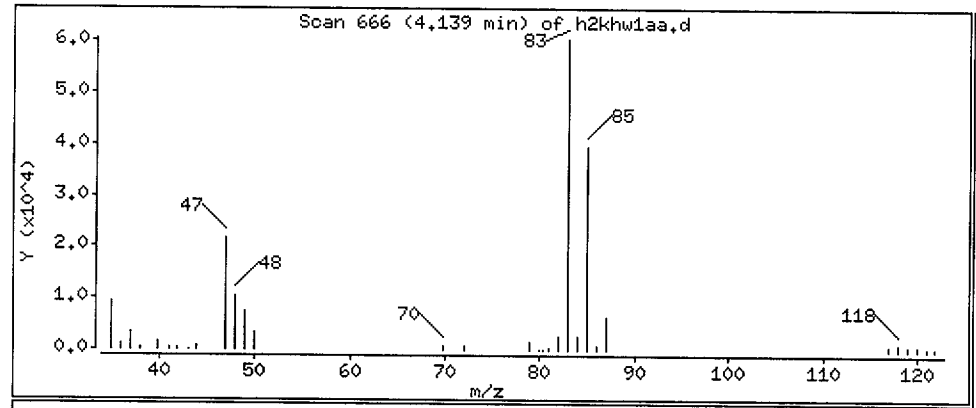
Operator: 22980

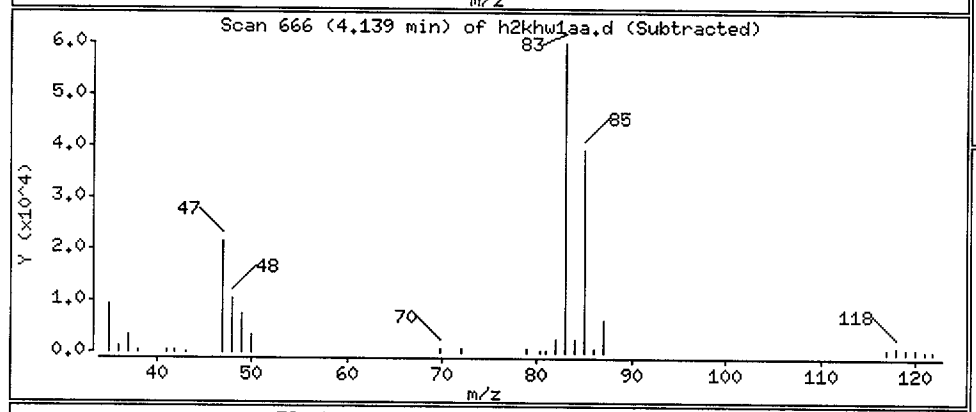
Column phase: J+W 624

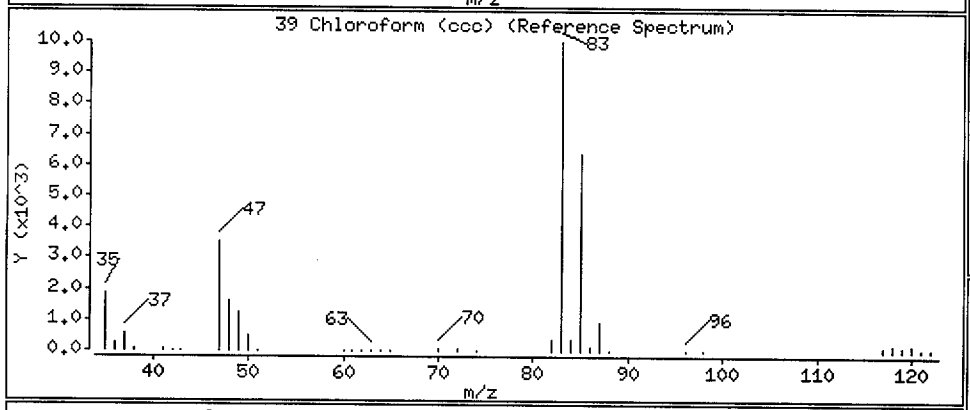
Column diameter: 0.18

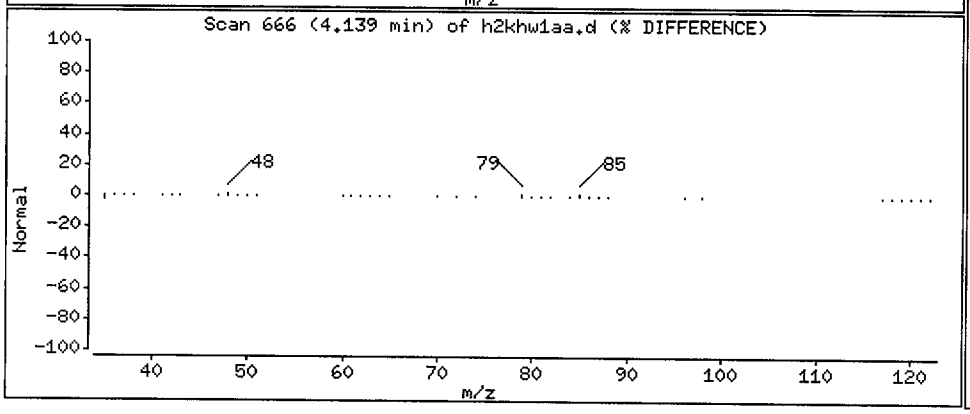
39 Chloroform (ccc)

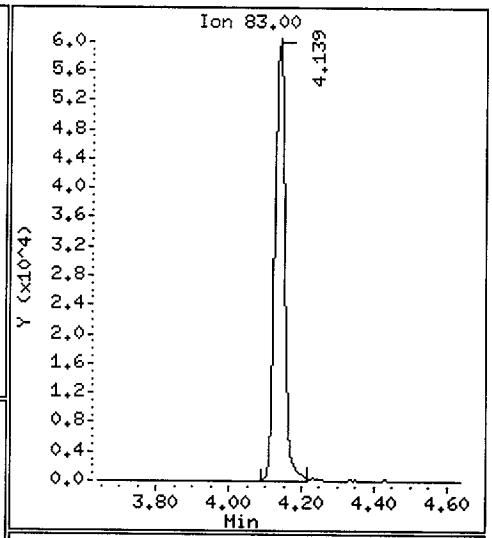
Concentration: 0.072023 ug

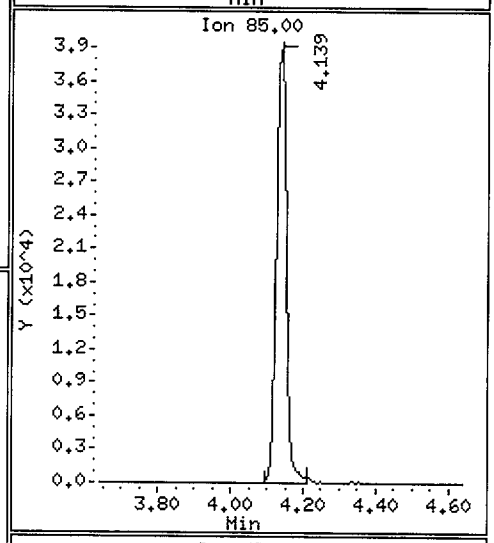


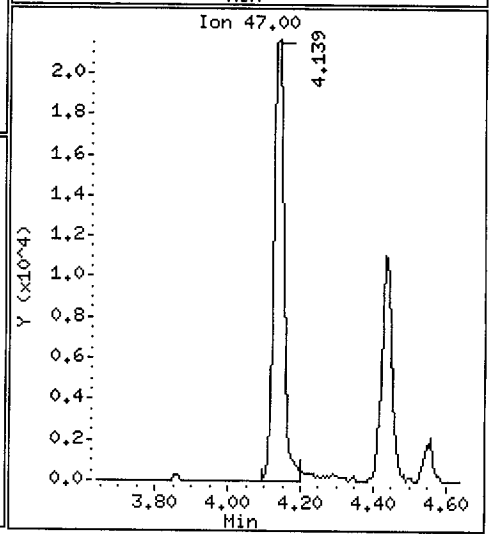












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

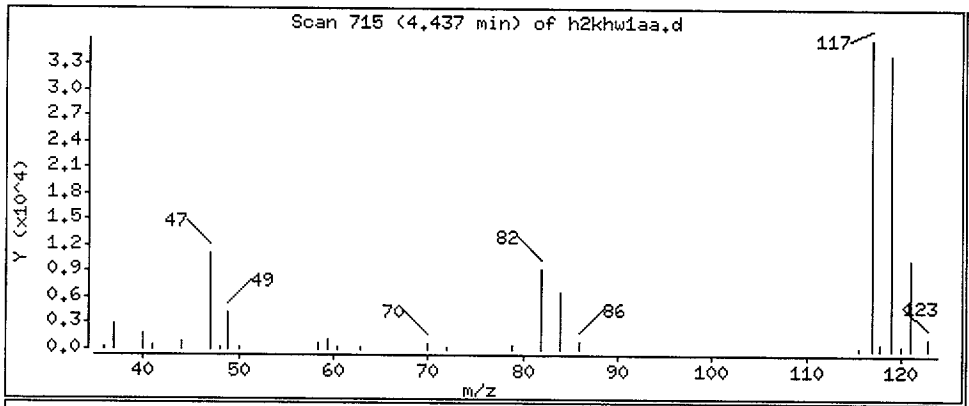
Operator: 22980

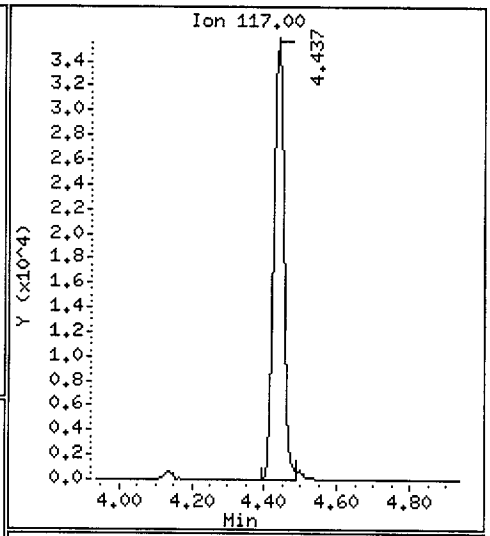
Column phase: J+W 624

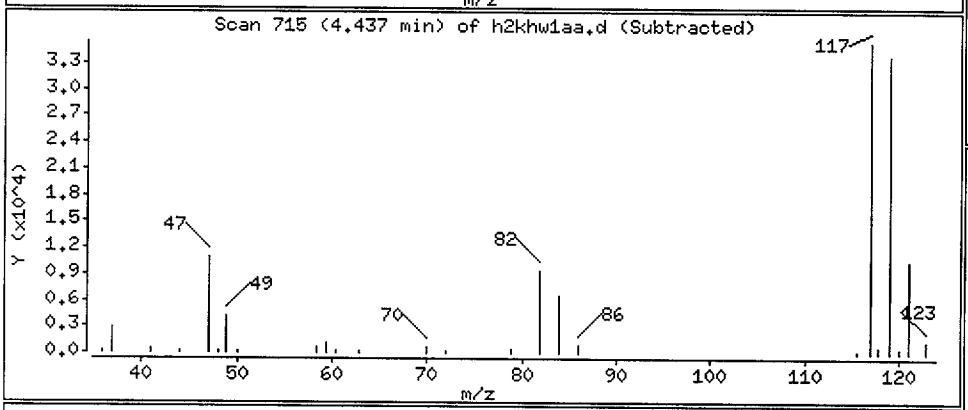
Column diameter: 0.18

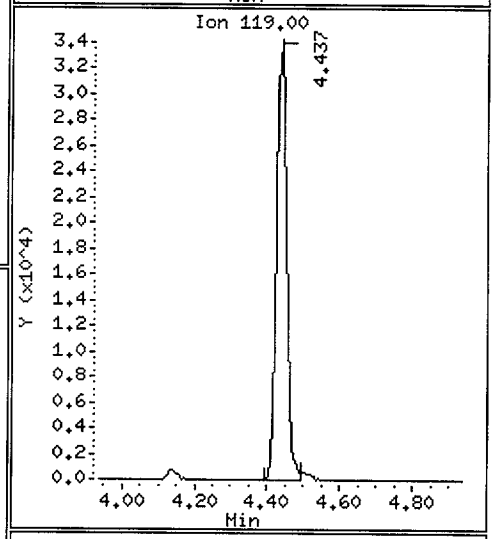
41 Carbon Tetrachloride

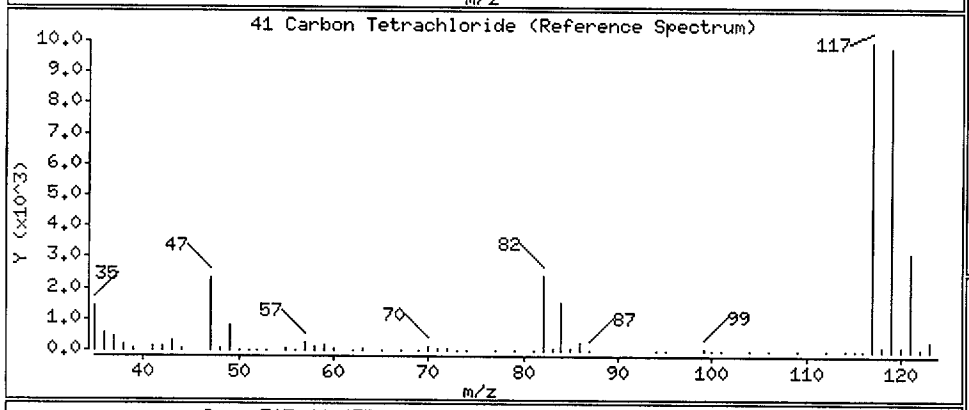
Concentration: 0.046264 ug

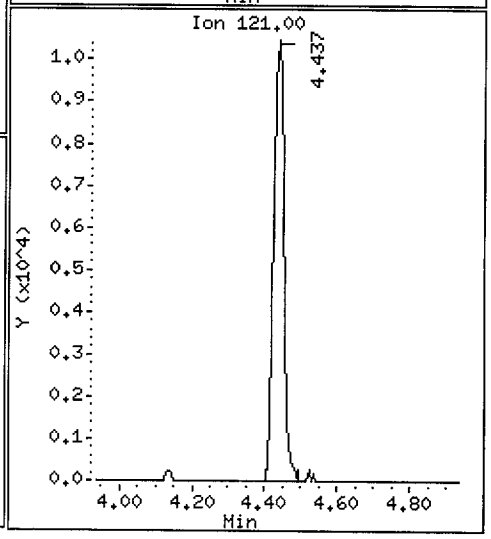


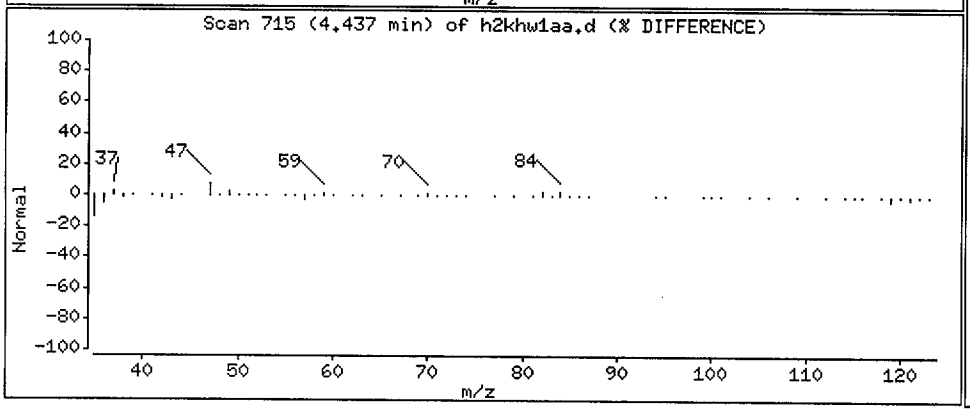












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

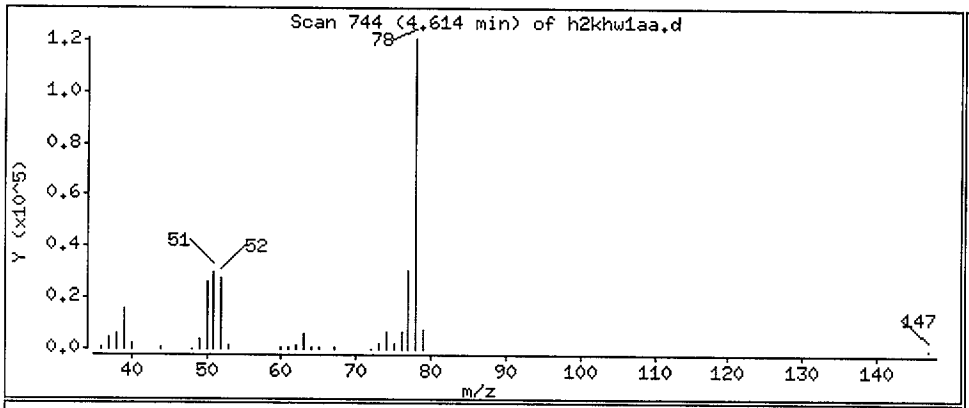
Operator: 22980

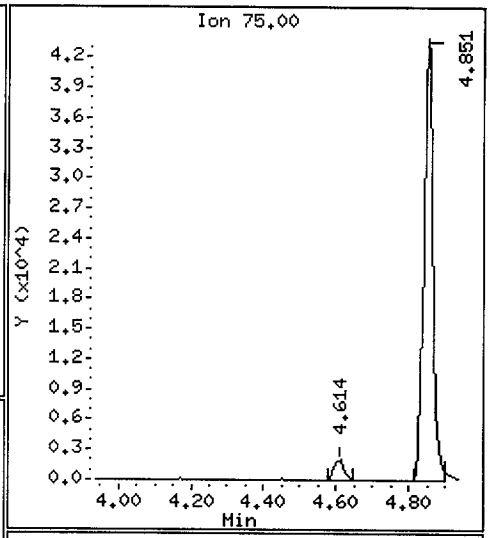
Column phase: J+W 624

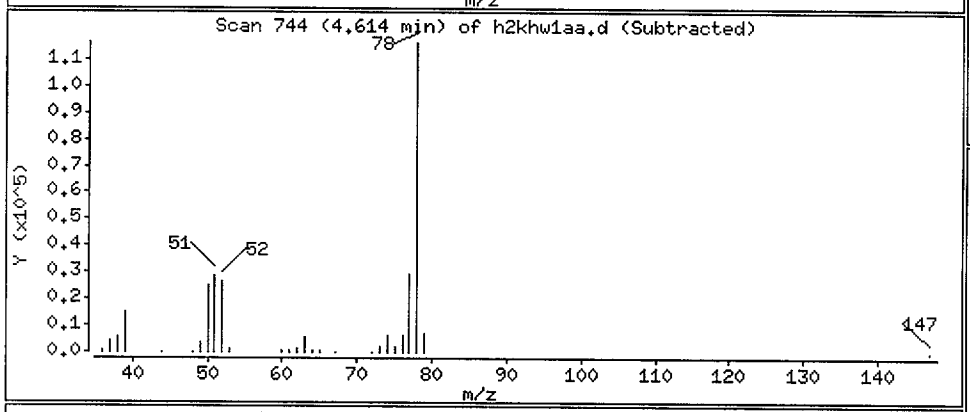
Column diameter: 0.18

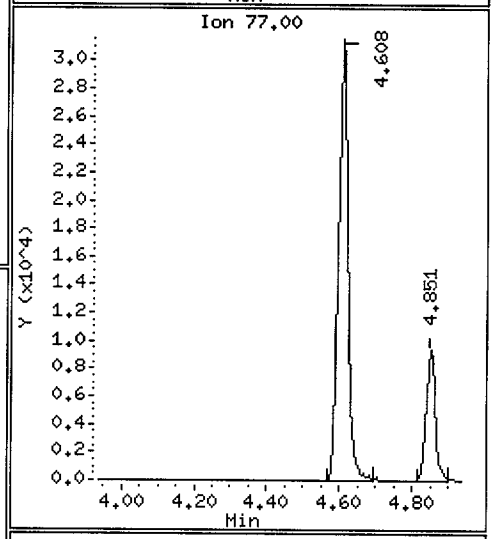
42 1,1-Dichloropropene

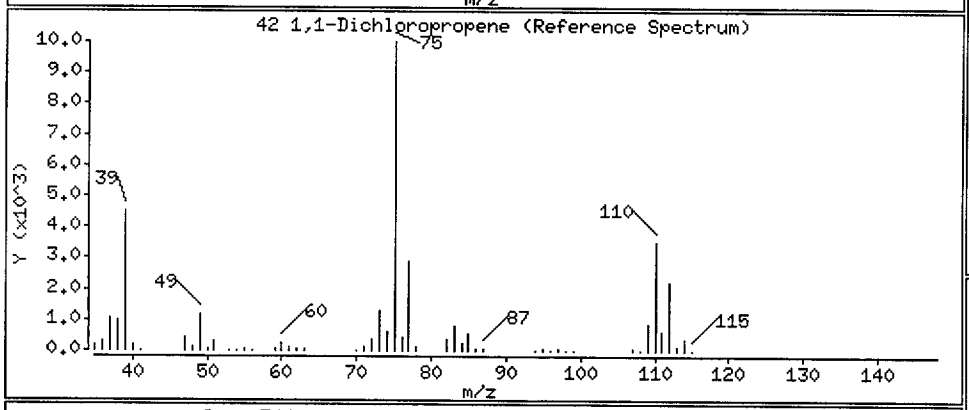
Concentration: 0.0024641 ug

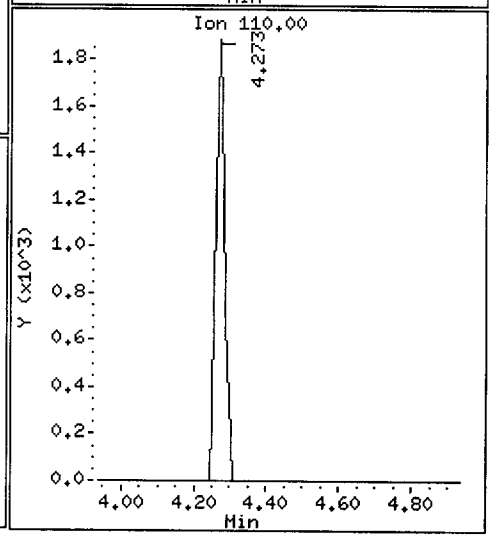


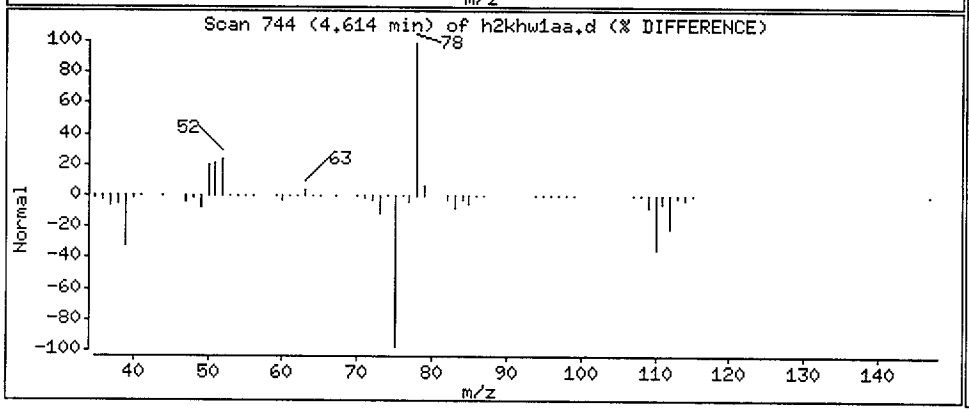












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

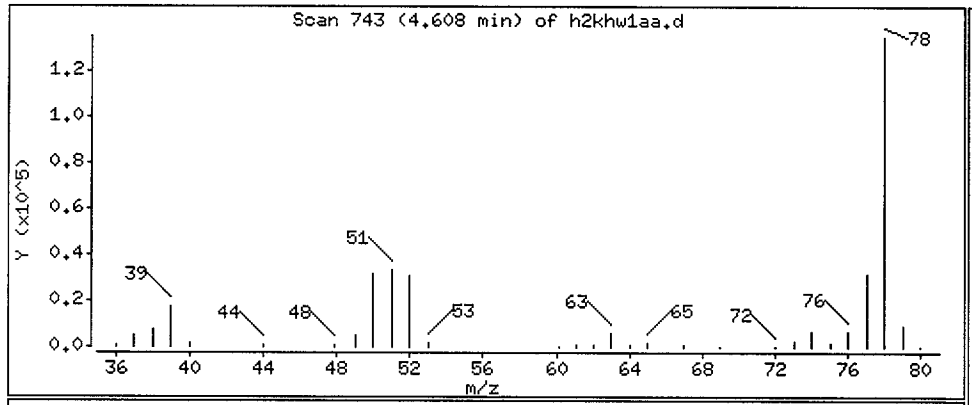
Operator: 22980

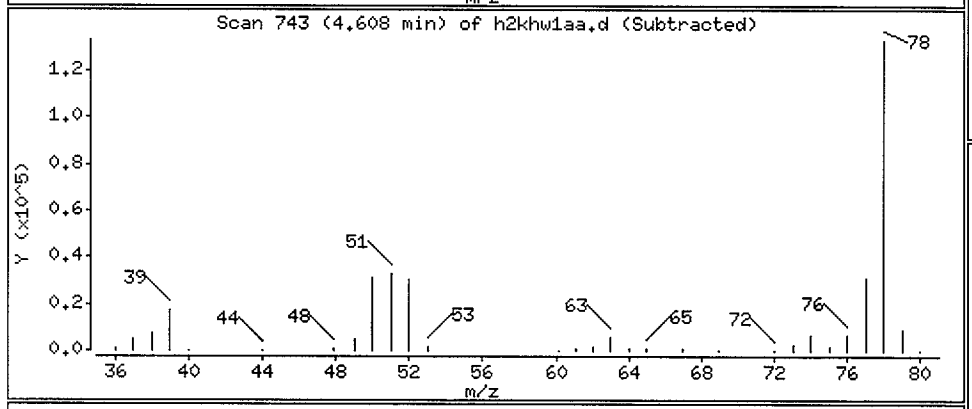
Column phase: J+W 624

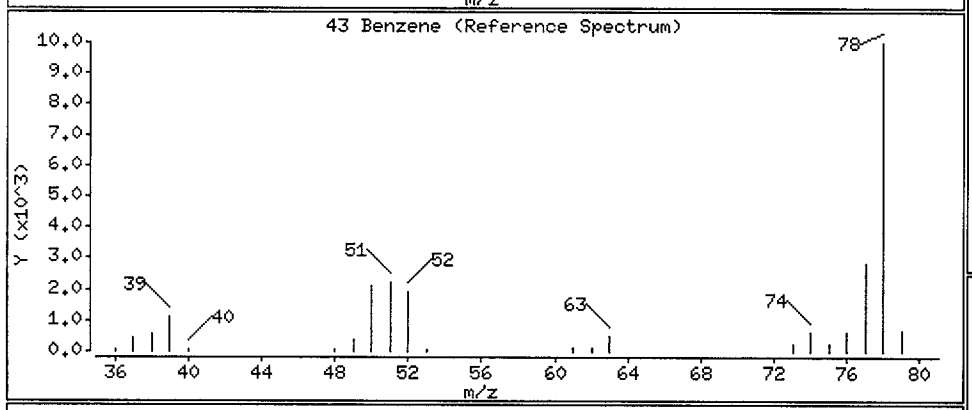
Column diameter: 0.18

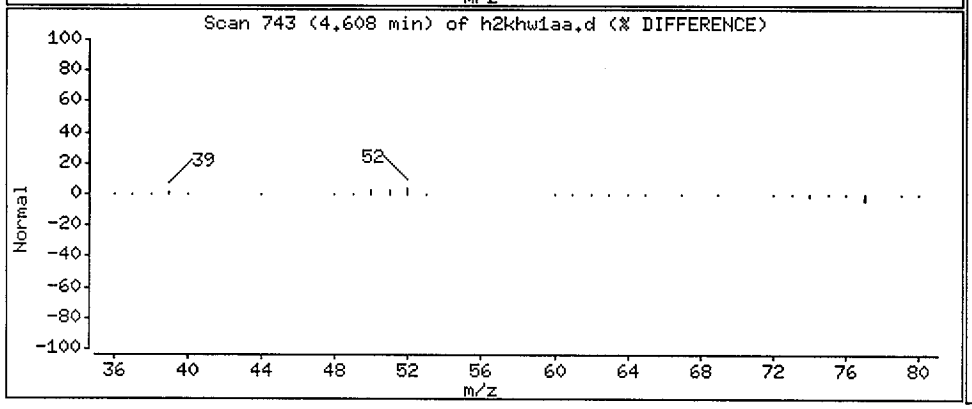
43 Benzene

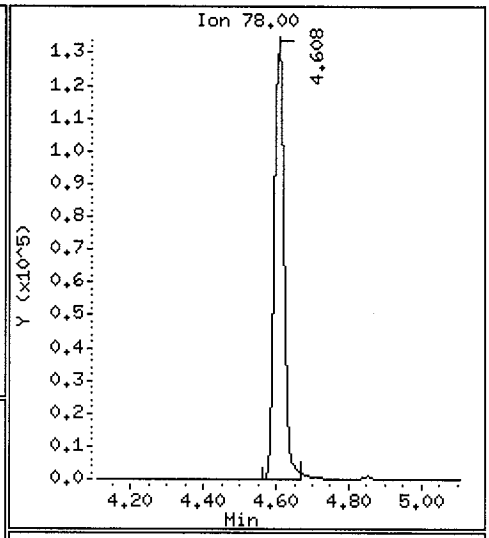
Concentration: 0.058177 ug

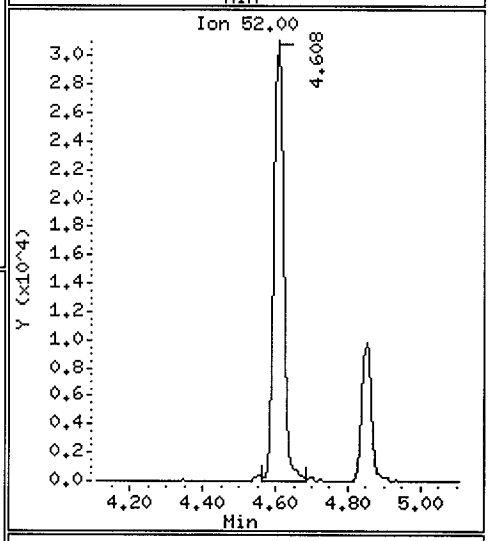


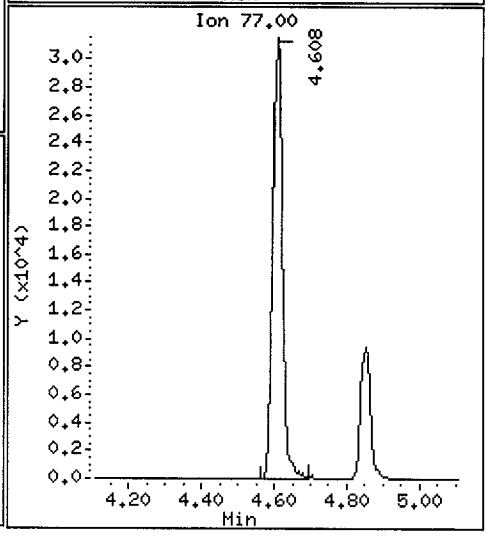












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

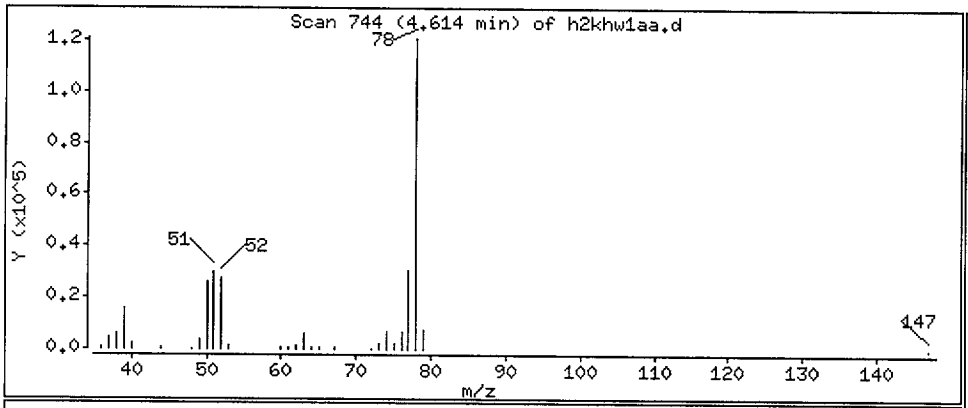
Operator: 22980

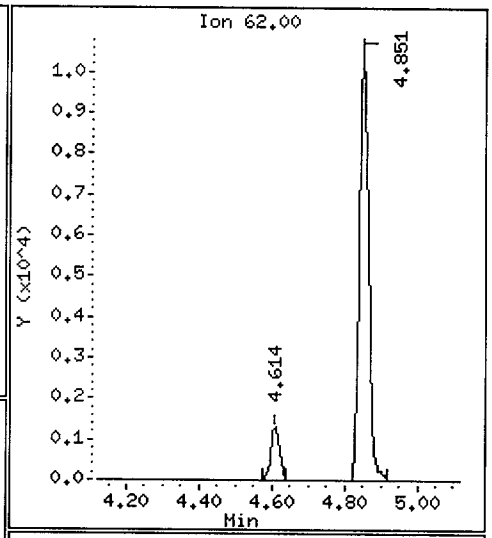
Column phase: J+W 624

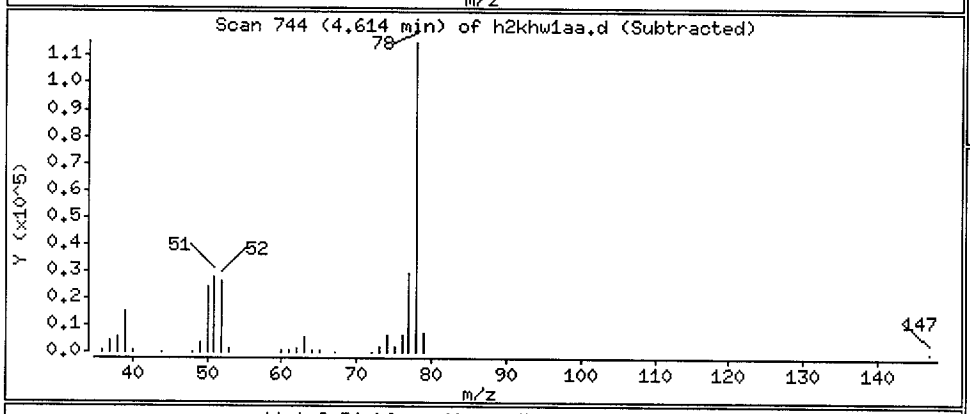
Column diameter: 0.18

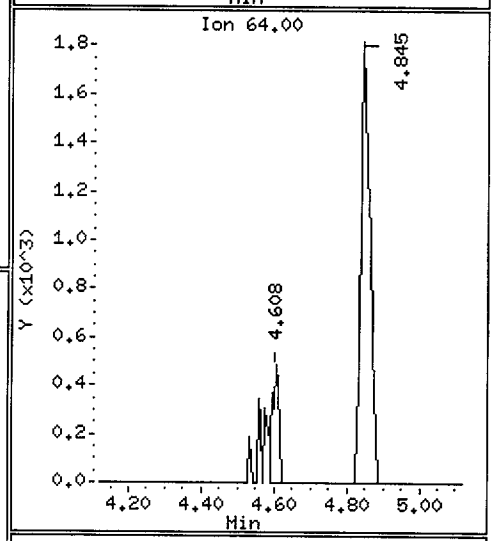
44 1,2-Dichloroethane

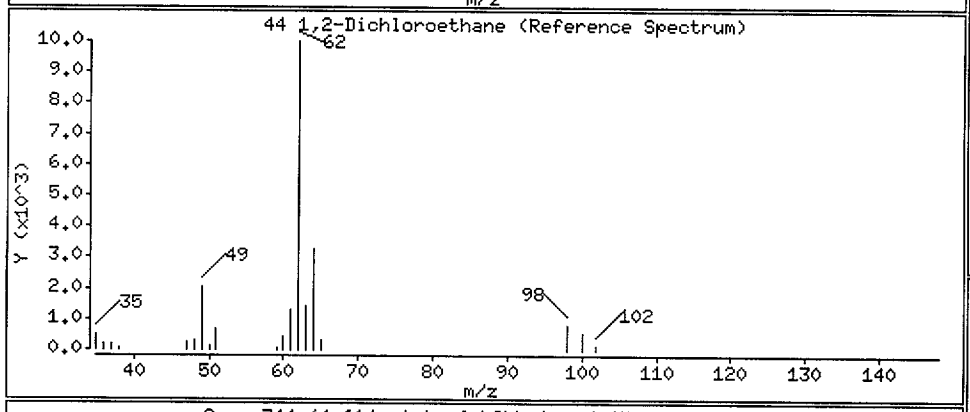
Concentration: 0.0031433 ug

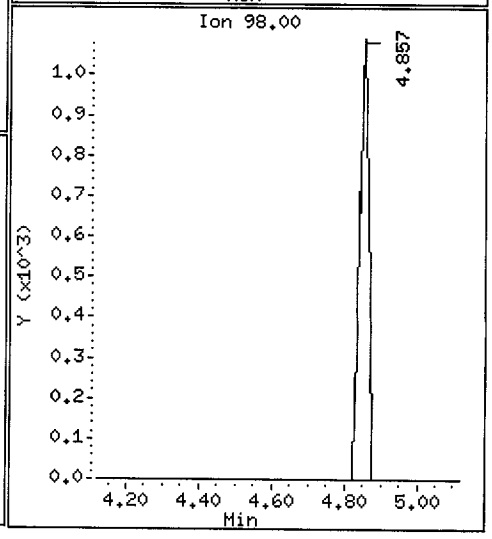


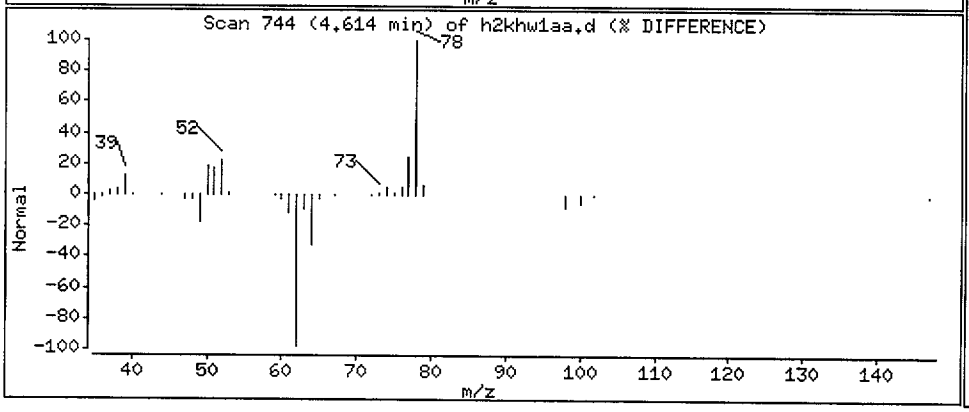












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

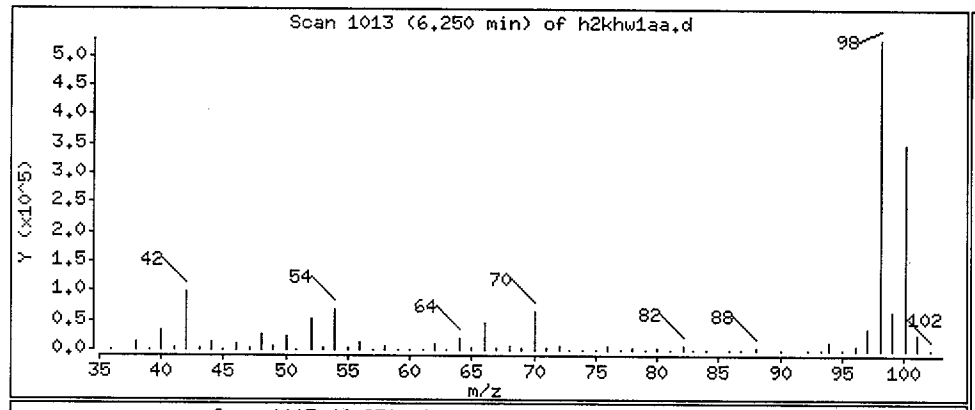
Operator: 22980

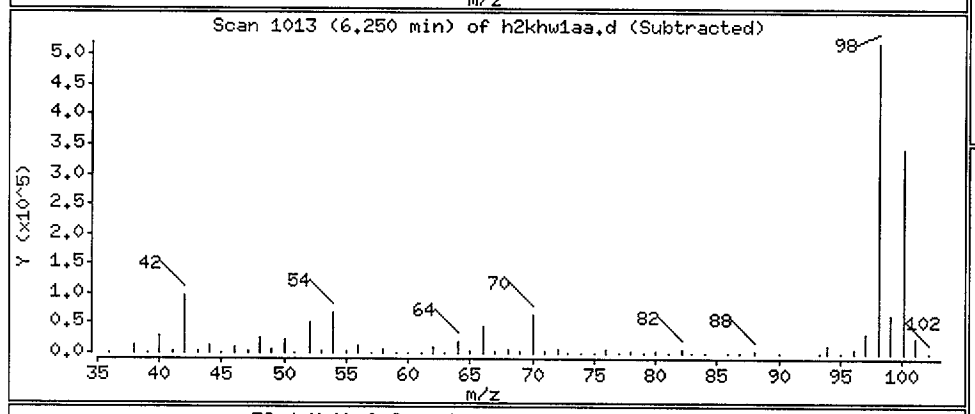
Column phase: J+W 624

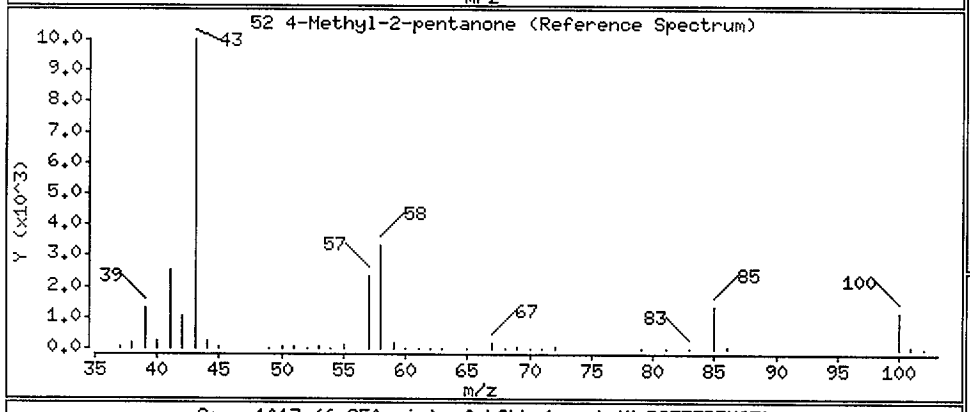
Column diameter: 0.18

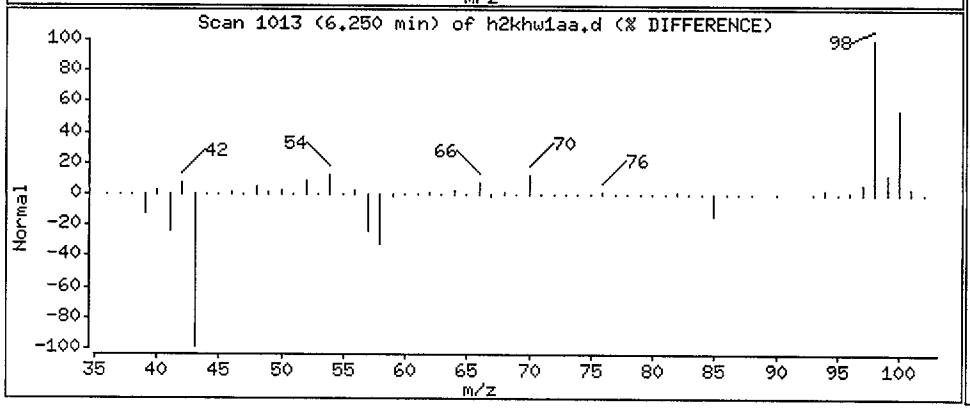
52 4-Methyl-2-pentanone

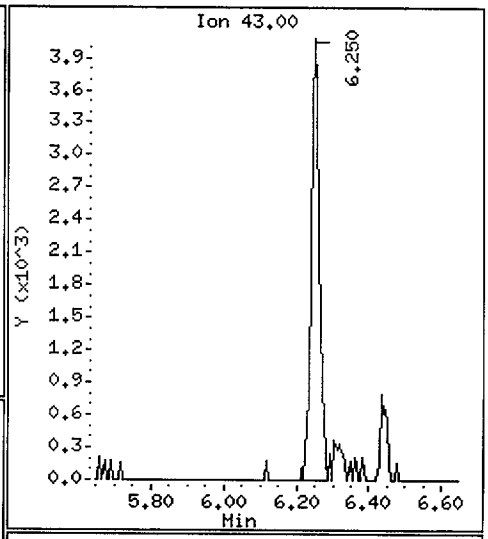
Concentration: 0.029974 ug

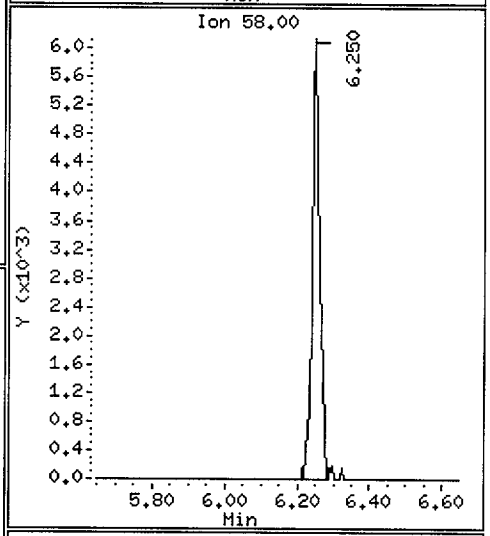


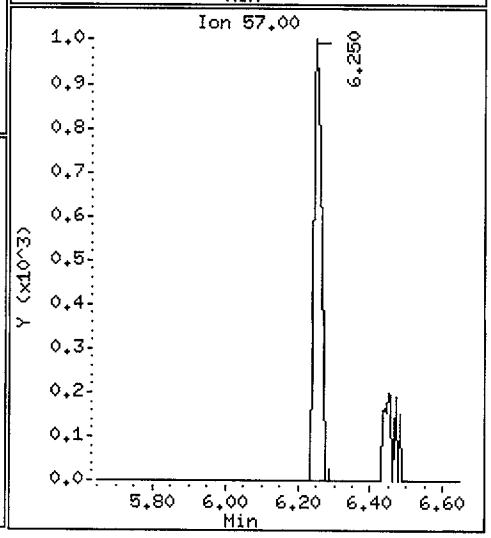












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

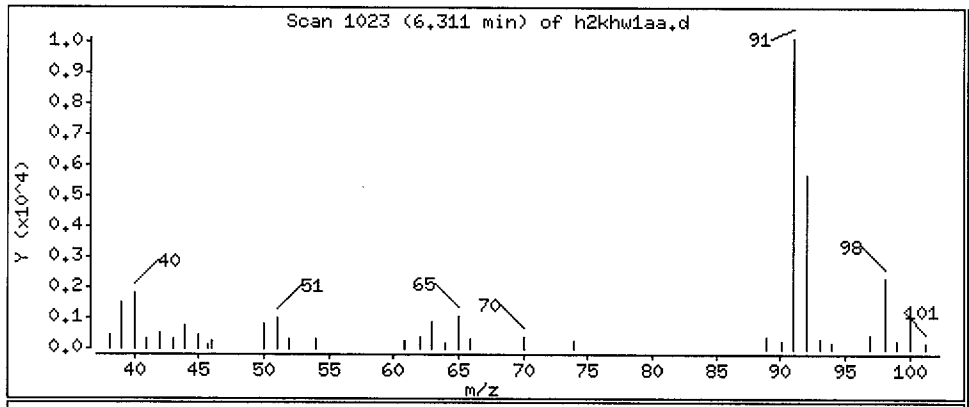
Operator: 22980

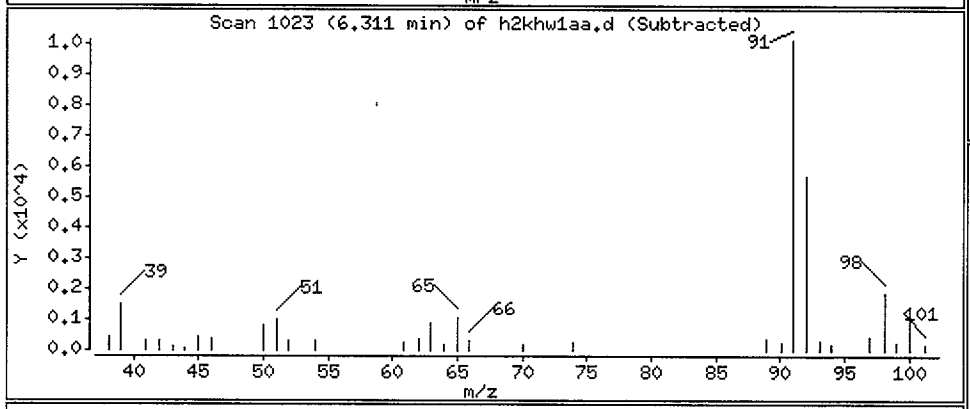
Column phase: J+W 624

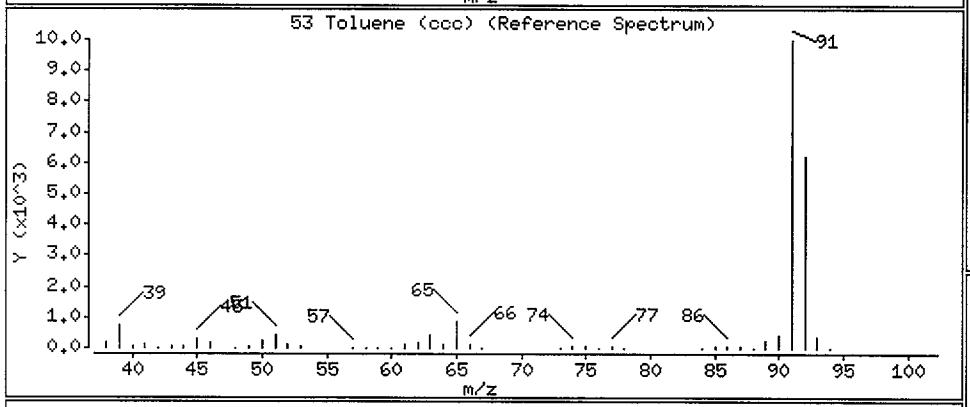
Column diameter: 0.18

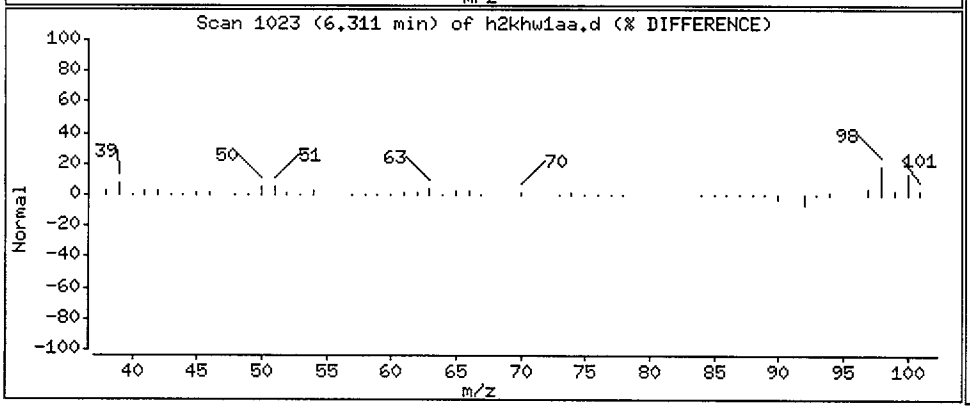
53 Toluene (ccc)

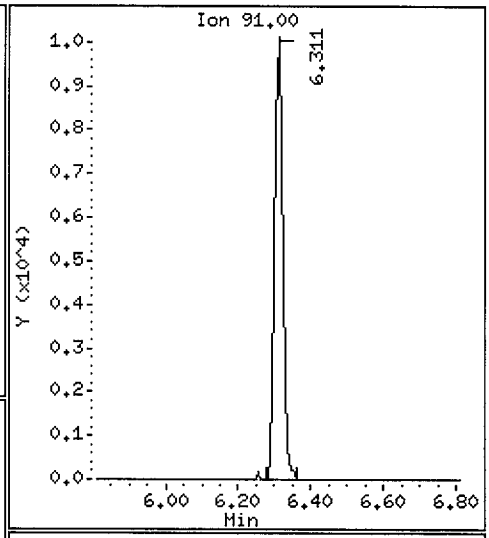
Concentration: 0.0032530 ug

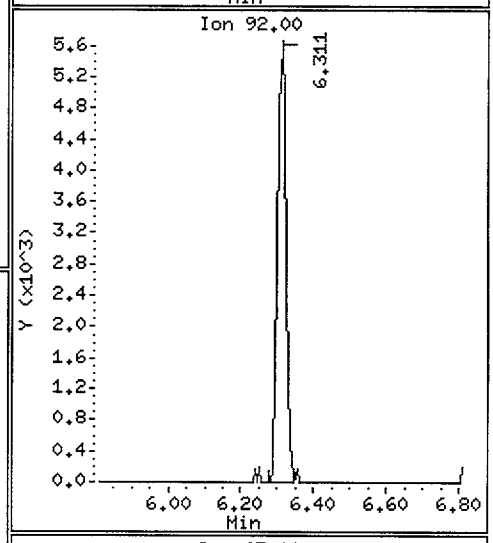


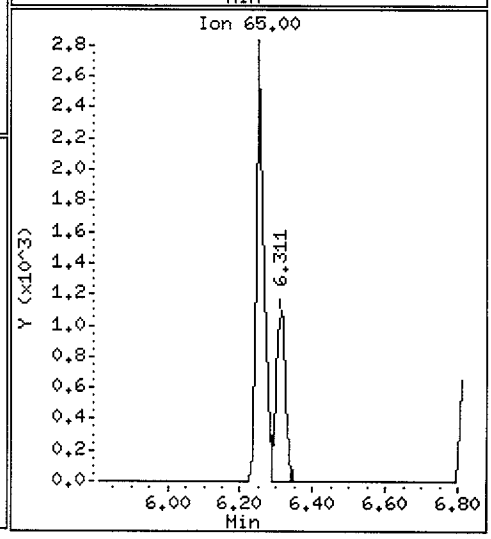












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

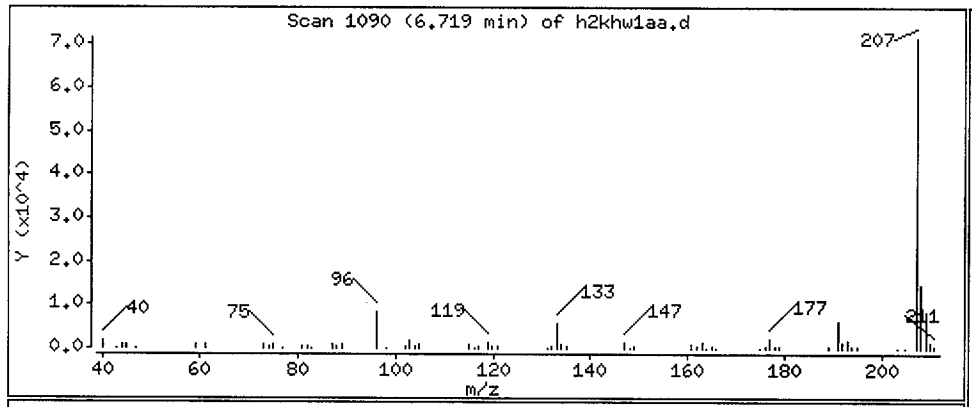
Operator: 22980

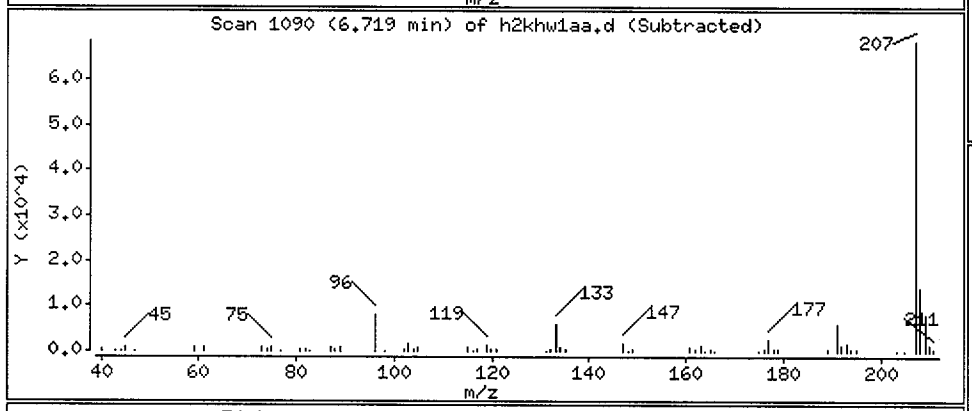
Column phase: J+W 624

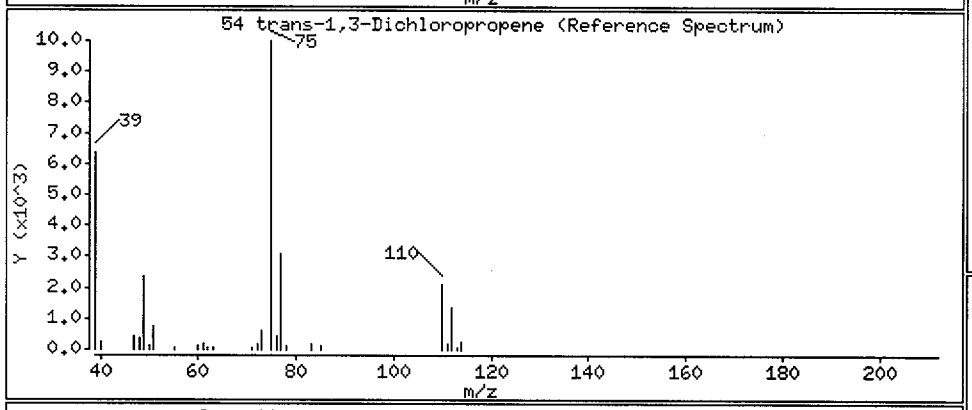
Column diameter: 0.18

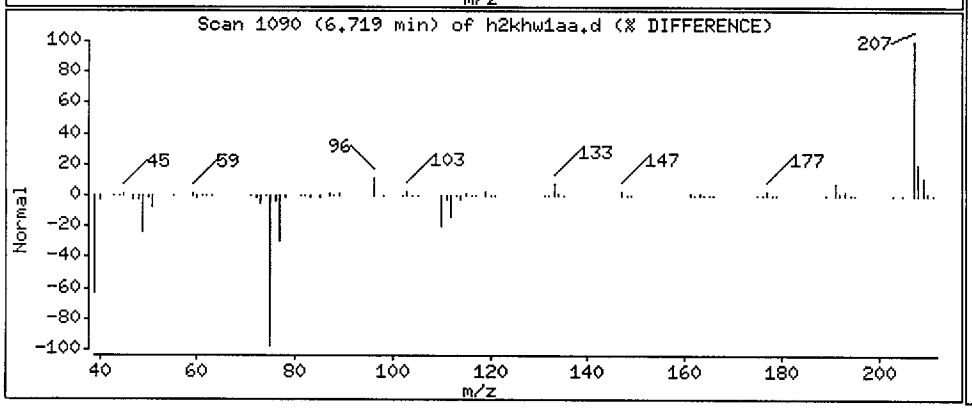
54 trans-1,3-Dichloropropene

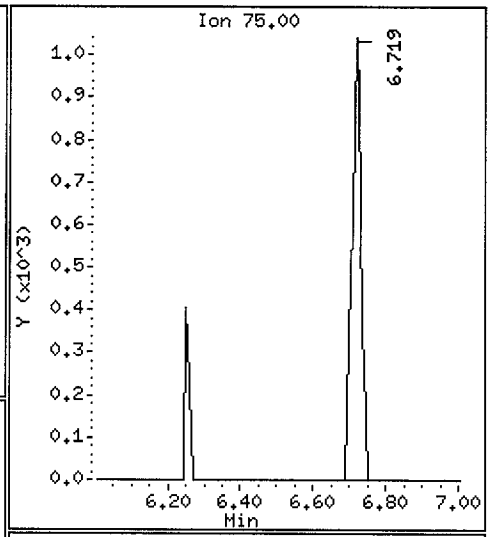
Concentration: 0.0023045 ug

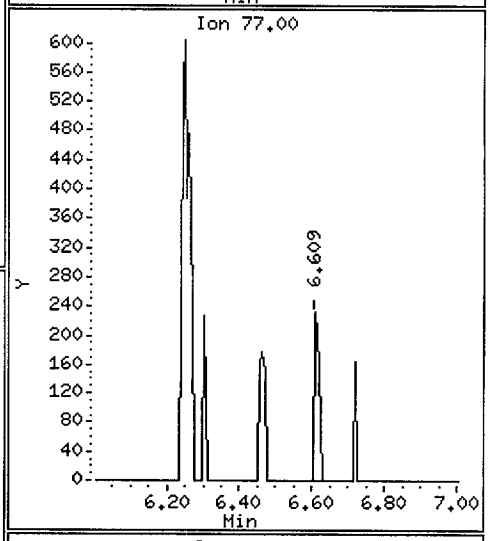


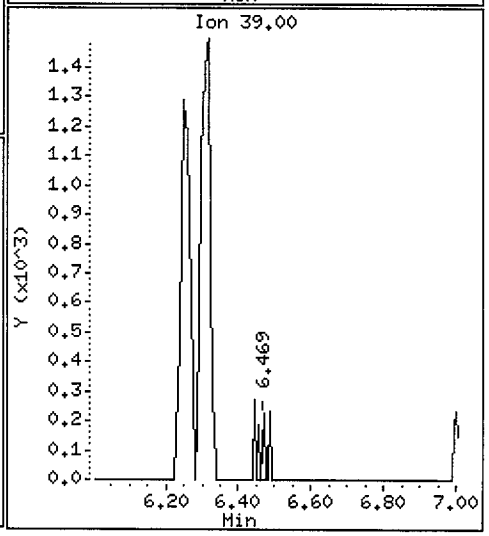












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

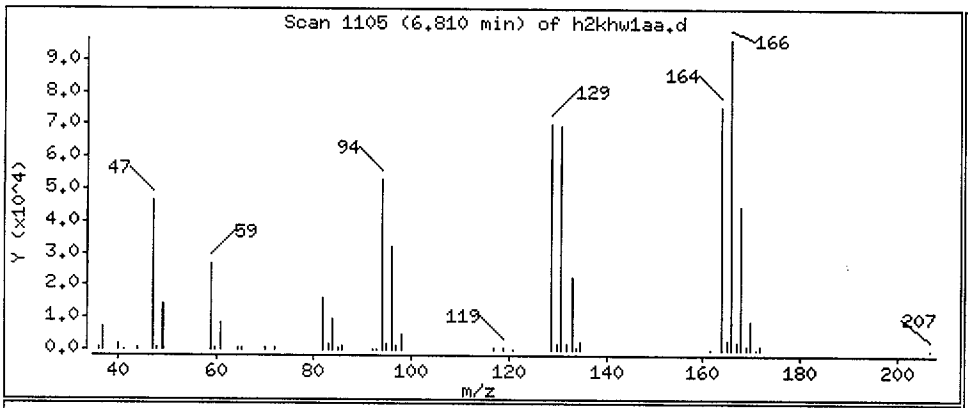
Operator: 22980

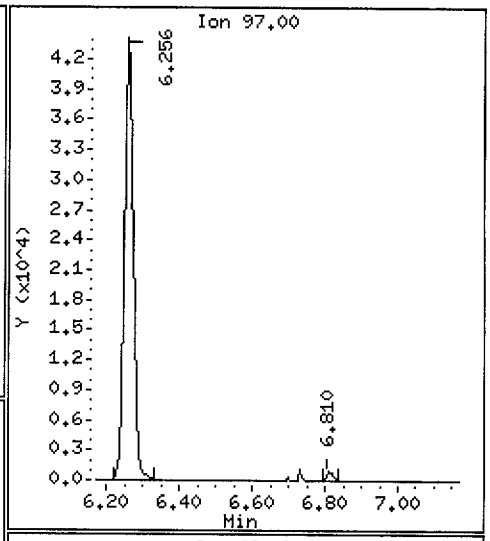
Column phase: J+W 624

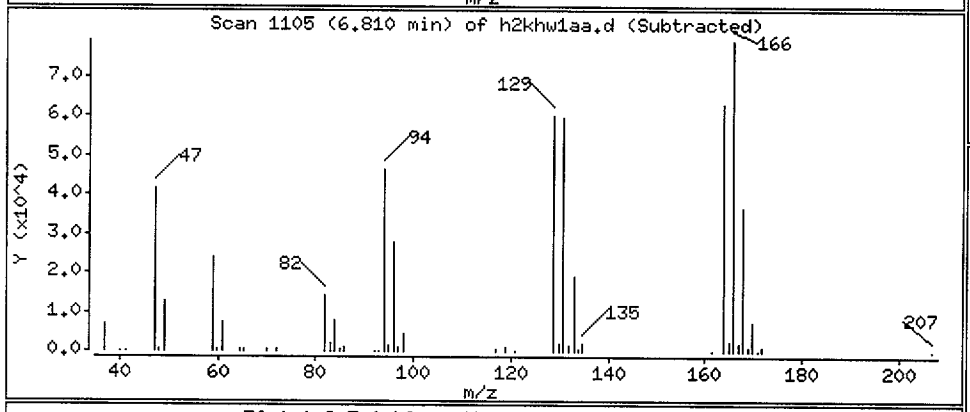
Column diameter: 0.18

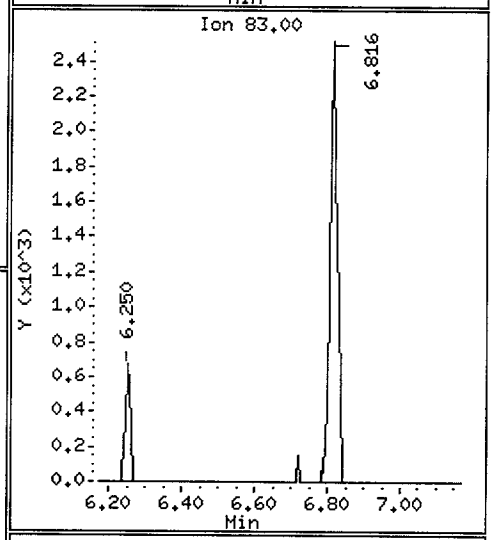
56 1,1,2-Trichloroethane

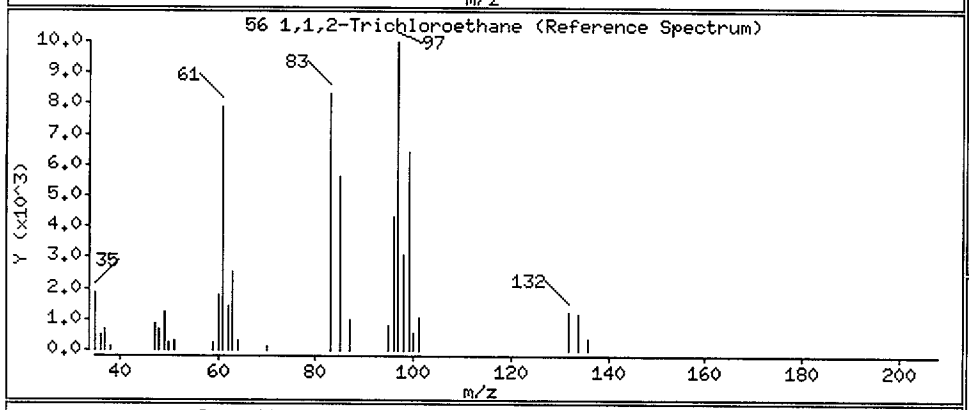
Concentration: 0.0036030 ug

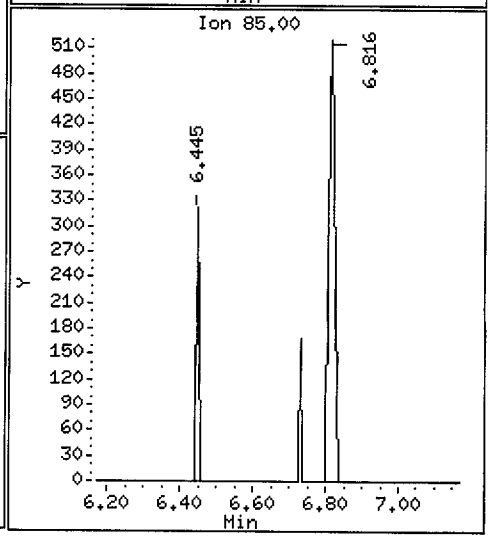


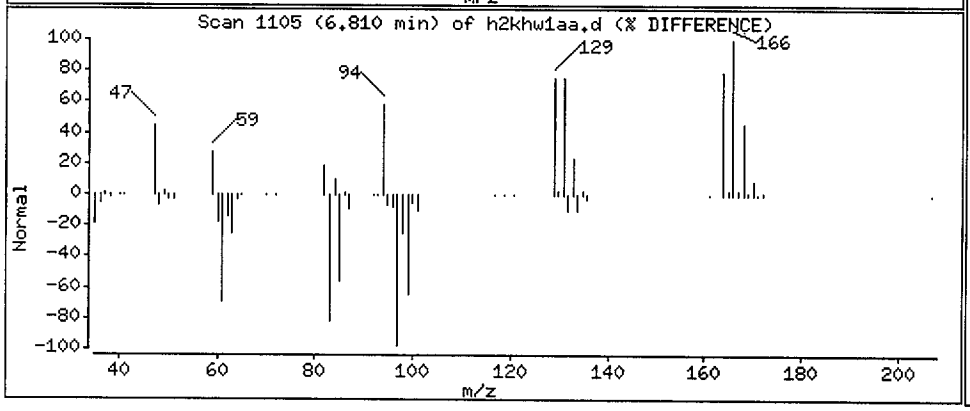












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

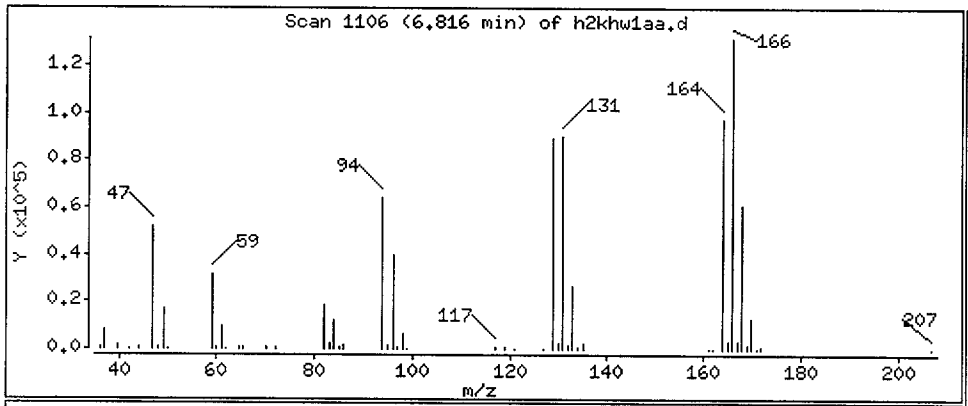
Operator: 22980

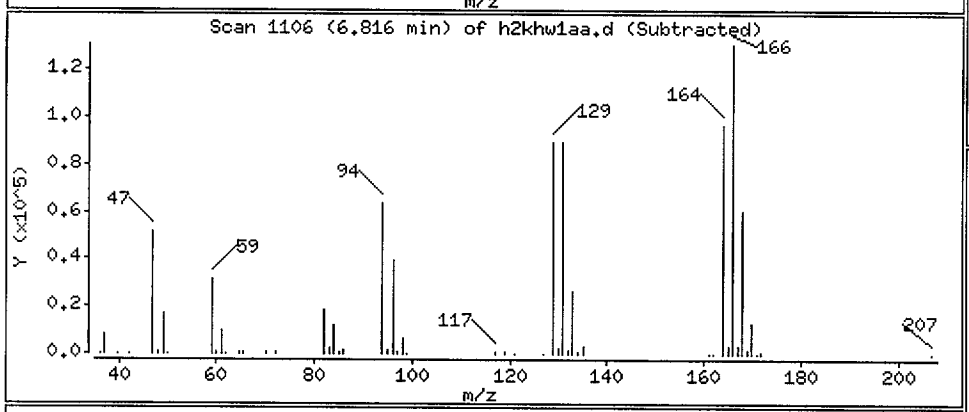
Column phase: J+W 624

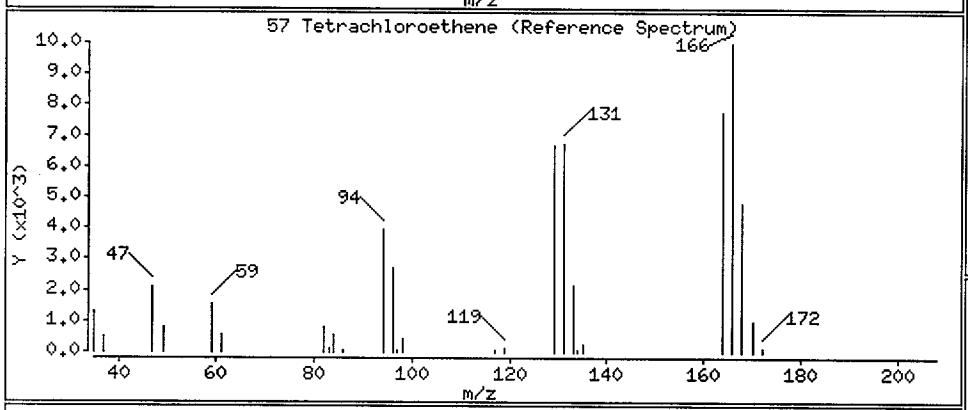
Column diameter: 0.18

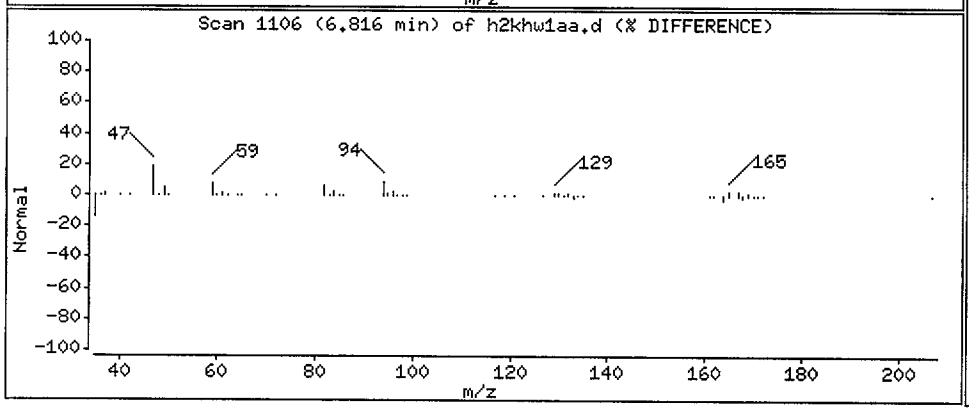
57 Tetrachloroethene

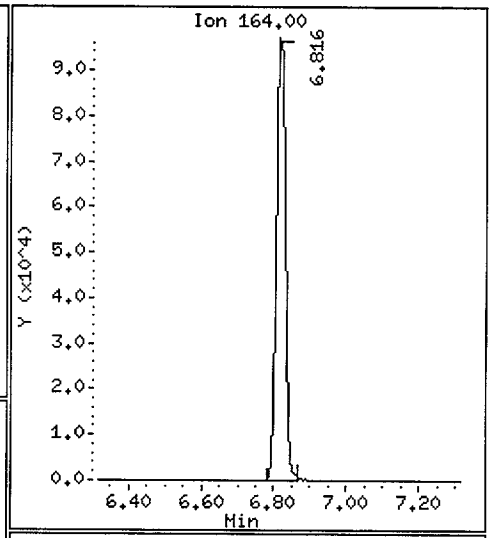
Concentration: 0.16054 ug

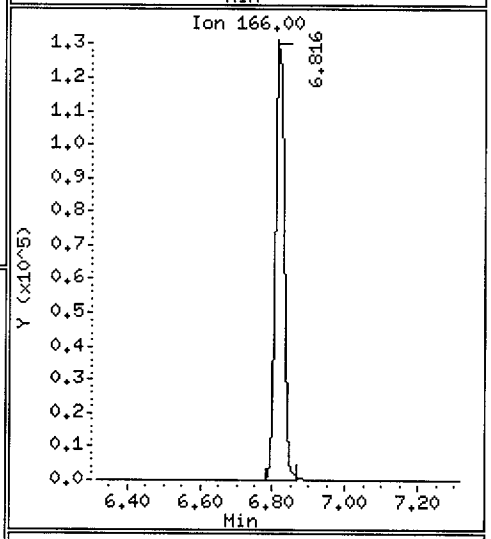


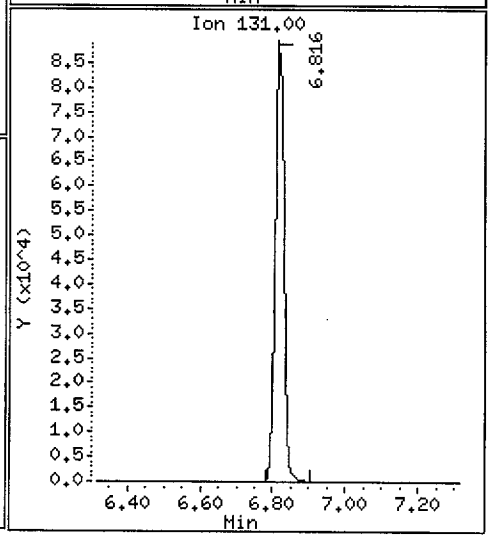












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

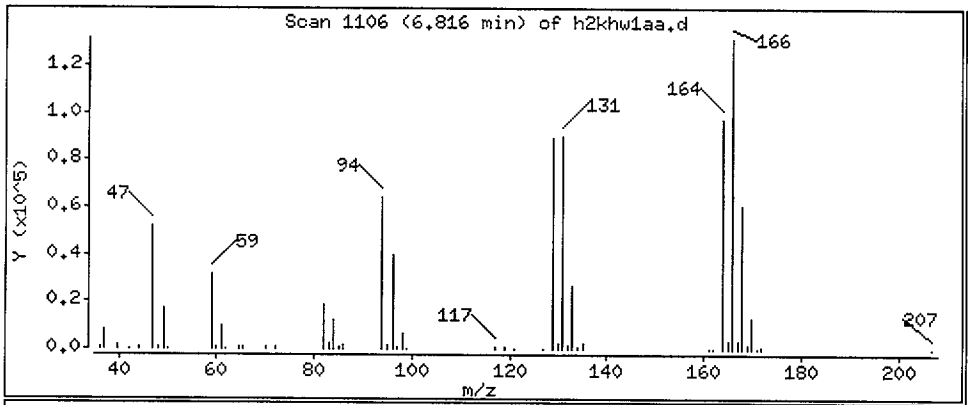
Operator: 22980

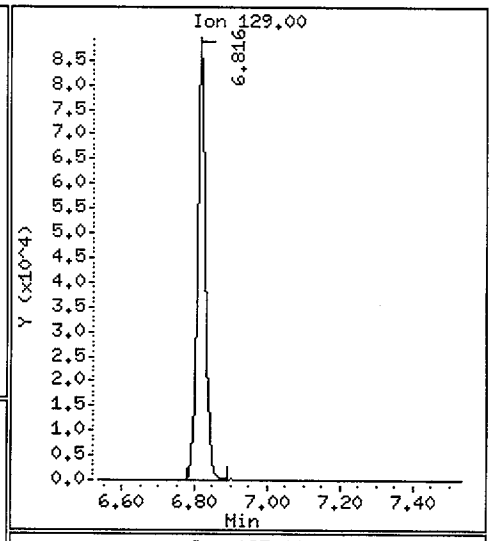
Column phase: J+W 624

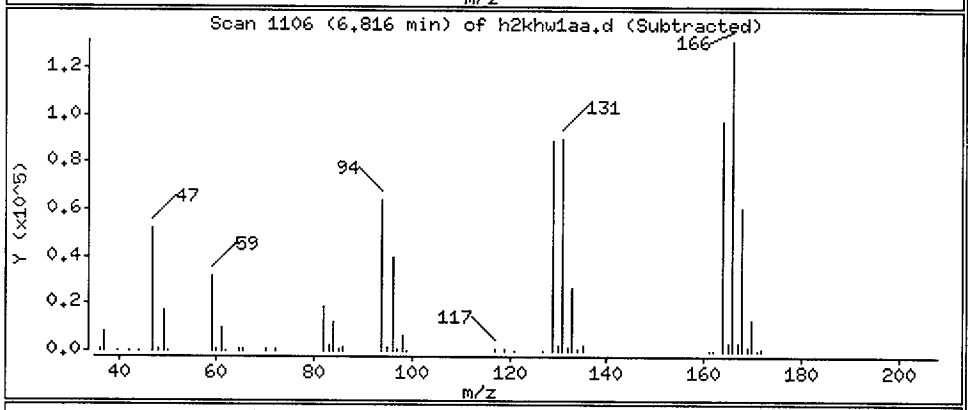
Column diameter: 0.18

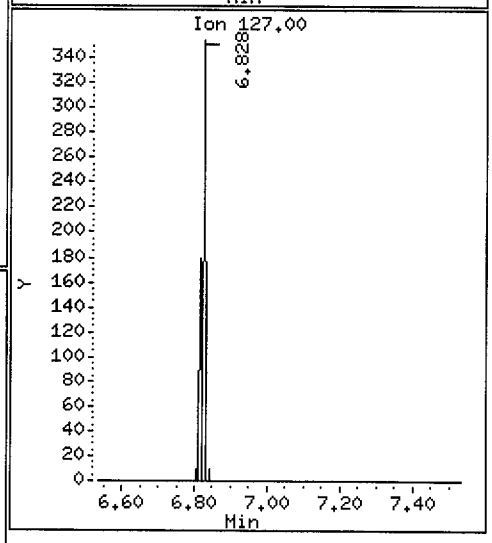
60 Chlorodibromomethane

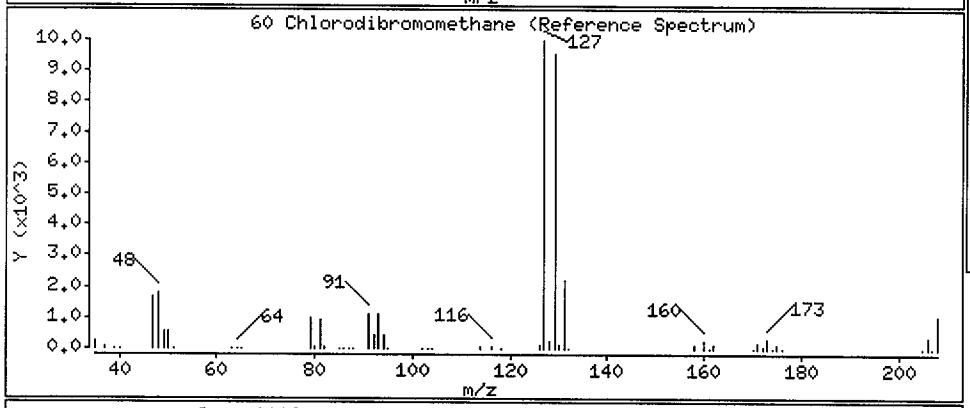
Concentration: 0.31859 ug

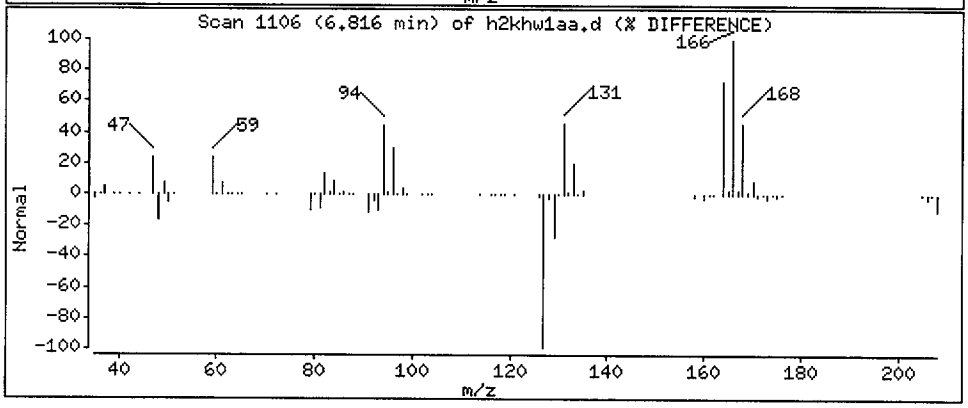












Data File: /chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

Client ID: AUDIT VOST #4

Instrument: mx.i

Sample Info: H2KHW1AA,1,0,,,

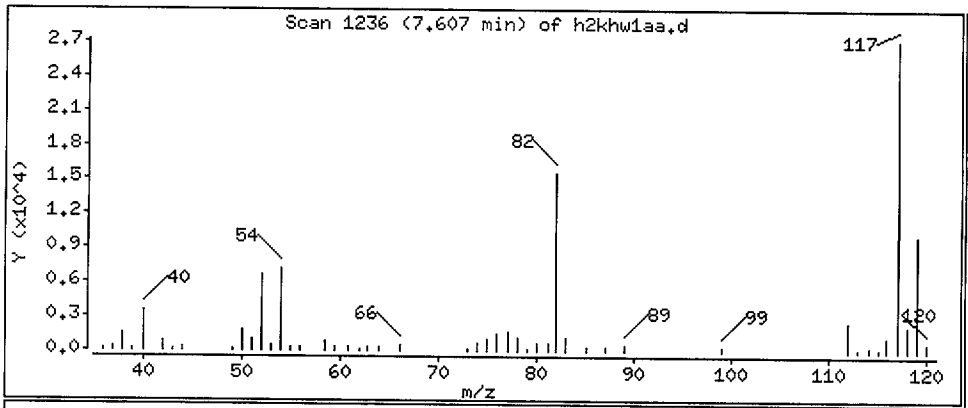
Operator: 22980

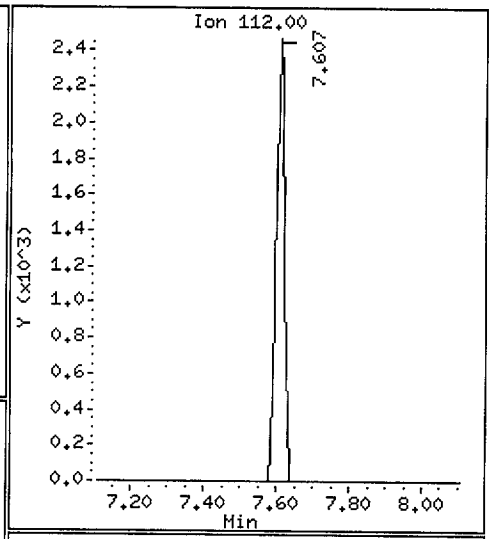
Column phase: J+W 624

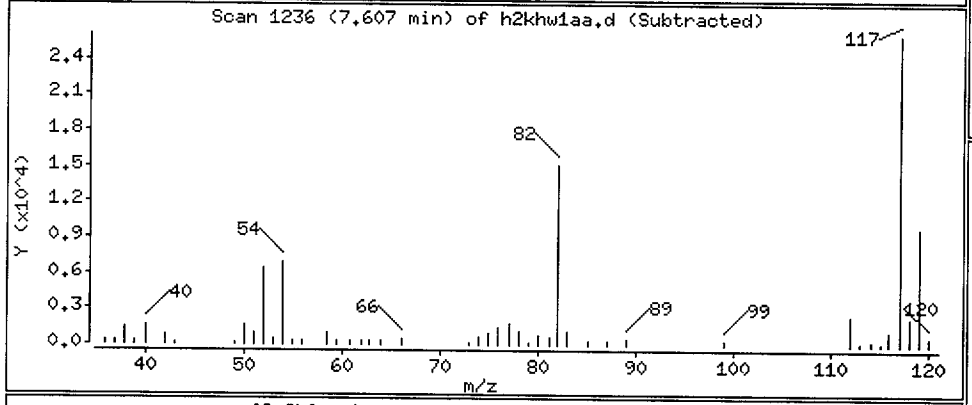
Column diameter: 0.18

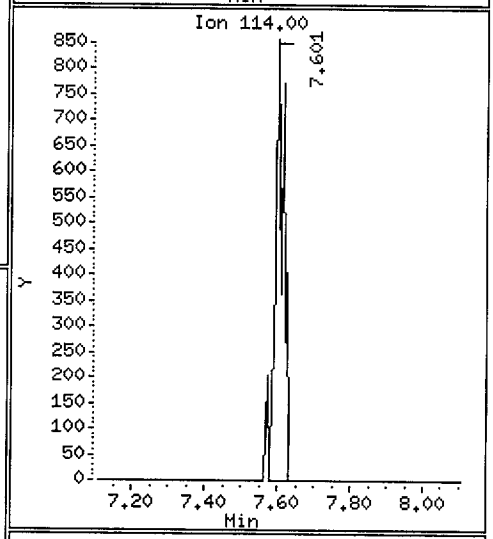
62 Chlorobenzene (spcc)

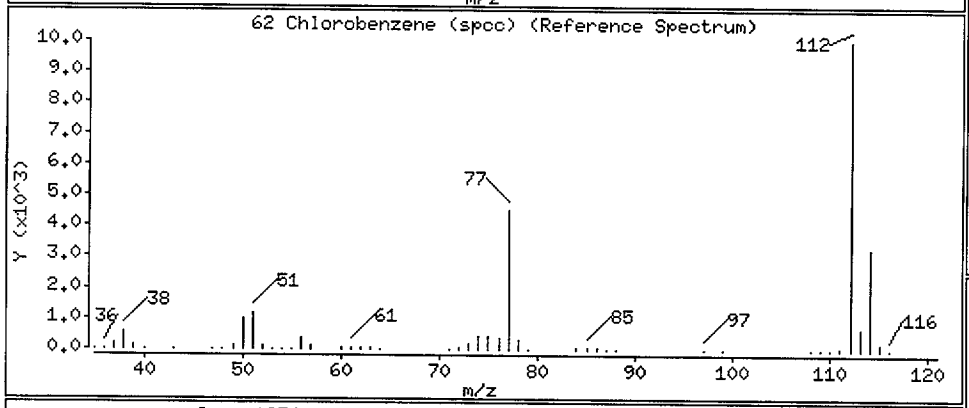
Concentration: 0.0015710 ug

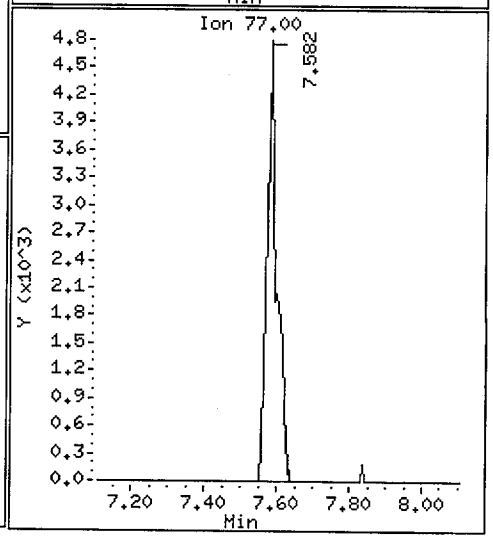


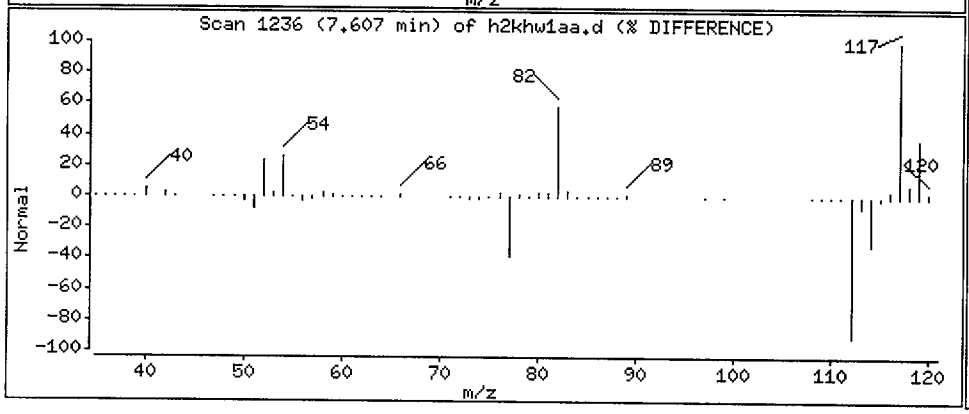












Data File: /var/chem/gcms/mx.i/X040706.b/h2khw1aa.d
Report Date: 18-Apr-2006 14:59

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2khw1aa.d
Lab Smp Id: H2KHW1AA Client Smp ID: AUDIT VOST #4
Inj Date : 07-APR-2006 18:59
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHW1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 2 Chlorobenzene-d5	7.582	1330132	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.719	147969	1.11243846	0.027811	91	NIST02.1	71177	2

S:
4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2khw1aa.d

Date : 07-APR-2006 18:59

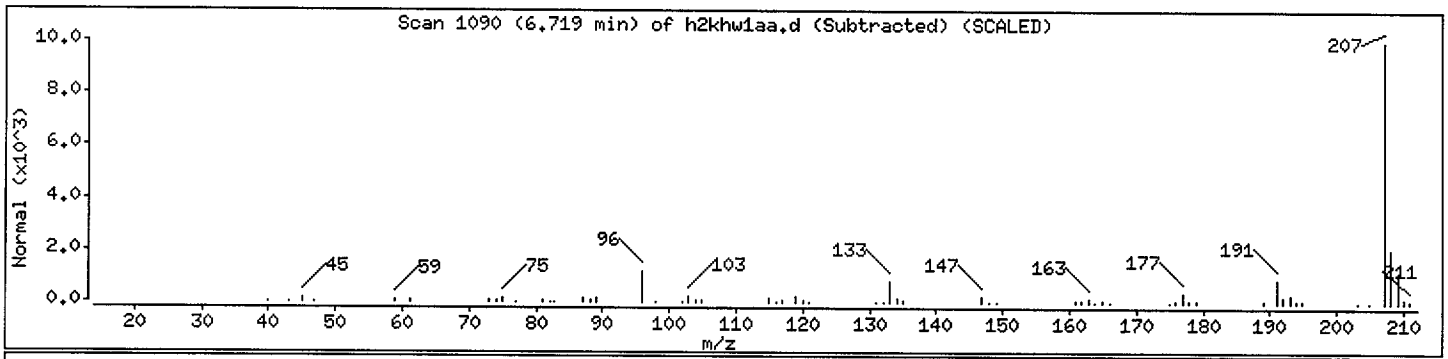
Client ID: AUDIT VOST #4 Instrument: mx.i

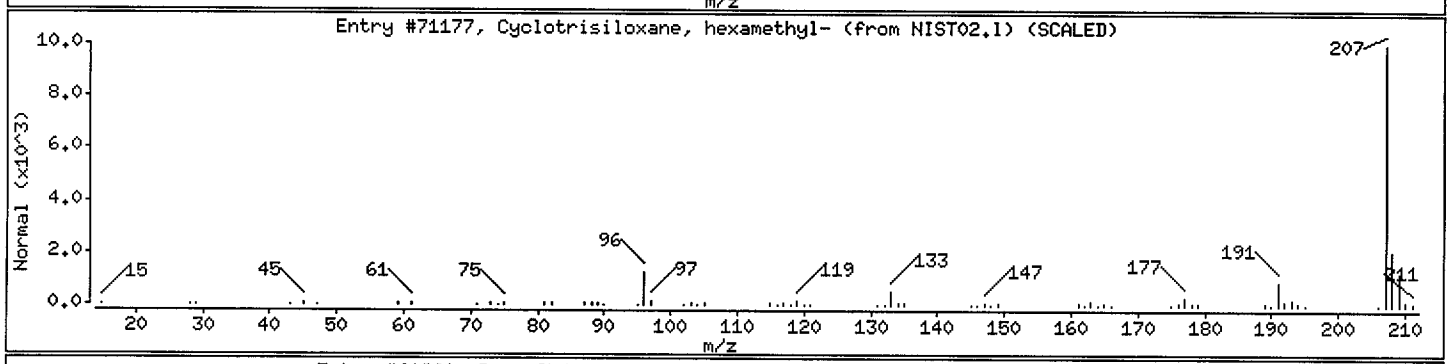
Sample Info: H2KHW1AA,1,0,,,

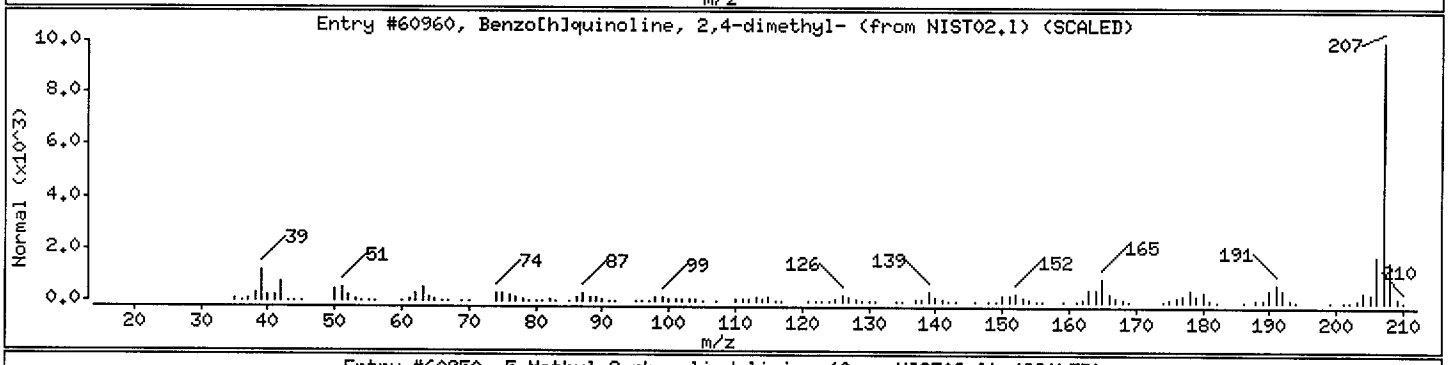
Operator: 22980

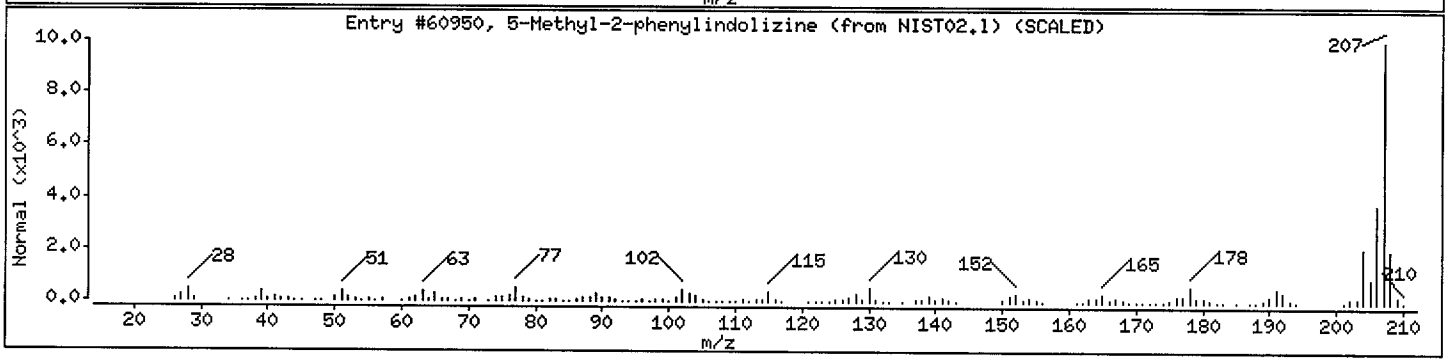
Column phase: J+W 624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST02.1	71177	91	C6H18O3Si3	222
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.1	60960	38	C15H13N	207
5-Methyl-2-phenylindolizine	36944-99-7	NIST02.1	60950	38	C15H13N	207









STL Knoxville - ACS

Client Sample ID: AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #...: H6D030169-043 **Work Order #...:** H2KHX1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.18**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.063**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.046 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.015**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.047**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0029 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.076**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #...: H6D030169-043 **Work Order #...:** H2KHX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.076**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.034 J**	**0.10**	**ug**	**0.031**
Toluene	**0.0030 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(50 - 134)
1,2-Dichloroethane-d4	87	(50 - 134)
Toluene-d8	76	(57 - 127)
Bromofluorobenzene	58	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #: H6D030169-043 **Work Order #:** H2KHX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d
Report Date: 07-Apr-2006 18:50

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2khx1aa.d
Lab Smp Id: H2KHX1AA Client Smp ID: AUDIT VOST #5
Inj Date : 07-APR-2006 18:34
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHX1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/19/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	1084499	10.0000	
* 2 Chlorobenzene-d5	119	7.584	7.582	(1.000)	238762	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.741	10.746	(1.000)	279393	10.0000	
$ 4 Dibromofluoromethane	113	4.268	4.273	(0.880)	161002	8.73177	0.21829
$ 5 1,2-Dichloroethane d4	65	4.554	4.553	(0.939)	124742	8.67909	0.21698
$ 6 Toluene d8	98	6.251	6.250	(0.824)	891181	7.62355	0.19059
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	192468	5.81007	0.14525
11 Chloromethane (spcc)	50	1.251	1.262	(0.258)	2733	0.05409	0.0013524
15 Chloroethane	64	1.336	1.669	(0.275)	3160	0.14595	~~0.0036486~~
21 Acetone	43	2.382	2.381	(0.491)	11110	7.23360	0.18084
23 Carbon Disulfide	76	2.492	2.497	(0.514)	49108	0.59417	0.014854
26 Methylene Chloride	84	2.747	2.746	(0.566)	50769	3.02790	0.075698
33 *Vinyl Acetate	86	3.252	3.421	(0.670)	1326	1.07548	~~0.026887~~
36 2-Butanone	43	3.873	3.871	(0.798)	4445	1.85553	0.046388
38 *THF	42	4.122	4.109	(0.850)	2006	1.36681	~~0.034170~~
39 Chloroform (ccc)	83	4.134	4.139	(0.852)	125590	3.04691	0.076173
41 Carbon Tetrachloride	117	4.432	4.437	(0.913)	72967	1.87429	0.046857
42 1,1-Dichloropropene	75	4.609	4.437	(0.950)	4819	0.11224	~~0.0028060~~
43 Benzene	78	4.609	4.607	(0.950)	275604	2.50929	0.062732
44 1,2-Dichloroethane	62	4.609	4.620	(0.950)	2967	0.16055	~~0.0040138~~

4/19/06

OK 0.034170 "J"

Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d
Report Date: 07-Apr-2006 18:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
52 4-Methyl-2-pentanone	43	6.251	6.147	(1.288)	7120	1.24092	~~0.031023~~
53 Toluene (ccc)	91	6.312	6.311	(0.832)	17062	0.12200	0.0030501
56 1,1,2-Trichloroethane	97	6.817	6.670	(0.899)	1443	0.13063	~~0.0032659~~
57 Tetrachloroethene	164	6.817	6.816	(0.899)	163162	5.42963	0.13574
62 Chlorobenzene (spcc)	112	7.608	7.607	(1.003)	8345	0.11624	0.0029060

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d
Report Date: 07-Apr-2006 18:50

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2khx1aa.d
Lab Smp Id: H2KHX1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: AUDIT VOST #5
Level: LOW
Sample Type: AIR

Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1084499	-5.63
2 Chlorobenzene-d5	214194	107097	428388	238762	11.47
3 1,4 Dichlorobenze	242601	121300	485202	279393	15.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.03
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.02
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.05

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.

Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d
Report Date: 07-Apr-2006 18:50

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2KHX1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: AUDIT VOST #5
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

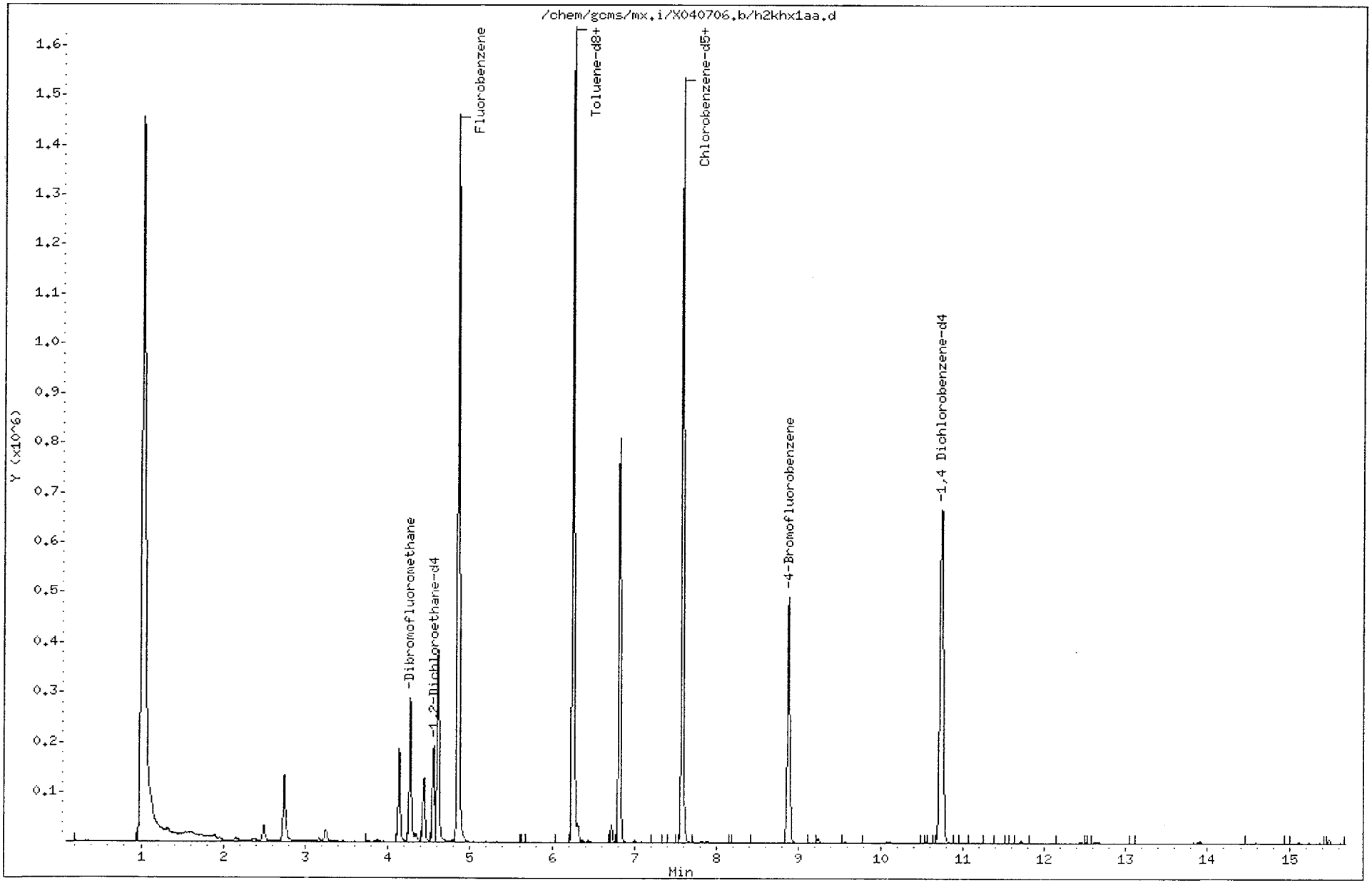
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.21829	87.32	50-150
$ 5 1,2-Dichloroethane	0.25000	0.21698	86.79	50-150
$ 6 Toluene-d8	0.25000	0.19059	76.24	50-150
$ 7 4-Bromofluorobenze	0.25000	0.14525	58.10	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d
Date : 07-APR-2006 18:34
Client ID: AUDIT VOST #5
Sample Info: H2KHX1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

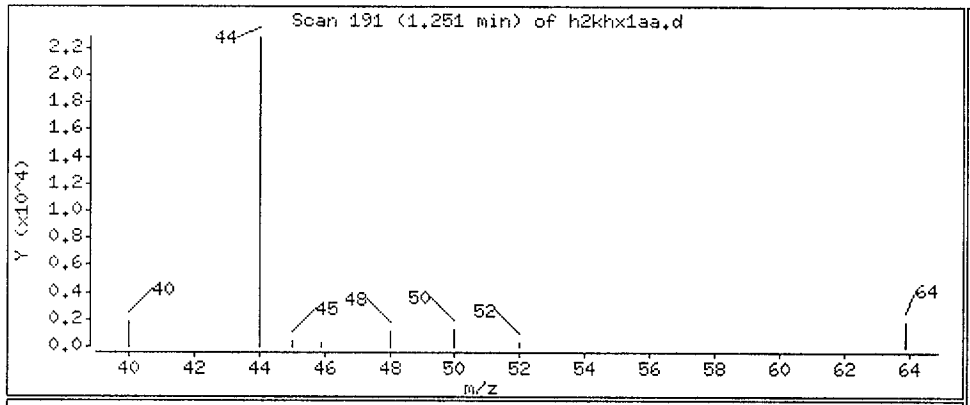
Operator: 22980

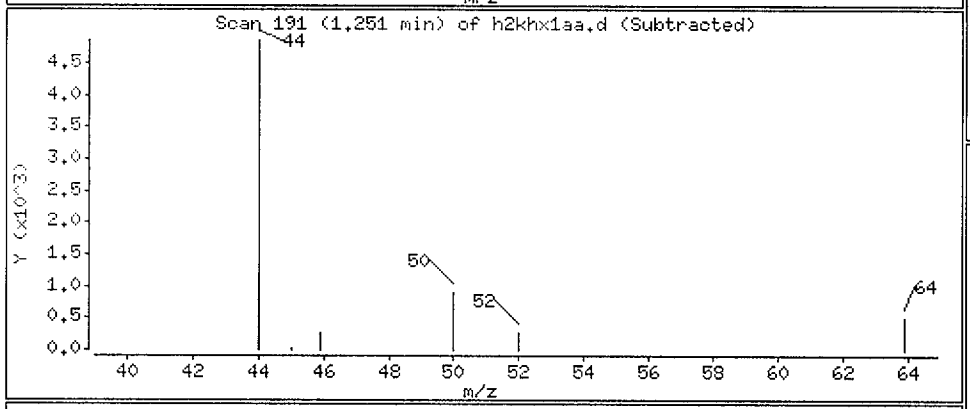
Column phase: J+W 624

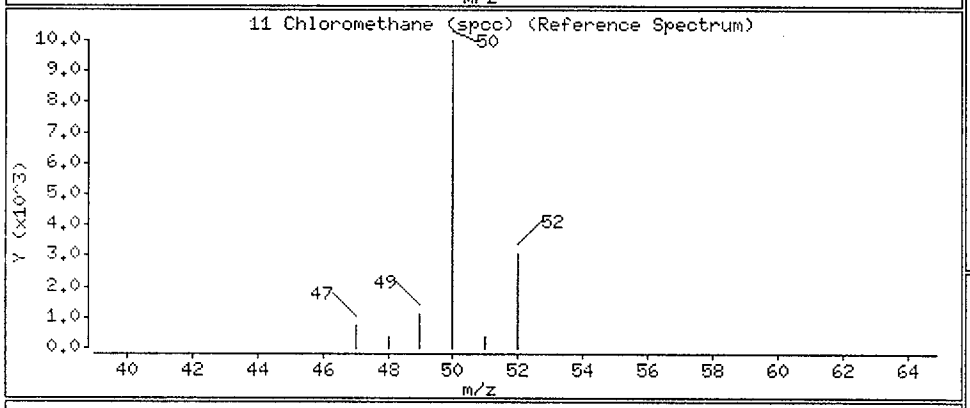
Column diameter: 0.18

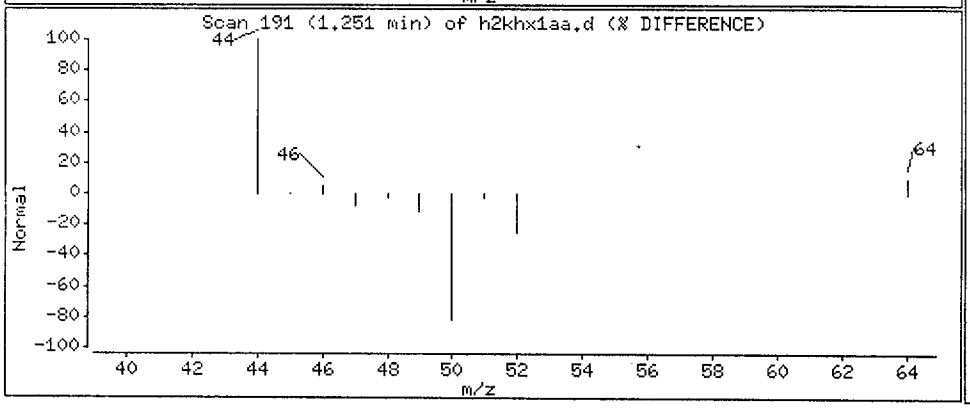
11 Chloromethane (spec)

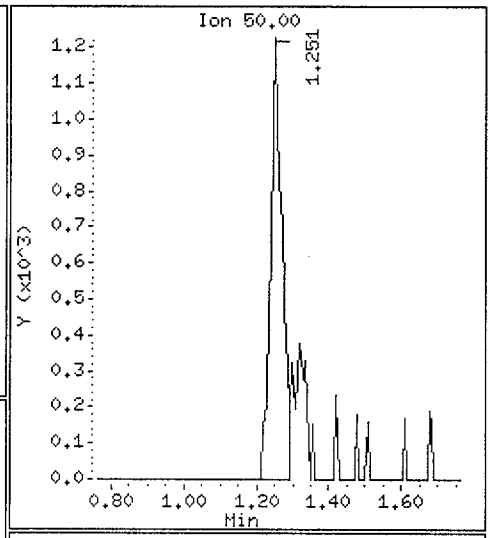
Concentration: 0.0013524 ug

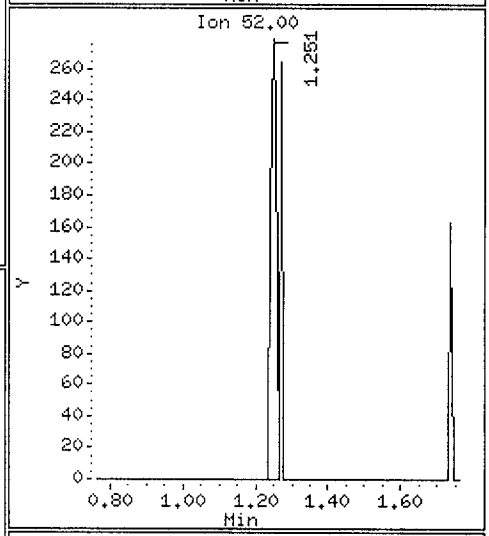


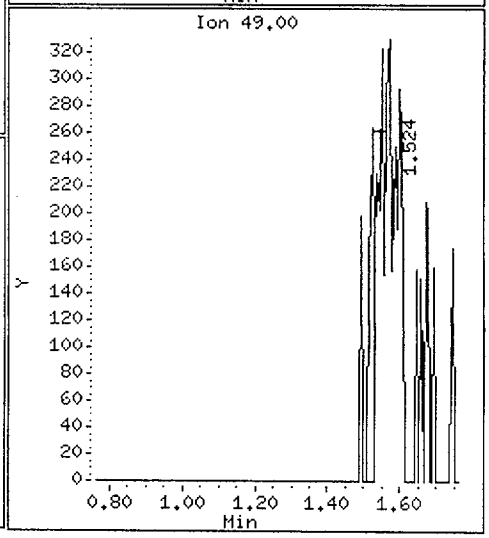












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

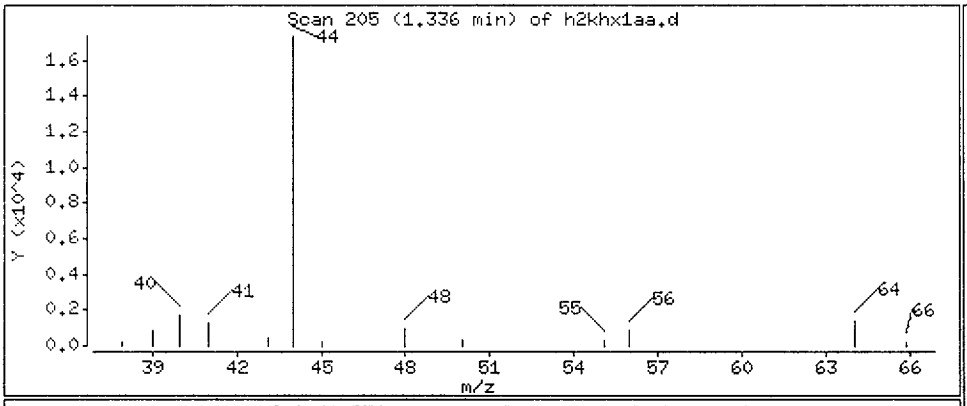
Operator: 22980

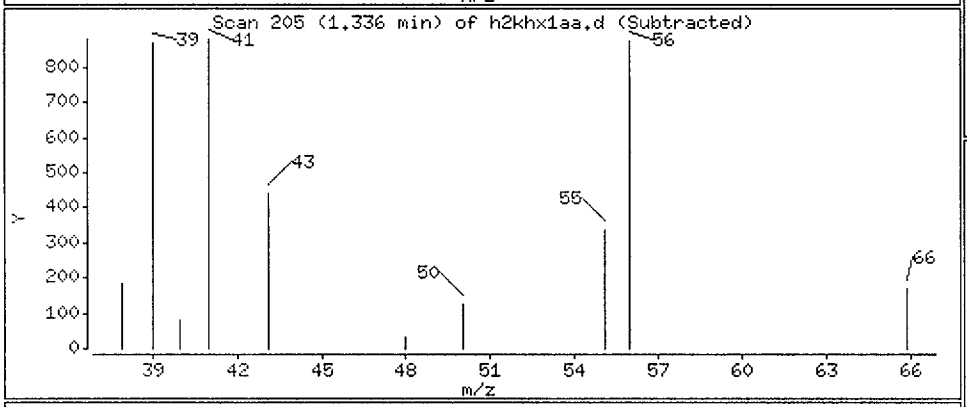
Column phase: J+W 624

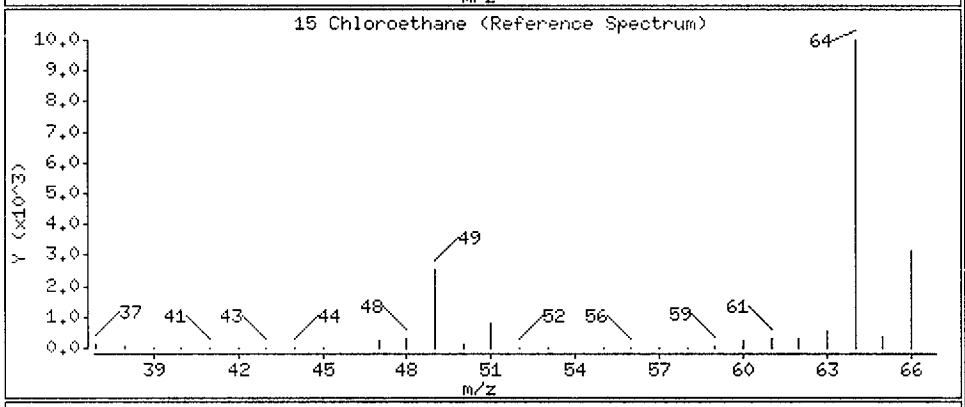
Column diameter: 0.18

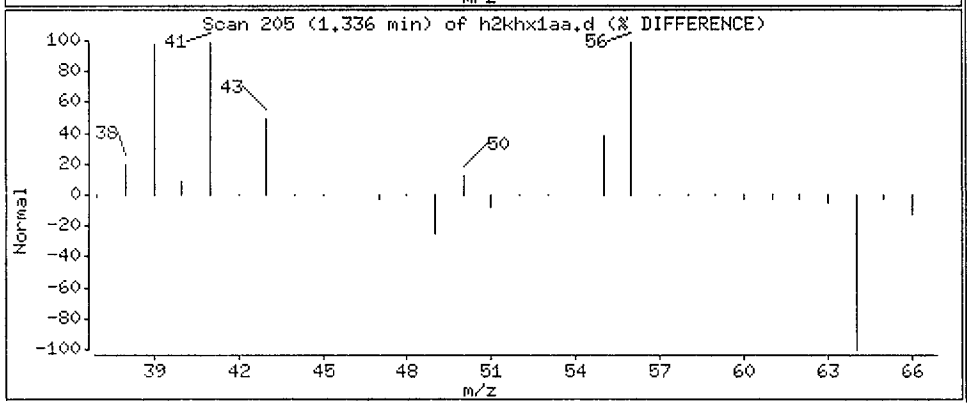
15 Chloroethane

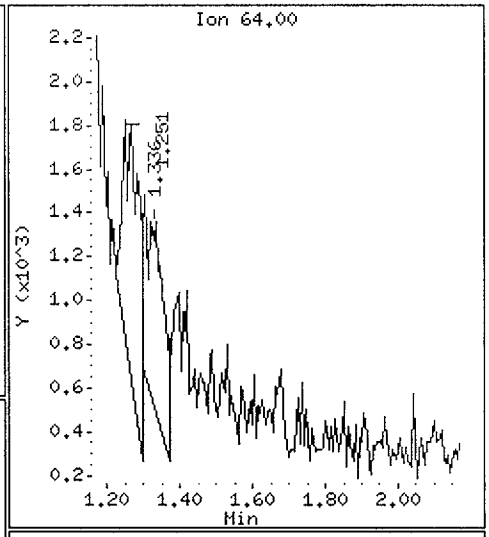
Concentration: 0.0036486 ug

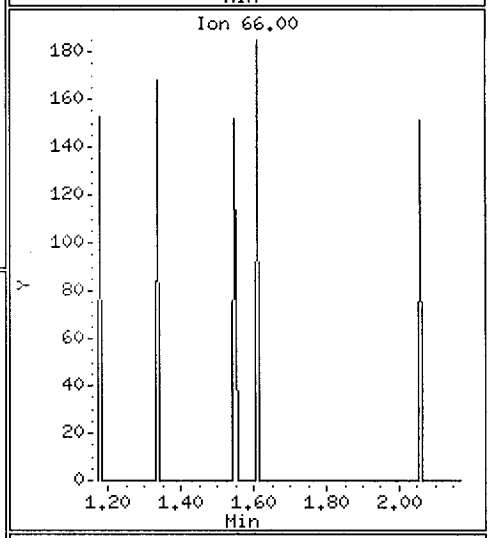


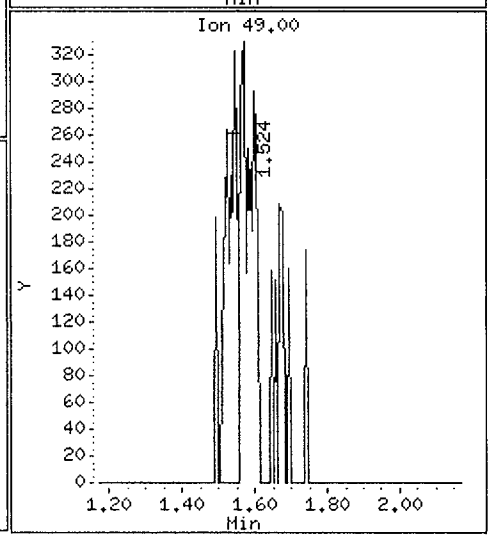












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

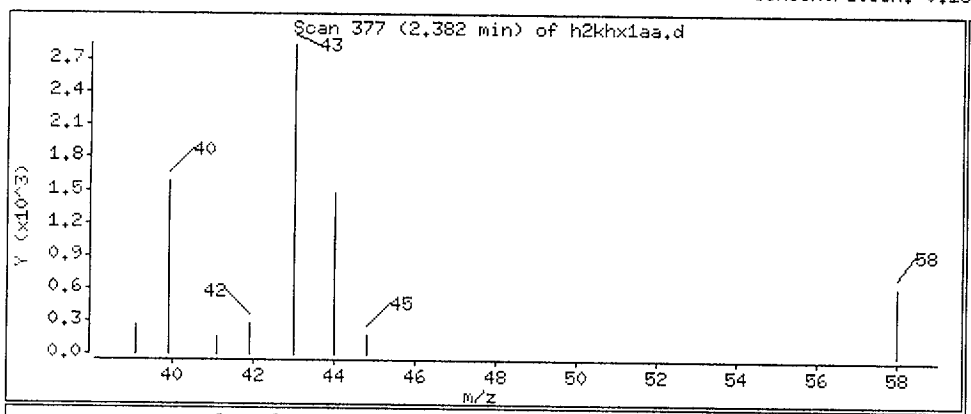
Operator: 22980

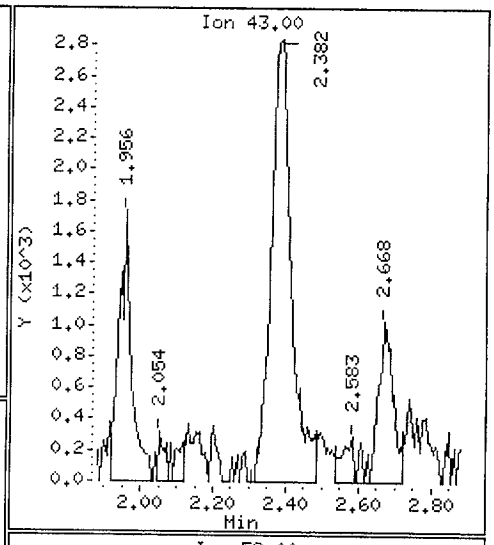
Column phase: J+W 624

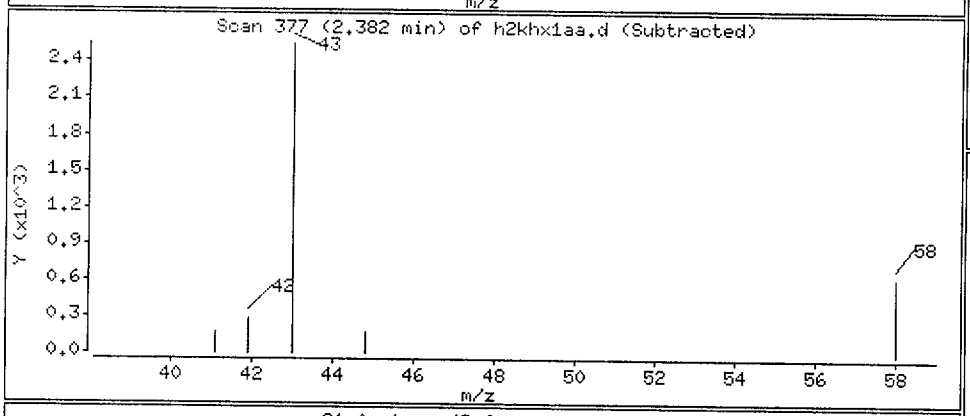
Column diameter: 0.18

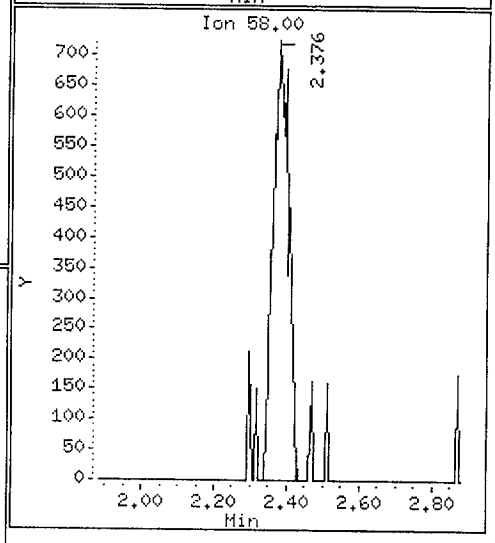
21 Acetone

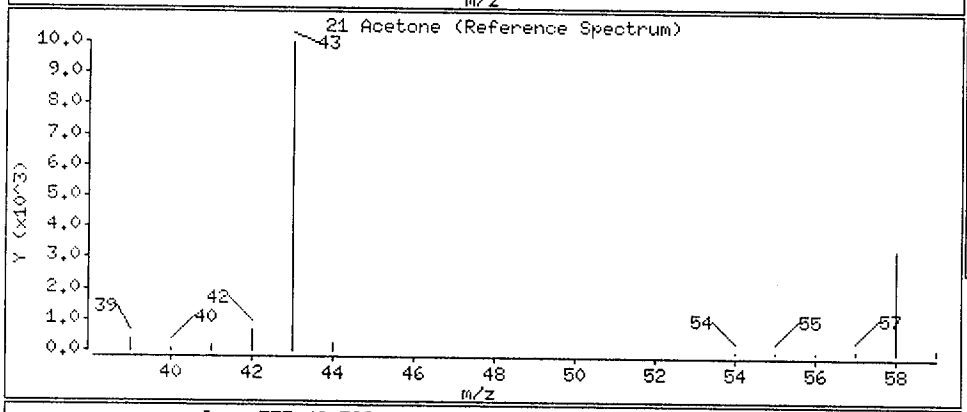
Concentration: 0.18084 ug

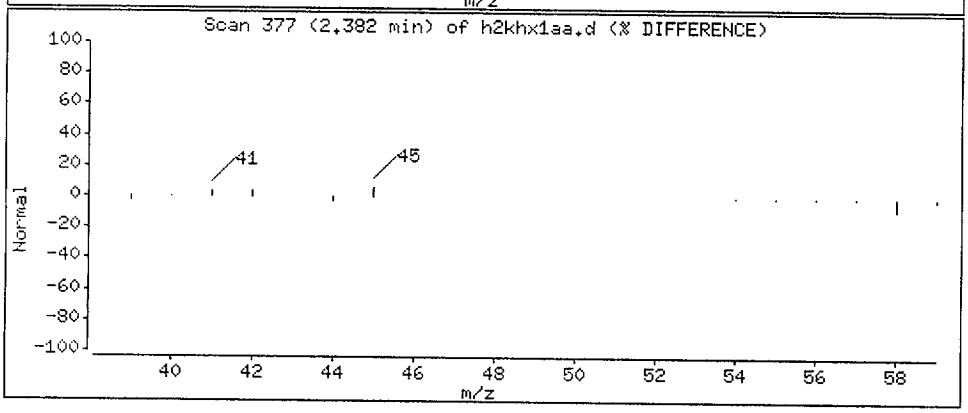












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

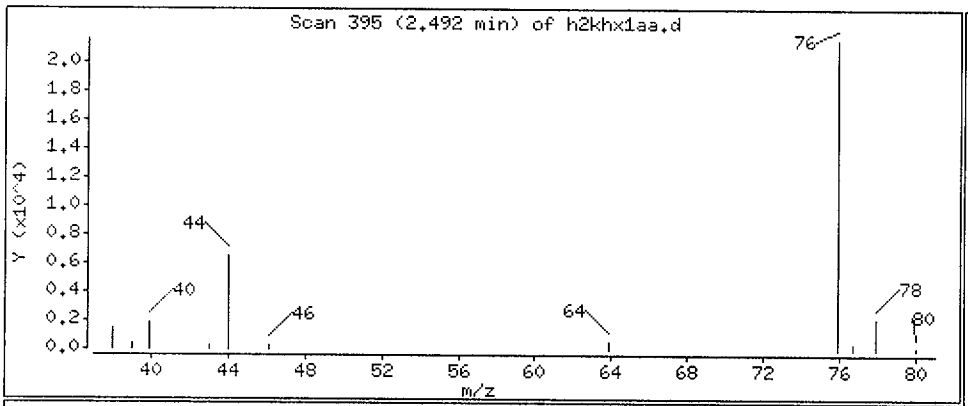
Operator: 22980

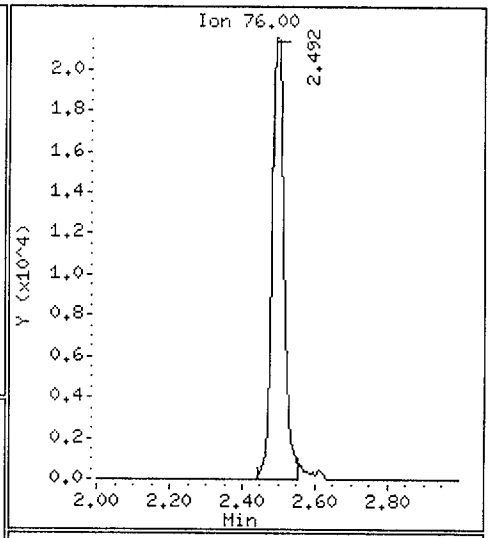
Column phase: J+W 624

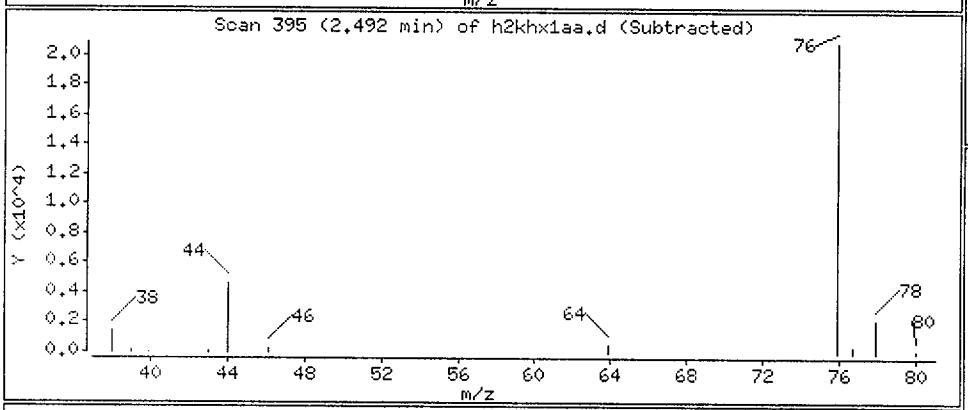
Column diameter: 0.18

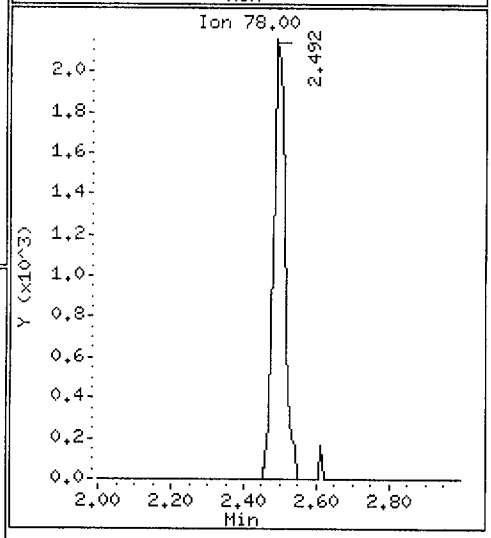
23 Carbon Disulfide

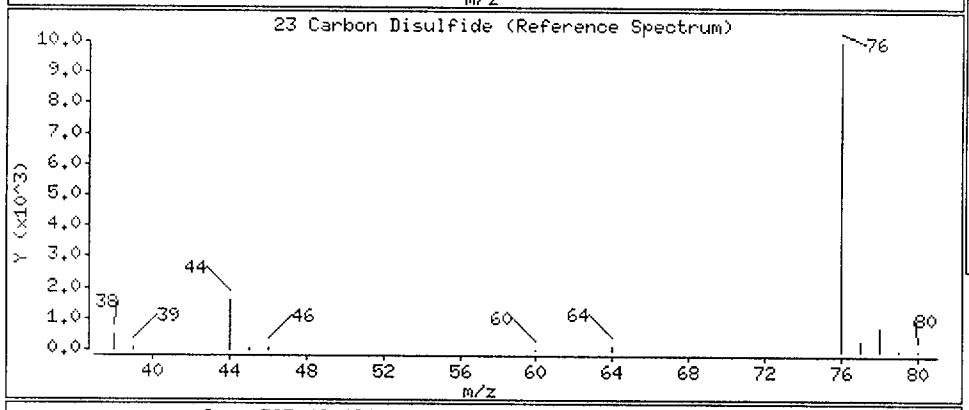
Concentration: 0.014854 ug

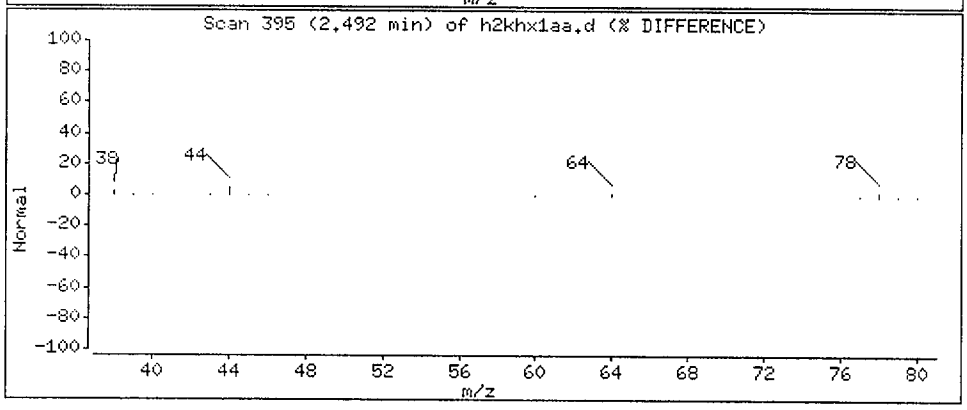












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

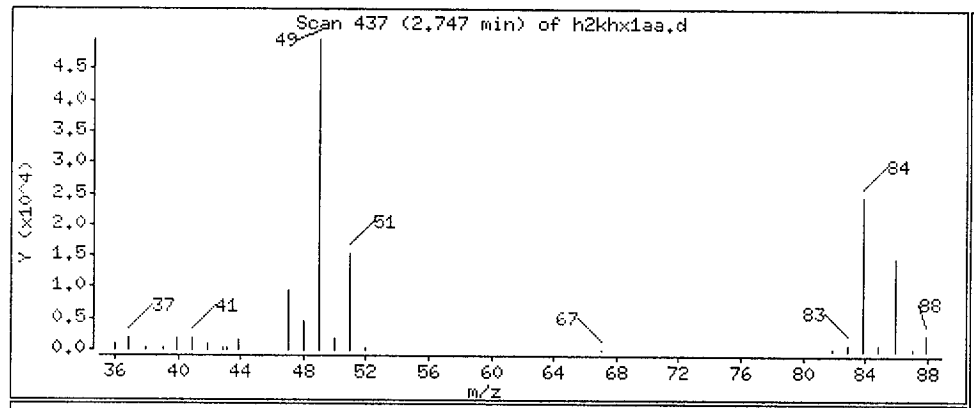
Operator: 22980

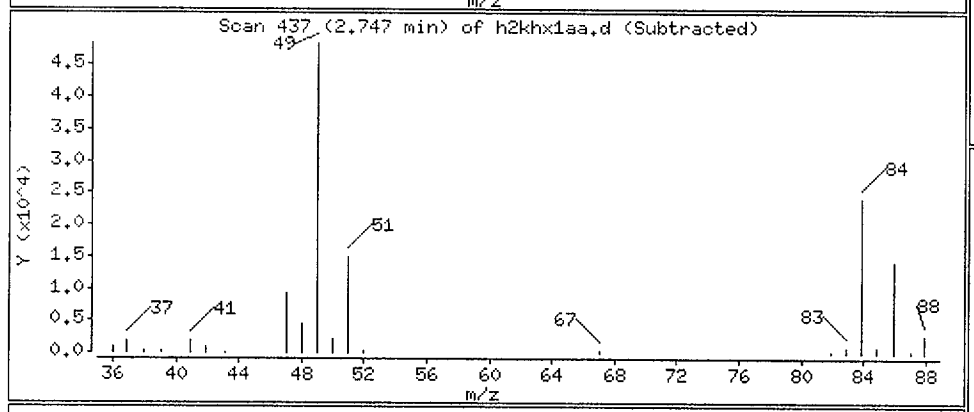
Column phase: J+W 624

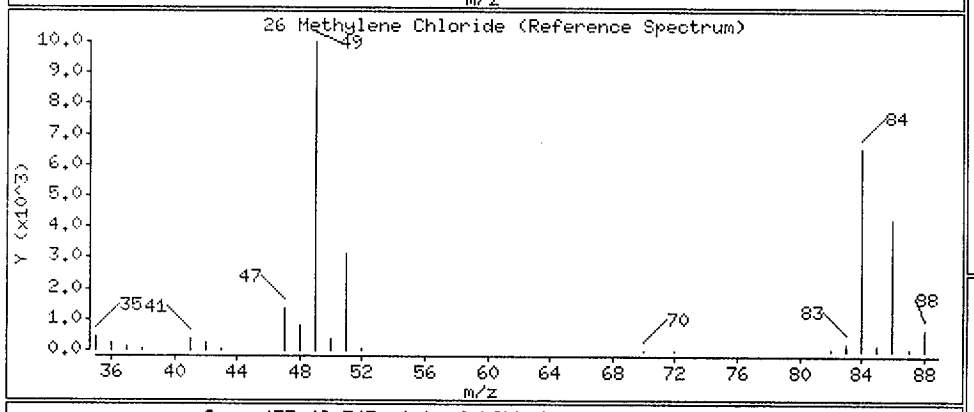
Column diameter: 0.18

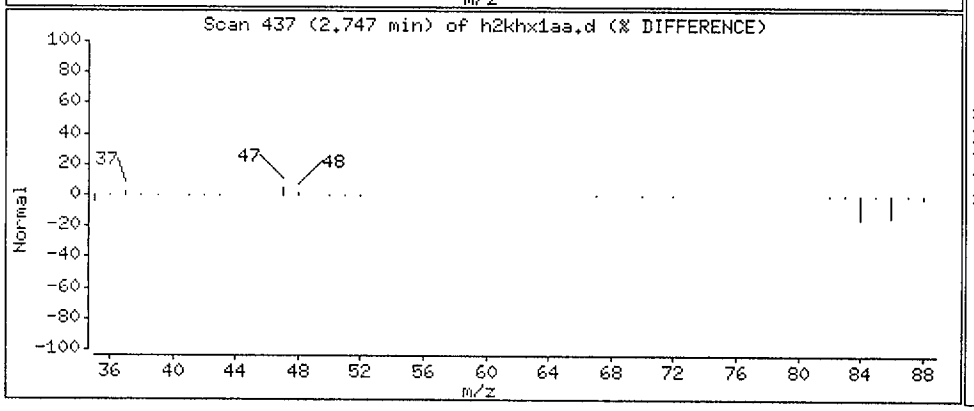
26 Methylene Chloride

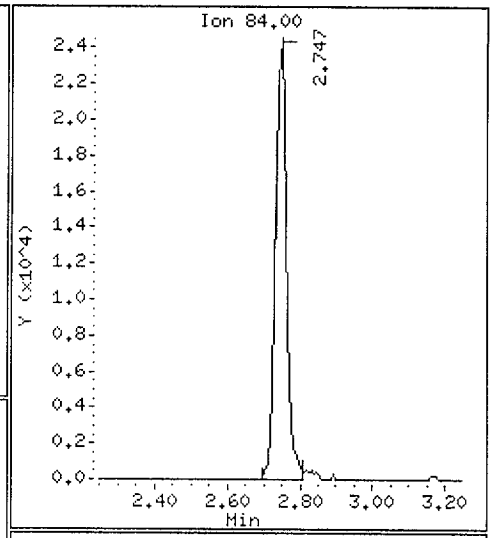
Concentration: 0.075698 ug

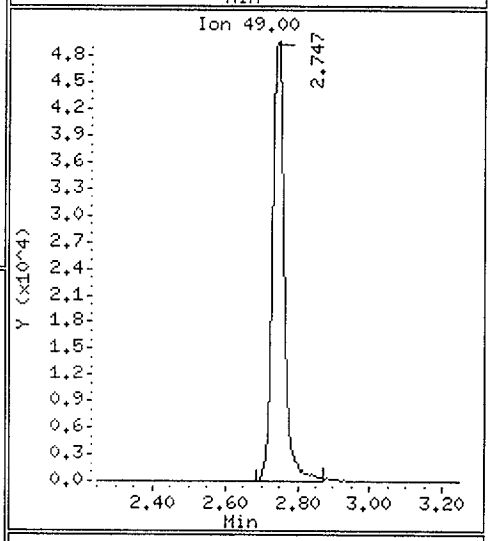


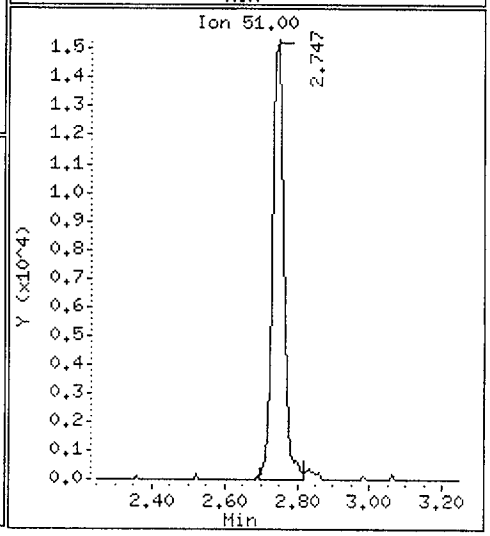












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

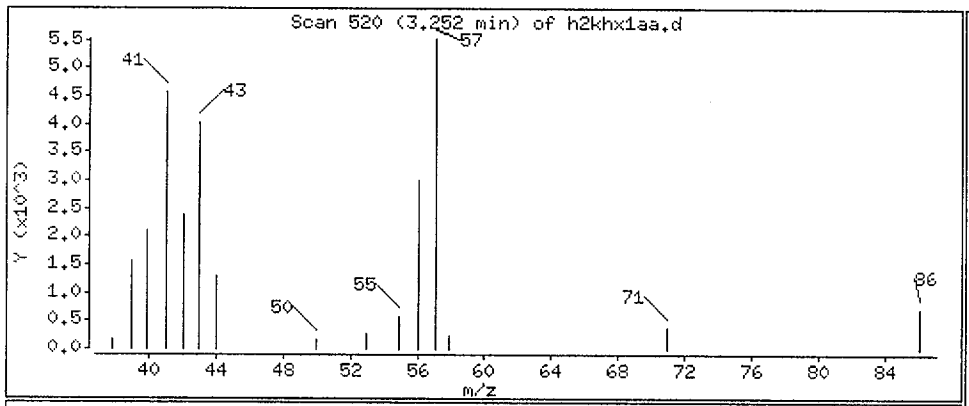
Operator: 22980

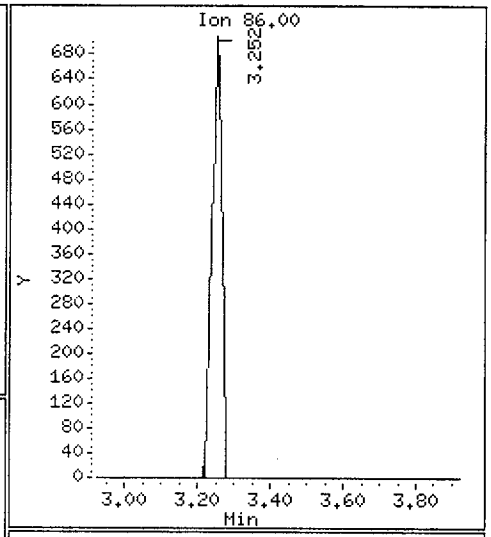
Column phase: J+W 624

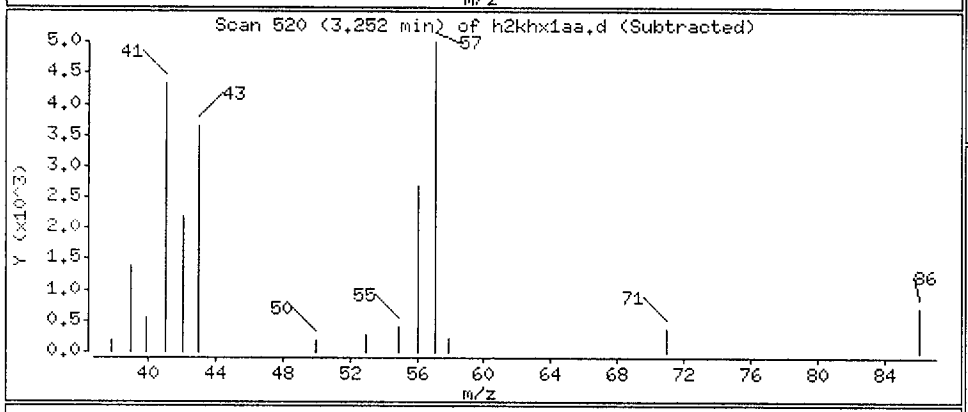
Column diameter: 0.18

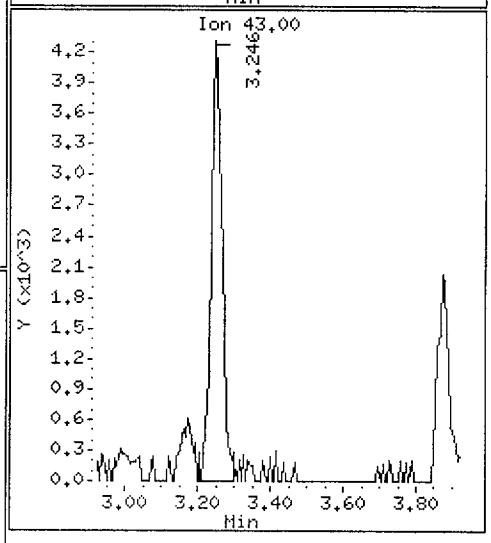
33 *Vinyl Acetate

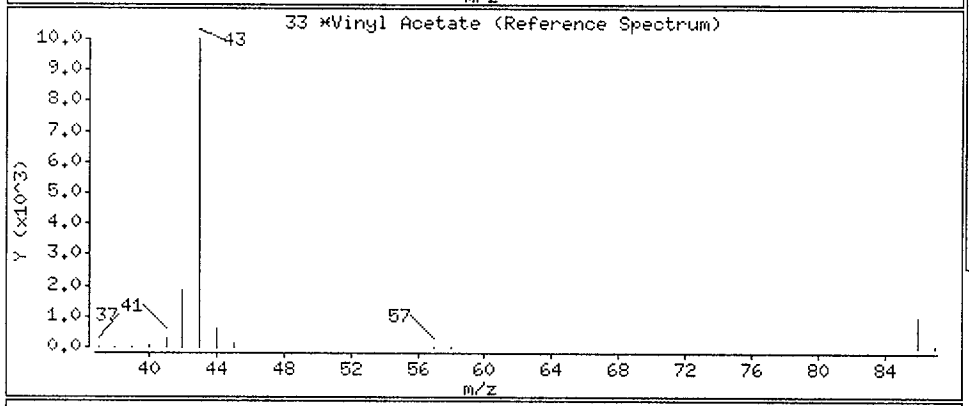
Concentration: 0.026887 ug

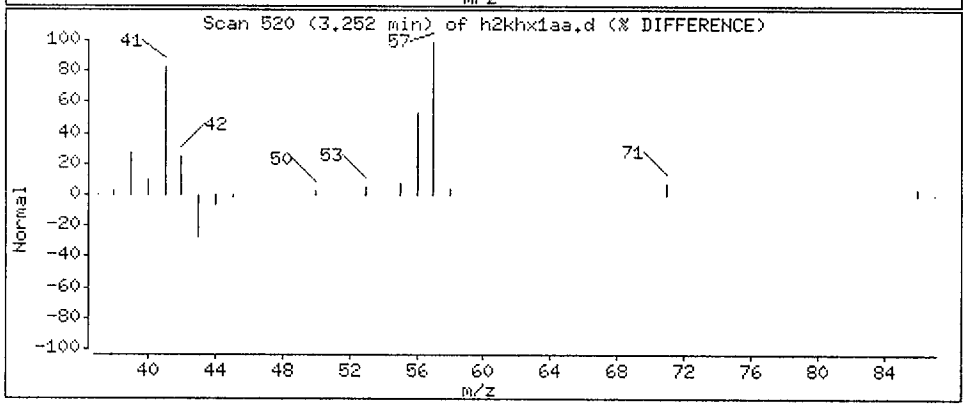












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

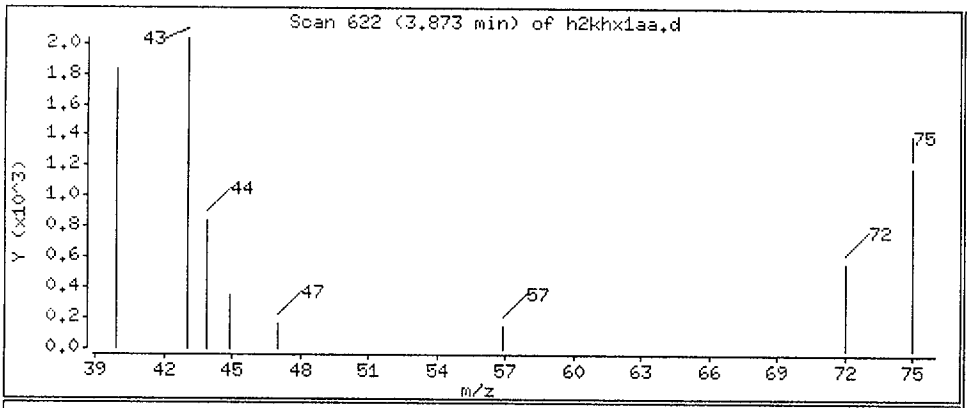
Operator: 22980

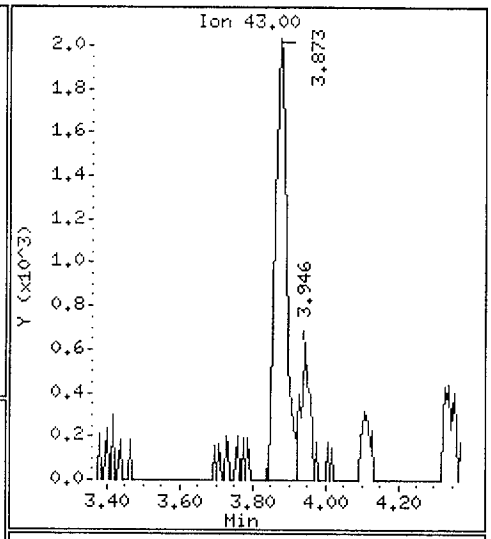
Column phase: J+W 624

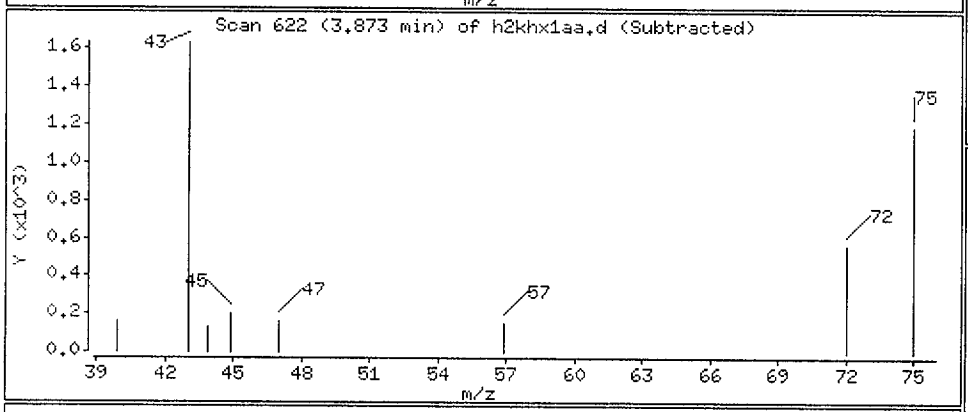
Column diameter: 0.18

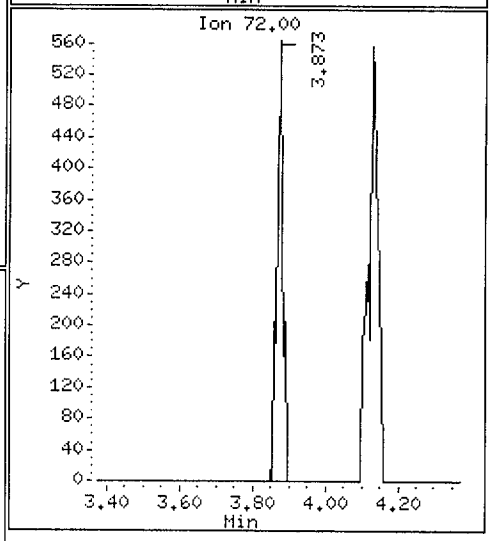
36 2-Butanone

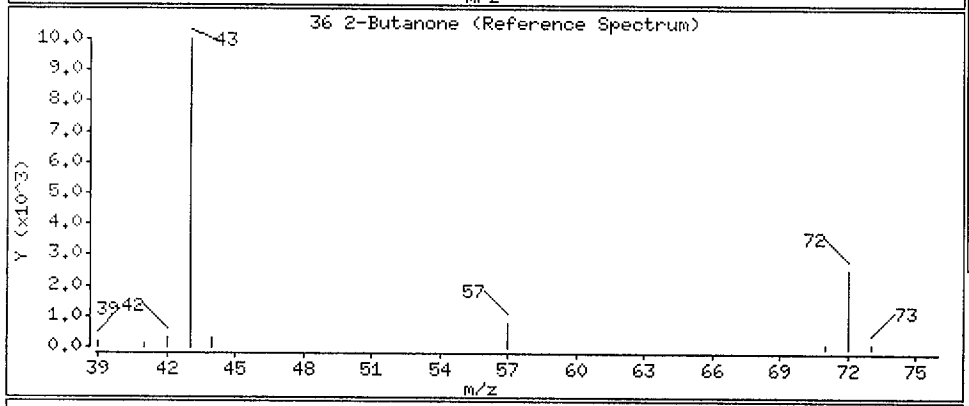
Concentration: 0.046388 ug

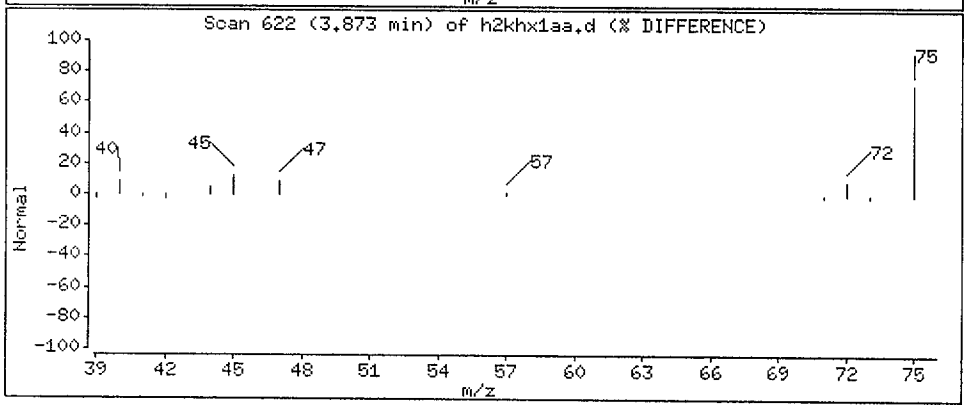












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

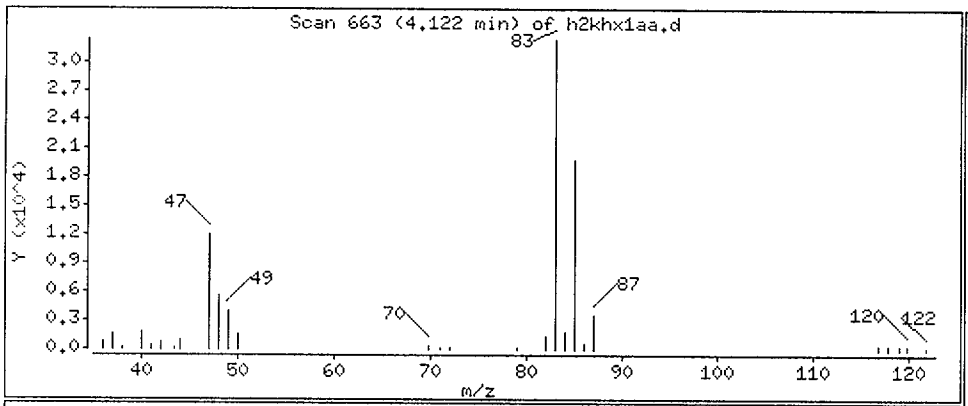
Operator: 22980

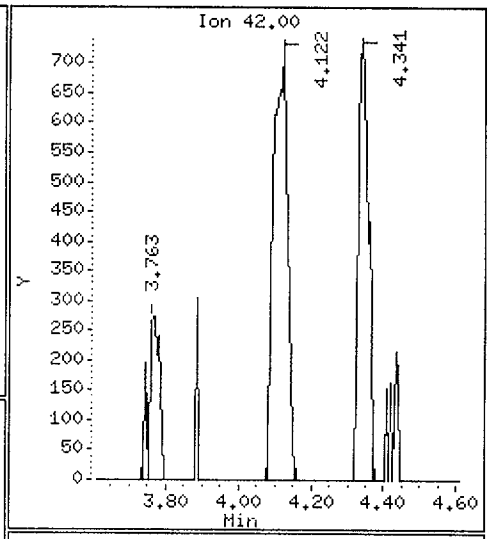
Column phase: J+W 624

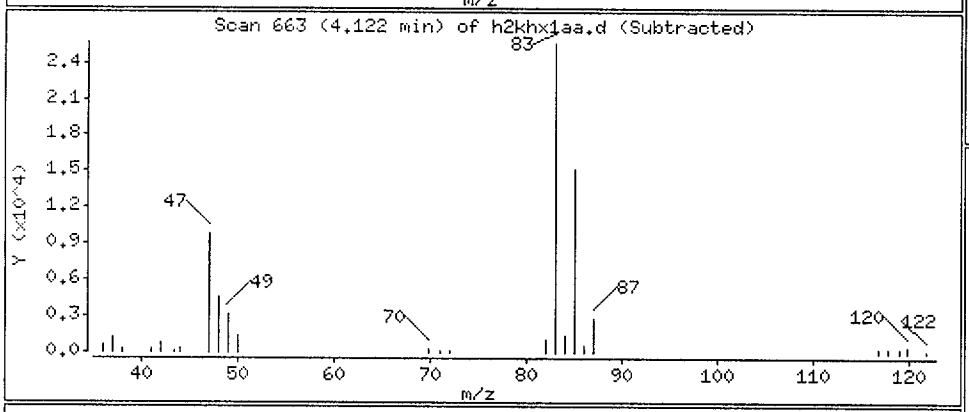
Column diameter: 0.18

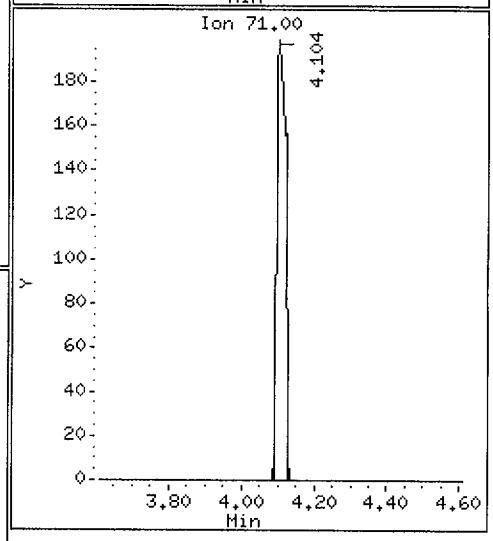
38 *THF

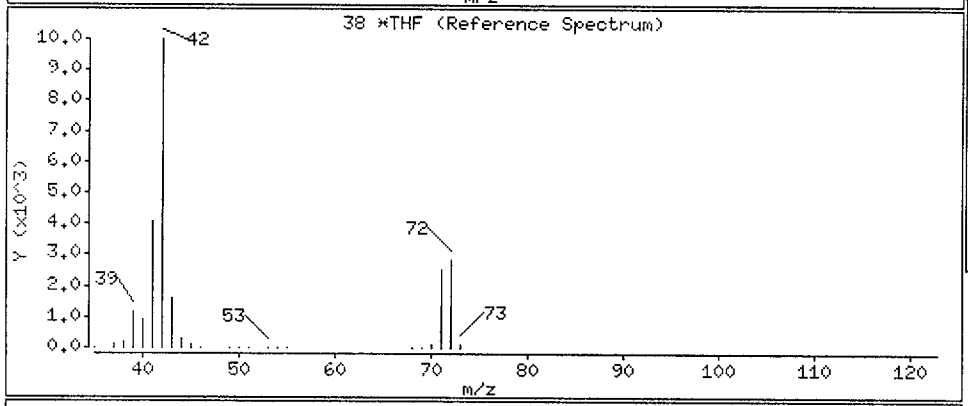
Concentration: 0.034170 ug

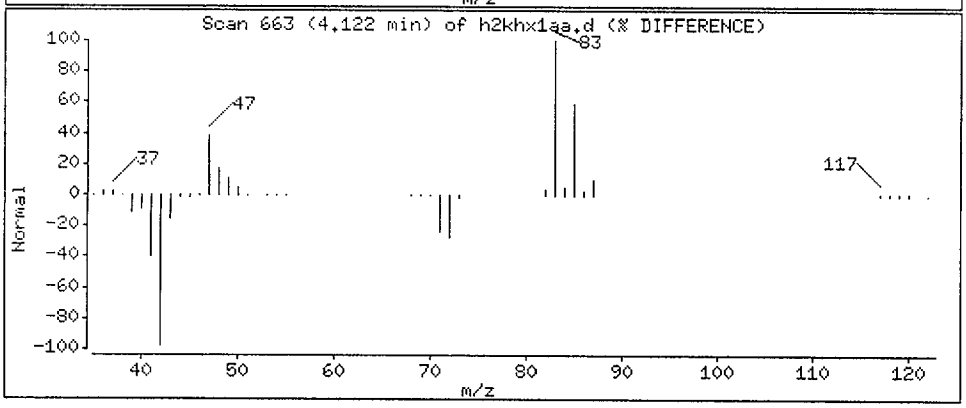












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

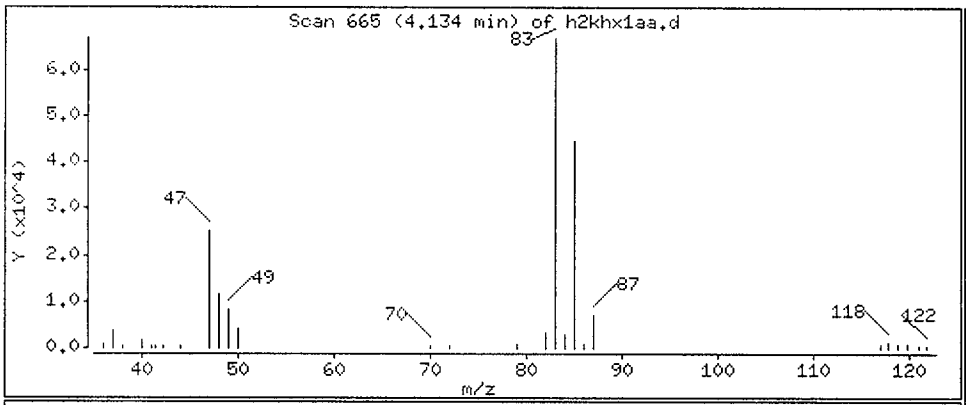
Operator: 22980

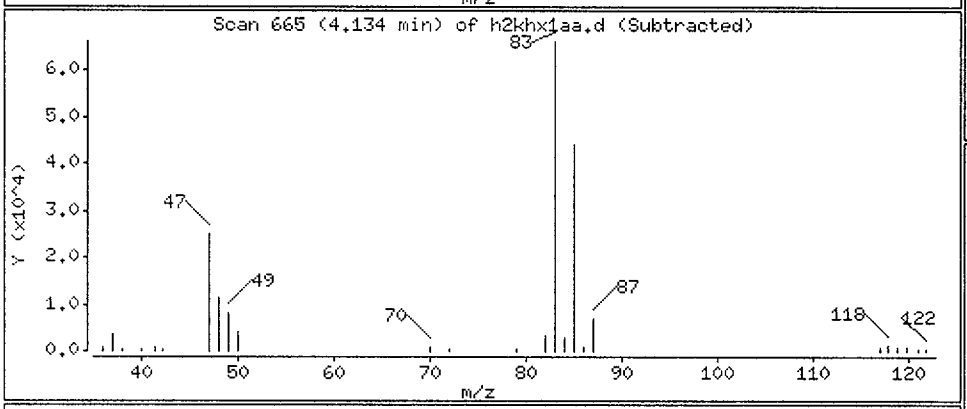
Column phase: J+W 624

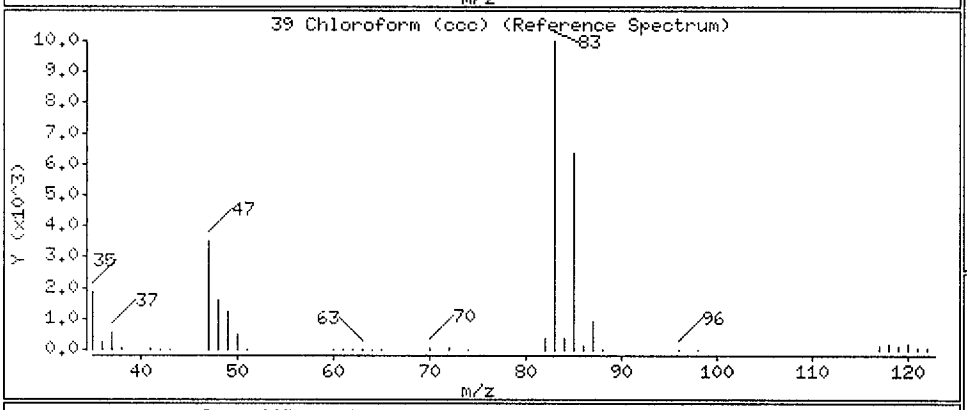
Column diameter: 0.18

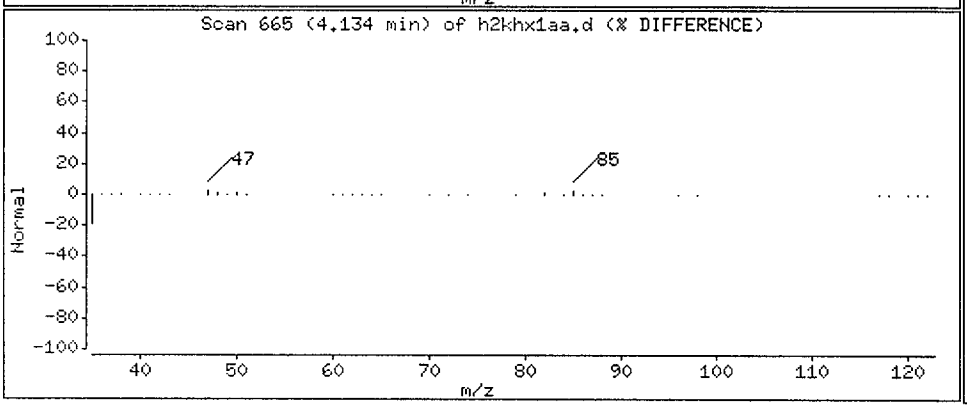
39 Chloroform (ccc)

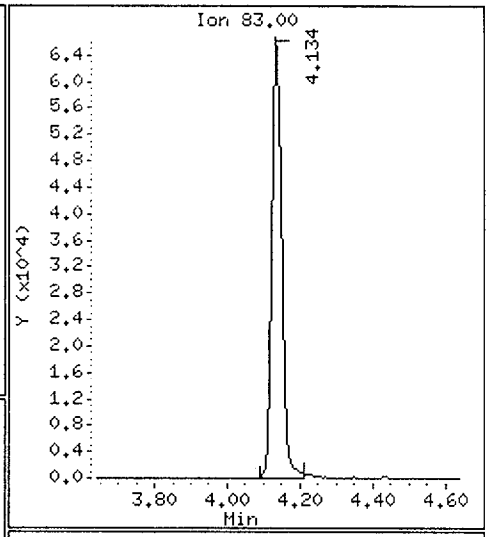
Concentration: 0.076173 ug

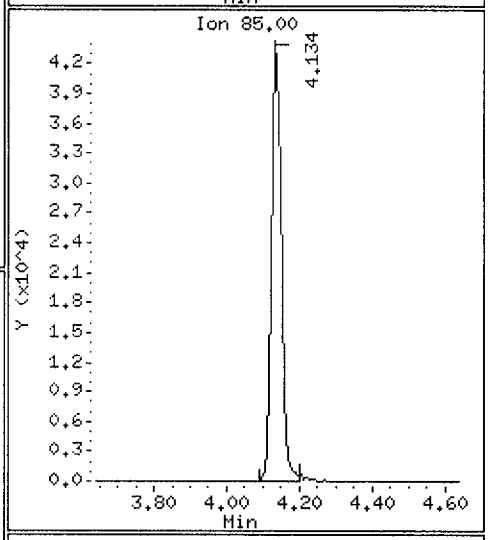


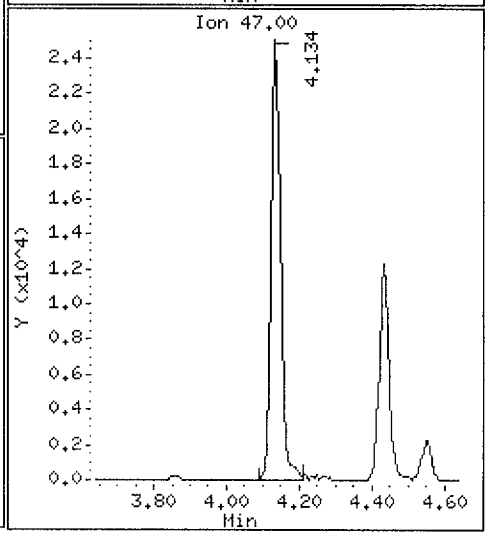












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

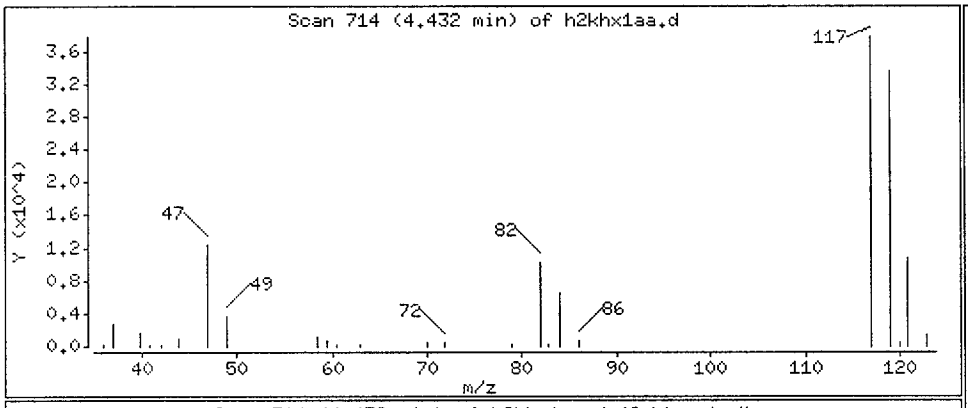
Operator: 22980

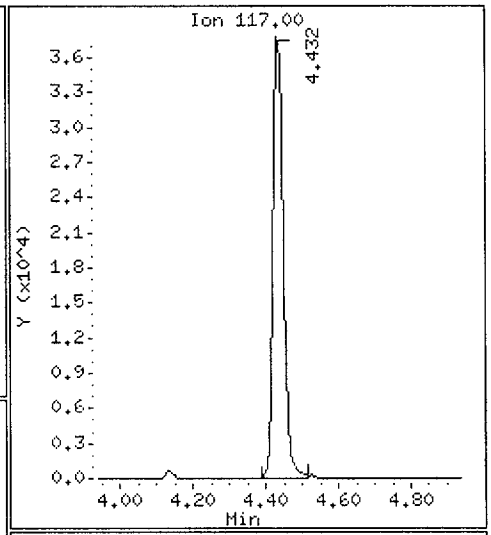
Column phase: J+W 624

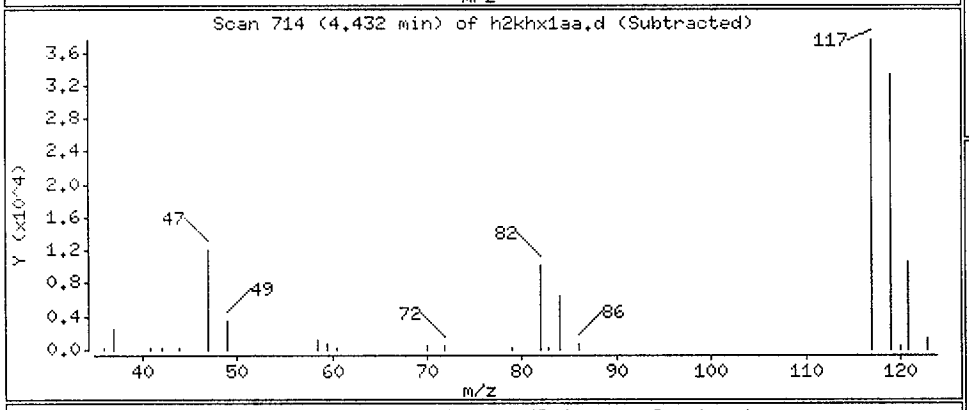
Column diameter: 0.18

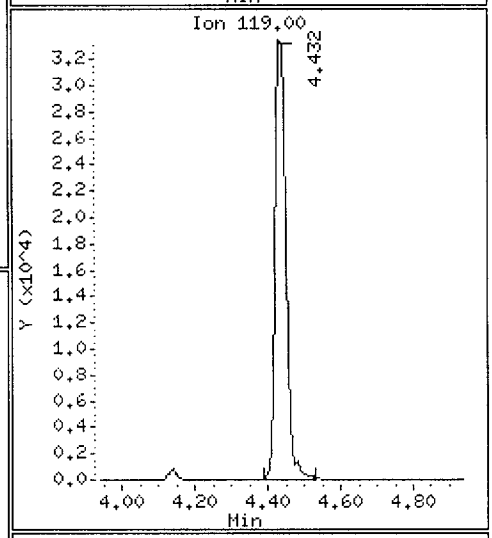
41 Carbon Tetrachloride

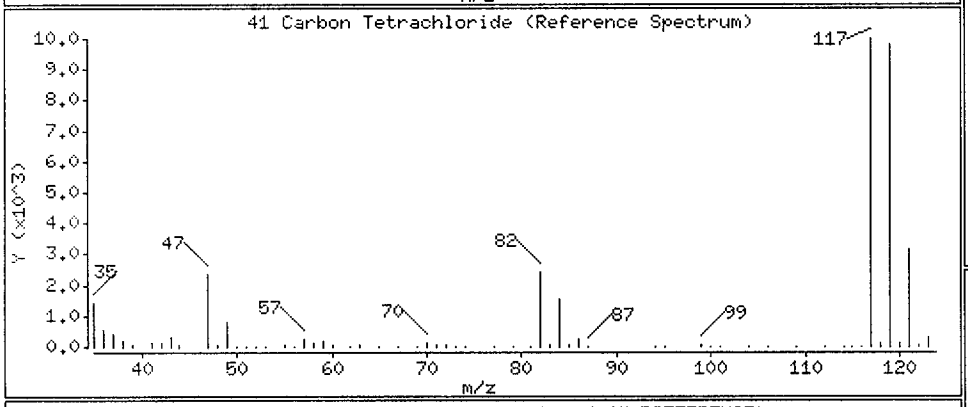
Concentration: 0.046857 ug

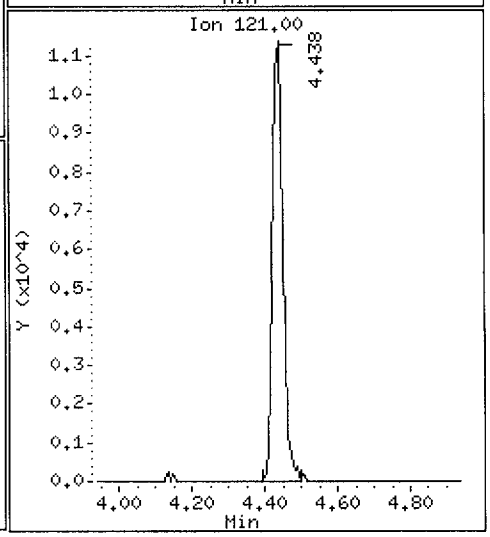


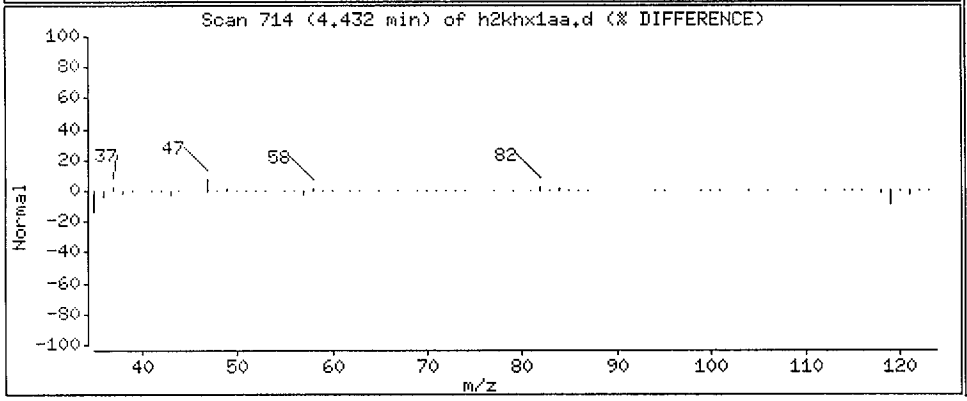












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

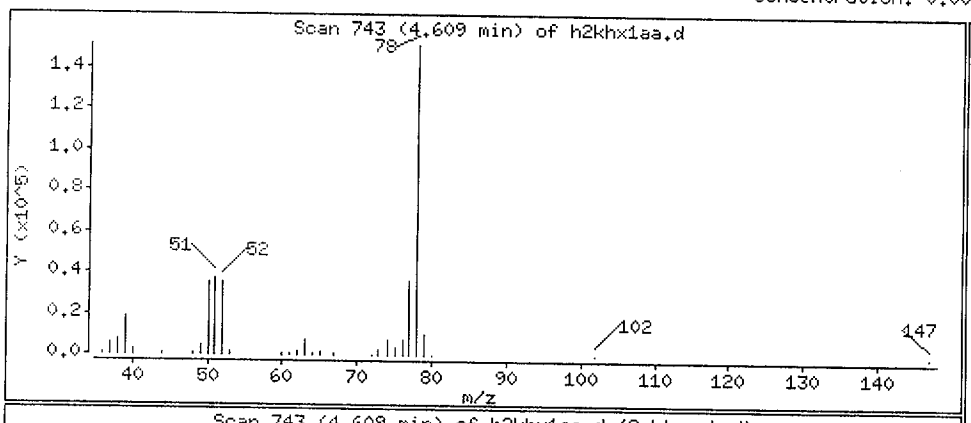
Operator: 22980

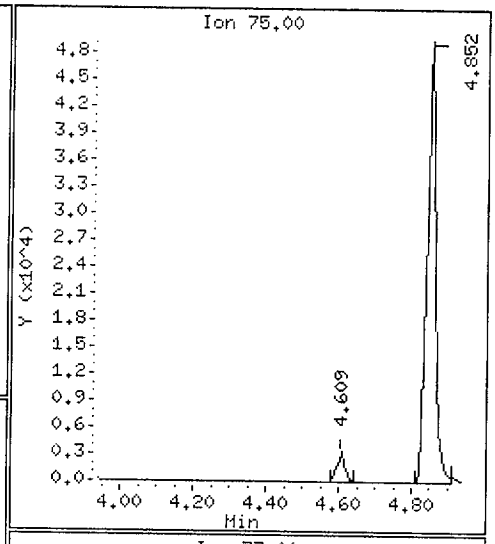
Column phase: J+W 624

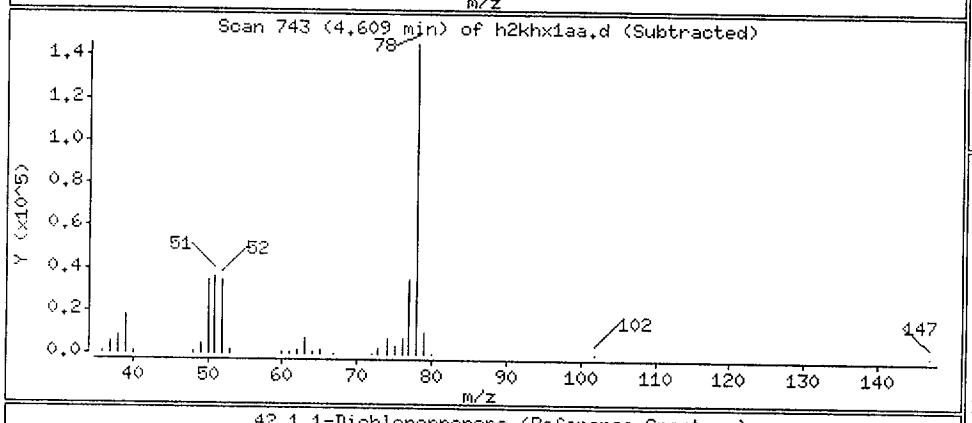
Column diameter: 0.18

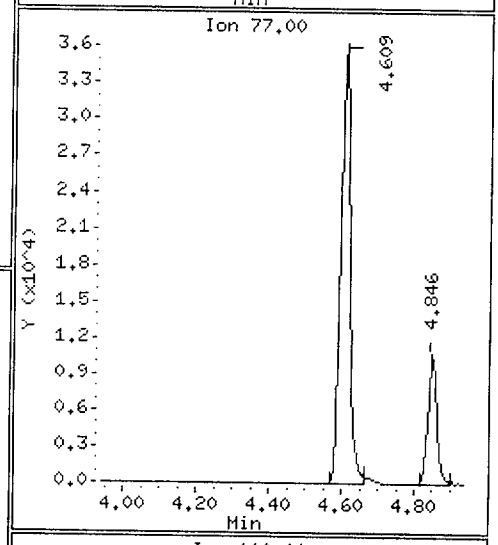
42 1,1-Dichloropropene

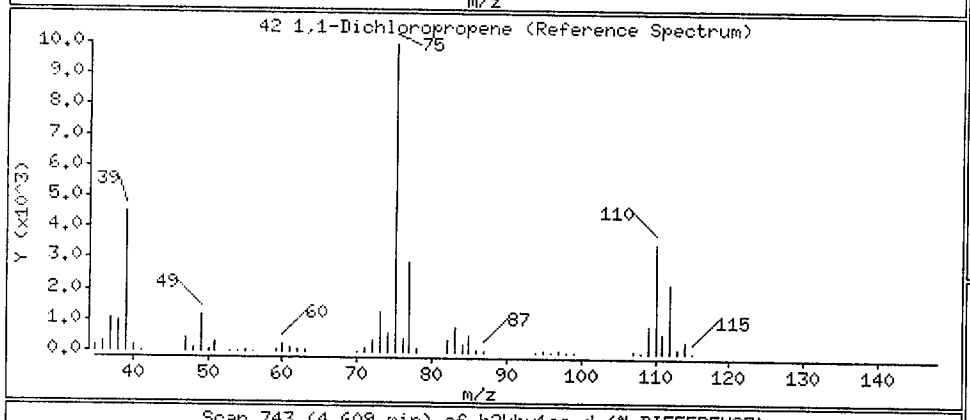
Concentration: 0.0028060 ug

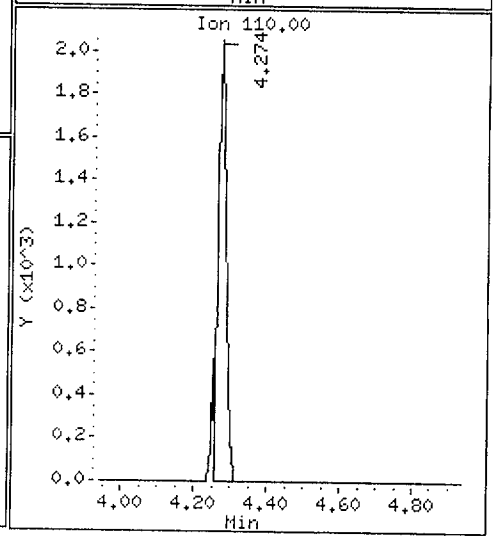


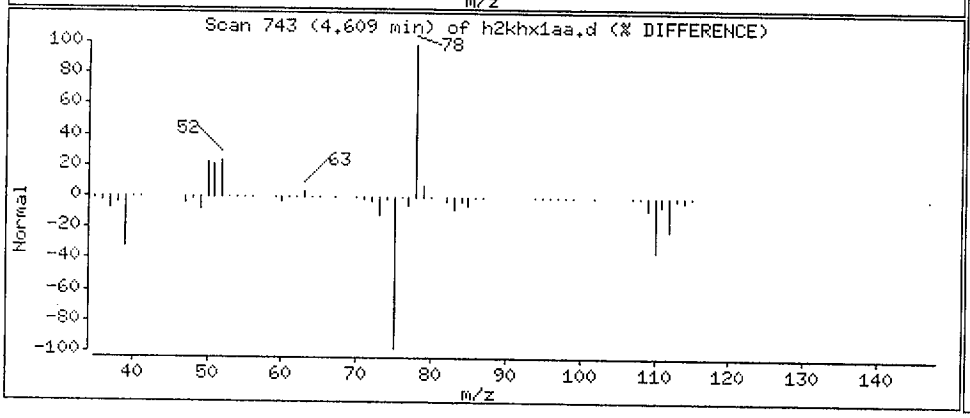












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

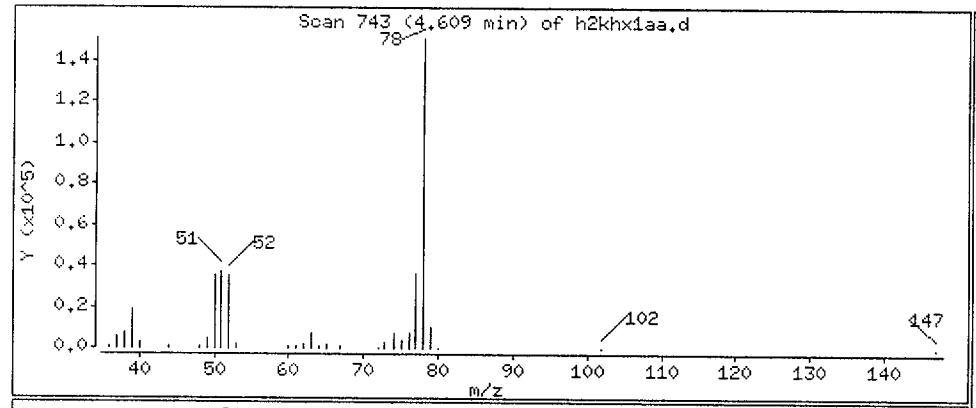
Operator: 22980

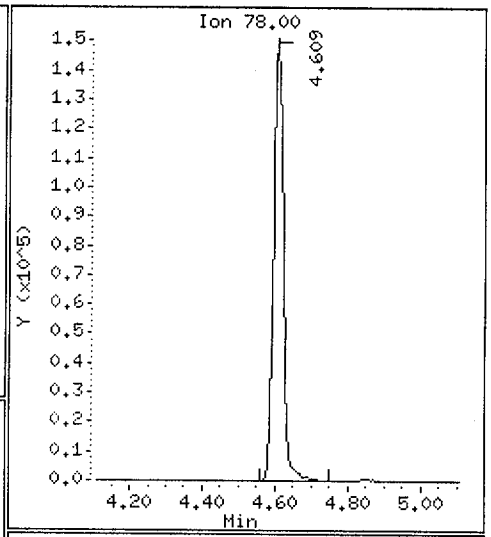
Column phase: J+W 624

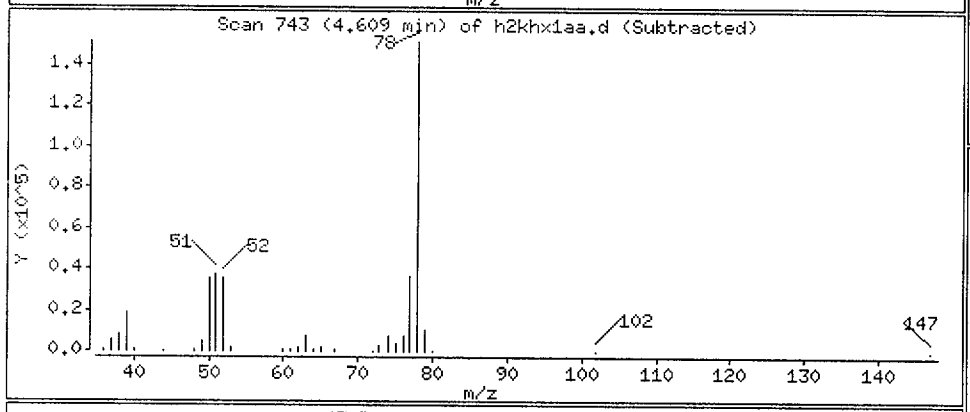
Column diameter: 0.18

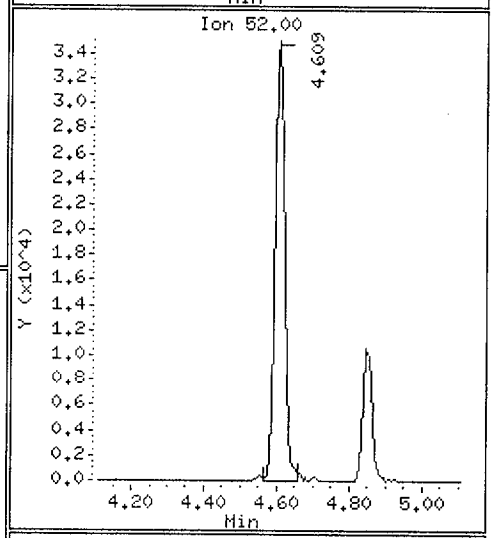
43 Benzene

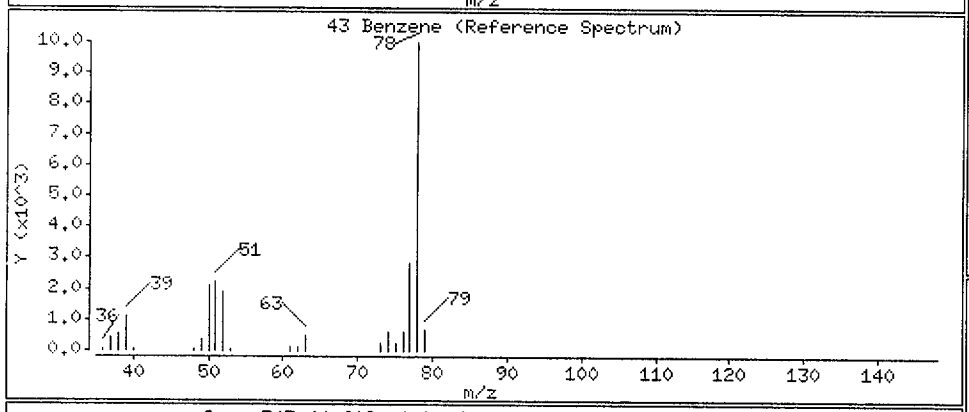
Concentration: 0.062732 ug

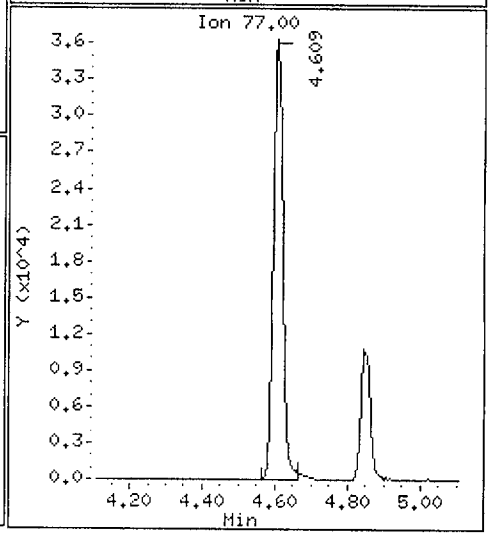


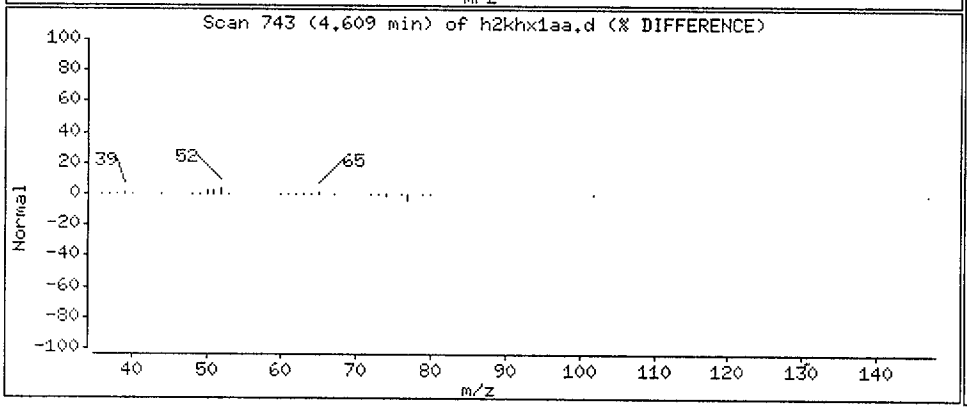












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

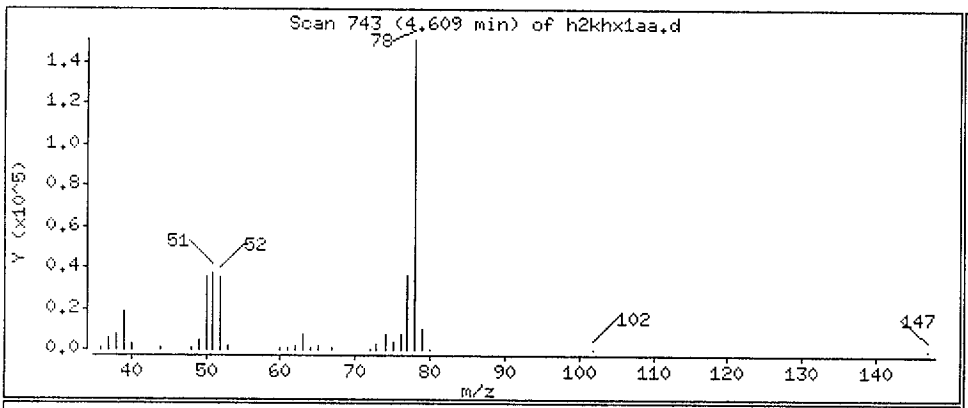
Operator: 22980

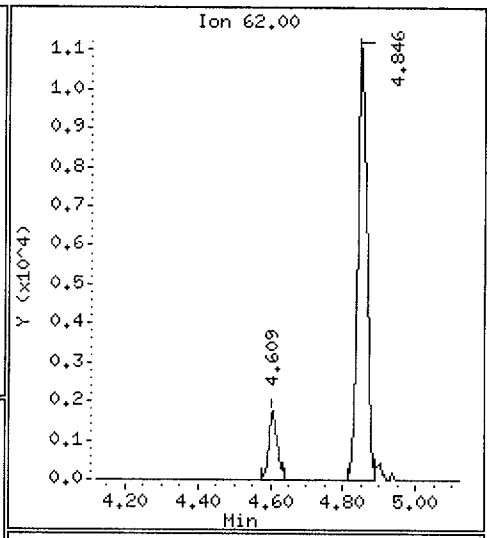
Column phase: J+W 624

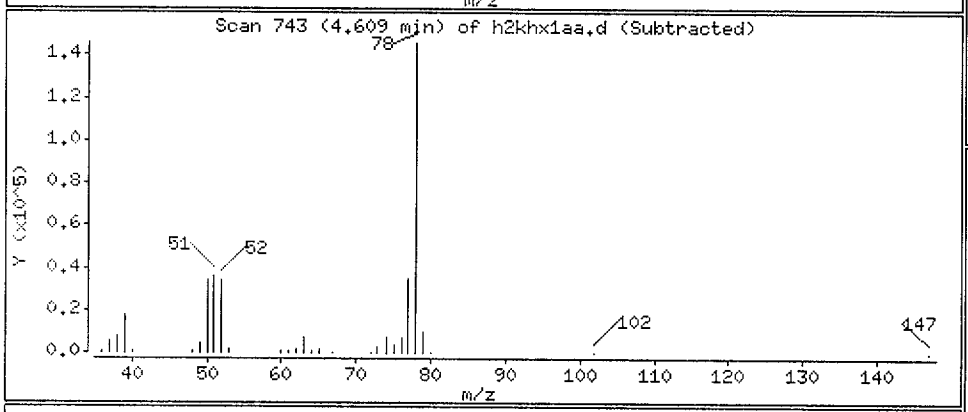
Column diameter: 0.18

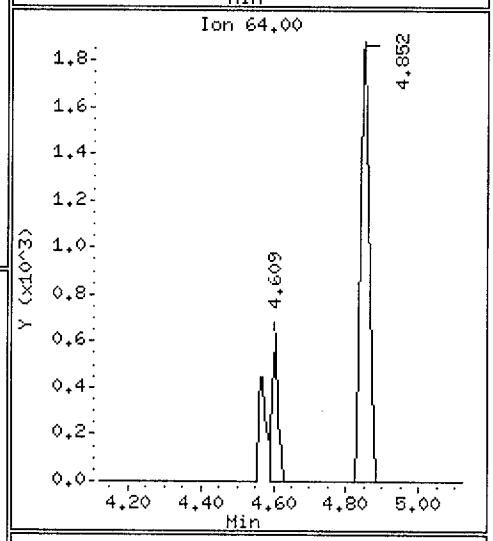
44 1,2-Dichloroethane

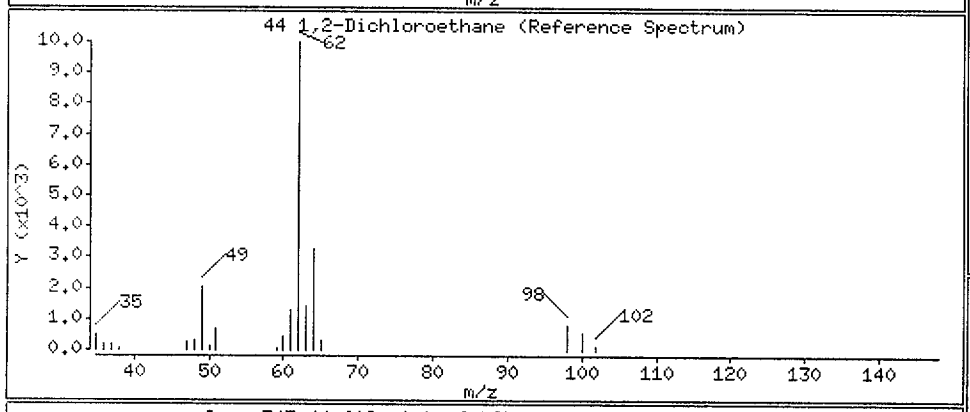
Concentration: 0.0040138 ug

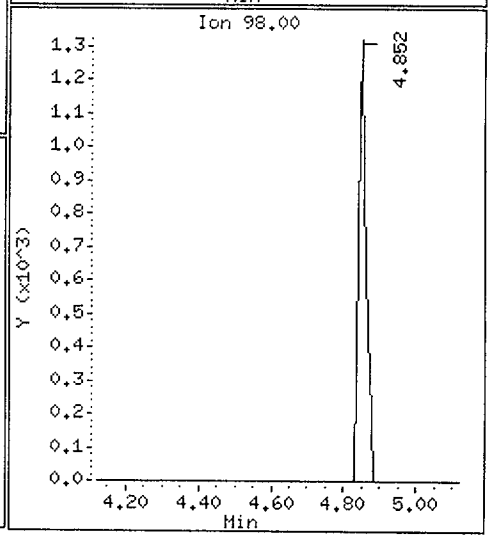


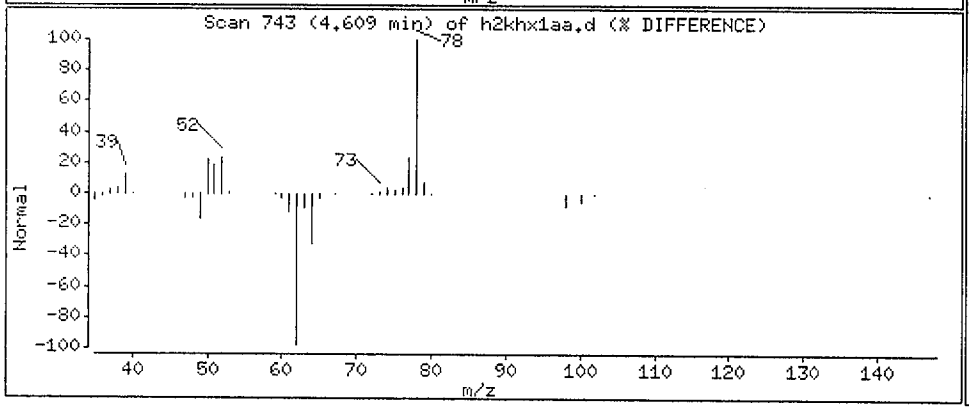












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

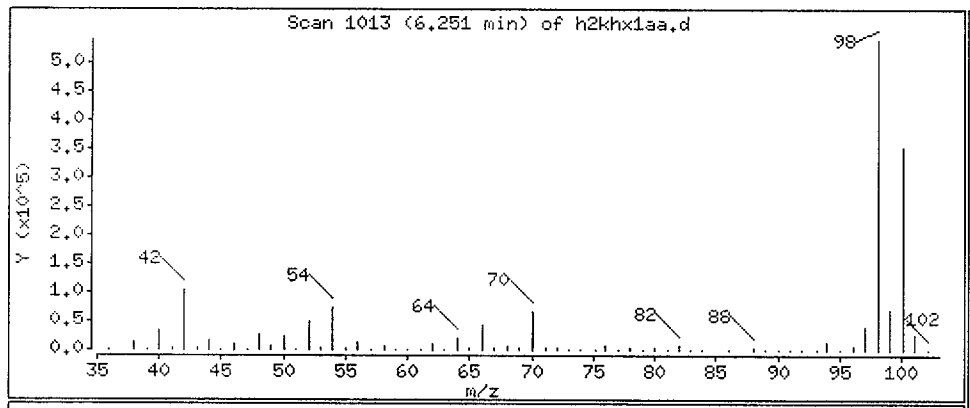
Operator: 22980

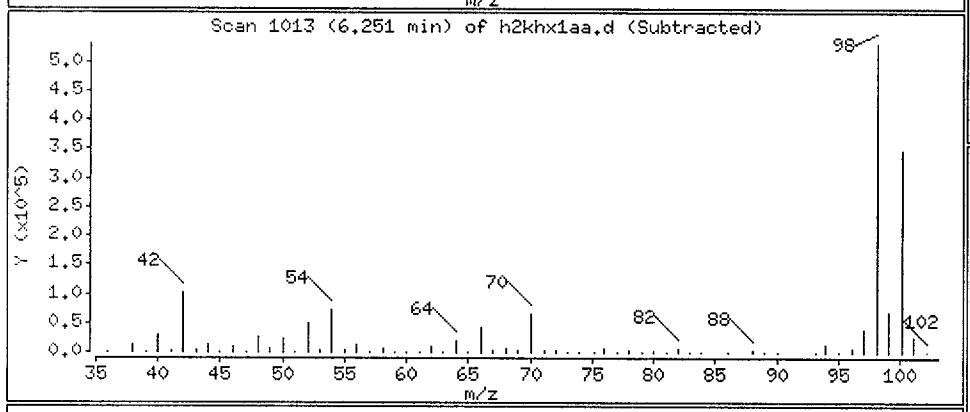
Column phase: J+W 624

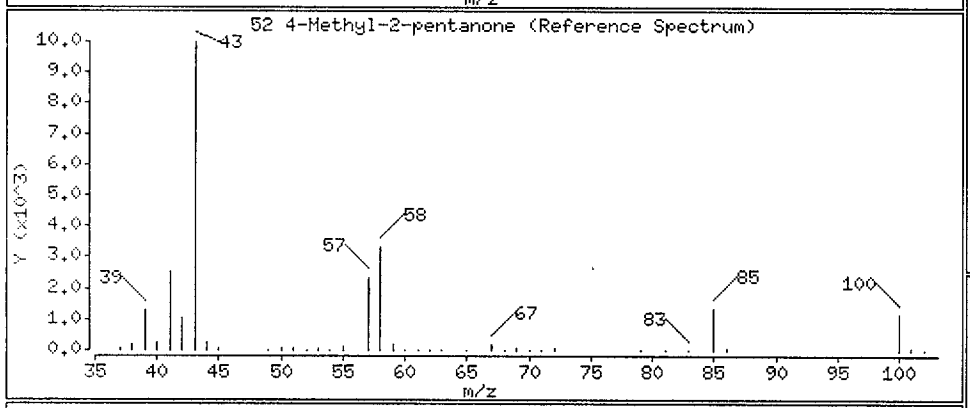
Column diameter: 0.18

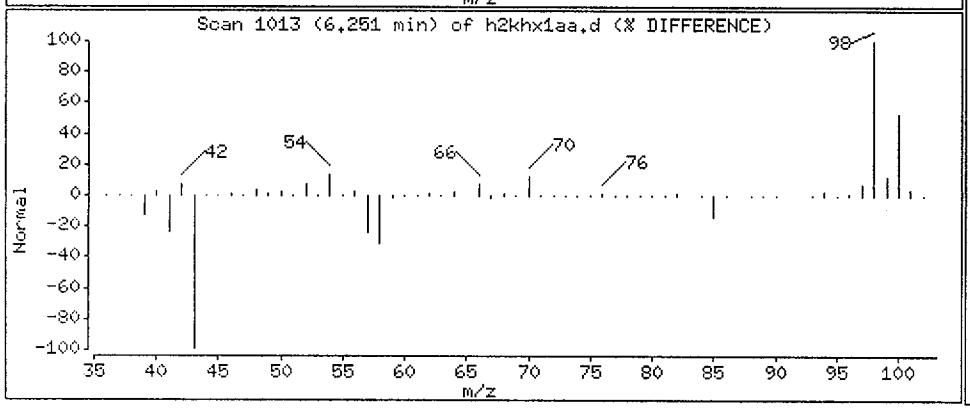
52 4-Methyl-2-pentanone

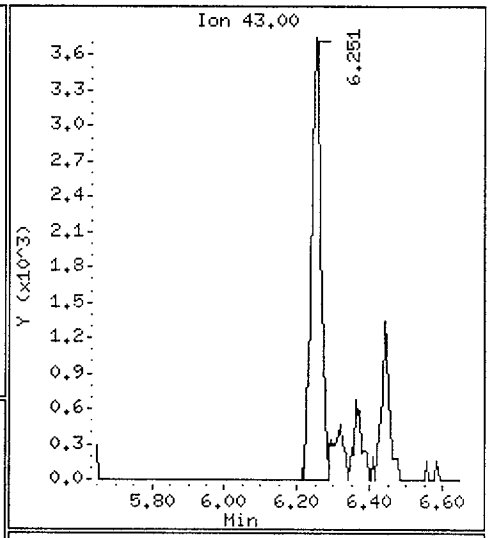
Concentration: 0.031023 ug

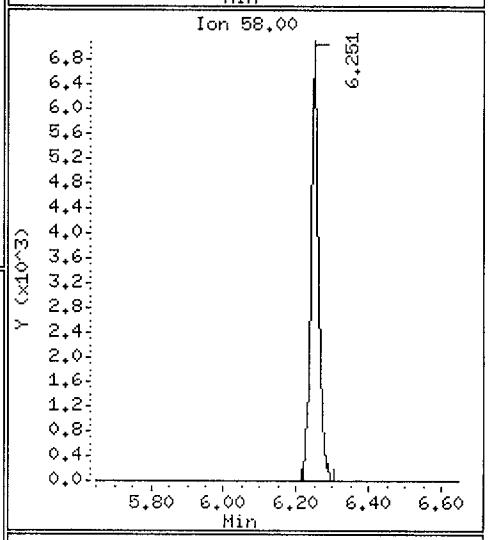


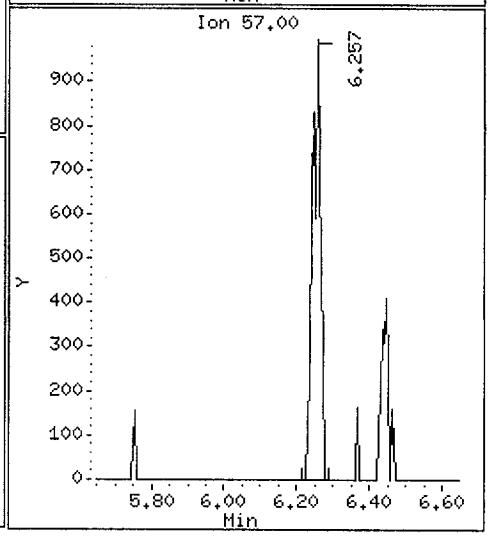












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

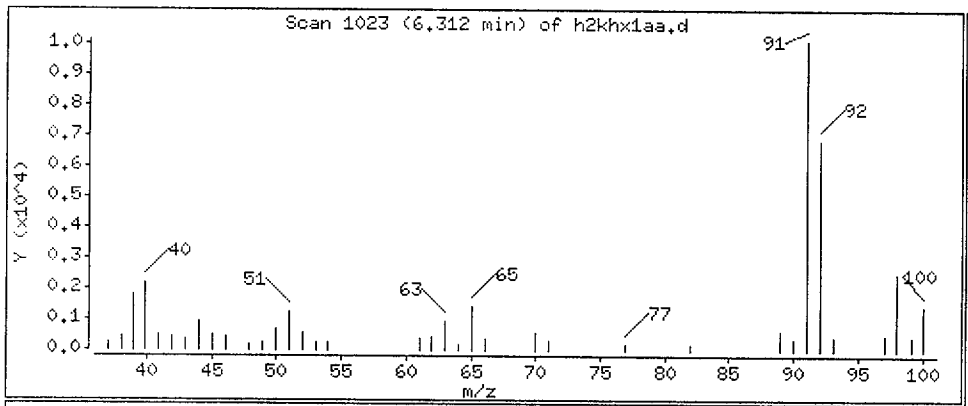
Operator: 22980

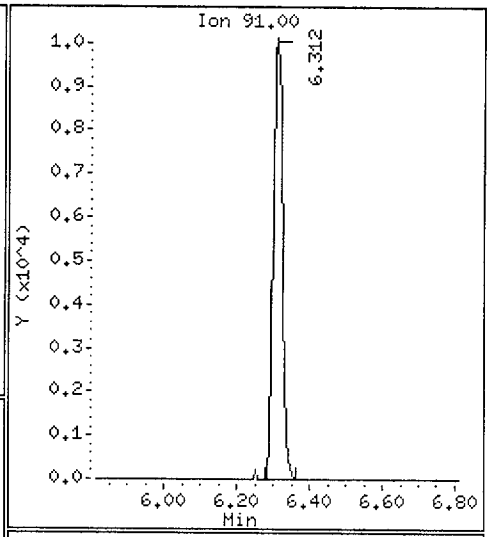
Column phase: J+W 624

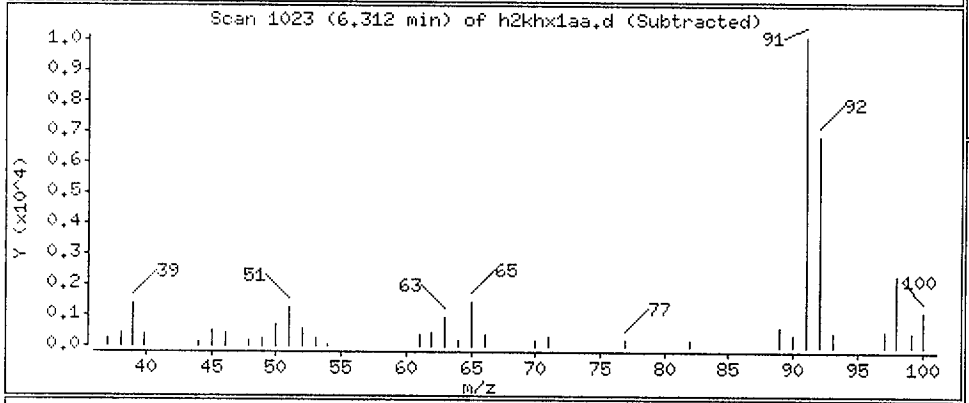
Column diameter: 0.18

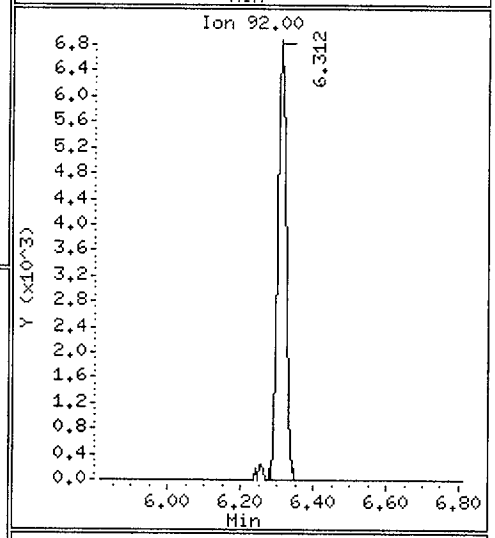
53 Toluene (ccc)

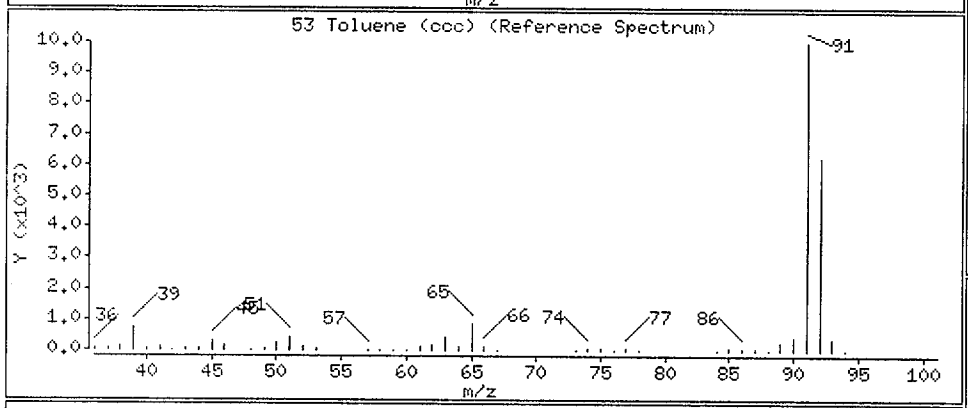
Concentration: 0.0030501 ug

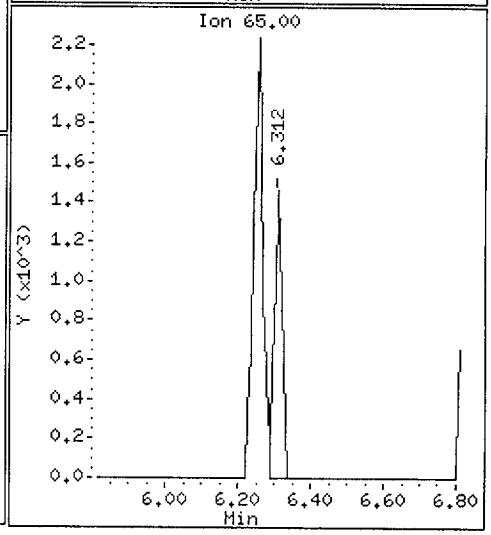


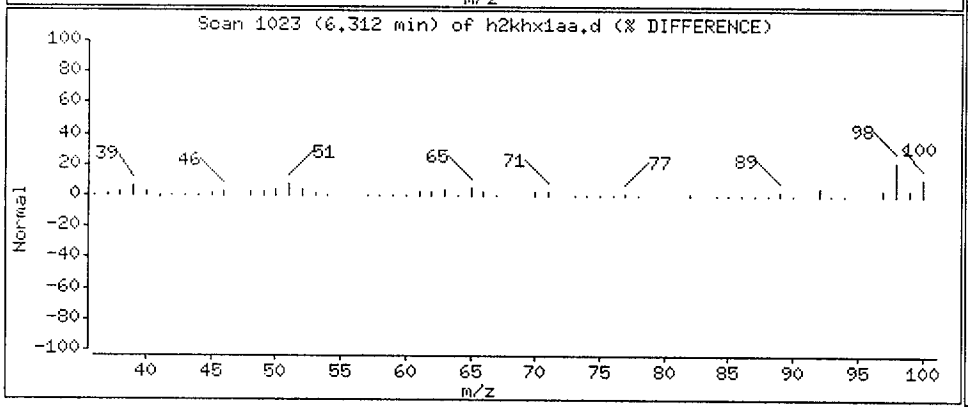












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

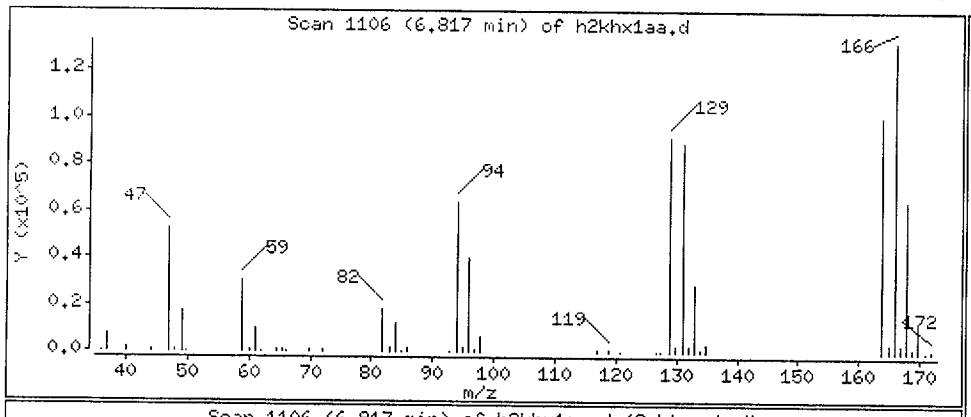
Operator: 22980

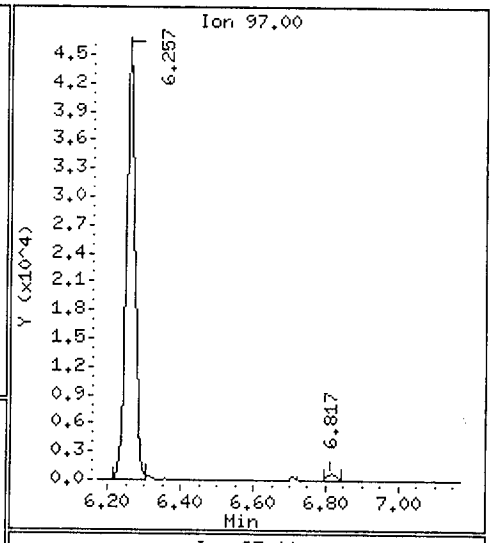
Column phase: J+W 624

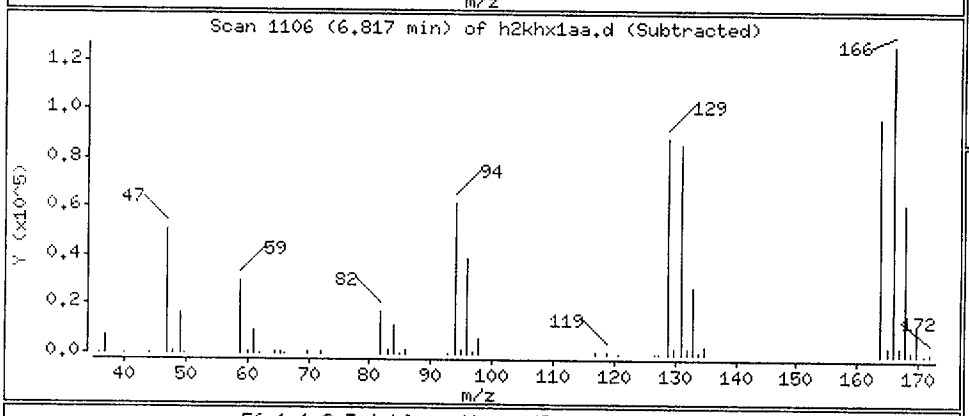
Column diameter: 0.18

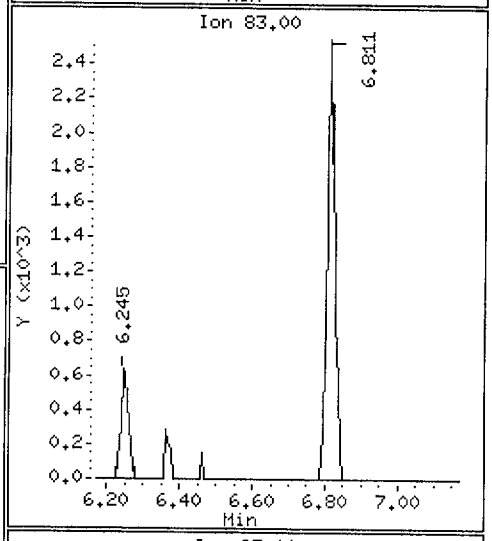
56 1,1,2-Trichloroethane

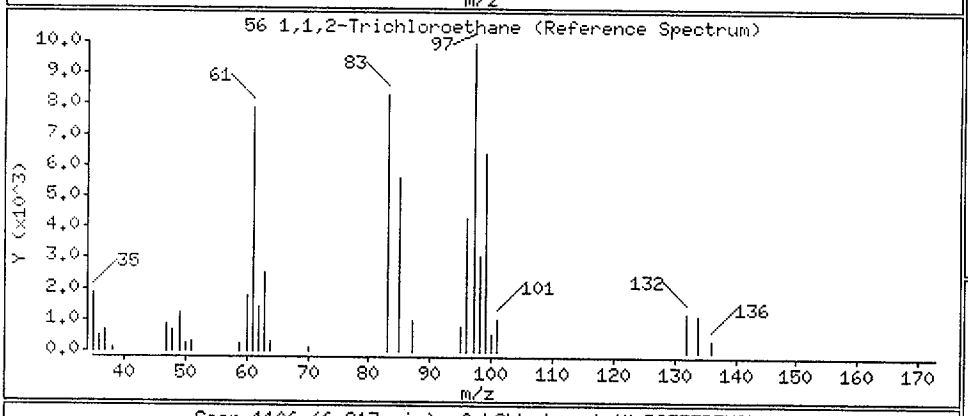
Concentration: 0.0032659 ug

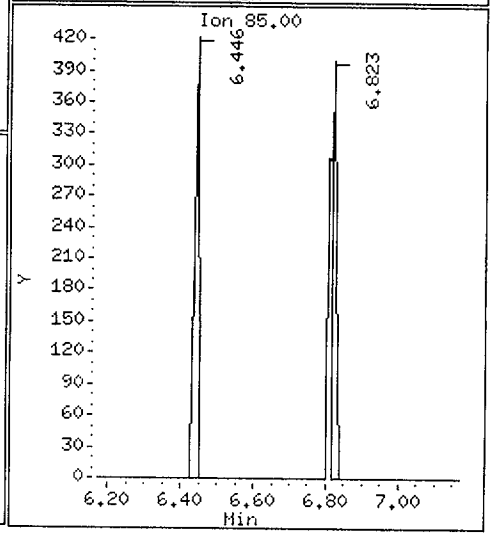


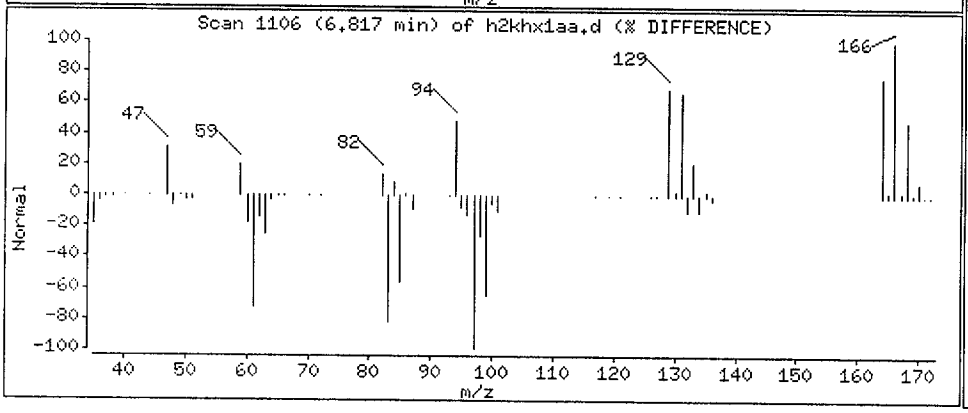












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

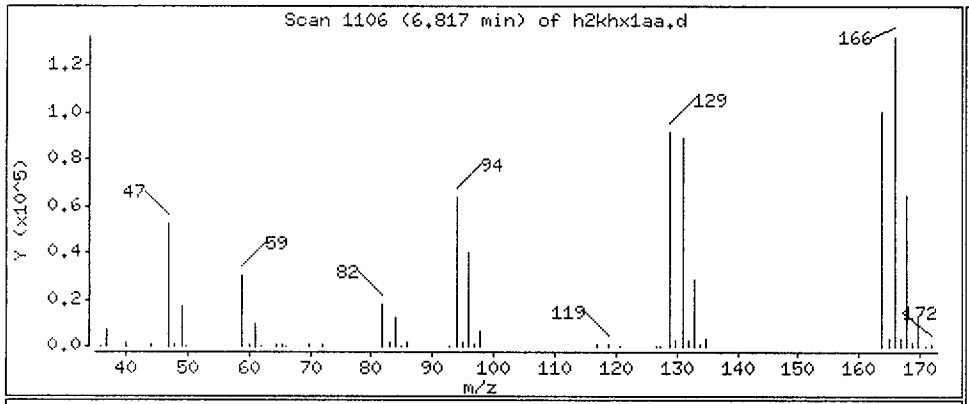
Operator: 22980

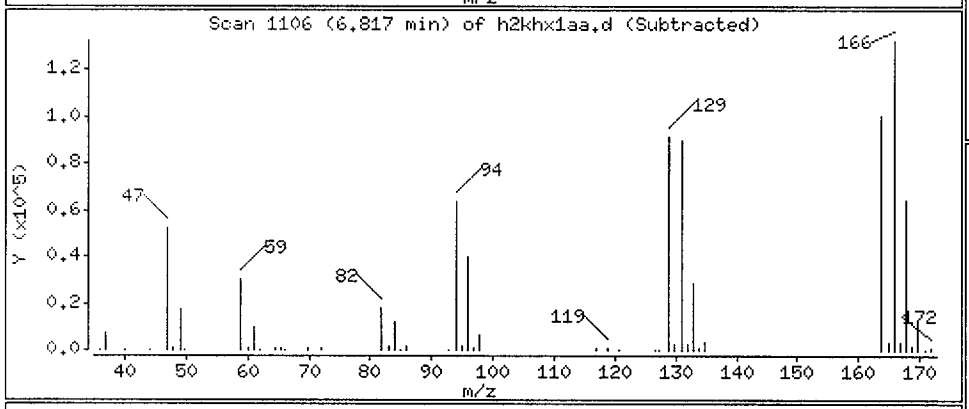
Column phase: J+W 624

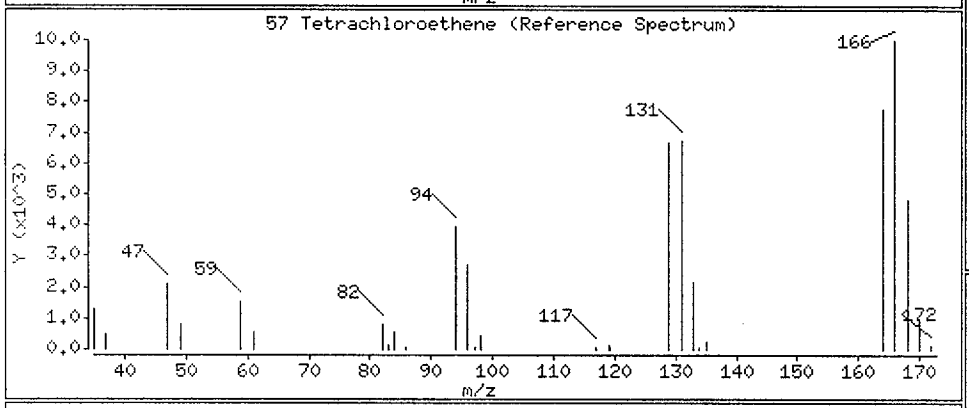
Column diameter: 0.18

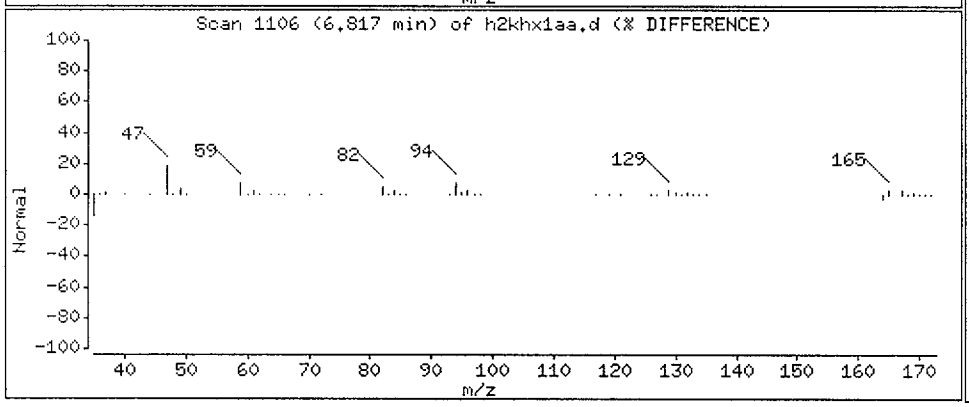
57 Tetrachloroethene

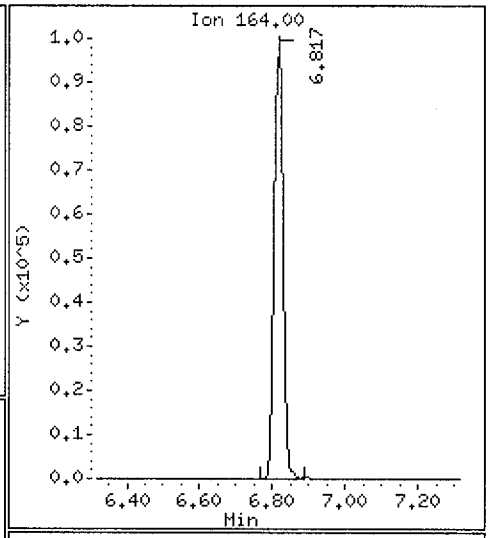
Concentration: 0.13574 ug

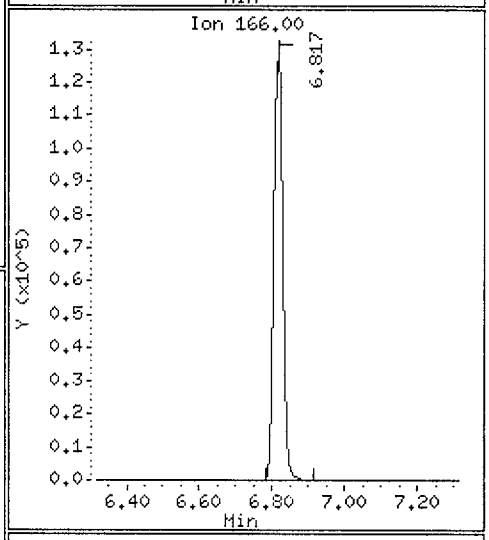


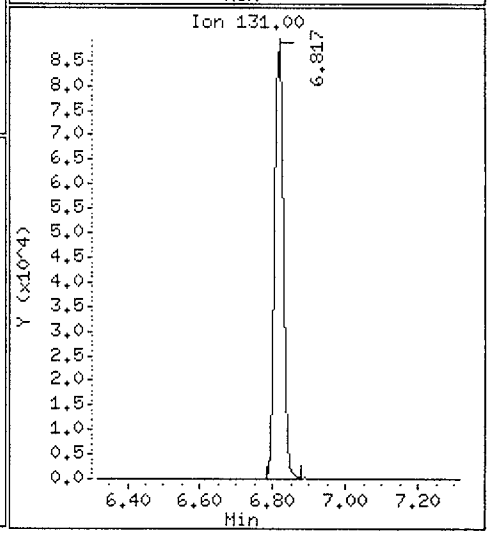












Data File: /chem/gcms/mx.i/X040706.b/h2khx1aa.d

Date : 07-APR-2006 18:34

Client ID: AUDIT VOST #5

Instrument: mx.i

Sample Info: H2KHX1AA,1,0,,,

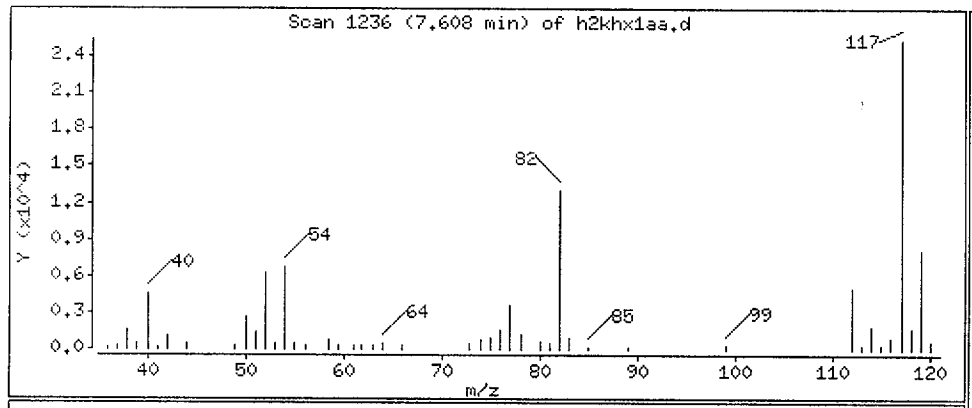
Operator: 22980

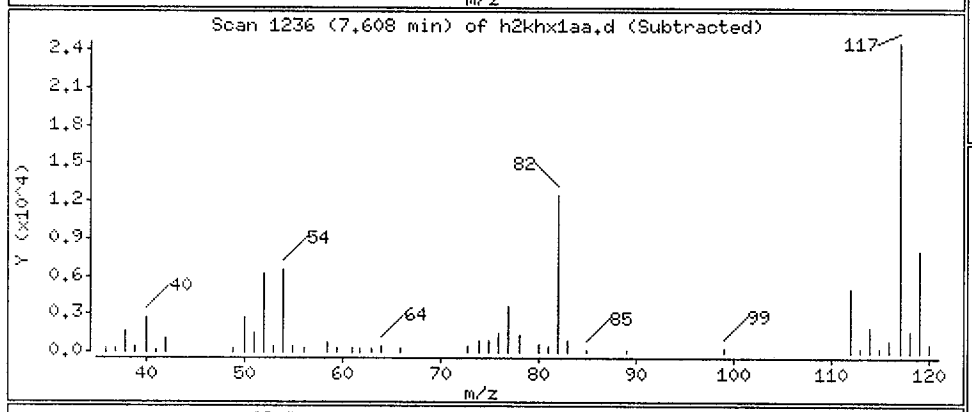
Column phase: J+W 624

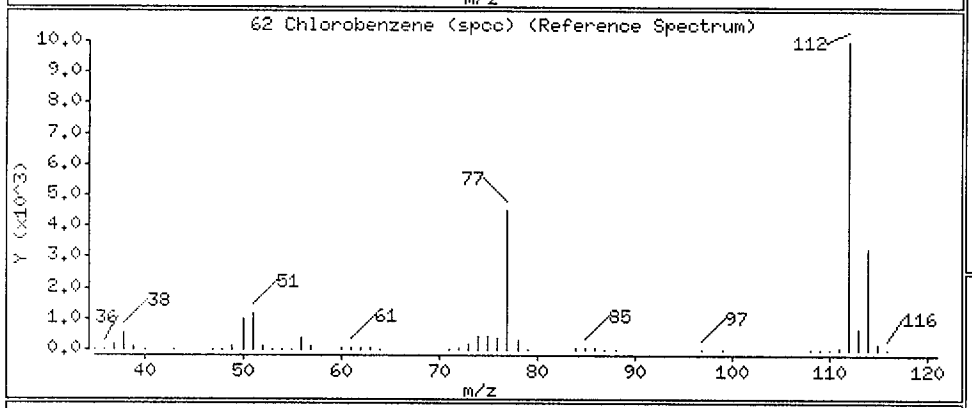
Column diameter: 0.18

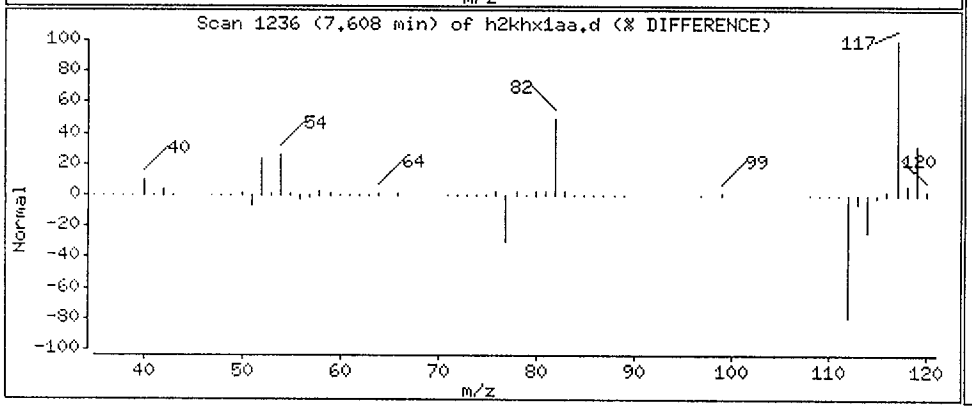
62 Chlorobenzene (spcc)

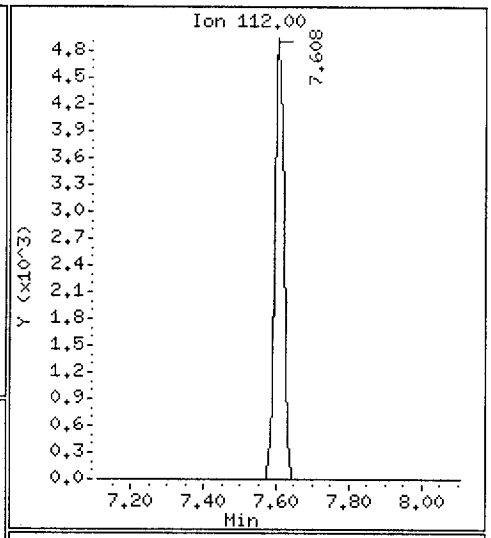
Concentration: 0.0029060 ug

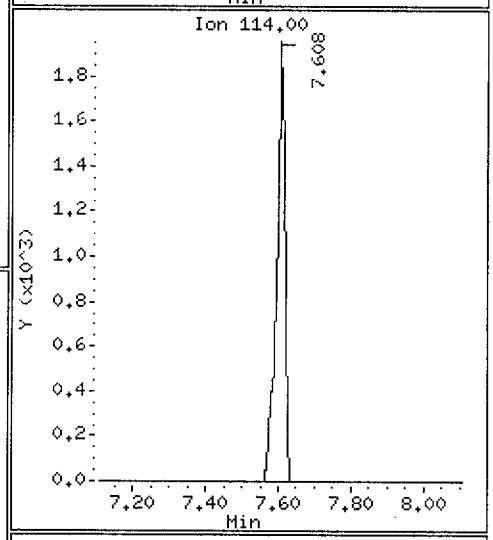


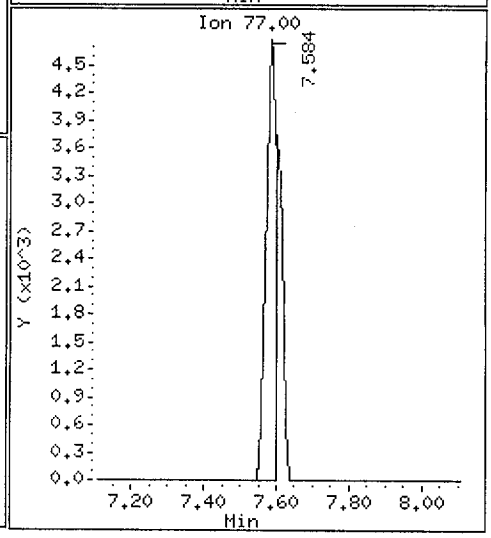












Data File: /var/chem/gcms/mx.i/X040706.b/h2khx1aa.d
Report Date: 18-Apr-2006 14:59

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2khx1aa.d
Lab Smp Id: H2KHX1AA Client Smp ID: AUDIT VOST #5
Inj Date : 07-APR-2006 18:34
Operator : 22980 Inst ID: mx.i
Smp Info : H2KHX1AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #...: H6D030169-044 **Work Order #...:** H2KH11AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.059**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.049**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0044 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.074**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #...: H6D030169-044 **Work Order #...:** H2KH11AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0034 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	85	(50 - 134)
Toluene-d8	87	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #: H6D030169-044 **Work Order #:** H2KH11AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d
Report Date: 07-Apr-2006 18:18

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2kh11aa.d
Lab Smp Id: H2KH11AA Client Smp ID: AUDIT VOST #6
Inj Date : 07-APR-2006 18:01
Operator : 22980 Inst ID: mx.i
Smp Info : H2KH11AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	1014913	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.582	(1.000)	200901	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	220045	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	147528	8.54956	0.21374
$ 5 1,2-Dichloroethane d4	65	4.553	4.553	(0.939)	113969	8.47325	0.21183
$ 6 Toluene-d8	98	6.251	6.250	(0.824)	853396	8.67610	0.21690
$ 7 4 Bromofluorobenzene	95	8.873	8.872	(0.826)	167857	6.43381	0.16084
11 Chloromethane (spcc)	50	1.250	1.262	(0.258)	2012	0.04257	0.0010641
21 Acetone	43	2.375	2.381	(0.490)	4637	3.22604	0.080651
23 Carbon Disulfide	76	2.497	2.497	(0.515)	50838	0.65727	0.016432
26 Methylene Chloride	84	2.746	2.746	(0.566)	46943	2.99167	0.074792
33 *Vinyl Acetate	86	3.245	3.421	(0.669)	1285	1.11318	~~0.027830~~
36 2 Butanone	43	3.878	3.871	(0.799)	1530	0.68241	0.017060
38 *THF	42	4.134	4.109	(0.852)	1600	1.16486	0.029122
39 Chloroform (ccc)	83	4.134	4.139	(0.852)	113537	2.94334	0.073583
41 Carbon Tetrachloride	117	4.438	4.437	(0.915)	71439	1.96086	0.049022
42 1,1-Dichloropropene	75	4.608	4.437	(0.950)	4406	0.10966	~~0.0027416~~
43 Benzene	78	4.608	4.607	(0.950)	243872	2.37262	0.059315
44 1,2-Dichloroethane	62	4.608	4.620	(0.950)	2483	0.14358	~~0.0035895~~
52 4-Methyl-2-pentanone	43	6.257	6.147	(1.290)	7014	1.30636	~~0.032659~~

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d
Report Date: 07-Apr-2006 18:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug)
53 Toluene (ccc)	91	6.311	6.311	(0.832)	15938	0.13544	0.0033860
56 1,1,2-Trichloroethane	97	6.810	6.670	(0.898)	1402	0.15086	0.0037714
57 Tetrachloroethene	164	6.816	6.816	(0.899)	164128	6.49106	0.16228
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	10579	0.17513	0.0043782

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d
Report Date: 07-Apr-2006 18:18

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2kh11aa.d
Lab Smp Id: H2KH11AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: AUDIT VOST #6
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1014913	-11.68
2 Chlorobenzene-d5	214194	107097	428388	200901	-6.21
3 1,4 Dichlorobenze	242601	121300	485202	220045	-9.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.01
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	0.01

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.

Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d
Report Date: 07-Apr-2006 18:18

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2KH11AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: AUDIT VOST #6
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

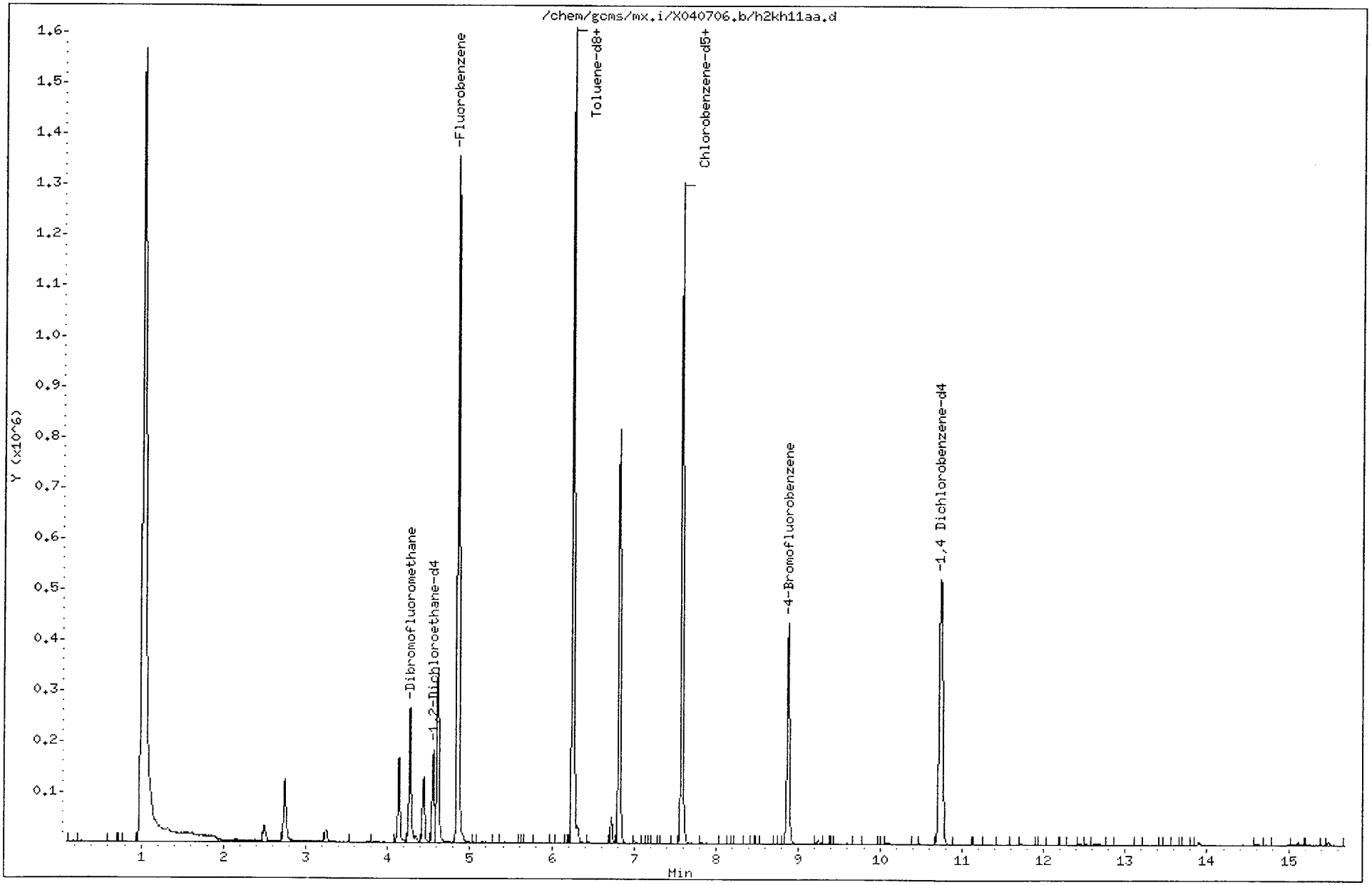
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.21374	85.50	50-150
$ 5 1,2-Dichloroethane	0.25000	0.21183	84.73	50-150
$ 6 Toluene-d8	0.25000	0.21690	86.76	50-150
$ 7 4-Bromofluorobenze	0.25000	0.16084	64.34	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d
Date : 07-APR-2006 18:01
Client ID: AUDIT VOST #6
Sample Info: H2KH11AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

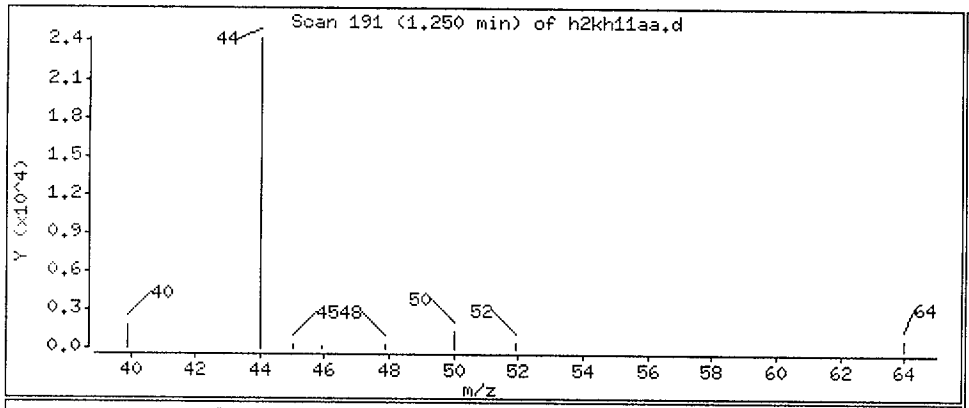
Operator: 22980

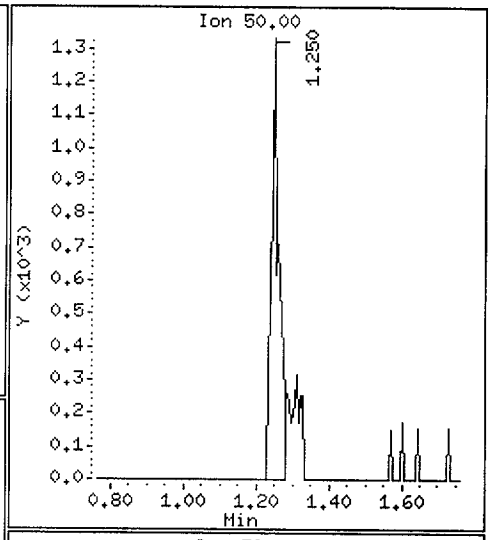
Column phase: J+W 624

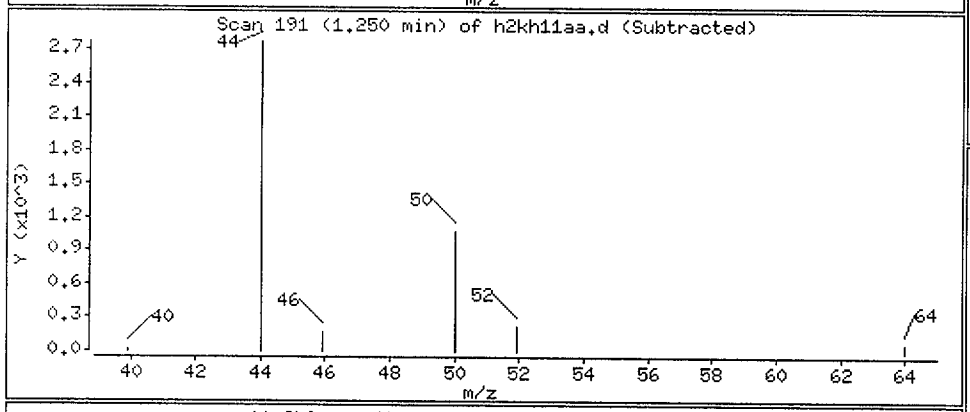
Column diameter: 0.18

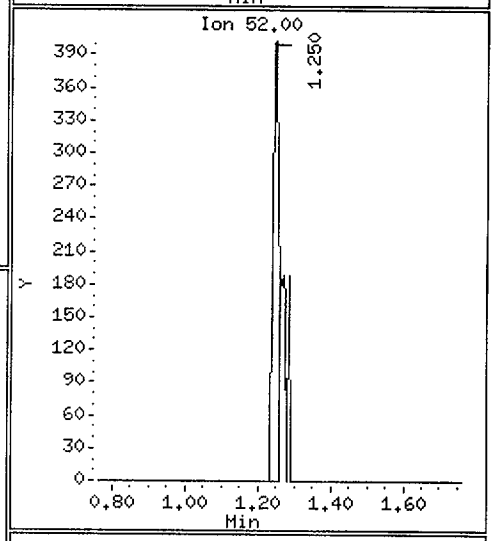
11 Chloromethane (spcc)

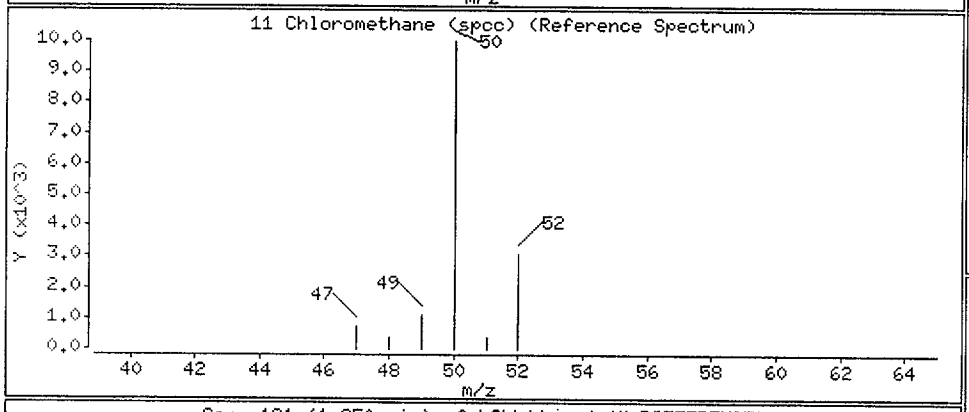
Concentration: 0.0010641 ug

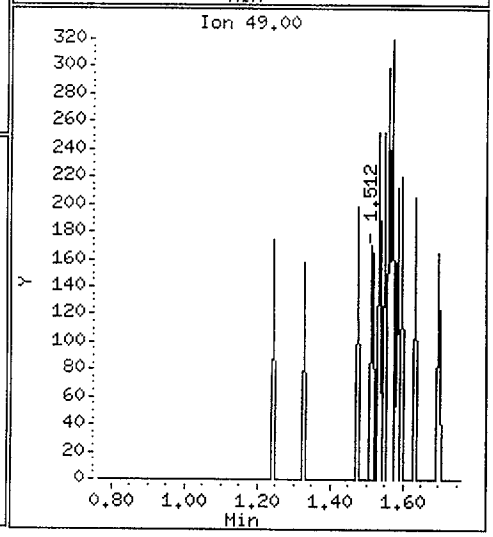


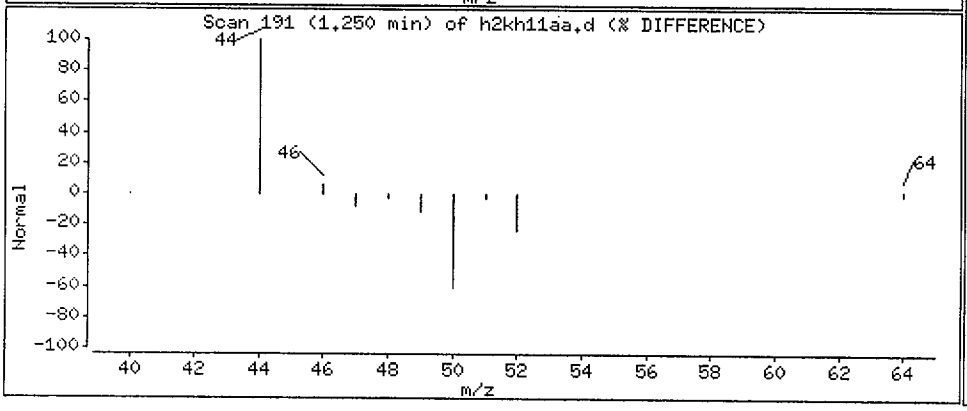












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

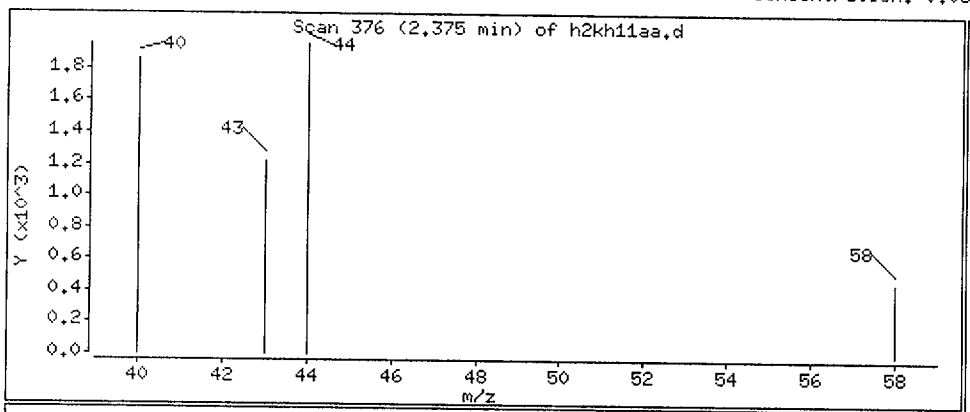
Operator: 22980

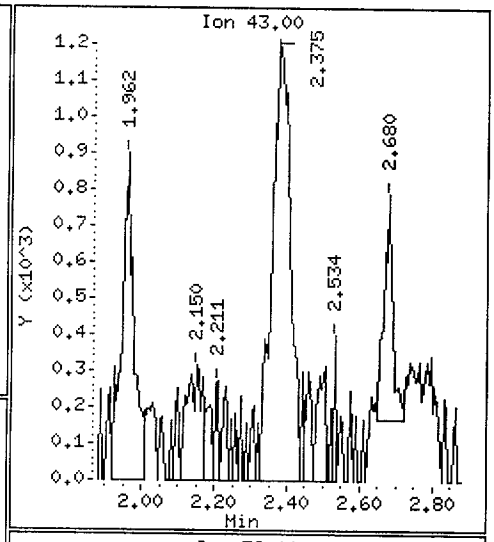
Column phase: J+W 624

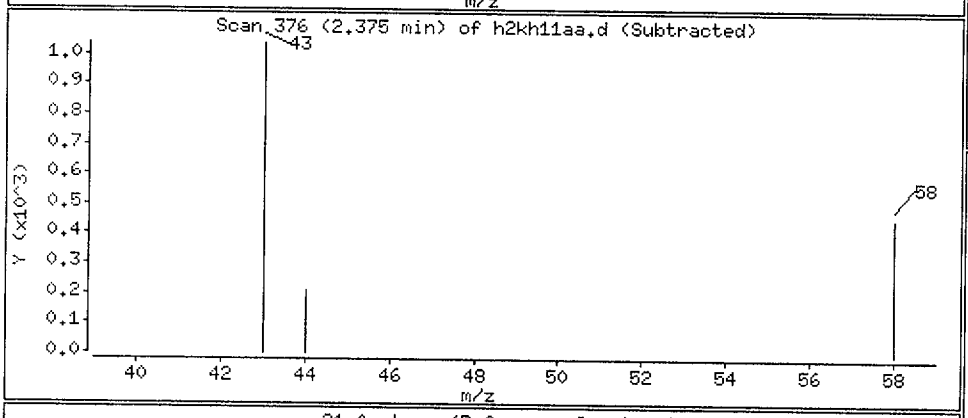
Column diameter: 0.18

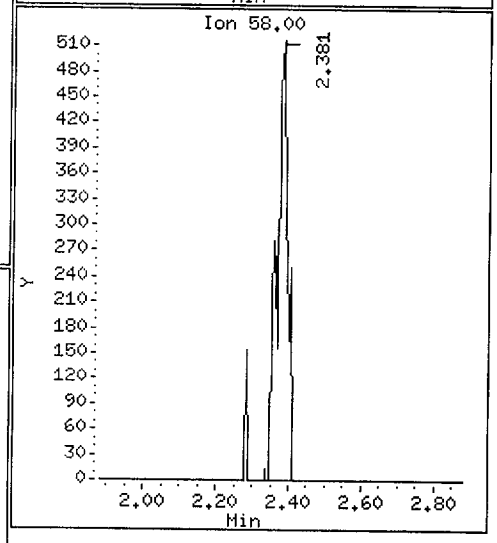
21 Acetone

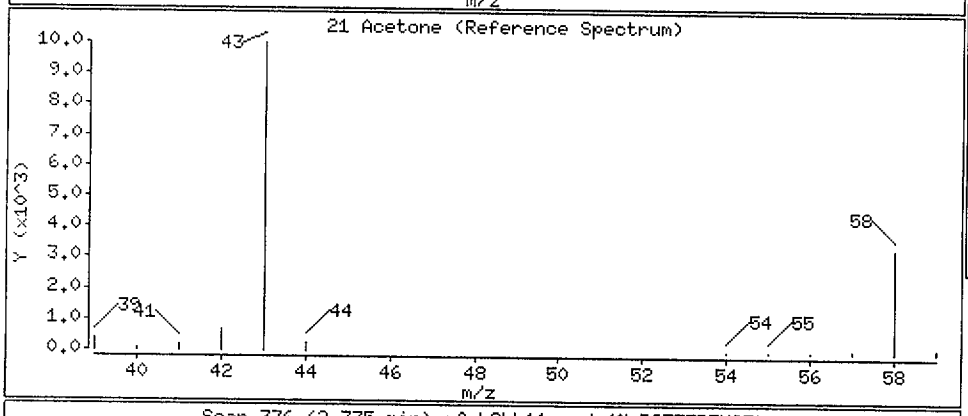
Concentration: 0.080651 ug

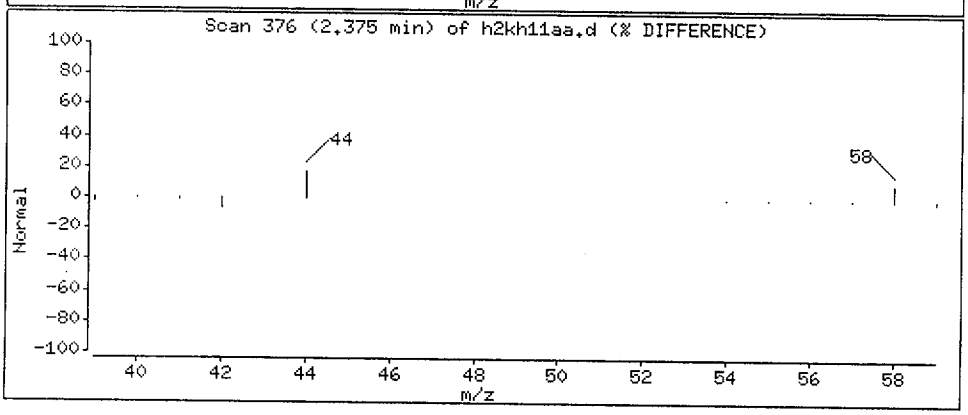












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

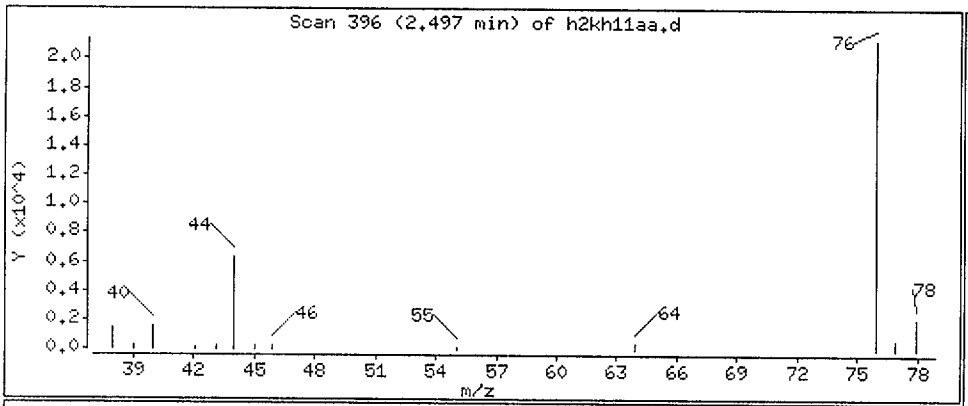
Operator: 22980

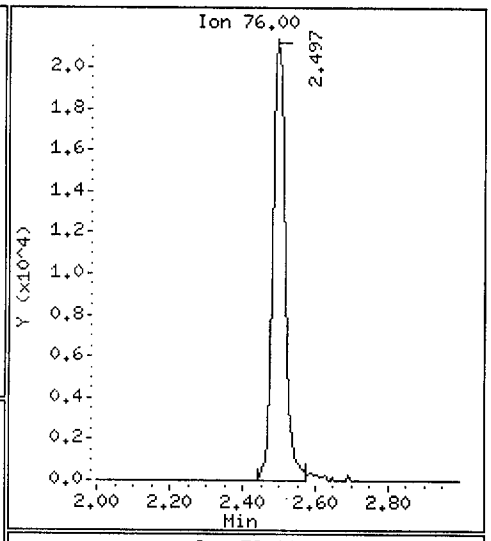
Column phase: J+W 624

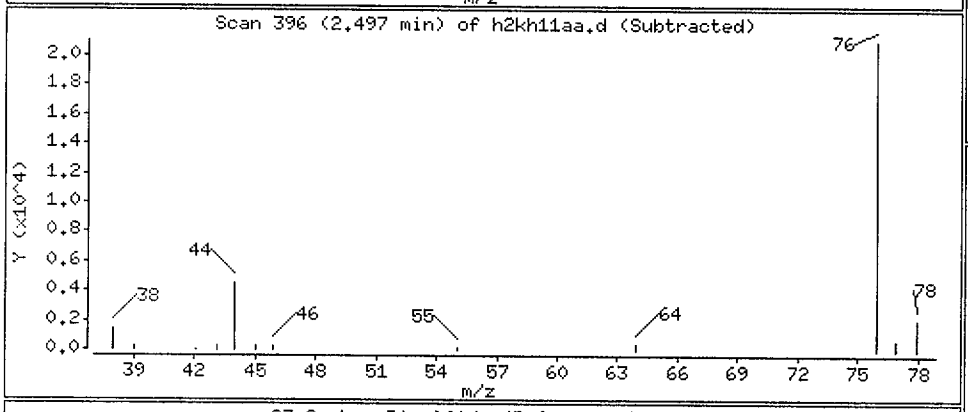
Column diameter: 0.18

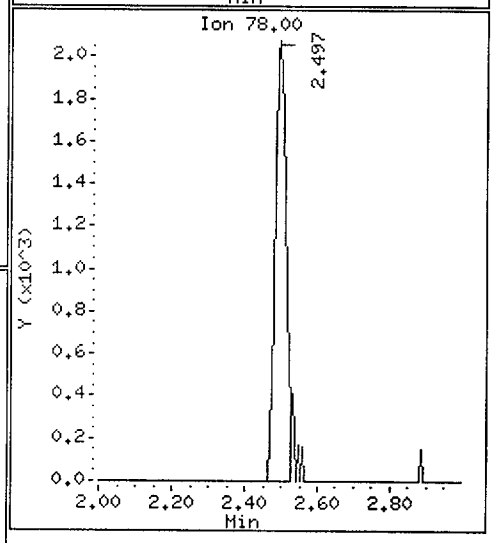
23 Carbon Disulfide

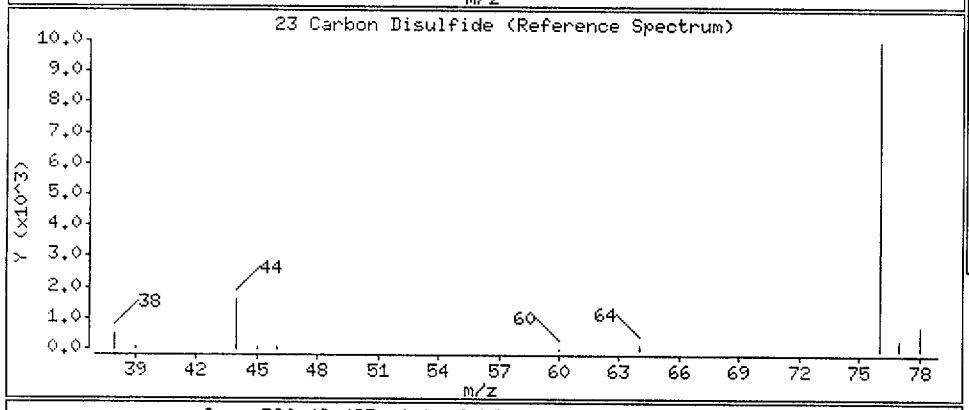
Concentration: 0.016432 ug

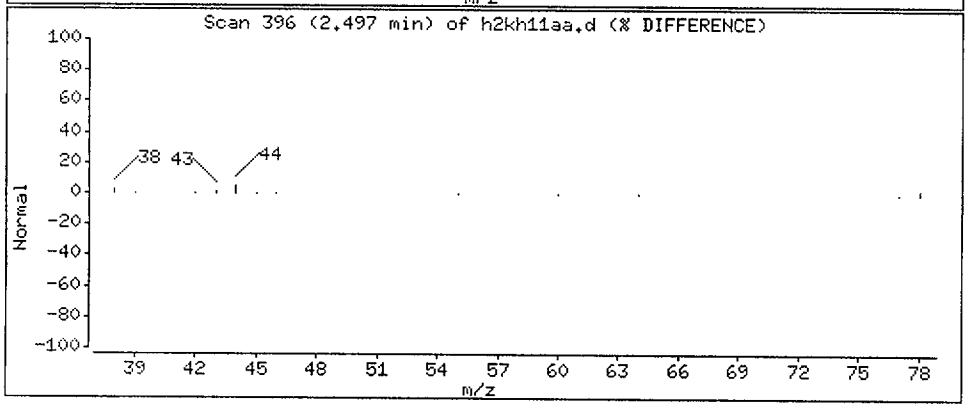












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

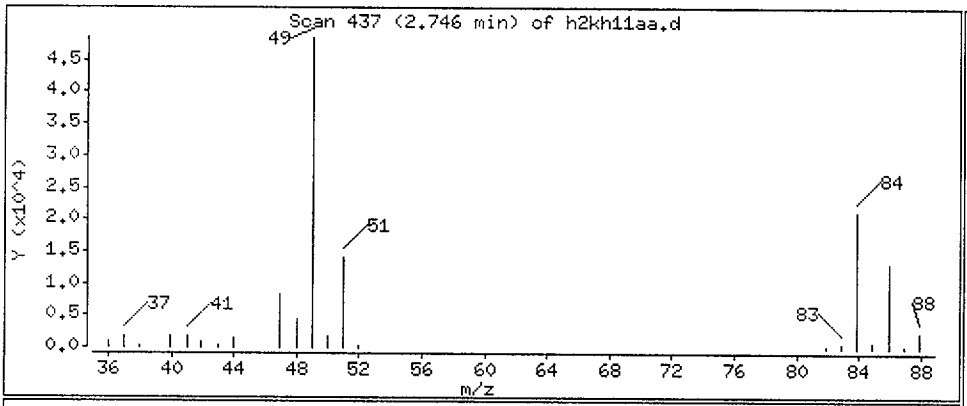
Operator: 22980

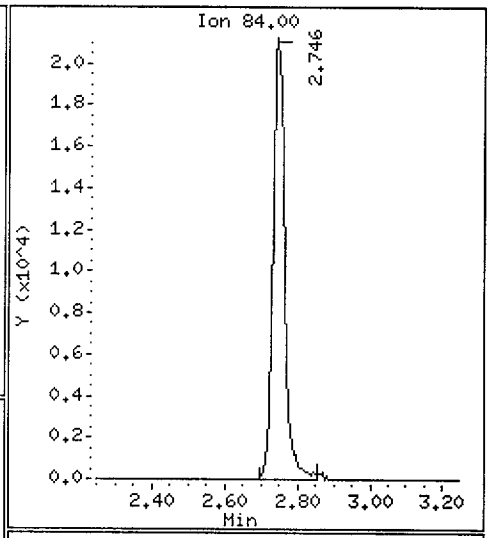
Column phase: J+W 624

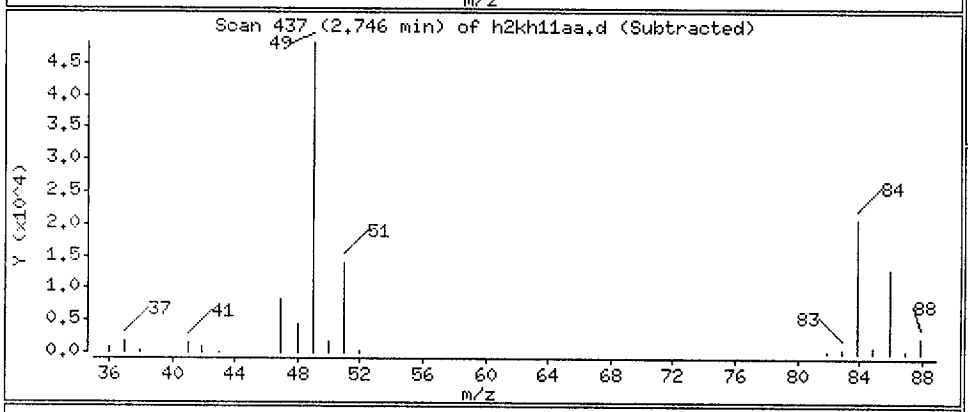
Column diameter: 0.18

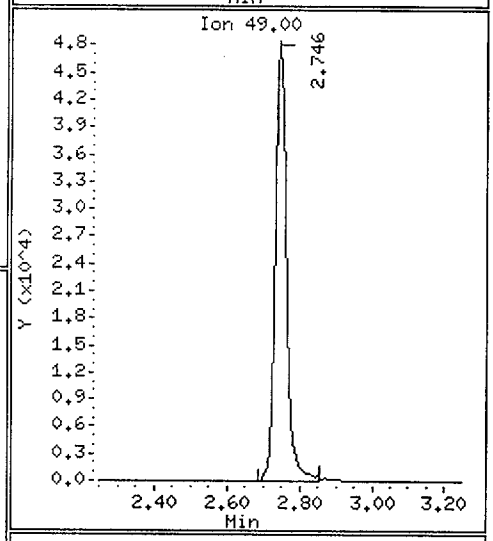
26 Methylene Chloride

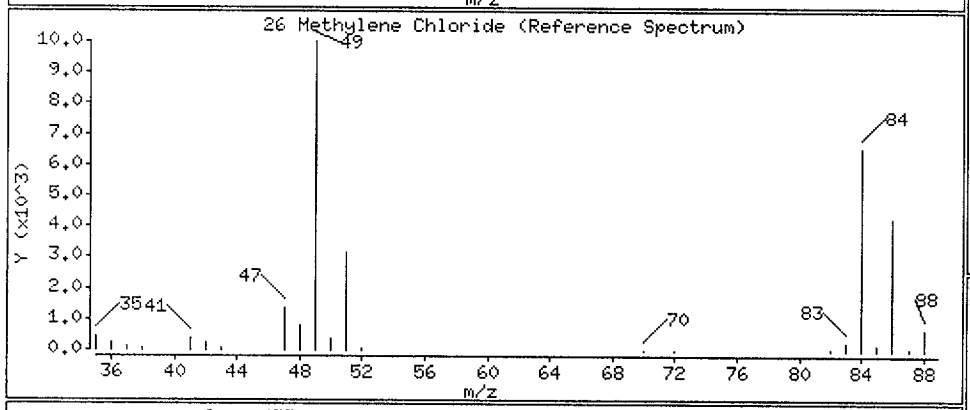
Concentration: 0.074792 ug

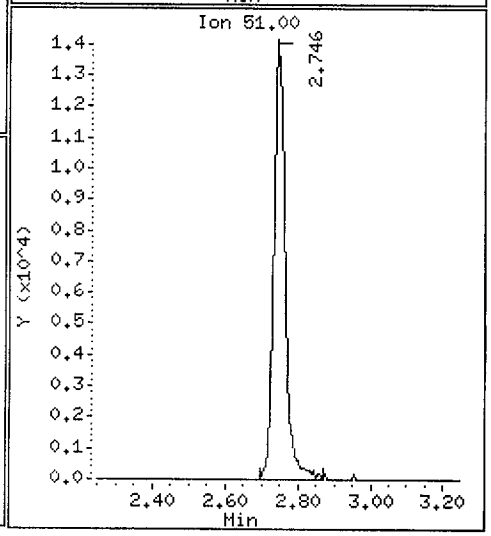


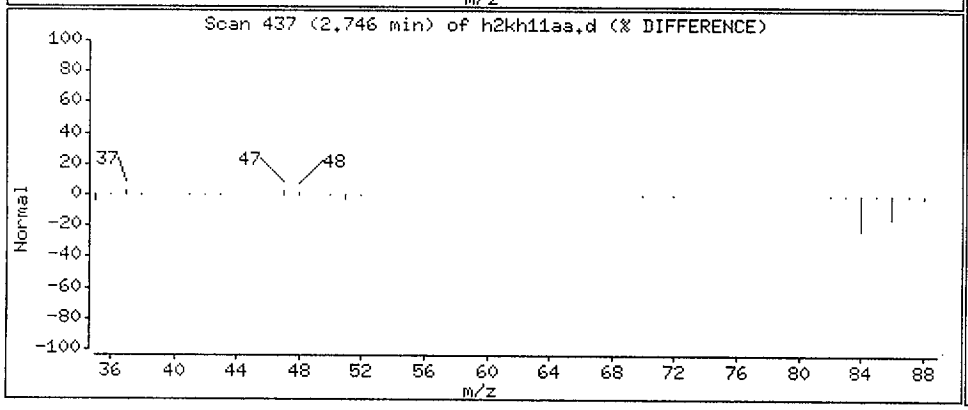












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

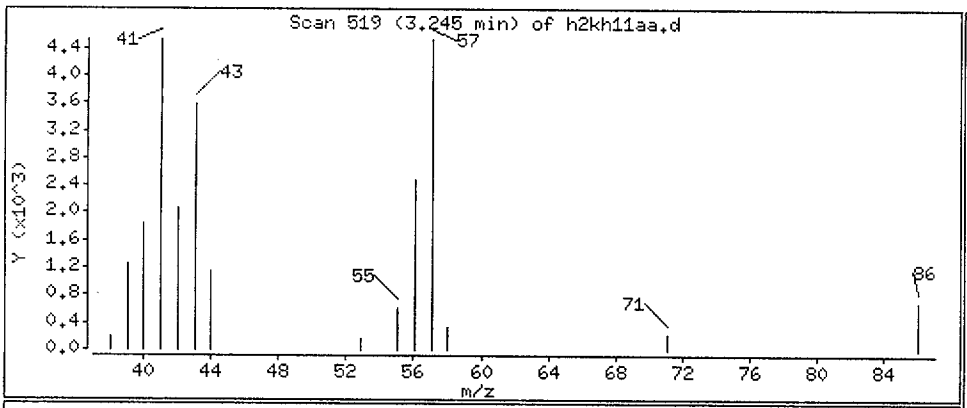
Operator: 22980

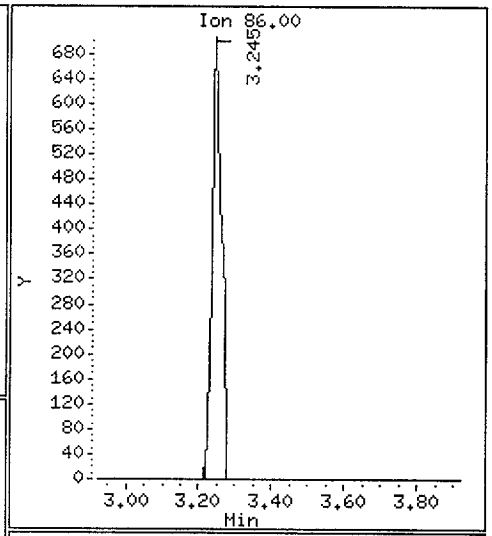
Column phase: J+W 624

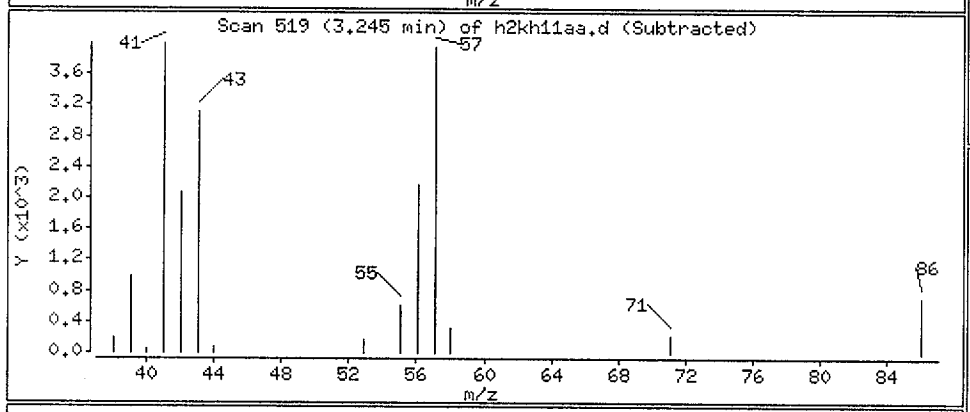
Column diameter: 0.18

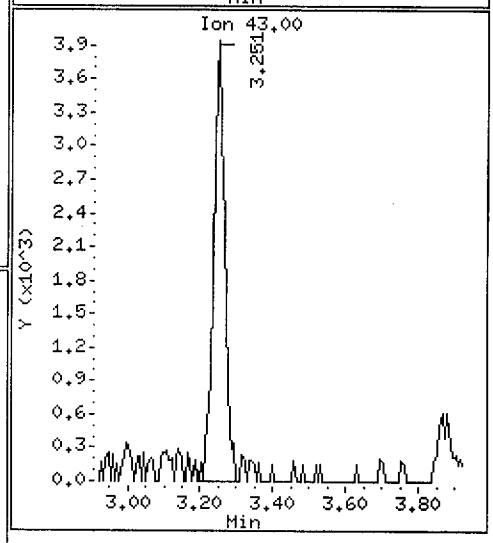
33 *Vinyl Acetate

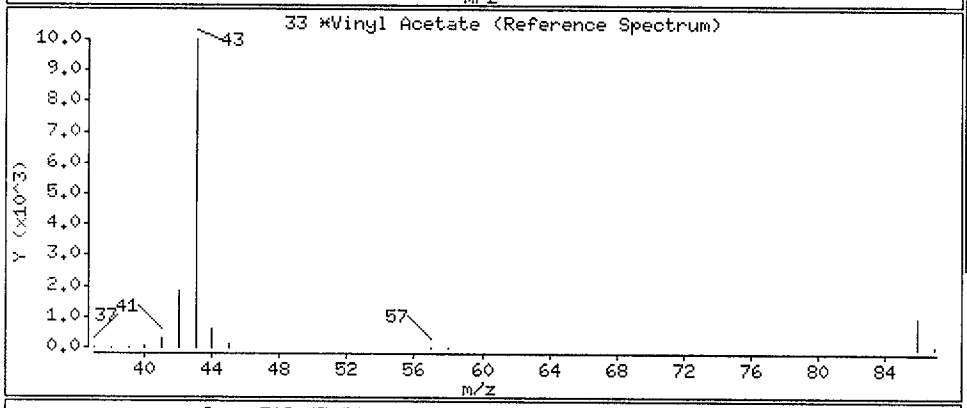
Concentration: 0.027830 ug

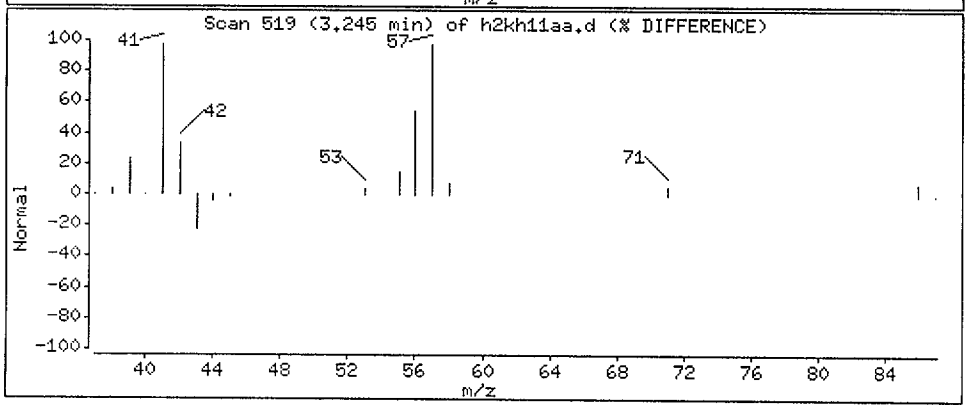












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

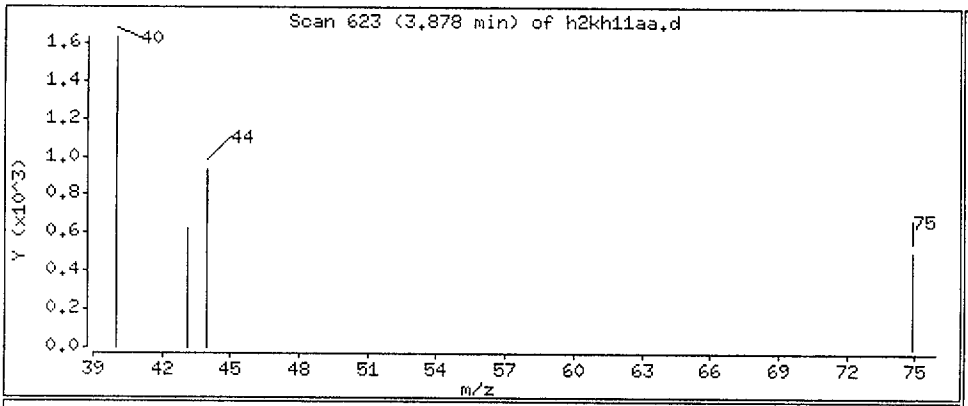
Operator: 22980

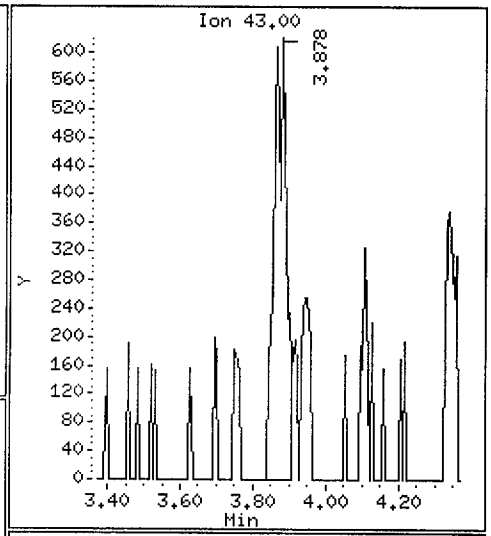
Column phase: J+W 624

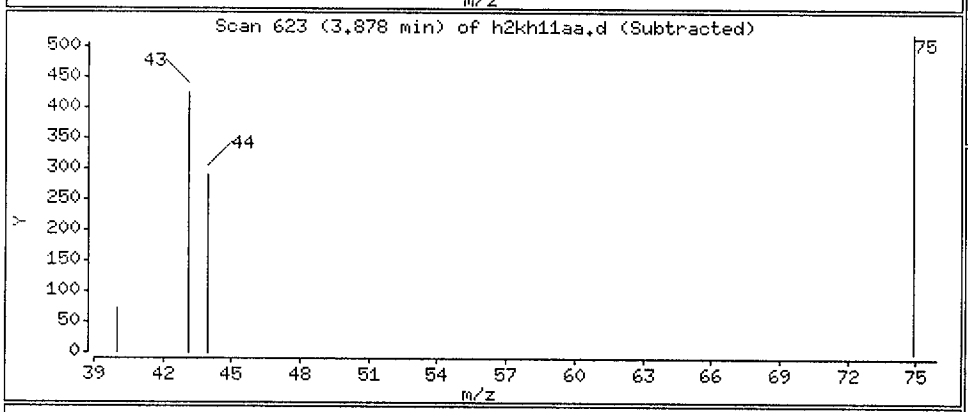
Column diameter: 0.18

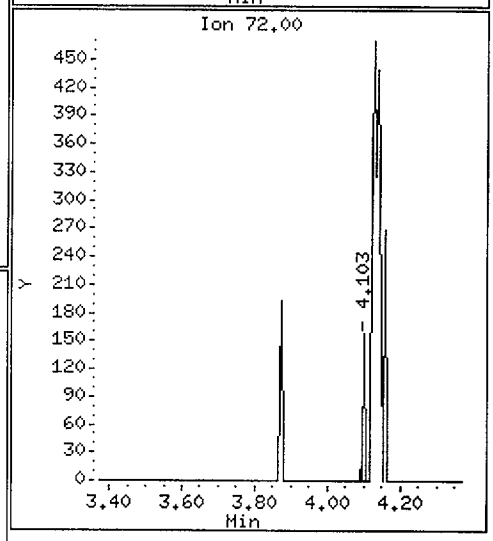
36 2-Butanone

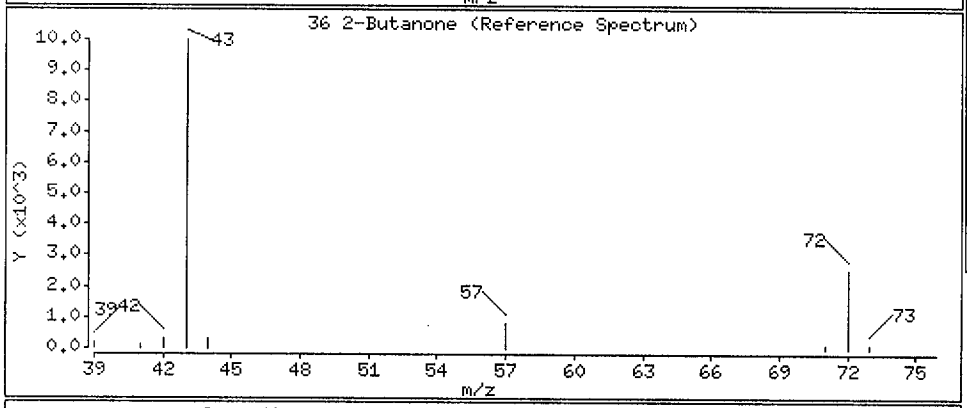
Concentration: 0.017060 ug

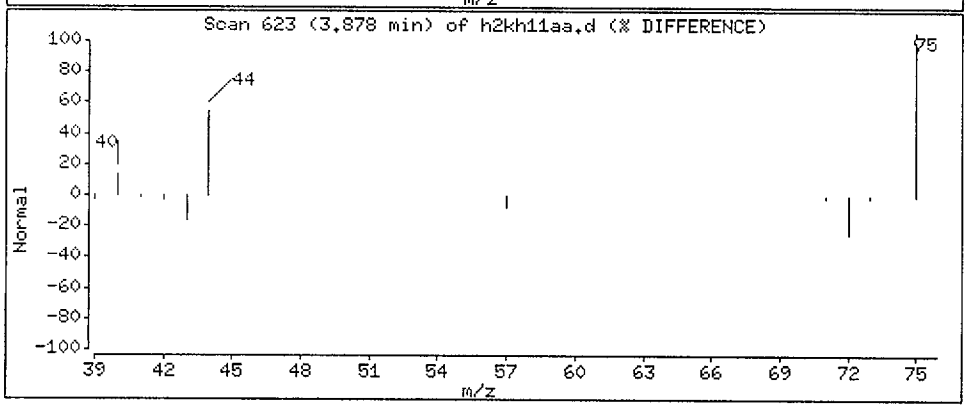












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

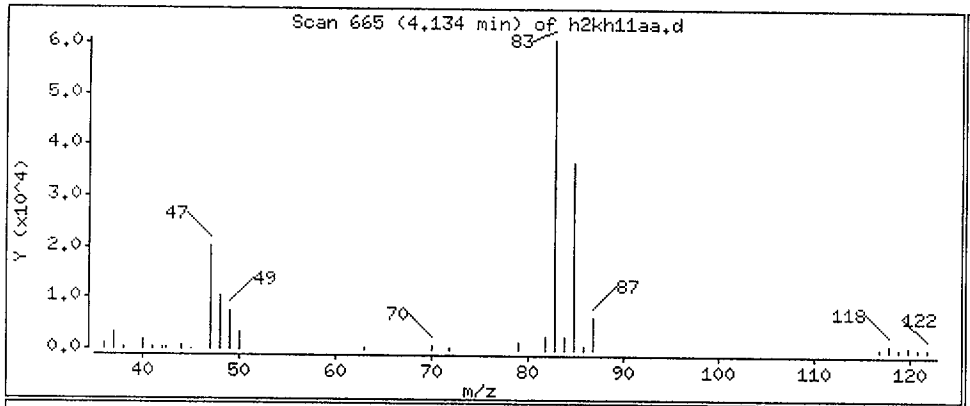
Operator: 22980

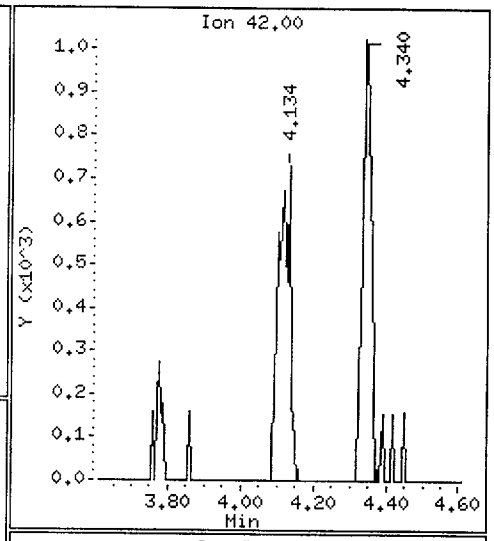
Column phase: J+W 624

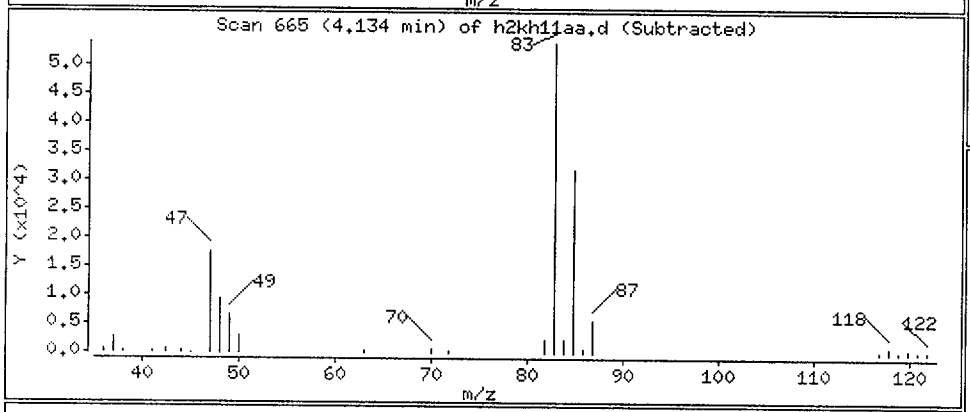
Column diameter: 0.18

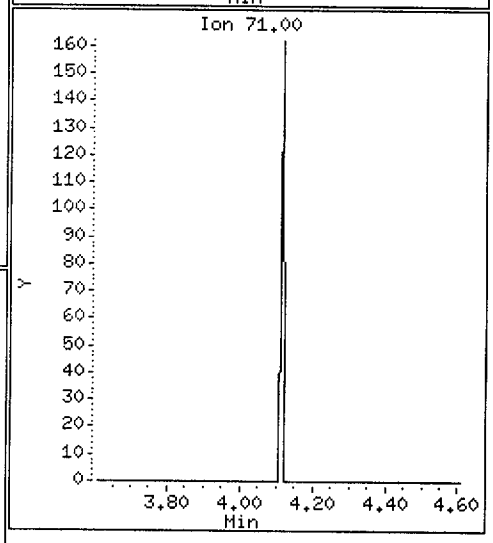
38 *THF

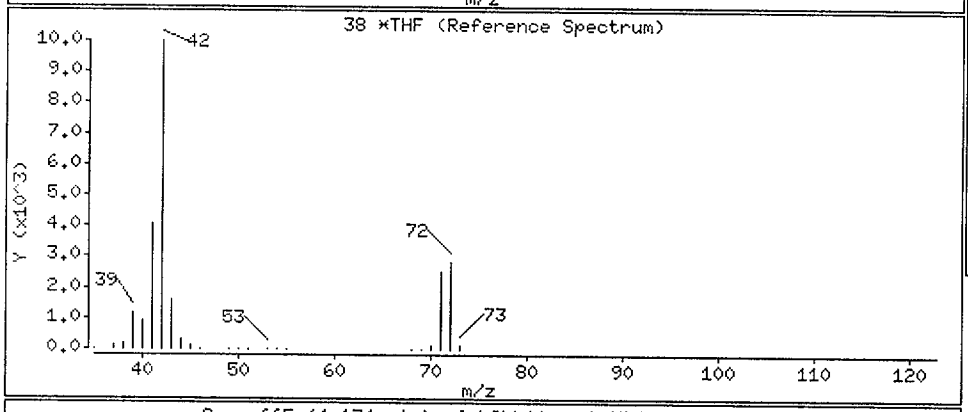
Concentration: 0.029122 ug

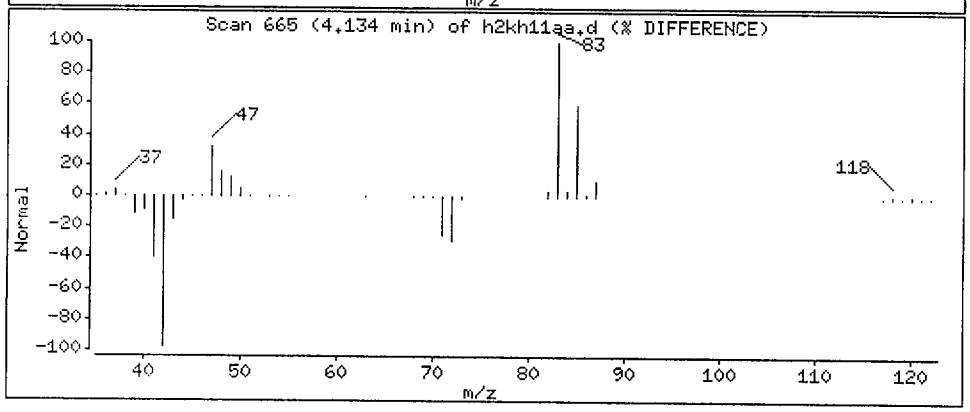












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

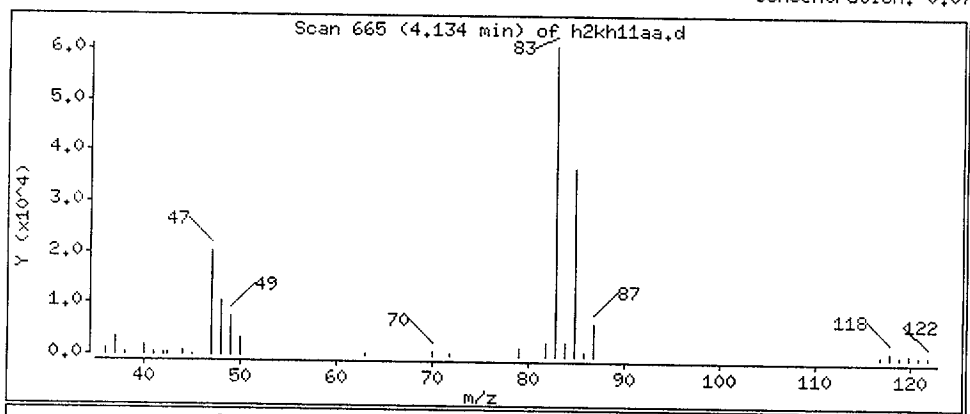
Operator: 22980

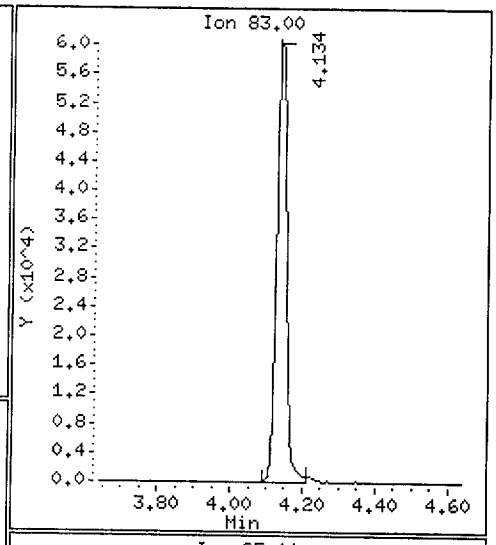
Column phase: J+W 624

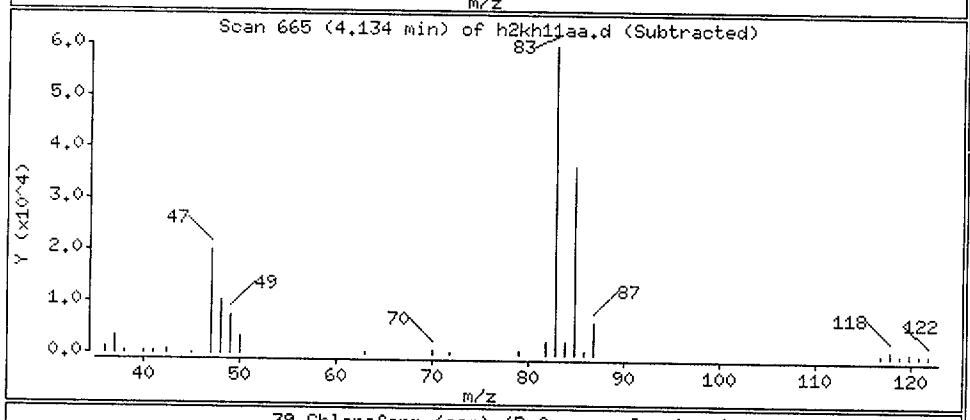
Column diameter: 0.18

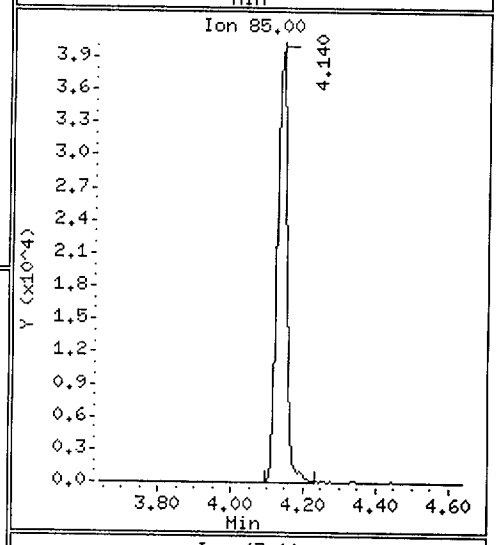
39 Chloroform (ccc)

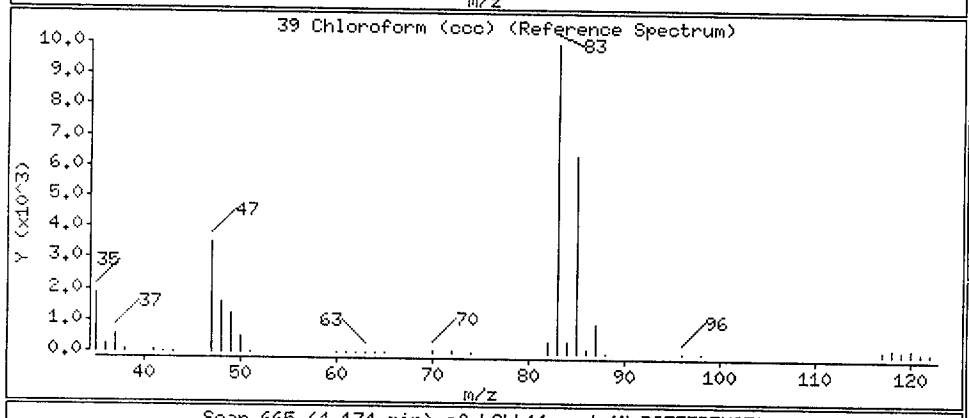
Concentration: 0.073583 ug

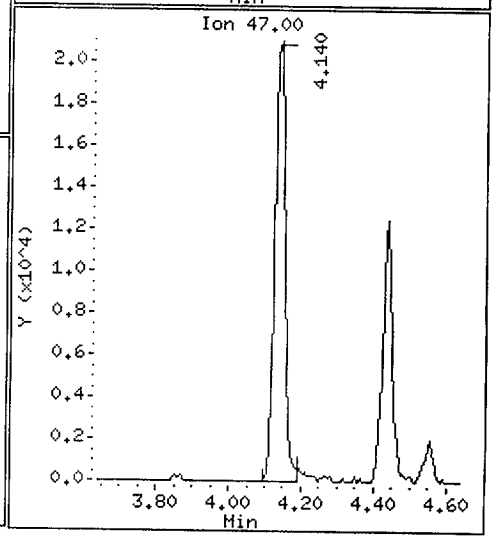


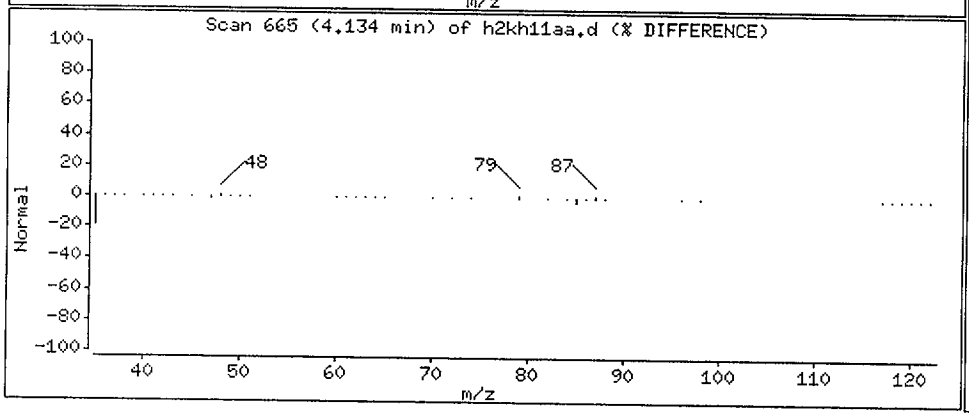












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

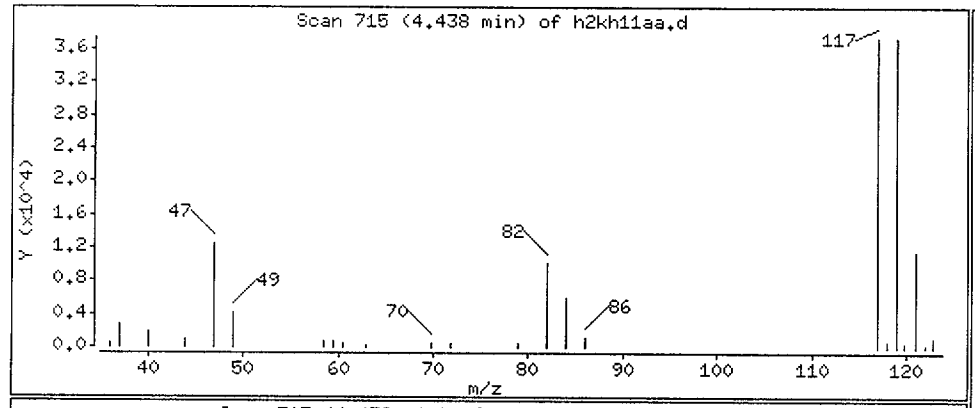
Operator: 22980

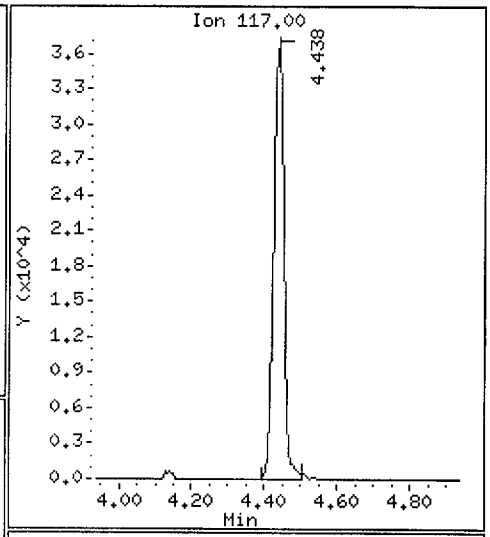
Column phase: J+W 624

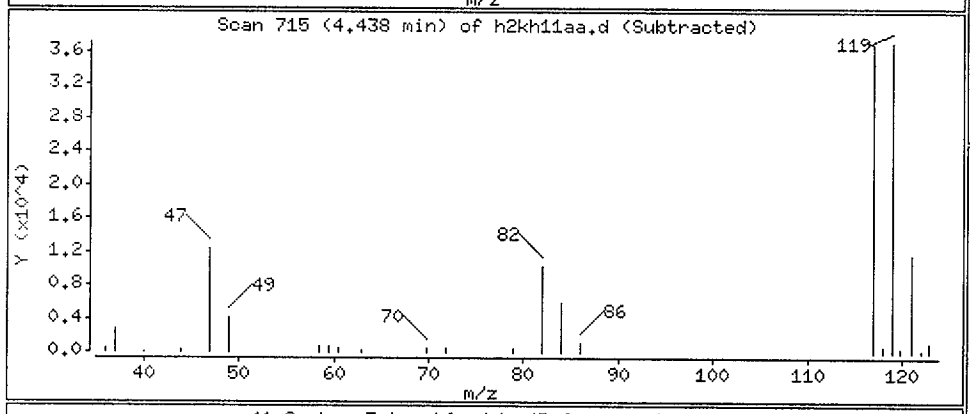
Column diameter: 0.18

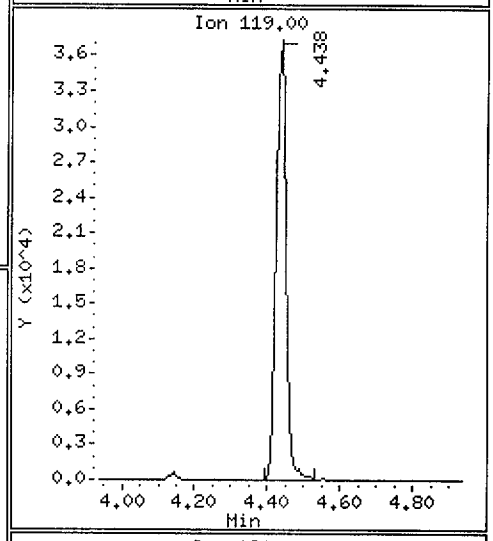
41 Carbon Tetrachloride

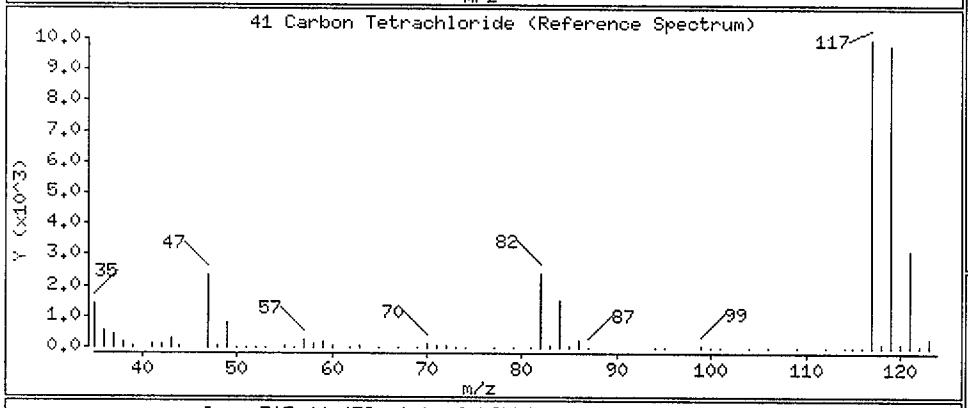
Concentration: 0.049022 ug

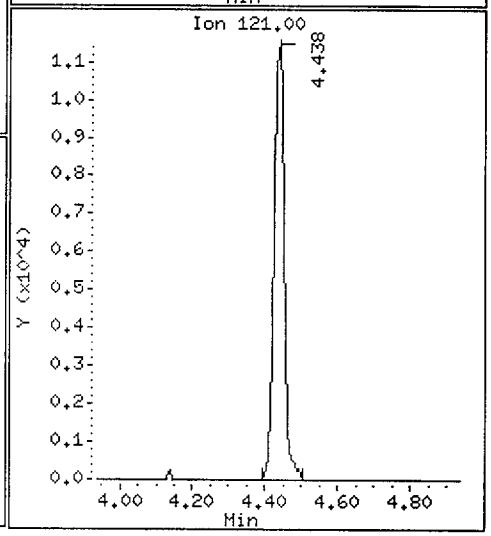


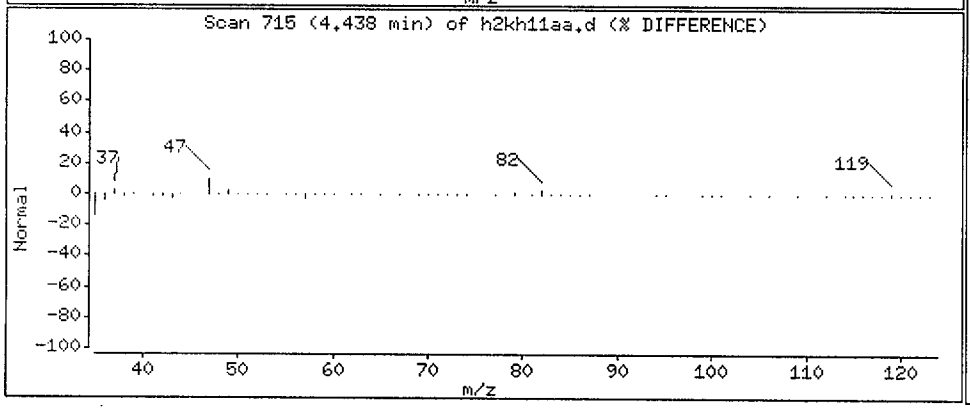












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

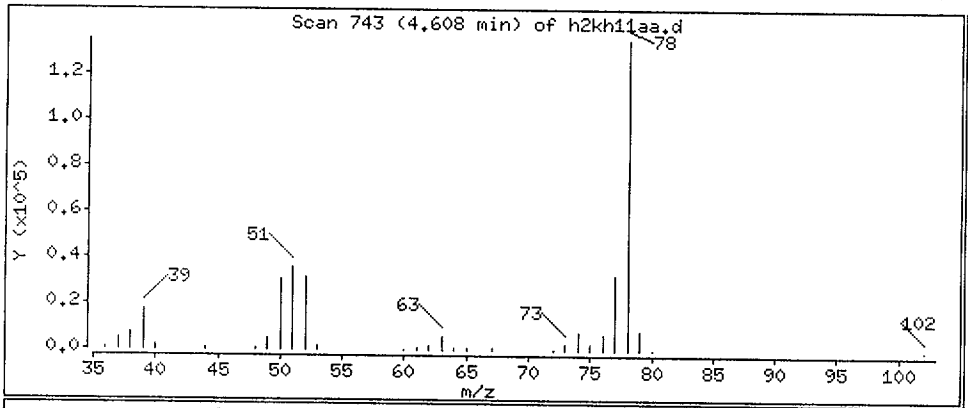
Operator: 22980

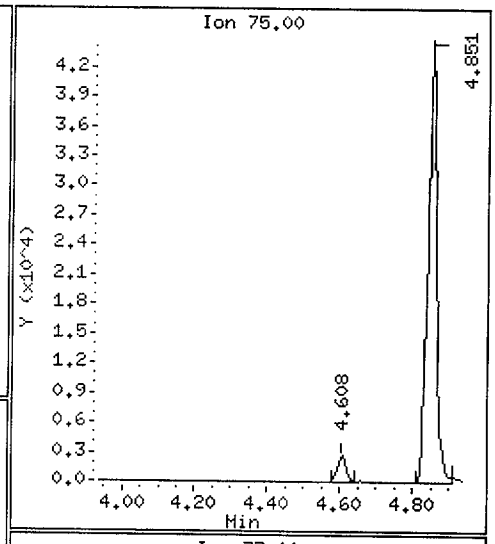
Column phase: J+W 624

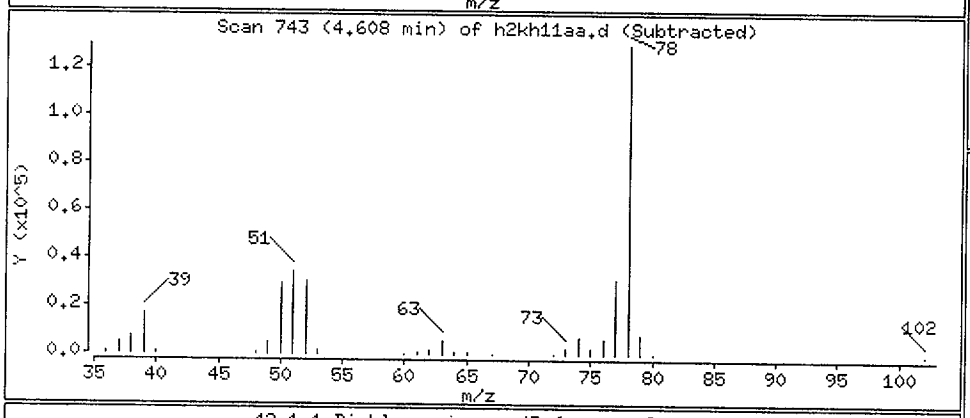
Column diameter: 0.18

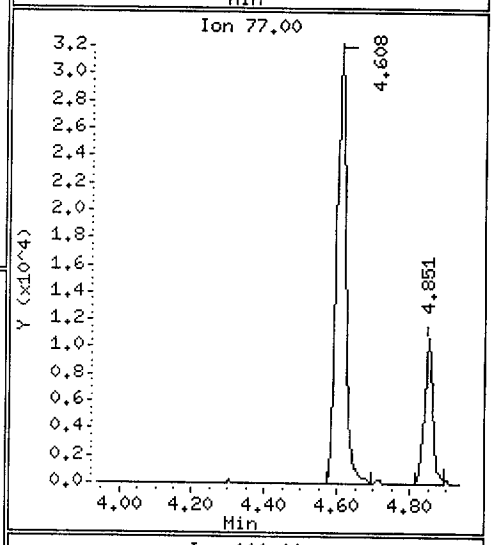
42 1,1-Dichloropropene

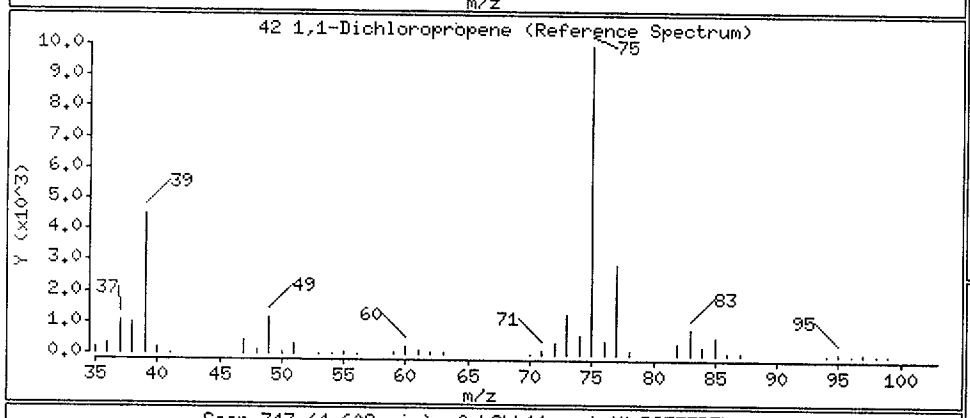
Concentration: 0.0027416 ug

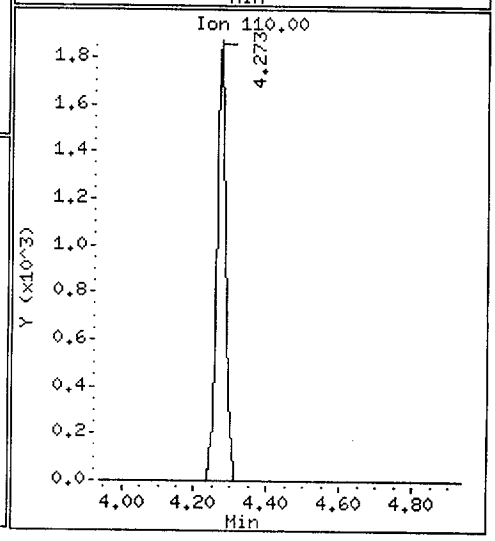


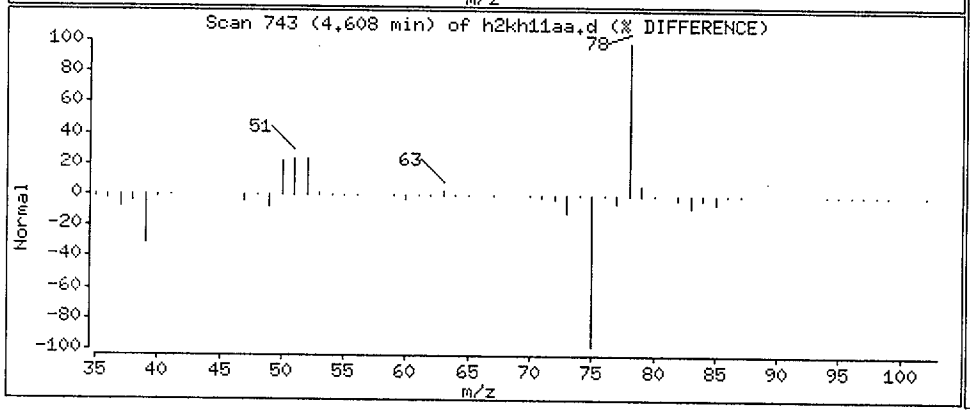












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

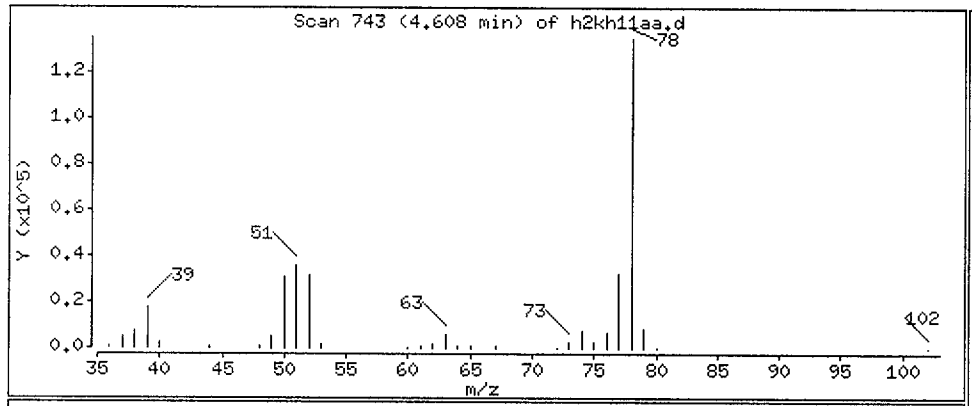
Operator: 22980

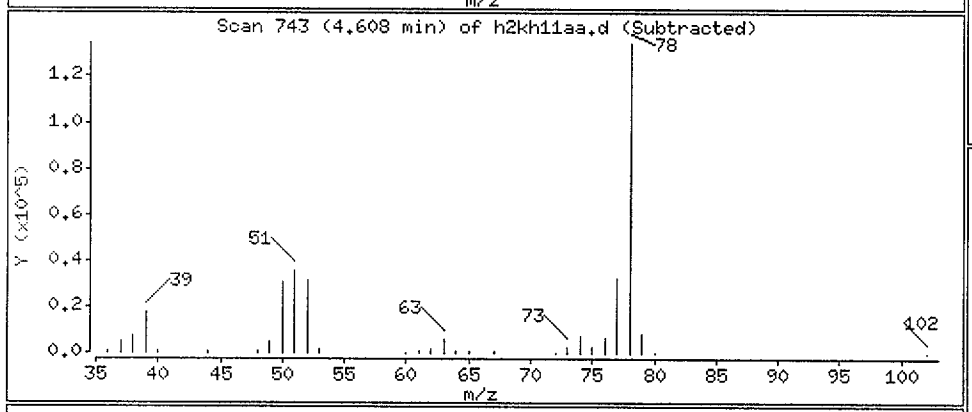
Column phase: J+W 624

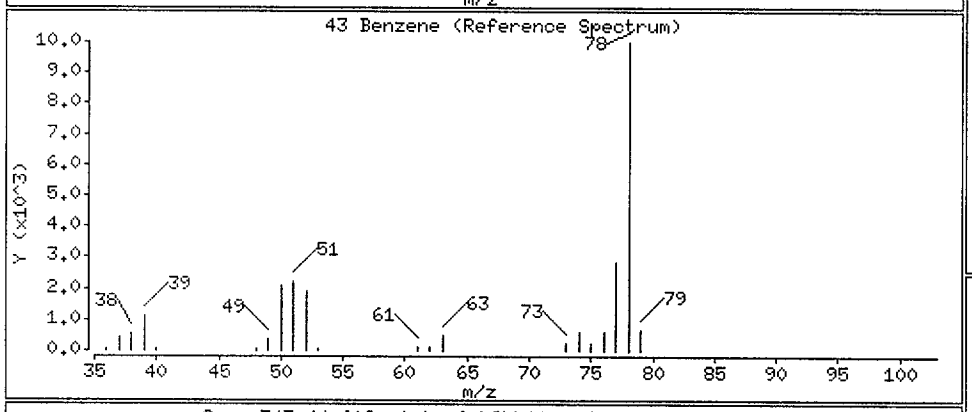
Column diameter: 0.18

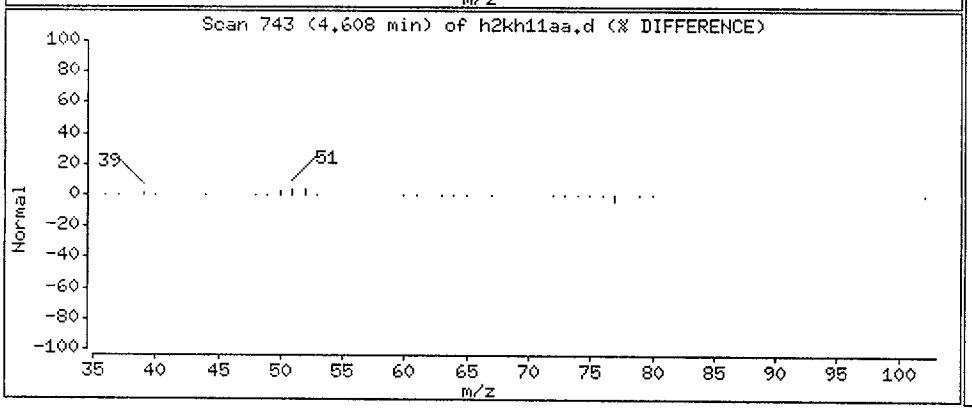
43 Benzene

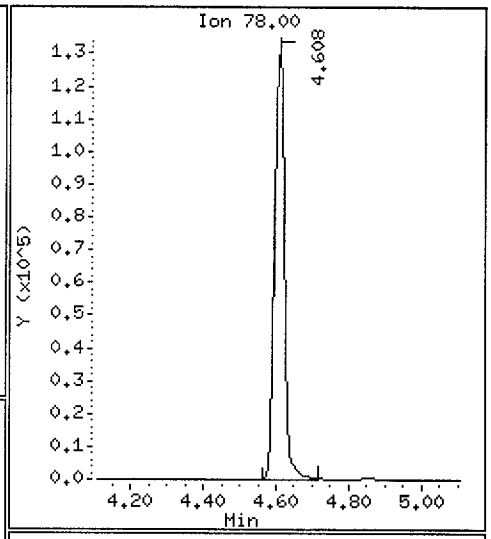
Concentration: 0.059315 ug

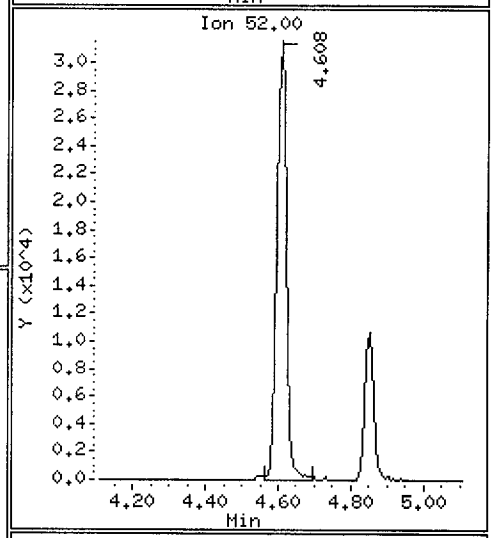


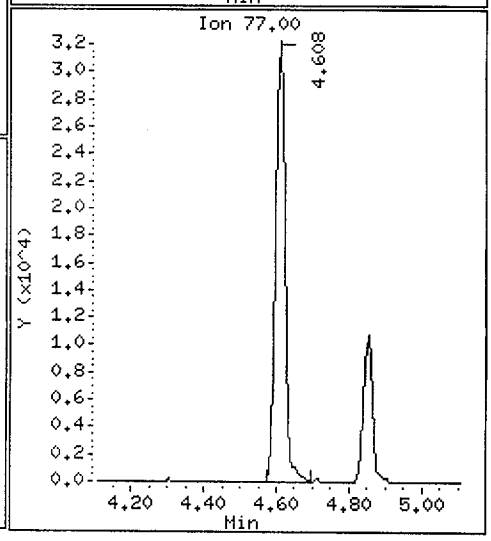












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

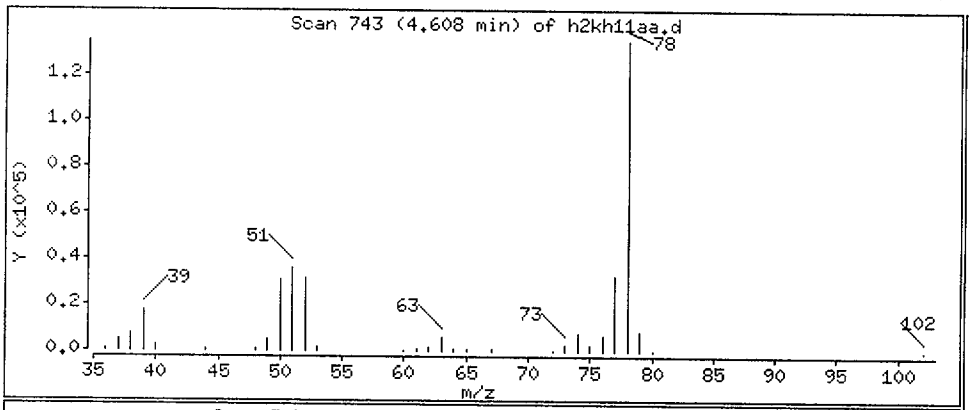
Operator: 22980

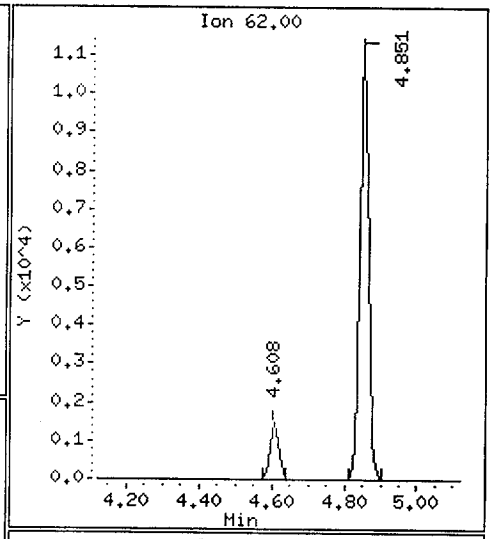
Column phase: J+W 624

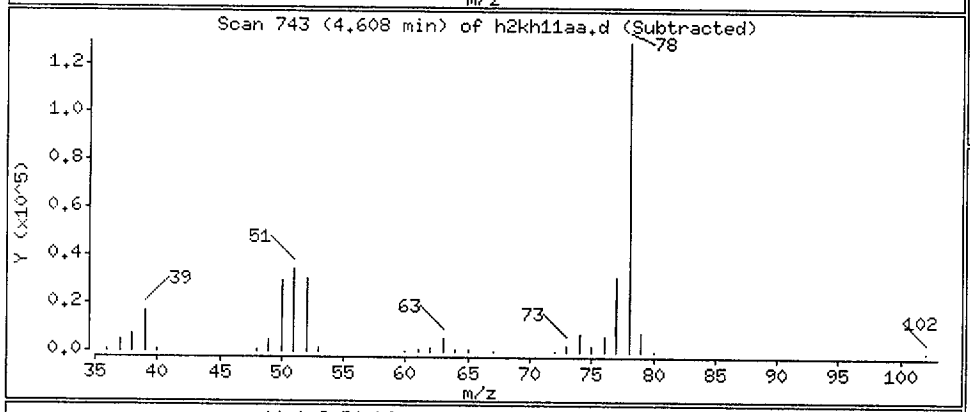
Column diameter: 0.18

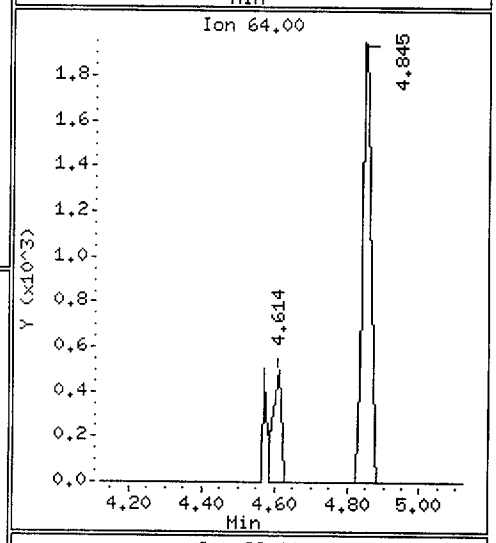
44 1,2-Dichloroethane

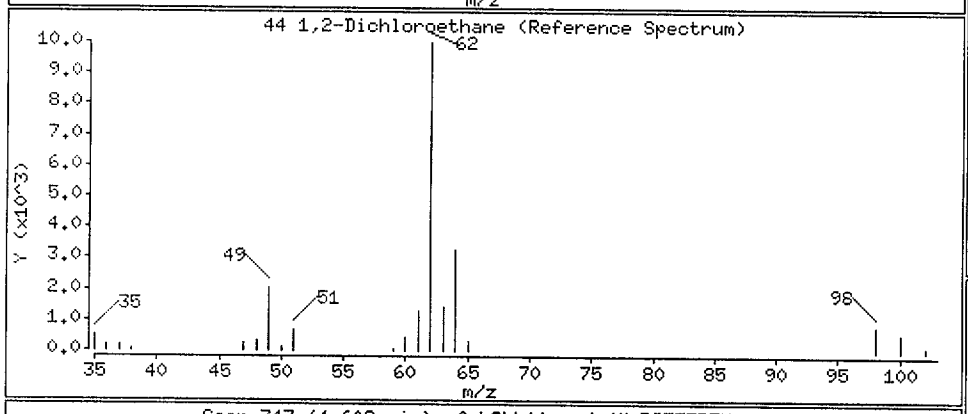
Concentration: 0.0035895 ug

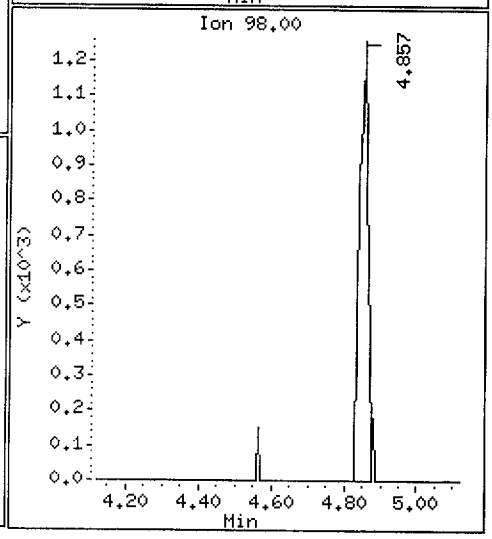


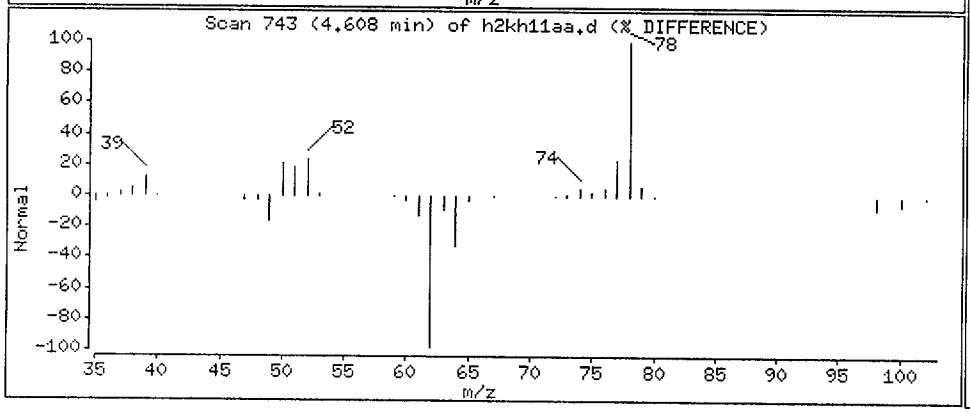












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

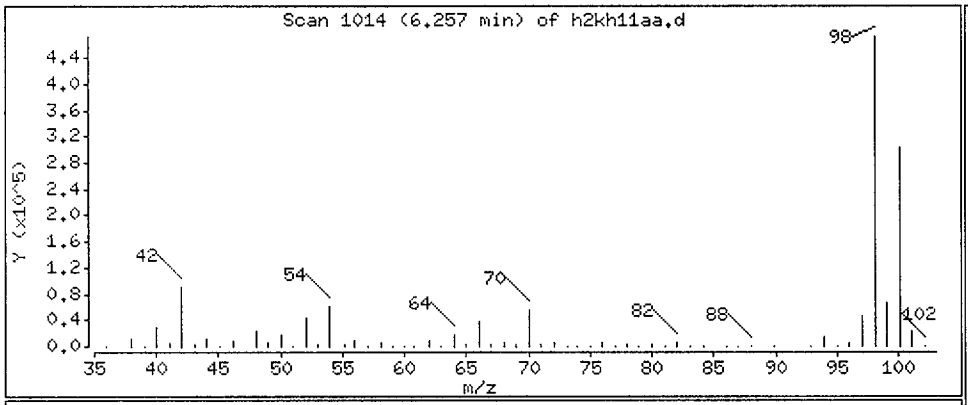
Operator: 22980

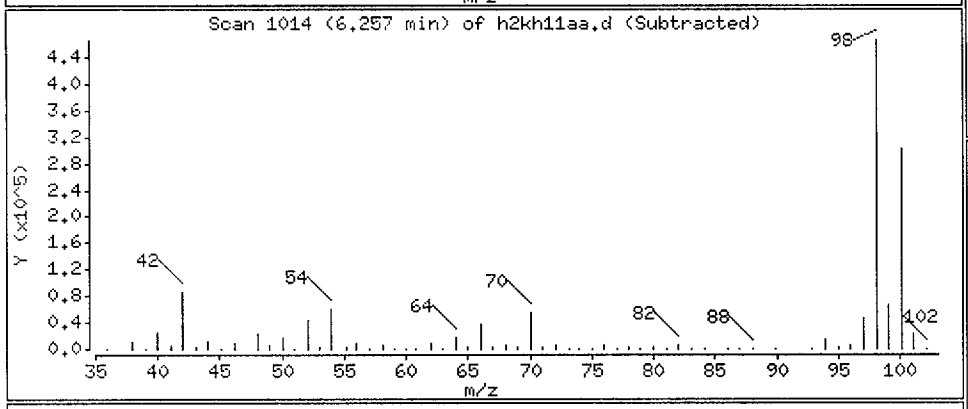
Column phase: J+W 624

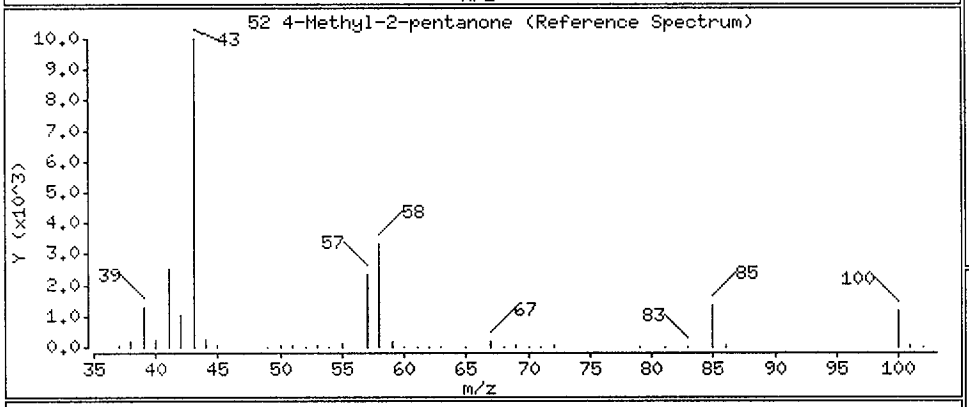
Column diameter: 0.18

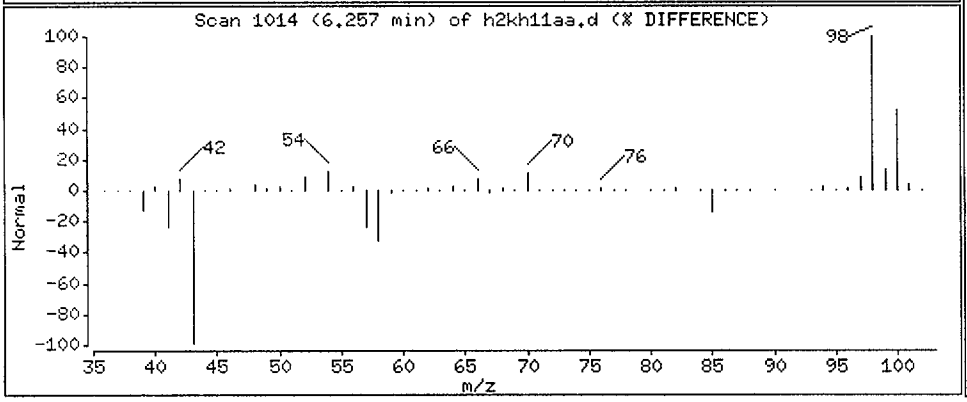
52 4-Methyl-2-pentanone

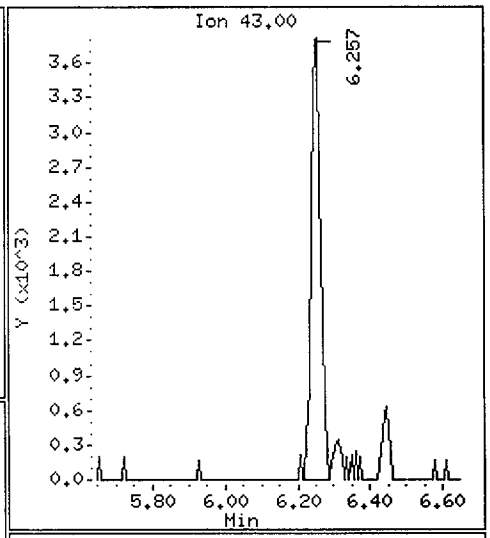
Concentration: 0.032659 ug

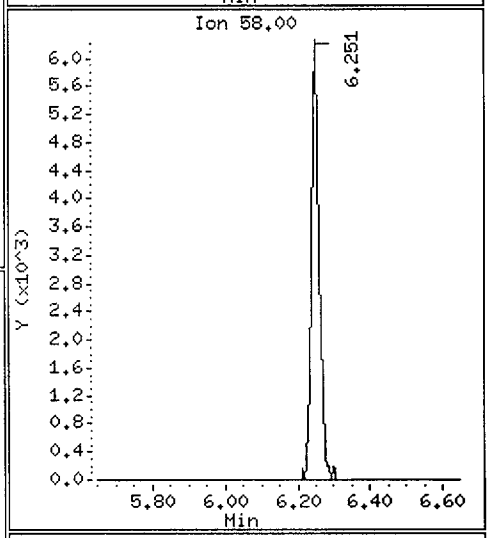


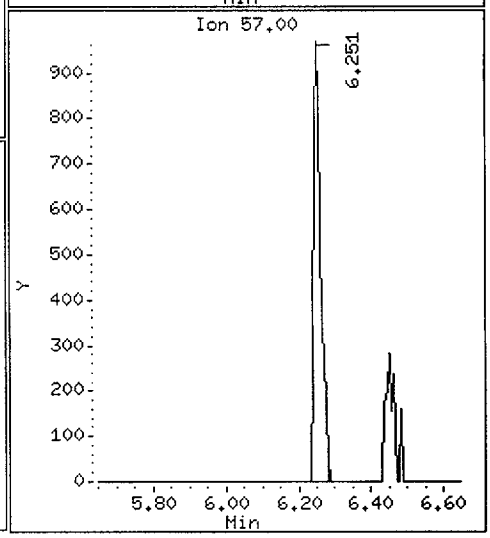












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

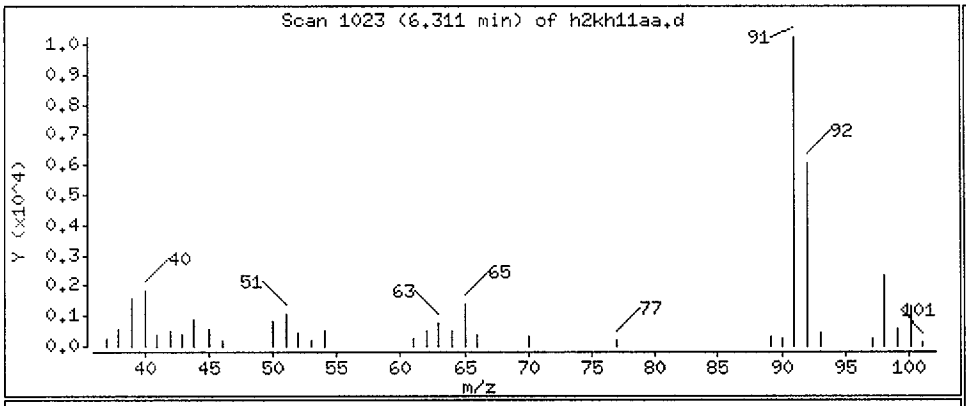
Operator: 22980

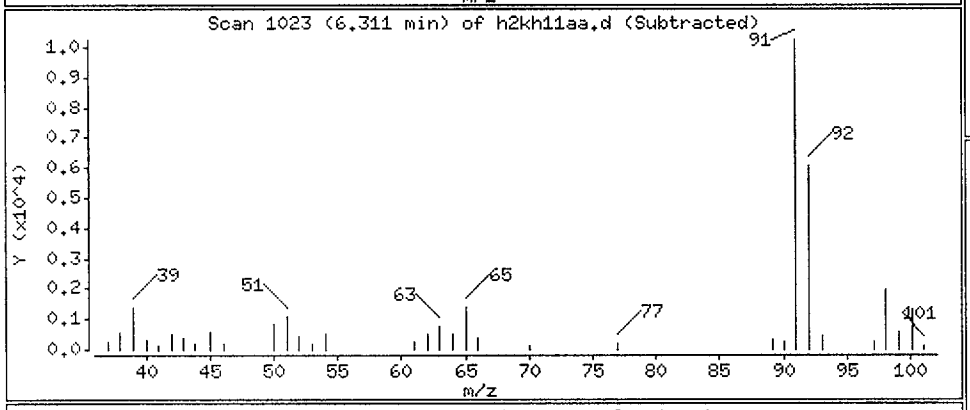
Column phase: J+W 624

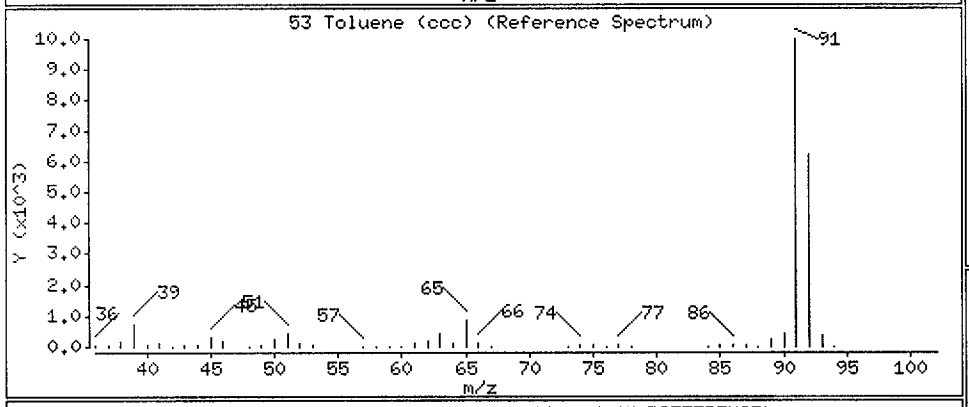
Column diameter: 0.18

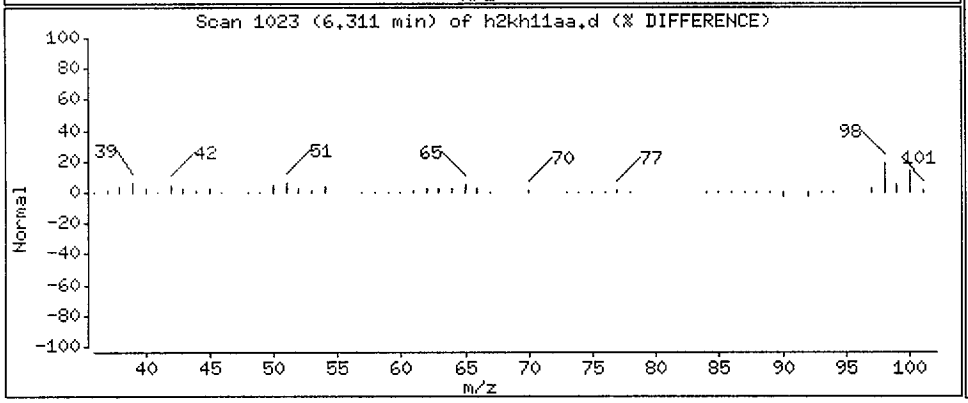
53 Toluene (ccc)

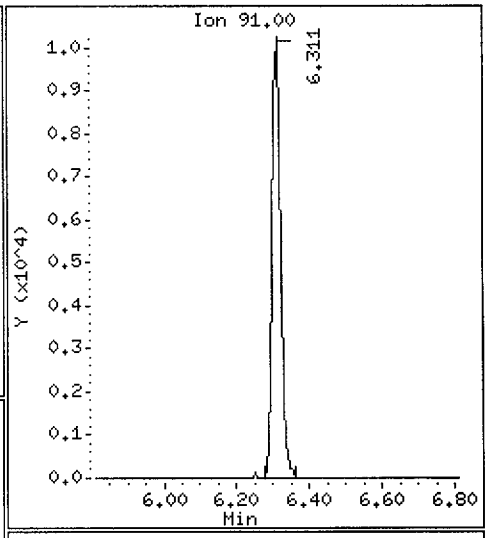
Concentration: 0.0033860 ug

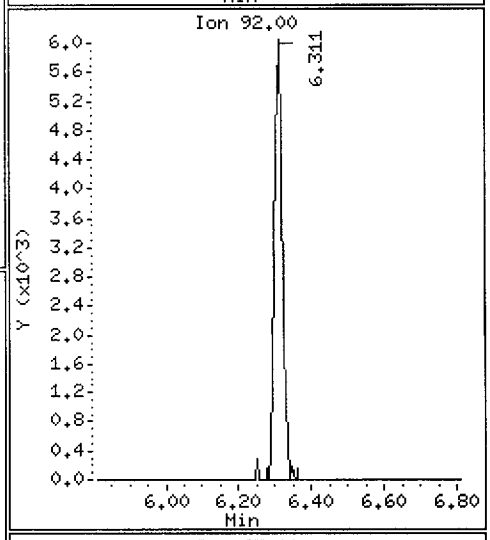


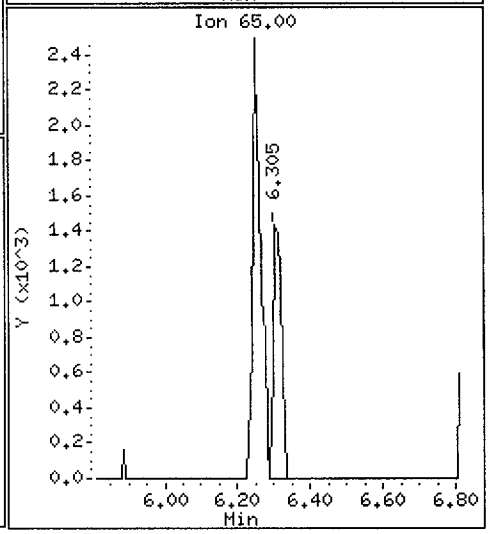












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

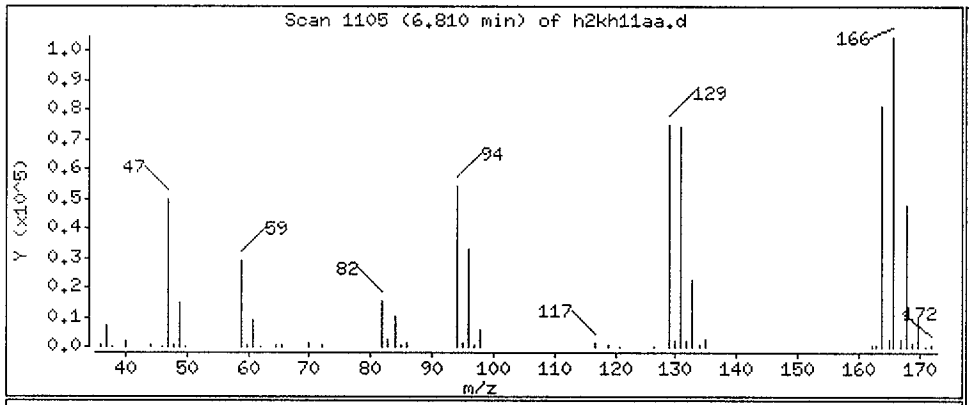
Operator: 22980

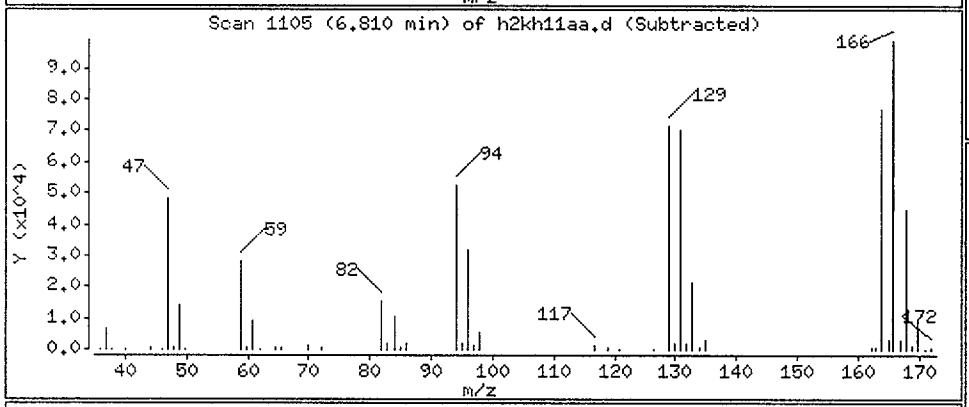
Column phase: J+W 624

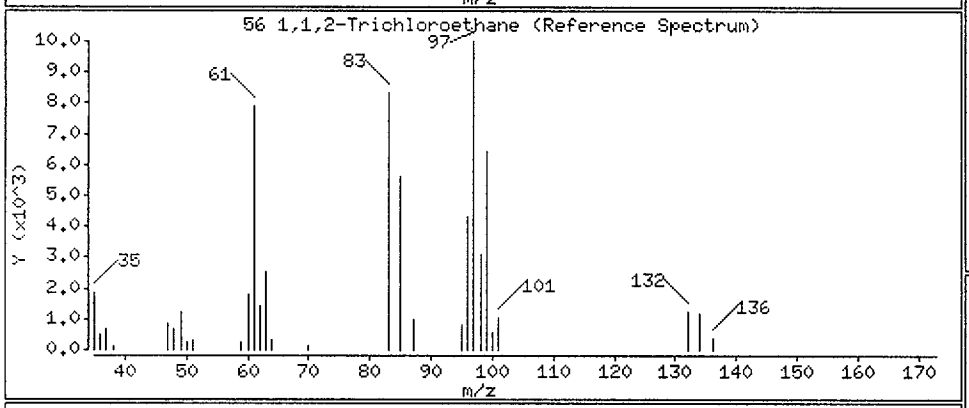
Column diameter: 0.18

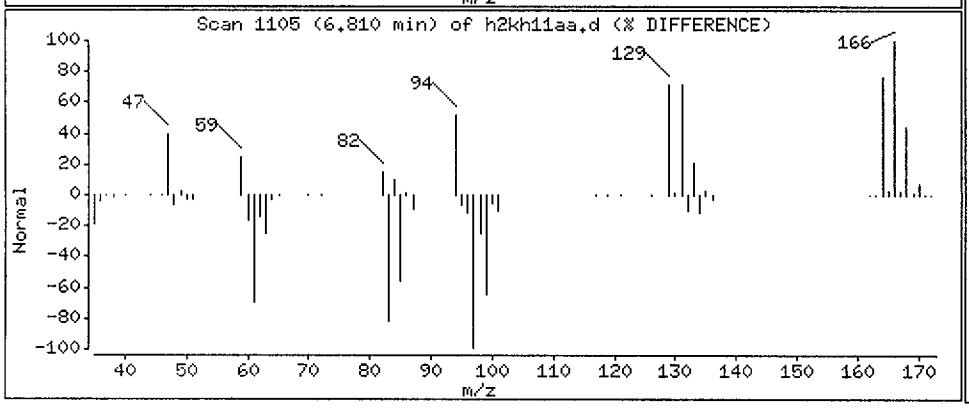
56 1,1,2-Trichloroethane

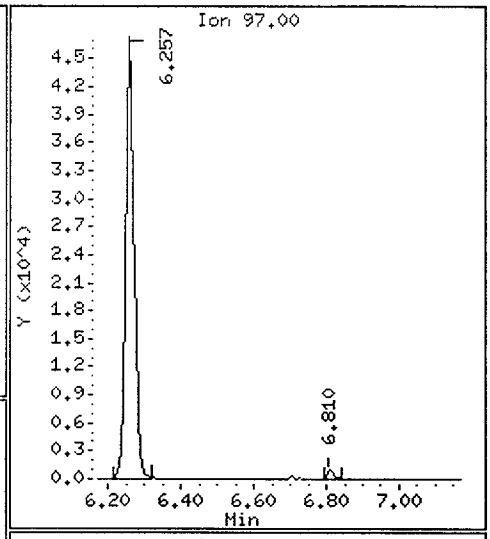
Concentration: 0.0037714 ug

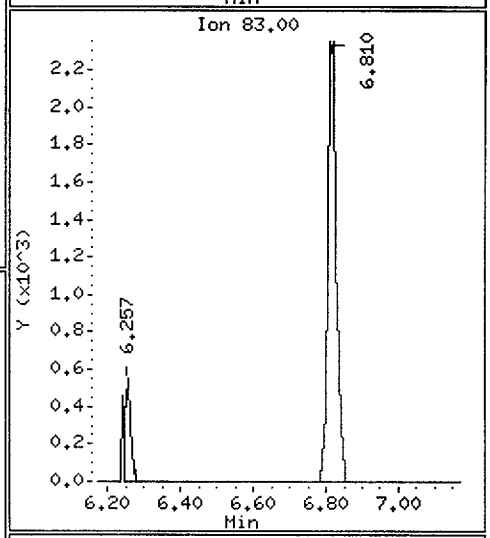


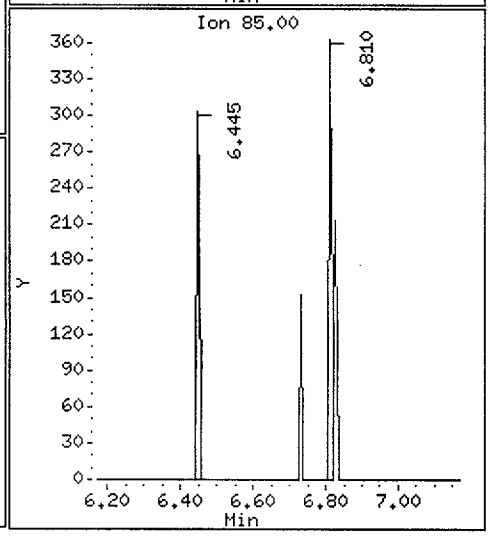












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

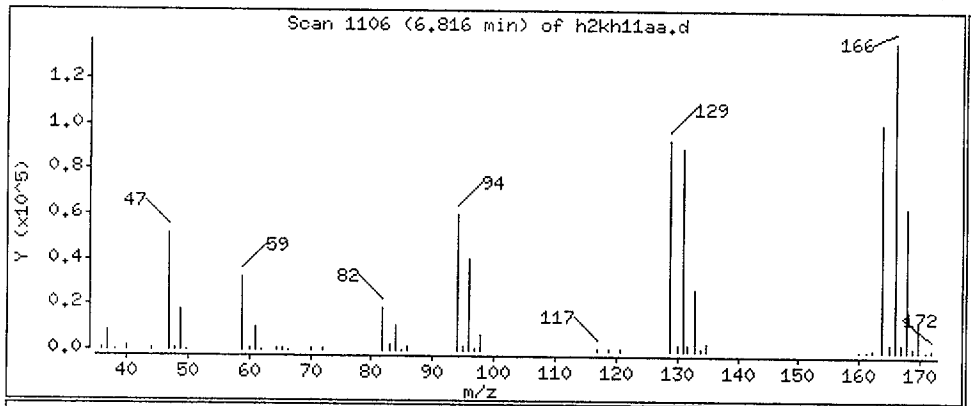
Operator: 22980

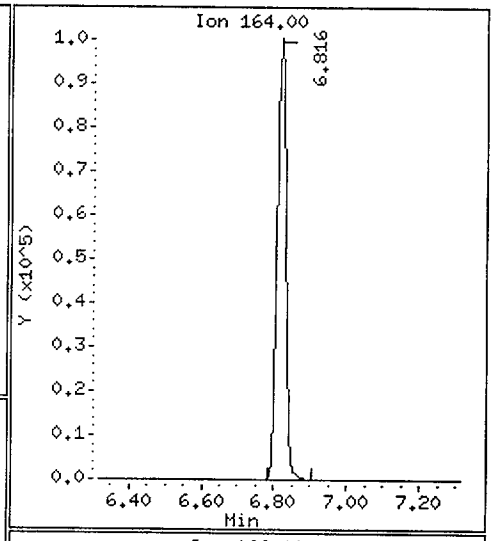
Column phase: J+W 624

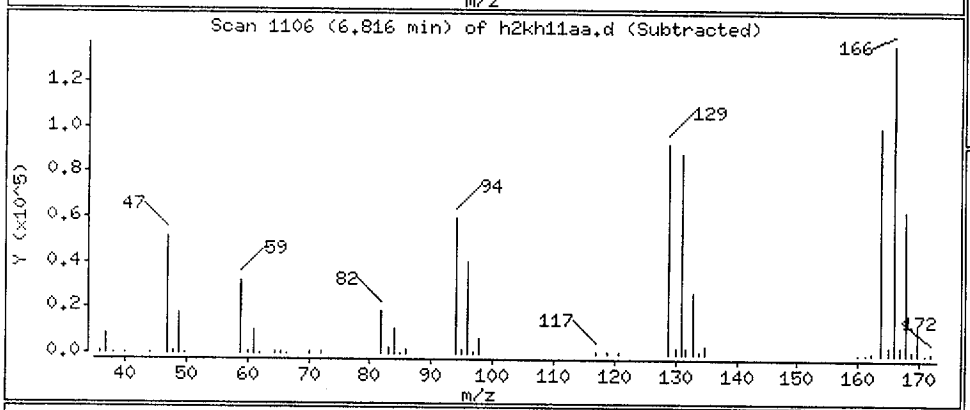
Column diameter: 0.18

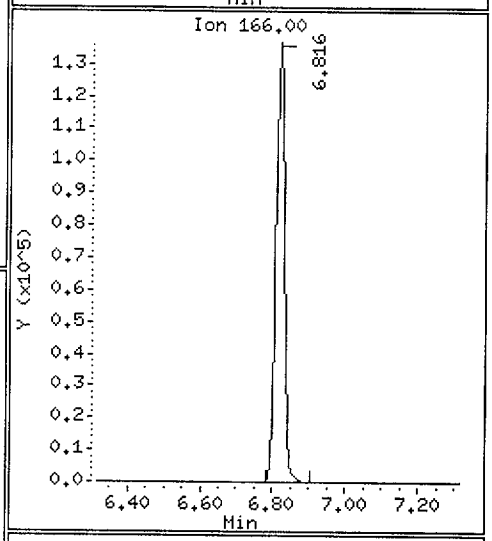
57 Tetrachloroethene

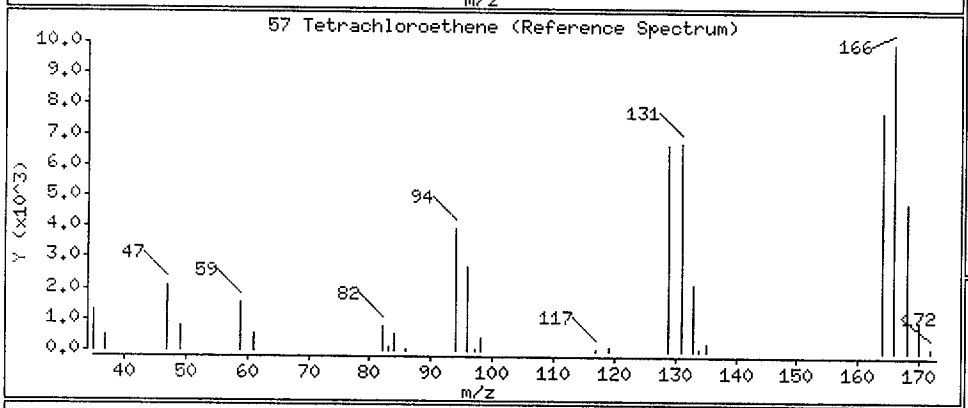
Concentration: 0.16228 ug

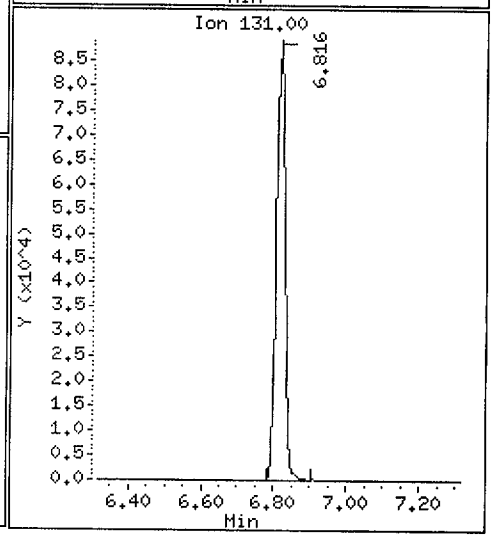


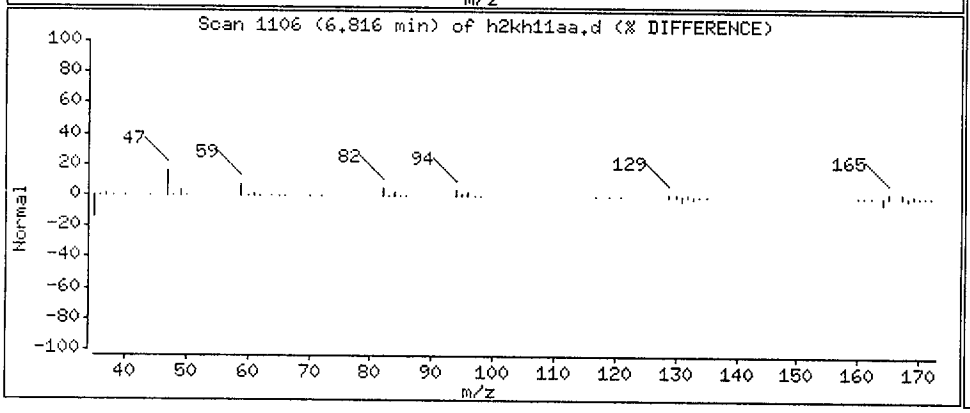












Data File: /chem/gcms/mx.i/X040706.b/h2kh11aa.d

Date : 07-APR-2006 18:01

Client ID: AUDIT VOST #6

Instrument: mx.i

Sample Info: H2KH11AA,1,0,,,

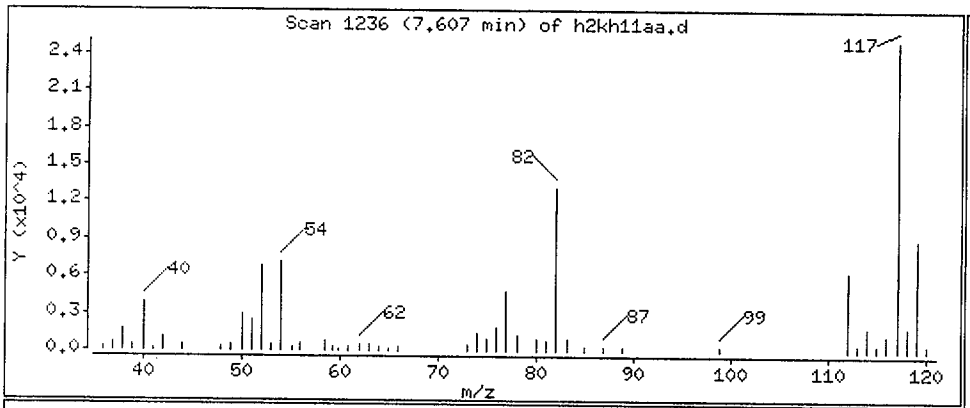
Operator: 22980

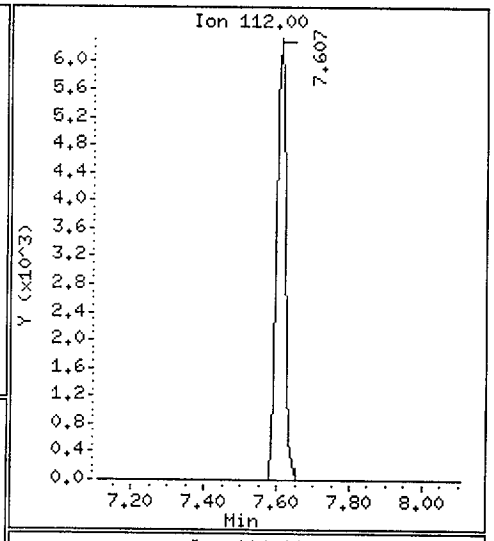
Column phase: J+W 624

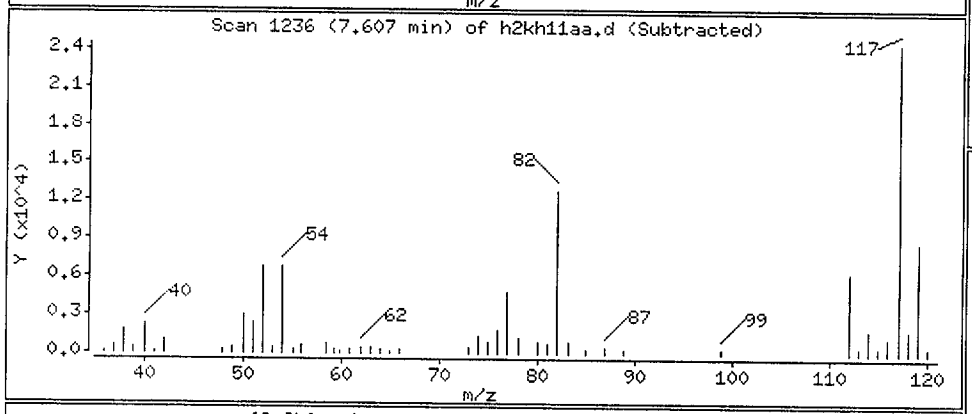
Column diameter: 0.18

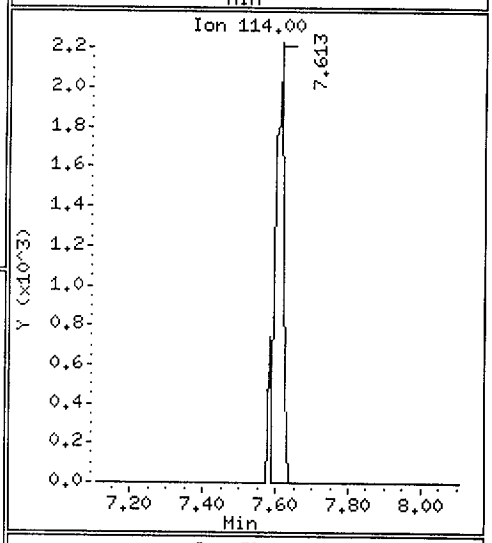
62 Chlorobenzene (spcc)

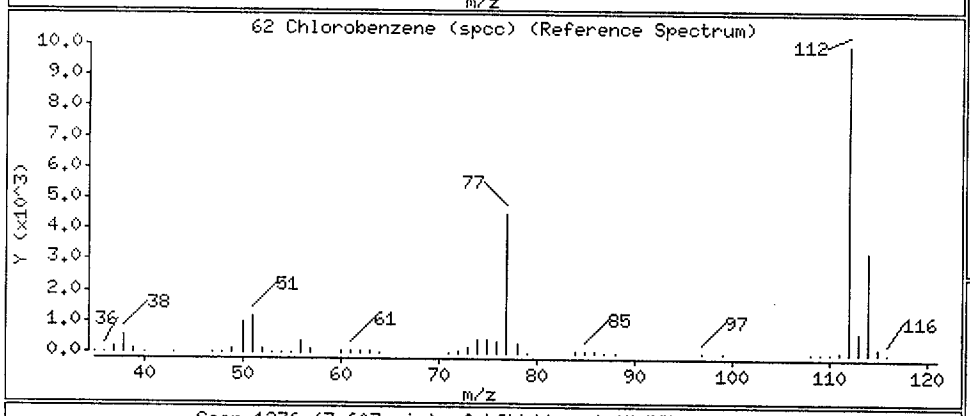
Concentration: 0.0043782 ug

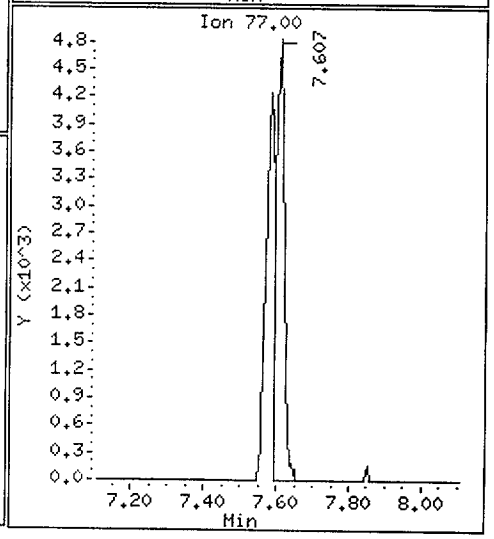


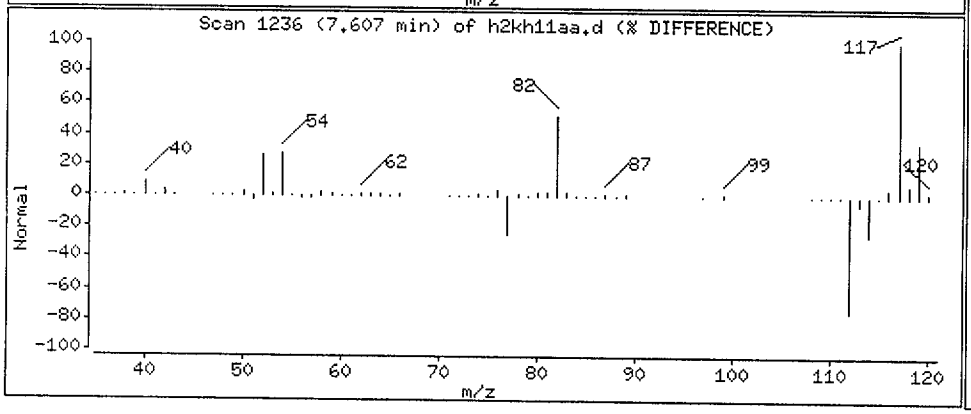












Data File: /var/chem/gcms/mx.i/X040706.b/h2kh11aa.d
Report Date: 18-Apr-2006 14:58

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2kh11aa.d
Lab Smp Id: H2KH11AA Client Smp ID: AUDIT VOST #6
Inj Date : 07-APR-2006 18:01
Operator : 22980 Inst ID: mx.i
Smp Info : H2KH11AA,1,0,,,
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 14:54 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Knoxville - ACS

Client Sample ID: A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #...: H6D030169-045 **Work Order #...:** H2KH41AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.098 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0078 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.010	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #...: H6D030169-045 **Work Order #...:** H2KH41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	102	(57 - 127)
Bromofluorobenzene	90	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #: H6D030169-045 **Work Order #:** H2KH41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Report Date: 07-Apr-2006 10:42

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Lab Smp Id: H2KH41AA Client Smp ID: A-5388 MEDIA CHECK
Inj Date : 07-APR-2006 10:24
Operator : 22980 Inst ID: mz.i
Smp Info : H2KH41AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.669	5.676	(1.000)	782893	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	169789	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	229767	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.852)	142835	11.3860	0.28465
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.924)	110445	10.1812	0.25453
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	760459	10.1935	0.25484
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	207555	8.95714	0.22393
15 Bromomethane	94	1.405	1.418	(0.248)	1365	0.99781	0.024945 - See reprint for (M)
22 Acetone	43	2.129	2.123	(0.375)	3185	3.92873	0.098218
23 *Iodomethane	142	2.196	2.184	(0.387)	438	0.54369	0.013592
27 Methylene Chloride	84	2.506	2.513	(0.442)	1514	0.11563	0.0028908
34 *Vinyl Acetate	86	3.145	3.407	(0.555)	435	0.41683	~~0.010421~~
39 *THF	42	4.550	4.532	(0.803)	2041	1.09900	0.027475
44 Benzene	78	5.298	5.305	(0.935)	24194	0.31338	0.0078344
45 1,2-Dichloroethane	62	5.669	5.335	(1.000)	8355	0.51108	~~0.012777~~
53 4-Methyl-2-pentanone	43	7.458	7.386	(1.315)	6153	0.90011	~~0.022503~~

JWW 4-14-06

Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Report Date: 07-Apr-2006 10:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
54 Toluene (ccc)	91	7.531	7.532	(0.843)	7659	0.07927	0.0019818
55 trans-1,3-Dichloropropene	75	7.470	7.793	(0.836)	181	0.63703	0.~~015926~~
69 Bromoform (spcc)	173	10.134	9.782	(1.134)	472	0.97554	~~0.024388~~
85 1,4-Dichlorobenzene	146	11.509	11.528	(1.002)	1502	0.04016	0.0010039
92 1,2,3-Trichlorobenzene	180	14.825	14.820	(1.290)	1423	0.12013	0.0030032

JW 4-14-06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Report Date: 14-Apr-2006 16:56

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Lab Smp Id: H2KH41AA Client Smp ID: A-5388 MEDIA CHECK
Inj Date : 07-APR-2006 10:24
Operator : 22980 Inst ID: mz.i
Smp Info : H2KH41AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.669	5.676	(1.000)	782893	10.0000	
* 2 Chlorobenzene-d5	119	8.936	8.937	(1.000)	169789	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.491	11.492	(1.000)	229767	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.831	(0.852)	142835	11.3860	0.28465
$ 5 1,2-Dichloroethane-d4	65	5.237	5.238	(0.924)	110445	10.1811	0.25453
$ 6 Toluene-d8	98	7.464	7.465	(0.835)	760459	10.1935	0.25484
$ 7 4-Bromofluorobenzene	95	10.128	10.129	(0.881)	207555	8.95712	0.22393
15 Bromomethane	94	1.405	1.418	(0.248)	1710	1.03902	0.025976(M)
22 Acetone	43	2.129	2.123	(0.375)	3185	3.92857	0.098214
23 *Iodomethane	142	2.196	2.184	(0.387)	438	0.54368	0.013592
27 Methylene Chloride	84	2.506	2.513	(0.442)	1514	0.11563	0.0028908
39 *THF	42	4.550	4.532	(0.803)	2041	1.09877	0.027469
44 Benzene	78	5.298	5.305	(0.935)	24194	0.31337	0.0078343
54 Toluene (ccc)	91	7.531	7.532	(0.843)	7659	0.07926	0.0019816
69 Bromoform (spcc)	173	10.134	9.782	(1.134)	472	0.97541	0.024385
85 1,4-Dichlorobenzene	146	11.509	11.528	(1.002)	1502	0.04015	0.0010037

Data File: /var/chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Report Date: 14-Apr-2006 16:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
92 1,2,3-Trichlorobenzene	180	14.825	14.820	(1.290)	1423	0.12011	0.0030029

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Report Date: 07-Apr-2006 10:42

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2kh41aa.d
Lab Smp Id: H2KH41AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: A-5388 MEDIA CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	782893	-17.81
2 Chlorobenzene-d5	164101	82050	328202	169789	3.47
3 1,4 Dichlorobenze	204390	102195	408780	229767	12.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.12
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Report Date: 07-Apr-2006 10:42

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H2KH41AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D030169
Fraction: VOA
Client Smp ID: A-5388 MEDIA CHECK
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

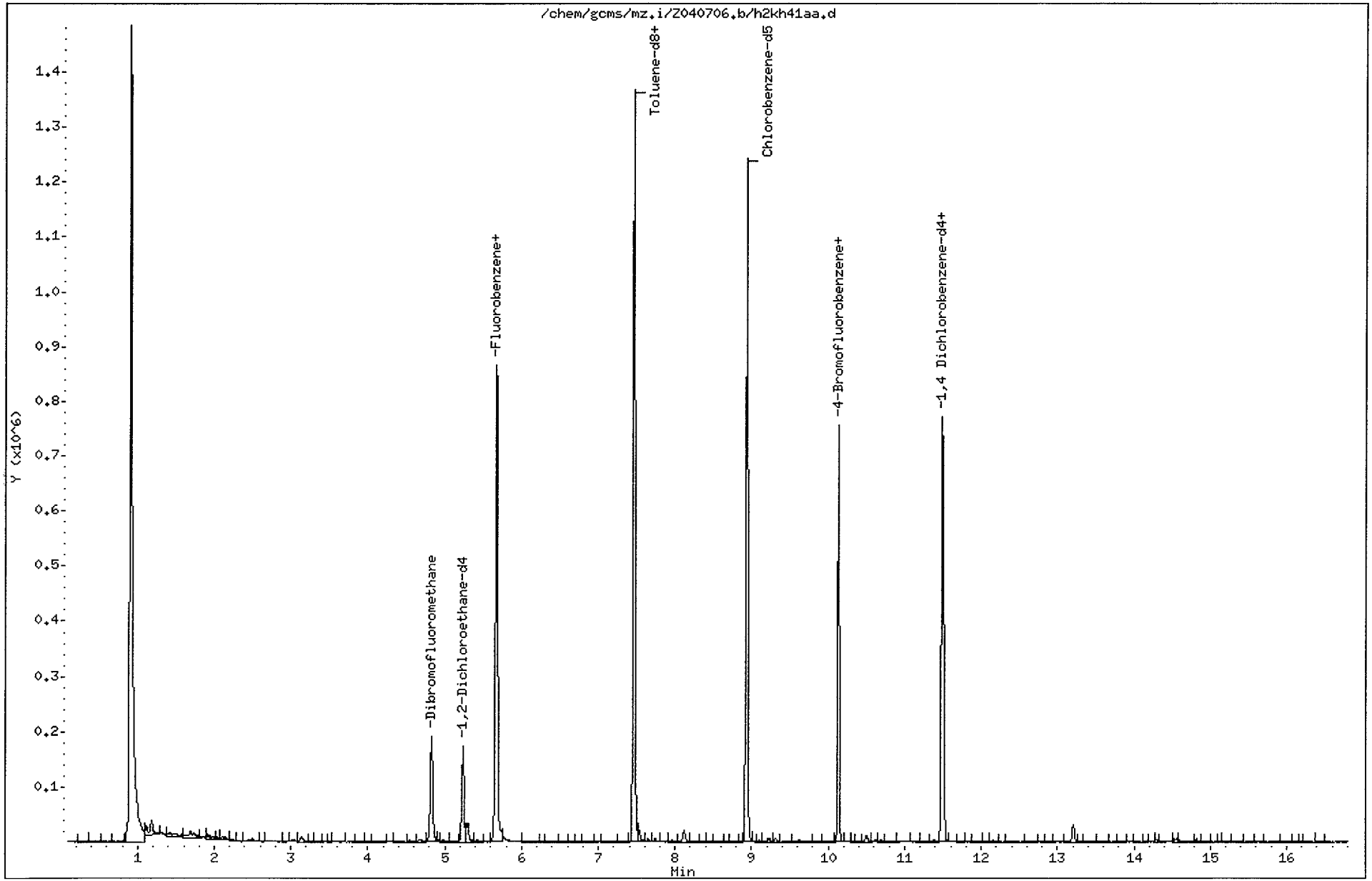
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.28465	113.86	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25453	101.81	50-150
$ 6 Toluene-d8	0.25000	0.25484	101.93	50-150
$ 7 4-Bromofluorobenze	0.25000	0.22393	89.57	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Date : 07-APR-2006 10:24
Client ID: A-5388 MEDIA CHECK
Sample Info: H2KH41AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

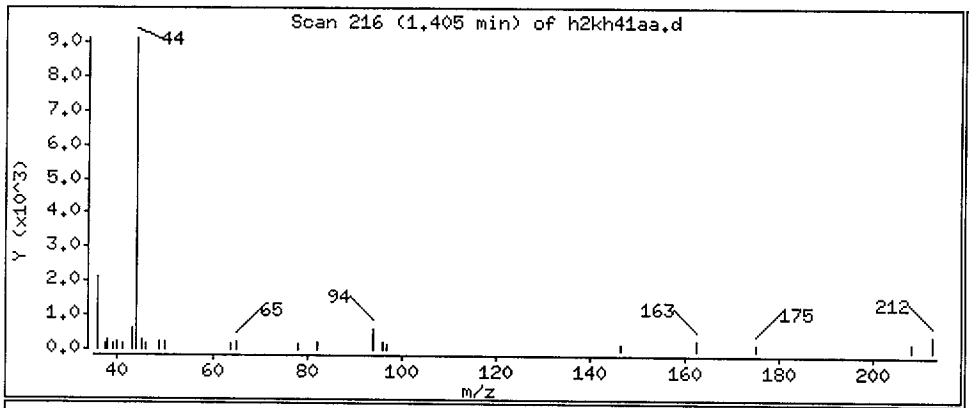
Operator: 22980

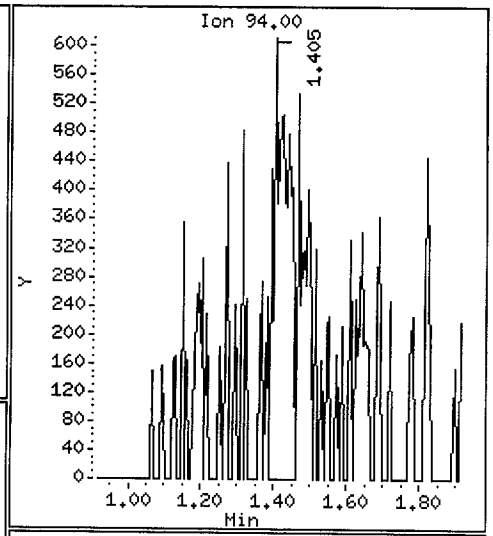
Column phase: J+W 624

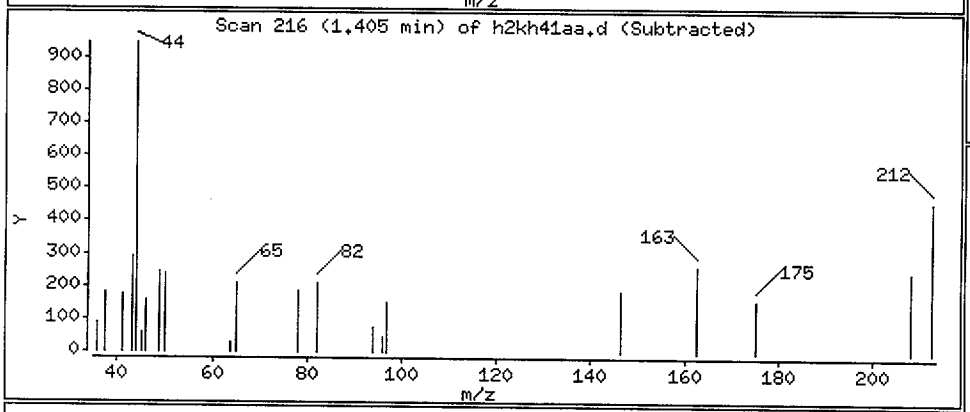
Column diameter: 0.18

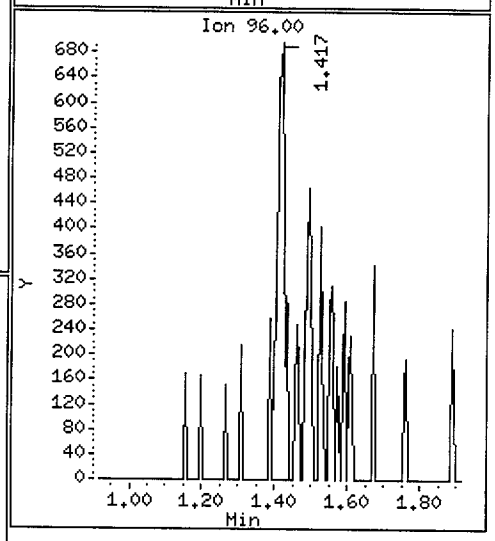
15 Bromomethane

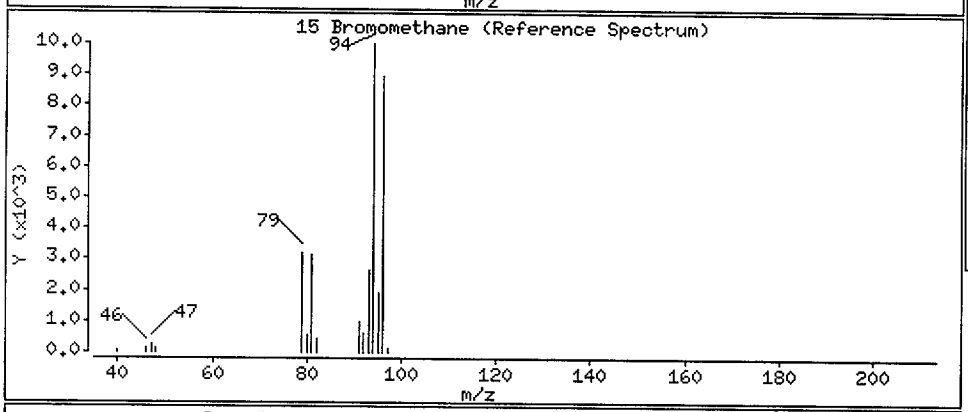
Concentration: 0.025976 ug

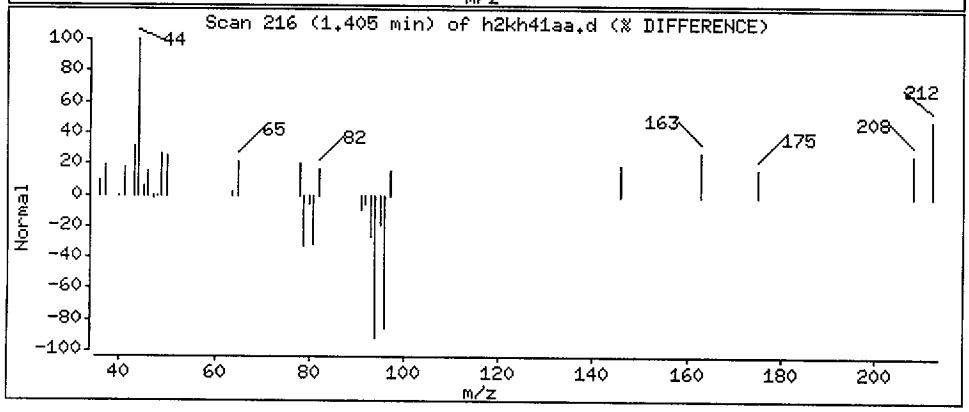












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

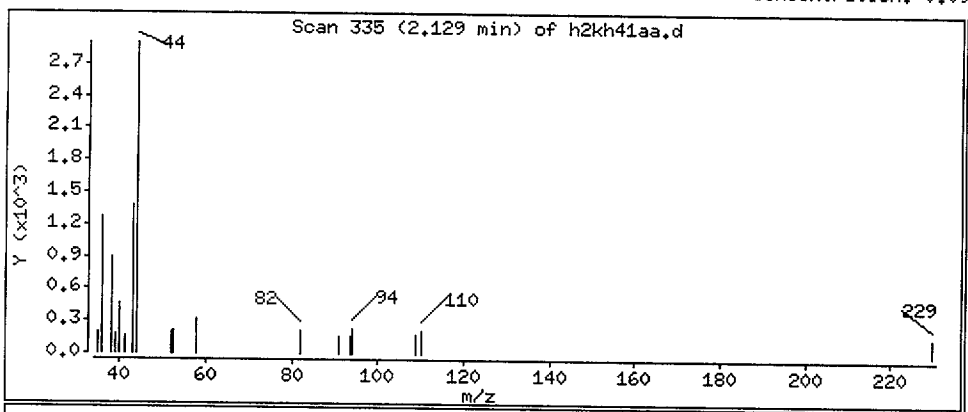
Operator: 22980

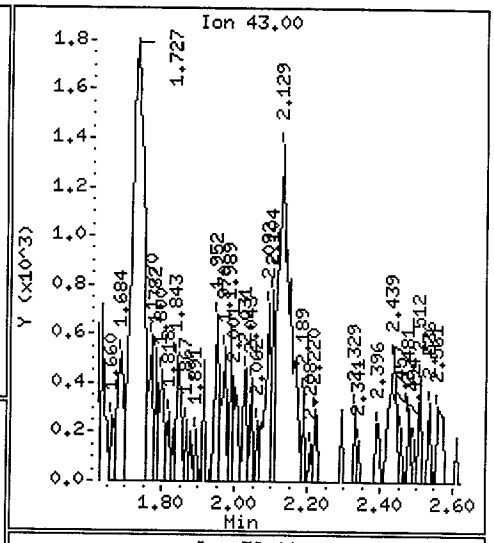
Column phase: J+W 624

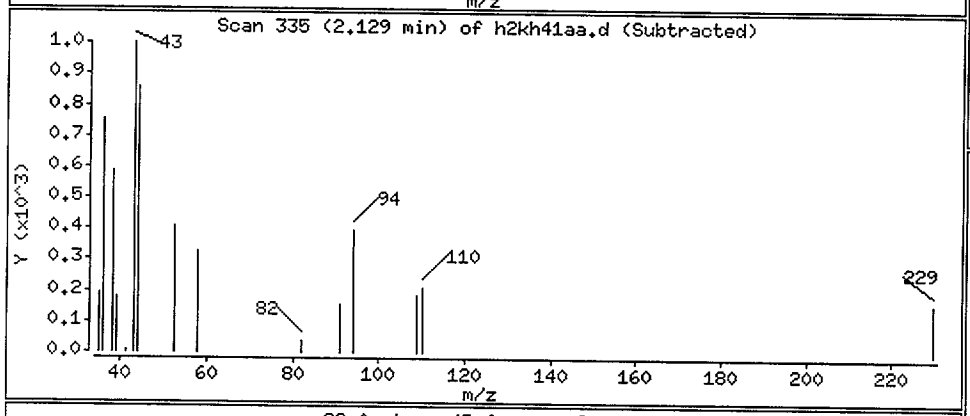
Column diameter: 0.18

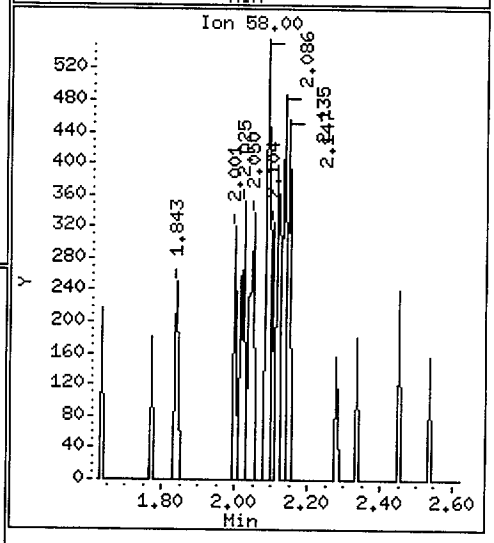
22 Acetone

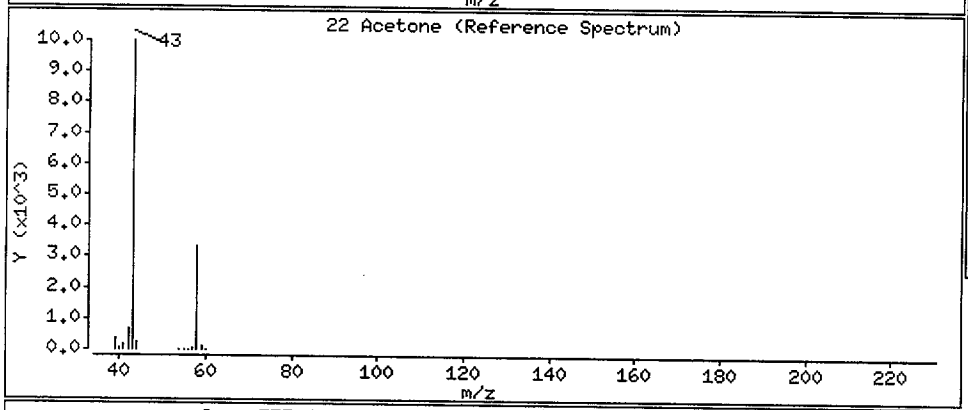
Concentration: 0.098218 ug

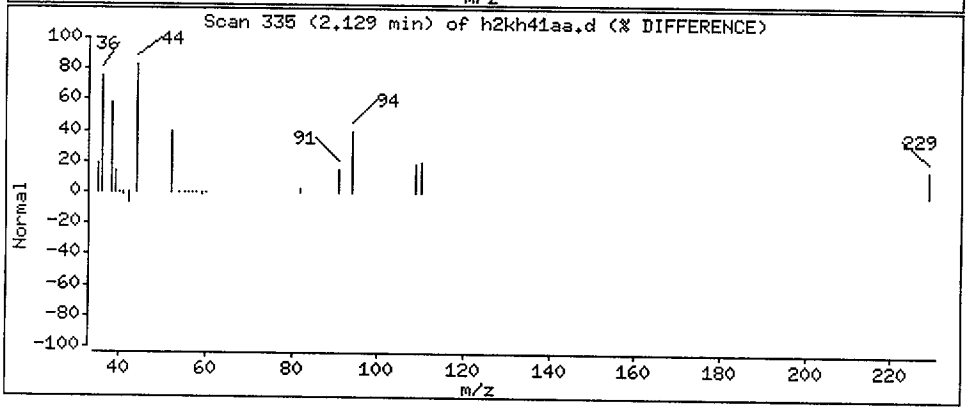












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

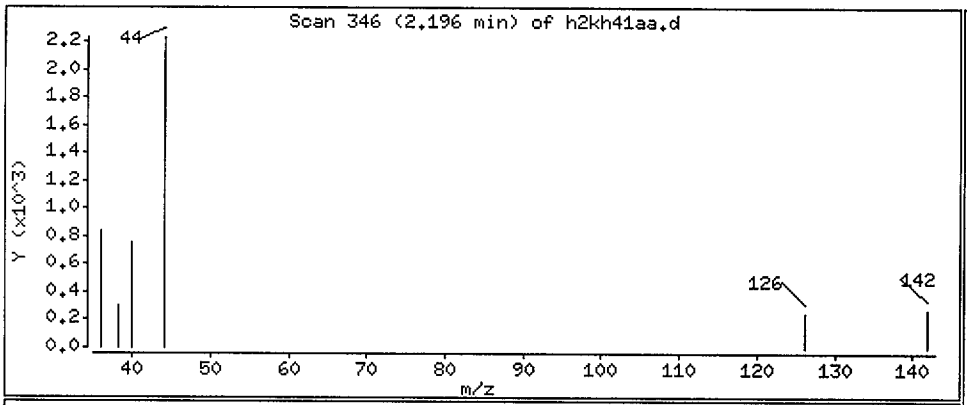
Operator: 22980

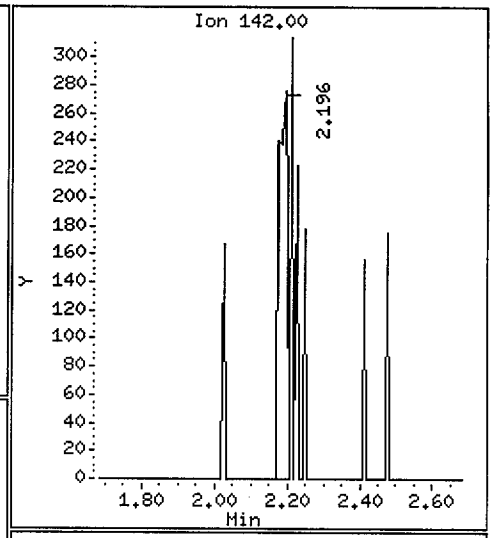
Column phase: J+W 624

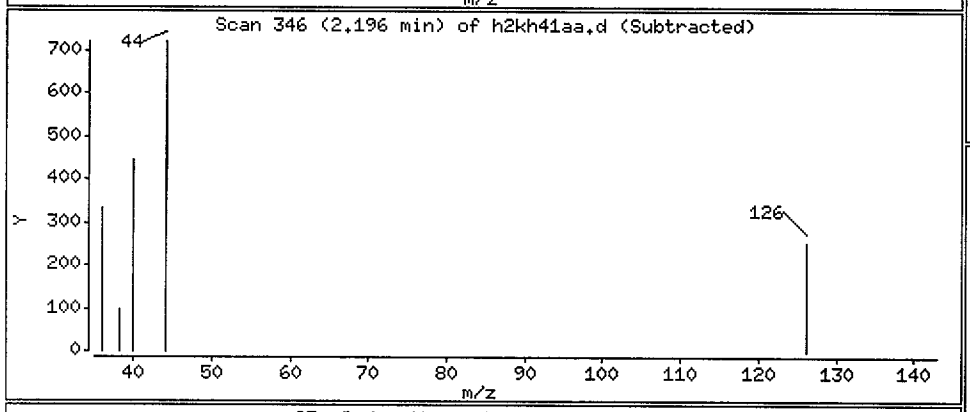
Column diameter: 0.18

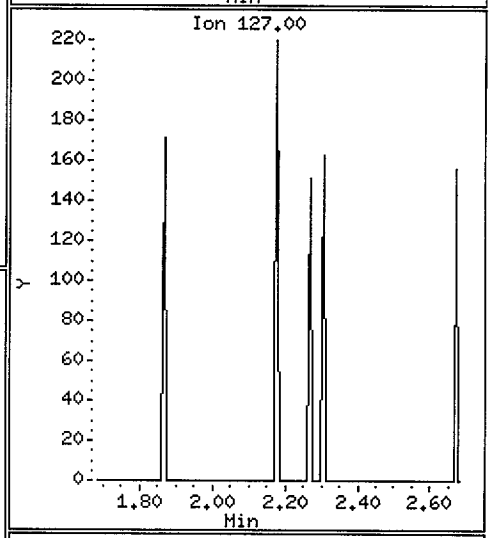
23 *Iodomethane

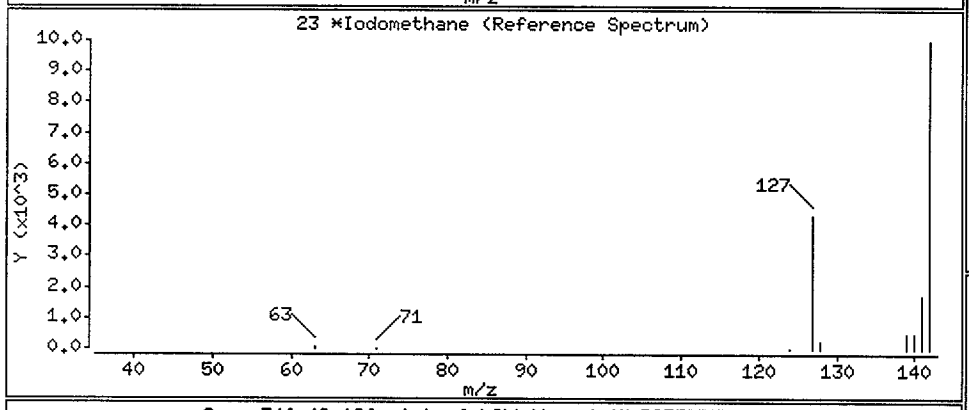
Concentration: 0.013592 ug

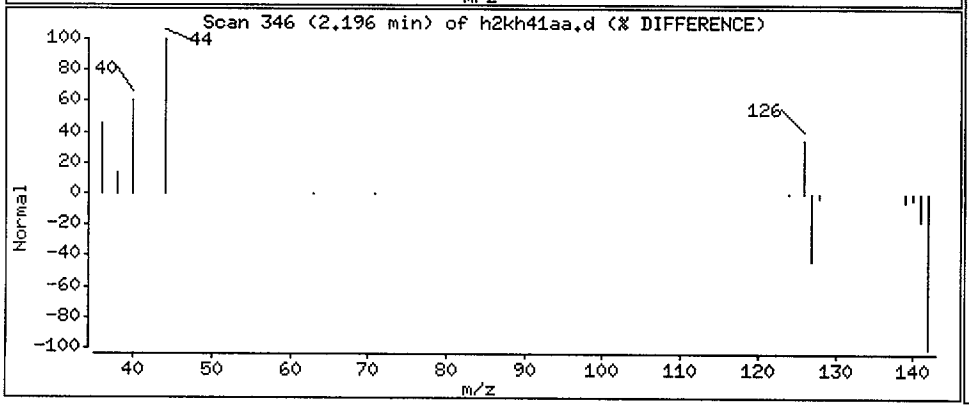


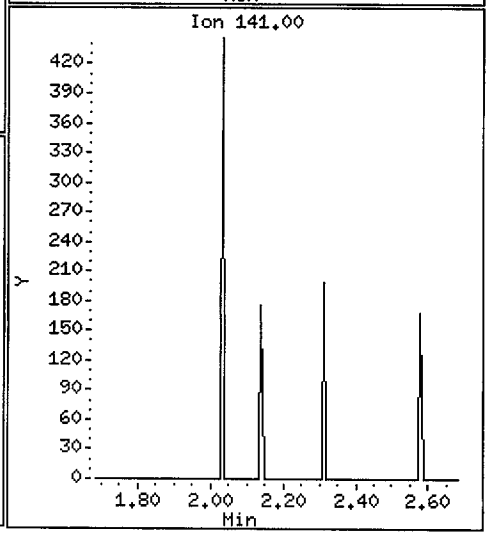












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

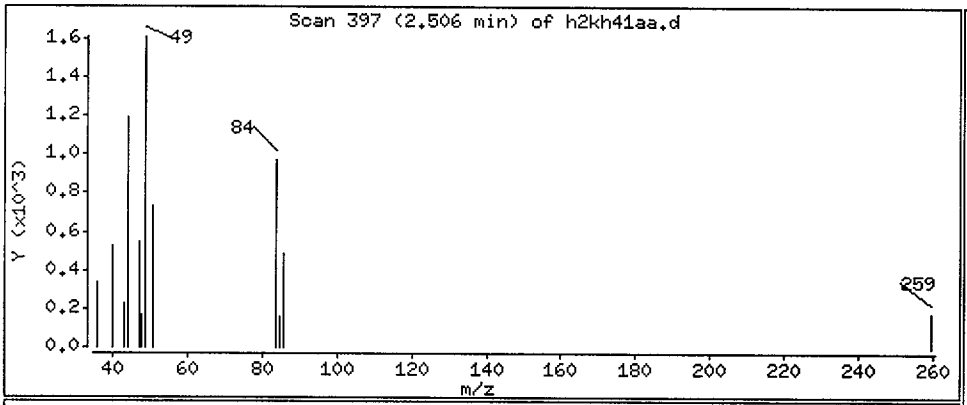
Operator: 22980

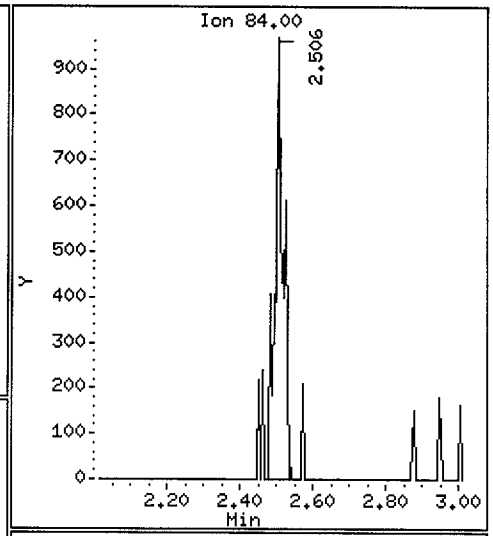
Column phase: J+W 624

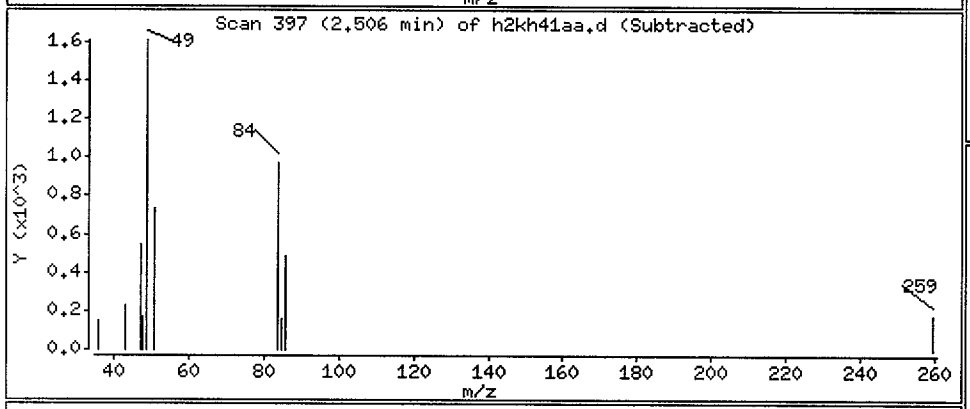
Column diameter: 0.18

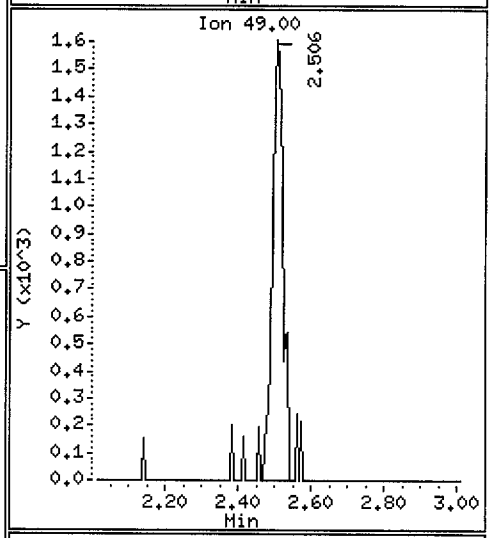
27 Methylene Chloride

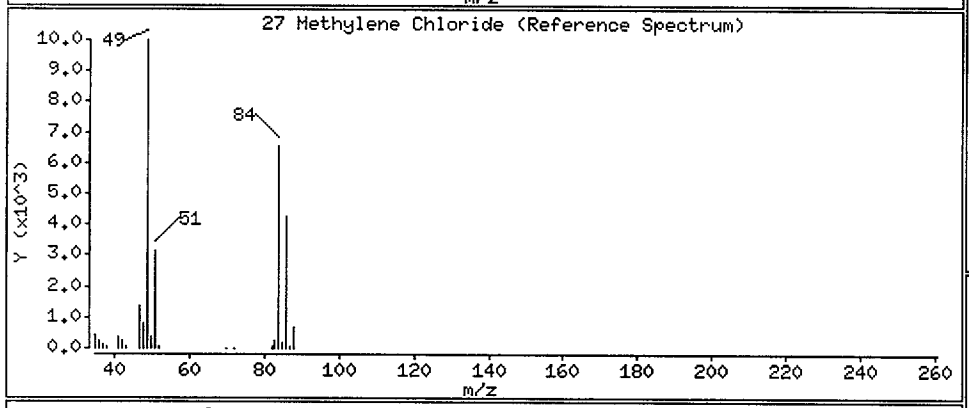
Concentration: 0.0028908 ug

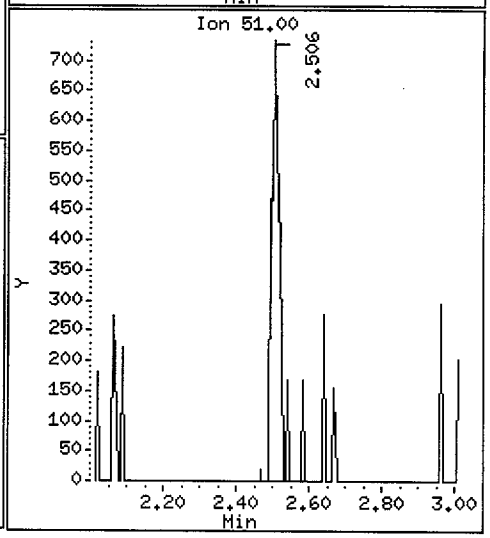


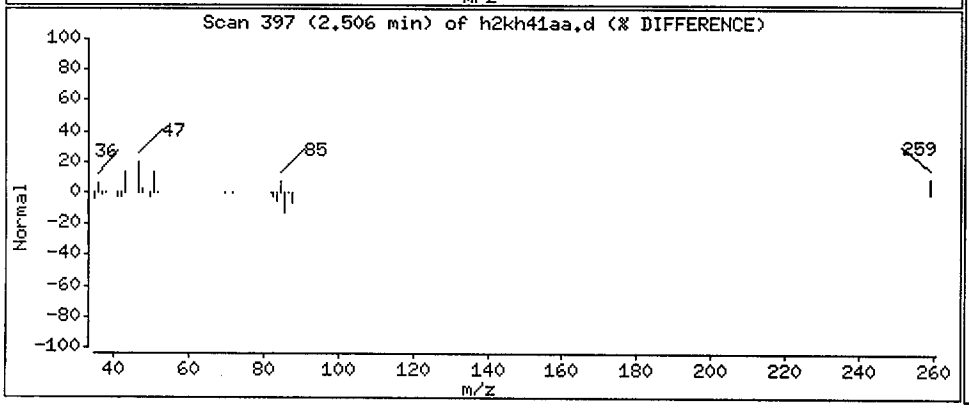












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

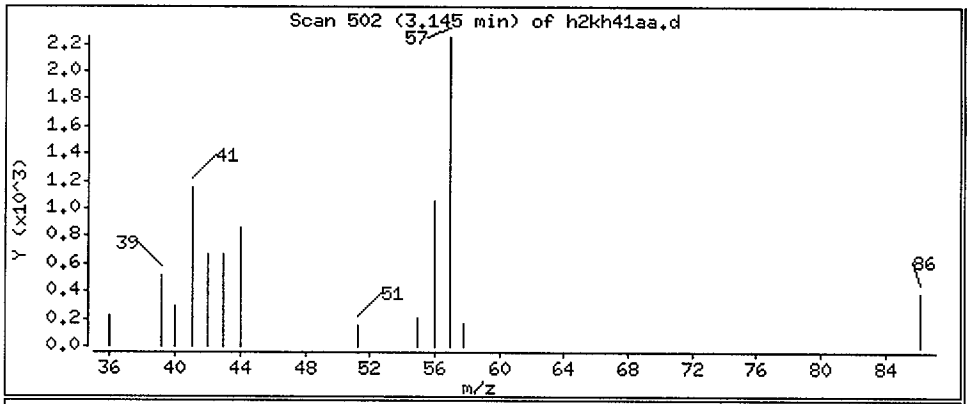
Operator: 22980

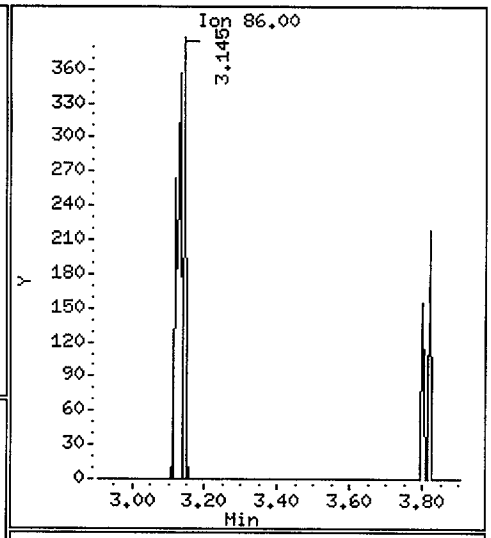
Column phase: J+W 624

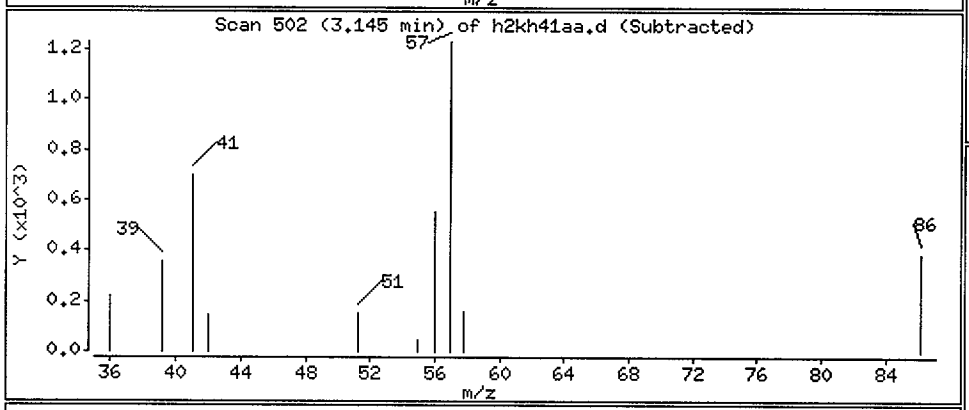
Column diameter: 0.18

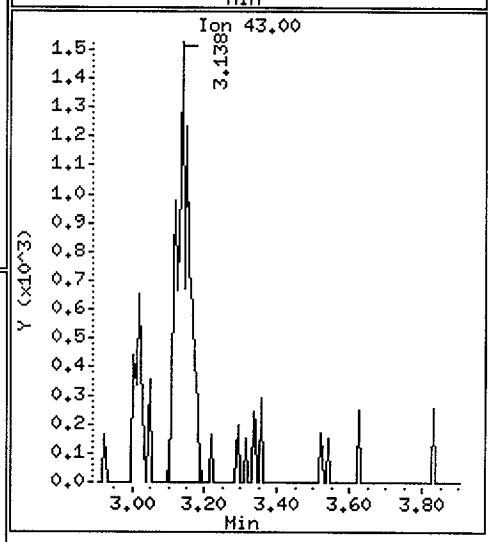
34 *Vinyl Acetate

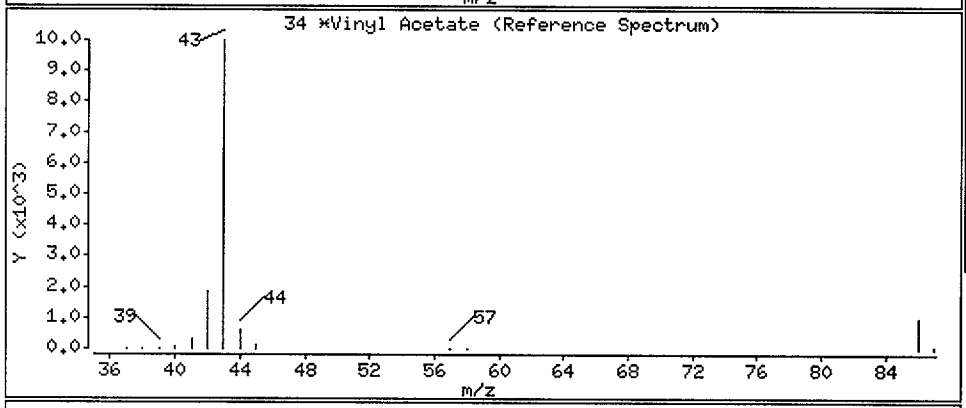
Concentration: 0.010421 ug

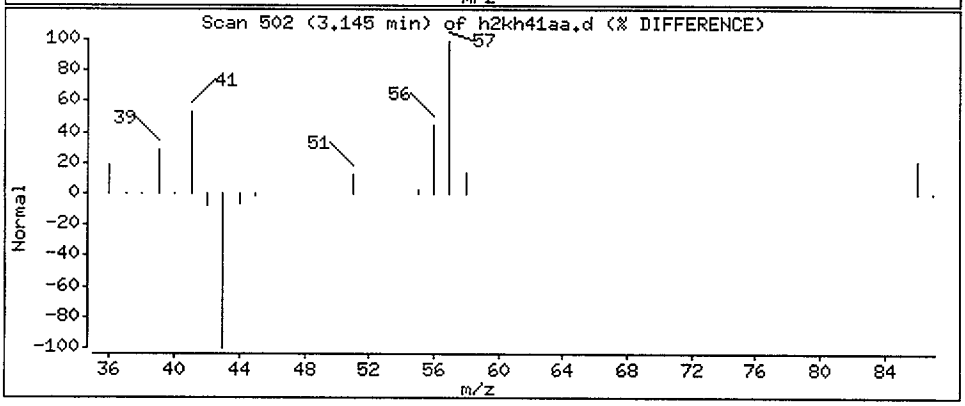












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

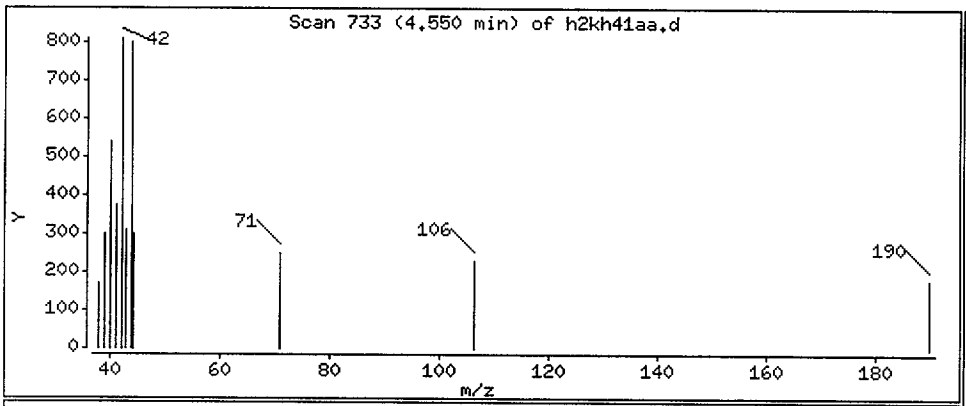
Operator: 22980

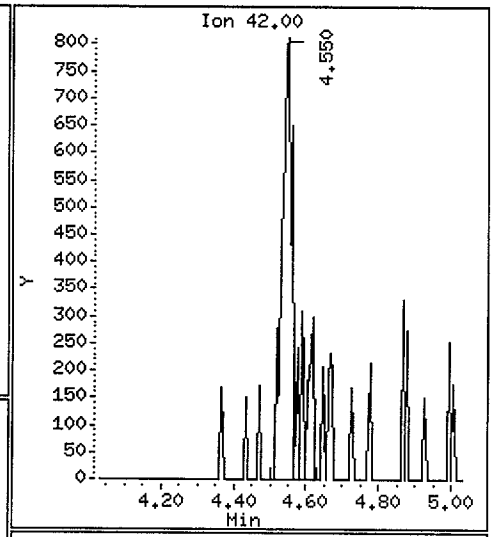
Column phase: J+W 624

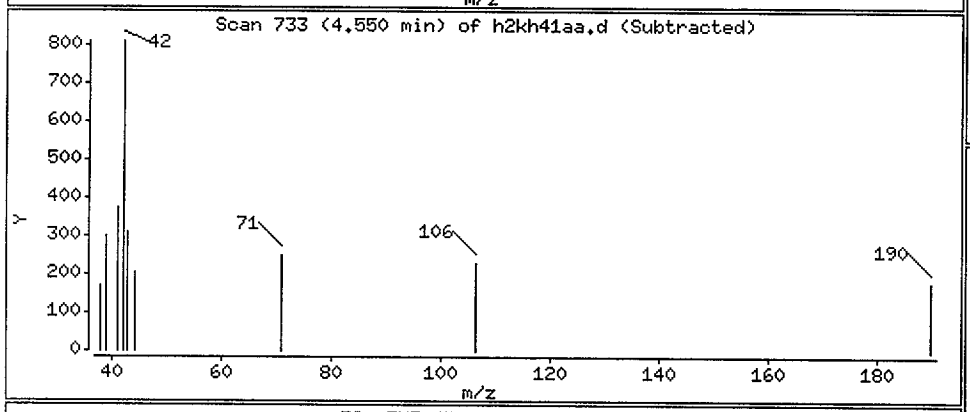
Column diameter: 0.18

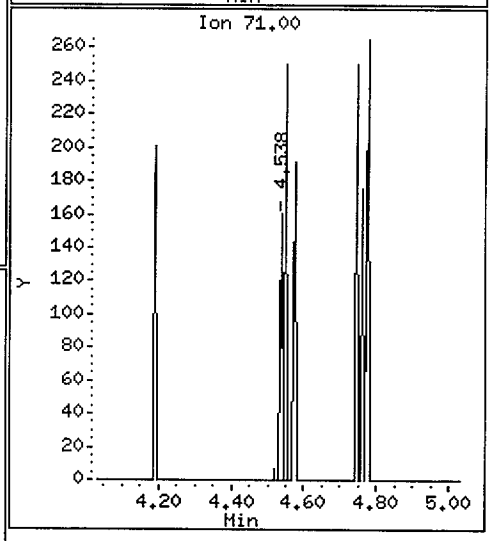
39 *THF

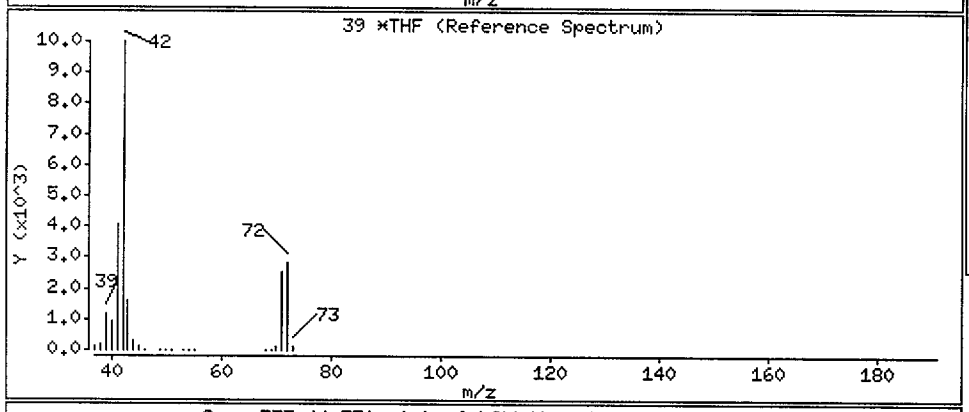
Concentration: 0.027475 ug

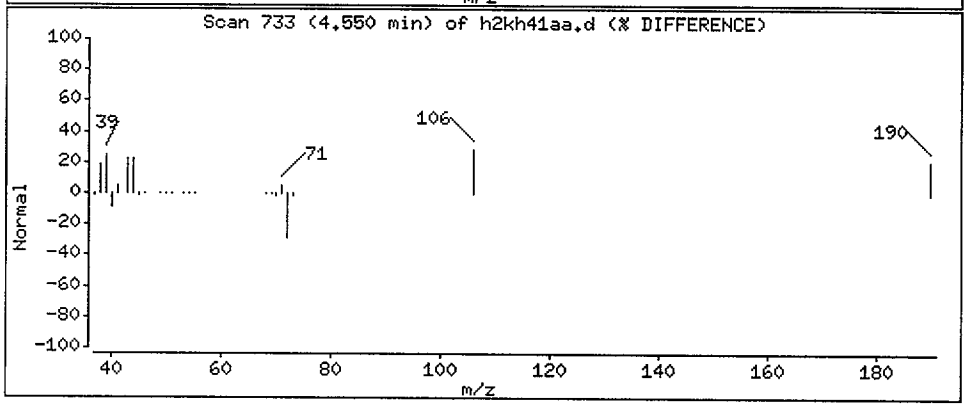












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

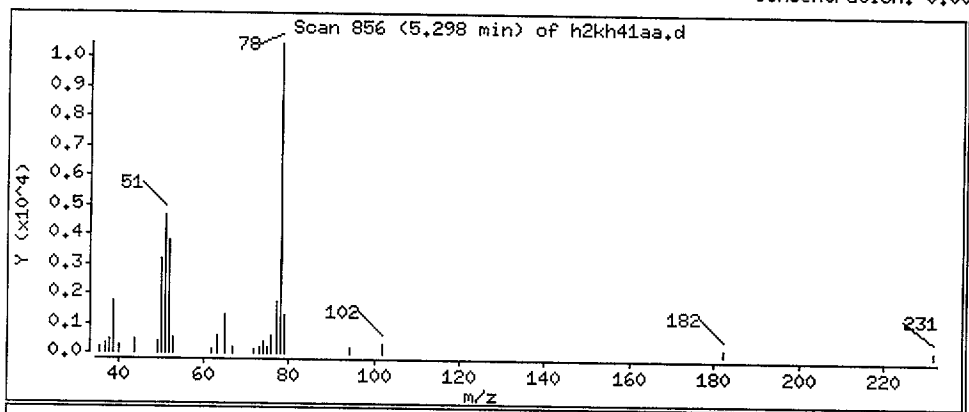
Operator: 22980

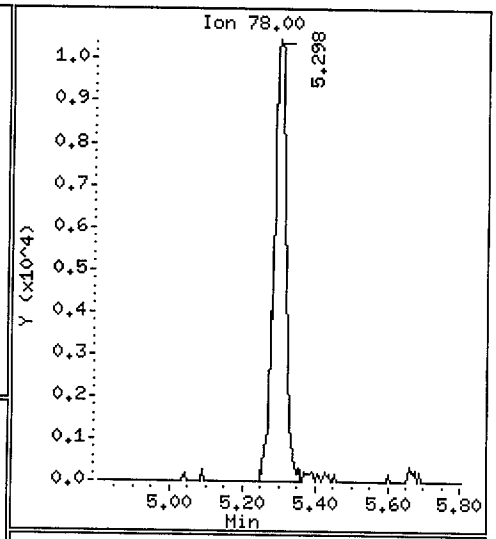
Column phase: J+W 624

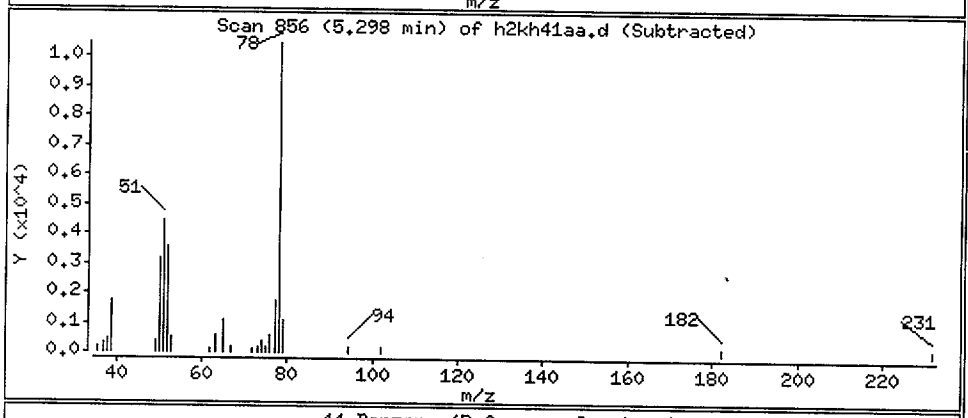
Column diameter: 0.18

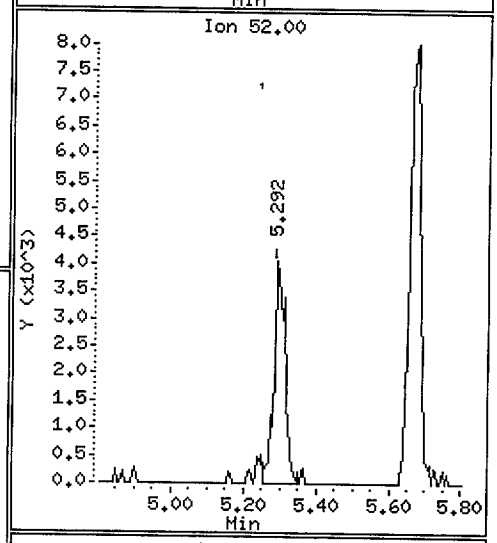
44 Benzene

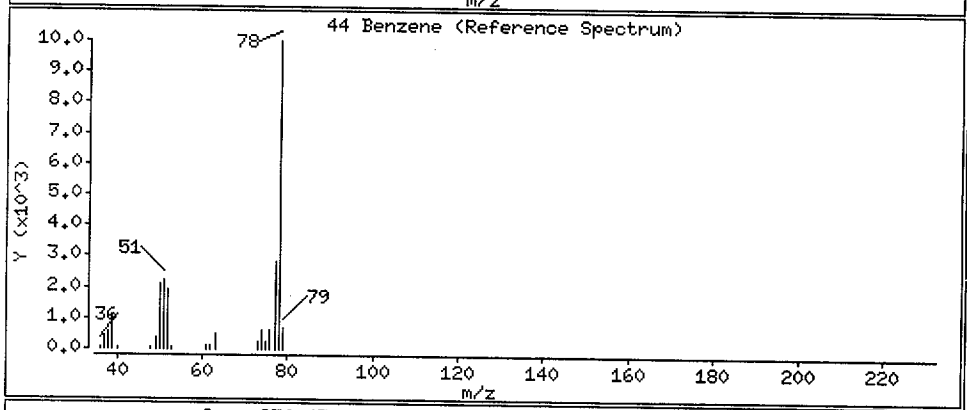
Concentration: 0.0078344 ug

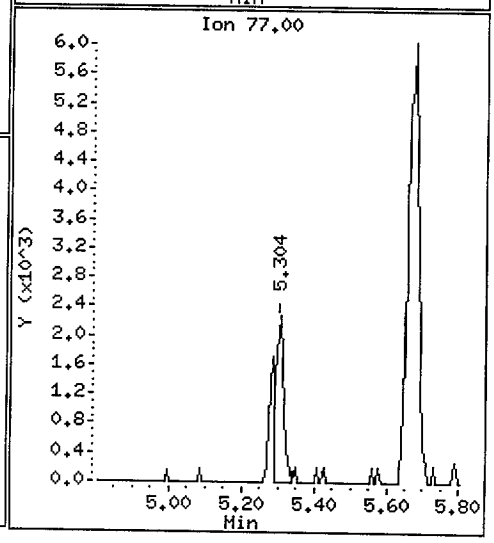


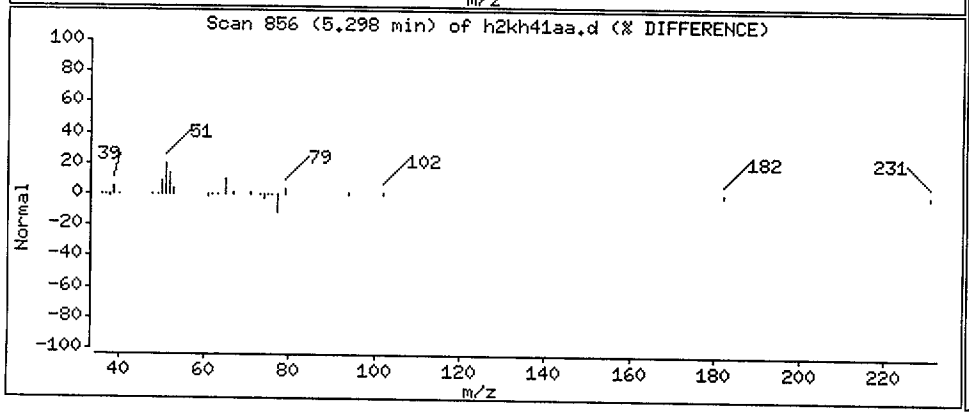












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

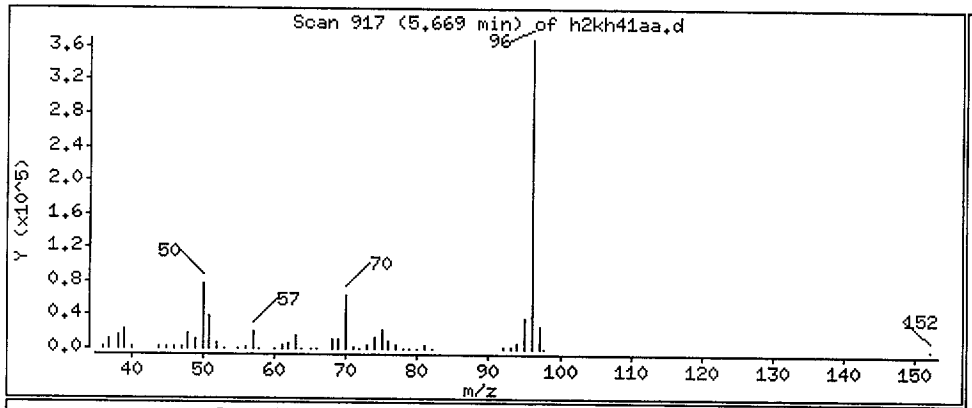
Operator: 22980

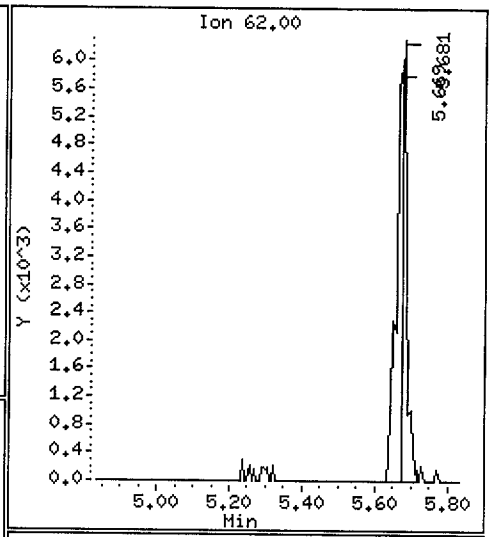
Column phase: J+W 624

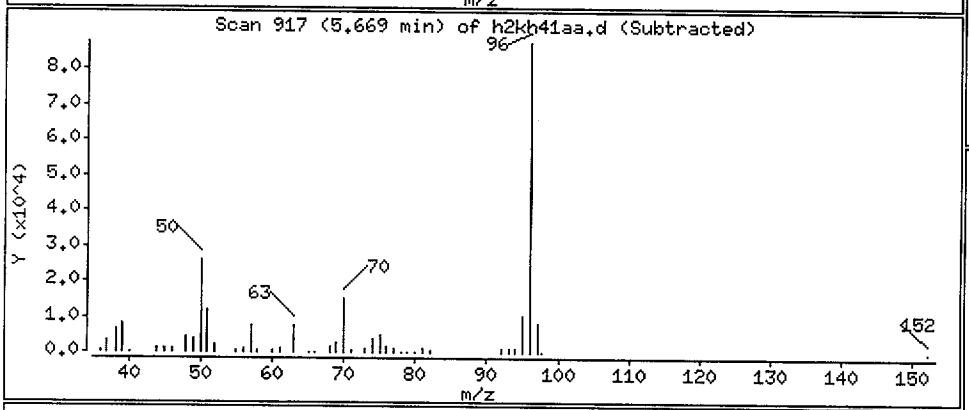
Column diameter: 0.18

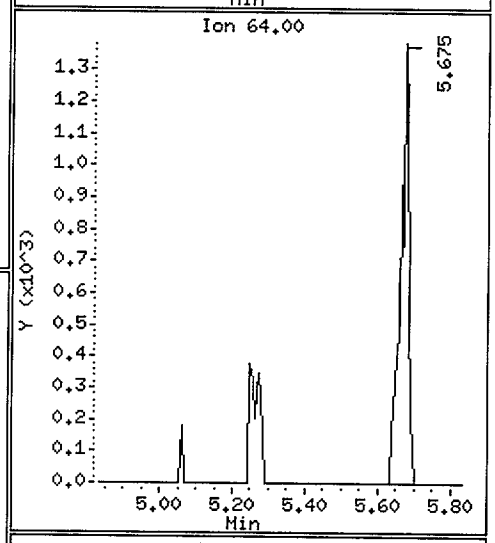
45 1,2-Dichloroethane

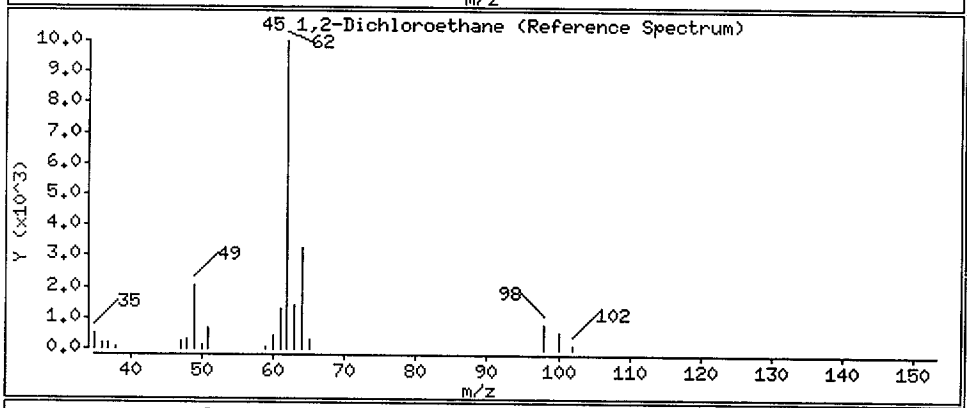
Concentration: 0.012777 ug

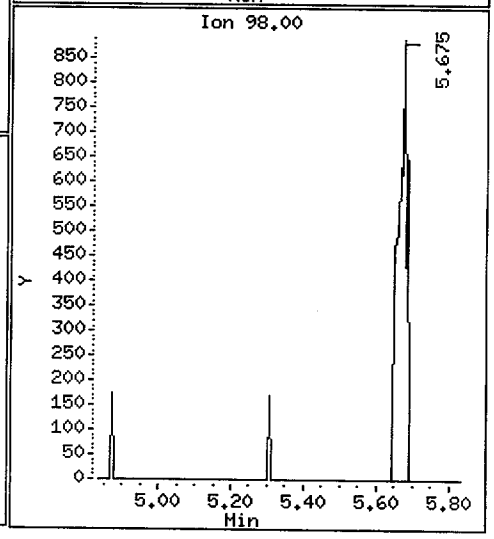


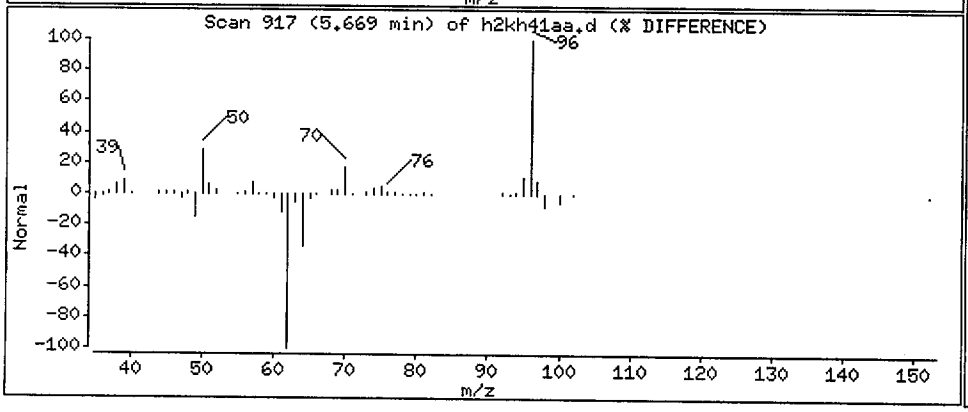












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

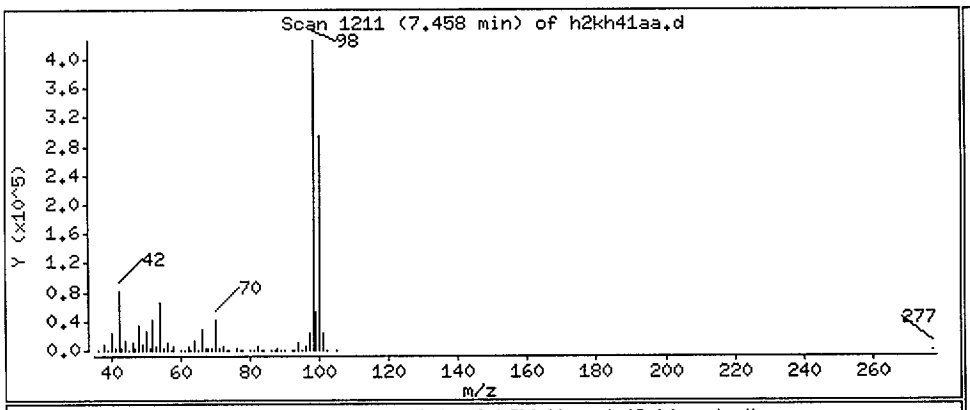
Operator: 22980

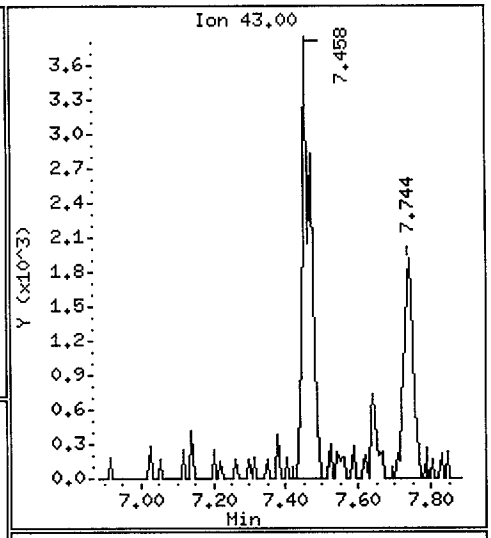
Column phase: J+W 624

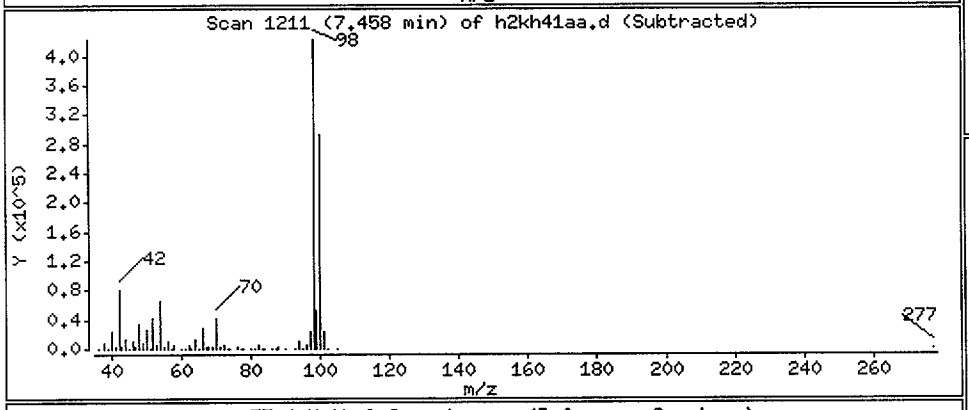
Column diameter: 0.18

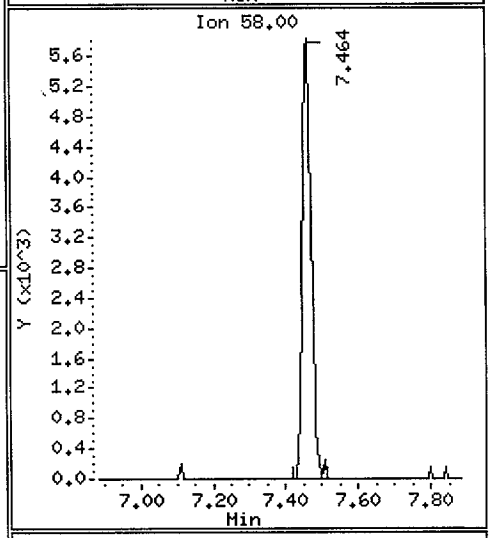
53 4-Methyl-2-pentanone

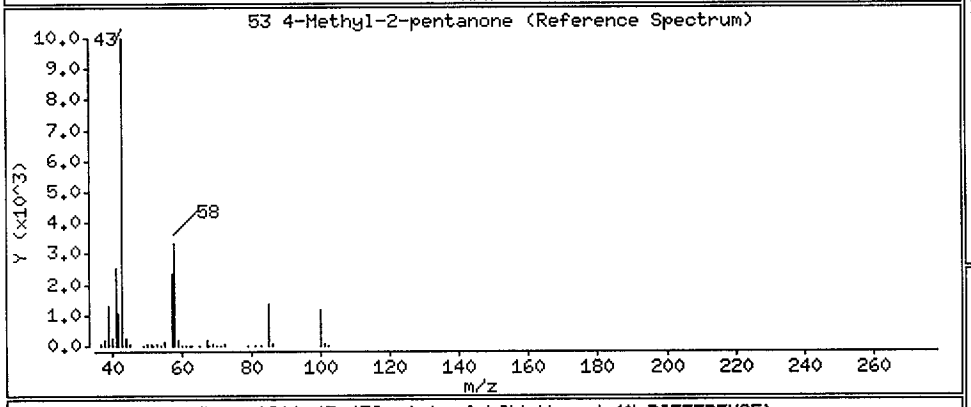
Concentration: 0.022503 ug

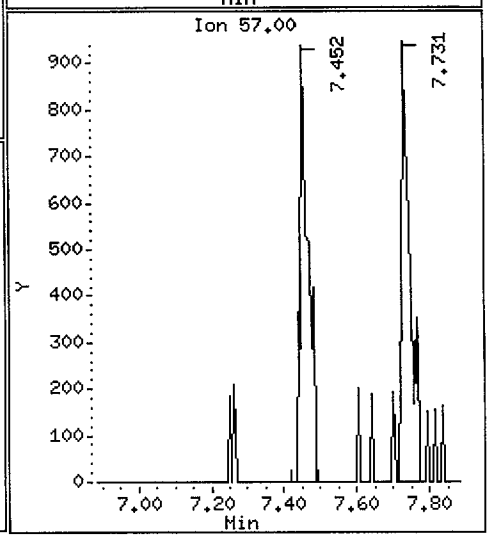


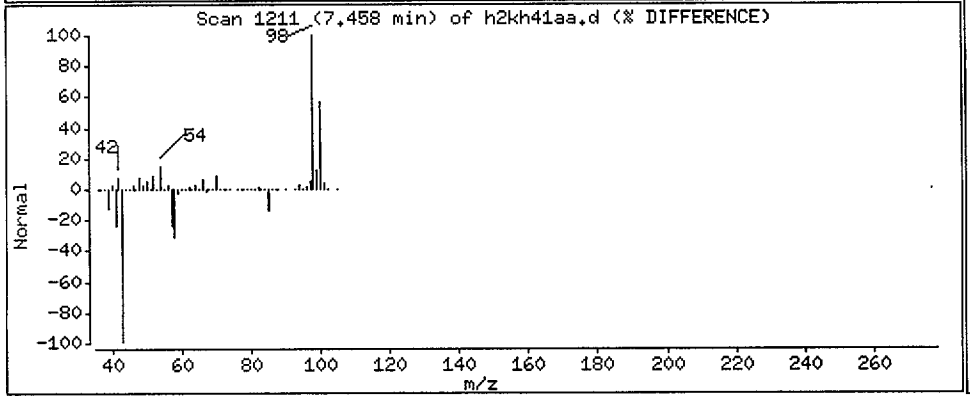












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

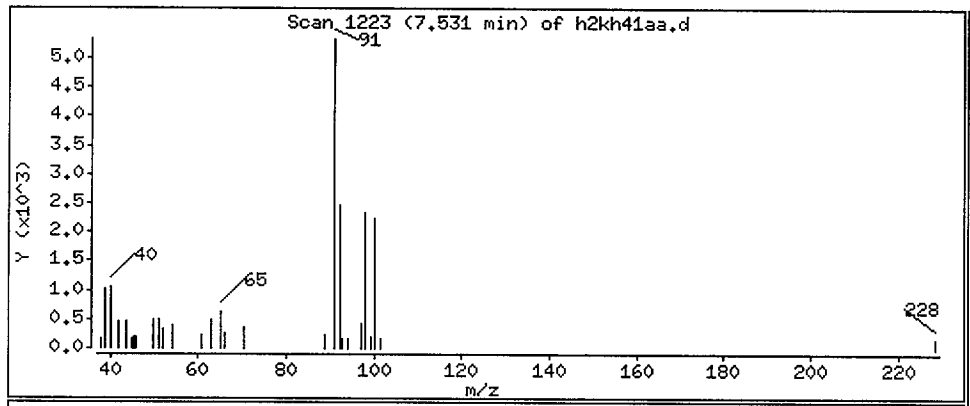
Operator: 22980

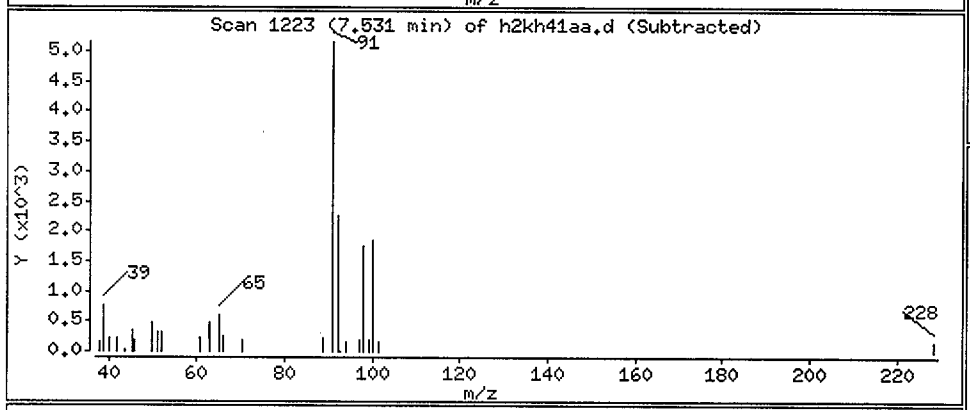
Column phase: J+W 624

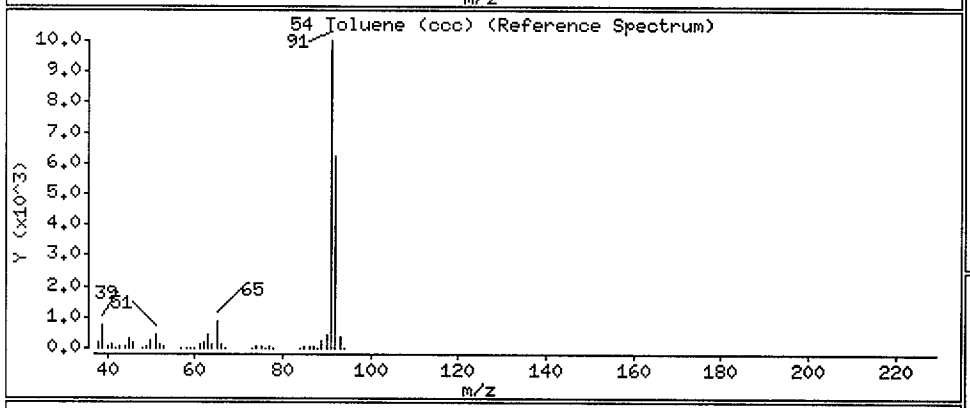
Column diameter: 0.18

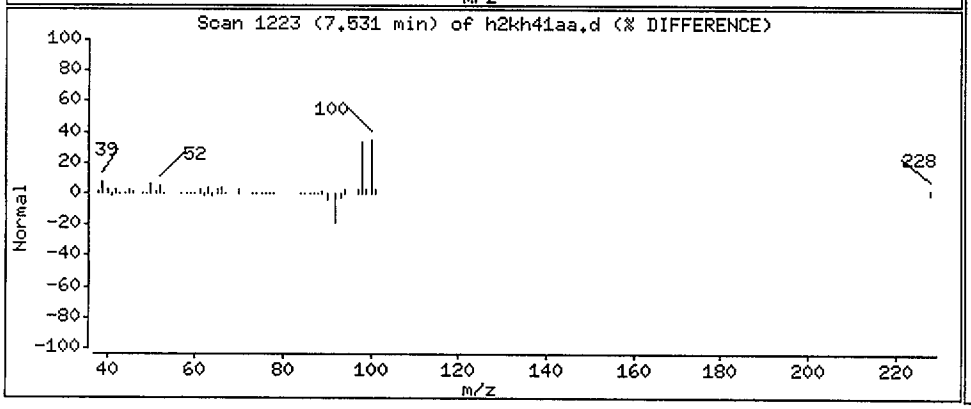
54 Toluene (ccc)

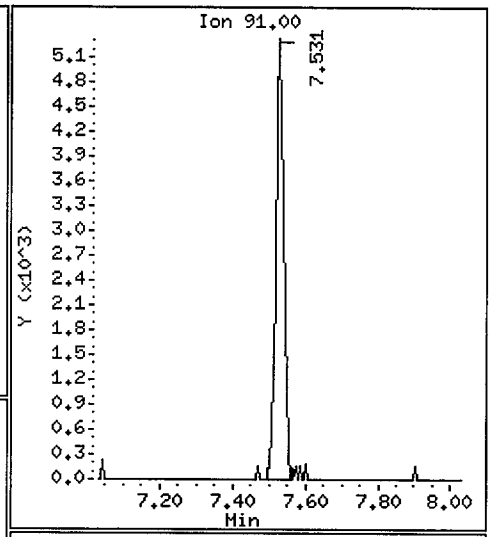
Concentration: 0.0019818 ug

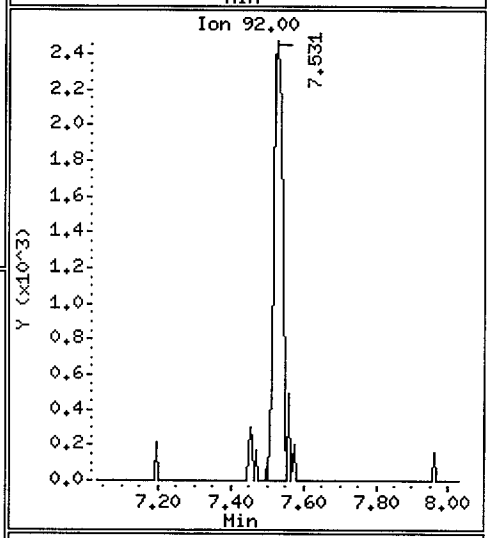


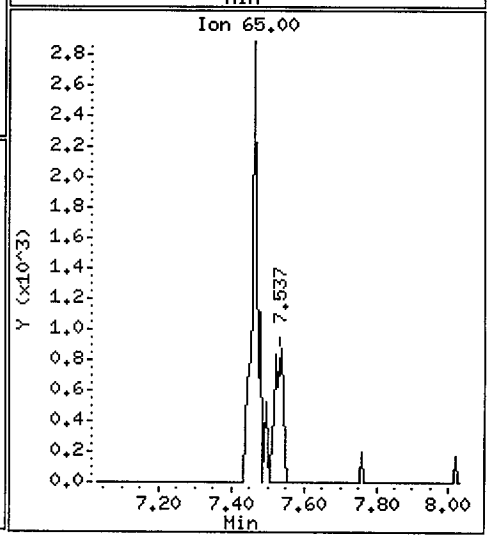












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

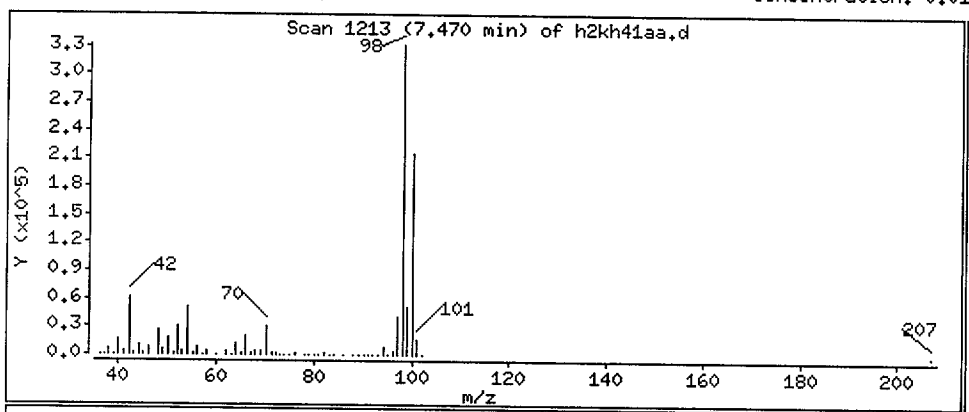
Operator: 22980

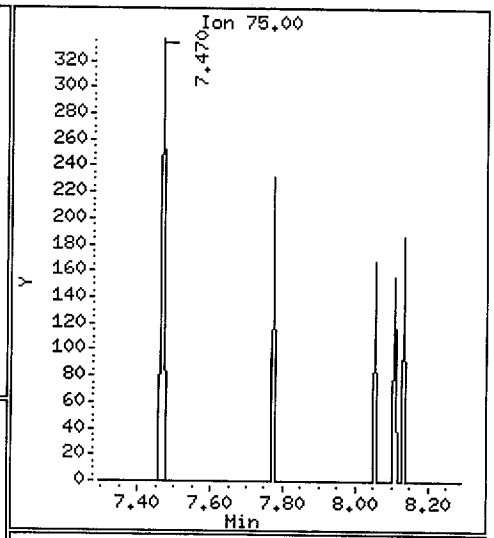
Column phase: J+W 624

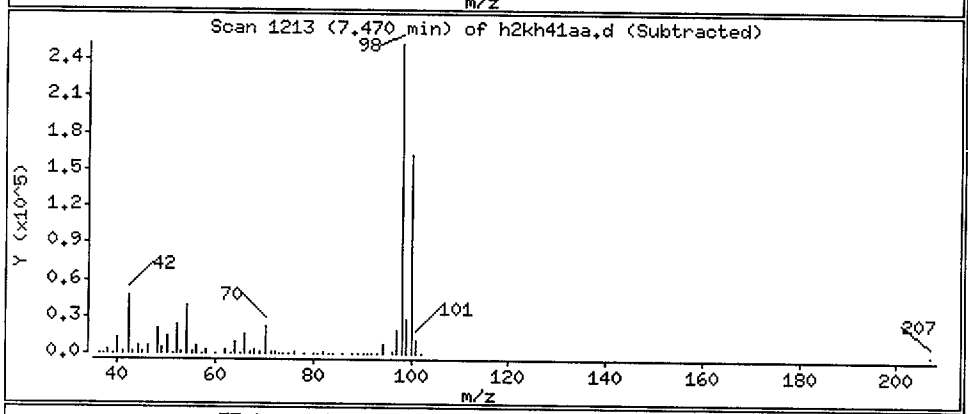
Column diameter: 0.18

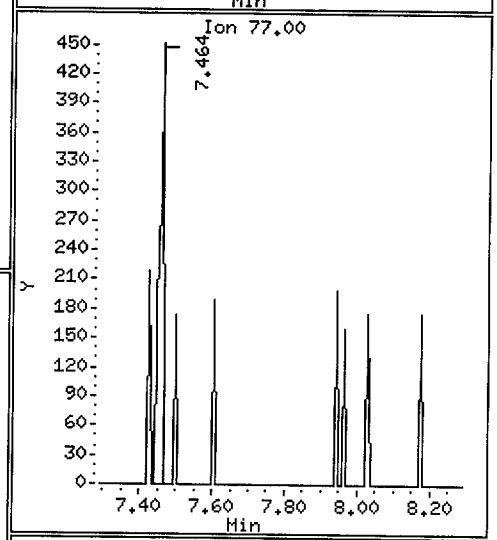
55 trans-1,3-Dichloropropene

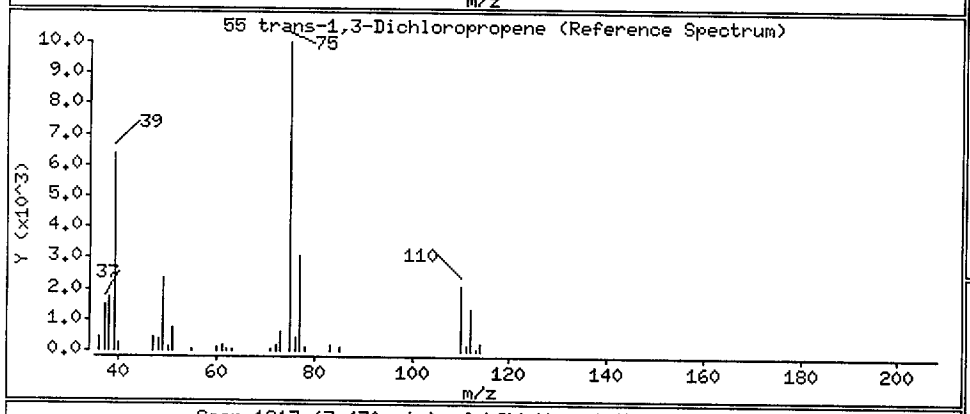
Concentration: 0.015926 ug

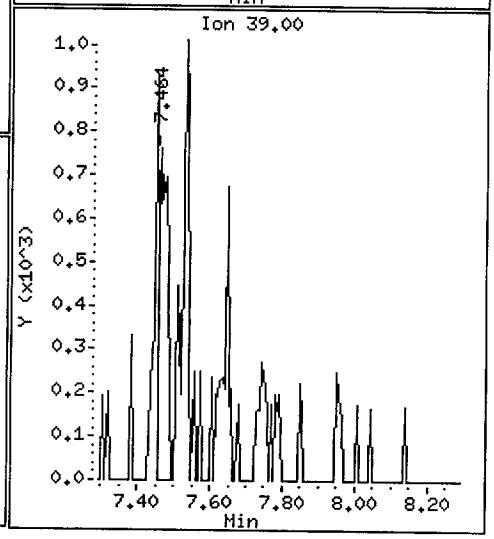


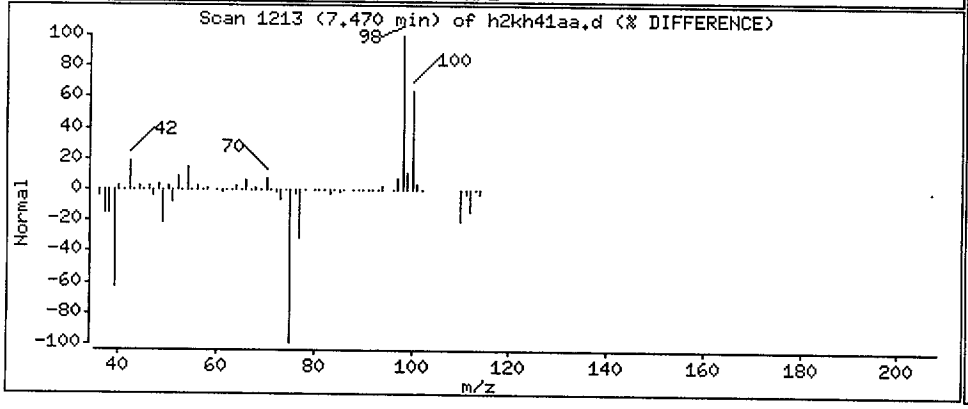












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

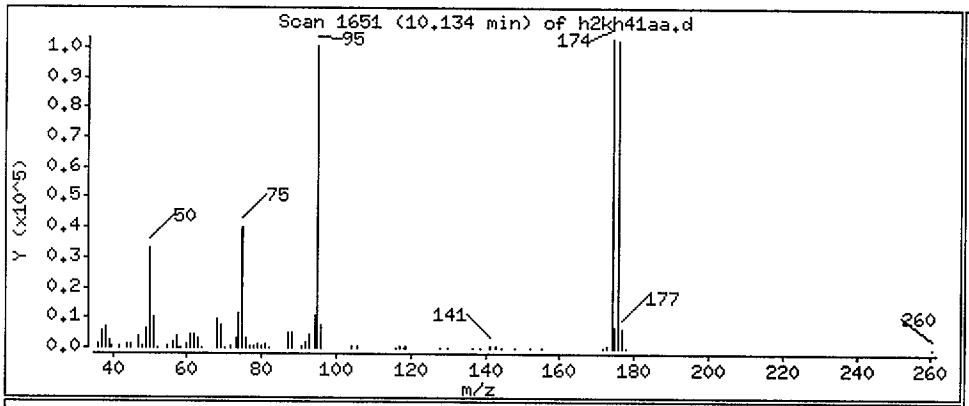
Operator: 22980

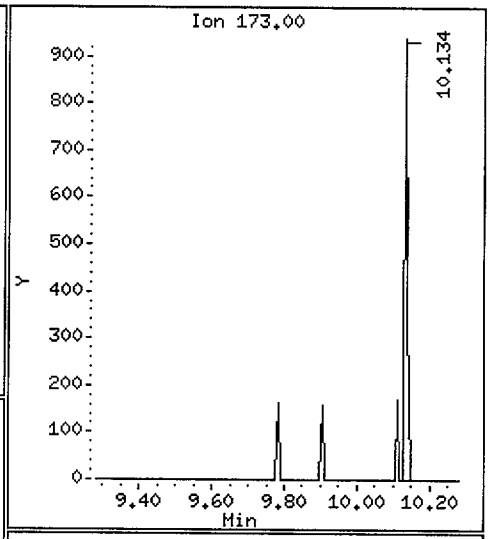
Column phase: J+W 624

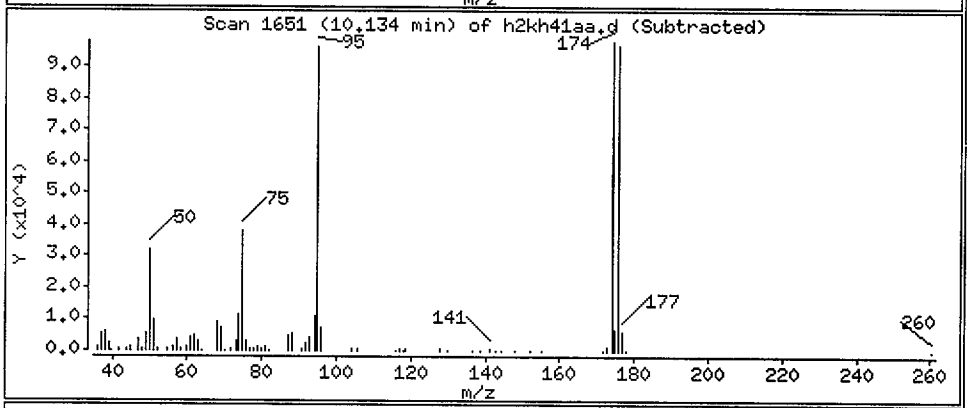
Column diameter: 0.18

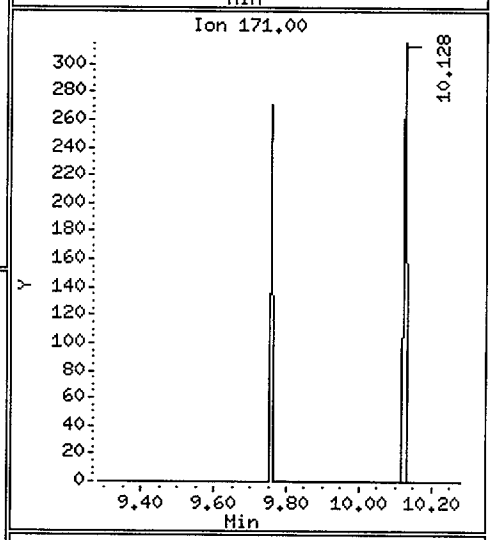
69 Bromoform (spcc)

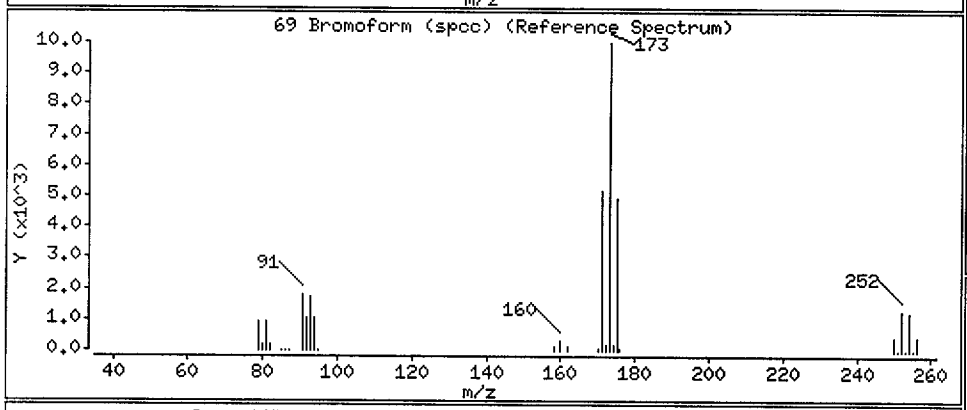
Concentration: 0.024388 ug

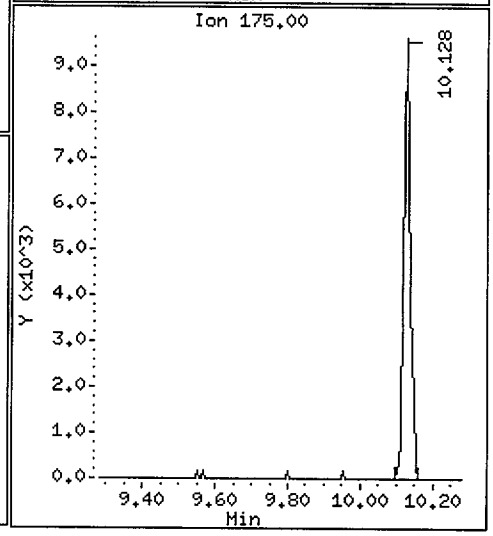


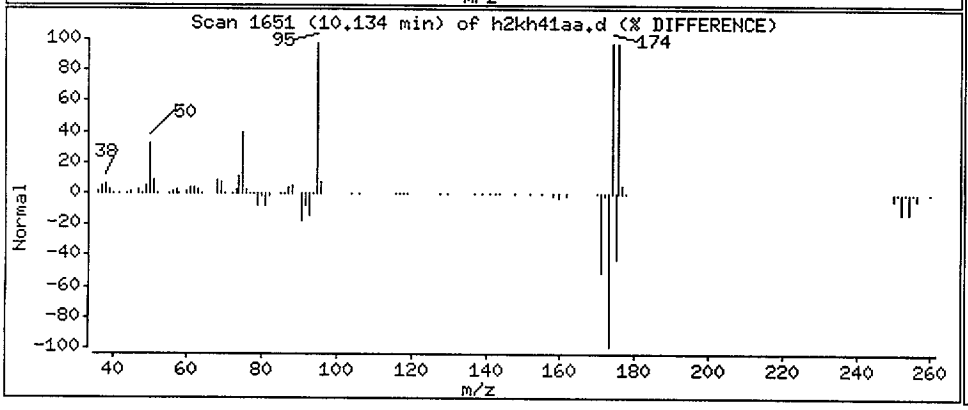












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

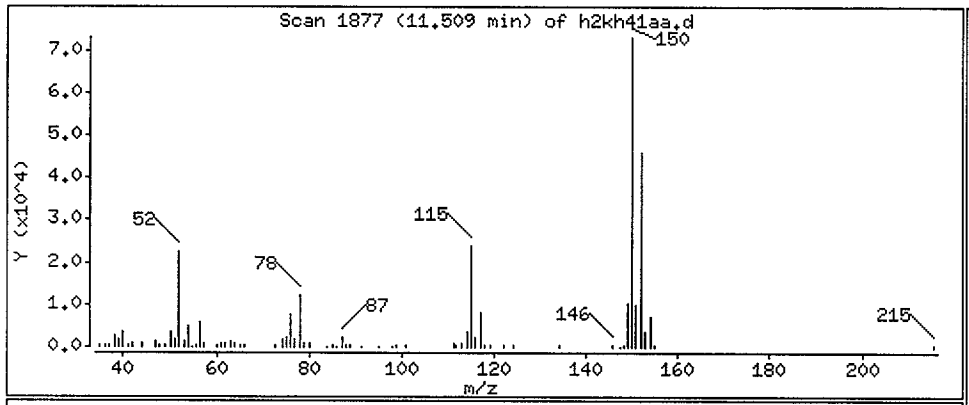
Operator: 22980

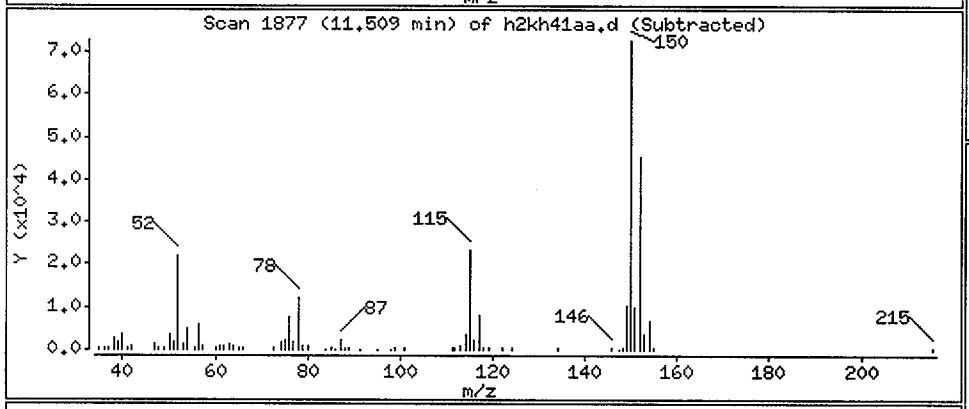
Column phase: J+W 624

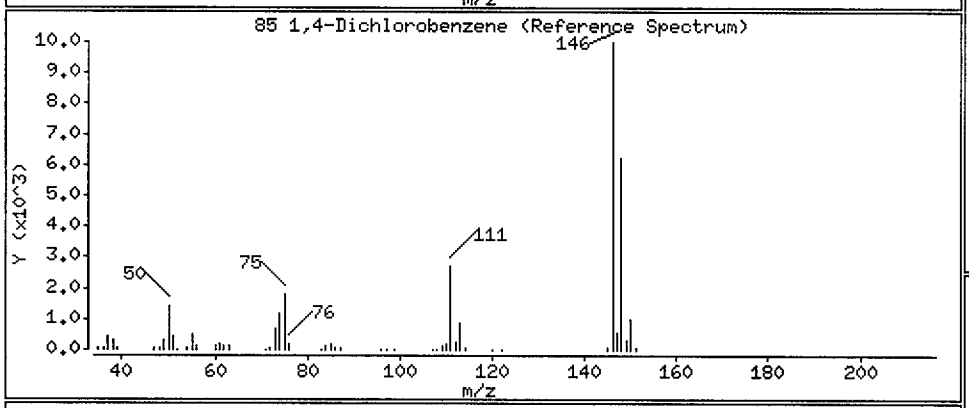
Column diameter: 0.18

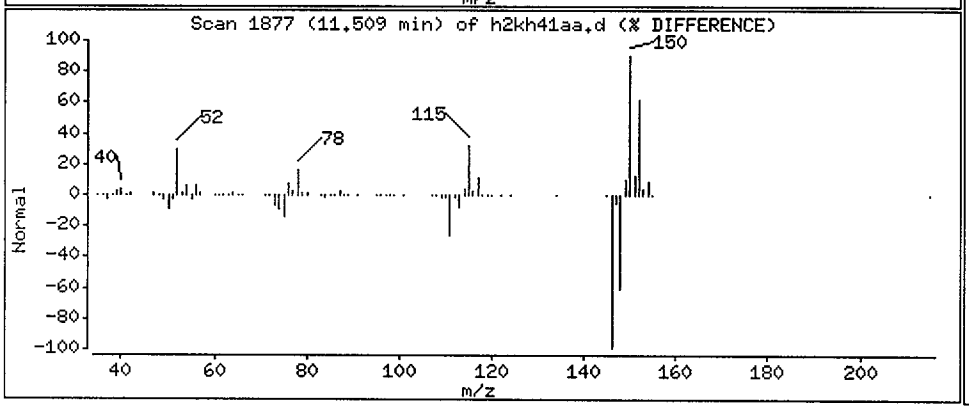
85 1,4-Dichlorobenzene

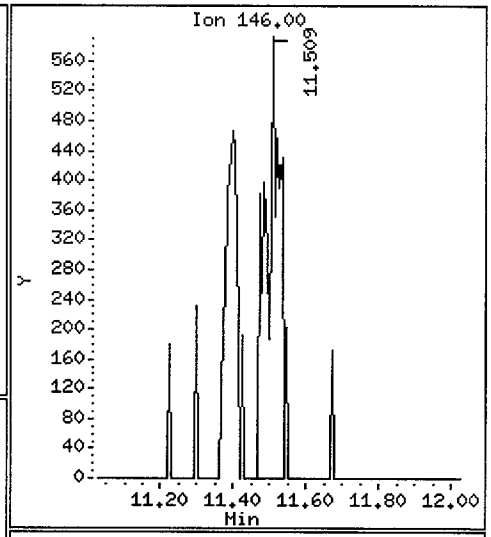
Concentration: 0.0010039 ug

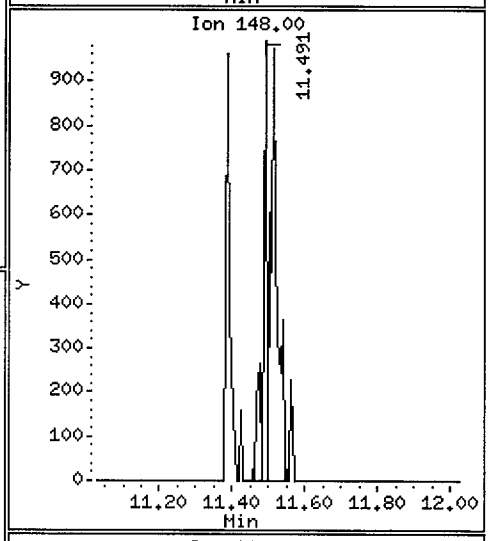


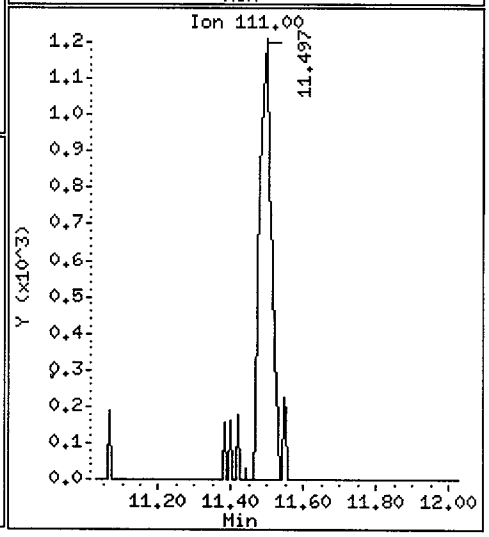












Data File: /chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

Sample Info: H2KH41AA,1,0,,

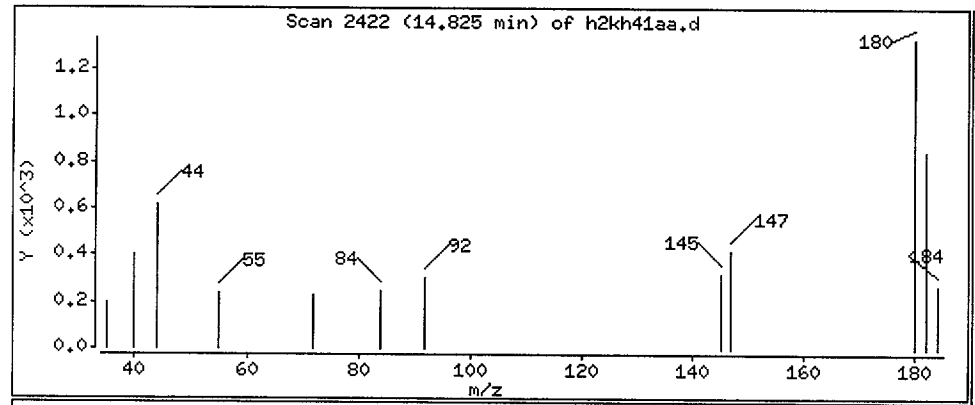
Operator: 22980

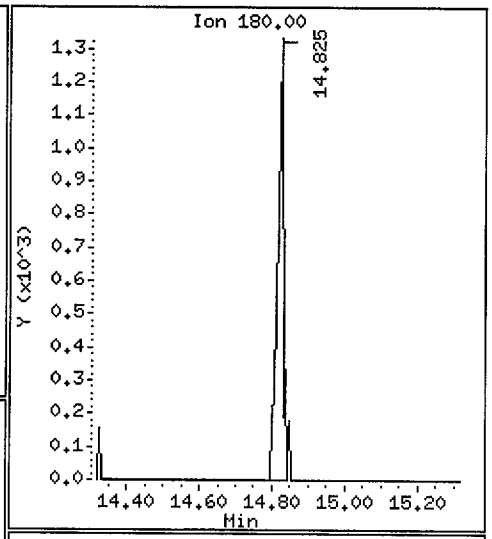
Column phase: J+W 624

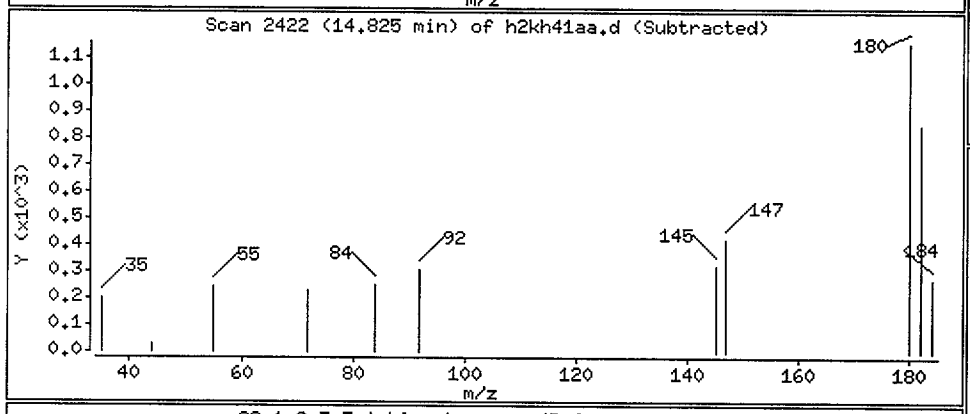
Column diameter: 0.18

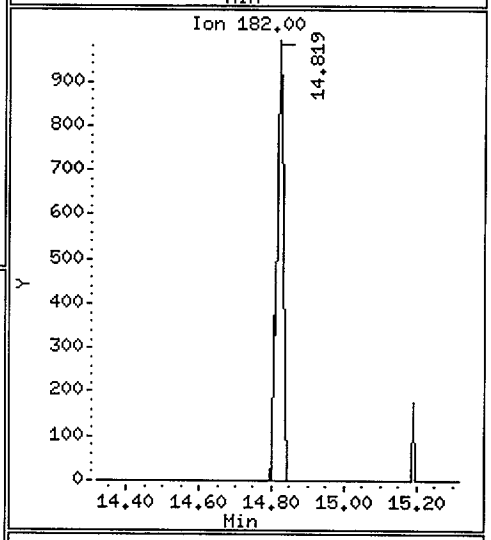
92 1,2,3-Trichlorobenzene

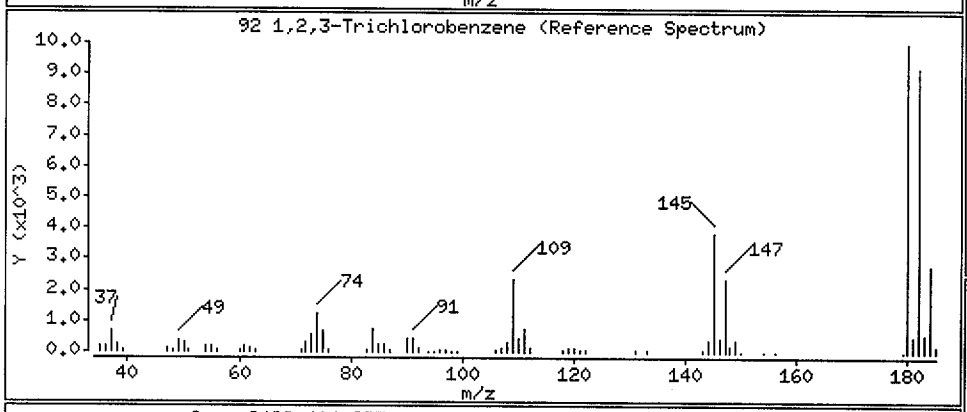
Concentration: 0.0030032 ug

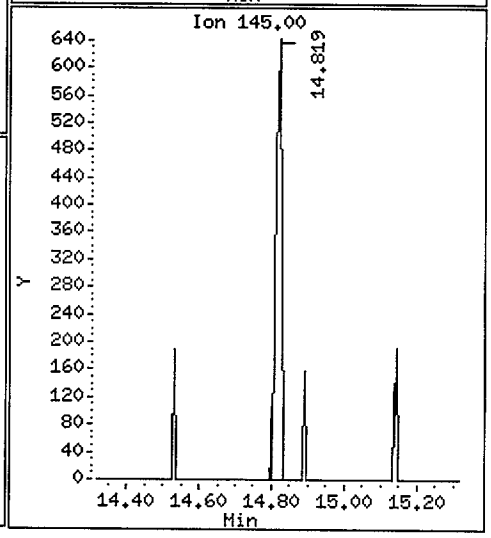


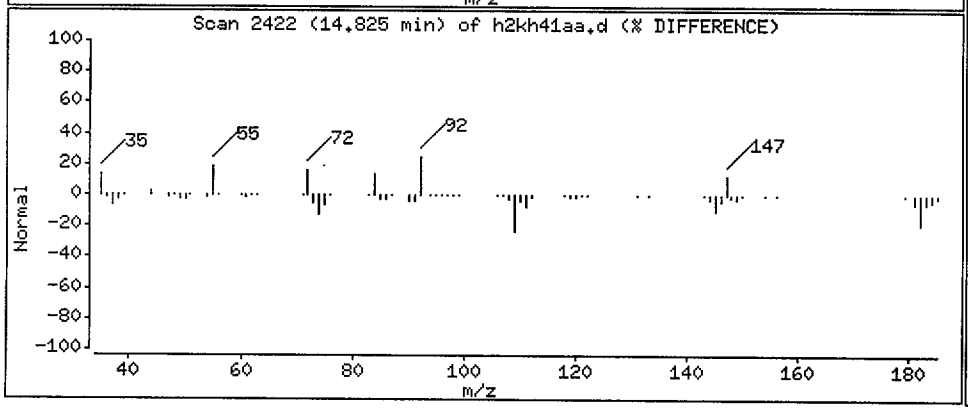












Data File: /var/chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Report Date: 14-Apr-2006 17:03

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2kh41aa.d
Lab Smp Id: H2KH41AA Client Smp ID: A-5388 MEDIA CHECK
Inj Date : 07-APR-2006 10:24
Operator : 22980 Inst ID: mz.i
Smp Info : H2KH41AA,1,0,,
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:48 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.669	863382	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.906	1483355	17.1807497	0.42952	5	NIST05.1	80	1

CO2

JW 4.14.06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2kh41aa.d

Date : 07-APR-2006 10:24

Client ID: A-5388 MEDIA CHECK

Instrument: mz.i

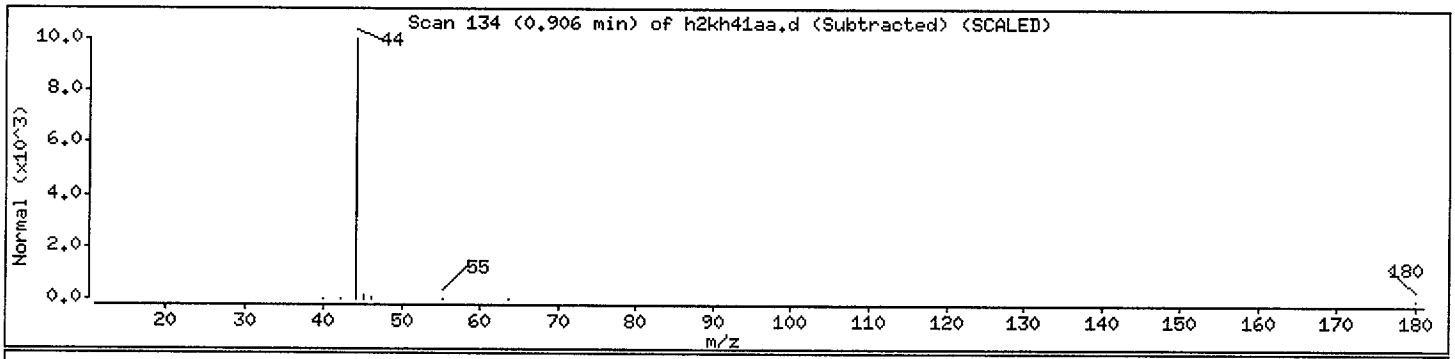
Sample Info: H2KH41AA,1,0,,

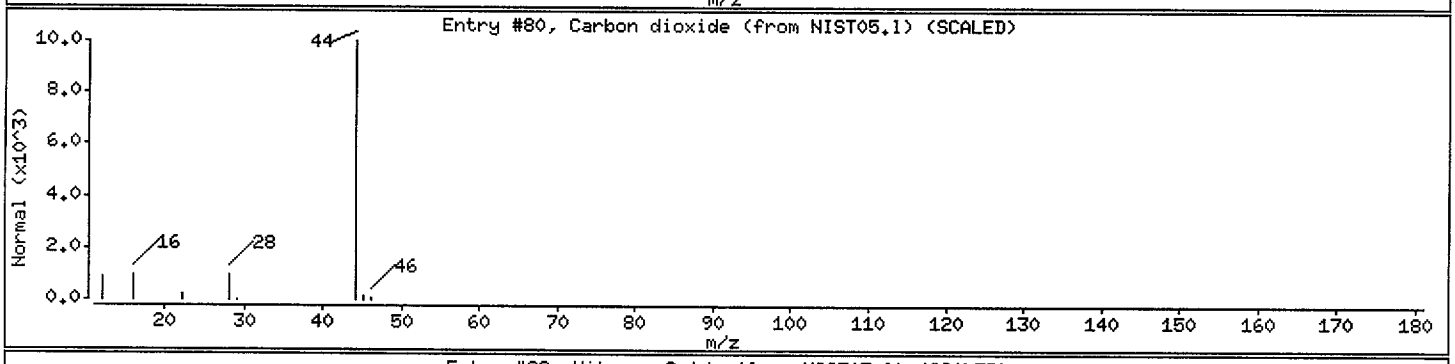
Operator: 22980

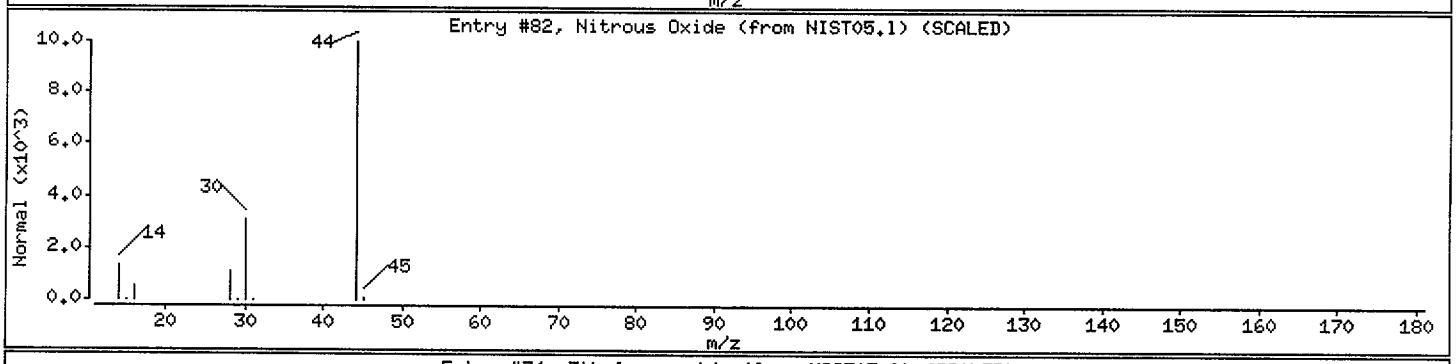
Column phase: J+W 624

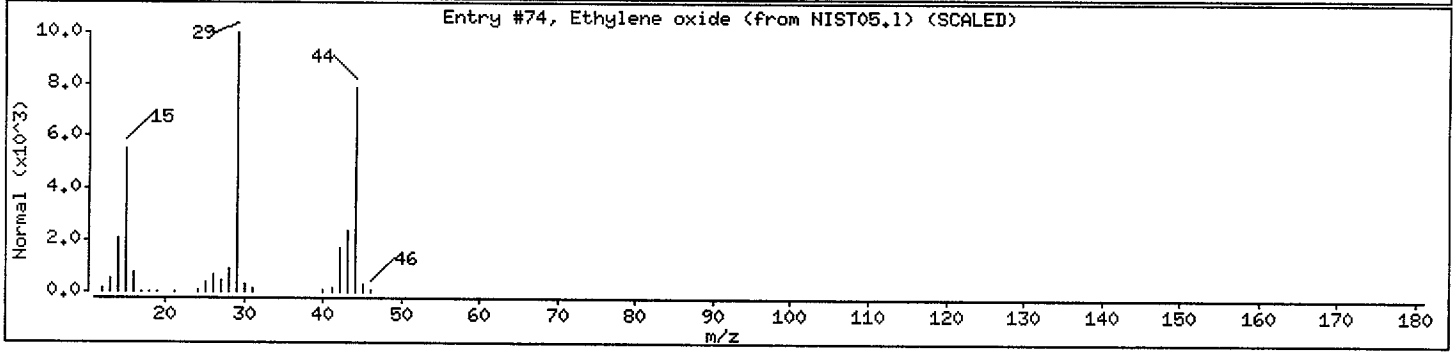
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









Standards Data

STL Volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method: 8260B – KNOX-MS-0015, Rev. 8

Analysis Date:	3/24/06	Instrument:	MZ	ICAL Batch/Scan Name:	Z032406I	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below RL?		✓			✓
6. Was the primary ion used for all compounds?		✓		☐ *Secondary ion used due to interferences for:* _____	✓
7. Do the average RFs for SPCCs meet minimum RF?		✓			✓
8. Are %RSD <30% for CCCs?		✓			✓
9. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
10. If curves were used, is correlation coefficient ≥0.990?		✓			✓
11. At least 6 consecutive points used for quadratic curves?		✓			✓
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous?		✓			✓
13. Is the "Y" intercept less than the RL for each curve?		✓			✓
14. Were all peaks identified automatically? *If not, list analytes*:		✓			✓
15. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	X	✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
16. Are the ICAL start and end dates/times correct on ICAL summary?	MT 3/28/06	✓			✓
17. Elution order checked on isomeric pairs?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
19. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, & curves, followed by Quan reports, chromatograms & manual integrations, in order from low to high standard.		✓			✓
20. Was the 2nd source calibration verification standard within 70-130% and are results in ICAL folder? (25% DOD)		✓			✓

Analyst:	Date: 3/28/06	2nd Level Reviewer : MT	Date: 3/28/06
Comments: Max ~~Ketone~~ Acetone 160 ppb MT 3/28/06 Bromoform Max 40 ppb		Comments:	

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	Z032406I	XXXXXXXXX	XXXXXXXXX	Loop #	—	3
QuantIMS Batch	60083471	—	—	Standard ID	—	VOA 6488
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	—	water
SOP#	KnoxMS0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	—	4.7 ml
Intitial Cal Batch	Z032406I	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	—	↓
CCAL IS Areas	1140841	197405	234469	Heated?		Y (N)

☑ Date/Time Verified Preventive Maintenance Performed ☐ NA or ☑ cleaned source - see maint. log

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments	Total volume
Tune	BFBZC24	1331	—	—	—	1	—	NA	MT	1ml VOA 6486	
ICAL 0.20	ICVZC248	1351	1	—	1		25mL			VOA 6486 VOA 6487 VOA 6485 3ml 100ml 1ml	500mL
.32	7	1414	2	—						4.8ml 100ml 1.6ml	↓
01	1	~~1501~~ 1438	3	—						2ml 20ml 1ml	100mL
02	2	~~1524~~ 1501	4	—						4ml 20ml 2ml	↓
10	3	~~1548~~ 1524	5	3						— — 5ml	50mL
20	4	~~1611~~ 1548	6							10ml — 10ml	
40	5	1611	7							20ml — 20ml	
80	6	1634	8							— — 40ml	↓
BLK	BLK1	1657	9								
2nd Source	H10CE1AC	1721	10							10ml VOA 6489 → 50mL	
↓	H10CE1AD	1744	11							↓	
BLK	BLK	1808	~~12~~ 12								
↓	H10CE1AA	1831	~~13~~ 13								
C080102	H0R971AA	Dwn	~~14~~ 14								
↓	H0R981AA	↓	~~15~~ 15		↓	↓				MT 3/28/06	
C230178	H1TFC1AA	↓	~~16~~ 16		50	10					
C220169	H1PIC1AA	↓	~~17~~ 17		50	10				Foamer	

MT 3/28/06

Analyst/Date: MT 3/28/06

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	2032806	XXXXXXXXX	XXXXXXXXX	Loop #	3	
QuantIMS Batch				Standard ID	VOA6486	
Method	8260D	XXXXXXXXX	XXXXXXXXX	Matrix	25mL	
SOP#	KNOX-MS-0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	47/mL	
Intitial Cal Batch	2032406	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	↓	
CCAL IS Areas	1026731	181231	22795	Heated?	Y	N

☑ Date/Time Verified Preventive Maintenance Performed ☒ NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFB7C28	1218	—	—	1	1	1.0mL	NA	[illegible]	1.0mL VOA6486
CCV	CCV7C283	1243	1	3	↓	↓	25mL	↓	↓	5.0mL VOA6485 → 50mL
LCS	LCS0328	1306	2	↓	↓	↓	↓	↓	↓	20mL VOA6485 → 50mL
LCS	LCSACT	1329	3	↓	↓	↓	↓	↓	↓	2.0mL ~~VOA~~ V174 → 50mL

3/28/06

Analyst/Date: [illegible] / 3/28/06

Data File: /chem/gcms/mz.i/Z032406I.b/bfbzc24.d

Date : 24-MAR-2006 13:31

Client ID:

Instrument: mz.i

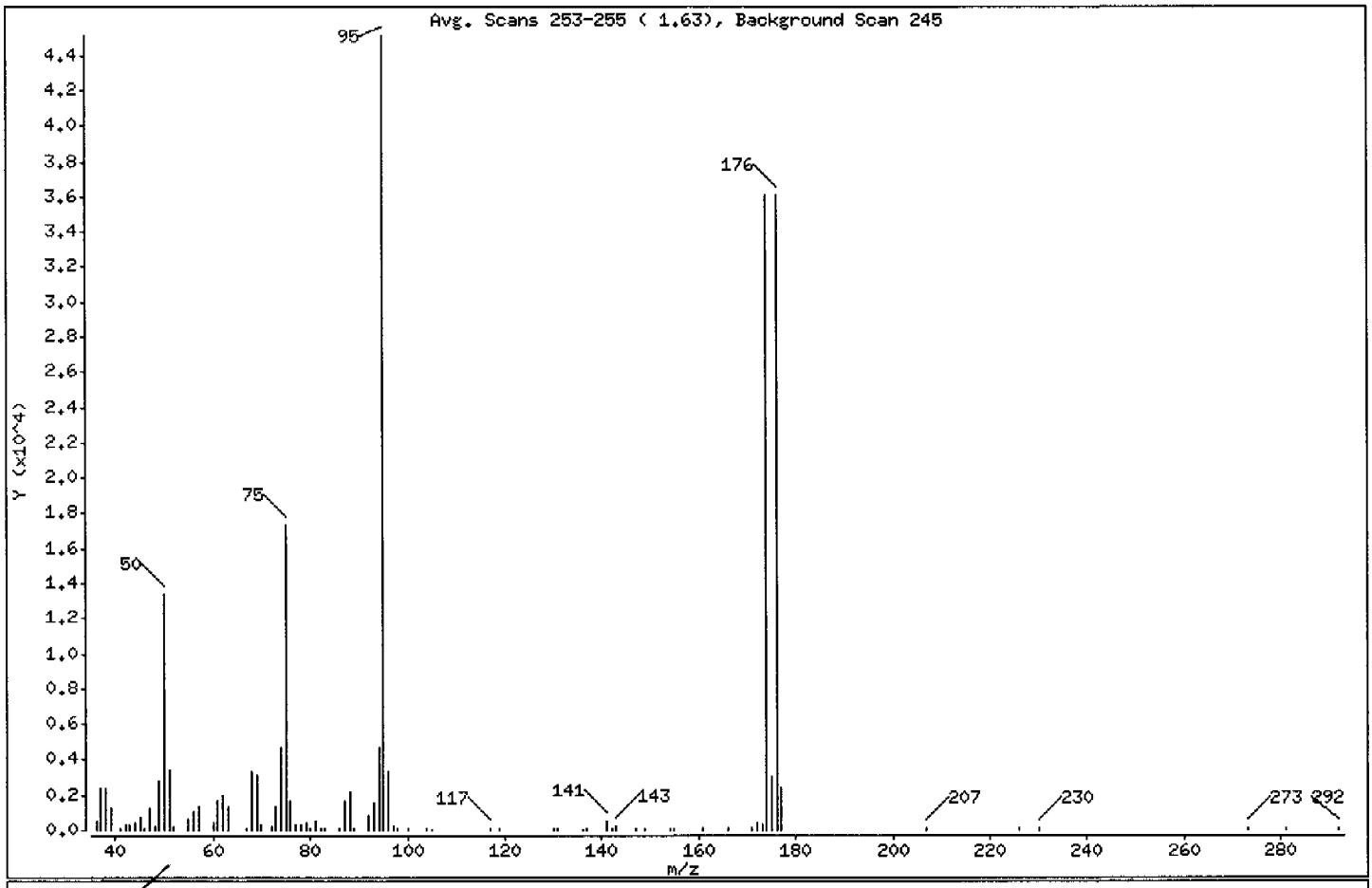
Sample Info: BFBZC24,1,3,,BFB

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.57
75	30.00 - 60.00% of mass 95	38.36
96	5.00 - 9.00% of mass 95	7.28
173	Less than 2.00% of mass 174	0.63 (0.78)
174	50.00 - 120.00% of mass 95	80.00
175	5.00 - 9.00% of mass 174	6.62 (8.27)
176	95.00 - 101.00% of mass 174	80.04 (100.04)
177	5.00 - 9.00% of mass 176	5.18 (6.47)

Data File: /chem/gcms/mz.i/Z032406I.b/bfbzc24.d

Date : 24-MAR-2006 13:31

Client ID: Instrument: mz.i

Sample Info: BFBZC24,1,3,,BFB

Operator: 22980

Column phase: J & W 624 Column diameter: 0.18

Data File: bfbzc24.d
Spectrum: Avg. Scans 253-255 (1.63), Background Scan 245
Location of Maximum: 95.00
Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	535	62.00	1985	89.00	110	149.00	58
37.00	2417	63.00	1302	92.00	874	154.00	71
38.00	2337	67.00	134	93.00	1563	155.00	58
39.00	1284	68.00	3345	94.00	4691	161.00	74
41.00	119	69.00	3111	95.00	45120	166.00	59
42.00	349	70.00	292	96.00	3285	171.00	126
43.00	284	72.00	177	97.00	166	172.00	437
44.00	381	73.00	1316	98.00	140	173.00	283
45.00	777	74.00	4681	100.00	52	174.00	36096
46.00	89	75.00	17304	104.00	56	175.00	2986
47.00	1269	76.00	1652	105.00	51	176.00	36112
48.00	205	77.00	262	117.00	145	177.00	2338
49.00	2830	78.00	264	119.00	82	207.00	84
50.00	13344	79.00	428	130.00	152	226.00	54
51.00	3436	80.00	75	131.00	128	230.00	63
52.00	163	81.00	565	136.00	51	273.00	123
55.00	626	82.00	55	137.00	65	281.00	56
56.00	999	83.00	55	141.00	508	292.00	89
57.00	1336	86.00	55	142.00	68		
60.00	430	87.00	1634	143.00	209		
61.00	1658	88.00	2211	147.00	63		

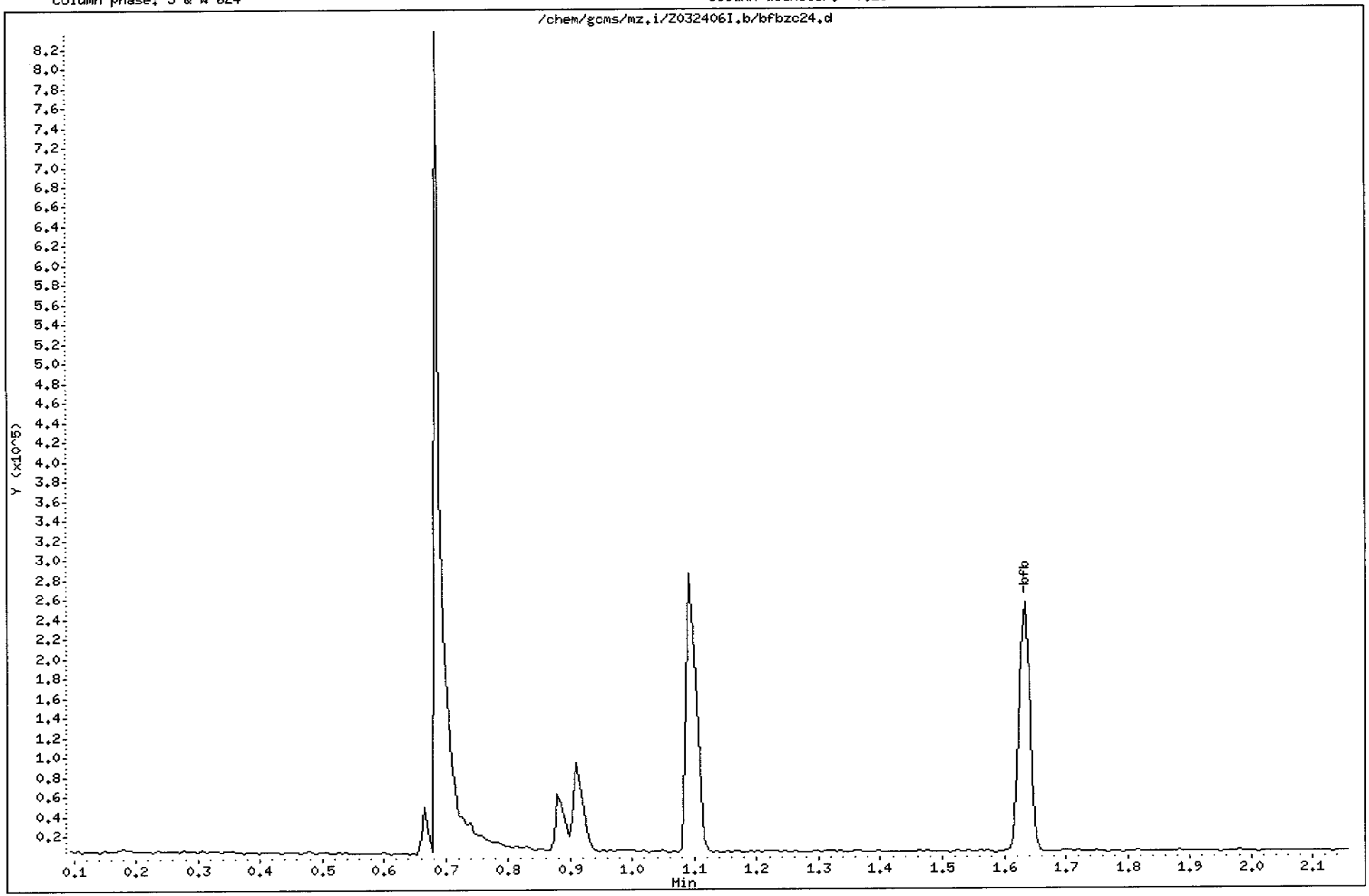
Data File: /chem/gcms/mz.i/Z032406I.b/bfbzc24.d
Date : 24-MAR-2006 13:31
Client ID:
Sample Info: BFBZC24,1,3,,BFB

Instrument: mz.i

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18



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End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
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Calibration File Names:
Level 1: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Level 2: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Level 3: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Level 4: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Level 5: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Level 6: /chem/gcms/mz.i/Z032406I.b/icvzc246.d
Level 7: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Level 8: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
M 8 1,2-Dichloroethene (total)	0.26719	0.27383	0.26063	0.27180	0.26122	0.26347					
	+++++	+++++					AVRG		0.26636		2.08125
M 9 Xylene (total)	2.42065	2.51184	2.45172	2.49082	2.39759	+++++					
	+++++	+++++					AVRG		2.45452		1.93245
10 Dichlorodifluoromethane	0.22687	0.21890	0.24991	0.26263	0.25636	0.25729					
	0.23672	+++++					AVRG		0.24410		6.87041

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Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
11 Chloromethane (spcc)	106980	175396	767002	1410409	2424327	4768731					
	39346	+++++					WLINR	-0.05764	0.55962		0.99380
12 Vinyl Chloride (ccc)	0.40412	0.40077	0.39782	0.41616	0.40406	0.38776					
	0.34635	+++++					AVRG		0.39386		5.73845
13 *1,3-Butadiene	0.37494	0.38329	0.35114	0.38314	0.31783	0.32071					
	+++++	+++++					AVRG		0.35518		8.50491
15 Bromomethane	5472	10576	91856	213182	458442	963744					
	+++++	+++++					WLINR	0.08343	0.10668		0.99641
16 Chloroethane	0.19087	0.19609	0.18055	0.19083	0.18517	0.17548					
	+++++	+++++					AVRG		0.18650		4.07346
17 *Vinyl Bromide	0.16662	0.15653	0.16556	0.17758	0.17126	0.16214					
	+++++	+++++					AVRG		0.16661		4.36583
18 Trichlorofluoromethane	0.29982	0.30312	0.29760	0.33017	0.31746	0.28573					
	+++++	+++++					AVRG		0.30565		5.15771

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 *2-Chloropropane	0.63079	0.68632	0.65954	0.69284	0.67170	0.62804					
	+++++	+++++					AVRG		0.66154		4.15012
20 1,1-Dichloroethene (ccc)	0.22045	0.21629	0.21814	0.23068	0.22418	0.20736					
	0.20428	+++++					AVRG		0.21734		4.22541
21 *Freon 113	0.16848	0.17489	0.17230	0.17790	0.16631	0.15533					
	+++++	+++++					AVRG		0.16920		4.72125
22 Acetone	10079	16702	96858	175036	241819	+++++					
	3369	+++++					QUAD	0.32608	15.44204	239	0.99409
23 *Iodomethane	18279	36660	248702	547814	1119237	2352430					
	+++++	+++++					WLINR	0.05222	0.26044		0.99836
24 Carbon Disulfide	0.75701	0.80451	0.75601	0.78871	0.74677	0.74411					
	0.77317	+++++					AVRG		0.76719		2.94853
25 *2-propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 *Acetonitrile	0.00383 +++++	0.00422 +++++	0.00475	0.00462	0.00476	0.00456	AVRG		0.00445		8.14195
27 Methylene Chloride	0.16394 +++++	0.17002 +++++	0.17677	0.15917	0.16942	0.16415	AVRG		0.16724		3.67368
28 *t-butanol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
29 *Acrylonitrile	0.03750 +++++	0.03812 +++++	0.03676	0.03790	0.03739	0.03639	AVRG		0.03734		1.76900
30 trans-1,2-Dichloroethene	0.27947 0.26097	0.29373 +++++	0.26414	0.28080	0.26814	0.27329	AVRG		0.27436		4.11876
31 *MTBE	0.23209 0.20950	0.23996 +++++	0.24521	0.25092	0.25472	0.25218	AVRG		0.24065		6.57365
32 *Hexane	0.67107 +++++	0.72649 +++++	0.70026	0.73176	0.71148	0.67662	AVRG		0.70295		3.58433

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
33 1,1-Dichloroethane (spcc)	0.64580	0.65450	0.63331	0.65214	0.64389	0.64745					
	0.56216	+++++					AVRG		0.63418		5.12138
34 *Vinyl Acetate	+++++	0.01047	0.01319	0.01361	0.01456	0.01484					
	+++++	+++++					AVRG		0.01333		13.02562
35 2,2-Dichloropropane	0.29772	0.30674	0.32676	0.36218	0.36096	0.35474					
	0.24637	+++++					AVRG		0.32221		13.14806
36 cis 1,2-Dichloroethene	0.25492	0.25393	0.25711	0.26279	0.25431	0.25365					
	0.23604	+++++					AVRG		0.25325		3.25015
37 2-Butanone	0.03893	0.03569	0.03616	0.03963	0.03873	0.03820					
	+++++	+++++					AVRG		0.03789		4.20824
38 Bromochloromethane	0.07896	0.06956	0.07458	0.07280	0.07190	0.06951					
	0.05015	+++++					AVRG		0.06964		13.19229
39 *THF	0.02459	0.02282	0.02311	0.02410	0.02397	0.02376					
	+++++	+++++					AVRG		0.02373		2.76137

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
40 Chloroform (ccc)	0.34499	0.37034	0.35947	0.37513	0.37388	0.37845					
	0.32695	+++++					AVRG		0.36132		5.26861
41 1,1,1-Trichloroethane	0.27979	0.29679	0.32080	0.35127	0.35435	0.36309					
	0.27250	+++++					AVRG		0.31980		11.71866
42 Carbon Tetrachloride	14271	29577	222376	551865	1165263	2475319					
	3974	+++++					WLINR	0.03395	0.26703		0.98928
43 1,1-Dichloropropene	0.34260	0.34843	0.34307	0.35671	0.34649	0.34286					
	0.31860	+++++					AVRG		0.34268		3.42082
44 Benzene	1.00101	1.01649	0.95672	0.97798	0.97028	0.96430					
	1.01631	+++++					AVRG		0.98616		2.52252
45 1,2-Dichloroethane	0.20895	0.22017	0.21136	0.21631	0.21642	0.21355					
	0.17502	+++++					AVRG		0.20883		7.35172
46 Trichloroethene	0.26634	0.29071	0.27954	0.29447	0.27971	0.27302					
	0.25803	+++++					AVRG		0.27740		4.64315

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
47 1,2-Dichloropropane (ccc)	0.26775	0.28155	0.27157	0.28031	0.27549	0.26686					
	0.24255	+++++					AVRG		0.26944		4.88266
48 *Methyl Methacrylate	0.07174	0.07835	0.08986	0.09573	0.09810	0.09657					
	+++++	+++++					AVRG		0.08839		12.34440
49 Dibromomethane	0.05539	0.05726	0.05891	0.06022	0.05681	0.05737					
	0.04681	+++++					AVRG		0.05611		7.80343
50 Bromodichloromethane	13084	28405	180001	389855	793046	1662952					
	3188	+++++					LINR	0.07341	0.18710		0.99972
51 *2-Chloroethylvinylether	0.05925	0.06288	0.06006	0.06238	0.06226	0.06008					
	+++++	+++++					AVRG		0.06115		2.49960
52 cis-1,3-Dichloropropene	0.20364	0.20643	0.21727	0.23648	0.23777	0.23313					
	0.19674	+++++					AVRG		0.21878		7.80488
53 4-Methyl-2-pentanone	0.08512	0.08785	0.08561	0.09099	0.08897	0.08543					
	+++++	+++++					AVRG		0.08733		2.69996

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
54 Toluene (ccc)	5.66178	5.84420	5.76650	5.83844	5.68813	5.68699					
	5.35131	+++++					AVRG		5.69105		2.93303
55 trans-1,3-Dichloropropene	13777	25501	160005	345095	671229	1388723					
	3165	+++++					LINR	0.06253	0.90961		0.99945
56 *Ethyl Methacrylate	0.37164	0.42381	0.51299	0.54476	0.52652	0.53732					
	+++++	+++++					AVRG		0.48617		14.66109
57 1,1,2-Trichloroethane	0.47248	0.44836	0.48103	0.49239	0.46614	0.47033					
	0.40264	+++++					AVRG		0.46191		6.36837
58 Tetrachloroethene	1.19633	1.20170	1.19342	1.19831	1.12973	1.11641					
	1.22706	+++++					AVRG		1.18042		3.46481
59 1,3-Dichloropropane	0.78738	0.81217	0.82168	0.82470	0.79535	0.81074					
	0.81547	+++++					AVRG		0.80964		1.68234
60 2-Hexanone	0.28315	0.29721	0.32006	0.33176	0.31017	0.31437					
	+++++	+++++					AVRG		0.30945		5.55311

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
61 Chlorodibromomethane	4945	10189	77270	186739	396499	826913					
	+++++	+++++					WLINR	0.07711	0.52660		0.99460
62 1,2-Dibromoethane	0.40448	0.43067	0.42100	0.43143	0.42338	0.42591					
	0.35862	+++++					AVRG		0.41364		6.25609
63 Chlorobenzene (spcc)	3.20201	3.29503	3.24735	3.31002	3.18083	3.14486					
	2.85479	+++++					AVRG		3.17641		4.84434
64 1,1,1,2-Tetrachloroethane	7918	17364	132522	309111	635577	1296966					
	2102	+++++					WLINR	0.03228	0.82671		0.99363
65 Ethylbenzene (ccc)	2.08636	2.11892	2.09532	2.13326	2.05057	2.00752					
	1.83495	+++++					AVRG		2.04670		5.00790
66 m&p-Xylene	2.52686	2.63318	2.54972	2.59568	2.49295	2.21057					
	2.31105	+++++					AVRG		2.47429		6.28243
67 o-Xylene	2.20819	2.26912	2.25571	2.28112	2.20686	2.14238					
	1.93445	+++++					AVRG		2.18540		5.50752

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
68 Styrene	3.12714	3.19372	3.09953	3.11832	3.06862	2.99009						
	2.88091	+++++					AVRG		3.06833		3.36337	
69 Bromoform (spcc)	902	3151	23227	69535	155740	+++++						
	342	212					QUAD	0.08012	6.26987	-1.75323	0.99532	<-
70 Isopropylbenzene	6.30752	6.33819	6.36998	6.55612	6.43651	6.13585						
	5.84396	+++++					AVRG		6.28402		3.69664	
71 *cis-1,4-dichloro-2-butene	738	1185	12831	31704	72559	157150						
	+++++	+++++					QUAD	0.15516	11.26527	-2.12891	0.99928	
72 Bromobenzene	0.92356	0.97997	0.95738	0.96057	0.94353	0.93592						
	0.83641	+++++					AVRG		0.93391		5.00190	
73 1,1,2,2-Tetrachloroethane(sp)	0.34273	0.30777	0.35534	0.38213	0.35643	0.36745						
	0.30010	+++++					AVRG		0.34456		8.80806	
74 1,2,3-Trichloropropane	0.09267	0.08765	0.08499	0.08759	0.08062	0.08662						
	0.08253	+++++					AVRG		0.08610		4.54883	

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
75 *trans-1,4-dichloro-2-butene	2278	3994	27019	59782	118001	245666					
	+++++	+++++					WLINR	0.04782	0.13103		0.99828
76 n-Propylbenzene	5.96494	6.11612	6.19261	6.44322	6.26175	5.99846					
	5.39283	+++++					AVRG		6.05285		5.50377
77 2-Chlorotoluene	3.14181	3.28575	3.21817	3.35392	3.22163	3.24224					
	3.00673	+++++					AVRG		3.21004		3.45167
78 1,3,5-Trimethylbenzene	4.03992	4.12422	4.15686	4.36781	4.14541	3.94215					
	3.73263	+++++					AVRG		4.07272		4.86840
79 4-Chlorotoluene	3.27371	3.48013	3.55695	3.65907	3.48239	3.33248					
	3.08613	+++++					AVRG		3.41012		5.65671
80 tert-Butylbenzene	3.64684	3.67540	3.72929	3.90358	3.74329	3.69878					
	3.12829	+++++					AVRG		3.64650		6.66515
81 1,2,4-Trimethylbenzene	3.71384	3.90063	3.88108	4.03642	3.91567	3.87960					
	3.45797	+++++					AVRG		3.82646		4.91031

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Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
82 sec-Butylbenzene	5.30372	5.46178	5.46334	5.71048	5.56407	5.54357					
	4.57918	+++++					AVRG		5.37516		6.92138
83 1,3-Dichlorobenzene	1.71409	1.74310	1.75390	1.84572	1.76435	1.77031					
	1.66185	+++++					AVRG		1.75048		3.20630
84 p-Isopropyltoluene	4.79696	4.70342	4.76514	5.03207	4.82664	4.59939					
	4.29136	+++++					AVRG		4.71643		4.85951
85 1,4-Dichlorobenzene	1.73244	1.67542	1.61201	1.69818	1.59773	1.53045					
	1.55151	+++++					AVRG		1.62825		4.66508
86 1,2-Dichlorobenzene	1.23043	1.25519	1.33636	1.39769	1.31502	1.31968					
	1.18565	+++++					AVRG		1.29143		5.55576
87 n-Butylbenzene	4.06519	4.15174	4.20853	4.43258	4.34031	4.39406					
	3.93656	+++++					AVRG		4.21842		4.31757
88 1,2-Dibromo-3-chloropropane	575	1118	9124	22173	45425	94455					
	+++++	+++++					WLINR	0.07684	0.05018		0.99601

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STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89 1,2,4-Trichlorobenzene	0.74356 +++++	0.78186 +++++	0.78131	0.82745	0.78629	0.77582	AVRG		0.78272		3.42713
90 Hexachlorobutadiene	0.67700 +++++	0.74831 +++++	0.74432	0.78646	0.74560	0.70254	AVRG		0.73404		5.25404
91 Napthalene	0.77442 +++++	0.77886 +++++	0.79251	0.88395	0.83651	0.85866	AVRG		0.82082		5.55067
92 1,2,3-Trichlorobenzene	0.44745 +++++	0.52129 +++++	0.50470	0.55826	0.53363	0.52833	AVRG		0.51561		7.31033
M 93 *1,4-dichloro-2-butene(total)	0.07417 +++++	0.06756 +++++	0.10094	0.11806	0.12278	0.13193	AVRG		0.10257		25.96262
$ 4 Dibromofluoromethane	0.15507 +++++	0.14487 +++++	0.16212	0.17185	0.16727	+++++	AVRG		0.16024		6.62582
$ 5 1,2-Dichloroethane-d4	0.14002 +++++	0.12960 +++++	0.13910	0.14225	0.14185	+++++	AVRG		0.13856		3.73480

Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 6 Toluene-d8	4.35051	4.13967	4.48662	4.57792	4.41441	+++++					
	+++++	+++++					AVRG		4.39383		3.76377
$ 7 4-Bromofluorobenzene	1.06393	0.95714	0.98690	1.04723	0.98731	+++++					
	+++++	+++++					AVRG		1.00850		4.46933

Report Date : 28-Mar-2006 11:42

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Start Cal Date : 24-MAR-2006 13:51
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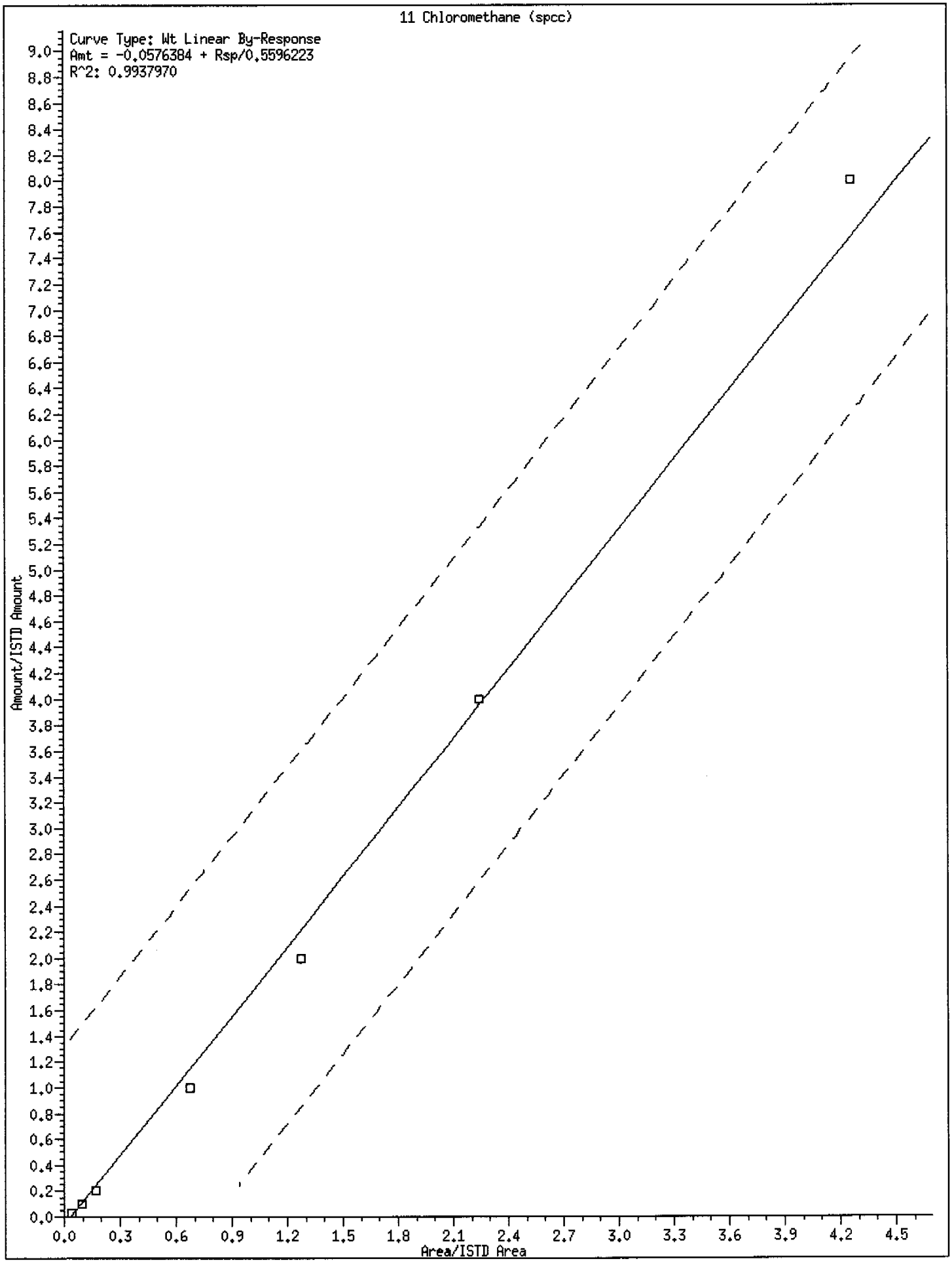
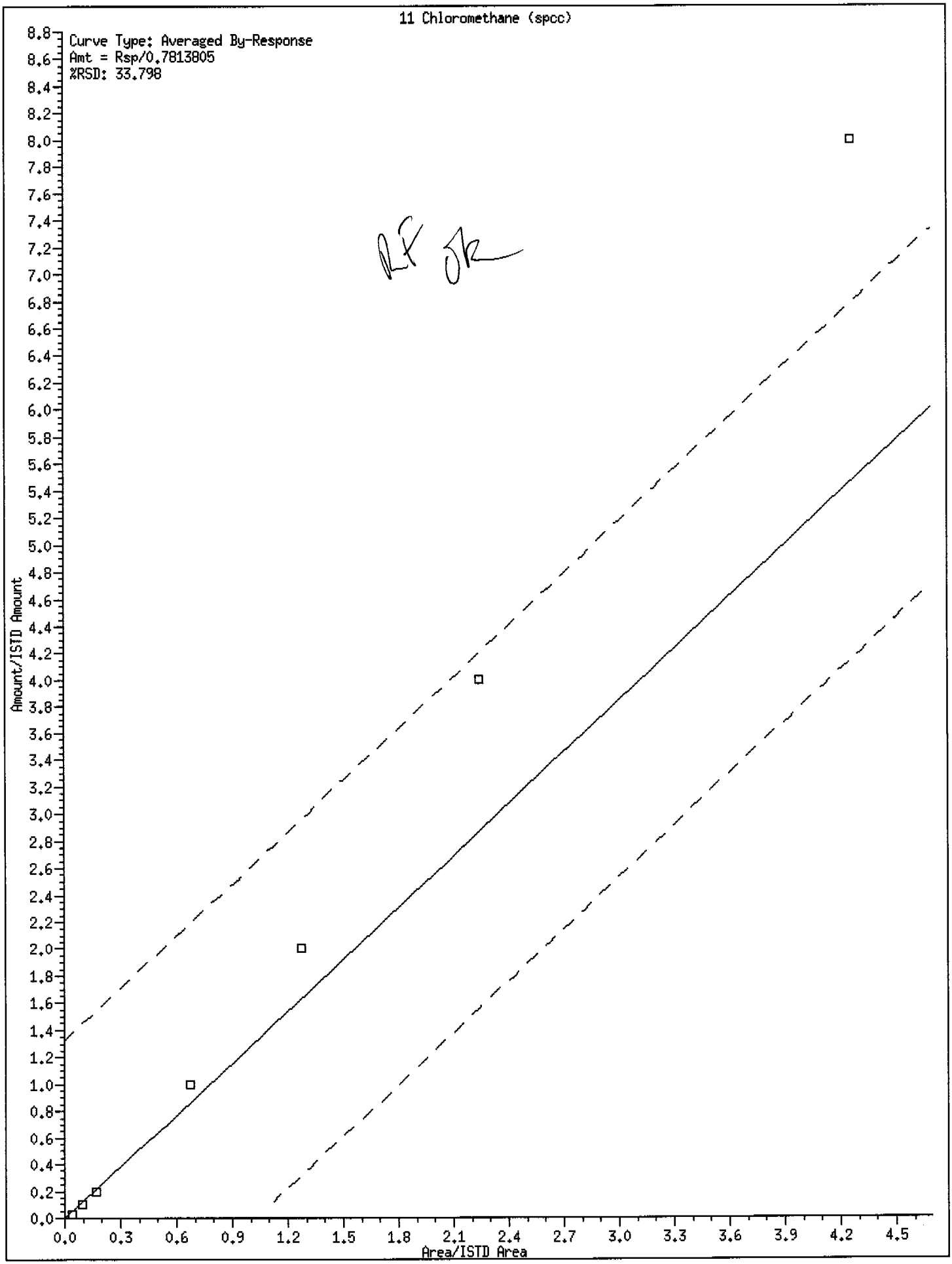
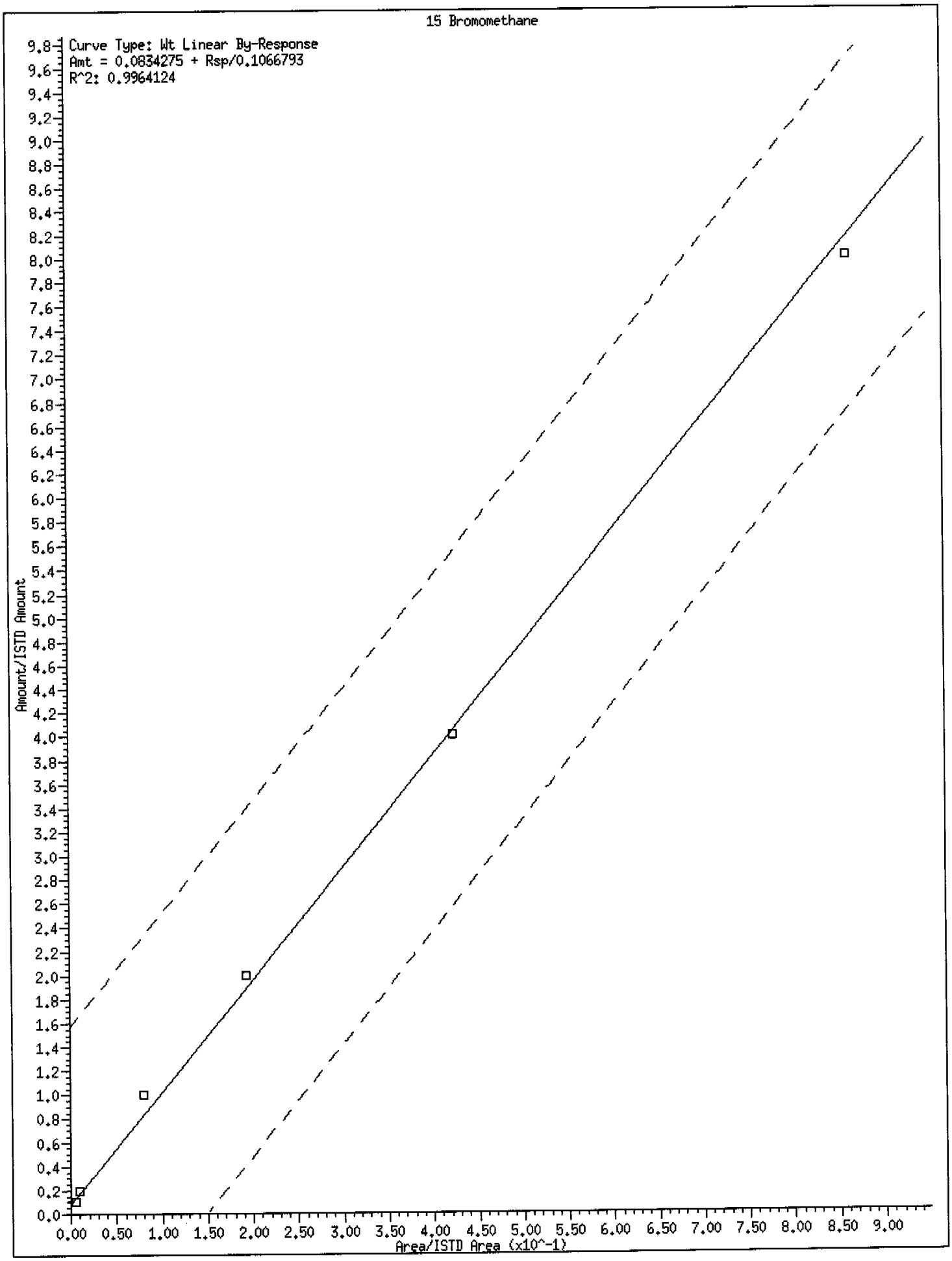
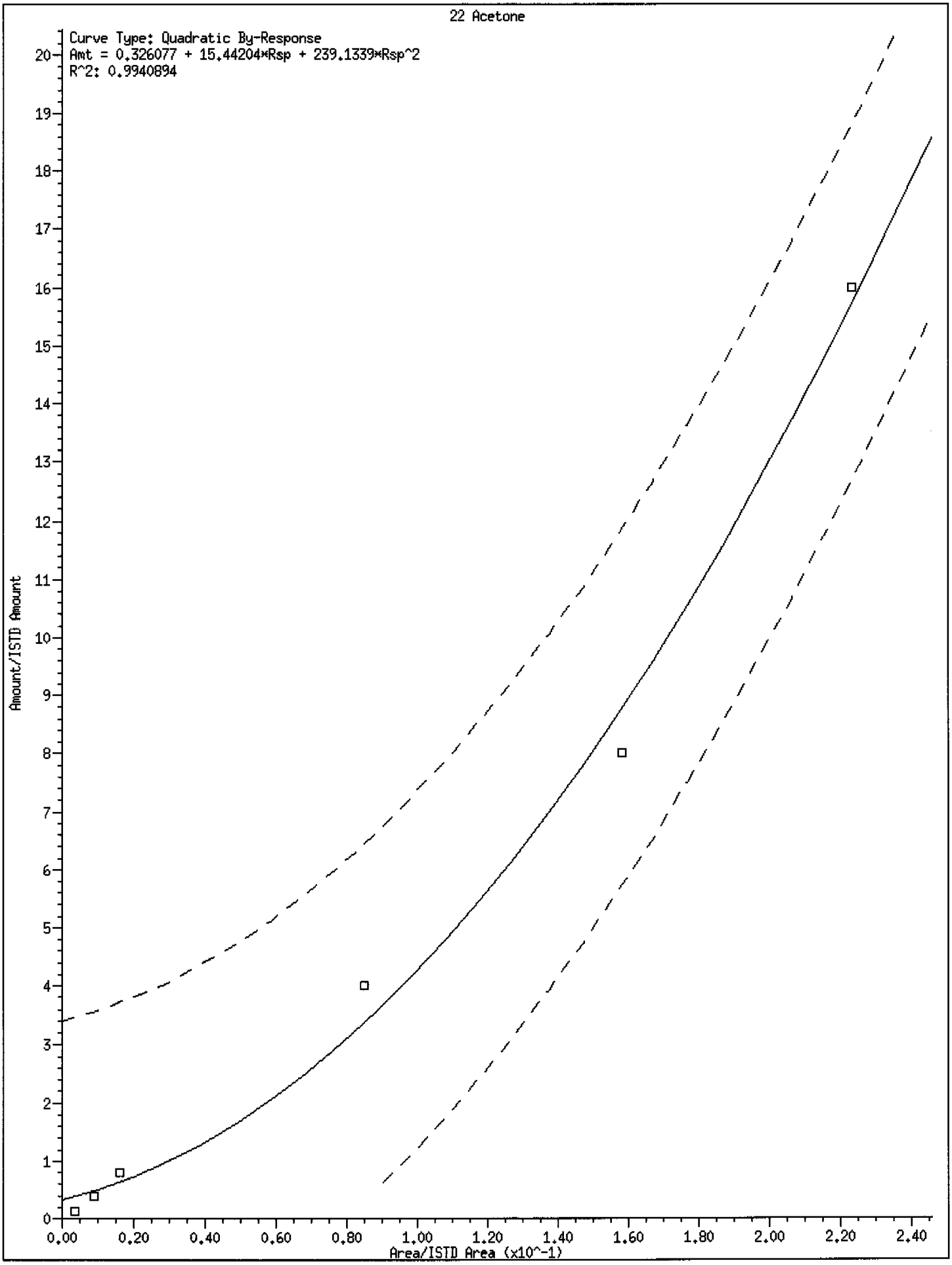
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

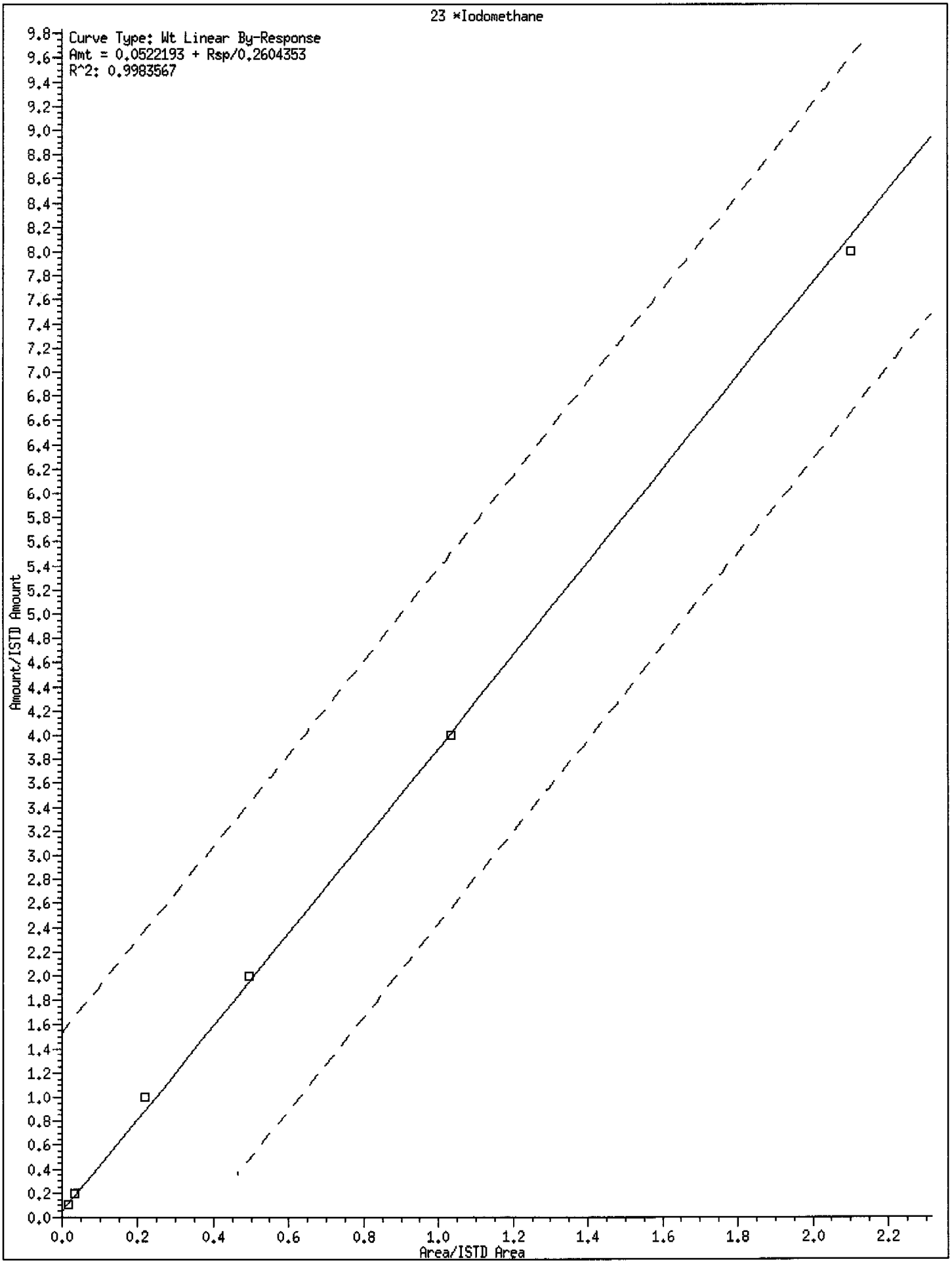
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

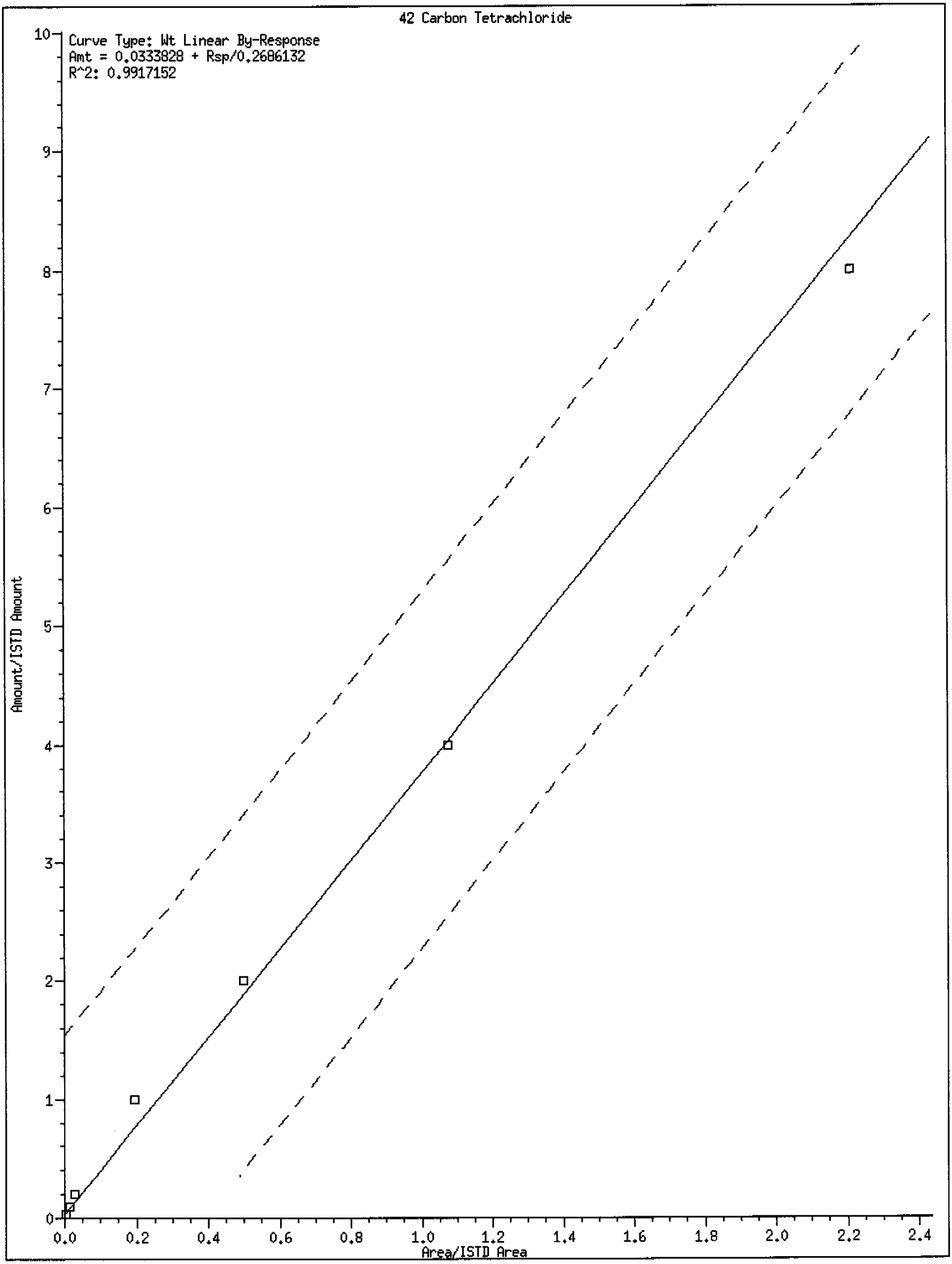

11 Chloromethane (spcc)
Curve Type: Wt Linear By-Response
Amt = -0.0576384 + Rsp/0.5596223
R^2: 0.9937970
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

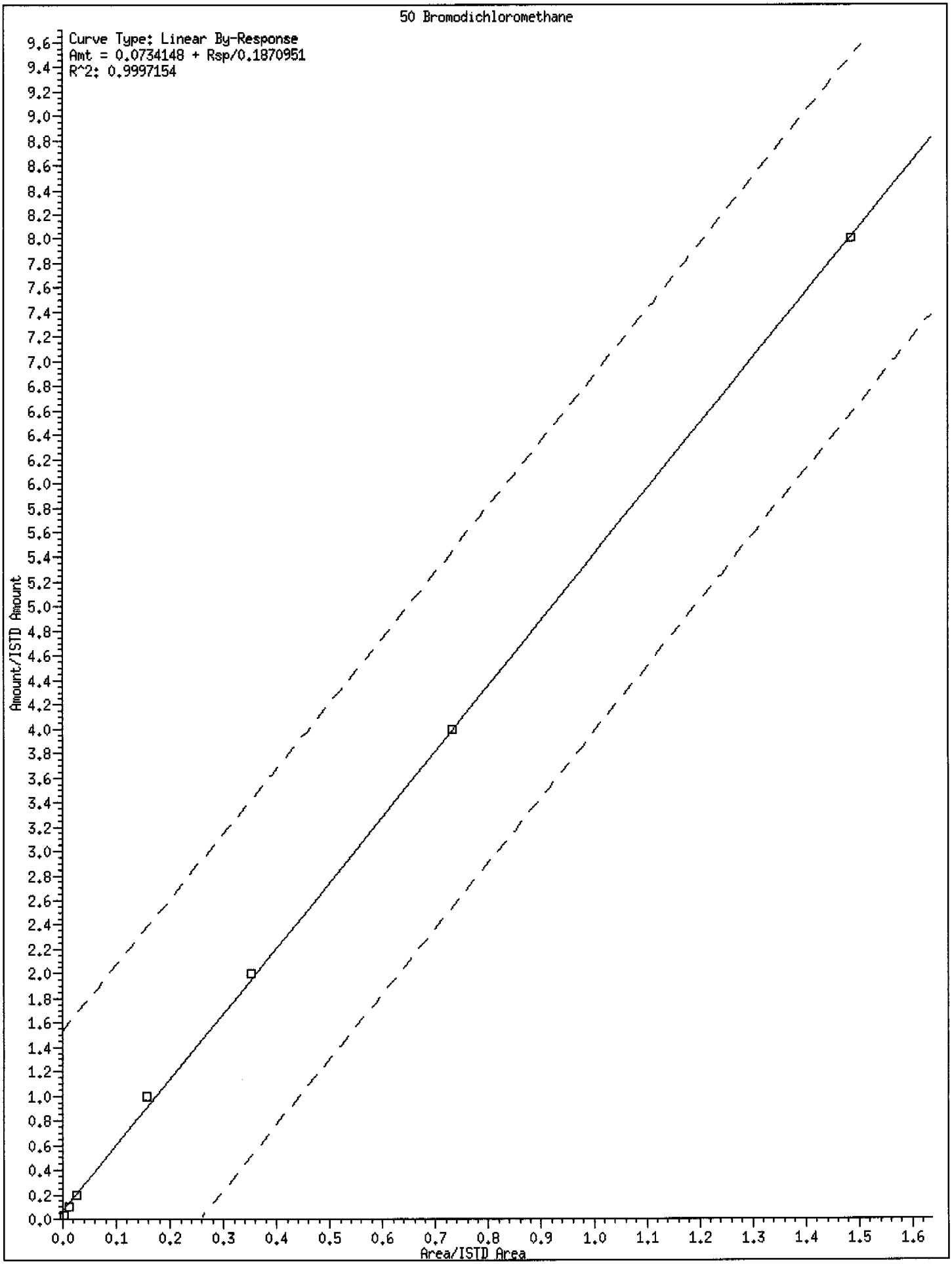

11 Chloromethane (spcc)
Curve Type: Averaged By-Response
Amt = Rsp/0.7813805
%RSD: 33.798
Amount/ISTD Amount
Area/ISTD Area
RF OK

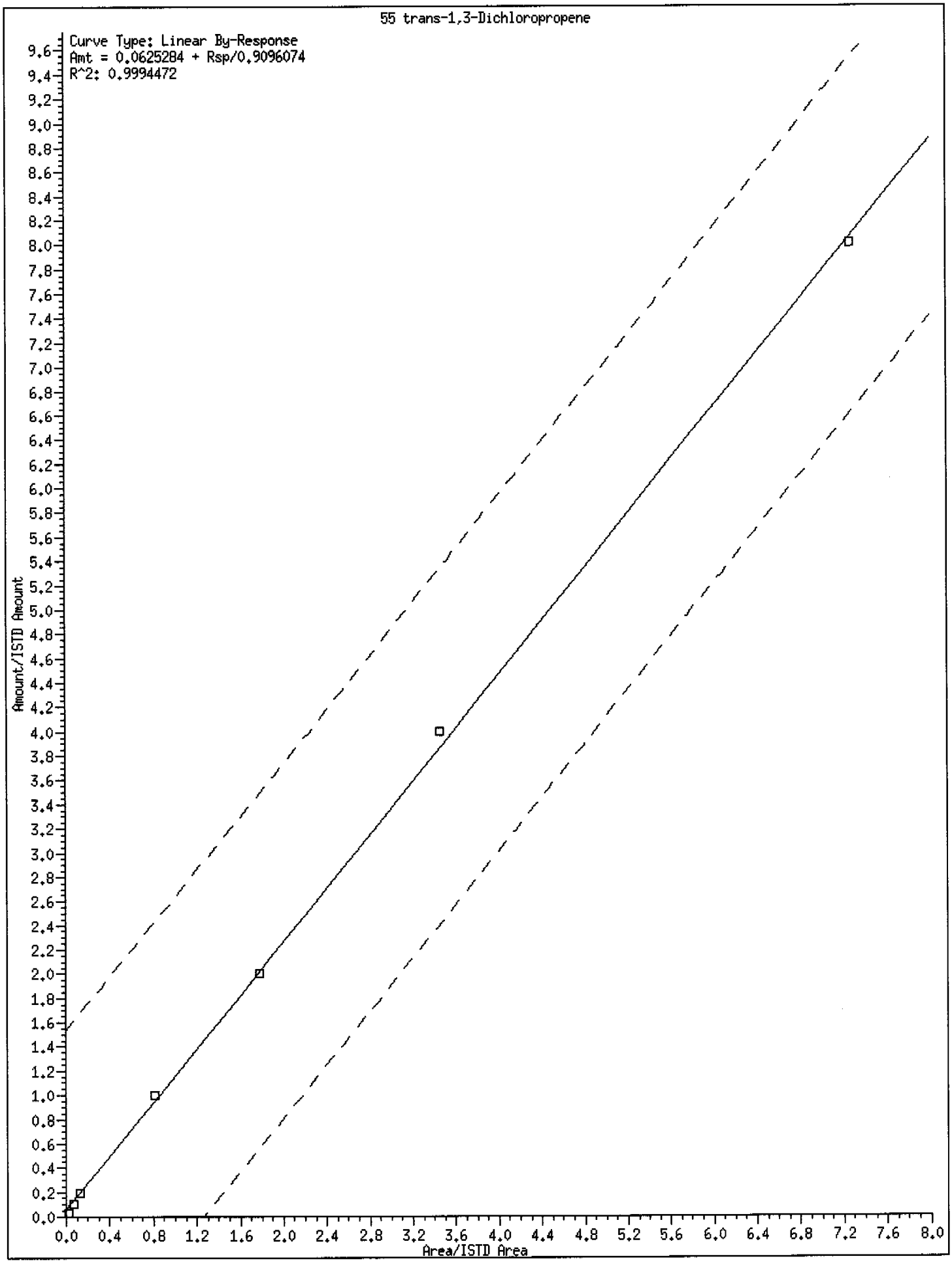

15 Bromomethane
Curve Type: Wt Linear By-Response
Amt = 0.0834275 + Rsp/0.1066793
R^2: 0.9964124
Amount/ISTD Amount
Area/ISTD Area (x10^-1)

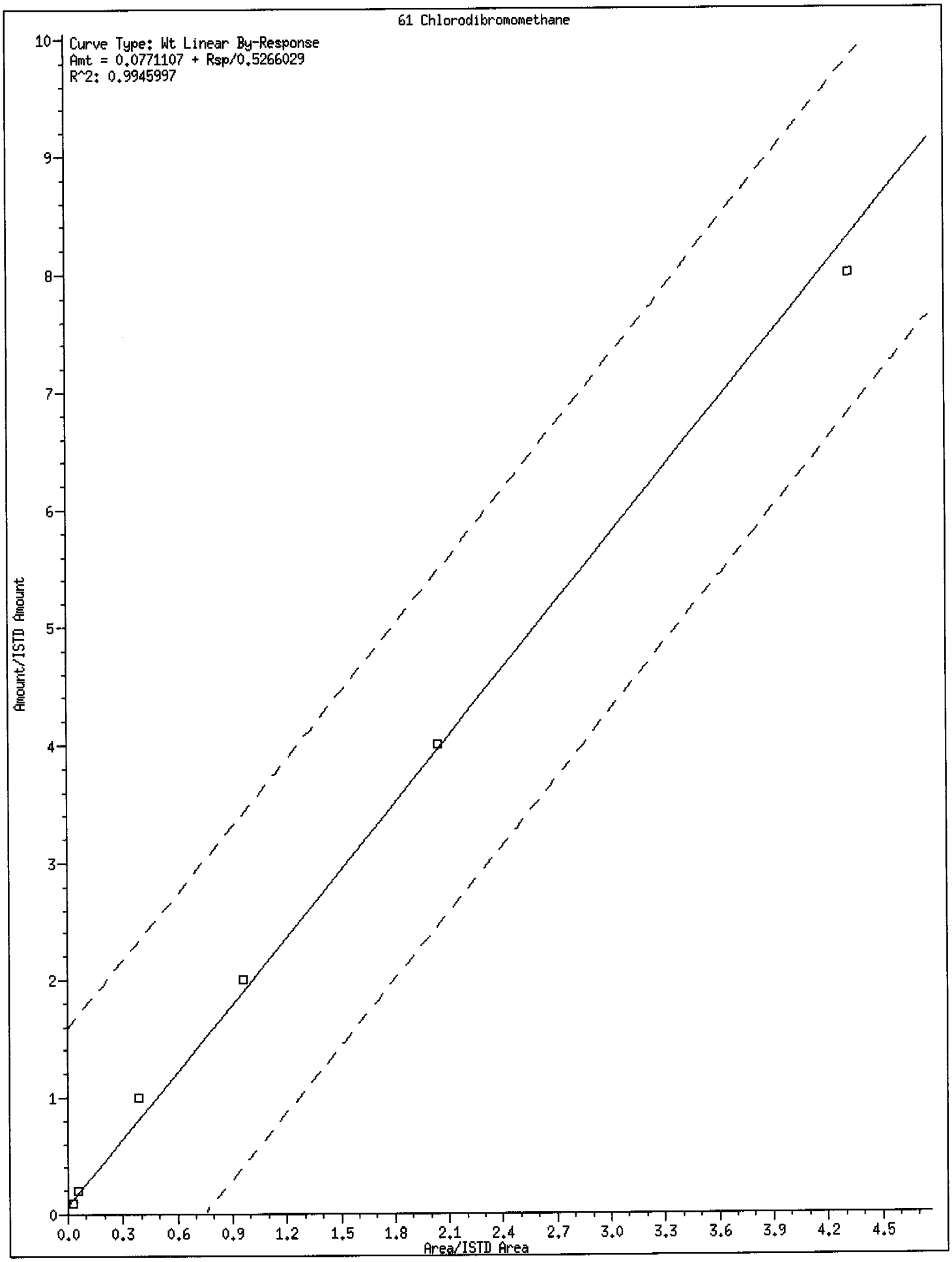

22 Acetone
Curve Type: Quadratic By-Response
Amt = 0.326077 + 15.44204*Rsp + 239.1339*Rsp^2
R^2: 0.9940894
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40

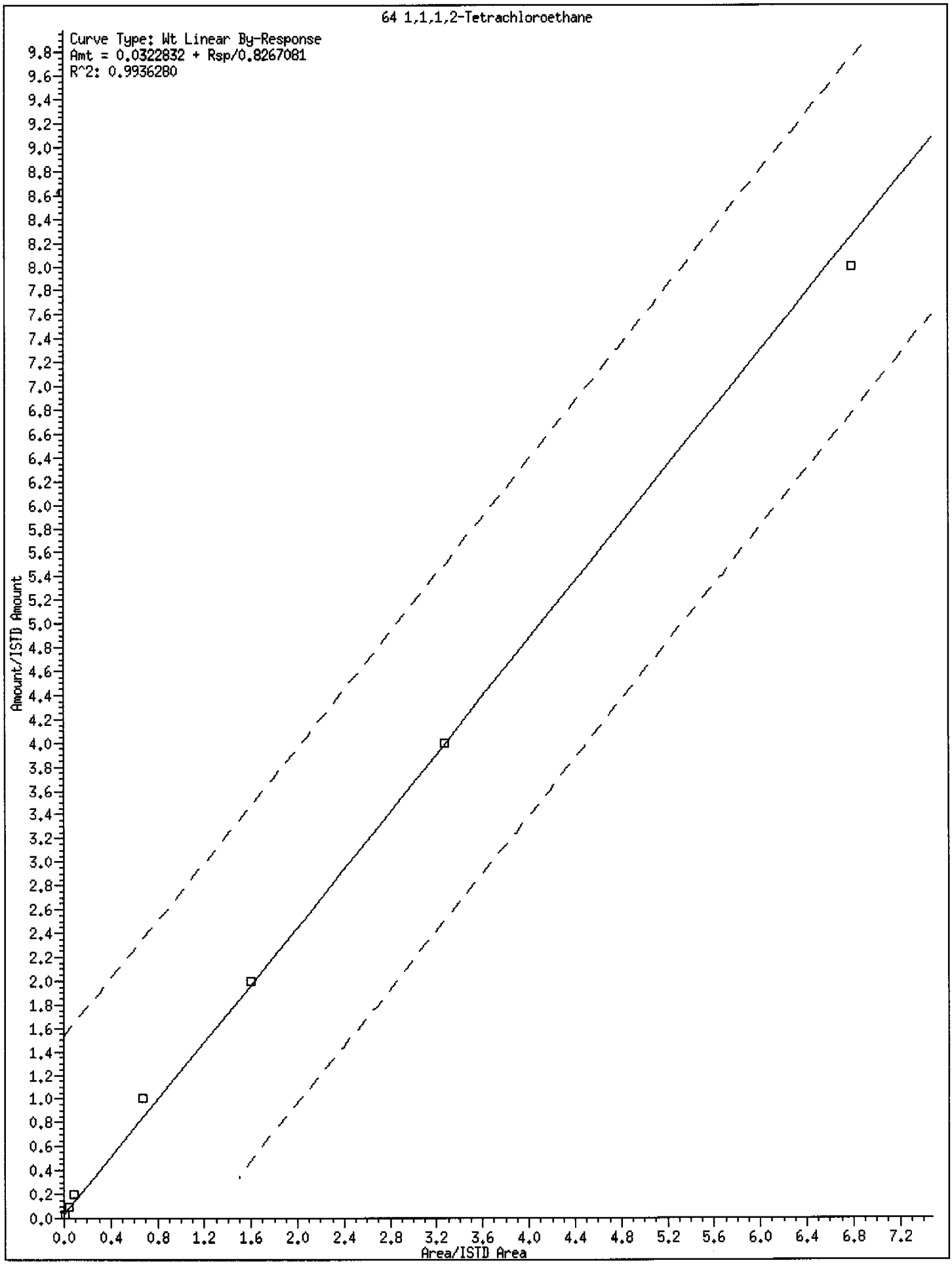

23 *Iodomethane
Curve Type: Wt Linear By-Response
Amt = 0.0522193 + Rsp/0.2604353
R^2: 0.9983567
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
9.8
9.6
9.4
9.2
9.0
8.8
8.6
8.4
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

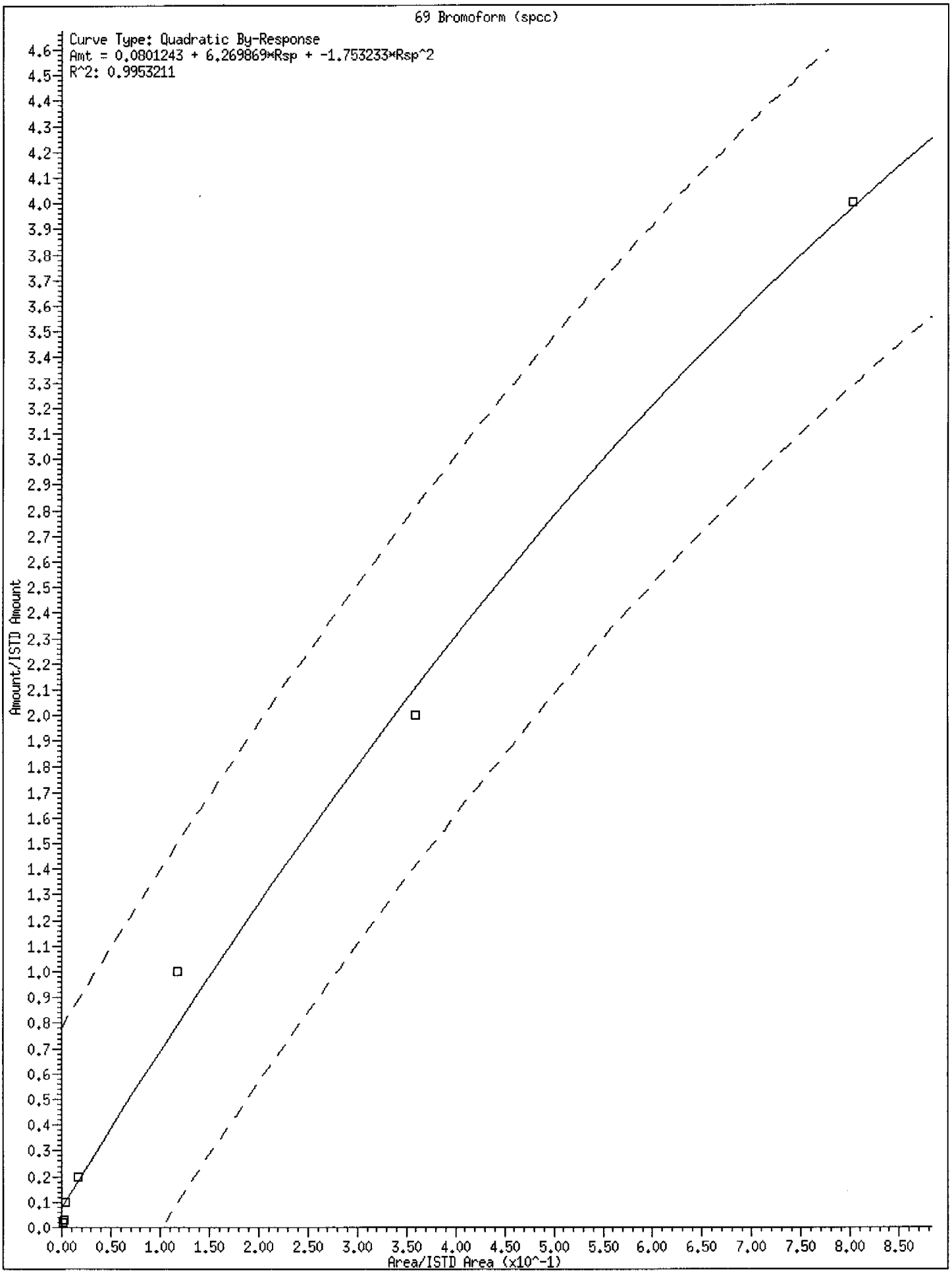

42 Carbon Tetrachloride
Curve Type: Wt Linear By-Response
Amt = 0.0333828 + Rsp/0.2686132
R^2: 0.9917152
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4

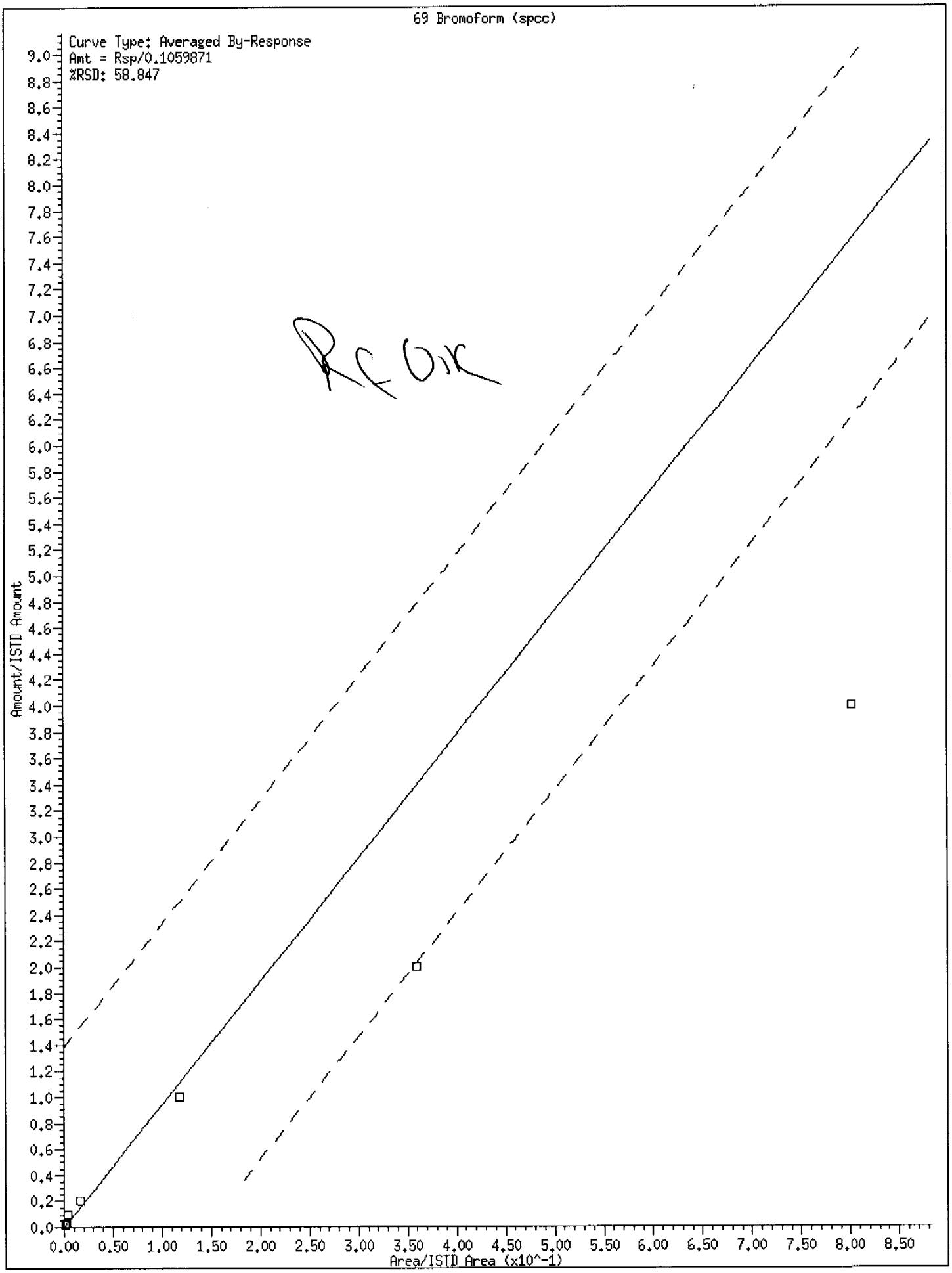

50 Bromodichloromethane
Curve Type: Linear By-Response
Amt = 0.0734148 + Rsp/0.1870951
R^2: 0.9997154
Amount/ISTD Amount
Area/ISTD Area

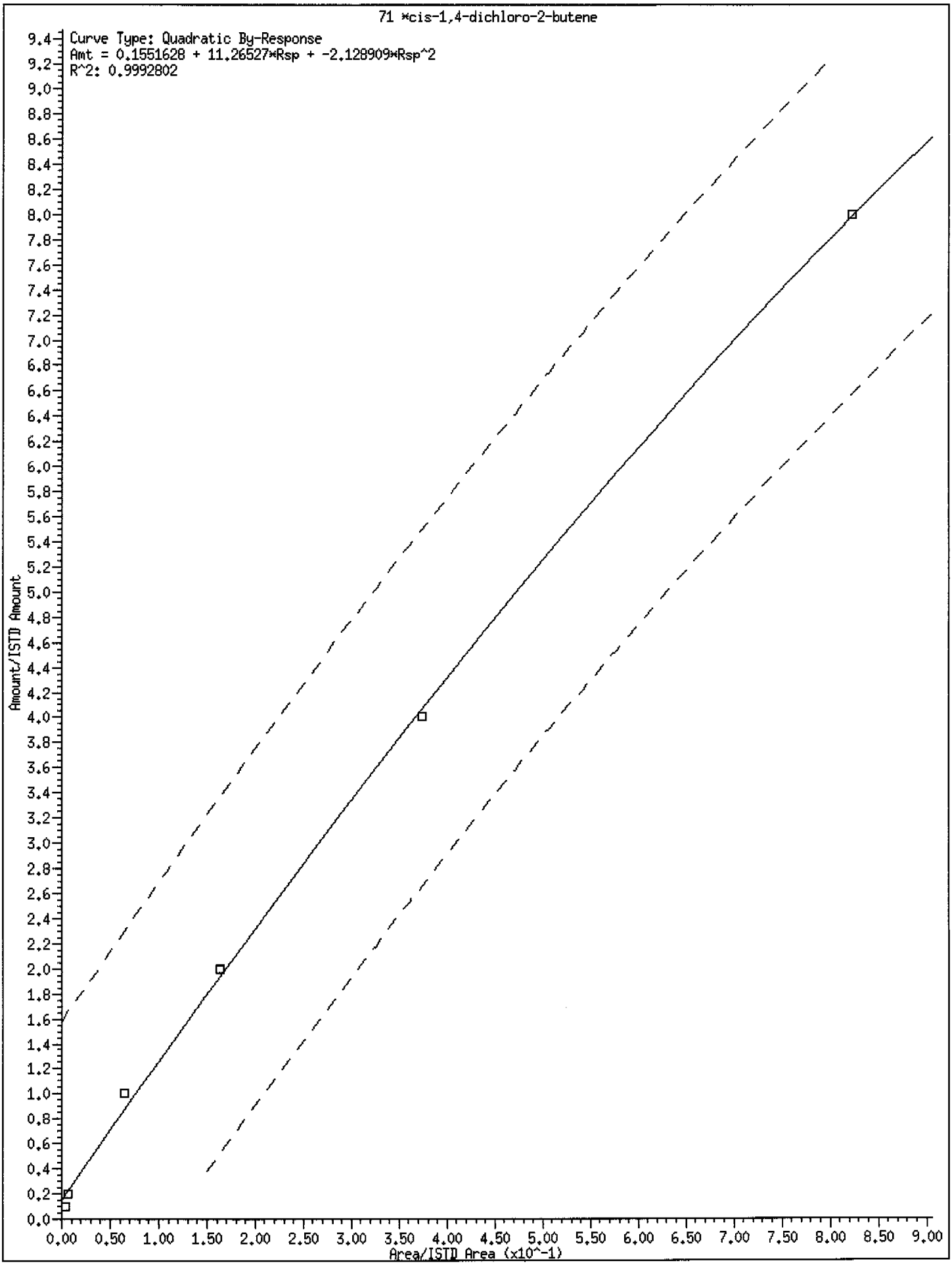

55 trans-1,3-Dichloropropene
Curve Type: Linear By-Response
Amt = 0.0625284 + Rsp/0.9096074
R^2: 0.9994472
Amount/ISTD Amount
Area/ISTD Area

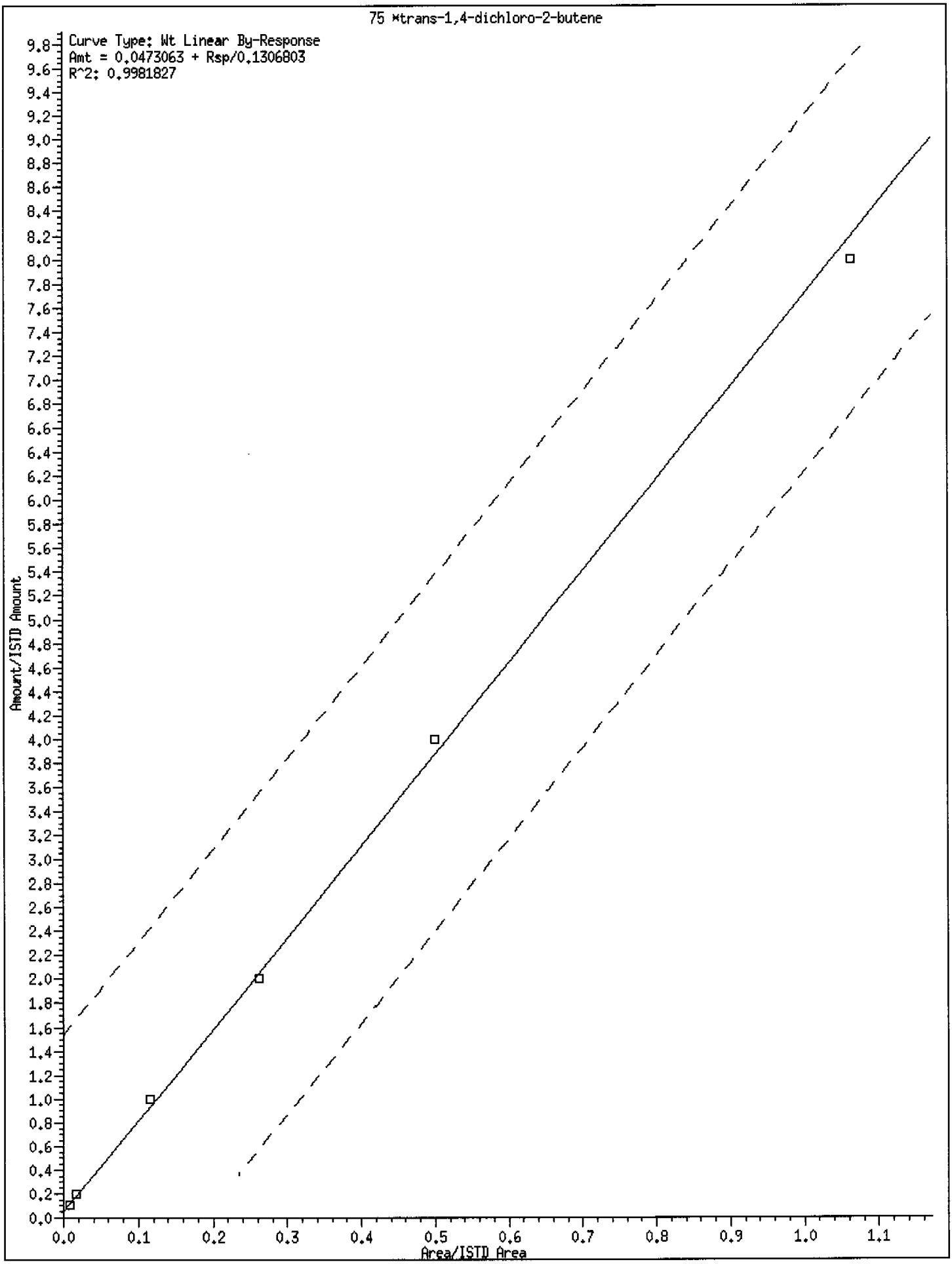

61 Chlorodibromomethane
Curve Type: Wt Linear By-Response
Amt = 0.0771107 + Rsp/0.5266029
R^2: 0.9945997
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

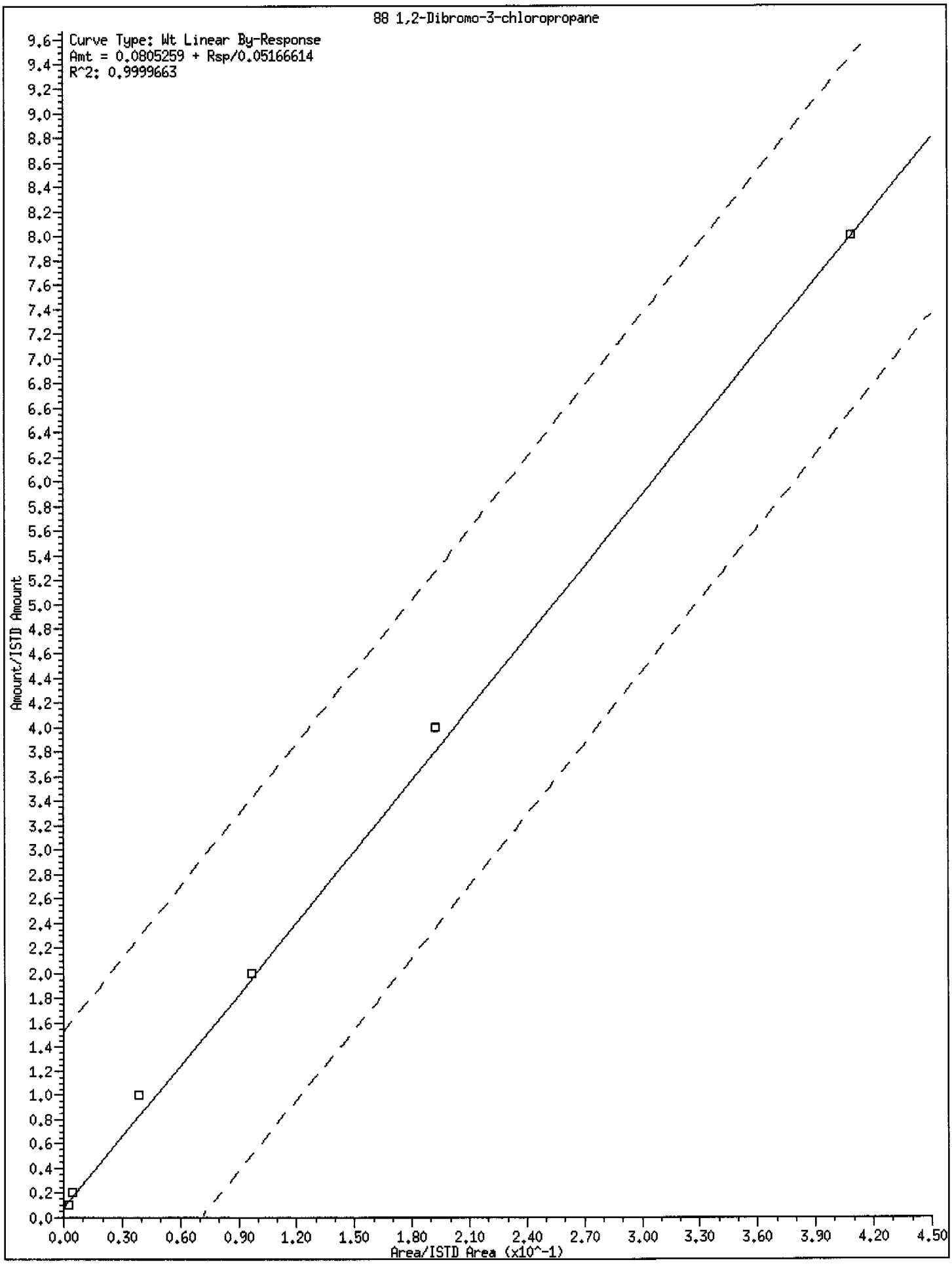

64 1,1,1,2-Tetrachloroethane
Curve Type: Wt Linear By-Response
Amt = 0.0322832 + Rsp/0.8267081
R^2: 0.9936280
Amount/ISTD Amount
Area/ISTD Area


69 Bromoform (spcc)
Curve Type: Quadratic By-Response
Amt = 0.0801243 + 6.269869*Rsp + -1.753233*Rsp^2
R^2: 0.9953211
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


69 Bromoform (spcc)
Curve Type: Averaged By-Response
Amt = Rsp/0.1059871
%RSD: 58.847
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
Rf OK


71 *cis-1,4-dichloro-2-butene
Curve Type: Quadratic By-Response
Amt = 0.1551628 + 11.26527*Rsp + -2.128909*Rsp^2
R^2: 0.9992802
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


75 *trans-1,4-dichloro-2-butene
Curve Type: Wt Linear By-Response
Amt = 0.0473063 + Rsp/0.1306803
R^2: 0.9981827
Amount/ISTD Amount
Area/ISTD Area


88 1,2-Dibromo-3-chloropropane
Curve Type: Wt Linear By-Response
Amt = 0.0805259 + Rsp/0.05166614
R^2: 0.9999663
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
9.6
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Report Date: 28-Mar-2006 11:57

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Lab Smp Id: ICVZC248 Client Smp ID: STD0.20
Inj Date : 24-MAR-2006 13:51
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC248,1,1,8,,STD0.20
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 28-Mar-2006 11:57 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.662	5.666	(1.000)	1039615	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.927	(1.000)	188148	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	249950	10.0000	
$ 4 Dibromofluoromethane	113	4.835	4.826	(0.854)	3794	0.20000	0.22775
$ 5 1,2-Dichloroethane-d4	65	5.230	5.228	(0.924)	4138	0.20000	0.28726
$ 6 Toluene-d8	98	7.451	7.455	(0.834)	24821	0.20000	0.30024
$ 7 4-Bromofluorobenzene	95	10.121	10.119	(0.881)	7329	0.20000	0.29075
M 8 1,2-Dichloroethene (total)	96				9452	0.20000	0.34343
M 9 Xylene (total)	106				27923	0.20000	0.62429
10 Dichlorodifluoromethane	85	1.014	1.012	(0.179)	3684	0.20000	0.14517
12 Vinyl Chloride (ccc)	62	1.197	1.195	(0.211)	5728	0.20000	0.13989
13 *1,3-Butadiene	39	1.221	1.219	(0.216)	6288	0.20000	0.17029
15 Bromomethane	94	1.404	1.414	(0.248)	1909	0.20000	1.0064
16 Chloroethane	64	1.483	1.481	(0.262)	3816	0.20000	0.19681
17 *Vinyl Bromide	106	1.617	1.614	(0.286)	3137	0.20000	0.18110
18 Trichlorofluoromethane	101	1.665	1.669	(0.294)	4821	0.20000	0.15172

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Report Date: 28-Mar-2006 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19 *2-Chloropropane	43	1.951	1.949	(0.345)	11552	0.20000	0.16797
20 1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.365)	3882	0.20000	0.17181
21 *Freon 113	151	2.085	2.083	(0.368)	3028	0.20000	0.17214
22 Acetone	43	2.116	2.125	(0.374)	5091	0.80000	4.0743(M)
23 *Iodomethane	142	2.176	2.180	(0.384)	2845	0.20000	0.62727
24 Carbon Disulfide	76	2.231	2.229	(0.394)	14293	0.20000	0.17920
26 *Acetonitrile	40	2.377	2.369	(0.420)	5831	0.20000	12.590
27 Methylene Chloride	84	2.505	2.503	(0.442)	3368	0.20000	0.19371
29 *Acrylonitrile	53	2.754	2.758	(0.486)	11997	0.20000	3.0903
30 trans-1,2-Dichloroethene	96	2.791	2.795	(0.493)	5329	0.20000	0.18683
31 *MTBE	73	2.821	2.819	(0.498)	4220	0.20000	0.16867
32 *Hexane	57	3.138	3.135	(0.554)	24054	0.20000	0.32915
33 1,1-Dichloroethane (spcc)	63	3.271	3.275	(0.578)	10609	0.20000	0.16091
34 *Vinyl Acetate	86	3.125	3.409	(0.552)	2185	0.20000	1.5764
35 2,2-Dichloropropane	77	4.087	4.096	(0.722)	4391	0.20000	0.13108
36 cis 1,2-Dichloroethene	96	4.105	4.115	(0.725)	4123	0.20000	0.15660
37 2-Butanone	43	4.184	4.169	(0.739)	4504	0.20000	1.1434
38 Bromochloromethane	128	4.433	4.449	(0.783)	1305	0.20000	0.18026
39 *THF	42	4.525	4.528	(0.799)	8242	0.20000	3.3414
40 Chloroform (ccc)	83	4.604	4.607	(0.813)	5857	0.20000	0.15592
41 1,1,1-Trichloroethane	97	4.804	4.814	(0.848)	4210	0.20000	0.12663
42 Carbon Tetrachloride	117	5.048	5.039	(0.891)	1716	0.20000	0.40131
43 1,1-Dichloropropene	75	5.036	5.039	(0.889)	6040	0.20000	0.16954
44 Benzene	78	5.291	5.295	(0.934)	21327	0.20000	0.20802
45 1,2-Dichloroethane	62	5.328	5.325	(0.941)	3506	0.20000	0.16149
46 Trichloroethene	130	6.106	6.110	(1.078)	5762	0.20000	0.19980
47 1,2-Dichloropropane (ccc)	63	6.344	6.341	(1.120)	4586	0.20000	0.16372
48 *Methyl Methacrylate	41	6.581	6.572	(1.162)	1273	0.20000	0.13853
49 Dibromomethane	93	6.471	6.469	(1.143)	1010	0.20000	0.17315
51 *2-Chloroethylvinylether	63	7.067	7.065	(1.248)	1933	0.20000	0.30405
52 cis-1,3-Dichloropropene	75	7.183	7.181	(1.269)	3380	0.20000	0.14860
53 4-Methyl-2-pentanone	43	7.384	7.375	(1.304)	6975	0.20000	0.76828
54 Toluene (ccc)	91	7.524	7.528	(0.843)	18847	0.20000	0.17602
55 trans-1,3-Dichloropropene	75	7.779	7.783	(0.871)	1661	0.20000	0.72234
56 *Ethyl Methacrylate	69	7.937	7.929	(0.889)	922	0.20000	0.10080
57 1,1,2-Trichloroethane	97	7.950	7.959	(0.890)	1306	0.20000	0.15028
58 Tetrachloroethene	164	8.089	8.093	(0.906)	4234	0.20000	0.19064
59 1,3-Dichloropropane	76	8.120	8.118	(0.909)	2381	0.20000	0.15630
60 2-Hexanone	43	8.254	8.251	(0.924)	4568	0.20000	0.78457
61 Chlorodibromomethane	129	8.083	8.349	(0.905)	3664	0.20000	1.1409
62 1,2-Dibromoethane	107	8.430	8.434	(0.944)	1108	0.20000	0.14237
63 Chlorobenzene (spcc)	112	8.953	8.957	(1.003)	11506	0.20000	0.19252
64 1,1,1,2-Tetrachloroethane	131	9.057	9.054	(1.014)	955	0.20000	0.38423
65 Ethylbenzene (ccc)	106	9.093	9.091	(1.018)	7631	0.20000	0.19816
66 m&p-Xylene	106	9.215	9.219	(1.032)	19302	0.20000	0.41462
67 o-Xylene	106	9.610	9.608	(1.076)	8621	0.20000	0.20966
68 Styrene	104	9.623	9.620	(1.078)	11877	0.20000	0.20573

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Report Date: 28-Mar-2006 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	69 Bromoform (spcc)	173	9.781	9.778	(1.095)	212	0.20000	0.87187(M)
	70 Isopropylbenzene	105	9.988	9.991	(1.119)	22397	0.20000	0.18943
	71 *cis-1,4-dichloro-2-butene	88	10.121	10.052	(1.134)	346	0.20000	1.7587
	72 Bromobenzene	156	10.255	10.253	(1.149)	3330	0.20000	0.18951
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.286	10.289	(1.152)	1161	0.20000	0.17909
	75 *trans-1,4-dichloro-2-butene	53	10.401	10.350	(0.906)	161	0.20000	0.52735
	76 n-Propylbenzene	91	10.407	10.405	(0.906)	30665	0.20000	0.20269
	77 2-Chlorotoluene	91	10.474	10.472	(0.912)	16353	0.20000	0.20381
	78 1,3,5-Trimethylbenzene	105	10.614	10.612	(0.924)	23676	0.20000	0.23258
	79 4-Chlorotoluene	91	10.596	10.594	(0.923)	17627	0.20000	0.20680
	80 tert-Butylbenzene	119	10.985	10.989	(0.957)	17500	0.20000	0.19200
	81 1,2,4-Trimethylbenzene	105	11.052	11.050	(0.962)	22941	0.20000	0.23986
	82 sec-Butylbenzene	105	11.283	11.281	(0.983)	27151	0.20000	0.20209
	83 1,3-Dichlorobenzene	146	11.381	11.384	(0.991)	11135	0.20000	0.25450
	84 p-Isopropyltoluene	119	11.496	11.500	(1.001)	25189	0.20000	0.21367
	85 1,4-Dichlorobenzene	146	11.521	11.518	(1.003)	10209	0.20000	0.25085
	86 1,2-Dichlorobenzene	146	12.068	12.078	(1.051)	7193	0.20000	0.22284
	87 n-Butylbenzene	91	12.141	12.139	(1.057)	24432	0.20000	0.23172
	89 1,2,4-Trichlorobenzene	180	14.295	14.292	(1.245)	5661	0.20000	0.28936
	90 Hexachlorobutadiene	225	14.526	14.524	(1.265)	4335	0.20000	0.23627
	91 Napthalene	128	14.550	14.542	(1.267)	4606	0.20000	0.22450
	92 1,2,3-Trichlorobenzene	180	14.818	14.816	(1.290)	3736	0.20000	0.28989
M	93 *1,4-dichloro-2-butene(total)	53				507	0.20000	2.2861

QC Flag Legend

M - Compound response manually integrated.

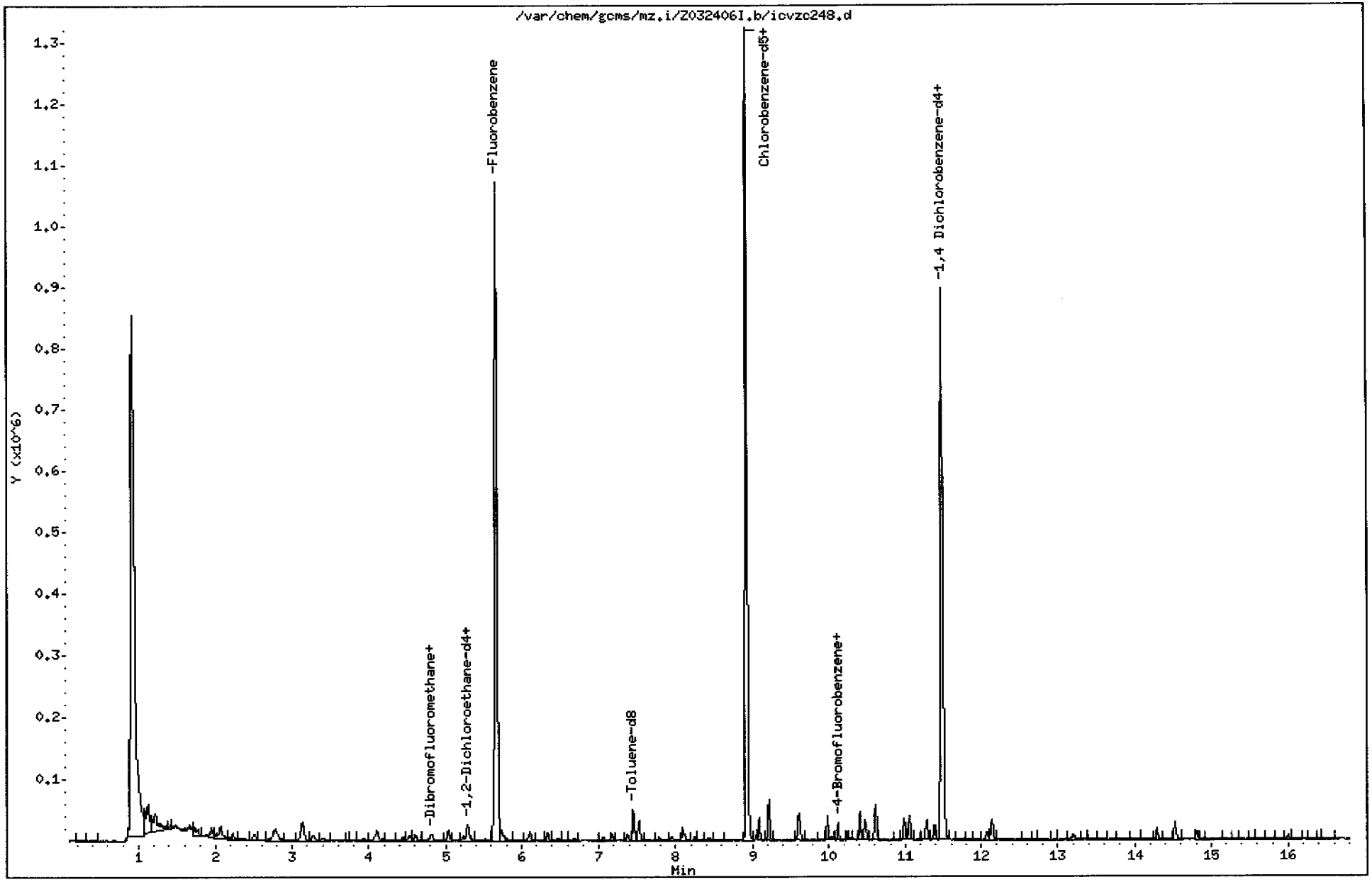
Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Date : 24-MAR-2006 13:51
Client ID: STD0.20
Sample Info: ICVZC248,1,1,8,,STD0.20

Instrument: mz.i

Operator: 22980

Column phase: J+W 624

Column diameter: 0.18



Data File Name: icvzc248.d

Inj. Date and Time: 24-MAR-2006 13:51

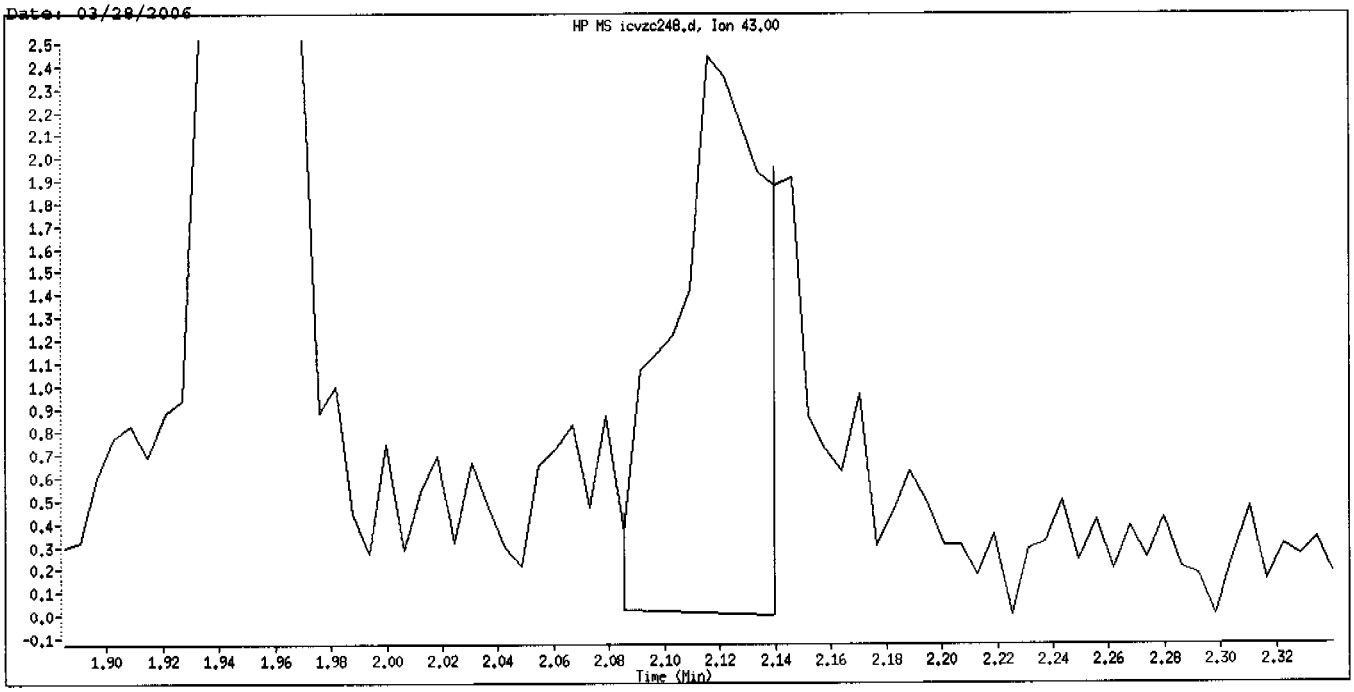
Instrument ID: mz.i

Client ID: STD0.20

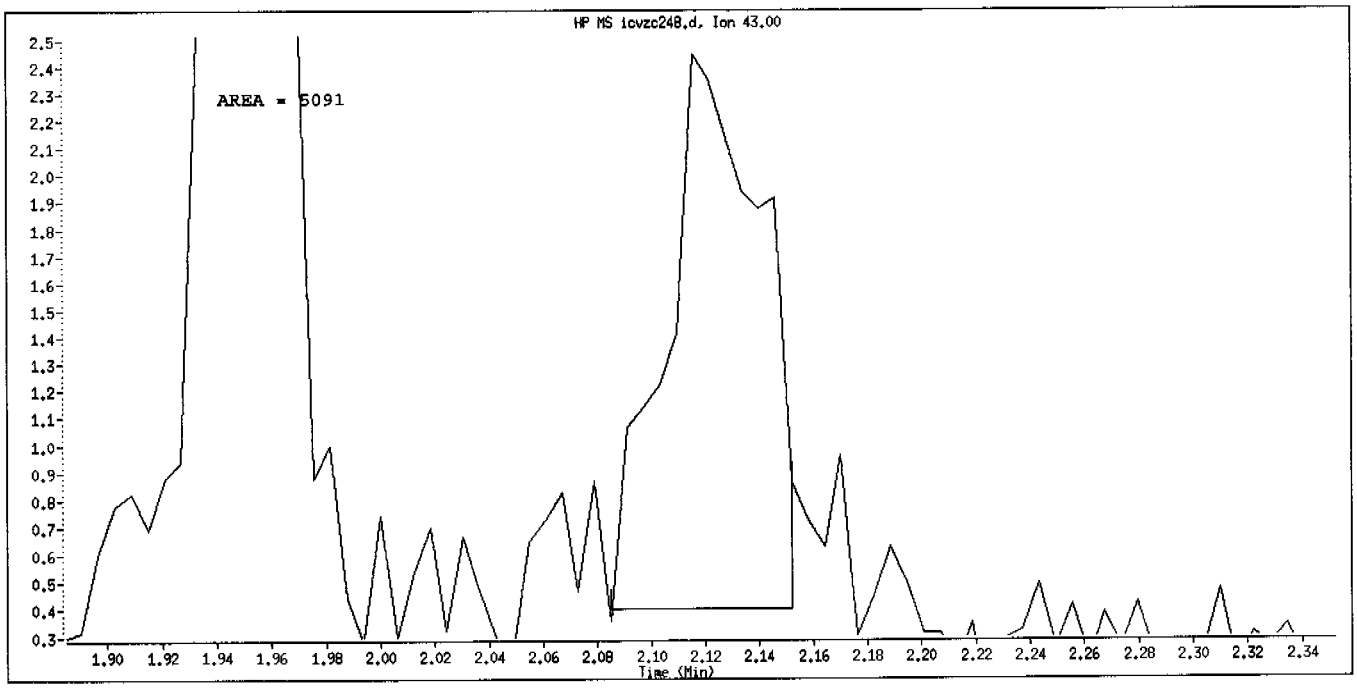
Compound Name: Acetone

CAS #: 67-64-1

Report Date: 03/28/2006



Original Integration



Manual Integration

Manually Integrated By: gosss

Manual Integration Reason: Splitting a peak

3/28/06

Data File Name: icvzc248.d

Inj. Date and Time: 24-MAR-2006 13:51

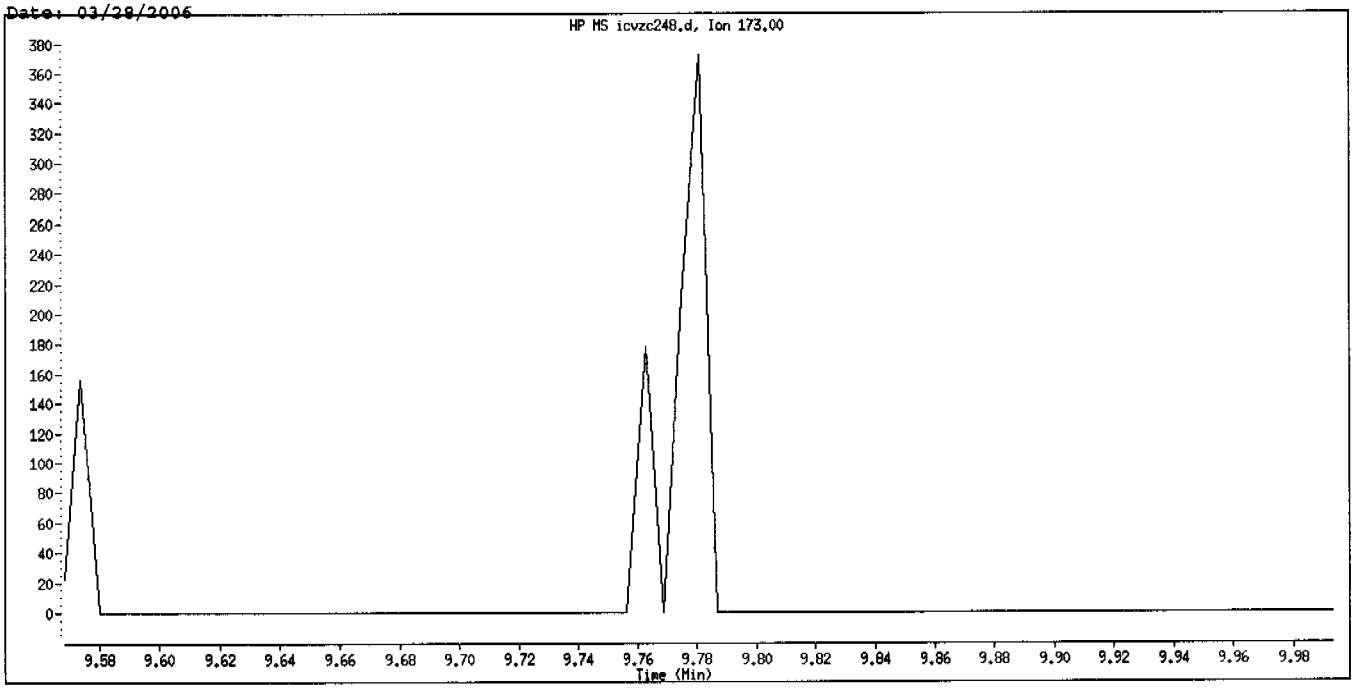
Instrument ID: mz.i

Client ID: STD0.20

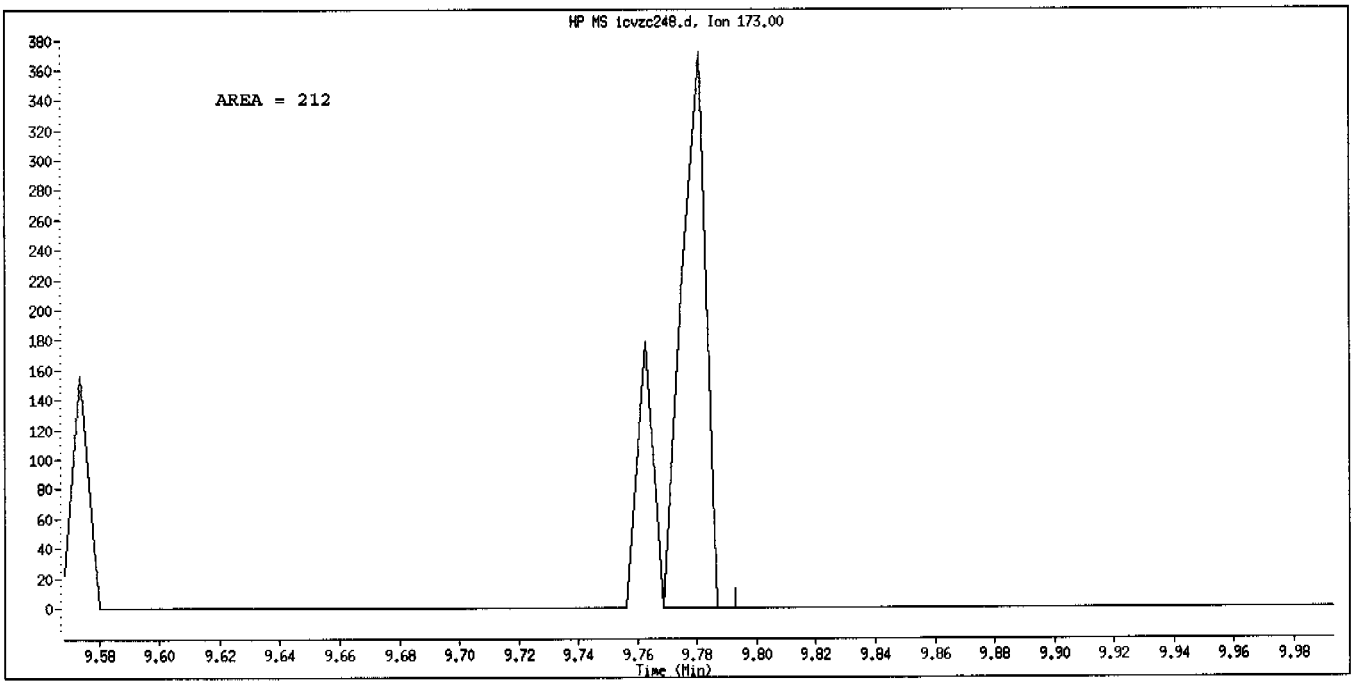
Compound Name: Bromoform (spcc)

CAS #: 75-25-2

Report Date: 03/28/2006



Original Integration



Manual Integration

Manually Integrated By: gosss

Manual Integration Reason: Analyte not Identified by the Data System

3/28/06

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Report Date: 28-Mar-2006 11:30

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Lab Smp Id: ICVZC247 Client Smp ID: STD0.32
Inj Date : 24-MAR-2006 14:14
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC247,1,1,7,,STD0.32
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 28-Mar-2006 11:30 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 14:14 Cal File: icvzc247.d
Als bottle: 5 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.666	5.666	(1.000)	965258	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.927	(1.000)	174630	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.482	11.488	(1.000)	209010	10.0000	
$ 4 Dibromofluoromethane	113	4.821	4.826	(0.851)	7280	0.32000	0.47068
$ 5 1,2-Dichloroethane-d4	65	5.228	5.228	(0.923)	6511	0.32000	0.48680
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	36345	0.32000	0.47368
$ 7 4-Bromofluorobenzene	95	10.119	10.119	(0.881)	10705	0.32000	0.50786
M 8 1,2-Dichloroethene (total)	96				15352	0.32000	0.60264
M 9 Xylene (total)	106				36639	0.32000	0.88103
10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	7312	0.32000	0.31033
11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	39346	0.32000	0.15200
12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	10698	0.32000	0.28139
13 *1,3-Butadiene	39	1.219	1.219	(0.215)	11280	0.32000	0.32902
15 Bromomethane	94	1.408	1.414	(0.248)	3430	0.32000	1.1674

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Report Date: 28-Mar-2006 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 Chloroethane	64	1.487	1.481	(0.262)	5969	0.32000	0.33157
17 *Vinyl Bromide	106	1.615	1.614	(0.285)	4327	0.32000	0.26905
18 Trichlorofluoromethane	101	1.669	1.669	(0.295)	8492	0.32000	0.28783
19 *2-Chloropropane	43	1.949	1.949	(0.344)	19719	0.32000	0.30881
20 1,1-Dichloroethene (ccc)	96	2.071	2.065	(0.365)	6310	0.32000	0.30078
21 *Freon 113	151	2.083	2.083	(0.368)	4387	0.32000	0.26861
22 Acetone	43	2.126	2.125	(0.375)	3369	1.28000	3.8289
23 *Iodomethane	142	2.174	2.180	(0.384)	4891	0.32000	0.71675
24 Carbon Disulfide	76	2.235	2.229	(0.394)	23882	0.32000	0.32250
26 *Acetonitrile	40	2.363	2.369	(0.417)	2058	0.32000	4.7858
27 Methylene Chloride	84	2.509	2.503	(0.443)	5508	0.32000	0.34119
29 *Acrylonitrile	53	2.758	2.758	(0.487)	18122	66.4000	5.0277
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	8061	0.32000	0.30438
31 *MTBE	73	2.825	2.819	(0.499)	6471	0.32000	0.27857
32 *Hexane	57	3.142	3.135	(0.554)	40562	0.64000	0.59780
33 1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	17364	0.32000	0.28366
34 *Vinyl Acetate	86	3.136	3.409	(0.553)	3843	0.64000	2.9862
35 2,2-Dichloropropane	77	4.091	4.096	(0.722)	7610	0.32000	0.24468
36 cis 1,2-Dichloroethene	96	4.115	4.115	(0.726)	7291	0.32000	0.29826
37 2-Butanone	43	4.182	4.169	(0.738)	5464	1.28000	1.4939
38 Bromochloromethane	128	4.456	4.449	(0.786)	1549	0.32000	0.23045
39 *THF	42	4.529	4.528	(0.799)	3005	1.28000	1.3121
40 Chloroform (ccc)	83	4.608	4.607	(0.813)	10099	0.32000	0.28957
41 1,1,1-Trichloroethane	97	4.815	4.814	(0.850)	8417	0.32000	0.27267
42 Carbon Tetrachloride	117	5.034	5.039	(0.888)	3974	0.32000	0.49367
43 1,1-Dichloropropene	75	5.034	5.039	(0.888)	9841	0.32000	0.29751
44 Benzene	78	5.289	5.295	(0.933)	31392	0.32000	0.32978
45 1,2-Dichloroethane	62	5.326	5.325	(0.940)	5406	0.32000	0.26819
46 Trichloroethene	130	6.104	6.110	(1.077)	7970	0.32000	0.29765
47 1,2-Dichloropropane (ccc)	63	6.348	6.341	(1.120)	7492	0.32000	0.28807
49 Dibromomethane	93	6.469	6.469	(1.142)	1446	0.32000	0.26699
50 Bromodichloromethane	83	6.682	6.688	(1.179)	3188	0.32000	0.91068
51 *2-Chloroethylvinylether	63	7.066	7.065	(1.247)	3529	0.64000	0.59786
52 cis-1,3-Dichloropropene	75	7.181	7.181	(1.267)	6077	0.32000	0.28776
53 4-Methyl-2-pentanone	43	7.376	7.375	(1.302)	9399	1.28000	1.1150
54 Toluene (ccc)	91	7.522	7.528	(0.842)	29904	0.32000	0.30090
55 trans-1,3-Dichloropropene	75	7.783	7.783	(0.871)	3165	0.32000	0.82454
56 *Ethyl Methacrylate	69	7.935	7.929	(0.888)	1499	0.32000	0.17656
57 1,1,2-Trichloroethane	97	7.966	7.959	(0.892)	2250	0.32000	0.27894
58 Tetrachloroethene	164	8.088	8.093	(0.905)	6857	0.32000	0.33264
59 1,3-Dichloropropane	76	8.118	8.118	(0.909)	4557	0.32000	0.32230
60 2-Hexanone	43	8.252	8.251	(0.924)	5778	1.28000	1.0692
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	1051	0.32000	0.88540
62 1,2-Dibromoethane	107	8.434	8.434	(0.944)	2004	0.32000	0.27743
63 Chlorobenzene (spcc)	112	8.957	8.957	(1.003)	15953	0.32000	0.28760
64 1,1,1,2-Tetrachloroethane	131	9.055	9.054	(1.014)	2102	0.32000	0.46843
65 Ethylbenzene (ccc)	106	9.091	9.091	(1.018)	10254	0.32000	0.28689

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Report Date: 28-Mar-2006 11:30

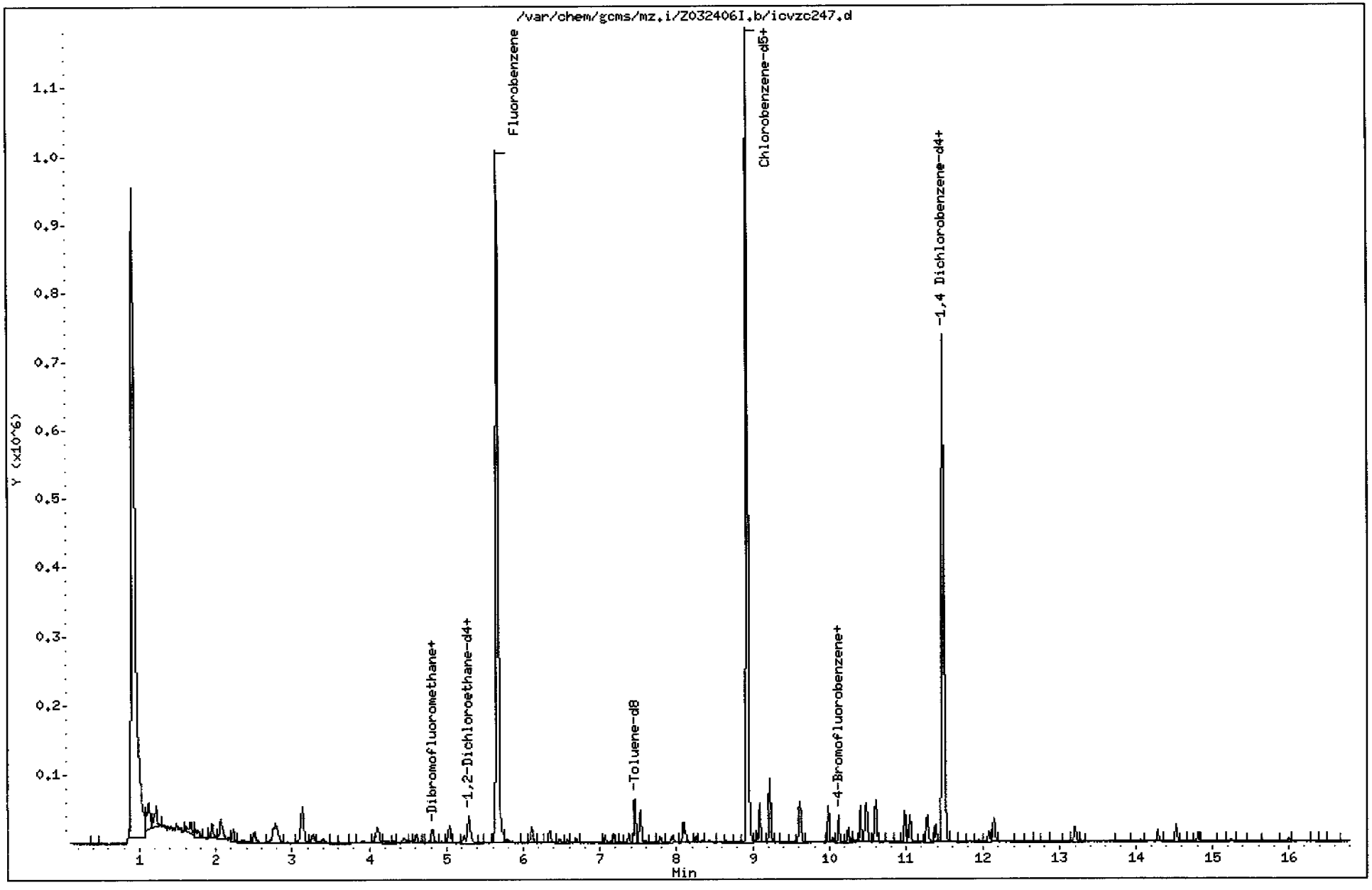
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	66 m&p-Xylene	106	9.219	9.219	(1.032)	25829	0.64000	0.59778
	67 o-Xylene	106	9.602	9.608	(1.075)	10810	0.32000	0.28325
	68 Styrene	104	9.621	9.620	(1.077)	16099	0.32000	0.30045
	69 Bromoform (spcc)	173	9.773	9.778	(1.094)	342	0.32000	1.4783(M)
	70 Isopropylbenzene	105	9.992	9.991	(1.118)	32657	0.32000	0.29759
	71 *cis-1,4-dichloro-2-butene	88	10.119	10.052	(1.133)	407	0.32000	1.8141
	72 Bromobenzene	156	10.253	10.253	(1.148)	4674	0.32000	0.28659
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.289	(1.152)	1677	0.32000	0.27870
	74 1,2,3-Trichloropropane	110	10.308	10.314	(0.898)	552	0.32000	0.30675
	75 *trans-1,4-dichloro-2-butene	53	10.338	10.350	(0.900)	644	0.32000	0.71335
	76 n-Propylbenzene	91	10.405	10.405	(0.906)	36069	0.32000	0.28511
	77 2-Chlorotoluene	91	10.472	10.472	(0.912)	20110	0.32000	0.29973
	78 1,3,5-Trimethylbenzene	105	10.612	10.612	(0.924)	24965	0.32000	0.29328
	79 4-Chlorotoluene	91	10.594	10.594	(0.923)	20641	0.32000	0.28960
	80 tert-Butylbenzene	119	10.989	10.989	(0.957)	20923	0.32000	0.27452
	81 1,2,4-Trimethylbenzene	105	11.056	11.050	(0.963)	23128	0.32000	0.28918
	82 sec-Butylbenzene	105	11.275	11.281	(0.982)	30627	0.32000	0.27261
	83 1,3-Dichlorobenzene	146	11.391	11.384	(0.992)	11115	0.32000	0.30380
	84 p-Isopropyltoluene	119	11.500	11.500	(1.002)	28702	0.32000	0.29116
	85 1,4-Dichlorobenzene	146	11.519	11.518	(1.003)	10377	0.32000	0.30492
	86 1,2-Dichlorobenzene	146	12.072	12.078	(1.051)	7930	0.32000	0.29379
	87 n-Butylbenzene	91	12.139	12.139	(1.057)	26329	0.32000	0.29862
	89 1,2,4-Trichlorobenzene	180	14.293	14.292	(1.245)	5022	0.32000	0.30698
	90 Hexachlorobutadiene	225	14.524	14.524	(1.265)	4332	0.32000	0.28236
	91 Napthalene	128	14.548	14.542	(1.267)	5013	0.32000	0.29220
	92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	3260	0.32000	0.30250
M	93 *1,4-dichloro-2-butene(total)	53				1051	0.32000	2.5274

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Date : 24-MAR-2006 14:14
Client ID: STD0.32
Sample Info: ICVZC247,1,1,7,,STD0.32
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



Data File Name: icvzc247.d

Inj. Date and Time: 24-MAR-2006 14:14

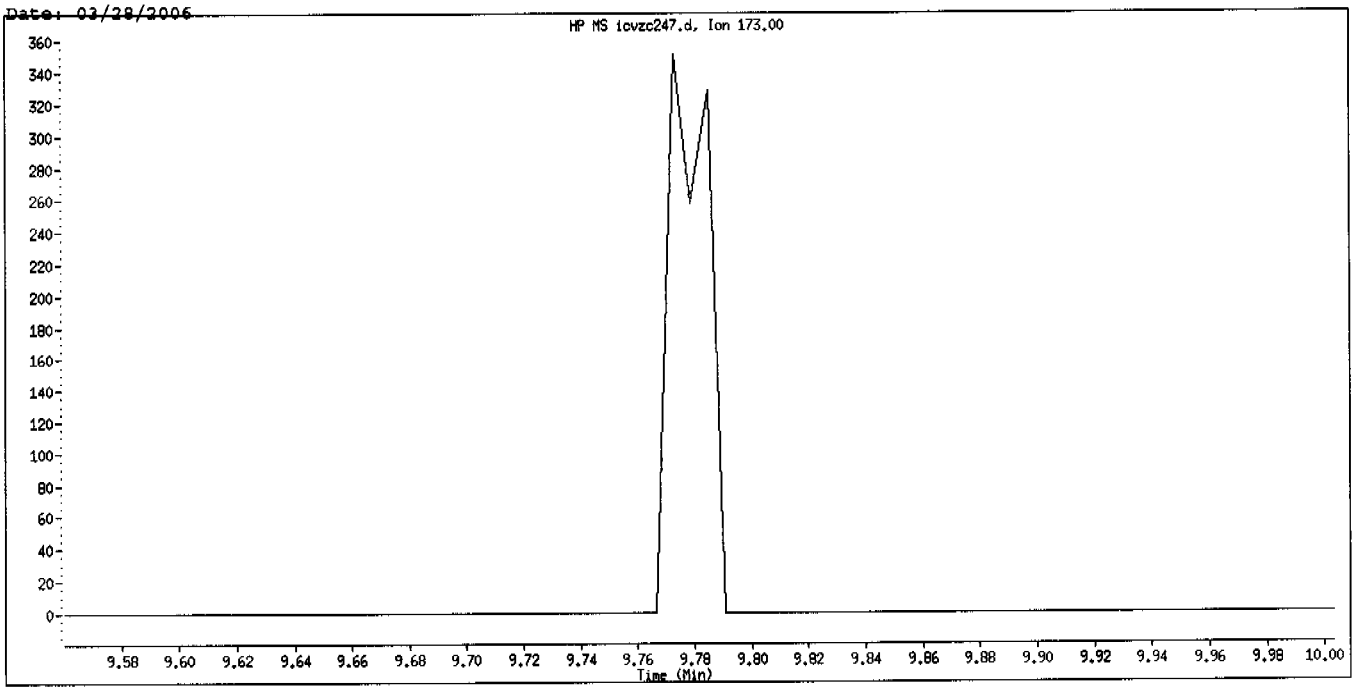
Instrument ID: mz.i

Client ID: STD0.32

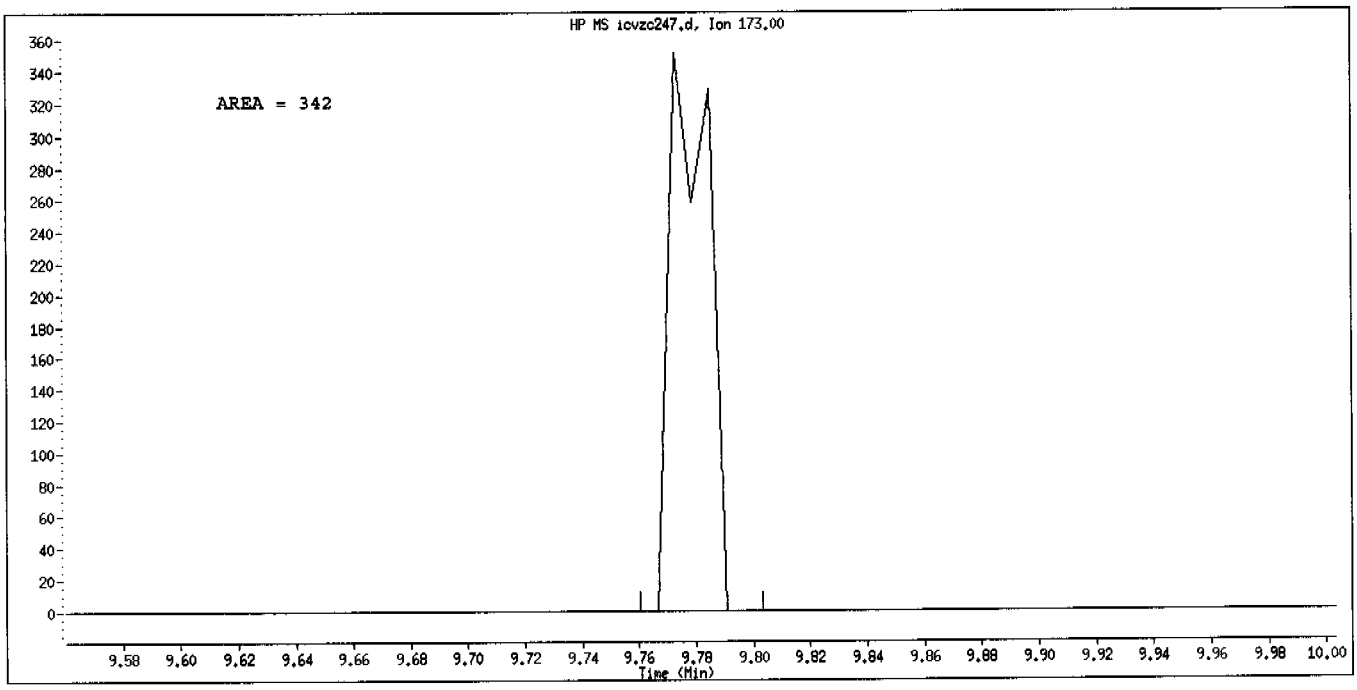
Compound Name: Bromoform (spcc)

CAS #: 75-25-2

Report ~~Date: 03/28/2006~~



Original Integration



Manual Integration

kr 3/28/06

Manually Integrated By: gosss

Manual Integration Reason: Unknown

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Lab Smp Id: ICVZC241 Client Smp ID: STD01
Inj Date : 24-MAR-2006 14:38
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC241,1,1,1,,STD01
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 14:38 Cal File: icvzc241.d
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.669	5.666	(1.000)	1123931	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.927	(1.000)	203397	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.485	11.488	(1.000)	248522	10.0000	
$ 4 Dibromofluoromethane	113	4.823	4.826	(0.851)	17429	1.00000	0.96779
$ 5 1,2-Dichloroethane-d4	65	5.231	5.228	(0.923)	15737	1.00000	1.0105
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	88488	1.00000	0.99014
$ 7 4-Bromofluorobenzene	95	10.122	10.119	(0.881)	26441	1.00000	1.0550
M 8 1,2-Dichloroethene (total)	96				60061	2.00000	2.0248
M 9 Xylene (total)	106				147706	3.00000	3.0140
10 Dichlorodifluoromethane	85	1.015	1.012	(0.179)	25499	1.00000	0.93790
11 Chloromethane (spcc)	50	1.124	1.128	(0.198)	106980	1.00000	1.2994
12 Vinyl Chloride (ccc)	62	1.191	1.195	(0.210)	45420	1.00000	1.0234
13 *1,3-Butadiene	39	1.222	1.219	(0.216)	42141	1.00000	1.0355
15 Bromomethane	94	1.410	1.414	(0.249)	5472	1.00000	0.65680
16 Chloroethane	64	1.483	1.481	(0.262)	21453	1.00000	1.0115

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Report Date: 24-Mar-2006 17:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.617	1.614	(0.285)	18727	1.00000	1.0226
18 Trichlorofluoromethane	101	1.666	1.669	(0.294)	33698	1.00000	0.98677
19 *2-Chloropropane	43	1.952	1.949	(0.344)	70896	1.00000	0.94396
20 1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.365)	24777	1.00000	1.0066
21 *Freon 113	151	2.086	2.083	(0.368)	18936	1.00000	0.97971
22 Acetone	43	2.128	2.125	(0.375)	10079	4.00000	4.6035
23 *Iodomethane	142	2.183	2.180	(0.385)	18279	1.00000	0.79929
24 Carbon Disulfide	76	2.232	2.229	(0.394)	85083	1.00000	0.98182
26 *Acetonitrile	40	2.365	2.369	(0.417)	8616	20.0000	17.287
27 Methylene Chloride	84	2.505	2.503	(0.442)	18426	1.00000	0.97664
28 *t-butanol	59	2.700	2.697	(0.476)	12778	50.0000	37.709
29 *Acrylonitrile	53	2.755	2.758	(0.486)	84286	20.0000	19.981
30 trans-1,2-Dichloroethene	96	2.791	2.795	(0.492)	31410	1.00000	1.0180
31 *MTBE	73	2.822	2.819	(0.498)	26085	1.00000	0.97217
32 *Hexane	57	3.132	3.135	(0.552)	150847	2.00000	1.8951
33 1,1-Dichloroethane (spcc)	63	3.278	3.275	(0.578)	72584	1.00000	1.0219
34 *Vinyl Acetate	86	3.412	3.409	(0.602)	1846	2.00000	1.3682
35 2,2-Dichloropropane	77	4.105	4.096	(0.724)	33462	1.00000	0.93981
36 cis 1,2-Dichloroethene	96	4.117	4.115	(0.726)	28651	1.00000	1.0068
37 2-Butanone	43	4.178	4.169	(0.737)	17502	4.00000	4.1166
38 Bromochloromethane	128	4.452	4.449	(0.785)	8875	1.00000	1.1337
39 *THF	42	4.519	4.528	(0.797)	11056	4.00000	4.1474
40 Chloroform (ccc)	83	4.616	4.607	(0.814)	38775	1.00000	0.96245
41 1,1,1-Trichloroethane	97	4.811	4.814	(0.849)	31447	1.00000	0.89511
42 Carbon Tetrachloride	117	5.030	5.039	(0.887)	14271	1.00000	0.68582
43 1,1-Dichloropropene	75	5.042	5.039	(0.889)	38506	1.00000	0.99985
44 Benzene	78	5.292	5.295	(0.933)	112507	1.00000	1.0113
45 1,2-Dichloroethane	62	5.328	5.325	(0.940)	23484	1.00000	1.0044
46 Trichloroethene	130	6.113	6.110	(1.078)	29935	1.00000	0.95762
47 1,2-Dichloropropane (ccc)	63	6.344	6.341	(1.119)	30093	1.00000	0.99215
48 *Methyl Methacrylate	41	6.569	6.572	(1.159)	8063	1.00000	0.82691
49 Dibromomethane	93	6.466	6.469	(1.141)	6225	1.00000	0.99082
50 Bromodichloromethane	83	6.691	6.688	(1.180)	13084	1.00000	0.80016
51 *2-Chloroethylvinylether	63	7.062	7.065	(1.246)	13319	2.00000	1.9312
52 cis-1,3-Dichloropropene	75	7.184	7.181	(1.267)	22888	1.00000	0.94110
53 4-Methyl-2-pentanone	43	7.378	7.375	(1.302)	38268	4.00000	3.8820
54 Toluene (ccc)	91	7.524	7.528	(0.843)	115159	1.00000	0.99474
55 trans-1,3-Dichloropropene	75	7.780	7.783	(0.871)	13777	1.00000	0.90818
56 *Ethyl Methacrylate	69	7.926	7.929	(0.888)	7559	1.00000	0.78092
57 1,1,2-Trichloroethane	97	7.962	7.959	(0.892)	9610	1.00000	1.0261
58 Tetrachloroethene	164	8.096	8.093	(0.907)	24333	1.00000	1.0044
59 1,3-Dichloropropane	76	8.120	8.118	(0.909)	16015	1.00000	0.97274
60 2-Hexanone	43	8.254	8.251	(0.924)	23037	4.00000	3.6717
61 Chlorodibromomethane	129	8.345	8.349	(0.935)	4945	1.00000	0.64215
62 1,2-Dibromoethane	107	8.437	8.434	(0.945)	8227	1.00000	0.98276
63 Chlorobenzene (spcc)	112	8.960	8.957	(1.003)	65128	1.00000	1.0064
64 1,1,1,2-Tetrachloroethane	131	9.051	9.054	(1.014)	7918	1.00000	0.66612

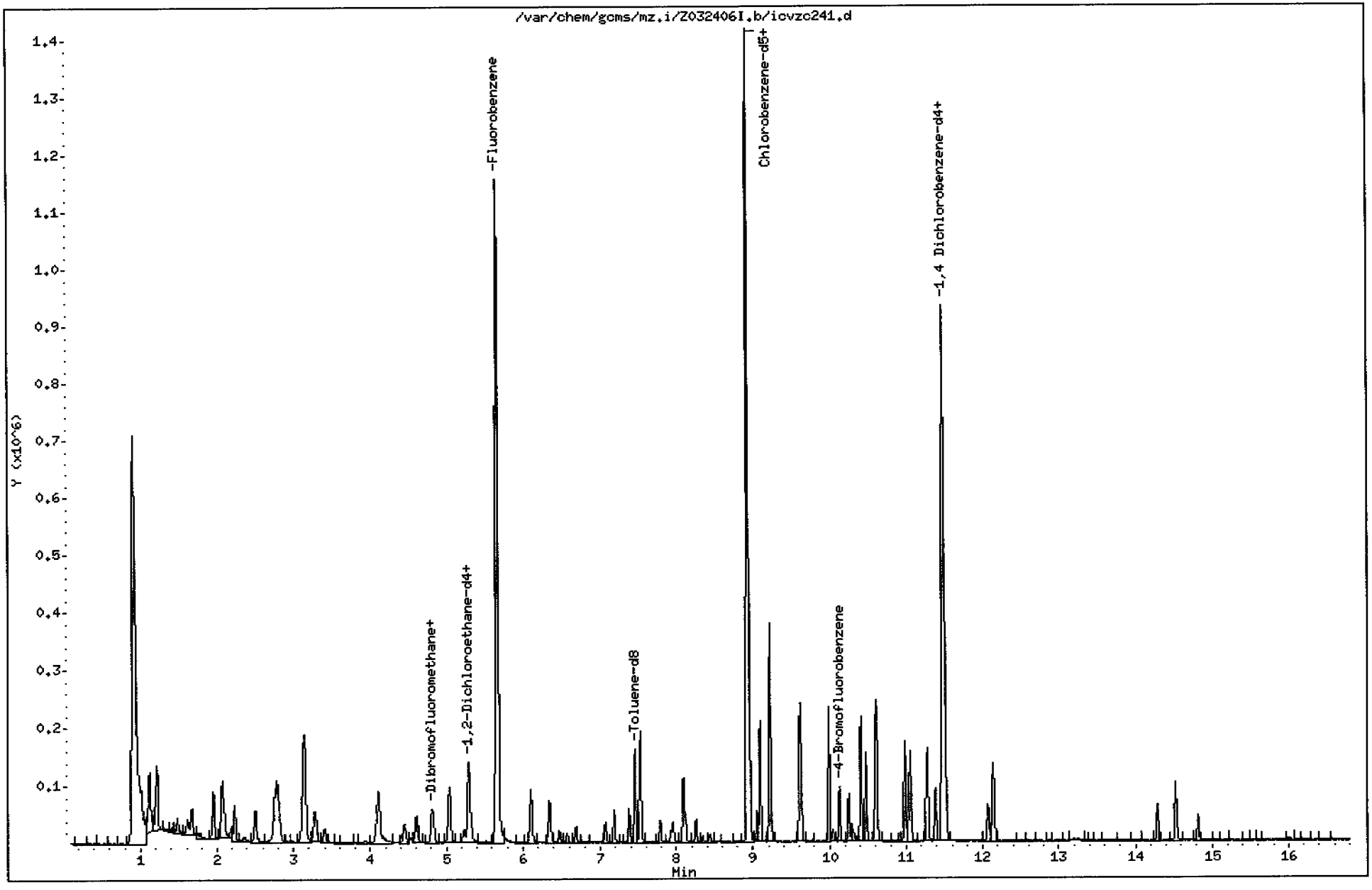
Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
65	Ethylbenzene (ccc)	106	9.094	9.091	(1.018)	42436	1.00000	1.0162
66	m&p-Xylene	106	9.221	9.219	(1.033)	102791	2.00000	2.0068
67	o-Xylene	106	9.611	9.608	(1.076)	44914	1.00000	1.0071
68	Styrene	104	9.623	9.620	(1.078)	63605	1.00000	1.0149
69	Bromoform (spcc)	173	9.775	9.778	(1.095)	902	1.00000	0.35523
70	Isopropylbenzene	105	9.988	9.991	(1.119)	128293	1.00000	0.99981
71	*cis-1,4-dichloro-2-butene	88	10.055	10.052	(1.126)	738	1.00000	0.59045
72	Bromobenzene	156	10.256	10.253	(1.149)	18785	1.00000	0.98930
73	1,1,2,2-Tetrachloroethane(sp)	83	10.292	10.289	(1.153)	6971	1.00000	1.0059
74	1,2,3-Trichloropropane	110	10.310	10.314	(0.898)	2303	1.00000	1.0776
75	*trans-1,4-dichloro-2-butene	53	10.341	10.350	(0.900)	2278	1.00000	0.83610
76	n-Propylbenzene	91	10.408	10.405	(0.906)	148242	1.00000	0.98400
77	2-Chlorotoluene	91	10.475	10.472	(0.912)	78081	1.00000	0.98039
78	1,3,5-Trimethylbenzene	105	10.615	10.612	(0.924)	100401	1.00000	0.98668
79	4-Chlorotoluene	91	10.596	10.594	(0.923)	81359	1.00000	0.95637
80	tert-Butylbenzene	119	10.992	10.989	(0.957)	90632	1.00000	1.0025
81	1,2,4-Trimethylbenzene	105	11.053	11.050	(0.962)	92297	1.00000	0.97282
82	sec-Butylbenzene	105	11.278	11.281	(0.982)	131809	1.00000	0.99189
83	1,3-Dichlorobenzene	146	11.387	11.384	(0.992)	42599	1.00000	0.98107
84	p-Isopropyltoluene	119	11.503	11.500	(1.002)	119215	1.00000	1.0129
85	1,4-Dichlorobenzene	146	11.515	11.518	(1.003)	43055	1.00000	1.0534
86	1,2-Dichlorobenzene	146	12.075	12.078	(1.051)	30579	1.00000	0.95627
87	n-Butylbenzene	91	12.142	12.139	(1.057)	101029	1.00000	0.97041
88	1,2-Dibromo-3-chloropropane	157	13.255	13.258	(1.154)	575	1.00000	0.63377
89	1,2,4-Trichlorobenzene	180	14.295	14.292	(1.245)	18479	1.00000	0.94834
90	Hexachlorobutadiene	225	14.526	14.524	(1.265)	16825	1.00000	0.91446
91	Napthalene	128	14.544	14.542	(1.266)	19246	1.00000	0.95225
92	1,2,3-Trichlorobenzene	180	14.818	14.816	(1.290)	11120	1.00000	0.87211
M 93	*1,4-dichloro-2-butene(total)	53				3017	2.00000	1.4266

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Date : 24-MAR-2006 14:38
Client ID: STD01
Sample Info: ICVZC241,1,1,1,,STD01
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Lab Smp Id: ICVZC242 Client Smp ID: STD02
Inj Date : 24-MAR-2006 15:01
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC242,1,1,2,,STD02
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 15:01 Cal File: icvzc242.d
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.667	5.666	(1.000)	1042279	10.0000	
* 2 Chlorobenzene-d5	119	8.928	8.927	(1.000)	191654	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.483	11.488	(1.000)	232924	10.0000	
$ 4 Dibromofluoromethane	113	4.822	4.826	(0.851)	30198	2.00000	1.8082
$ 5 1,2-Dichloroethane-d4	65	5.235	5.228	(0.924)	27016	2.00000	1.8706
$ 6 Toluene-d8	98	7.456	7.455	(0.835)	158677	2.00000	1.8843
$ 7 4-Bromofluorobenzene	95	10.120	10.119	(0.881)	44588	2.00000	1.8982
M 8 1,2-Dichloroethene (total)	96				114162	4.00000	4.1456
M 9 Xylene (total)	106				288842	6.00000	6.2524
10 Dichlorodifluoromethane	85	1.013	1.012	(0.179)	45631	2.00000	1.8099
11 Chloromethane (spcc)	50	1.123	1.128	(0.198)	175396	2.00000	2.2972
12 Vinyl Chloride (ccc)	62	1.196	1.195	(0.211)	83542	2.00000	2.0298
13 *1,3-Butadiene	39	1.220	1.219	(0.215)	79900	2.00000	2.1172
15 Bromomethane	94	1.397	1.414	(0.246)	10576	2.00000	1.3688
16 Chloroethane	64	1.482	1.481	(0.261)	40877	2.00000	2.0783

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Report Date: 24-Mar-2006 17:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.610	1.614	(0.284)	32629	2.00000	1.9214
18 Trichlorofluoromethane	101	1.670	1.669	(0.295)	63188	2.00000	1.9952
19 *2-Chloropropane	43	1.950	1.949	(0.344)	143068	2.00000	2.0541
20 1,1-Dichloroethene (ccc)	96	2.066	2.065	(0.365)	45086	2.00000	1.9752
21 *Freon 113	151	2.078	2.083	(0.367)	36456	2.00000	2.0338
22 Acetone	43	2.121	2.125	(0.374)	16702	8.00000	8.2259
23 *Iodomethane	142	2.181	2.180	(0.385)	36660	2.00000	1.7286
24 Carbon Disulfide	76	2.230	2.229	(0.394)	167705	2.00000	2.0868
26 *Acetonitrile	40	2.364	2.369	(0.417)	17578	40.0000	38.032
27 Methylene Chloride	84	2.510	2.503	(0.443)	35442	2.00000	2.0257
28 *t-butanol	59	2.699	2.697	(0.476)	25226	100.000	80.276
29 *Acrylonitrile	53	2.759	2.758	(0.487)	158917	40.0000	40.625
30 trans-1,2-Dichloroethene	96	2.790	2.795	(0.492)	61229	2.00000	2.1398
31 *MTBE	73	2.826	2.819	(0.499)	50021	2.00000	2.0103
32 *Hexane	57	3.137	3.135	(0.553)	302884	4.00000	4.1032
33 1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	136434	2.00000	2.0713
34 *Vinyl Acetate	86	3.398	3.409	(0.600)	4364	4.00000	3.4874
35 2,2-Dichloropropane	77	4.092	4.096	(0.722)	63942	2.00000	1.9366
36 cis 1,2-Dichloroethene	96	4.110	4.115	(0.725)	52933	2.00000	2.0059
37 2-Butanone	43	4.171	4.169	(0.736)	29763	8.00000	7.5488
38 Bromochloromethane	128	4.445	4.449	(0.784)	14500	2.00000	1.9972
39 *THF	42	4.536	4.528	(0.800)	19029	8.00000	7.6972
40 Chloroform (ccc)	83	4.615	4.607	(0.814)	77199	2.00000	2.0663
41 1,1,1-Trichloroethane	97	4.816	4.814	(0.850)	61867	2.00000	1.8989
42 Carbon Tetrachloride	117	5.035	5.039	(0.888)	29577	2.00000	1.5327
43 1,1-Dichloropropene	75	5.041	5.039	(0.889)	72633	2.00000	2.0338
44 Benzene	78	5.290	5.295	(0.933)	211893	2.00000	2.0539
45 1,2-Dichloroethane	62	5.327	5.325	(0.940)	45896	2.00000	2.1167
46 Trichloroethene	130	6.105	6.110	(1.077)	60600	2.00000	2.0904
47 1,2-Dichloropropane (ccc)	63	6.343	6.341	(1.119)	58691	2.00000	2.0866
48 *Methyl Methacrylate	41	6.574	6.572	(1.160)	16333	2.00000	1.8063
49 Dibromomethane	93	6.470	6.469	(1.142)	11936	2.00000	2.0487
50 Bromodichloromethane	83	6.689	6.688	(1.180)	28405	2.00000	1.8731
51 *2-Chloroethylvinylether	63	7.066	7.065	(1.247)	26217	4.00000	4.0990
52 cis-1,3-Dichloropropene	75	7.182	7.181	(1.267)	43032	2.00000	1.9080
53 4-Methyl-2-pentanone	43	7.377	7.375	(1.302)	73254	8.00000	8.0133
54 Toluene (ccc)	91	7.523	7.528	(0.843)	224013	2.00000	2.0536
55 trans-1,3-Dichloropropene	75	7.784	7.783	(0.872)	25501	2.00000	1.7840
56 *Ethyl Methacrylate	69	7.930	7.929	(0.888)	16245	2.00000	1.7809
57 1,1,2-Trichloroethane	97	7.955	7.959	(0.891)	17186	2.00000	1.9473
58 Tetrachloroethene	164	8.095	8.093	(0.907)	46062	2.00000	2.0178
59 1,3-Dichloropropane	76	8.119	8.118	(0.909)	31131	2.00000	2.0067
60 2-Hexanone	43	8.253	8.251	(0.924)	45569	8.00000	7.7079
61 Chlorodibromomethane	129	8.344	8.349	(0.935)	10189	2.00000	1.4040
62 1,2-Dibromoethane	107	8.435	8.434	(0.945)	16508	2.00000	2.0928
63 Chlorobenzene (spcc)	112	8.958	8.957	(1.003)	126301	2.00000	2.0712
64 1,1,1,2-Tetrachloroethane	131	9.050	9.054	(1.014)	17364	2.00000	1.5502

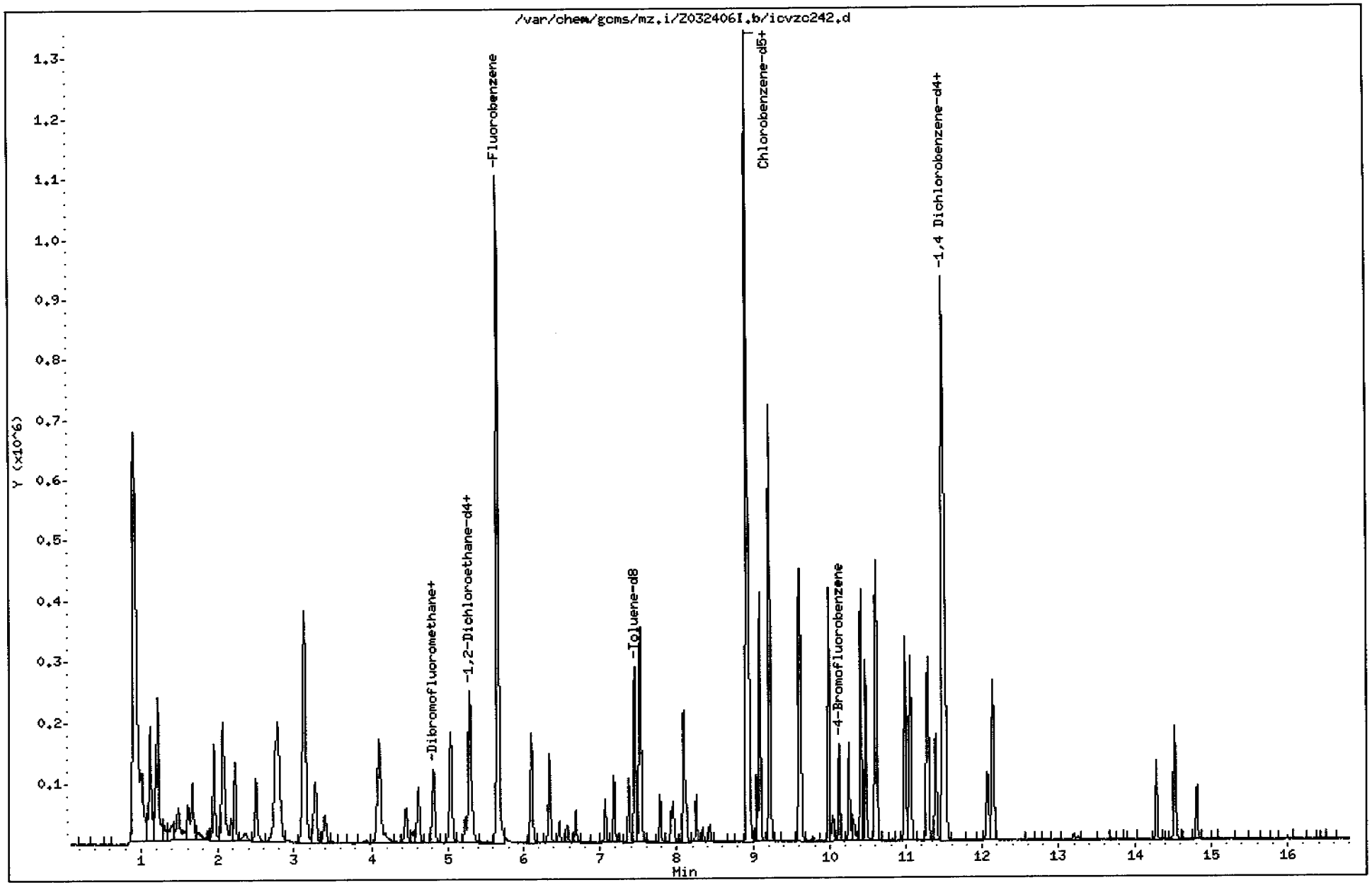
Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	65 Ethylbenzene (ccc)	106	9.092	9.091	(1.018)	81220	2.00000	2.0640
	66 m&p-Xylene	106	9.220	9.219	(1.033)	201864	4.00000	4.1826
	67 o-Xylene	106	9.609	9.608	(1.076)	86977	2.00000	2.0698
	68 Styrene	104	9.622	9.620	(1.078)	122418	2.00000	2.0729
	69 Bromoform (spcc)	173	9.780	9.778	(1.095)	3151	2.00000	1.3166
	70 Isopropylbenzene	105	9.987	9.991	(1.119)	242948	2.00000	2.0093
	71 *cis-1,4-dichloro-2-butene	88	10.053	10.052	(1.126)	1185	2.00000	1.0057
	72 Bromobenzene	156	10.254	10.253	(1.149)	37563	2.00000	2.0994
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.291	10.289	(1.153)	11797	2.00000	1.8064
	74 1,2,3-Trichloropropane	110	10.315	10.314	(0.898)	4083	2.00000	2.0385
	75 *trans-1,4-dichloro-2-butene	53	10.345	10.350	(0.901)	3994	2.00000	1.5640
	76 n-Propylbenzene	91	10.406	10.405	(0.906)	284918	2.00000	2.0179
	77 2-Chlorotoluene	91	10.473	10.472	(0.912)	153066	2.00000	2.0506
	78 1,3,5-Trimethylbenzene	105	10.613	10.612	(0.924)	192126	2.00000	2.0145
	79 4-Chlorotoluene	91	10.595	10.594	(0.923)	162121	2.00000	2.0333
	80 tert-Butylbenzene	119	10.990	10.989	(0.957)	171218	2.00000	2.0207
	81 1,2,4-Trimethylbenzene	105	11.051	11.050	(0.962)	181710	2.00000	2.0435
	82 sec-Butylbenzene	105	11.276	11.281	(0.982)	254436	2.00000	2.0429
	83 1,3-Dichlorobenzene	146	11.386	11.384	(0.992)	81202	2.00000	1.9954
	84 p-Isopropyltoluene	119	11.501	11.500	(1.002)	219108	2.00000	1.9863
	85 1,4-Dichlorobenzene	146	11.514	11.518	(1.003)	78049	2.00000	2.0375
	86 1,2-Dichlorobenzene	146	12.079	12.078	(1.052)	58473	2.00000	1.9510
	87 n-Butylbenzene	91	12.140	12.139	(1.057)	193408	2.00000	1.9821
	88 1,2-Dibromo-3-chloropropane	157	13.253	13.258	(1.154)	1118	2.00000	1.3150
	89 1,2,4-Trichlorobenzene	180	14.294	14.292	(1.245)	36423	2.00000	1.9943
	90 Hexachlorobutadiene	225	14.525	14.524	(1.265)	34860	2.00000	2.0216
	91 Napthalene	128	14.543	14.542	(1.266)	36283	2.00000	1.9154
	92 1,2,3-Trichlorobenzene	180	14.817	14.816	(1.290)	24284	2.00000	2.0321
M	93 *1,4-dichloro-2-butene(total)	53				5179	4.00000	2.5697

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Date : 24-MAR-2006 15:01
Client ID: STD02
Sample Info: ICVZC242,1,1,2,,STD02
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Lab Smp Id: ICVZC243 Client Smp ID: STD10
Inj Date : 24-MAR-2006 15:24
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC243,1,1,3,,STD10
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 15:24 Cal File: icvzc243.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.666	5.666	(1.000)	1140841	10.0000	
* 2 Chlorobenzene-d5	119	8.927	8.927	(1.000)	197405	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	234469	10.0000	
$ 4 Dibromofluoromethane	113	4.826	4.826	(0.852)	184955	10.0000	10.118
$ 5 1,2-Dichloroethane-d4	65	5.228	5.228	(0.923)	158691	10.0000	10.039
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	885681	10.0000	10.211
$ 7 4-Bromofluorobenzene	95	10.119	10.119	(0.881)	231398	10.0000	9.7858
M 8 1,2-Dichloroethene (total)	96				594665	20.0000	19.776
M 9 Xylene (total)	106				1451944	30.0000	30.538
10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	285113	10.0000	10.331
11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	767002	10.0000	9.1778
12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	453855	10.0000	10.074
13 *1,3-Butadiene	39	1.219	1.219	(0.215)	400598	10.0000	9.6982
15 Bromomethane	94	1.414	1.414	(0.249)	91856	10.0000	10.535
16 Chloroethane	64	1.481	1.481	(0.261)	205980	10.0000	9.5679

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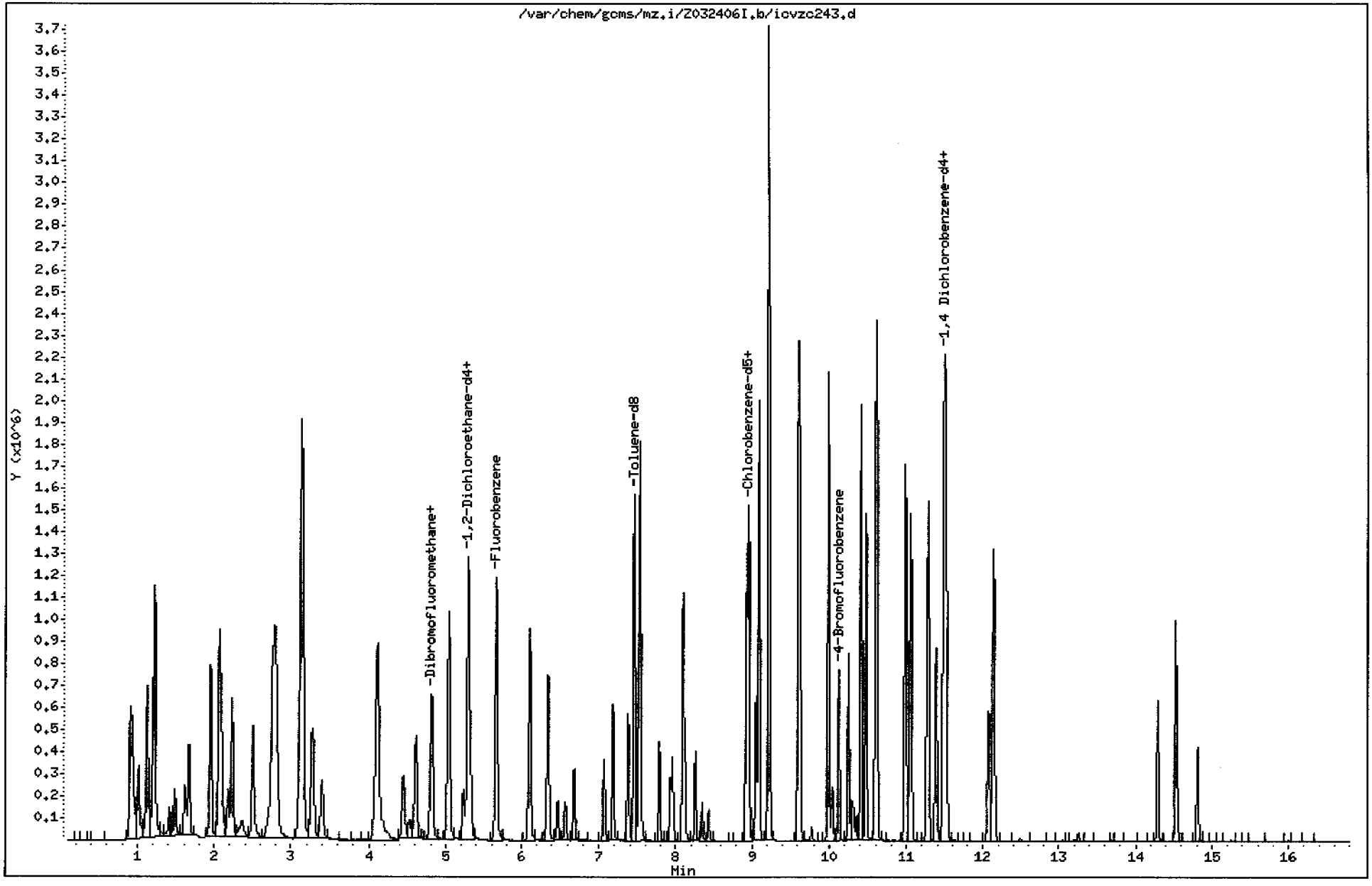
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.614	1.614	(0.285)	188883	10.0000	10.161
18 Trichlorofluoromethane	101	1.669	1.669	(0.295)	339509	10.0000	9.7942
19 *2-Chloropropane	43	1.949	1.949	(0.344)	752430	10.0000	9.8699
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	248862	10.0000	9.9606
21 *Freon 113	151	2.083	2.083	(0.368)	196569	10.0000	10.019
22 Acetone	43	2.125	2.125	(0.375)	96858	40.0000	43.581
23 *Iodomethane	142	2.180	2.180	(0.385)	248702	10.0000	10.714
24 Carbon Disulfide	76	2.229	2.229	(0.393)	862486	10.0000	9.8052
26 *Acetonitrile	40	2.369	2.369	(0.418)	108319	200.000	214.10
27 Methylene Chloride	84	2.503	2.503	(0.442)	201661	10.0000	10.530
28 *t-butanol	59	2.697	2.697	(0.476)	159989	500.000	465.13
29 *Acrylonitrile	53	2.758	2.758	(0.487)	838642	200.000	195.86
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	301342	10.0000	9.6212
31 *MTBE	73	2.819	2.819	(0.498)	279751	10.0000	10.271
32 *Hexane	57	3.135	3.135	(0.553)	1597780	20.0000	19.776
33 1,1-Dichloroethane (spcc)	63	3.275	3.275	(0.578)	722506	10.0000	10.021
34 *Vinyl Acetate	86	3.409	3.409	(0.602)	30105	20.0000	21.977
35 2,2-Dichloropropane	77	4.096	4.096	(0.723)	372783	10.0000	10.315
36 cis 1,2-Dichloroethene	96	4.115	4.115	(0.726)	293323	10.0000	10.155
37 2-Butanone	43	4.169	4.169	(0.736)	165016	40.0000	38.237
38 Bromochloromethane	128	4.449	4.449	(0.785)	85086	10.0000	10.707
39 *THF	42	4.528	4.528	(0.799)	105470	40.0000	38.976
40 Chloroform (ccc)	83	4.607	4.607	(0.813)	410095	10.0000	10.028
41 1,1,1-Trichloroethane	97	4.814	4.814	(0.850)	365986	10.0000	10.263
42 Carbon Tetrachloride	117	5.039	5.039	(0.889)	222376	10.0000	10.528
43 1,1-Dichloropropene	75	5.039	5.039	(0.889)	391392	10.0000	10.012
44 Benzene	78	5.295	5.295	(0.934)	1091471	10.0000	9.6658
45 1,2-Dichloroethane	62	5.325	5.325	(0.940)	241132	10.0000	10.160
46 Trichloroethene	130	6.110	6.110	(1.078)	318914	10.0000	10.051
47 1,2-Dichloropropane (ccc)	63	6.341	6.341	(1.119)	309816	10.0000	10.063
48 *Methyl Methacrylate	41	6.572	6.572	(1.160)	102519	10.0000	10.358
49 Dibromomethane	93	6.469	6.469	(1.142)	67205	10.0000	10.538
50 Bromodichloromethane	83	6.688	6.688	(1.180)	180001	10.0000	10.844
51 *2-Chloroethylvinylether	63	7.065	7.065	(1.247)	137033	20.0000	19.574
52 cis-1,3-Dichloropropene	75	7.181	7.181	(1.267)	247874	10.0000	10.041
53 4-Methyl-2-pentanone	43	7.375	7.375	(1.302)	390670	40.0000	39.043
54 Toluene (ccc)	91	7.528	7.528	(0.843)	1138336	10.0000	10.131
55 trans-1,3-Dichloropropene	75	7.783	7.783	(0.872)	160005	10.0000	10.867
56 *Ethyl Methacrylate	69	7.929	7.929	(0.888)	101267	10.0000	10.778
57 1,1,2-Trichloroethane	97	7.959	7.959	(0.892)	94957	10.0000	10.446
58 Tetrachloroethene	164	8.093	8.093	(0.907)	235588	10.0000	10.020
59 1,3-Dichloropropane	76	8.118	8.118	(0.909)	162203	10.0000	10.151
60 2-Hexanone	43	8.251	8.251	(0.924)	252723	40.0000	41.502
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	77270	10.0000	10.337
62 1,2-Dibromoethane	107	8.434	8.434	(0.945)	83107	10.0000	10.228
63 Chlorobenzene (spcc)	112	8.957	8.957	(1.003)	641043	10.0000	10.206
64 1,1,1,2-Tetrachloroethane	131	9.054	9.054	(1.014)	132522	10.0000	11.487

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	65 Ethylbenzene (ccc)	106	9.091	9.091	(1.018)	413627	10.0000	10.205
	66 m&p-Xylene	106	9.219	9.219	(1.033)	1006655	20.0000	20.250
	67 o-Xylene	106	9.608	9.608	(1.076)	445288	10.0000	10.288
	68 Styrene	104	9.620	9.620	(1.078)	611863	10.0000	10.059
	69 Bromoform (spcc)	173	9.778	9.778	(1.095)	23227	10.0000	9.4227
	70 Isopropylbenzene	105	9.991	9.991	(1.119)	1257466	10.0000	10.097
	71 *cis-1,4-dichloro-2-butene	88	10.052	10.052	(1.126)	12831	10.0000	10.568
	72 Bromobenzene	156	10.253	10.253	(1.149)	188992	10.0000	10.255
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.289	10.289	(1.153)	70145	10.0000	10.428
	74 1,2,3-Trichloropropane	110	10.314	10.314	(0.898)	19928	10.0000	9.8818
	75 *trans-1,4-dichloro-2-butene	53	10.350	10.350	(0.901)	27019	10.0000	10.510
	76 n-Propylbenzene	91	10.405	10.405	(0.906)	1451976	10.0000	10.216
	77 2-Chlorotoluene	91	10.472	10.472	(0.912)	754561	10.0000	10.042
	78 1,3,5-Trimethylbenzene	105	10.612	10.612	(0.924)	974655	10.0000	10.152
	79 4-Chlorotoluene	91	10.594	10.594	(0.922)	833995	10.0000	10.391
	80 tert-Butylbenzene	119	10.989	10.989	(0.957)	874403	10.0000	10.252
	81 1,2,4-Trimethylbenzene	105	11.050	11.050	(0.962)	909993	10.0000	10.166
	82 sec-Butylbenzene	105	11.281	11.281	(0.982)	1280984	10.0000	10.217
	83 1,3-Dichlorobenzene	146	11.384	11.384	(0.991)	411236	10.0000	10.038
	84 p-Isopropyltoluene	119	11.500	11.500	(1.001)	1117278	10.0000	10.062
	85 1,4-Dichlorobenzene	146	11.518	11.518	(1.003)	377966	10.0000	9.8021
	86 1,2-Dichlorobenzene	146	12.078	12.078	(1.051)	313334	10.0000	10.386
	87 n-Butylbenzene	91	12.139	12.139	(1.057)	986769	10.0000	10.046
	88 1,2-Dibromo-3-chloropropane	157	13.258	13.258	(1.154)	9124	10.0000	10.656
	89 1,2,4-Trichlorobenzene	180	14.292	14.292	(1.244)	183193	10.0000	9.9645
	90 Hexachlorobutadiene	225	14.524	14.524	(1.264)	174520	10.0000	10.054
	91 Napthalene	128	14.542	14.542	(1.266)	185820	10.0000	9.7450
	92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	118336	10.0000	9.8369
M	93 *1,4-dichloro-2-butene(total)	53				39851	20.0000	21.079

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Date : 24-MAR-2006 15:24
Client ID: STD10
Sample Info: ICVZC243,1,1,3,,STD10
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Lab Smp Id: ICVZC244 Client Smp ID: STD20
Inj Date : 24-MAR-2006 15:48
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC244,1,1,4,,STD20
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 15:48 Cal File: icvzc244.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.667	5.666	(1.000)	1107007	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.927	(1.000)	193728	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.483	11.488	(1.000)	228655	10.0000	
$ 4 Dibromofluoromethane	113	4.821	4.826	(0.851)	380475	20.0000	21.449
$ 5 1,2-Dichloroethane-d4	65	5.229	5.228	(0.923)	314936	20.0000	20.532
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	1773741	20.0000	20.838
$ 7 4-Bromofluorobenzene	95	10.120	10.119	(0.881)	478911	20.0000	20.768
M 8 1,2-Dichloroethene (total)	96				1203524	40.0000	41.215
M 9 Xylene (total)	106				2895253	60.0000	62.038
10 Dichlorodifluoromethane	85	1.013	1.012	(0.179)	581459	20.0000	21.714
11 Chloromethane (spcc)	50	1.123	1.128	(0.198)	1410409	20.0000	17.392
12 Vinyl Chloride (ccc)	62	1.196	1.195	(0.211)	921392	20.0000	21.078
13 *1,3-Butadiene	39	1.220	1.219	(0.215)	848286	20.0000	22.478
15 Bromomethane	94	1.415	1.414	(0.250)	213182	20.0000	29.129
16 Chloroethane	64	1.481	1.481	(0.261)	422504	20.0000	20.226

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Report Date: 24-Mar-2006 17:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.615	1.614	(0.285)	393154	20.0000	21.797
18 Trichlorofluoromethane	101	1.664	1.669	(0.294)	731000	20.0000	21.732
19 *2-Chloropropane	43	1.950	1.949	(0.344)	1533951	20.0000	20.736
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	510722	20.0000	20.297
21 *Freon 113	151	2.084	2.083	(0.368)	393884	20.0000	20.690
22 Acetone	43	2.126	2.125	(0.375)	175036	80.0000	99.119
23 *Iodomethane	142	2.181	2.180	(0.385)	547814	20.0000	24.320
24 Carbon Disulfide	76	2.230	2.229	(0.393)	1746219	20.0000	20.459
26 *Acetonitrile	40	2.370	2.369	(0.418)	204586	400.000	416.74
27 Methylene Chloride	84	2.510	2.503	(0.443)	352407	20.0000	19.113
28 *t-butanol	59	2.704	2.697	(0.477)	407598	1000.00	1221.2
29 *Acrylonitrile	53	2.759	2.758	(0.487)	1678311	400.000	403.95
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	621701	20.0000	20.456
31 *MTBE	73	2.820	2.819	(0.498)	555537	20.0000	21.021
32 *Hexane	57	3.136	3.135	(0.553)	3240261	40.0000	41.330(A)
33 1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	1443852	20.0000	20.638
34 *Vinyl Acetate	86	3.404	3.409	(0.601)	60254	40.0000	45.329
35 2,2-Dichloropropane	77	4.097	4.096	(0.723)	801872	20.0000	22.934
36 cis 1,2-Dichloroethene	96	4.116	4.115	(0.726)	581823	20.0000	20.759
37 2-Butanone	43	4.176	4.169	(0.737)	350937	80.0000	83.802
38 Bromochloromethane	128	4.450	4.449	(0.785)	161172	20.0000	20.901
39 *THF	42	4.529	4.528	(0.799)	213431	80.0000	81.284
40 Chloroform (ccc)	83	4.614	4.607	(0.814)	830553	20.0000	20.930
41 1,1,1-Trichloroethane	97	4.815	4.814	(0.850)	777727	20.0000	22.475
42 Carbon Tetrachloride	117	5.034	5.039	(0.888)	551865	20.0000	26.925
43 1,1-Dichloropropene	75	5.046	5.039	(0.890)	789759	20.0000	20.820
44 Benzene	78	5.296	5.295	(0.934)	2165258	20.0000	19.761
45 1,2-Dichloroethane	62	5.326	5.325	(0.940)	478903	20.0000	20.795
46 Trichloroethene	130	6.111	6.110	(1.078)	651969	20.0000	21.175
47 1,2-Dichloropropane (ccc)	63	6.348	6.341	(1.120)	620611	20.0000	20.774
48 *Methyl Methacrylate	41	6.573	6.572	(1.160)	211954	20.0000	22.069
49 Dibromomethane	93	6.470	6.469	(1.142)	133319	20.0000	21.544
50 Bromodichloromethane	83	6.689	6.688	(1.180)	389855	20.0000	24.205
51 *2-Chloroethylvinylether	63	7.066	7.065	(1.247)	276224	40.0000	40.662
52 cis-1,3-Dichloropropene	75	7.182	7.181	(1.267)	523569	20.0000	21.857
53 4-Methyl-2-pentanone	43	7.376	7.375	(1.302)	805809	80.0000	82.993
54 Toluene (ccc)	91	7.528	7.528	(0.843)	2262138	20.0000	20.515
55 trans-1,3-Dichloropropene	75	7.784	7.783	(0.871)	345095	20.0000	23.883
56 *Ethyl Methacrylate	69	7.936	7.929	(0.888)	211070	20.0000	22.892
57 1,1,2-Trichloroethane	97	7.960	7.959	(0.891)	190780	20.0000	21.385
58 Tetrachloroethene	164	8.094	8.093	(0.906)	464292	20.0000	20.121
59 1,3-Dichloropropane	76	8.119	8.118	(0.909)	319536	20.0000	20.377
60 2-Hexanone	43	8.252	8.251	(0.924)	514176	80.0000	86.041
61 Chlorodibromomethane	129	8.350	8.349	(0.935)	186739	20.0000	25.456
62 1,2-Dibromoethane	107	8.435	8.434	(0.944)	167161	20.0000	20.964
63 Chlorobenzene (spcc)	112	8.958	8.957	(1.003)	1282488	20.0000	20.807
64 1,1,1,2-Tetrachloroethane	131	9.055	9.054	(1.014)	309111	20.0000	27.302

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Report Date: 24-Mar-2006 17:29

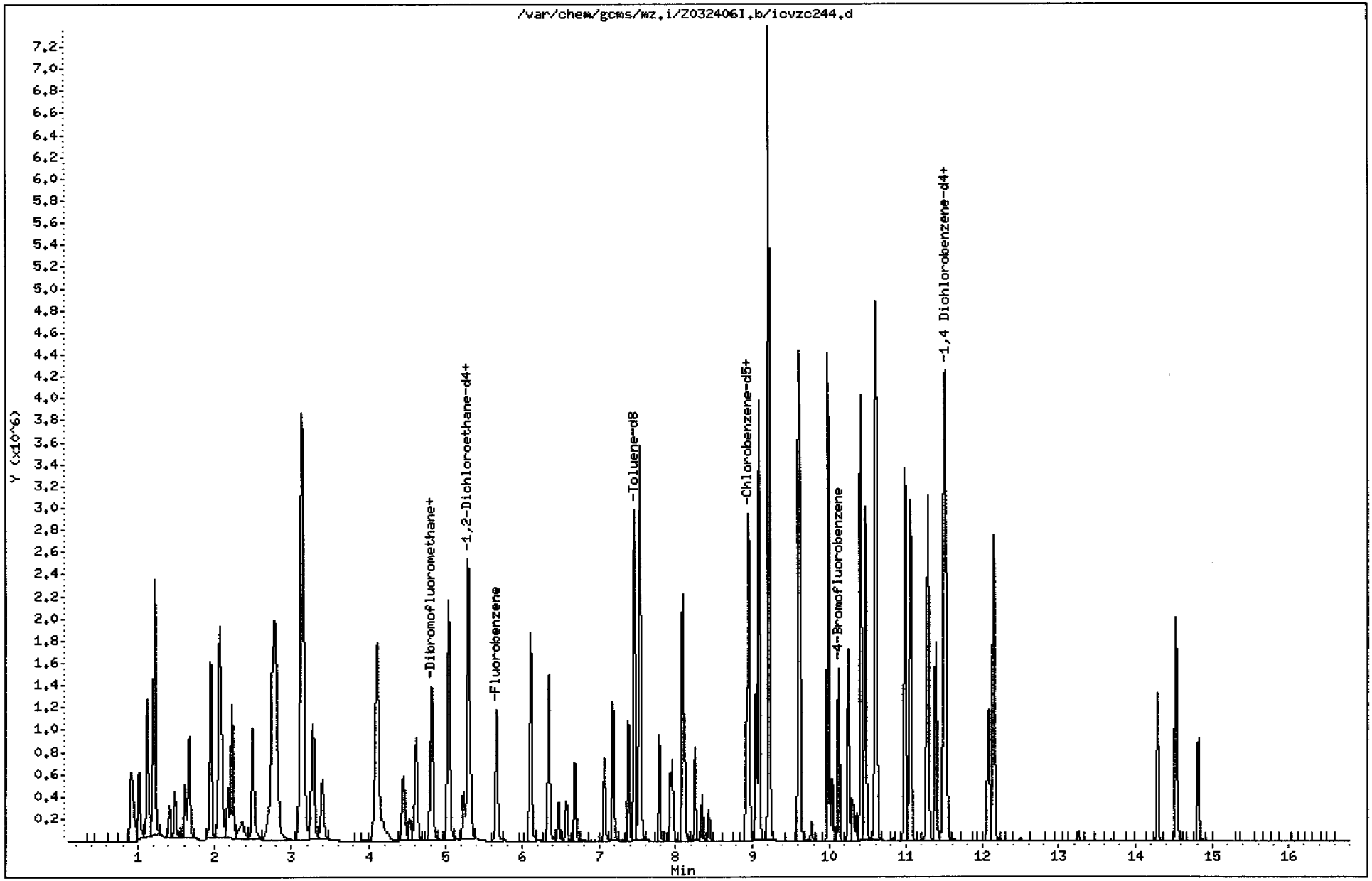
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	65 Ethylbenzene (ccc)	106	9.098	9.091	(1.018)	826543	20.0000	20.779
	66 m&p-Xylene	106	9.220	9.219	(1.032)	2011420	40.0000	41.230
	67 o-Xylene	106	9.609	9.608	(1.076)	883832	20.0000	20.808
	68 Styrene	104	9.627	9.620	(1.078)	1208211	20.0000	20.240
	69 Bromoform (spcc)	173	9.779	9.778	(1.095)	69535	20.0000	19.447
	70 Isopropylbenzene	105	9.992	9.991	(1.118)	2540209	20.0000	20.784
	71 *cis-1,4-dichloro-2-butene	88	10.053	10.052	(1.125)	31704	20.0000	18.992
	72 Bromobenzene	156	10.254	10.253	(1.148)	372177	20.0000	20.578
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.289	(1.152)	148060	20.0000	22.429
	74 1,2,3-Trichloropropane	110	10.315	10.314	(0.898)	40057	20.0000	20.368
	75 *trans-1,4-dichloro-2-butene	53	10.351	10.350	(0.901)	59782	20.0000	23.846
	76 n-Propylbenzene	91	10.412	10.405	(0.907)	2946550	20.0000	21.258
	77 2-Chlorotoluene	91	10.473	10.472	(0.912)	1533783	20.0000	20.931
	78 1,3,5-Trimethylbenzene	105	10.613	10.612	(0.924)	1997443	20.0000	21.335
	79 4-Chlorotoluene	91	10.601	10.594	(0.923)	1673329	20.0000	21.379
	80 tert-Butylbenzene	119	10.990	10.989	(0.957)	1785146	20.0000	21.461
	81 1,2,4-Trimethylbenzene	105	11.057	11.050	(0.963)	1845894	20.0000	21.146
	82 sec-Butylbenzene	105	11.282	11.281	(0.982)	2611459	20.0000	21.359
	83 1,3-Dichlorobenzene	146	11.391	11.384	(0.992)	844064	20.0000	21.128
	84 p-Isopropyltoluene	119	11.501	11.500	(1.002)	2301216	20.0000	21.250
	85 1,4-Dichlorobenzene	146	11.519	11.518	(1.003)	776593	20.0000	20.652
	86 1,2-Dichlorobenzene	146	12.073	12.078	(1.051)	639178	20.0000	21.725
	87 n-Butylbenzene	91	12.146	12.139	(1.058)	2027064	20.0000	21.162
	88 1,2-Dibromo-3-chloropropane	157	13.253	13.258	(1.154)	22173	20.0000	20.794
	89 1,2,4-Trichlorobenzene	180	14.293	14.292	(1.245)	378402	20.0000	21.106
	90 Hexachlorobutadiene	225	14.524	14.524	(1.265)	359657	20.0000	21.246
	91 Napthalene	128	14.543	14.542	(1.266)	404241	20.0000	21.739
	92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	255300	20.0000	21.762
M	93 *1,4-dichloro-2-butene(total)	53				91487	40.0000	42.837

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Date : 24-MAR-2006 15:48
Client ID: STD20
Sample Info: ICVZC244,1,1,4,,STD20
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Report Date: 24-Mar-2006 17:30

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Lab Smp Id: ICVZC245 Client Smp ID: STD40
Inj Date : 24-MAR-2006 16:11
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC245,1,1,5,,STD40
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 16:11 Cal File: icvzc245.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.666	5.666	(1.000)	1082096	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.927	(1.000)	194005	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	236275	10.0000	
$ 4 Dibromofluoromethane	113	4.826	4.826	(0.852)	724030	40.0000	41.757
$ 5 1,2-Dichloroethane-d4	65	5.234	5.228	(0.924)	613997	40.0000	40.950
$ 6 Toluene-d8	98	7.461	7.455	(0.835)	3425672	40.0000	40.187
$ 7 4-Bromofluorobenzene	95	10.125	10.119	(0.881)	933110	40.0000	39.160
M 8 1,2-Dichloroethene (total)	96				2261348	80.0000	79.245
M 9 Xylene (total)	106				5581725	120.000	119.46
10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	1109609	40.0000	42.391
11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	2424327	40.0000	30.584
12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	1748930	40.0000	40.930
13 *1,3-Butadiene	39	1.219	1.219	(0.215)	1375708	40.0000	37.428
15 Bromomethane	94	1.414	1.414	(0.249)	458442	40.0000	64.084
16 Chloroethane	64	1.487	1.481	(0.262)	801482	40.0000	39.251

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Report Date: 24-Mar-2006 17:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.614	1.614	(0.285)	741266	40.0000	42.042
18 Trichlorofluoromethane	101	1.669	1.669	(0.295)	1374093	40.0000	41.792
19 *2-Chloropropane	43	1.955	1.949	(0.345)	2907354	40.0000	40.207
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	970329	40.0000	39.946
21 *Freon 113	151	2.089	2.083	(0.369)	719834	40.0000	38.681
22 Acetone	43	2.125	2.125	(0.375)	241819	160.000	143.60
23 *Iodomethane	142	2.180	2.180	(0.385)	1119237	40.0000	50.833
24 Carbon Disulfide	76	2.235	2.229	(0.394)	3232287	40.0000	38.741
26 *Acetonitrile	40	2.363	2.369	(0.417)	411749	800.000	858.04(A)
27 Methylene Chloride	84	2.509	2.503	(0.443)	733303	40.0000	40.370
28 *t-butanol	59	2.703	2.697	(0.477)	842811	2000.00	2583.3
29 *Acrylonitrile	53	2.764	2.758	(0.488)	3236373	800.000	796.89
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	1160594	40.0000	39.067
31 *MTBE	73	2.825	2.819	(0.499)	1102546	40.0000	42.679
32 *Hexane	57	3.141	3.135	(0.554)	6159086	80.0000	80.369(A)
33 1,1-Dichloroethane (spcc)	63	3.281	3.275	(0.579)	2786982	40.0000	40.754
34 *Vinyl Acetate	86	3.403	3.409	(0.601)	126016	80.0000	96.984(A)
35 2,2-Dichloropropane	77	4.096	4.096	(0.723)	1562391	40.0000	45.578
36 cis 1,2-Dichloroethene	96	4.121	4.115	(0.727)	1100754	40.0000	40.178
37 2-Butanone	43	4.176	4.169	(0.737)	670572	160.000	163.82
38 Bromochloromethane	128	4.455	4.449	(0.786)	311208	40.0000	41.287
39 *THF	42	4.528	4.528	(0.799)	415012	160.000	161.69
40 Chloroform (ccc)	83	4.614	4.607	(0.814)	1618287	40.0000	41.720
41 1,1,1-Trichloroethane	97	4.814	4.814	(0.850)	1533775	40.0000	45.345
42 Carbon Tetrachloride	117	5.039	5.039	(0.889)	1165263	40.0000	58.160
43 1,1-Dichloropropene	75	5.052	5.039	(0.892)	1499758	40.0000	40.448
44 Benzene	78	5.301	5.295	(0.936)	4199733	40.0000	39.211
45 1,2-Dichloroethane	62	5.331	5.325	(0.941)	936763	40.0000	41.612
46 Trichloroethene	130	6.110	6.110	(1.078)	1210698	40.0000	40.227
47 1,2-Dichloropropane (ccc)	63	6.347	6.341	(1.120)	1192416	40.0000	40.833
48 *Methyl Methacrylate	41	6.572	6.572	(1.160)	424629	40.0000	45.231
49 Dibromomethane	93	6.475	6.469	(1.143)	245914	40.0000	40.654
50 Bromodichloromethane	83	6.688	6.688	(1.180)	793046	40.0000	50.371
51 *2-Chloroethylvinylether	63	7.065	7.065	(1.247)	538930	80.0000	81.159(A)
52 cis-1,3-Dichloropropene	75	7.187	7.181	(1.268)	1029163	40.0000	43.952
53 4-Methyl-2-pentanone	43	7.381	7.375	(1.303)	1540299	160.000	162.29
54 Toluene (ccc)	91	7.527	7.528	(0.843)	4414100	40.0000	39.975
55 trans-1,3-Dichloropropene	75	7.783	7.783	(0.871)	671229	40.0000	46.387
56 *Ethyl Methacrylate	69	7.935	7.929	(0.888)	408592	40.0000	44.251
57 1,1,2-Trichloroethane	97	7.959	7.959	(0.891)	361732	40.0000	40.489
58 Tetrachloroethene	164	8.093	8.093	(0.906)	876692	40.0000	37.939
59 1,3-Dichloropropane	76	8.124	8.118	(0.909)	617210	40.0000	39.303
60 2-Hexanone	43	8.251	8.251	(0.924)	962806	160.000	160.88
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	396499	40.0000	53.974
62 1,2-Dibromoethane	107	8.440	8.434	(0.945)	328555	40.0000	41.146
63 Chlorobenzene (spcc)	112	8.963	8.957	(1.003)	2468389	40.0000	39.989
64 1,1,1,2-Tetrachloroethane	131	9.054	9.054	(1.014)	635577	40.0000	56.056

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Report Date: 24-Mar-2006 17:30

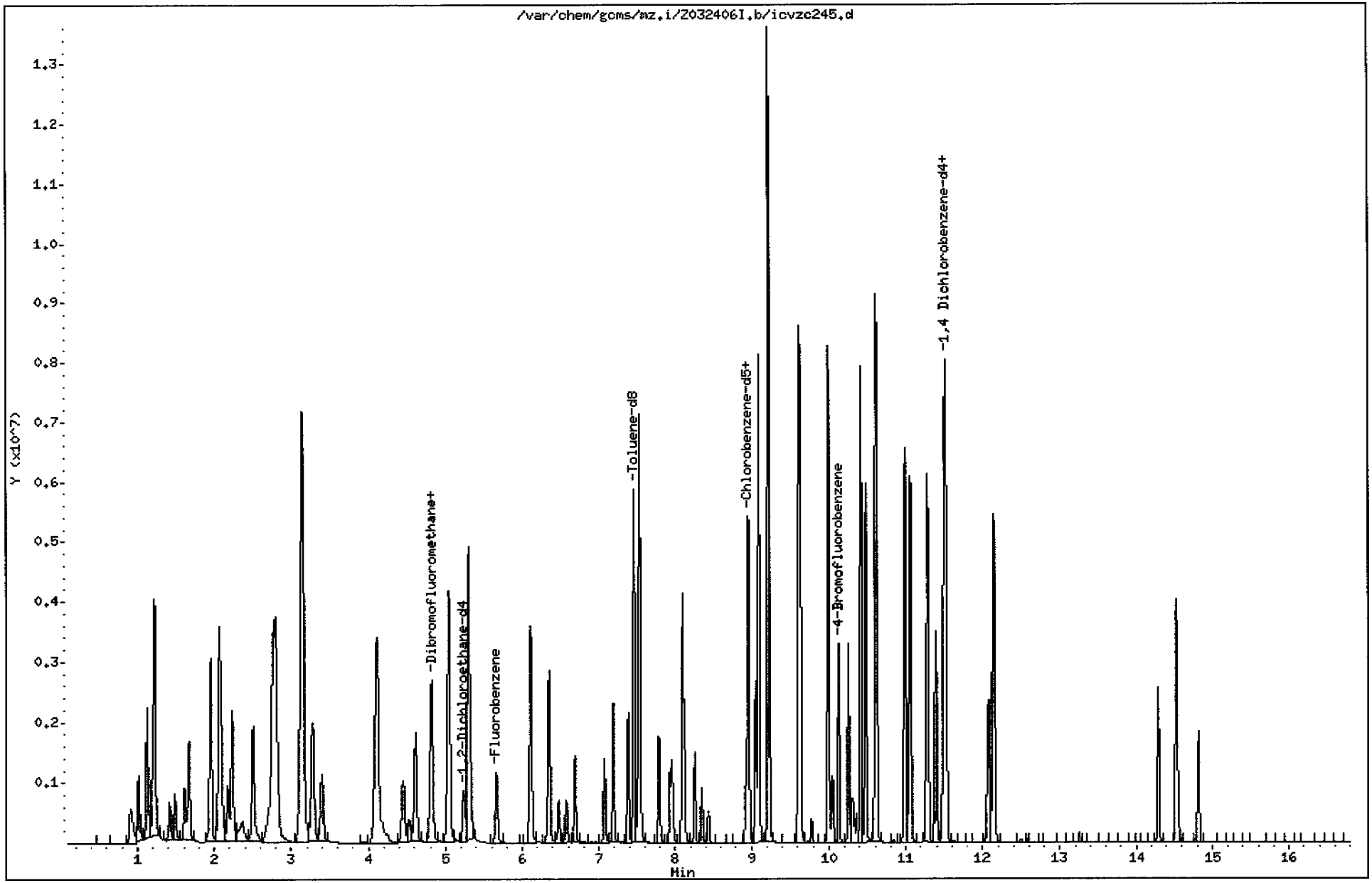
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	65 Ethylbenzene (ccc)	106	9.097	9.091	(1.018)	1591284	40.0000	39.948
	66 m&p-Xylene	106	9.225	9.219	(1.033)	3869161	80.0000	79.197
	67 o-Xylene	106	9.614	9.608	(1.076)	1712564	40.0000	40.260(A)
	68 Styrene	104	9.626	9.620	(1.078)	2381311	40.0000	39.834
	69 Bromoform (spcc)	173	9.778	9.778	(1.095)	155740	40.0000	42.161
	70 Isopropylbenzene	105	9.991	9.991	(1.118)	4994860	40.0000	40.810
	71 *cis-1,4-dichloro-2-butene	88	10.052	10.052	(1.125)	72559	40.0000	42.165
	72 Bromobenzene	156	10.253	10.253	(1.148)	732202	40.0000	40.427
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.295	10.289	(1.153)	276593	40.0000	41.840
	74 1,2,3-Trichloropropane	110	10.314	10.314	(0.898)	76193	40.0000	37.494
	75 *trans-1,4-dichloro-2-butene	53	10.350	10.350	(0.901)	118001	40.0000	45.550
	76 n-Propylbenzene	91	10.411	10.405	(0.906)	5917981	40.0000	41.318
	77 2-Chlorotoluene	91	10.478	10.472	(0.912)	3044760	40.0000	40.212
	78 1,3,5-Trimethylbenzene	105	10.618	10.612	(0.924)	3917827	40.0000	40.498
	79 4-Chlorotoluene	91	10.600	10.594	(0.923)	3291203	40.0000	40.693
	80 tert-Butylbenzene	119	10.995	10.989	(0.957)	3537781	40.0000	41.160
	81 1,2,4-Trimethylbenzene	105	11.056	11.050	(0.962)	3700698	40.0000	41.027
	82 sec-Butylbenzene	105	11.287	11.281	(0.983)	5258605	40.0000	41.623
	83 1,3-Dichlorobenzene	146	11.390	11.384	(0.992)	1667487	40.0000	40.393
	84 p-Isopropyltoluene	119	11.506	11.500	(1.002)	4561658	40.0000	40.766
	85 1,4-Dichlorobenzene	146	11.524	11.518	(1.003)	1510014	40.0000	38.861
	86 1,2-Dichlorobenzene	146	12.078	12.078	(1.051)	1242829	40.0000	40.880
	87 n-Butylbenzene	91	12.145	12.139	(1.057)	4102024	40.0000	41.443
	88 1,2-Dibromo-3-chloropropane	157	13.258	13.258	(1.154)	45425	40.0000	40.518
	89 1,2,4-Trichlorobenzene	180	14.292	14.292	(1.244)	743125	40.0000	40.112
	90 Hexachlorobutadiene	225	14.530	14.524	(1.265)	704667	40.0000	40.284
	91 Napthalene	128	14.548	14.542	(1.266)	790581	40.0000	41.144
	92 1,2,3-Trichlorobenzene	180	14.815	14.816	(1.290)	504335	40.0000	41.603
M	93 *1,4-dichloro-2-butene(total)	53				190560	80.0000	87.715

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Date : 24-MAR-2006 16:11
Client ID: STD40
Sample Info: ICVZC245,1,1,5,,STD40
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Report Date: 24-Mar-2006 17:30

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Lab Smp Id: ICVZC246 Client Smp ID: STD80
Inj Date : 24-MAR-2006 16:34
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC246,1,1,6,,STD80
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 16:34 Cal File: icvzc246.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.666	5.666	(1.000)	1118051	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.927	(1.000)	190829	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	230846	10.0000	
$ 4 Dibromofluoromethane	113	4.826	4.826	(0.852)	185502	80.0000	10.354
$ 5 1,2-Dichloroethane-d4	65	5.234	5.228	(0.924)	159929	80.0000	10.323
$ 6 Toluene-d8	98	7.461	7.455	(0.835)	880227	80.0000	10.498
$ 7 4-Bromofluorobenzene	95	10.125	10.119	(0.881)	235988	80.0000	10.136
M 8 1,2-Dichloroethene (total)	96				4713126	160.000	159.81
M 9 Xylene (total)	106				10020075	240.000	221.37
10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	2301332	80.0000	84.324(A)
11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	4768731	80.0000	60.992
12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	3468283	80.0000	78.760
13 *1,3-Butadiene	39	1.225	1.219	(0.216)	2868524	80.0000	72.236
15 Bromomethane	94	1.414	1.414	(0.249)	963744	80.0000	105.57(A)
16 Chloroethane	64	1.480	1.481	(0.261)	1569558	80.0000	75.273

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Report Date: 24-Mar-2006 17:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.614	1.614	(0.285)	1450251	80.0000	79.664
18 Trichlorofluoromethane	101	1.669	1.669	(0.295)	2555712	80.0000	75.876
19 *2-Chloropropane	43	1.955	1.949	(0.345)	5617462	80.0000	75.949
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	1854745	80.0000	76.328(A)
21 *Freon 113	151	2.089	2.083	(0.369)	1389312	80.0000	73.440
22 Acetone	43	2.131	2.125	(0.376)	590732	320.000	278.28(A)
23 *Iodomethane	142	2.180	2.180	(0.385)	2352430	80.0000	99.257(A)
24 Carbon Disulfide	76	2.235	2.229	(0.394)	6655650	80.0000	77.594
26 *Acetonitrile	40	2.369	2.369	(0.418)	815113	1600.00	1636.5(A)
27 Methylene Chloride	84	2.509	2.503	(0.443)	1468213	80.0000	78.519
28 *t-butanol	59	2.709	2.697	(0.478)	1794644	4000.00	5045.5(A)
29 *Acrylonitrile	53	2.770	2.758	(0.489)	6510629	1600.00	1559.4
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	2444415	80.0000	79.687
31 *MTBE	73	2.825	2.819	(0.499)	2255591	80.0000	83.831(A)
32 *Hexane	57	3.147	3.135	(0.555)	12103885	160.000	154.01(A)
33 1,1-Dichloroethane (spcc)	63	3.281	3.275	(0.579)	5791048	80.0000	81.674(A)
34 *Vinyl Acetate	86	3.403	3.409	(0.601)	265402	160.000	190.22(A)
35 2,2-Dichloropropane	77	4.102	4.096	(0.724)	3172913	80.0000	88.076(A)
36 cis 1,2-Dichloroethene	96	4.121	4.115	(0.727)	2268711	80.0000	80.125(A)
37 2-Butanone	43	4.175	4.169	(0.737)	1366804	320.000	322.63(A)
38 Bromochloromethane	128	4.455	4.449	(0.786)	621691	80.0000	79.850
39 *THF	42	4.534	4.528	(0.800)	850192	320.000	320.49(A)
40 Chloroform (ccc)	83	4.613	4.607	(0.814)	3384994	80.0000	83.793(A)
41 1,1,1-Trichloroethane	97	4.820	4.814	(0.851)	3247602	80.0000	90.829(A)
42 Carbon Tetrachloride	117	5.039	5.039	(0.889)	2475319	80.0000	111.68(A)
43 1,1-Dichloropropene	75	5.051	5.039	(0.892)	3066658	80.0000	80.041(A)
44 Benzene	78	5.301	5.295	(0.936)	8625092	80.0000	78.227
45 1,2-Dichloroethane	62	5.337	5.325	(0.942)	1910102	80.0000	81.811(A)
46 Trichloroethene	130	6.116	6.110	(1.079)	2441960	80.0000	78.735
47 1,2-Dichloropropane (ccc)	63	6.353	6.341	(1.121)	2386899	80.0000	79.234
48 *Methyl Methacrylate	41	6.572	6.572	(1.160)	863742	80.0000	87.398(A)
49 Dibromomethane	93	6.475	6.469	(1.143)	513100	80.0000	81.792(A)
50 Bromodichloromethane	83	6.688	6.688	(1.180)	1662952	80.0000	98.325(A)
51 *2-Chloroethylvinylether	63	7.071	7.065	(1.248)	1074769	160.000	157.20(A)
52 cis-1,3-Dichloropropene	75	7.187	7.181	(1.268)	2085222	80.0000	85.247(A)
53 4-Methyl-2-pentanone	43	7.381	7.375	(1.303)	3056403	320.000	313.04
54 Toluene (ccc)	91	7.534	7.528	(0.843)	8681941	80.0000	79.943
55 trans-1,3-Dichloropropene	75	7.789	7.783	(0.872)	1388723	80.0000	94.601(A)
56 *Ethyl Methacrylate	69	7.935	7.929	(0.888)	820290	80.0000	88.416(A)
57 1,1,2-Trichloroethane	97	7.965	7.959	(0.892)	718019	80.0000	81.458(A)
58 Tetrachloroethene	164	8.099	8.093	(0.907)	1704353	80.0000	75.662(A)
59 1,3-Dichloropropane	76	8.124	8.118	(0.909)	1237708	80.0000	80.109(A)
60 2-Hexanone	43	8.257	8.251	(0.924)	1919701	320.000	325.08(A)
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	826913	80.0000	106.78(A)
62 1,2-Dibromoethane	107	8.440	8.434	(0.945)	650211	80.0000	82.373(A)
63 Chlorobenzene (spcc)	112	8.963	8.957	(1.003)	4801038	80.0000	79.205
64 1,1,1,2-Tetrachloroethane	131	9.060	9.054	(1.014)	1296966	80.0000	109.21(A)

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Report Date: 24-Mar-2006 17:30

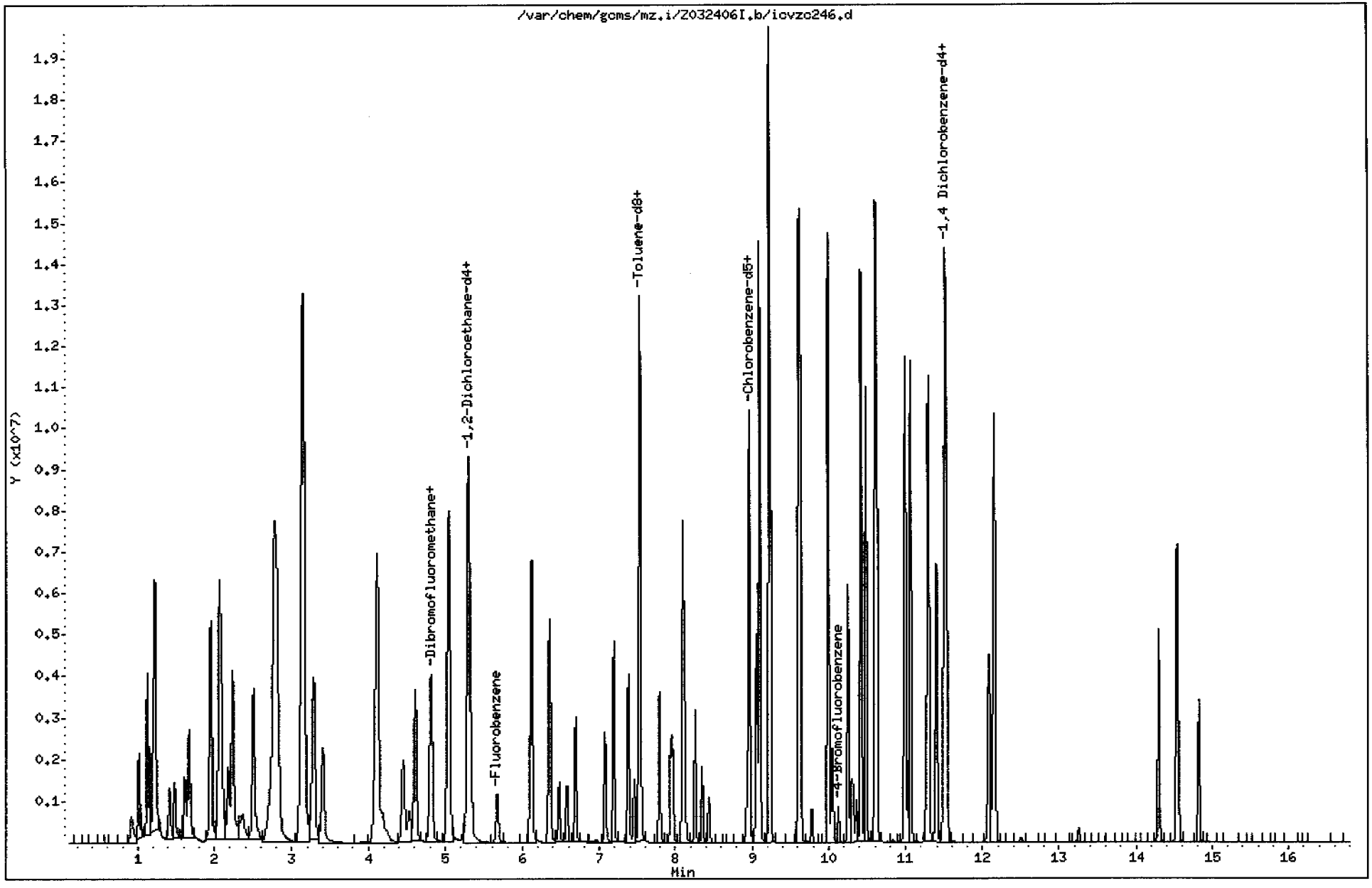
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
65	Ethylbenzene (ccc)	106	9.103	9.091	(1.019)	3064738	80.0000	78.468
66	m&p-Xylene	106	9.231	9.219	(1.033)	6749452	160.000	142.95(A)
67	o-Xylene	106	9.614	9.608	(1.076)	3270622	80.0000	78.425(A)
68	Styrene	104	9.632	9.620	(1.078)	4564771	80.0000	77.960
69	Bromoform (spcc)	173	9.784	9.778	(1.095)	345341	80.0000	127.66(A)
70	Isopropylbenzene	105	9.997	9.991	(1.119)	9367183	80.0000	78.113
71	*cis-1,4-dichloro-2-butene	88	10.058	10.052	(1.126)	157150	80.0000	120.38(A)
72	Bromobenzene	156	10.259	10.253	(1.148)	1428813	80.0000	80.173(A)
73	1,1,2,2-Tetrachloroethane(sp)	83	10.295	10.289	(1.153)	560963	80.0000	85.314(A)
74	1,2,3-Trichloropropane	110	10.320	10.314	(0.898)	159966	80.0000	80.487(A)
75	*trans-1,4-dichloro-2-butene	53	10.356	10.350	(0.902)	245666	80.0000	93.729(A)
76	n-Propylbenzene	91	10.417	10.405	(0.907)	11077770	80.0000	79.281
77	2-Chlorotoluene	91	10.484	10.472	(0.913)	5987659	80.0000	80.802(A)
78	1,3,5-Trimethylbenzene	105	10.624	10.612	(0.925)	7280244	80.0000	77.435
79	4-Chlorotoluene	91	10.606	10.594	(0.923)	6154325	80.0000	78.179
80	tert-Butylbenzene	119	11.001	10.989	(0.958)	6830794	80.0000	81.147(A)
81	1,2,4-Trimethylbenzene	105	11.062	11.050	(0.963)	7164714	80.0000	81.111(A)
82	sec-Butylbenzene	105	11.293	11.281	(0.983)	10237688	80.0000	82.506(A)
83	1,3-Dichlorobenzene	146	11.403	11.384	(0.993)	3269358	80.0000	80.907(A)
84	p-Isopropyltoluene	119	11.512	11.500	(1.002)	8494008	80.0000	78.015
85	1,4-Dichlorobenzene	146	11.530	11.518	(1.004)	2826394	80.0000	75.195
86	1,2-Dichlorobenzene	146	12.084	12.078	(1.052)	2437142	80.0000	81.750(A)
87	n-Butylbenzene	91	12.157	12.139	(1.058)	8114803	80.0000	83.331(A)
88	1,2-Dibromo-3-chloropropane	157	13.258	13.258	(1.154)	94455	80.0000	105.03(A)
89	1,2,4-Trichlorobenzene	180	14.298	14.292	(1.245)	1432764	80.0000	79.295
90	Hexachlorobutadiene	225	14.536	14.524	(1.265)	1297420	80.0000	76.566
91	Napthalene	128	14.548	14.542	(1.266)	1585750	80.0000	83.688(A)
92	1,2,3-Trichlorobenzene	180	14.822	14.816	(1.290)	975703	80.0000	81.974(A)
M 93	*1,4-dichloro-2-butene(total)	53				402817	160.000	214.11

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Date : 24-MAR-2006 16:34
Client ID: STD80
Sample Info: ICVZC246,1,1,6,,STD80
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Lab Smp Id: H10CE1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 24-MAR-2006 17:21
Operator : 22980 Inst ID: mz.i
Smp Info : H10CE1AC,1,3,,LCS & 2ND SOURCE
Misc Info : Z032406I,8260B_LM,ss.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 28-Mar-2006 11:44 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	5.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.667	5.666	(1.000)	1110859	10.0000	
* 2 Chlorobenzene-d5	119	8.928	8.927	(1.000)	193027	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.483	11.488	(1.000)	236284	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.229	5.228	(0.923)	149329	9.70148	48.507
$ 4 Dibromofluoromethane	113	4.821	4.826	(0.851)	184495	10.3649	51.825
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	883426	10.4162	52.081
$ 7 4-Bromofluorobenzene	95	10.120	10.119	(0.881)	234321	9.83329	49.166
10 Dichlorodifluoromethane	85	1.013	1.012	(0.179)	279356	10.3023	51.512
11 Chloromethane (spcc)	50	1.123	1.128	(0.198)	715520	10.9334	54.667
12 Vinyl Chloride (ccc)	62	1.196	1.195	(0.211)	459931	10.5121	52.560
15 Bromomethane	94	1.408	1.414	(0.249)	105550	9.74105	48.705
16 Chloroethane	64	1.481	1.481	(0.261)	208234	10.0511	50.256
18 Trichlorofluoromethane	101	1.664	1.669	(0.294)	330525	9.73464	48.673
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	251498	10.4168	52.084

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	23 *Iodomethane	142	2.181	2.180	(0.385)	597926	21.1897	105.95
	24 Carbon Disulfide	76	2.230	2.229	(0.393)	1715196	20.1259	100.63
	22 Acetone	43	2.126	2.125	(0.375)	38108	11.3726	56.863(R)
	27 Methylene Chloride	84	2.510	2.503	(0.443)	173445	9.33581	46.679
	30 trans-1,2-Dichloroethene	96	2.789	2.795	(0.492)	295003	9.67931	48.396
	31 *MTBE	73	2.826	2.819	(0.499)	250391	9.36627	46.831
	33 1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	693586	9.84534	49.227
	34 *Vinyl Acetate	86	3.392	3.409	(0.598)	24635	16.6335	83.168
	35 2,2-Dichloropropane	77	4.097	4.096	(0.723)	377422	10.5445	52.723
	36 cis 1,2-Dichloroethene	96	4.116	4.115	(0.726)	269097	9.56535	47.827
M	8 1,2-Dichloroethene (total)	96				564101	19.2447	96.223
	37 2-Butanone	43	4.176	4.169	(0.737)	76287	18.1242	90.621
	38 Bromochloromethane	128	4.444	4.449	(0.784)	77936	10.0751	50.375
	40 Chloroform (ccc)	83	4.608	4.607	(0.813)	375212	9.34826	46.741
	41 1,1,1-Trichloroethane	97	4.809	4.814	(0.849)	386220	10.8717	54.358
	42 Carbon Tetrachloride	117	5.034	5.039	(0.888)	270953	9.47381	47.369
	43 1,1-Dichloropropene	75	5.046	5.039	(0.890)	393707	10.3425	51.712
	44 Benzene	78	5.296	5.295	(0.934)	1048995	9.57566	47.878
	45 1,2-Dichloroethane	62	5.326	5.325	(0.940)	227976	9.82759	49.138
	46 Trichloroethene	130	6.111	6.110	(1.078)	322453	10.4640	52.320
	47 1,2-Dichloropropane (ccc)	63	6.342	6.341	(1.119)	307289	10.2666	51.333
	49 Dibromomethane	93	6.470	6.469	(1.142)	65689	10.5392	52.696
	50 Bromodichloromethane	83	6.689	6.688	(1.180)	194803	10.1071	50.535
	52 cis-1,3-Dichloropropene	75	7.182	7.181	(1.267)	253308	10.4227	52.114
	53 4-Methyl-2-pentanone	43	7.376	7.375	(1.302)	190075	19.5937	97.968
	54 Toluene (ccc)	91	7.528	7.528	(0.843)	1115481	10.1543	50.772
	55 trans-1,3-Dichloropropene	75	7.784	7.783	(0.872)	158316	9.64211	48.210
	57 1,1,2-Trichloroethane	97	7.960	7.959	(0.892)	93771	10.5171	52.585
	58 Tetrachloroethene	164	8.094	8.093	(0.907)	230773	10.1281	50.641
	59 1,3-Dichloropropane	76	8.119	8.118	(0.909)	160180	10.2494	51.247
	60 2-Hexanone	43	8.252	8.251	(0.924)	121460	20.3338	101.67
	61 Chlorodibromomethane	129	8.350	8.349	(0.935)	87235	9.35318	46.766
	62 1,2-Dibromoethane	107	8.435	8.434	(0.945)	82847	10.3761	51.881
	63 Chlorobenzene (spcc)	112	8.958	8.957	(1.003)	620686	10.1232	50.616
	65 Ethylbenzene (ccc)	106	9.092	9.091	(1.018)	416923	10.5532	52.766
	64 1,1,1,2-Tetrachloroethane	131	9.055	9.054	(1.014)	151683	9.82814	49.141
	66 m&p-Xylene	106	9.220	9.219	(1.033)	993957	20.8113	104.06
	67 o-Xylene	106	9.609	9.608	(1.076)	436681	10.3518	51.759
M	9 Xylene (total)	106				1430638	31.1630	155.82
	68 Styrene	104	9.621	9.620	(1.078)	655213	11.0627	55.314
	69 Bromoform (spcc)	173	9.779	9.778	(1.095)	32735	10.9300	54.650
	70 Isopropylbenzene	105	9.992	9.991	(1.119)	1117859	9.21575	46.079
	72 Bromobenzene	156	10.254	10.253	(1.149)	185007	10.2628	51.314
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.289	(1.153)	70910	10.6615	53.308
	76 n-Propylbenzene	91	10.406	10.405	(0.906)	1445852	10.1095	50.547
	74 1,2,3-Trichloropropane	110	10.309	10.314	(0.898)	20738	10.1942	50.971
	77 2-Chlorotoluene	91	10.473	10.472	(0.912)	753997	9.94088	49.704

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
78 1,3,5-Trimethylbenzene	105	10.613	10.612	(0.924)	1011039	10.5063	52.531
79 4-Chlorotoluene	91	10.594	10.594	(0.923)	805918	10.0020	50.010
80 tert-Butylbenzene	119	10.990	10.989	(0.957)	878401	10.1949	50.974
81 1,2,4-Trimethylbenzene	105	11.051	11.050	(0.962)	923566	10.2149	51.075
82 sec-Butylbenzene	105	11.282	11.281	(0.983)	1355045	10.6691	53.345
83 1,3-Dichlorobenzene	146	11.385	11.384	(0.992)	413200	9.99008	49.950
84 p-Isopropyltoluene	119	11.501	11.500	(1.002)	1094885	9.82472	49.124
85 1,4-Dichlorobenzene	146	11.519	11.518	(1.003)	388708	10.1034	50.517
87 n-Butylbenzene	91	12.140	12.139	(1.057)	1019789	10.2312	51.156
86 1,2-Dichlorobenzene	146	12.073	12.078	(1.051)	294000	9.63475	48.174
88 1,2-Dibromo-3-chloropropane	157	13.259	13.258	(1.155)	10617	9.72403	48.620
89 1,2,4-Trichlorobenzene	180	14.293	14.292	(1.245)	189299	10.2355	51.178
90 Hexachlorobutadiene	225	14.524	14.524	(1.265)	194786	11.2306	56.153
91 Napthalene	128	14.543	14.542	(1.266)	203415	10.4882	52.441
92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	130611	10.7208	53.604

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h10ce1ac.d
Lab Smp Id: H10CE1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Misc Info: Z032406I,8260B_LM,ss.sub

Calibration Date: 24-MAR-2006
Calibration Time: 15:24
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1140841	570420	2281682	1110859	-2.63
2 Chlorobenzene-d5	197405	98702	394810	193027	-2.22
3 1,4 Dichlorobenze	234469	117234	468938	236284	0.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.02
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.05

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.

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: H10CE1AC
Level: LOW
Data Type: MS DATA
SpikeList File: ssallcmpds.spk
Sublist File: ss.sub
Method File: /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Misc Info: Z032406I,8260B_LM,ss.sub

Client SDG: H6C240000
Fraction: VOA
Client Smp ID: INTRA-LAB CHECK
Operator: 22980
SampleType: METHOD SPIKE
Quant Type: ISTD

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	10	Dichlorodifluorome	50.000	51.512	103.02	70-130
	11	Chloromethane (spc	50.000	54.667	109.33	70-130
	12	Vinyl Chloride (cc	50.000	52.560	105.12	70-130
	15	Bromomethane	50.000	48.705	97.41	70-130
	16	Chloroethane	50.000	50.256	100.51	70-130
	18	Trichlorofluoromet	50.000	48.673	97.35	70-130
	20	1,1-Dichloroethene	50.000	52.084	104.17	70-130
	22	Acetone	100.00	56.863	56.86*	70-130
	23	*Iodomethane	100.00	105.95	105.95	70-130
	24	Carbon Disulfide	100.00	100.63	100.63	70-130
	27	Methylene Chloride	50.000	46.679	93.36	70-130
	30	trans-1,2-Dichloro	50.000	48.396	96.79	70-130
	31	*MTBE	50.000	46.831	93.66	70-130
	33	1,1-Dichloroethane	50.000	49.227	98.45	70-130
	34	*Vinyl Acetate	100.00	83.168	83.17	70-130
	35	2,2-Dichloropropan	50.000	52.723	105.45	70-130
	36	cis 1,2-Dichloroet	50.000	47.827	95.65	70-130
	37	2-Butanone	100.00	90.621	90.62	70-130
M	8	1,2-Dichloroethene	100.00	96.223	96.22	70-130
	38	Bromochloromethane	50.000	50.375	100.75	70-130
	40	Chloroform (ccc)	50.000	46.741	93.48	70-130
	41	1,1,1-Trichloroeth	50.000	54.358	108.72	70-130
	42	Carbon Tetrachlori	50.000	47.369	94.74	70-130
	43	1,1-Dichloropropen	50.000	51.712	103.42	70-130
	44	Benzene	50.000	47.878	95.76	70-130
	45	1,2-Dichloroethane	50.000	49.138	98.28	70-130
	46	Trichloroethene	50.000	52.320	104.64	70-130
	47	1,2-Dichloropropan	50.000	51.333	102.67	70-130
	49	Dibromomethane	50.000	52.696	105.39	70-130
	50	Bromodichlorometha	50.000	50.535	101.07	70-130
	52	cis-1,3-Dichloropr	50.000	52.114	104.23	70-130
	53	4-Methyl-2-pentano	100.00	97.968	97.97	70-130
	54	Toluene (ccc)	50.000	50.772	101.54	70-130

to Rerun Next day for acetone.
3/29/06

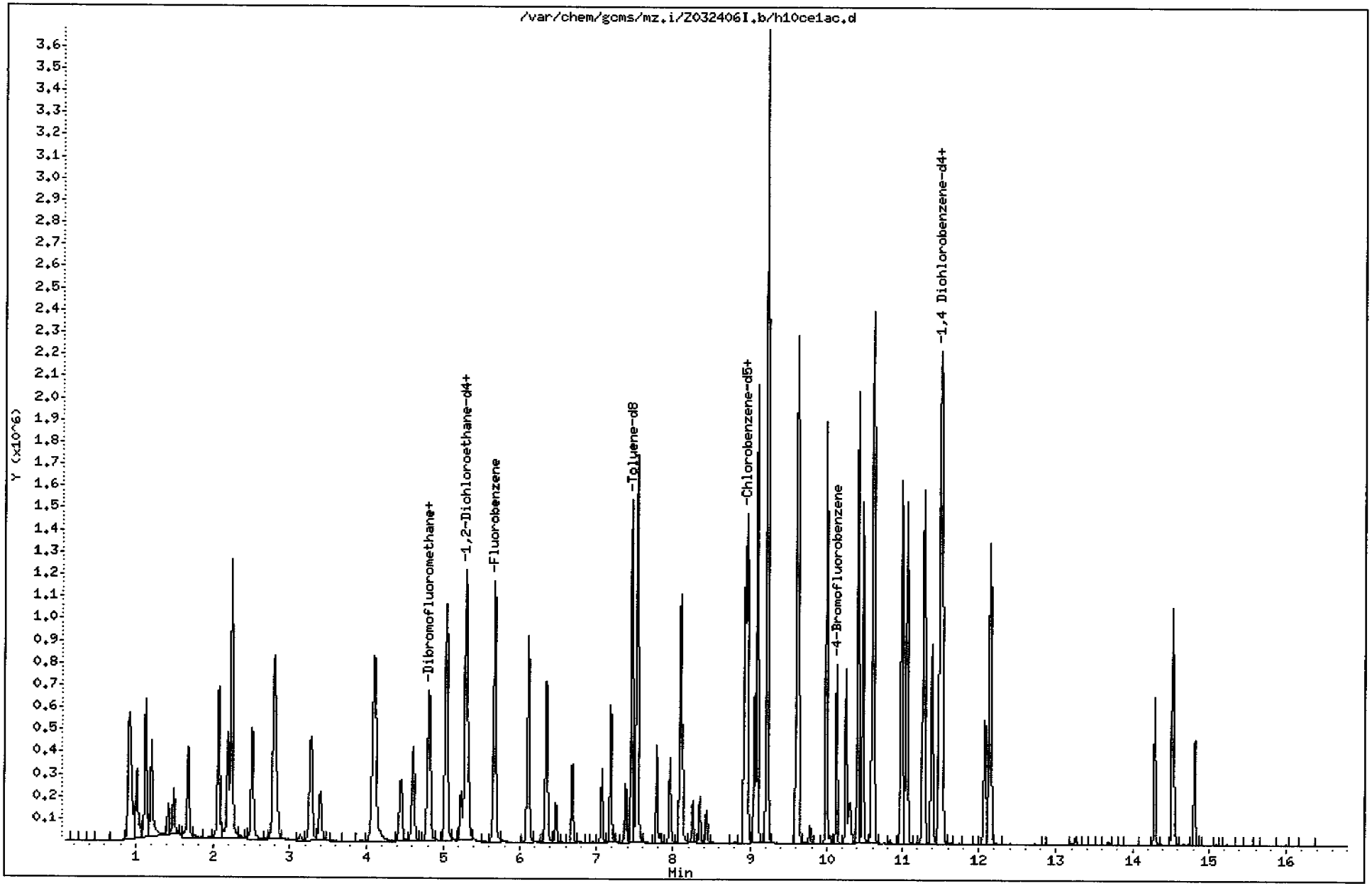
Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	55	trans-1,3-Dichloro	50.000	48.210	96.42	70-130
	57	1,1,2-Trichloroeth	50.000	52.585	105.17	70-130
	58	Tetrachloroethene	50.000	50.641	101.28	70-130
	59	1,3-Dichloropropan	50.000	51.247	102.49	70-130
	60	2-Hexanone	100.00	101.67	101.67	70-130
	61	Chlorodibromometha	50.000	46.766	93.53	70-130
	62	1,2-Dibromoethane	50.000	51.881	103.76	70-130
	63	Chlorobenzene (spc	50.000	50.616	101.23	70-130
	65	Ethylbenzene (ccc)	50.000	52.766	105.53	70-130
	64	1,1,1,2-Tetrachlor	50.000	49.141	98.28	70-130
	66	m&p-Xylene	100.00	104.06	104.06	70-130
	67	o-Xylene	50.000	51.759	103.52	70-130
M	9	Xylene (total)	150.00	155.82	103.88	70-130
	68	Styrene	50.000	55.314	110.63	70-130
	69	Bromoform (spcc)	50.000	54.650	109.30	70-130
	70	Isopropylbenzene	50.000	46.079	92.16	70-130
	72	Bromobenzene	50.000	51.314	102.63	70-130
	73	1,1,2,2-Tetrachlor	50.000	53.308	106.62	70-130
	76	n-Propylbenzene	50.000	50.547	101.09	70-130
	74	1,2,3-Trichloropro	50.000	50.971	101.94	70-130
	77	2-Chlorotoluene	50.000	49.704	99.41	70-130
	78	1,3,5-Trimethylben	50.000	52.531	105.06	70-130
	79	4-Chlorotoluene	50.000	50.010	100.02	70-130
	80	tert-Butylbenzene	50.000	50.974	101.95	70-130
	81	1,2,4-Trimethylben	50.000	51.075	102.15	70-130
	82	sec-Butylbenzene	50.000	53.345	106.69	70-130
	83	1,3-Dichlorobenzen	50.000	49.950	99.90	70-130
	84	p-Isopropyltoluene	50.000	49.124	98.25	70-130
	85	1,4-Dichlorobenzen	50.000	50.517	101.03	70-130
	87	n-Butylbenzene	50.000	51.156	102.31	70-130
	86	1,2-Dichlorobenzen	50.000	48.174	96.35	70-130
	88	1,2-Dibromo-3-chlo	50.000	48.620	97.24	70-130
	89	1,2,4-Trichloroben	50.000	51.178	102.36	70-130
	90	Hexachlorobutadien	50.000	56.153	112.31	70-130
	91	Napthalene	50.000	52.441	104.88	70-130
	92	1,2,3-Trichloroben	50.000	53.604	107.21	70-130

	SURROGATE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	5	1,2-Dichloroethane	50.000	48.507	97.01	71-127
$	4	Dibromofluorometha	50.000	51.825	103.65	79-120
$	6	Toluene-d8	50.000	52.081	104.16	80-120
$	7	4-Bromofluorobenze	50.000	49.166	98.33	69-126

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Date : 24-MAR-2006 17:21
Client ID: INTRA-LAB CHECK
Sample Info: H10CE1AC,1,3,,LCS & 2ND SOURCE
Purge Volume: 5.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z032806.b/lcsact.d
Lab Smp Id: lcs Client Smp ID: .opc not found
Inj Date : 28-MAR-2006 13:29
Operator : 22980 Inst ID: mz.i
Smp Info : lcs,1,3,,ACETONELCS
Misc Info : Z032806,8260B_LM,ss.sub
Comment : Volatile Organics by GC/MS
Method : /chem/gcms/mz.i/Z032806.b/8260B_LM.m
Meth Date : 28-Mar-2006 13:00 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: ACETONELCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Acetone Only

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.663	5.666	(1.000)	995029	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.932	(1.000)	181149	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.481	(1.000)	227793	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.224	5.228	(0.923)	144042	10.4474	10.447
$ 4 Dibromofluoromethane	113	4.823	4.820	(0.852)	167606	10.5122	10.512
$ 6 Toluene-d8	98	7.457	7.454	(0.835)	803220	10.0915	10.091
$ 7 4-Bromofluorobenzene	95	10.122	10.119	(0.881)	219416	9.55106	9.5511
11 Chloromethane (spcc)	50	1.124	1.121	(0.199)	230481	3.56270	3.5627
12 Vinyl Chloride (ccc)	62	1.191	1.194	(0.210)	5545	0.14149	0.14149
15 Bromomethane	94	1.410	1.407	(0.249)	44816	5.05628	5.0563
20 1,1-Dichloroethene (ccc)	96	2.067	2.058	(0.365)	3043	0.14071	0.14071
23 *Iodomethane	142	2.177	2.174	(0.384)	2645246	102.600	102.60(A)
24 Carbon Disulfide	76	2.231	2.228	(0.394)	7700001	100.868	100.87(A)
22 Acetone	43	2.122	2.125	(0.375)	155799	86.0674	86.067

Spike Level 80ppb
108% Recovery
8% Difference for Ketones

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	30 trans-1,2-Dichloroethene	96	2.791	2.788	(0.493)	6415	0.23499	0.23499
	33 1,1-Dichloroethane (spcc)	63	3.278	3.275	(0.579)	13661	0.21650	0.21650
	34 *Vinyl Acetate	86	3.399	3.403	(0.600)	111189	83.8141	83.814(A)
	35 2,2-Dichloropropane	77	4.087	4.090	(0.722)	4373	0.13640	0.13640
	36 cis 1,2-Dichloroethene	96	4.117	4.108	(0.727)	5835	0.23159	0.23159
M	8 1,2-Dichloroethene (total)	96				12251	0.46658	0.46658
	37 2-Butanone	43	4.172	4.175	(0.737)	333655	88.4963	88.496
	40 Chloroform (ccc)	83	4.616	4.607	(0.815)	8361	0.23256	0.23256
	41 1,1,1-Trichloroethane	97	4.811	4.814	(0.850)	4518	0.14199	0.14198
	43 1,1-Dichloropropene	75	5.048	5.039	(0.891)	4635	0.13594	0.13594
	44 Benzene	78	5.285	5.288	(0.933)	25238	0.25721	0.25721
	45 1,2-Dichloroethane	62	5.328	5.325	(0.941)	3027	0.14571	0.14571
	46 Trichloroethene	130	6.107	6.104	(1.078)	5704	0.20668	0.20668
	47 1,2-Dichloropropane (ccc)	63	6.350	6.341	(1.121)	4701	0.17535	0.17535
	49 Dibromomethane	93	6.478	6.469	(1.144)	669	0.11997	0.11997
	50 Bromodichloromethane	83	6.685	6.682	(1.180)	3314	0.91219	0.91219
	52 cis-1,3-Dichloropropene	75	7.177	7.180	(1.268)	3078	0.14141	0.14141
	53 4-Methyl-2-pentanone	43	7.378	7.375	(1.303)	822490	94.6548	94.655
	54 Toluene (ccc)	91	7.524	7.521	(0.843)	21641	0.20993	0.20992
	55 trans-1,3-Dichloropropene	75	7.780	7.783	(0.871)	1971	0.74492	0.74492
	57 1,1,2-Trichloroethane	97	7.968	7.959	(0.892)	962	0.11503	0.11503
	58 Tetrachloroethene	164	8.096	8.093	(0.907)	3399	0.15900	0.15900
	59 1,3-Dichloropropane	76	8.120	8.117	(0.909)	1930	0.13162	0.13162
	60 2-Hexanone	43	8.254	8.251	(0.924)	540014	96.3321	96.332
	61 Chlorodibromomethane	129	8.345	8.342	(0.935)	982	0.87407	0.87407
	62 1,2-Dibromoethane	107	8.437	8.434	(0.945)	955	0.12753	0.12753
	63 Chlorobenzene (spcc)	112	8.960	8.957	(1.003)	14706	0.25558	0.25558
	65 Ethylbenzene (ccc)	106	9.094	9.091	(1.018)	8373	0.22586	0.22586
	64 1,1,1,2-Tetrachloroethane	131	9.051	9.054	(1.014)	2292	0.47594	0.47594
	66 m&p-Xylene	106	9.215	9.218	(1.032)	20806	0.46420	0.46420
	67 o-Xylene	106	9.605	9.608	(1.076)	10070	0.25438	0.25438
M	9 Xylene (total)	106				30877	0.71859	0.71859
	68 Styrene	104	9.623	9.620	(1.078)	16844	0.30304	0.30304
	69 Bromoform (spcc)	173	9.769	9.778	(1.094)	202	0.87146	0.87146
	70 Isopropylbenzene	105	9.988	9.991	(1.119)	19859	0.17446	0.17446
	72 Bromobenzene	156	10.249	10.253	(1.148)	4615	0.27284	0.27284
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.286	10.289	(1.152)	1411	0.22619	0.22619
	76 n-Propylbenzene	91	10.402	10.405	(0.906)	28271	0.20505	0.20505
	74 1,2,3-Trichloropropane	110	10.310	10.313	(0.898)	306	0.15615	0.15615
	77 2-Chlorotoluene	91	10.475	10.472	(0.912)	21370	0.29225	0.29225
	78 1,3,5-Trimethylbenzene	105	10.608	10.611	(0.924)	23923	0.25787	0.25787
	79 4-Chlorotoluene	91	10.596	10.599	(0.923)	21845	0.28123	0.28123
	80 tert-Butylbenzene	119	10.986	10.989	(0.957)	17269	0.20791	0.20791
	81 1,2,4-Trimethylbenzene	105	11.052	11.049	(0.962)	27037	0.31019	0.31019
	82 sec-Butylbenzene	105	11.278	11.281	(0.982)	26515	0.21655	0.21655
	83 1,3-Dichlorobenzene	146	11.381	11.384	(0.991)	15643	0.39232	0.39232
	84 p-Isopropyltoluene	119	11.497	11.500	(1.001)	25581	0.23811	0.23811

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
85 1,4-Dichlorobenzene	146	11.515	11.518	(1.003)	14900	0.40173	0.40173
87 n-Butylbenzene	91	12.141	12.138	(1.057)	29455	0.30653	0.30653
86 1,2-Dichlorobenzene	146	12.074	12.071	(1.051)	12927	0.43946	0.43946
88 1,2-Dibromo-3-chloropropane	157	13.255	13.252	(1.154)	604	1.29726	1.2972
89 1,2,4-Trichlorobenzene	180	14.289	14.292	(1.244)	27820	1.56033	1.5603
90 Hexachlorobutadiene	225	14.526	14.529	(1.265)	13890	0.83073	0.83073
91 Napthalene	128	14.544	14.541	(1.266)	36719	1.96386	1.9639
92 1,2,3-Trichlorobenzene	180	14.818	14.815	(1.290)	29459	2.50824	2.5082

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: lcsact.d
Lab Smp Id: lcs
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mz.i/Z032806.b/8260B_LM.m
Misc Info: Z032806,8260B_LM,ss.sub

Calibration Date: 28-MAR-2006
Calibration Time: 12:43
Client Smp ID: .opc not found
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1026761	513380	2053522	995029	-3.09
2 Chlorobenzene-d5	189231	94616	378462	181149	-4.27
3 1,4 Dichlorobenze	222795	111398	445590	227793	2.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.66	-0.05
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.03
3 1,4 Dichlorobenze	11.48	10.98	11.98	11.48	0.03

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.

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

STL Knoxville

RECOVERY REPORT

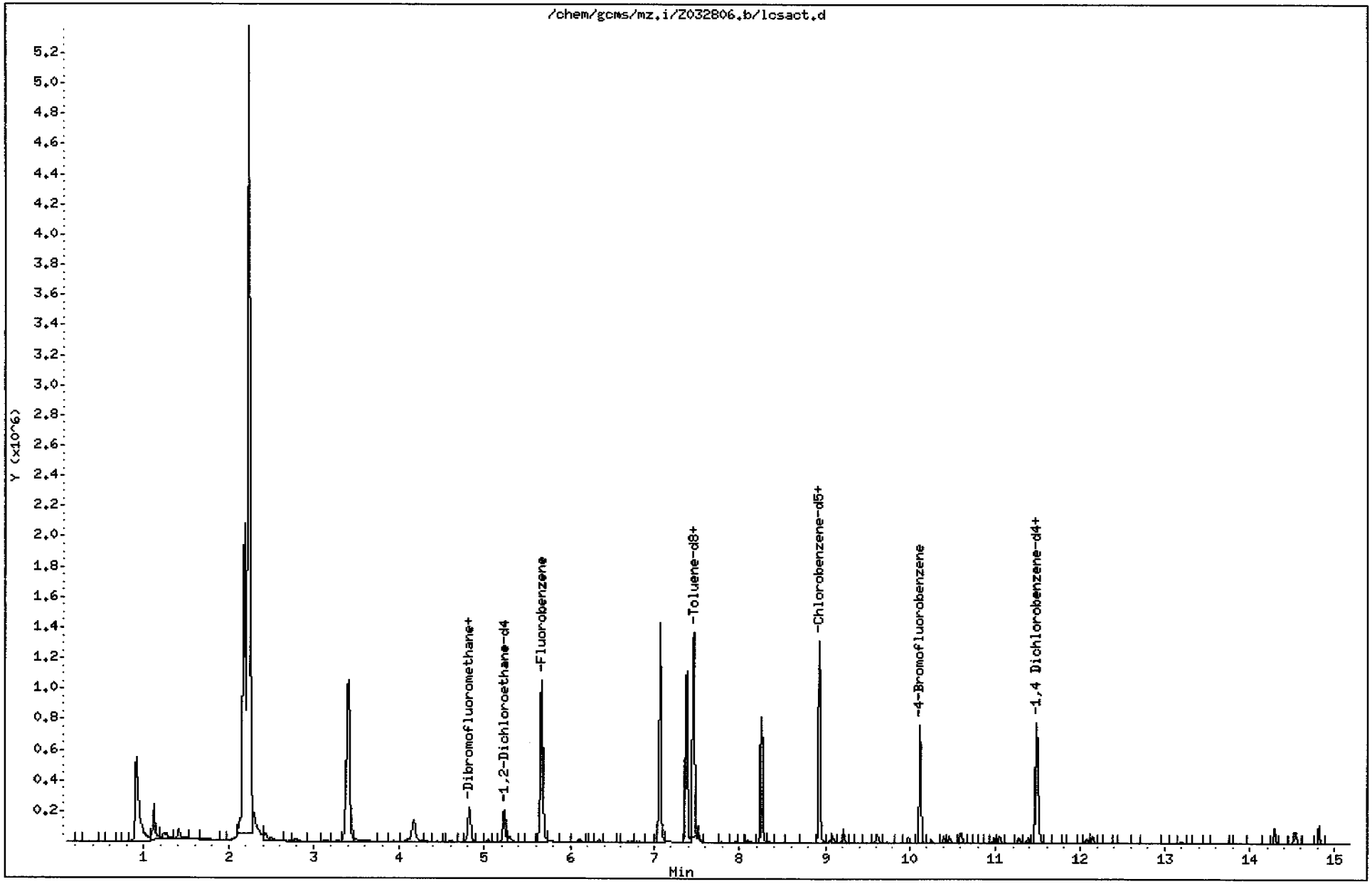
Client Name:
Sample Matrix: LIQUID
Lab Smp Id: lcs
Level: LOW
Data Type: MS DATA
SpikeList File: ssallcmpds.spk
Sublist File: ss.sub
Method File: /chem/gcms/mz.i/Z032806.b/8260B_LM.m
Misc Info: Z032806,8260B_LM,ss.sub

Client SDG: Z032806
Fraction: VOA
Client Smp ID: .opc not found
Operator: 22980
SampleType: ACETONELCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.447	104.47	71-127
$ 4 Dibromofluorometha	10.000	10.512	105.12	79-120
$ 6 Toluene-d8	10.000	10.091	100.91	80-120
$ 7 4-Bromofluorobenze	10.000	9.5511	95.51	69-126

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Date : 28-MAR-2006 13:29
Client ID: .opc not found
Sample Info: lcs,1,3,,ACETONELCS
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



STL Volatile GC/MS Continuing Calibration Review / Narrative Checklist
Method: 8260B - KNOX-MS-0015, Rev. 8

Analysis Date:	04/05/06	CCAL Batch/ Scan Name:	Z041050C	Instrument:	MZ	ICAL Batch/ Scan Name:	Z032406eI	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd ✓
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		☐*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?		✓			✓
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		☐ %D or drift > 50% for the following TCLs: _____	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst: MT	**Date:** 4/5/06	**2nd Level Reviewer :**	**Date:** 4/5/06 4-4/6/06
Comments:		**Comments:**	

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	Z0405060	XXXXXXXXX	XXXXXXXXX	Loop #	—	3
QuantIMS Batch	6095253	—	—	Standard ID	—	VOA 6499
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	—	Water
SOP#	KnoxMS0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	—	4.71 ml
Intitial Cal Batch	Z032406I	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	—	↓
CCAL IS Areas	1078707	188899	220143	Heated?		Y (N)

☑ Date/Time Verified Preventive Maintenance Performed ☑ NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFBZD04	1425	—	—	—	1	—	NA	MT	1ml VOA 6493
CCV	CCVZD043	1442	1	3	1		25mL			5ml VOA 6496 → 50mL
LCS	H2MQQ1AC	1505	2							↓
BIK	BIK1	1529	3							
↓	H2MQQ1AA	1552	4					↓		
C150102	H08572AA	1615	5					<2		
↓	H08582AA	1639	6					↓		
D030104	H2GMA1AA	1702	7					NA		
↓	H2GMD1AA	1725	8					↓		
D030169	H2HC11AA	1749	9					↓		
D030205	H2HPA1AA	1812	10					<2		
D030169	H2G9H1AA	1836	11					NA		
	HAD	1859	12							
	HCR	1922	13							
	G9H1AC	1946	14							
	HAD	2009	15							
↓	HCR	2033	16					↓		
MS	H2HPA1AC	2056	17					<2		5ml VOA 6496 → 50mL
MSD	H2HPA1AD	2120	18			↓		↓		↓
D030114	H2GKV1AA	2143	19			20000		7		~~5ml~~ 25ml → 50mL MT 4/5/06
↓	H2GKR1AA	2206	20			10000		↓		5ml → 50mL RR 1/2000
D030205	H2HQT1AA	2230	21			1		<2		
	QW	2253	22					7		
	QO	2316	23					↓		
	RA	2340	24					4		
	RF	0003	25					7		
↓	RH	0027	26	↓	↓	↓	↓	↓	↓	

MT 4/6/06

Analyst/Date: MT / 4/6/06

Data File: /var/chem/gcms/mz.i/Z040506.b/bfbzd04.d

Date : 05-APR-2006 14:25

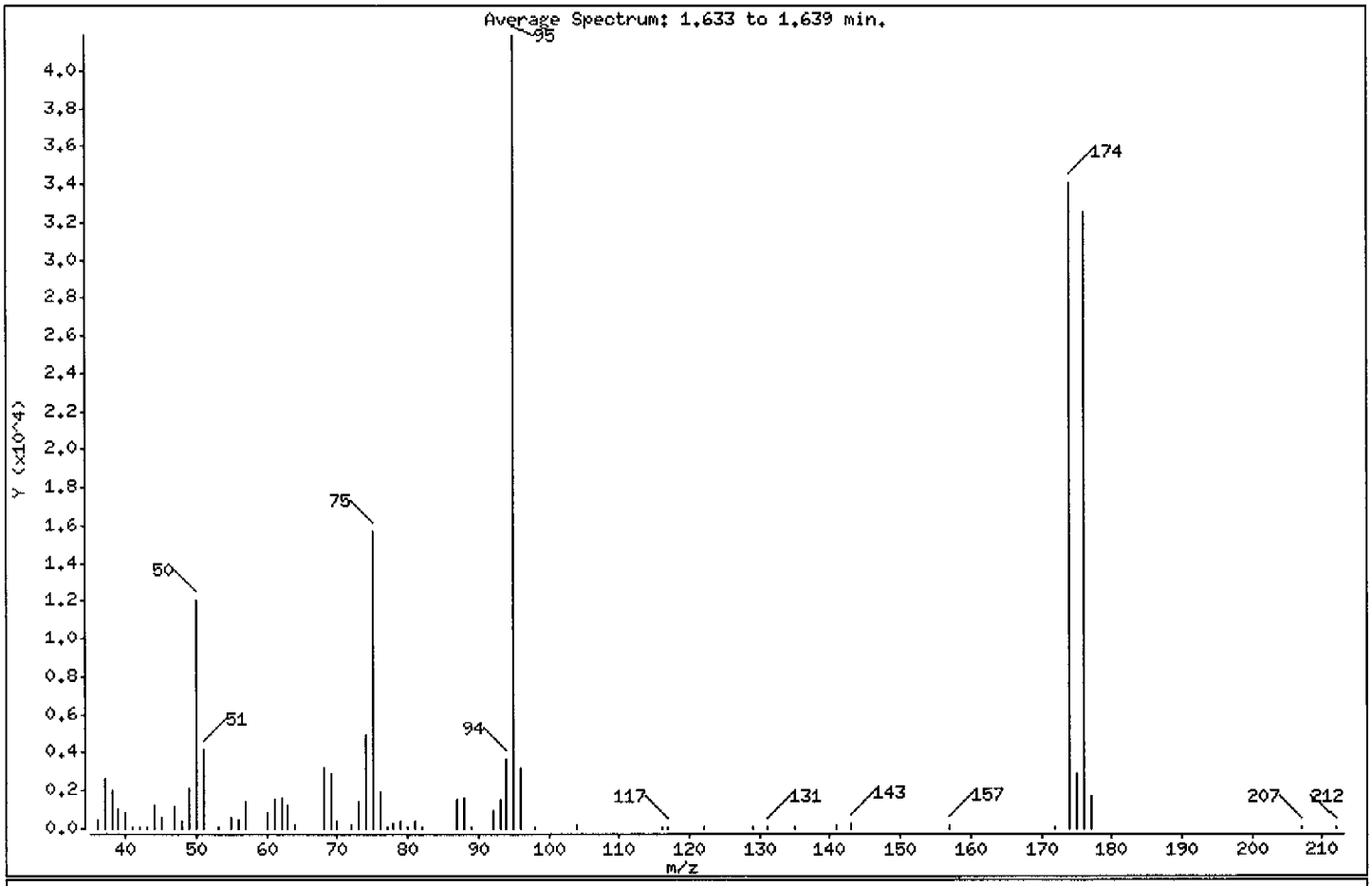
Client ID: Instrument: mz.i

Sample Info: BFBZD04,1,3,,BFB

Operator: 063605

Column phase: J & W 624 Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.77
75	30.00 - 60.00% of mass 95	37.41
96	5.00 - 9.00% of mass 95	7.53
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	81.35
175	5.00 - 9.00% of mass 174	6.99 (8.60)
176	95.00 - 101.00% of mass 174	77.81 (95.65)
177	5.00 - 9.00% of mass 176	4.08 (5.24)

Data File: /var/chem/gcms/mz.i/Z040506.b/bfbzd04.d

Date : 05-APR-2006 14:25

Client ID: Instrument: mz.i

Sample Info: BFBZD04,1,3,,BFB

Operator: 063605

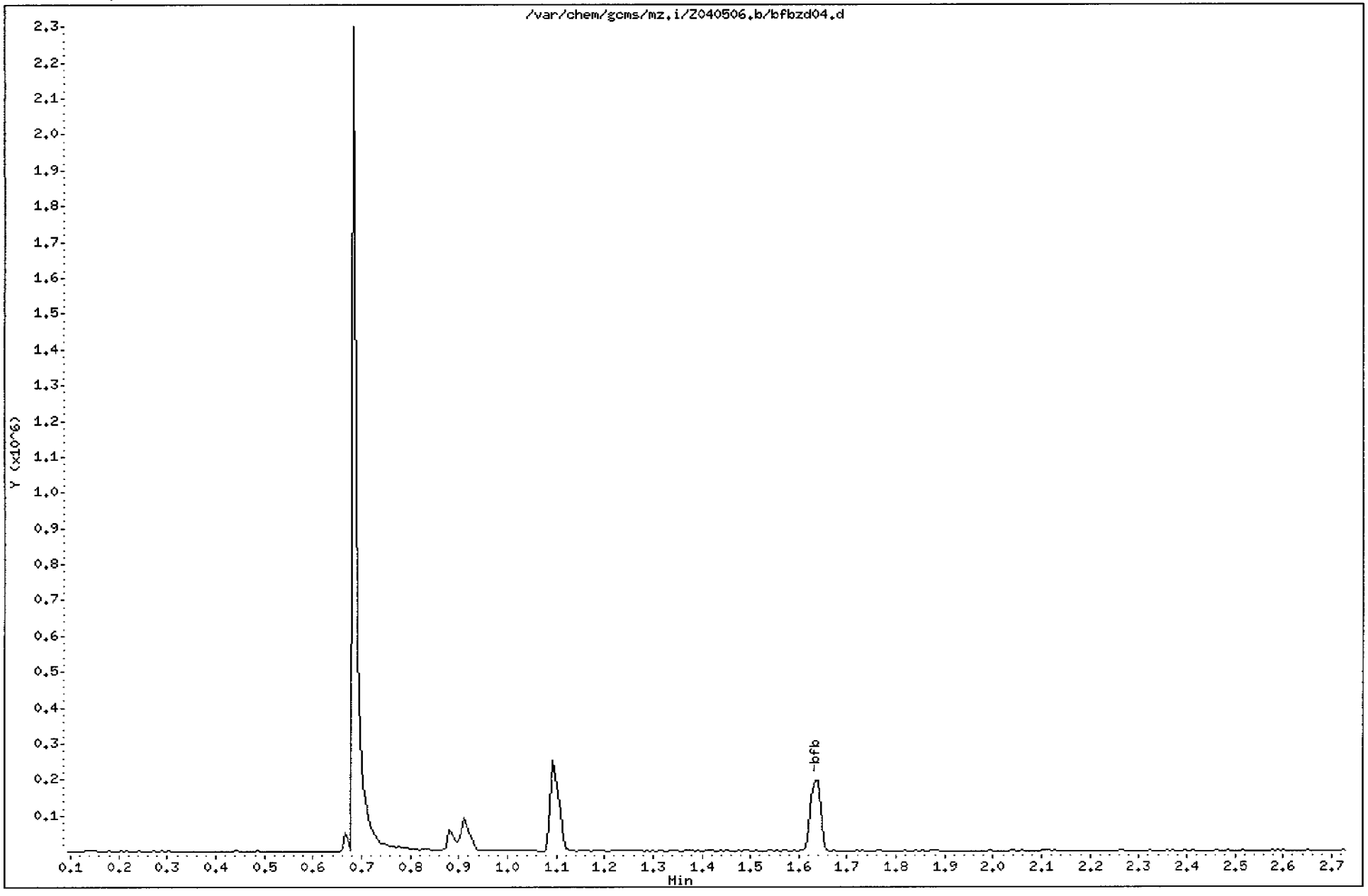
Column phase: J & W 624 Column diameter: 0.18

Data File: bfbzd04.d
Spectrum: Average Spectrum: 1.633 to 1.639 min.
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	492	56.00	473	79.00	404	129.00	87
37.00	2573	57.00	1411	80.00	82	131.00	92
38.00	2022	60.00	890	81.00	415	135.00	88
39.00	1072	61.00	1542	82.00	82	141.00	230
40.00	861	62.00	1684	87.00	1563	143.00	243
41.00	98	63.00	1213	88.00	1612	157.00	155
42.00	143	64.00	193	89.00	76	172.00	136
43.00	107	68.00	3177	92.00	988	174.00	34096
44.00	1207	69.00	2871	93.00	1560	175.00	2931
45.00	617	70.00	354	94.00	3680	176.00	32608
47.00	1182	72.00	202	95.00	41912	177.00	1708
48.00	352	73.00	1451	96.00	3158	207.00	110
49.00	2145	74.00	4882	98.00	94	212.00	107
50.00	12058	75.00	15680	104.00	191		
51.00	4187	76.00	1889	116.00	98		
53.00	90	77.00	85	117.00	137		
55.00	607	78.00	264	122.00	98		

Data File: /var/chem/gcms/mz.i/Z040506.b/bfbzd04.d
Date : 05-APR-2006 14:25
Client ID:
Sample Info: BFBZD04,1,3,,BFB

Instrument: mz.i
Operator: 063605
Column phase: J & W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd043.d
Analysis Type: WATER
Lab Sample ID: CCVZD043
Method: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m

Injection Date: 05-APR-2006 14:42
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Dibromofluoromethane	0.16024	0.16944	0.16944	0.000	-5.74449	50.00000	Averaged
$ 5 1,2-Dichloroethane-d4	0.13856	0.13960	0.13960	0.000	-0.75058	50.00000	Averaged
$ 6 Toluene-d8	4.39383	4.62663	4.62663	0.000	-5.29848	50.00000	Averaged
$ 7 4-Bromofluorobenzene	1.00850	0.96644	0.96644	0.000	4.17051	50.00000	Averaged
M 8 1,2-Dichloroethene (total)	0.26636	0.22854	0.22854	0.000	14.19724	50.00000	Averaged
M 9 Xylene (total)	2.45452	2.22892	2.22892	0.000	9.19138	50.00000	Averaged
10 Dichlorodifluoromethane	0.24410	0.21717	0.21717	0.000	11.03120	50.00000	Averaged
11 Chloromethane (spcc)	10.05828	10.00000	0.59514	0.100	-0.58281	50.00000	Wt Linear
12 Vinyl Chloride (ccc)	0.39386	0.36524	0.36524	0.000	7.26717	19.00000	Averaged
13 *1,3-Butadiene	0.35518	0.31767	0.31767	0.000	10.55902	50.00000	Averaged
15 Bromomethane	7.37810	10.00000	0.06981	0.000	26.21900	50.00000	Wt Linear
16 Chloroethane	0.18650	0.16334	0.16334	0.000	12.41631	50.00000	Averaged
17 *Vinyl Bromide	0.16661	0.15620	0.15620	0.000	6.24775	50.00000	Averaged
18 Trichlorofluoromethane	0.30565	0.26967	0.26967	0.000	11.77141	50.00000	Averaged
19 *2-Chloropropane	0.66154	0.55698	0.55698	0.000	15.80490	50.00000	Averaged
20 1,1-Dichloroethene (ccc)	0.21734	0.20910	0.20910	0.000	3.78978	19.00000	Averaged
21 *Freon 113	0.16920	0.17598	0.17598	0.000	-4.00758	50.00000	Averaged
22 Acetone	35.92004	40.00000	0.02224	0.000	10.19991	50.00000	Quadratic
23 *Iodomethane	9.59276	10.00000	0.23623	0.000	4.07237	50.00000	Wt Linear
24 Carbon Disulfide	0.76719	0.67842	0.67842	0.000	11.57051	50.00000	Averaged
25 *2-propanol	++++	0.00106	0.00106	0.000	++++	50.00000	Averaged
26 *Acetonitrile	0.00445	0.00476	0.00476	0.000	-6.75181	50.00000	Averaged
27 Methylene Chloride	0.16724	0.14752	0.14752	0.000	11.79282	50.00000	Averaged
28 *t-butanol	++++	0.00281	0.00281	0.000	++++	50.00000	Averaged
29 *Acrylonitrile	0.03734	0.03411	0.03411	0.000	8.65411	50.00000	Averaged
30 trans-1,2-Dichloroethene	0.27436	0.24246	0.24246	0.000	11.62620	50.00000	Averaged
31 *MTBE	0.24065	0.19448	0.19448	0.000	19.18769	50.00000	Averaged
32 *Hexane	0.70295	0.65170	0.65170	0.000	7.28969	50.00000	Averaged
33 1,1-Dichloroethane (spcc)	0.63418	0.53615	0.53615	0.100	15.45717	50.00000	Averaged
34 *Vinyl Acetate	0.01333	0.01073	0.01073	0.000	19.50828	50.00000	Averaged
35 2,2-Dichloropropane	0.32221	0.26439	0.26439	0.000	17.94464	50.00000	Averaged
36 cis 1,2-Dichloroethene	0.25325	0.21462	0.21462	0.000	15.25501	50.00000	Averaged
37 2-Butanone	0.03789	0.03371	0.03371	0.000	11.03508	50.00000	Averaged
38 Bromochloromethane	0.06964	0.06468	0.06468	0.000	7.11605	50.00000	Averaged
39 *THF	0.02373	0.02122	0.02122	0.000	10.54946	50.00000	Averaged

NA
MT
4/5/06

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd043.d
Analysis Type: WATER
Lab Sample ID: CCVZD043
Method: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m

Injection Date: 05-APR-2006 14:42
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Chloroform (ccc)	0.36132	0.30474	0.30474	0.000	15.65965	19.00000	Averaged
41 1,1,1-Trichloroethane	0.31980	0.27866	0.27866	0.000	12.86479	50.00000	Averaged
42 Carbon Tetrachloride	7.06978	10.00000	0.17972	0.000	29.30220	50.00000	Wt Linear
43 1,1-Dichloropropene	0.34268	0.29870	0.29870	0.000	12.83351	50.00000	Averaged
44 Benzene	0.98616	0.80987	0.80987	0.000	17.87628	50.00000	Averaged
45 1,2-Dichloroethane	0.20883	0.17992	0.17992	0.000	13.83994	50.00000	Averaged
46 Trichloroethene	0.27740	0.25176	0.25176	0.000	9.24334	50.00000	Averaged
47 1,2-Dichloropropane (ccc)	0.26944	0.23541	0.23541	0.000	12.63082	19.00000	Averaged
48 *Methyl Methacrylate	0.08839	0.07247	0.07247	0.000	18.01817	50.00000	Averaged
49 Dibromomethane	0.05611	0.04802	0.04802	0.000	14.41808	50.00000	Averaged
50 Bromodichloromethane	8.36664	10.00000	0.14280	0.000	16.33363	50.00000	Linear
51 *2-Chloroethylvinylether	0.06115	0.04048	0.04048	0.000	33.80926	50.00000	Averaged
52 cis-1,3-Dichloropropene	0.21878	0.18434	0.18434	0.000	15.74142	50.00000	Averaged
53 4-Methyl-2-pentanone	0.08733	0.07699	0.07699	0.000	11.83374	50.00000	Averaged
54 Toluene (ccc)	5.69105	5.01491	5.01491	0.000	11.88086	19.00000	Averaged
55 trans-1,3-Dichloropropene	7.52669	10.00000	0.62776	0.000	24.73310	50.00000	Linear
56 *Ethyl Methacrylate	0.48617	0.39208	0.39208	0.000	19.35457	50.00000	Averaged
57 1,1,2-Trichloroethane	0.46191	0.39898	0.39898	0.000	13.62296	50.00000	Averaged
58 Tetrachloroethene	1.18042	1.07205	1.07205	0.000	9.18076	50.00000	Averaged
59 1,3-Dichloropropane	0.80964	0.68899	0.68899	0.000	14.90207	50.00000	Averaged
60 2-Hexanone	0.30945	0.29133	0.29133	0.000	5.85664	50.00000	Averaged
61 Chlorodibromomethane	7.69885	10.00000	0.36482	0.000	23.01152	50.00000	Wt Linear
62 1,2-Dibromoethane	0.41364	0.35306	0.35306	0.000	14.64578	50.00000	Averaged
63 Chlorobenzene (spcc)	3.17641	2.85555	2.85555	0.300	10.10133	50.00000	Averaged
64 1,1,1,2-Tetrachloroethane	7.48771	10.00000	0.59233	0.000	25.12290	50.00000	Wt Linear
65 Ethylbenzene (ccc)	2.04670	1.92519	1.92519	0.000	5.93673	19.00000	Averaged
66 m&p-Xylene	2.47429	2.32787	2.32787	0.000	5.91766	50.00000	Averaged
67 o-Xylene	2.18540	2.03102	2.03102	0.000	7.06413	50.00000	Averaged
68 Styrene	3.06833	2.71669	2.71669	0.000	11.46050	50.00000	Averaged
69 Bromoform (spcc)	9.18658	10.00000	0.13915	0.100	8.13419	50.00000	Quadratic
70 Isopropylbenzene	6.28402	5.77298	5.77298	0.000	8.13231	50.00000	Averaged
71 *cis-1,4-dichloro-2-butene	7.17061	10.00000	0.05036	0.000	28.29389	50.00000	Quadratic
72 Bromobenzene	0.93391	0.82165	0.82165	0.000	12.02056	50.00000	Averaged
73 1,1,2,2-Tetrachloroethane(s	0.34456	0.31352	0.31352	0.300	9.01066	50.00000	Averaged
74 1,2,3-Trichloropropane	0.08610	0.07875	0.07875	0.000	8.52773	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd043.d
Analysis Type: WATER
Lab Sample ID: CCVZD043
Method: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m

Injection Date: 05-APR-2006 14:42
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
75 *trans-1,4-dichloro-2-buten	8.28269	10.00000	0.10226	0.000	17.17311	50.00000	Wt Linear
76 n-Propylbenzene	6.05285	5.76048	5.76048	0.000	4.83028	50.00000	Averaged
77 2-Chlorotoluene	3.21004	2.94356	2.94356	0.000	8.30131	50.00000	Averaged
78 1,3,5-Trimethylbenzene	4.07272	3.95191	3.95191	0.000	2.96628	50.00000	Averaged
79 4-Chlorotoluene	3.41012	3.24428	3.24428	0.000	4.86332	50.00000	Averaged
80 tert-Butylbenzene	3.64650	3.53150	3.53150	0.000	3.15374	50.00000	Averaged
81 1,2,4-Trimethylbenzene	3.82646	3.63388	3.63388	0.000	5.03287	50.00000	Averaged
82 sec-Butylbenzene	5.37516	5.18534	5.18534	0.000	3.53144	50.00000	Averaged
83 1,3-Dichlorobenzene	1.75048	1.59177	1.59177	0.000	9.06654	50.00000	Averaged
84 p-Isopropyltoluene	4.71643	4.57444	4.57444	0.000	3.01038	50.00000	Averaged
85 1,4-Dichlorobenzene	1.62825	1.48905	1.48905	0.000	8.54895	50.00000	Averaged
86 1,2-Dichlorobenzene	1.29143	1.21673	1.21673	0.000	5.78412	50.00000	Averaged
87 n-Butylbenzene	4.21842	4.07261	4.07261	0.000	3.45669	50.00000	Averaged
88 1,2-Dibromo-3-chloropropane	6.54634	10.00000	0.02899	0.000	34.53663	50.00000	Wt Linear
89 1,2,4-Trichlorobenzene	0.78272	0.69330	0.69330	0.000	11.42422	50.00000	Averaged
90 Hexachlorobutadiene	0.73404	0.72011	0.72011	0.000	1.89689	50.00000	Averaged
91 Napthalene	0.82082	0.70122	0.70122	0.000	14.57112	50.00000	Averaged
92 1,2,3-Trichlorobenzene	0.51561	0.46521	0.46521	0.000	9.77532	50.00000	Averaged
M 93 *1,4-dichloro-2-butene(tota	0.10257	0.08477	0.08477	0.000	17.35986	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Lab Smp Id: CCVZD043 Client Smp ID: STD10
Inj Date : 05-APR-2006 14:42
Operator : 063605 Inst ID: mz.i
Smp Info : CCVZD043,1,2,3,,STD10
Misc Info : Z040506,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:00 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.667	5.667	(1.000)	1078707	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	188899	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	220143	10.0000	
$ 4 Dibromofluoromethane	113	4.821	4.821	(0.851)	182777	10.0000	10.574
$ 5 1,2-Dichloroethane-d4	65	5.229	5.229	(0.923)	150591	10.0000	10.075
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	873970	10.0000	10.530
$ 7 4-Bromofluorobenzene	95	10.126	10.126	(0.881)	212756	10.0000	9.5829
M 8 1,2-Dichloroethene (total)	96				493056	20.0000	17.312
M 9 Xylene (total)	106				1263127	30.0000	28.110
10 Dichlorodifluoromethane	85	1.013	1.013	(0.179)	234264	10.0000	8.8969
11 Chloromethane (spcc)	50	1.122	1.122	(0.198)	641981	10.0000	10.058
12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	393986	10.0000	9.2733
13 *1,3-Butadiene	39	1.220	1.220	(0.215)	342677	10.0000	8.9441
15 Bromomethane	94	1.414	1.414	(0.250)	75303	10.0000	7.3781

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 Chloroethane	64	1.481	1.481	(0.261)	176199	10.0000	8.7584
17 *Vinyl Bromide	106	1.615	1.615	(0.285)	168498	10.0000	9.3752
18 Trichlorofluoromethane	101	1.670	1.670	(0.295)	290896	10.0000	8.8228
19 *2-Chloropropane	43	1.950	1.950	(0.344)	600820	10.0000	8.4195
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	225560	10.0000	9.6210
21 *Freon 113	151	2.083	2.083	(0.368)	189832	10.0000	10.401
22 Acetone	43	2.126	2.126	(0.375)	95956	40.0000	35.920
23 *Iodomethane	142	2.181	2.181	(0.385)	254822	10.0000	9.5928
24 Carbon Disulfide	76	2.229	2.229	(0.393)	731814	10.0000	8.8429
26 *Acetonitrile	40	2.369	2.369	(0.418)	102601	200.000	213.50
27 Methylene Chloride	84	2.503	2.503	(0.442)	159132	10.0000	8.8207
29 *Acrylonitrile	53	2.759	2.759	(0.487)	735900	200.000	182.69
30 trans-1,2-Dichloroethene	96	2.789	2.789	(0.492)	261547	10.0000	8.8374
31 *MTBE	73	2.820	2.820	(0.498)	209785	10.0000	8.0812
32 *Hexane	57	3.136	3.136	(0.553)	1405996	20.0000	18.542
33 1,1-Dichloroethane (spcc)	63	3.276	3.276	(0.578)	578350	10.0000	8.4543
34 *Vinyl Acetate	86	3.397	3.397	(0.600)	23152	20.0000	16.098
35 2,2-Dichloropropane	77	4.091	4.091	(0.722)	285201	10.0000	8.2055
36 cis 1,2-Dichloroethene	96	4.109	4.109	(0.725)	231508	10.0000	8.4745
37 2-Butanone	43	4.170	4.170	(0.736)	145451	40.0000	35.586
38 Bromochloromethane	128	4.450	4.450	(0.785)	69771	10.0000	9.2884
39 *THF	42	4.529	4.529	(0.799)	91576	40.0000	35.780
40 Chloroform (ccc)	83	4.608	4.608	(0.813)	328720	10.0000	8.4340
41 1,1,1-Trichloroethane	97	4.809	4.809	(0.849)	300590	10.0000	8.7135
42 Carbon Tetrachloride	117	5.028	5.028	(0.887)	193863	10.0000	7.0698
43 1,1-Dichloropropene	75	5.046	5.046	(0.890)	322213	10.0000	8.7166
44 Benzene	78	5.295	5.295	(0.934)	873610	10.0000	8.2124
45 1,2-Dichloroethane	62	5.326	5.326	(0.940)	194085	10.0000	8.6160
46 Trichloroethene	130	6.105	6.105	(1.077)	271577	10.0000	9.0757
47 1,2-Dichloropropane (ccc)	63	6.342	6.342	(1.119)	253935	10.0000	8.7369
48 *Methyl Methacrylate	41	6.573	6.573	(1.160)	78169	10.0000	8.1982
49 Dibromomethane	93	6.470	6.470	(1.142)	51798	10.0000	8.5582
50 Bromodichloromethane	83	6.683	6.683	(1.179)	154039	10.0000	8.3666
51 *2-Chloroethylvinylether	63	7.066	7.066	(1.247)	87325	20.0000	13.238
52 cis-1,3-Dichloropropene	75	7.181	7.181	(1.267)	198851	10.0000	8.4258
53 4-Methyl-2-pentanone	43	7.376	7.376	(1.302)	332214	40.0000	35.266
54 Toluene (ccc)	91	7.522	7.522	(0.842)	947315	10.0000	8.8119
55 trans-1,3-Dichloropropene	75	7.784	7.784	(0.871)	118583	10.0000	7.5267
56 *Ethyl Methacrylate	69	7.930	7.930	(0.888)	74063	10.0000	8.0645
57 1,1,2-Trichloroethane	97	7.960	7.960	(0.891)	75367	10.0000	8.6377
58 Tetrachloroethene	164	8.094	8.094	(0.906)	202510	10.0000	9.0819
59 1,3-Dichloropropane	76	8.118	8.118	(0.909)	130149	10.0000	8.5098
60 2-Hexanone	43	8.252	8.252	(0.924)	220129	40.0000	37.657
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	68913	10.0000	7.6988
62 1,2-Dibromoethane	107	8.435	8.435	(0.944)	66693	10.0000	8.5354
63 Chlorobenzene (spcc)	112	8.958	8.958	(1.003)	539413	10.0000	8.9899
64 1,1,1,2-Tetrachloroethane	131	9.055	9.055	(1.014)	111890	10.0000	7.4877

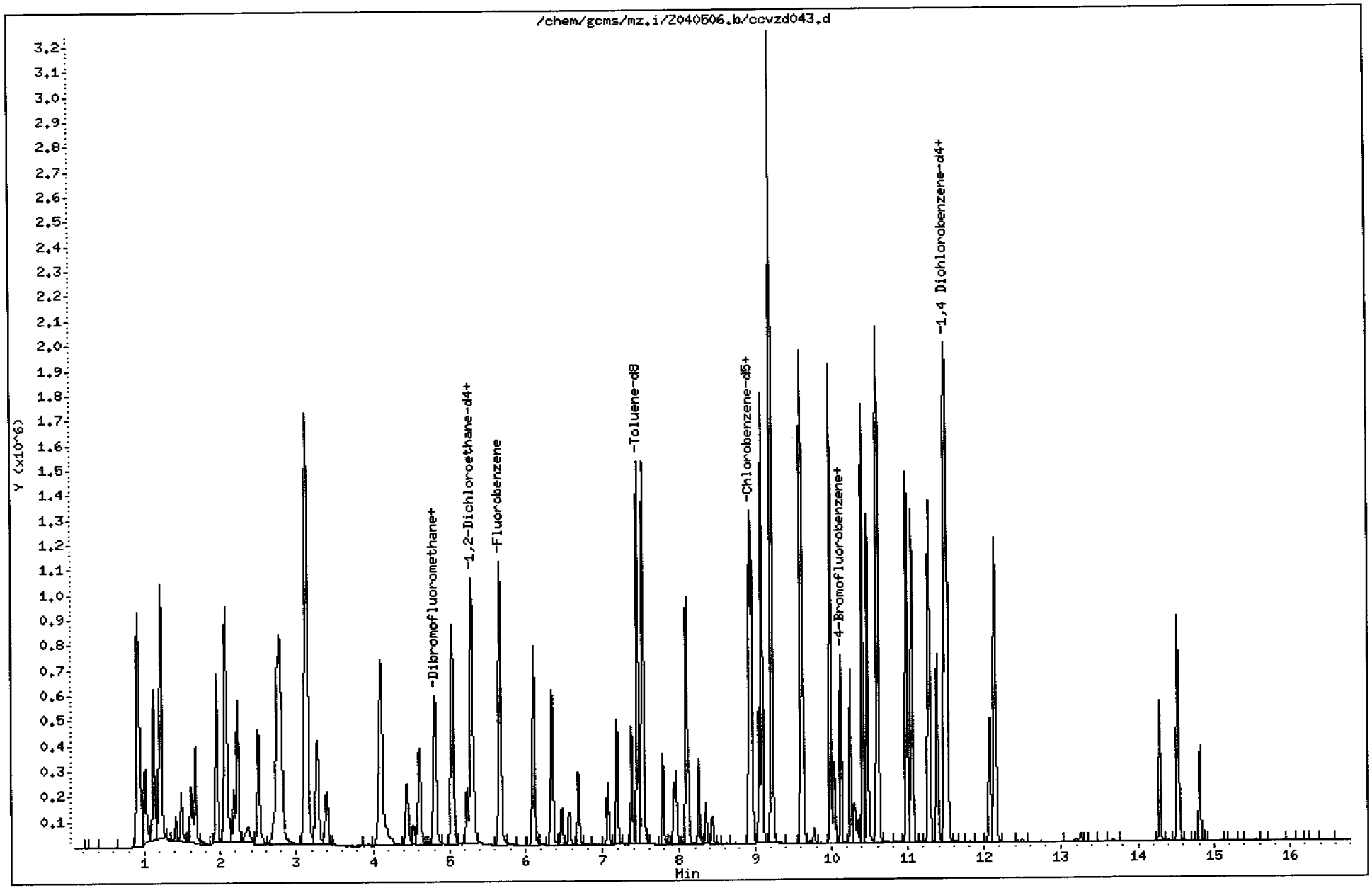
Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
65 Ethylbenzene (ccc)	106	9.092	9.092	(1.018)	363668	10.0000	9.4063
66 m&p-Xylene	106	9.219	9.219	(1.032)	879467	20.0000	18.816
67 o-Xylene	106	9.609	9.609	(1.076)	383659	10.0000	9.2936
68 Styrene	104	9.621	9.621	(1.077)	513181	10.0000	8.8540
69 Bromoform (spcc)	173	9.779	9.779	(1.095)	26286	10.0000	9.1866
70 Isopropylbenzene	105	9.992	9.992	(1.118)	1090515	10.0000	9.1868
71 *cis-1,4-dichloro-2-butene	88	10.059	10.059	(1.126)	9512	10.0000	7.1706
72 Bromobenzene	156	10.254	10.254	(1.148)	155208	10.0000	8.7979
73 1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.290	(1.152)	59223	10.0000	9.0989
74 1,2,3-Trichloropropane	110	10.314	10.314	(0.898)	17337	10.0000	9.1472
75 *trans-1,4-dichloro-2-butene	53	10.345	10.345	(0.900)	22511	10.0000	8.2827
76 n-Propylbenzene	91	10.406	10.406	(0.906)	1268134	10.0000	9.5170
77 2-Chlorotoluene	91	10.473	10.473	(0.912)	648007	10.0000	9.1699
78 1,3,5-Trimethylbenzene	105	10.612	10.612	(0.924)	869988	10.0000	9.7034
79 4-Chlorotoluene	91	10.594	10.594	(0.922)	714207	10.0000	9.5137
80 tert-Butylbenzene	119	10.990	10.990	(0.957)	777437	10.0000	9.6846
81 1,2,4-Trimethylbenzene	105	11.050	11.050	(0.962)	799975	10.0000	9.4967
82 sec-Butylbenzene	105	11.282	11.282	(0.982)	1141521	10.0000	9.6468
83 1,3-Dichlorobenzene	146	11.385	11.385	(0.991)	350418	10.0000	9.0933
84 p-Isopropyltoluene	119	11.501	11.501	(1.001)	1007036	10.0000	9.6990
85 1,4-Dichlorobenzene	146	11.519	11.519	(1.003)	327805	10.0000	9.1451
86 1,2-Dichlorobenzene	146	12.079	12.079	(1.051)	267856	10.0000	9.4216
87 n-Butylbenzene	91	12.145	12.145	(1.057)	896559	10.0000	9.6543
88 1,2-Dibromo-3-chloropropane	157	13.253	13.253	(1.154)	6382	10.0000	6.5463
89 1,2,4-Trichlorobenzene	180	14.293	14.293	(1.244)	152625	10.0000	8.8576
90 Hexachlorobutadiene	225	14.524	14.524	(1.264)	158528	10.0000	9.8103
91 Napthalene	128	14.542	14.542	(1.266)	154368	10.0000	8.5429
92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	102412	10.0000	9.0225
M 93 *1,4-dichloro-2-butene(total)	53				32024	20.0000	15.453

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Date : 05-APR-2006 14:42
Client ID: STD10
Sample Info: CCVZD043,1,2,3,,STD10
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i

Operator: 063605
Column diameter: 0.18



STL Knoxville GC/MS VOST Continuing Calibration Review / Narrative Checklist
Method: VOST Analysis - KNOX-MS-0011, Rev. 5 and KNOX-MS-0015, Rev. 8

Analysis Date:	4/7/06	CCAL Batch/ Scan Name:	Z04D706	Instrument:	MZ	ICAL Batch/ Scan Name:	Z032406I	

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		☐*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?		✓			✓
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		☐ %D or drift > 50% for the following TCLs: _____	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst:	Date: 4/7/06	2nd Level Reviewer :	Date: 4/7/06
Comments:		**Comments:**	

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	2040706	XXXXXXXXX	XXXXXXXXX	Loop #	2	(A)
QuantIMS Batch	6096035			Standard ID	VOA6500	VOA6499
Method	V051	XXXXXXXXX	XXXXXXXXX	Matrix	25mL V051	25mL
SOP#	KNOX.MS-0011	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	4.7mL	4.7mL
Intitial Cal Batch	20324061	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	5.0mL VOA6493	↓
CCAL IS Areas	952561	1641101	2041390	Heated?		Y N

☒ Date/Time Verified Preventive Maintenance Performed ☒ NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	B5FB7D07	0721	—	—	—	1	1.0mL	NA		1.0mL VOA6493
CCV	CCV2D073	0735	1	(A)	1		25mL			5.0mL VOA6496 → 50mL
LCS	A2N0441AC	0821	1	1						2.5mL VOA6496
LCSD	↓ 1AD	0847	2							↓ ↓
BLK	BLK1	0921	3							
↓	1/2N0441AA	0947	4							
A6D 030169	1/2R1441AA	1024	5							
	1/2HC41HA	1047	6							
	C2	1110	7							
	C0	1134	8							
	CX	1158	9							
	CW	1222	10							
	CV	1245	11							
	CA	1309	12							
	A7	1333	13							
	1/2G9L1AA	1357	14							
	9J	1421	15							
	1/2HC61HA	1446	16							
	CN	1510	17							
	CL	1533	18							
	HA	1557	19							
	1/2G981HA	1620	20							
	9I	1644	21							
	9G	1708	22							
	9D	1731	23							
									MT	4/7/06
	1/2G891HA	1754	24							

MT 4/7/06

Analyst/Date: MT 4/7/06 / _____

MS033R6.doc, 2/24/05

Data File: /var/chem/gcms/mz.i/Z040706.b/bfbzd07.d

Date : 07-APR-2006 07:21

Client ID:

Instrument: mz.i

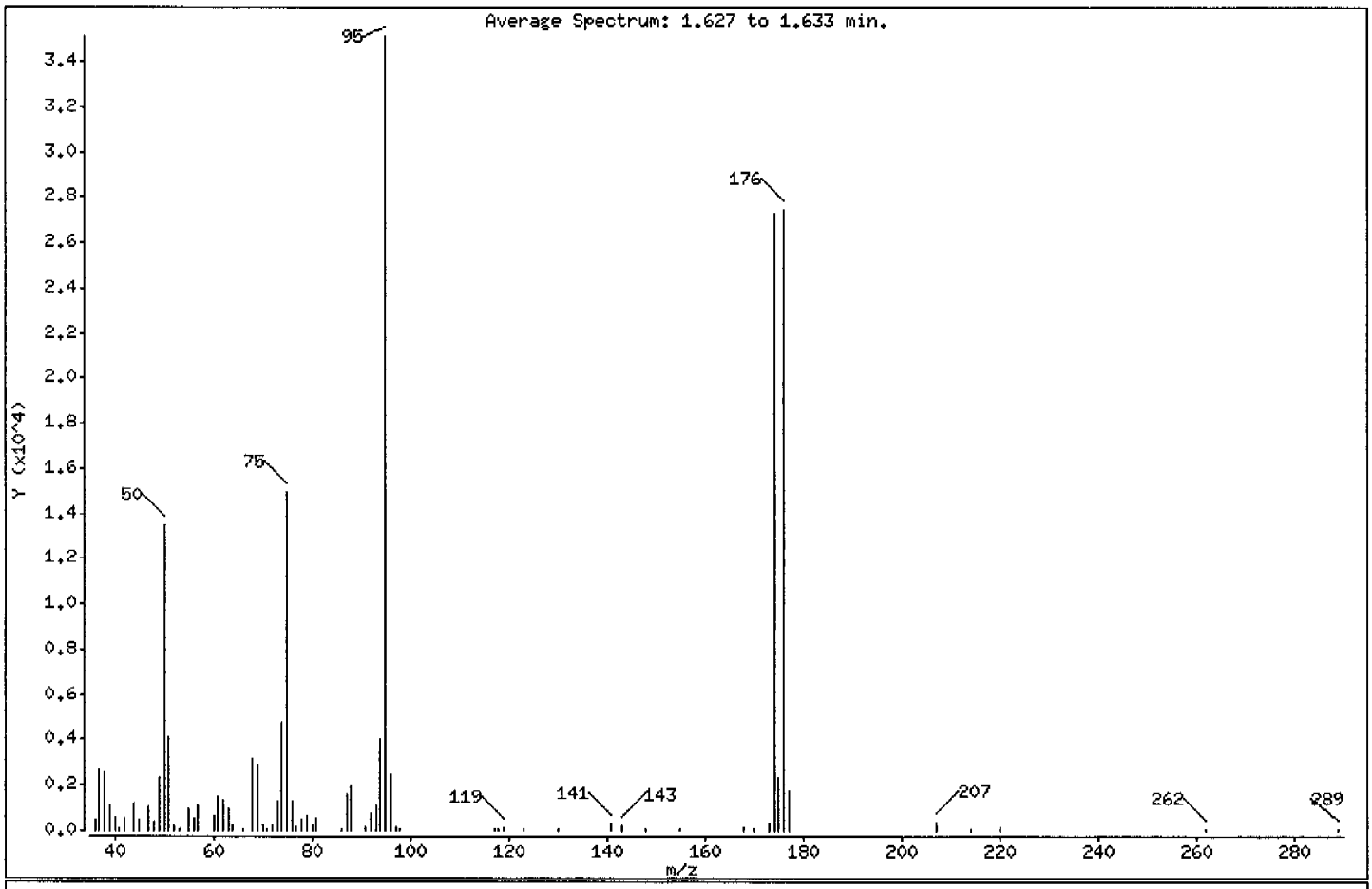
Sample Info: BFBZD07,1,3,,BFB

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	38.40
75	30.00 - 60.00% of mass 95	42.45
96	5.00 - 9.00% of mass 95	7.22
173	Less than 2.00% of mass 174	0.99 (1.27)
174	50.00 - 120.00% of mass 95	77.63
175	5.00 - 9.00% of mass 174	6.63 (8.54)
176	95.00 - 101.00% of mass 174	78.24 (100.78)
177	5.00 - 9.00% of mass 176	4.96 (6.34)

Data File: /var/chem/gcms/mz.i/Z040706.b/bfbzd07.d

Date : 07-APR-2006 07:21

Client ID:

Instrument: mz.i

Sample Info: BFBZD07,1,3,,BFB

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

Data File: bfbzd07.d
Spectrum: Average Spectrum: 1.627 to 1.633 min.
Location of Maximum: 95.00
Number of points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	487	57.00	1120	79.00	614	130.00	89
37.00	2643	60.00	628	80.00	215	141.00	287
38.00	2590	61.00	1499	81.00	573	143.00	207
39.00	1159	62.00	1383	86.00	94	148.00	102
40.00	534	63.00	986	87.00	1639	155.00	94
41.00	90	64.00	250	88.00	2036	168.00	143
42.00	579	66.00	106	91.00	123	170.00	100
44.00	1216	68.00	3125	92.00	823	173.00	347
45.00	517	69.00	2875	93.00	1169	174.00	27280
47.00	1077	70.00	278	94.00	4072	175.00	2329
48.00	432	71.00	83	95.00	35136	176.00	27488
49.00	2351	72.00	265	96.00	2537	177.00	1742
50.00	13495	73.00	1305	97.00	130	207.00	385
51.00	4134	74.00	4726	98.00	110	214.00	113
52.00	238	75.00	14917	117.00	108	220.00	123
53.00	100	76.00	1290	118.00	99	262.00	79
55.00	939	77.00	142	119.00	136	289.00	85
56.00	537	78.00	453	123.00	108		

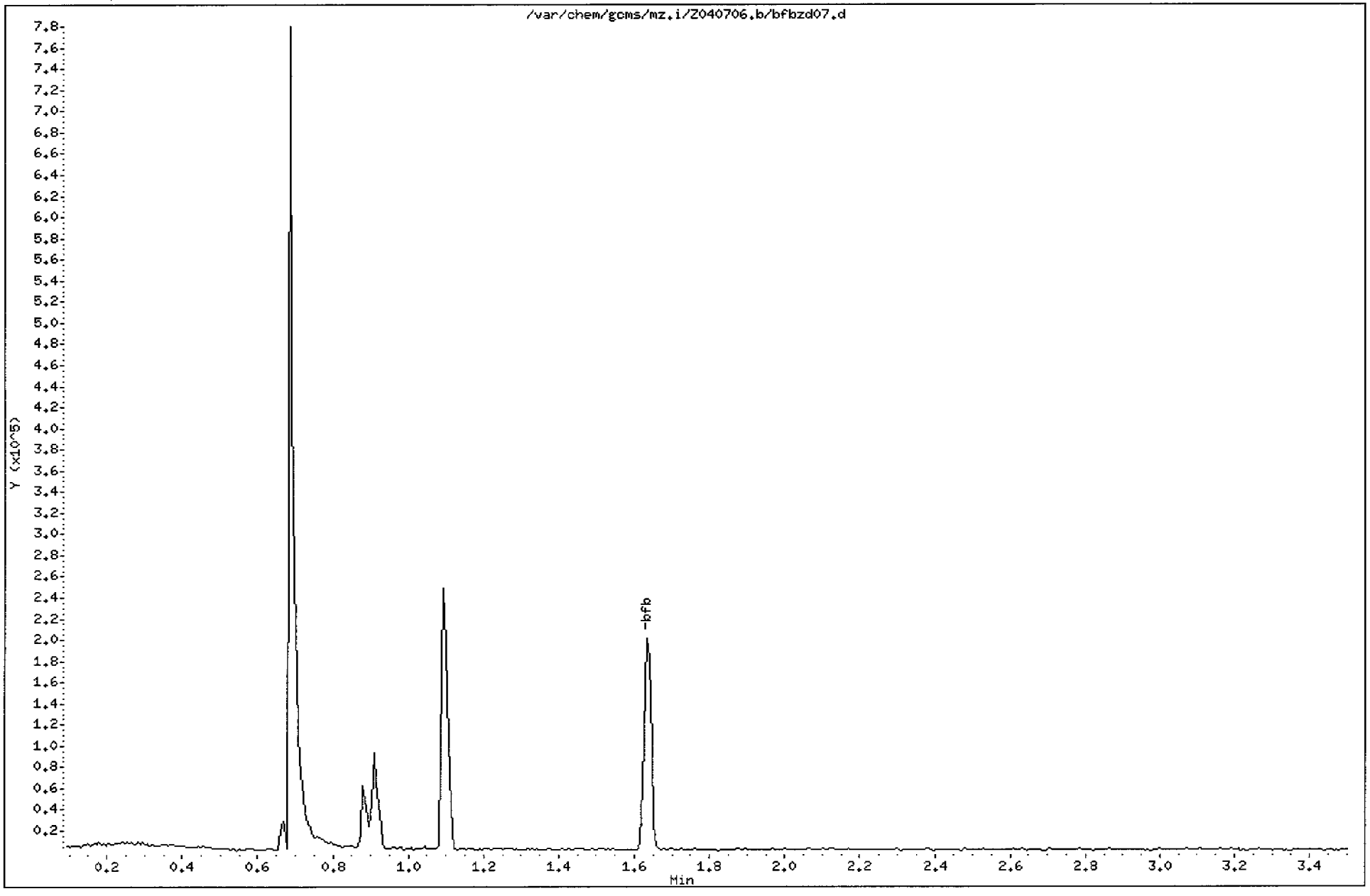
Data File: /var/chem/gcms/mz.i/Z040706.b/bfbzd07.d
Date : 07-APR-2006 07:21
Client ID:
Sample Info: BFBZD07,1,3,,BFB

Instrument: mz.i

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Report Date: 07-Apr-2006 07:52

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd073.d
Analysis Type: WATER
Lab Sample ID: CCVZD073
Method: /chem/gcms/mz.i/Z040706.b/8260B_LM.m

Injection Date: 07-APR-2006 07:35
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Dibromofluoromethane	0.16024	0.16851	0.16851	0.000	-5.16464	50.00000	Averaged
$ 5 1,2-Dichloroethane-d4	0.13856	0.14262	0.14262	0.000	-2.92642	50.00000	Averaged
$ 6 Toluene-d8	4.39383	4.60254	4.60254	0.000	-4.75022	50.00000	Averaged
$ 7 4-Bromofluorobenzene	1.00850	0.94003	0.94003	0.000	6.78913	50.00000	Averaged
M 8 1,2-Dichloroethene (total)	0.26636	0.24870	0.24870	0.000	6.62988	50.00000	Averaged
M 9 Xylene (total)	2.45452	2.52877	2.52877	0.000	-3.02473	50.00000	Averaged
10 Dichlorodifluoromethane	0.24410	0.25069	0.25069	0.000	-2.69993	50.00000	Averaged
11 Chloromethane (spcc)	10.30886	10.00000	0.60916	0.100	-3.08863	50.00000	Wt Linear
12 Vinyl Chloride (ccc)	0.39386	0.45009	0.45009	0.000	-14.27553	19.00000	Averaged
13 *1,3-Butadiene	0.35518	0.37783	0.37783	0.000	-6.37775	50.00000	Averaged
15 Bromomethane	12.80031	10.00000	0.12765	0.000	-28.00313	50.00000	Wt Linear
16 Chloroethane	0.18650	0.20923	0.20923	0.000	-12.18743	50.00000	Averaged
17 *Vinyl Bromide	0.16661	0.18062	0.18062	0.000	-8.40326	50.00000	Averaged
18 Trichlorofluoromethane	0.30565	0.33505	0.33505	0.000	-9.61826	50.00000	Averaged
19 *2-Chloropropane	0.66154	0.62974	0.62974	0.000	4.80718	50.00000	Averaged
20 1,1-Dichloroethene (ccc)	0.21734	0.23771	0.23771	0.000	-9.37347	19.00000	Averaged
21 *Freon 113	0.16920	0.20373	0.20373	0.000	-20.40683	50.00000	Averaged
22 Acetone	39.20699	40.00000	0.02362	0.000	1.98252	50.00000	Quadratic
23 *Iodomethane	11.10925	10.00000	0.27572	0.000	-11.09251	50.00000	Wt Linear
24 Carbon Disulfide	0.76719	0.75312	0.75312	0.000	1.83374	50.00000	Averaged
25 *2-propanol	++++	0.00290	0.00290	0.000	++++	50.00000	Averaged <-NA
26 *Acetonitrile	0.00445	0.00419	0.00419	0.000	5.99188	50.00000	Averaged
27 Methylene Chloride	0.16724	0.14568	0.14568	0.000	12.89133	50.00000	Averaged
28 *t-butanol	++++	0.00295	0.00295	0.000	++++	50.00000	Averaged <-NA
29 *Acrylonitrile	0.03734	0.03799	0.03799	0.000	-1.73376	50.00000	Averaged
30 trans-1,2-Dichloroethene	0.27436	0.26031	0.26031	0.000	5.12305	50.00000	Averaged
31 *MTBE	0.24065	0.22204	0.22204	0.000	7.73585	50.00000	Averaged
32 *Hexane	0.70295	0.77077	0.77077	0.000	-9.64899	50.00000	Averaged
33 1,1-Dichloroethane (spcc)	0.63418	0.62611	0.62611	0.100	1.27171	50.00000	Averaged
34 *Vinyl Acetate	0.01333	0.01073	0.01073	0.000	19.50753	50.00000	Averaged
35 2,2-Dichloropropane	0.32221	0.27382	0.27382	0.000	15.01872	50.00000	Averaged
36 cis 1,2-Dichloroethene	0.25325	0.23709	0.23709	0.000	6.38235	50.00000	Averaged
37 2-Butanone	0.03789	0.03703	0.03703	0.000	2.26019	50.00000	Averaged
38 Bromochloromethane	0.06964	0.06664	0.06664	0.000	4.30241	50.00000	Averaged
39 *THF	0.02373	0.02402	0.02402	0.000	-1.24109	50.00000	Averaged

l 4/7/06

Data File: /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Report Date: 07-Apr-2006 07:52

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd073.d
Analysis Type: WATER
Lab Sample ID: CCVZD073
Method: /chem/gcms/mz.i/Z040706.b/8260B_LM.m

Injection Date: 07-APR-2006 07:35
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Chloroform (ccc)	0.36132	0.34891	0.34891	0.000	3.43294	19.00000	Averaged
41 1,1,1-Trichloroethane	0.31980	0.31948	0.31948	0.000	0.10051	50.00000	Averaged
42 Carbon Tetrachloride	8.91487	10.00000	0.22899	0.000	10.85126	50.00000	Wt Linear
43 1,1-Dichloropropene	0.34268	0.33842	0.33842	0.000	1.24372	50.00000	Averaged
44 Benzene	0.98616	0.89590	0.89590	0.000	9.15272	50.00000	Averaged
45 1,2-Dichloroethane	0.20883	0.20749	0.20749	0.000	0.63722	50.00000	Averaged
46 Trichloroethene	0.27740	0.27909	0.27909	0.000	-0.60885	50.00000	Averaged
47 1,2-Dichloropropane (ccc)	0.26944	0.26870	0.26870	0.000	0.27470	19.00000	Averaged
48 *Methyl Methacrylate	0.08839	0.08717	0.08717	0.000	1.38690	50.00000	Averaged
49 Dibromomethane	0.05611	0.05426	0.05426	0.000	3.29501	50.00000	Averaged
50 Bromodichloromethane	9.63386	10.00000	0.16651	0.000	3.66138	50.00000	Linear
51 *2-Chloroethylvinylether	0.06115	0.03119	0.03119	0.000	49.00076	50.00000	Averaged
52 cis-1,3-Dichloropropene	0.21878	0.20122	0.20122	0.000	8.02474	50.00000	Averaged
53 4-Methyl-2-pentanone	0.08733	0.08904	0.08904	0.000	-1.95741	50.00000	Averaged
54 Toluene (ccc)	5.69105	5.69438	5.69438	0.000	-0.05848	19.00000	Averaged
55 trans-1,3-Dichloropropene	8.60123	10.00000	0.72550	0.000	13.98772	50.00000	Linear
56 *Ethyl Methacrylate	0.48617	0.45798	0.45798	0.000	5.79957	50.00000	Averaged
57 1,1,2-Trichloroethane	0.46191	0.46124	0.46124	0.000	0.14357	50.00000	Averaged
58 Tetrachloroethene	1.18042	1.22202	1.22202	0.000	-3.52428	50.00000	Averaged
59 1,3-Dichloropropane	0.80964	0.76908	0.76908	0.000	5.01014	50.00000	Averaged
60 2-Hexanone	0.30945	0.33433	0.33433	0.000	-8.03762	50.00000	Averaged
61 Chlorodibromomethane	9.56174	10.00000	0.46292	0.000	4.38255	50.00000	Wt Linear
62 1,2-Dibromoethane	0.41364	0.40412	0.40412	0.000	2.30312	50.00000	Averaged
63 Chlorobenzene (spcc)	3.17641	3.22047	3.22047	0.300	-1.38705	50.00000	Averaged
64 1,1,1,2-Tetrachloroethane	9.04288	10.00000	0.72089	0.000	9.57117	50.00000	Wt Linear
65 Ethylbenzene (ccc)	2.04670	2.13400	2.13400	0.000	-4.26557	19.00000	Averaged
66 m&p-Xylene	2.47429	2.64745	2.64745	0.000	-6.99842	50.00000	Averaged
67 o-Xylene	2.18540	2.29140	2.29140	0.000	-4.85041	50.00000	Averaged
68 Styrene	3.06833	3.14639	3.14639	0.000	-2.54390	50.00000	Averaged
69 Bromoform (spcc)	10.91211	10.00000	0.16927	0.100	-9.12105	50.00000	Quadratic
70 Isopropylbenzene	6.28402	6.60931	6.60931	0.000	-5.17645	50.00000	Averaged
71 *cis-1,4-dichloro-2-butene	7.95864	10.00000	0.05750	0.000	20.41360	50.00000	Quadratic
72 Bromobenzene	0.93391	0.96944	0.96944	0.000	-3.80438	50.00000	Averaged
73 1,1,2,2-Tetrachloroethane(s	0.34456	0.35327	0.35327	0.300	-2.52753	50.00000	Averaged
74 1,2,3-Trichloropropane	0.08610	0.08049	0.08049	0.000	6.50761	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Report Date: 07-Apr-2006 07:52

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd073.d
Analysis Type: WATER
Lab Sample ID: CCVZD073
Method: /chem/gcms/mz.i/Z040706.b/8260B_LM.m

Injection Date: 07-APR-2006 07:35
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
75 *trans-1,4-dichloro-2-buten	9.75901	10.00000	0.12160	0.000	2.40990	50.00000	Wt Linear
76 n-Propylbenzene	6.05285	6.15087	6.15087	0.000	-1.61948	50.00000	Averaged
77 2-Chlorotoluene	3.21004	3.11477	3.11477	0.000	2.96774	50.00000	Averaged
78 1,3,5-Trimethylbenzene	4.07272	4.23634	4.23634	0.000	-4.01770	50.00000	Averaged
79 4-Chlorotoluene	3.41012	3.41496	3.41496	0.000	-0.14184	50.00000	Averaged
80 tert-Butylbenzene	3.64650	3.78993	3.78993	0.000	-3.93351	50.00000	Averaged
81 1,2,4-Trimethylbenzene	3.82646	3.78950	3.78950	0.000	0.96585	50.00000	Averaged
82 sec-Butylbenzene	5.37516	5.48927	5.48927	0.000	-2.12290	50.00000	Averaged
83 1,3-Dichlorobenzene	1.75048	1.75743	1.75743	0.000	-0.39751	50.00000	Averaged
84 p-Isopropyltoluene	4.71643	4.81595	4.81595	0.000	-2.11012	50.00000	Averaged
85 1,4-Dichlorobenzene	1.62825	1.63581	1.63581	0.000	-0.46432	50.00000	Averaged
86 1,2-Dichlorobenzene	1.29143	1.27068	1.27068	0.000	1.60702	50.00000	Averaged
87 n-Butylbenzene	4.21842	4.28017	4.28017	0.000	-1.46362	50.00000	Averaged
88 1,2-Dibromo-3-chloropropane	8.94091	10.00000	0.04101	0.000	10.59094	50.00000	Wt Linear
89 1,2,4-Trichlorobenzene	0.78272	0.79424	0.79424	0.000	-1.47193	50.00000	Averaged
90 Hexachlorobutadiene	0.73404	0.83269	0.83269	0.000	-13.43886	50.00000	Averaged
91 Napthalene	0.82082	0.76838	0.76838	0.000	6.38895	50.00000	Averaged
92 1,2,3-Trichlorobenzene	0.51561	0.52506	0.52506	0.000	-1.83243	50.00000	Averaged
M 93 *1,4-dichloro-2-butene(tota	0.10257	0.10448	0.10448	0.000	-1.85909	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Report Date: 07-Apr-2006 07:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Lab Smp Id: CCVZD073 Client Smp ID: STD10
Inj Date : 07-APR-2006 07:35
Operator : 22980 Inst ID: mz.i
Smp Info : CCVZD073,1,2,3,,STD10
Misc Info : Z040706,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 07:52 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	5.676	5.676	(1.000)	952581	10.0000	
* 2 Chlorobenzene-d5	119	8.937	8.937	(1.000)	164101	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.492	11.492	(1.000)	204390	10.0000	
$ 4 Dibromofluoromethane	113	4.831	4.831	(0.851)	160521	10.0000	10.516
$ 5 1,2-Dichloroethane-d4	65	5.238	5.238	(0.923)	135855	10.0000	10.293
$ 6 Toluene d8	98	7.465	7.465	(0.835)	755282	10.0000	10.475
$ 7 4-Bromofluorobenzene	95	10.129	10.129	(0.881)	192134	10.0000	9.3211
M 8 1,2-Dichloroethene (total)	96				473807	20.0000	18.849
M 9 Xylene (total)	106				1244919	30.0000	31.885
10 Dichlorodifluoromethane	85	1.016	1.016	(0.179)	238801	10.0000	10.270
11 Chloromethane (spcc)	50	1.126	1.126	(0.198)	580277	10.0000	10.309
12 Vinyl Chloride (ccc)	62	1.199	1.199	(0.211)	428746	10.0000	11.428
13 *1,3-Butadiene	39	1.223	1.223	(0.215)	359913	10.0000	10.638
15 Bromomethane	94	1.418	1.418	(0.250)	121599	10.0000	12.800

Data File: /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Report Date: 07-Apr-2006 07:52

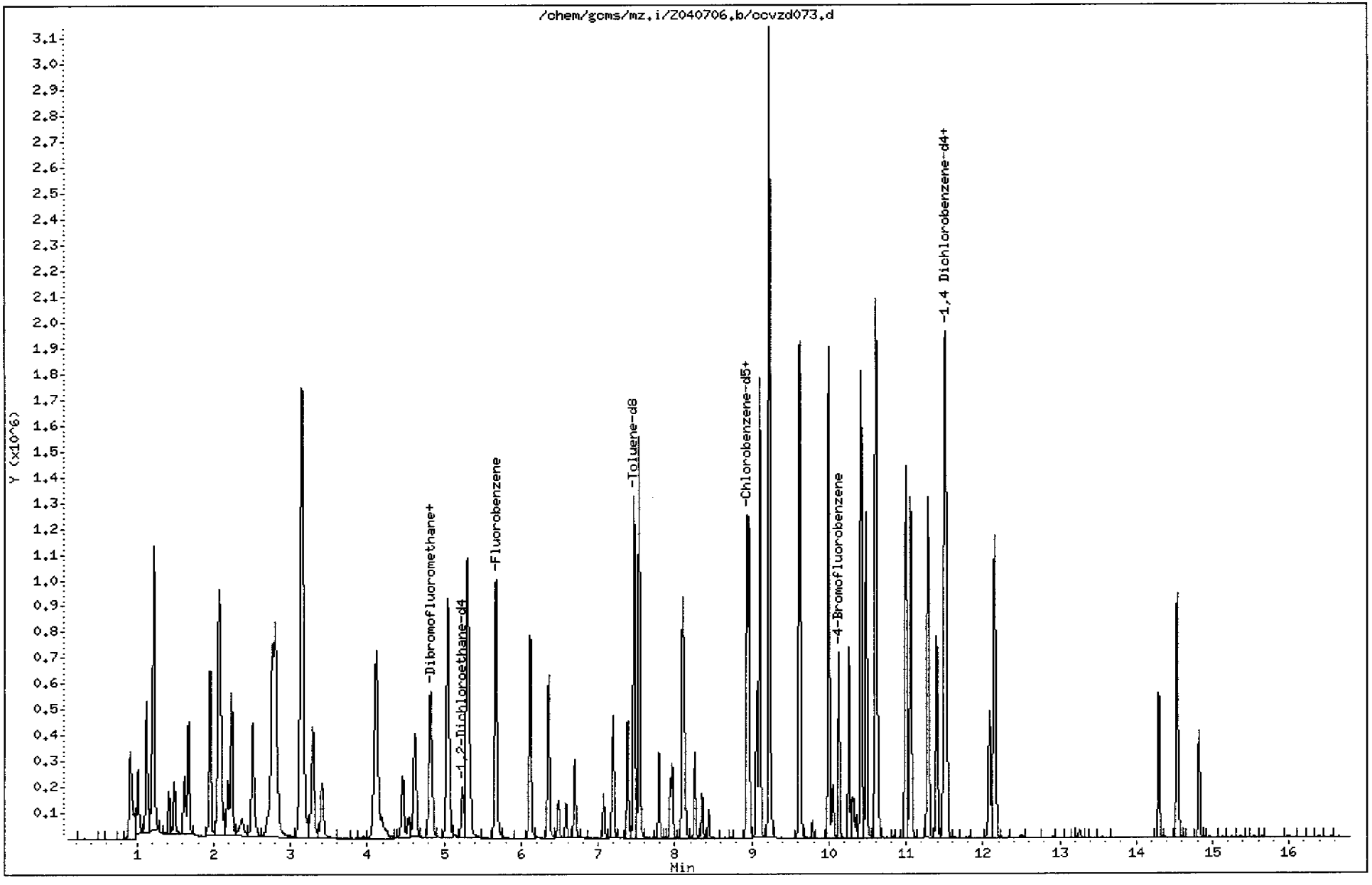
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 Chloroethane	64	1.485	1.485	(0.262)	199308	10.0000	11.219
17 *Vinyl Bromide	106	1.618	1.618	(0.285)	172050	10.0000	10.840
18 Trichlorofluoromethane	101	1.673	1.673	(0.295)	319161	10.0000	10.962
19 *2-Chloropropane	43	1.953	1.953	(0.344)	599874	10.0000	9.5193
20 1,1-Dichloroethene (ccc)	96	2.069	2.069	(0.364)	226440	10.0000	10.937
21 *Freon 113	151	2.087	2.087	(0.368)	194069	10.0000	12.041
22 Acetone	43	2.123	2.123	(0.374)	90016	40.0000	39.207
23 *Iodomethane	142	2.184	2.184	(0.385)	262649	10.0000	11.109
24 Carbon Disulfide	76	2.239	2.239	(0.394)	717405	10.0000	9.8166
26 *Acetonitrile	40	2.367	2.367	(0.417)	79788	200.000	188.02
27 Methylene Chloride	84	2.513	2.513	(0.443)	138776	10.0000	8.7109
29 *Acrylonitrile	53	2.768	2.768	(0.488)	723759	200.000	203.47
30 trans-1,2-Dichloroethene	96	2.799	2.799	(0.493)	247962	10.0000	9.4877
31 *MTBE	73	2.829	2.829	(0.498)	211509	10.0000	9.2264
32 *Hexane	57	3.145	3.145	(0.554)	1468451	20.0000	21.930
33 1,1-Dichloroethane (spcc)	63	3.285	3.285	(0.579)	596423	10.0000	9.8728
34 *Vinyl Acetate	86	3.407	3.407	(0.600)	20445	20.0000	16.098
35 2,2-Dichloropropane	77	4.107	4.107	(0.723)	260835	10.0000	8.4981
36 cis 1,2-Dichloroethene	96	4.125	4.125	(0.727)	225844	10.0000	9.3618
37 2-Butanone	43	4.186	4.186	(0.737)	141114	40.0000	39.096
38 Bromochloromethane	128	4.466	4.466	(0.787)	63480	10.0000	9.5698
39 *THF	42	4.532	4.532	(0.798)	91528	40.0000	40.496
40 Chloroform (ccc)	83	4.618	4.618	(0.814)	332367	10.0000	9.6567
41 1,1,1-Trichloroethane	97	4.818	4.818	(0.849)	304329	10.0000	9.9899
42 Carbon Tetrachloride	117	5.043	5.043	(0.889)	218129	10.0000	8.9149
43 1,1-Dichloropropene	75	5.056	5.056	(0.891)	322372	10.0000	9.8756
44 Benzene	78	5.305	5.305	(0.935)	853414	10.0000	9.0847
45 1,2-Dichloroethane	62	5.335	5.335	(0.940)	197655	10.0000	9.9363
46 Trichloroethene	130	6.114	6.114	(1.077)	265857	10.0000	10.061
47 1,2-Dichloropropane (ccc)	63	6.351	6.351	(1.119)	255958	10.0000	9.9725
48 *Methyl Methacrylate	41	6.577	6.577	(1.159)	83033	10.0000	9.8613
49 Dibromomethane	93	6.479	6.479	(1.141)	51687	10.0000	9.6705
50 Bromodichloromethane	83	6.692	6.692	(1.179)	158613	10.0000	9.6339
51 *2-Chloroethylvinylether	63	7.069	7.069	(1.245)	59416	20.0000	10.200
52 cis-1,3-Dichloropropene	75	7.191	7.191	(1.267)	191683	10.0000	9.1975
53 4-Methyl-2-pentanone	43	7.386	7.386	(1.301)	339260	40.0000	40.783
54 Toluene (ccc)	91	7.532	7.532	(0.843)	934453	10.0000	10.006
55 trans-1,3-Dichloropropene	75	7.793	7.793	(0.872)	119054	10.0000	8.6012
56 *Ethyl Methacrylate	69	7.939	7.939	(0.888)	75154	10.0000	9.4200
57 1,1,2-Trichloroethane	97	7.964	7.964	(0.891)	75690	10.0000	9.9856
58 Tetrachloroethene	164	8.097	8.097	(0.906)	200535	10.0000	10.352
59 1,3-Dichloropropane	76	8.128	8.128	(0.909)	126206	10.0000	9.4990
60 2-Hexanone	43	8.256	8.256	(0.924)	219453	40.0000	43.215
61 Chlorodibromomethane	129	8.353	8.353	(0.935)	75965	10.0000	9.5617
62 1,2-Dibromoethane	107	8.444	8.444	(0.945)	66315	10.0000	9.7697
63 Chlorobenzene (spcc)	112	8.961	8.961	(1.003)	528482	10.0000	10.139
64 1,1,1,2-Tetrachloroethane	131	9.065	9.065	(1.014)	118299	10.0000	9.0429

Data File: /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Report Date: 07-Apr-2006 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	65 Ethylbenzene (ccc)	106	9.101	9.101	(1.018)	350192	10.0000	10.426
	66 m&p-Xylene	106	9.229	9.229	(1.033)	868897	20.0000	21.400
	67 o-Xylene	106	9.612	9.612	(1.076)	376021	10.0000	10.485
	68 Styrene	104	9.630	9.630	(1.078)	516325	10.0000	10.254
	69 Bromoform (spcc)	173	9.782	9.782	(1.095)	27777	10.0000	10.912
	70 Isopropylbenzene	105	9.995	9.995	(1.118)	1084594	10.0000	10.518
	71 *cis-1,4-dichloro-2-butene	88	10.056	10.056	(1.125)	9435	10.0000	7.9586
	72 Bromobenzene	156	10.257	10.257	(1.148)	159085	10.0000	10.380
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.300	10.300	(1.152)	57972	10.0000	10.253
	74 1,2,3-Trichloropropane	110	10.324	10.324	(0.898)	16452	10.0000	9.3492
	75 *trans-1,4-dichloro-2-butene	53	10.354	10.354	(0.901)	24854	10.0000	9.7590
	76 n-Propylbenzene	91	10.415	10.415	(0.906)	1257182	10.0000	10.162
	77 2-Chlorotoluene	91	10.482	10.482	(0.912)	636630	10.0000	9.7032
	78 1,3,5-Trimethylbenzene	105	10.622	10.622	(0.924)	865870	10.0000	10.402
	79 4-Chlorotoluene	91	10.604	10.604	(0.923)	697986	10.0000	10.014
	80 tert-Butylbenzene	119	10.999	10.999	(0.957)	774627	10.0000	10.393
	81 1,2,4-Trimethylbenzene	105	11.060	11.060	(0.962)	774538	10.0000	9.9034
	82 sec-Butylbenzene	105	11.285	11.285	(0.982)	1121957	10.0000	10.212
	83 1,3-Dichlorobenzene	146	11.395	11.395	(0.992)	359203	10.0000	10.040
	84 p-Isopropyltoluene	119	11.510	11.510	(1.002)	984336	10.0000	10.211
	85 1,4-Dichlorobenzene	146	11.528	11.528	(1.003)	334344	10.0000	10.046
	86 1,2-Dichlorobenzene	146	12.088	12.088	(1.052)	259715	10.0000	9.8393
	87 n-Butylbenzene	91	12.155	12.155	(1.058)	874826	10.0000	10.146
	88 1,2-Dibromo-3-chloropropane	157	13.262	13.262	(1.154)	8381	10.0000	8.9409
	89 1,2,4-Trichlorobenzene	180	14.303	14.303	(1.245)	162334	10.0000	10.147
	90 Hexachlorobutadiene	225	14.534	14.534	(1.265)	170193	10.0000	11.344
	91 Napthalene	128	14.552	14.552	(1.266)	157049	10.0000	9.3611
	92 1,2,3-Trichlorobenzene	180	14.820	14.820	(1.290)	107316	10.0000	10.183
M	93 *1,4-dichloro-2-butene(total)	53				34290	20.0000	17.718

Data File: /chem/gcms/mz.i/Z040706.b/ccvzd073.d
Date : 07-APR-2006 07:35
Client ID: STD10
Sample Info: CCVZD073,1,2,3,,STD10
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 22980
Column diameter: 0.18



STL Volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method: 8260B – KNOX-MS-0015, Rev. 8

Analysis Date:	2/15/06	Instrument:	MX	ICAL Batch/Scan Name:	X021506I	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below RL?		✓			✓
6. Was the primary ion used for all compounds?		✓		☐ *Secondary ion used due to interferences for:* _____	✓
7. Do the average RFs for SPCCs meet minimum RF?		✓			✓
8. Are %RSD <30% for CCCs?		✓			✓
9. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
10. If curves were used, is correlation coefficient ≥0.990?		✓			✓
11. At least 6 consecutive points used for quadratic curves?	✓				NA
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous?	✓			DW 2.16.06	NA
13. Is the "Y" intercept less than the RL for each curve?		X	(*)	2-propanol (*)	No
14. Were all peaks identified automatically? *If not, list analytes*: _____		✓			✓
15. If manual integrations were performed, are they clearly identified, initialed, dated and reason given? DW 2.16.06	X	✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
16. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
17. Elution order checked on isomeric pairs?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
19. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, & curves, followed by Quan reports, chromatograms & manual integrations, in order from low to high standard.		✓			✓
20. Was the 2nd source calibration verification standard within 70-130% and are results in ICAL folder? (25% DOD)		✓			✓

Analyst: MT	Date: 2/15/06	2nd Level Reviewer : DW	Date: 2/16/06
Comments:		**Comments:**	
		• t-butanol upper range dropped from 4000 to 2000	
		(*) • curve not valid for 2 propanol @ intercept > RL.	

STL Knoxville GC/MS Volatiles Run Log - Instrument MX

Target Batch	X0215060I	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXX
QuantIMS Batch	–	–	–	XXXXXXXXXXXXXX	XXXXXXXX
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	water
SOP#	KNOXMS0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID 0.969	VOA 6439
Intitial Cal Batch	X0215060I	XXXXXXXXX	XXXXXXXXX	SS Amt/ID ↓	↓
CCAL IS Areas	1323492	226173	260091	Heated?	Y (N)

☑ Date/Time Verified Preventive Maintenance Performed ☐ NA or ☑ see Maint. log book 1808 pg 57

Lot	Lab File ID	Time	ALS #	Archon Method/ Dil. Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments	Total Volume
Tune	BFXB15	1339	–	–	1	–	NA	MT	1ml VOA 6445	
ICAL 0.2	ICCXB158	1405	18	20/1(*)		25mL			VOA 6445 3ml; VOA 6447 100ml; VOA 6443 1ml	500mL
0.32	7	1431	19						4.8ml 100ml 1.6ml	↓
01	1	1458	20						2ml 20ml 1ml	100mL
02	2	1524	21	↓					4ml 20ml 2ml	↓
10	3	1551	22	21/1					– – 5ml	50mL
20	4	1617	23						10ml – 10ml	
40	5	1643	24						30ml – 20ml	
80	6	1710	25						– – 40ml	↓
BLK	BLK1	1736	26							
2nd Source	VCCXB15A	1803	27						10ml VOA 6448 → 50mL	
↓	VCCXB15B	1830	28	↓	↓	↓	↓	↓	↓	

MT 2/15/02

Analyst/Date: MT 2/15/02

(*) no IS/Surr loop used

Data File: /chem/gcms/mx.i/X021506i.b/bfxb15.d

Date : 15-FEB-2006 13:39

Client ID: TUNE

Instrument: mx.i

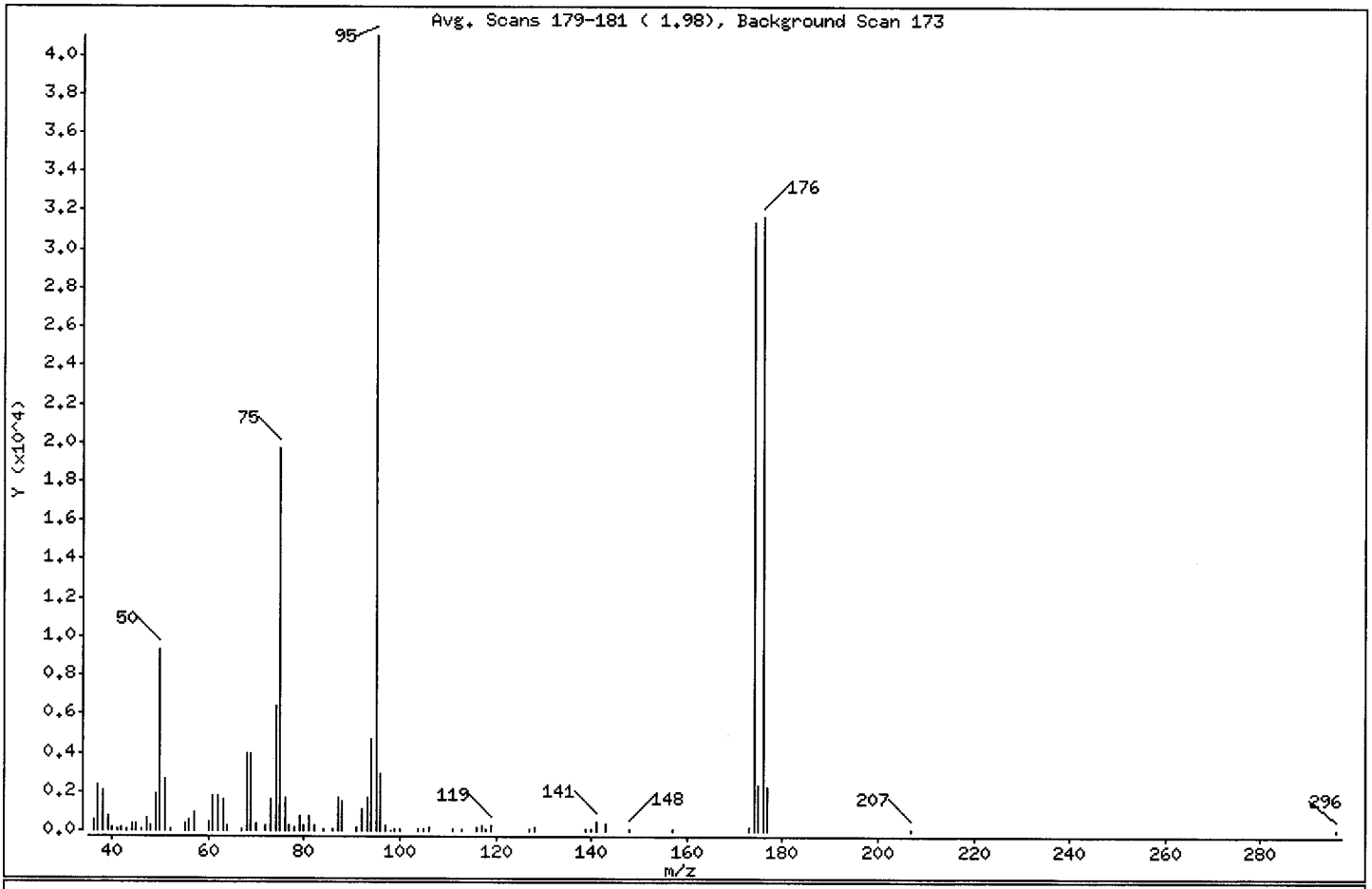
Sample Info: BFXB15,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.65
75	30.00 - 60.00% of mass 95	48.13
96	5.00 - 9.00% of mass 95	7.04
173	Less than 2.00% of mass 174	0.53 (0.69)
174	50.00 - 120.00% of mass 95	76.61
175	5.00 - 9.00% of mass 174	5.79 (7.56)
176	95.00 - 101.00% of mass 174	77.35 (100.96)
177	5.00 - 9.00% of mass 176	5.60 (7.24)

Data File: /chem/gcms/mx.i/X021506i.b/bfxb15.d

Date : 15-FEB-2006 13:39

Client ID: TUNE

Instrument: mx.i

Sample Info: BFXB15,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

Data File: bfxb15.d
Spectrum: Avg. Scans 179-181 (1.98), Background Scan 173
Location of Maximum: 95.00
Number of points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	576	60.00	501	84.00	77	117.00	262
37.00	2347	61.00	1779	86.00	59	118.00	128
38.00	2045	62.00	1823	87.00	1696	119.00	270
39.00	714	63.00	1598	88.00	1499	127.00	60
40.00	221	64.00	268	91.00	230	128.00	149
41.00	49	67.00	90	92.00	1095	139.00	73
42.00	185	68.00	3952	93.00	1696	140.00	55
43.00	92	69.00	3920	94.00	4738	141.00	453
44.00	362	70.00	384	95.00	40992	143.00	379
45.00	369	72.00	275	96.00	2887	148.00	121
46.00	65	73.00	1649	97.00	238	157.00	58
47.00	696	74.00	6368	98.00	26	173.00	216
48.00	286	75.00	19728	99.00	73	174.00	31400
49.00	1902	76.00	1656	100.00	52	175.00	2373
50.00	9284	77.00	315	104.00	53	176.00	31704
51.00	2677	78.00	234	105.00	54	177.00	2296
52.00	126	79.00	775	106.00	142	207.00	108
55.00	345	80.00	302	111.00	92	296.00	114
56.00	532	81.00	738	113.00	69		
57.00	970	82.00	253	116.00	159		

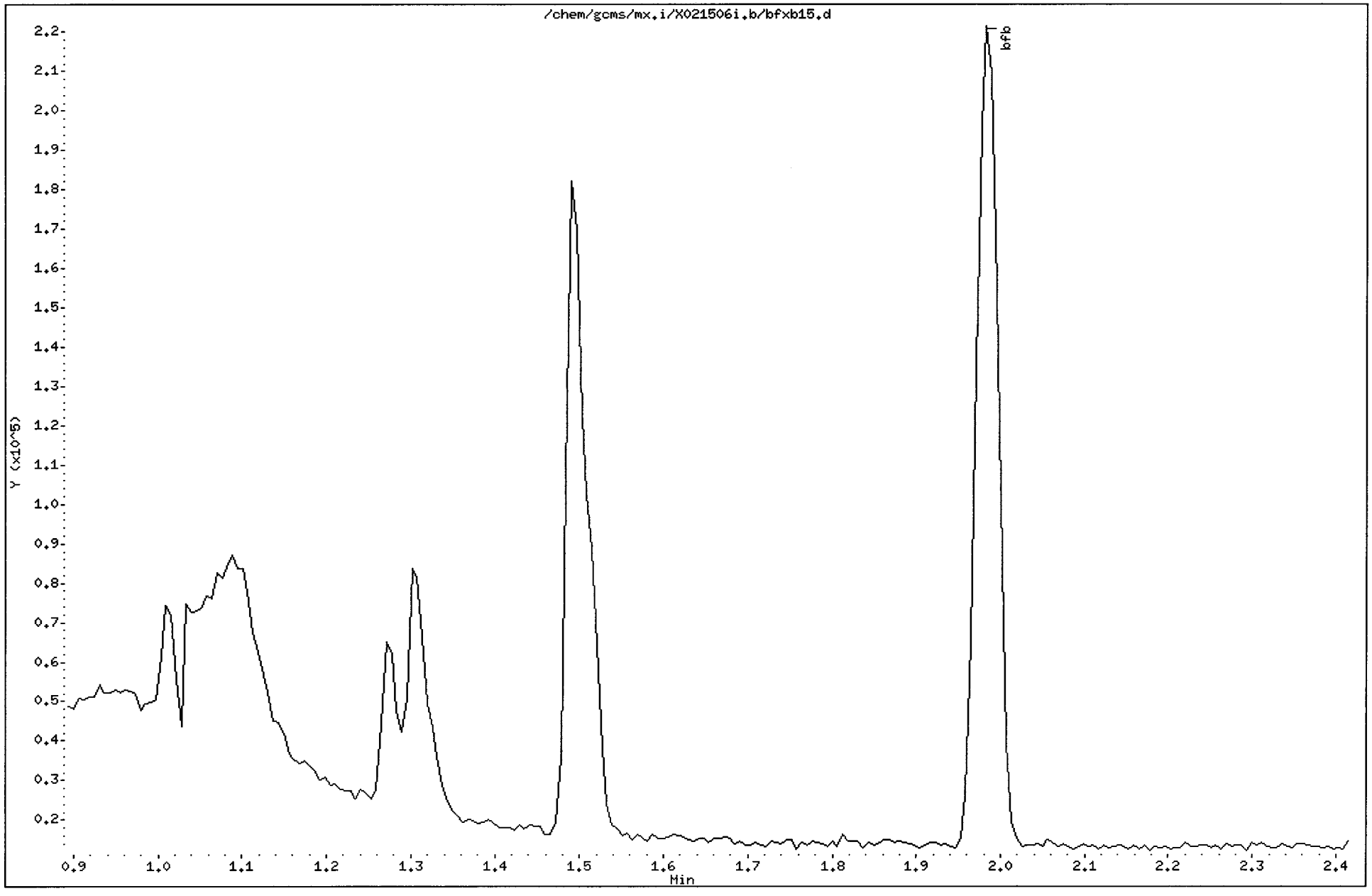
Data File: /chem/gcms/mx.i/X021506i.b/bfxb15.d
Date : 15-FEB-2006 13:39
Client ID: TUNE
Sample Info: BFXB15,1,3,,BFB,TUNE

Instrument: mx.i

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18



Report Date : 16-Feb-2006 09:51

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-FEB-2006 14:31
End Cal Date : 15-FEB-2006 17:10
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Cal Date : 15-Feb-2006 18:20 tillerm

Calibration File Names:
Level 1: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Level 2: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Level 3: /chem/gcms/mx.i/X021506I.b/icxb153.d
Level 4: /chem/gcms/mx.i/X021506I.b/icxb154.d
Level 5: /chem/gcms/mx.i/X021506I.b/icxb155.d
Level 6: /chem/gcms/mx.i/X021506I.b/icxb156.d
Level 7: /var/chem/gcms/mx.i/X021506I.b/icxb157.d

Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
M 8 1,2-Dichloroethene (total)	0.23592 +++++	0.22579	0.24962	0.25099	0.24842	0.23565	AVRG		0.24107		4.20958
M 9 Xylene (total)	2.41524 +++++	2.31606	2.44240	2.25772	2.35050	2.26245	AVRG		2.34073		3.28776
10 Dichlorodifluoromethane	0.32044 +++++	0.28540	0.32047	0.32948	0.32317	0.32041	AVRG		0.31656		4.94835
11 Chloromethane (spcc)	0.46109 0.45938	0.43252	0.48011	0.47536	0.48218	0.47053	AVRG		0.46588		3.67378

Report Date : 16-Feb-2006 09:51

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-FEB-2006 14:31
End Cal Date : 15-FEB-2006 17:10
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Cal Date : 15-Feb-2006 18:20 tillerm

Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Vinyl Chloride (ccc)	0.36230 0.29497	0.34449	0.38684	0.38552	0.39112	0.37949	AVRG		0.36353		9.46744
13 *1,3-Butadiene	0.30765 0.23352	0.28309	0.32178	0.33041	0.33646	0.32408	AVRG		0.30528		11.86794
14 Bromomethane	0.12683 +++++	0.12169	0.14113	0.14509	0.15554	0.15508	AVRG		0.14089		10.03782
15 Chloroethane	0.20590 +++++	0.18274	0.20465	0.20039	0.20596	0.19839	AVRG		0.19967		4.43473
16 *Vinyl Bromide	0.16952 +++++	0.15970	0.17746	0.17878	0.18153	0.17572	AVRG		0.17378		4.59520
17 Trichlorofluoromethane	0.39468 +++++	0.35357	0.41123	0.40969	0.41371	0.40337	AVRG		0.39771		5.70275
18 *2-Chloropropane	0.60692 +++++	0.56060	0.63784	0.63182	0.64798	0.62883	AVRG		0.61900		5.11471

Report Date : 16-Feb-2006 09:51

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-FEB-2006 14:31
End Cal Date : 15-FEB-2006 17:10
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Cal Date : 15-Feb-2006 18:20 tillerm

Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 1,1-Dichloroethene (ccc)	0.20048	0.18476	0.21051	0.20892	0.21599	0.20748					
	0.18103						AVRG		0.20131		6.67008
20 *Freon 113	0.17719	0.15951	0.18139	0.18585	0.18403	0.18376					
	+++++						AVRG		0.17862		5.50234
21 Acetone	0.01432	0.01429	0.01310	0.01459	0.01370	0.01498					
	+++++						AVRG		0.01416		4.74169
22 *Iodomethane	0.23811	0.23116	0.26262	0.26070	0.26313	0.25748					
	+++++						AVRG		0.25220		5.52177
23 Carbon Disulfide	0.75668	0.70969	0.81862	0.81077	0.82177	0.77867					
	0.63860						AVRG		0.76211		8.87133
24 *2-propanol	4631	8699	15388	41939	85359	191082					
	+++++						LINR	1.23728	0.00179		0.99412
25 *Acetonitrile	0.00272	0.00286	0.00226	0.00271	0.00280	0.00288					
	+++++						AVRG		0.00271		8.46063

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	0.3200 Level 7										
26 Methylene Chloride	0.15903	0.14617	0.15656	0.15576	0.15576	0.15435					
	+++++						AVRG		0.15461		2.85253
27 *t-butanol	14811	36667	87462	278246	534916	+++++					
	10349						LINR	2.25565	0.00204		0.99017
28 *Acrylonitrile	0.01935	0.01892	0.01934	0.02035	0.02034	0.02092					
	+++++						AVRG		0.01987		3.91192
29 trans-1,2-Dichloroethene	0.24154	0.22798	0.25924	0.26403	0.26124	0.24281					
	0.21123						AVRG		0.24401		7.96947
30 *MTBE	0.21359	0.20966	0.22042	0.23092	0.22425	0.22320					
	0.18827						AVRG		0.21576		6.49028
31 *Hexane	0.50005	0.45224	0.49311	0.51414	0.49312	0.50154					
	+++++						AVRG		0.49237		4.28804
32 1,1-Dichloroethane (spcc)	0.46849	0.46427	0.51129	0.50557	0.51369	0.50556					
	0.42011						AVRG		0.48414		7.18847

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	0.3200 Level 7										
33 *Vinyl Acetate	0.01111	0.01156	0.01094	0.01194	0.01143	0.01127					
	+++++						AVRG		0.01138		3.11151
34 2,2-Dichloropropane	0.44452	0.41775	0.46894	0.45760	0.45706	0.43179					
	0.39500						AVRG		0.43895		5.91018
35 cis 1,2-Dichloroethene	0.23030	0.22360	0.24000	0.23795	0.23560	0.22850					
	0.20669						AVRG		0.22895		4.95980
36 2-Butanone	0.02168	0.02343	0.01970	0.02210	0.02214	0.02351					
	+++++						AVRG		0.02209		6.30659
37 Bromochloromethane	0.05774	0.05545	0.06197	0.06247	0.06216	0.06143					
	+++++						AVRG		0.06020		4.82987
38 *THF	0.01342	0.01400	0.01215	0.01369	0.01365	0.01432					
	+++++						AVRG		0.01354		5.53464
39 Chloroform (ccc)	0.38503	0.36653	0.39270	0.39438	0.39494	0.38400					
	0.34294						AVRG		0.38007		5.02349

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
40 1,1,1-Trichloroethane	0.43900	0.40137	0.45173	0.44055	0.44813	0.42851					
	0.36514						AVRG		0.42492		7.34283
41 Carbon Tetrachloride	0.35647	0.33984	0.38986	0.38627	0.38575	0.36467					
	0.28996						AVRG		0.35897		9.90359
42 1,1-Dichloropropene	0.40838	0.38009	0.42795	0.41900	0.41991	0.39795					
	0.31819						AVRG		0.39592		9.55472
43 Benzene	1.04068	0.98879	1.04526	1.02599	1.01821	0.95968					
	1.01071						AVRG		1.01276		2.97226
44 1,2-Dichloroethane	0.16614	0.16653	0.17534	0.17643	0.17849	0.17633					
	0.15373						AVRG		0.17043		5.20694
45 Trichloroethene	0.27310	0.25942	0.29067	0.28484	0.28649	0.27676					
	0.23097						AVRG		0.27175		7.64373
46 1,2-Dichloropropane (ccc)	0.21202	0.20190	0.21903	0.22139	0.22149	0.21836					
	0.20134						AVRG		0.21365		4.11855

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	0.3200 Level 7										
47 *Methyl Methacrylate	0.06747	0.06515	0.06475	0.06638	0.06644	0.06898					
	+++++						AVRG		0.06653		2.33032
48 Dibromomethane	0.05506	0.05525	0.05733	0.05977	0.05935	0.05980					
	0.05041						AVRG		0.05671		6.05991
49 Bromodichloromethane	0.20557	0.20297	0.21469	0.22004	0.22002	0.21694					
	0.20503						AVRG		0.21218		3.50431
50 *2-Chloroethylvinylether	0.04128	0.04202	0.04504	0.04867	0.04837	0.05002					
	+++++						AVRG		0.04590		8.02715
51 cis-1,3-Dichloropropene	0.24601	0.24255	0.25667	0.26012	0.26068	0.25554					
	0.21782						AVRG		0.24849		6.10878
52 4-Methyl-2-pentanone	0.05366	0.05284	0.05145	0.05383	0.05344	0.05636					
	0.04879						AVRG		0.05291		4.41339
53 Toluene (ccc)	6.10342	5.71326	6.08871	6.03477	5.85875	5.58594					
	5.61839						AVRG		5.85760		3.79876

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
54 trans-1,3-Dichloropropene	1.02636	1.01404	1.04736	1.07037	1.04395	1.04093					
	0.94346						AVRG		1.02664		3.96126
55 *Ethyl Methacrylate	0.57797	0.53912	0.52425	0.53141	0.51415	0.53531					
	+++++						AVRG		0.53704		4.08124
56 1,1,2-Trichloroethane	0.45825	0.46567	0.45902	0.46990	0.45729	0.45560					
	0.47322						AVRG		0.46271		1.48802
57 Tetrachloroethene	1.30879	1.23298	1.33399	1.32919	1.30217	1.25421					
	1.04879						AVRG		1.25859		7.93075
58 1,3-Dichloropropane	0.88454	0.87403	0.88847	0.92234	0.88292	0.87155					
	0.85461						AVRG		0.88264		2.35663
59 2-Hexanone	0.20499	0.20281	0.17972	0.19395	0.19083	0.20214					
	+++++						AVRG		0.19574		4.90306
60 Chlorodibromomethane	0.57001	0.57132	0.59809	0.61804	0.59894	0.60412					
	0.45247						AVRG		0.57328		9.77423

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61 1,2-Dibromoethane	0.43479	0.42264	0.44454	0.45040	0.43405	0.43966					
	0.39035						AVRG		0.43092		4.62254
62 Chlorobenzene (spcc)	3.09162	3.02095	3.09346	3.10397	3.01669	2.92850					
	2.79328						AVRG		3.00692		3.74705
63 1,1,1,2-Tetrachloroethane	0.98812	0.98189	1.02262	1.04355	1.00383	0.98580					
	0.90152						AVRG		0.98962		4.52586
64 Ethylbenzene (ccc)	2.13369	2.04159	2.16360	2.12240	2.09660	2.00766					
	1.91066						AVRG		2.06803		4.24895
65 m&p-Xylene	2.56408	2.40917	2.56492	2.37005	2.47172	2.36840					
	2.21699						AVRG		2.42362		5.07663
66 o-Xylene	2.11756	2.12983	2.19735	2.03304	2.10808	2.05054					
	1.90781						AVRG		2.07775		4.44335
67 Styrene	3.12741	3.05907	3.08274	2.88467	2.96884	2.87255					
	2.85341						AVRG		2.97838		3.76133

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
68 Bromoform (spcc)	0.26603 +++++	0.27364	0.27471	0.28404	0.28168	0.28232	AVRG		0.27707		2.48252
69 Isopropylbenzene	7.06863 6.04598	6.66859	7.08613	6.73739	6.75717	6.28301	AVRG		6.66384		5.75713
70 *cis-1,4-dichloro-2-butene	0.13149 +++++	0.12652	0.12469	0.12950	0.12697	0.12594	AVRG		0.12752		1.96819
71 Bromobenzene	0.98490 0.86698	0.95362	0.95672	0.96178	0.94262	0.92278	AVRG		0.94134		4.01677
72 1,1,2,2-Tetrachloroethane(sp)	0.43098 0.37030	0.38896	0.34839	0.35749	0.34180	0.33374	AVRG		0.36738		9.13914
73 1,2,3-Trichloropropane	0.10906 +++++	0.09378	0.08729	0.10026	0.08543	0.08431	AVRG		0.09335		10.45046
74 *trans-1,4-dichloro-2-butene	0.10743 +++++	0.09704	0.09709	0.10606	0.09516	0.09285	AVRG		0.09927		6.05337

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	0.3200 Level 7										
75 n-Propylbenzene	7.41919	6.78813	7.25621	7.00227	6.94825	6.45493					
	6.28401						AVRG		6.87900		5.92337
76 2-Chlorotoluene	3.71032	3.53176	3.64993	3.64812	3.52222	3.36470					
	3.28419						AVRG		3.53018		4.45885
77 1,3,5-Trimethylbenzene	4.04794	3.82351	3.95106	3.32826	3.78179	3.65520					
	3.43024						AVRG		3.71686		7.09293
78 4-Chlorotoluene	3.95304	3.78388	3.87261	3.69540	3.69792	3.54497					
	3.50942						AVRG		3.72246		4.35534
79 tert-Butylbenzene	4.15593	3.90072	4.16955	3.99966	4.00119	3.77449					
	3.46796						AVRG		3.92421		6.21275
80 1,2,4-Trimethylbenzene	3.52651	3.31682	3.34935	2.80891	3.27402	3.20810					
	3.10080						AVRG		3.22636		7.00001
81 sec-Butylbenzene	6.12682	5.64542	6.05720	5.70539	5.80019	5.46803					
	5.09512						AVRG		5.69974		6.17190

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82 1,3-Dichlorobenzene	1.79227	1.69649	1.72250	1.69832	1.68639	1.67257					
	1.52531						AVRG		1.68484		4.77783
83 p-Isopropyltoluene	4.91282	4.54525	4.82311	4.25166	4.70989	4.47521					
	4.10978						AVRG		4.54682		6.47553
84 1,4-Dichlorobenzene	1.60495	1.56446	1.54466	1.51041	1.52490	1.50466					
	1.42695						AVRG		1.52586		3.64602
85 1,2-Dichlorobenzene	1.30397	1.22582	1.22848	1.20762	1.20427	1.19944					
	1.09639						AVRG		1.20943		5.06071
86 n-Butylbenzene	4.40088	4.04829	4.25310	3.51334	4.12360	3.96382					
	3.68759						AVRG		3.99866		7.76274
87 1,2-Dibromo-3-chloropropane	0.04862	0.04808	0.04512	0.05479	0.04997	0.05229					
	+++++						AVRG		0.04981		6.79522
88 1,2,4-Trichlorobenzene	0.64635	0.61922	0.59133	0.48394	0.60527	0.63076					
	0.58717						AVRG		0.59486		8.95269

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89 Hexachlorobutadiene	1.00870	0.92701	1.00903	0.98899	1.00456	0.96408					
	+++++						AVRG		0.98373		3.31831
90 Napthalene	0.47793	0.45356	0.42334	0.34221	0.43737	0.46893					
	+++++						AVRG		0.43389		11.32988
91 1,2,3-Trichlorobenzene	0.42104	0.38309	0.38499	0.31044	0.39478	0.42020					
	0.37389						AVRG		0.38406		9.69173
M 92 *1,4-dichloro-2-butene(total)	0.12713	0.11924	0.11817	0.12033	0.11817	0.11656					
	+++++						AVRG		0.11993		3.11997
$ 4 Dibromofluoromethane	0.16816	0.17065	0.16860	0.17223	0.17045	+++++					
	+++++						AVRG		0.17002		0.97329
$ 5 1,2-Dichloroethane-d4	0.13308	0.13146	0.12825	0.13497	0.13488	+++++					
	+++++						AVRG		0.13253		2.10738
$ 6 Toluene-d8	5.06240	4.87481	4.89939	4.92413	4.71936	+++++					
	+++++						AVRG		4.89602		2.50448

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$ 7 4-Bromofluorobenzene	1.19617 +++++	1.15216	1.17594	1.28255	1.12149	+++++	AVRG		1.18566		5.13604

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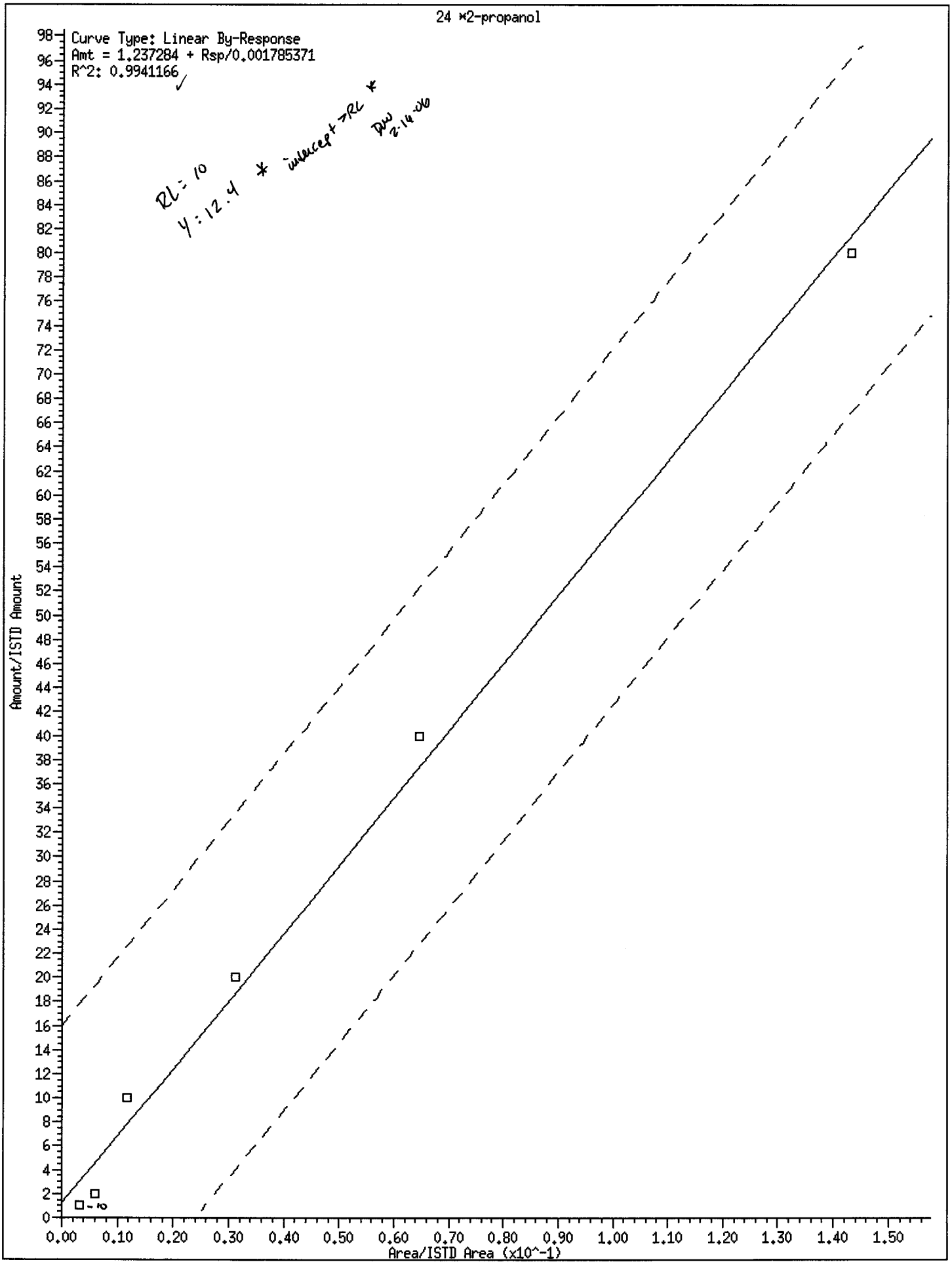
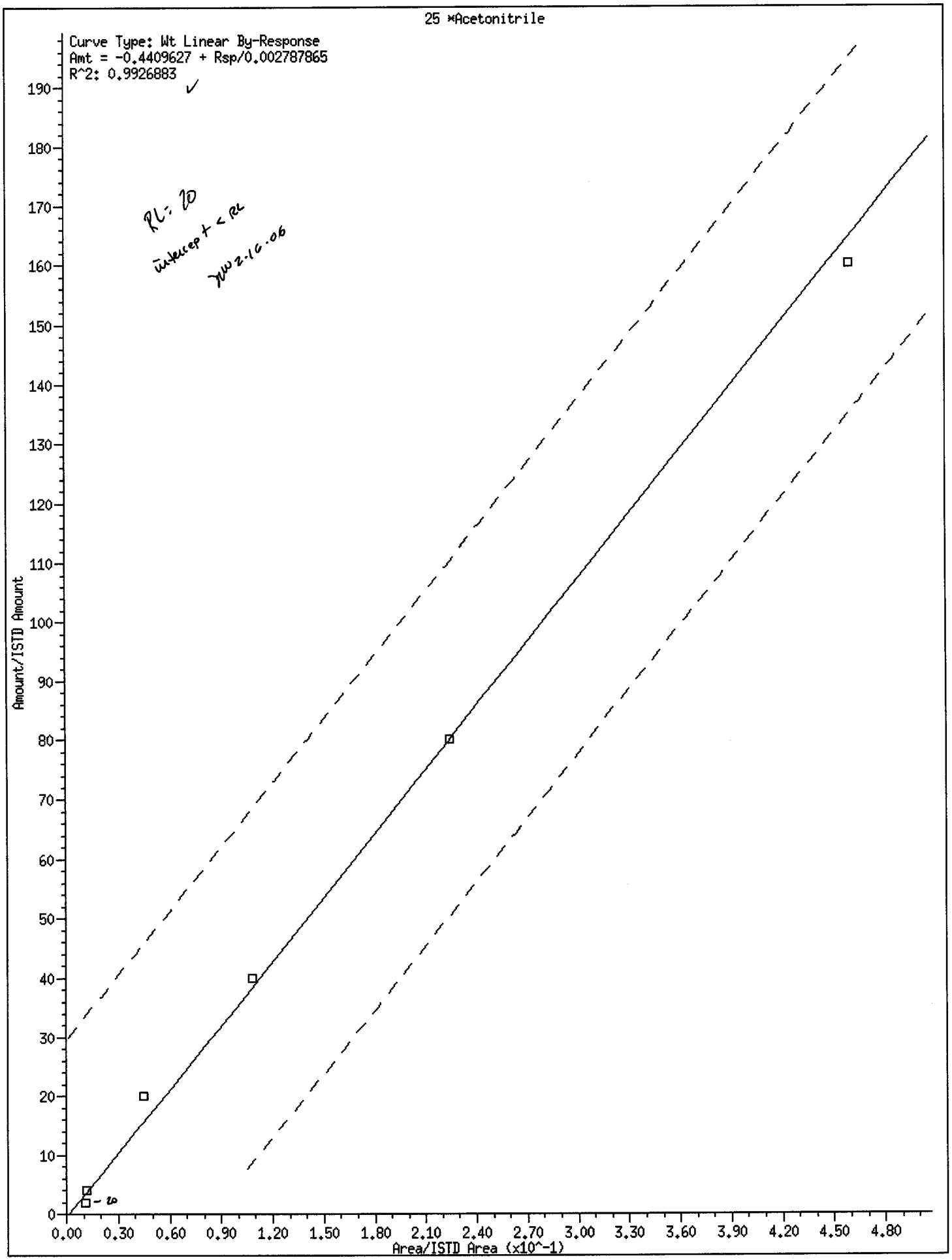
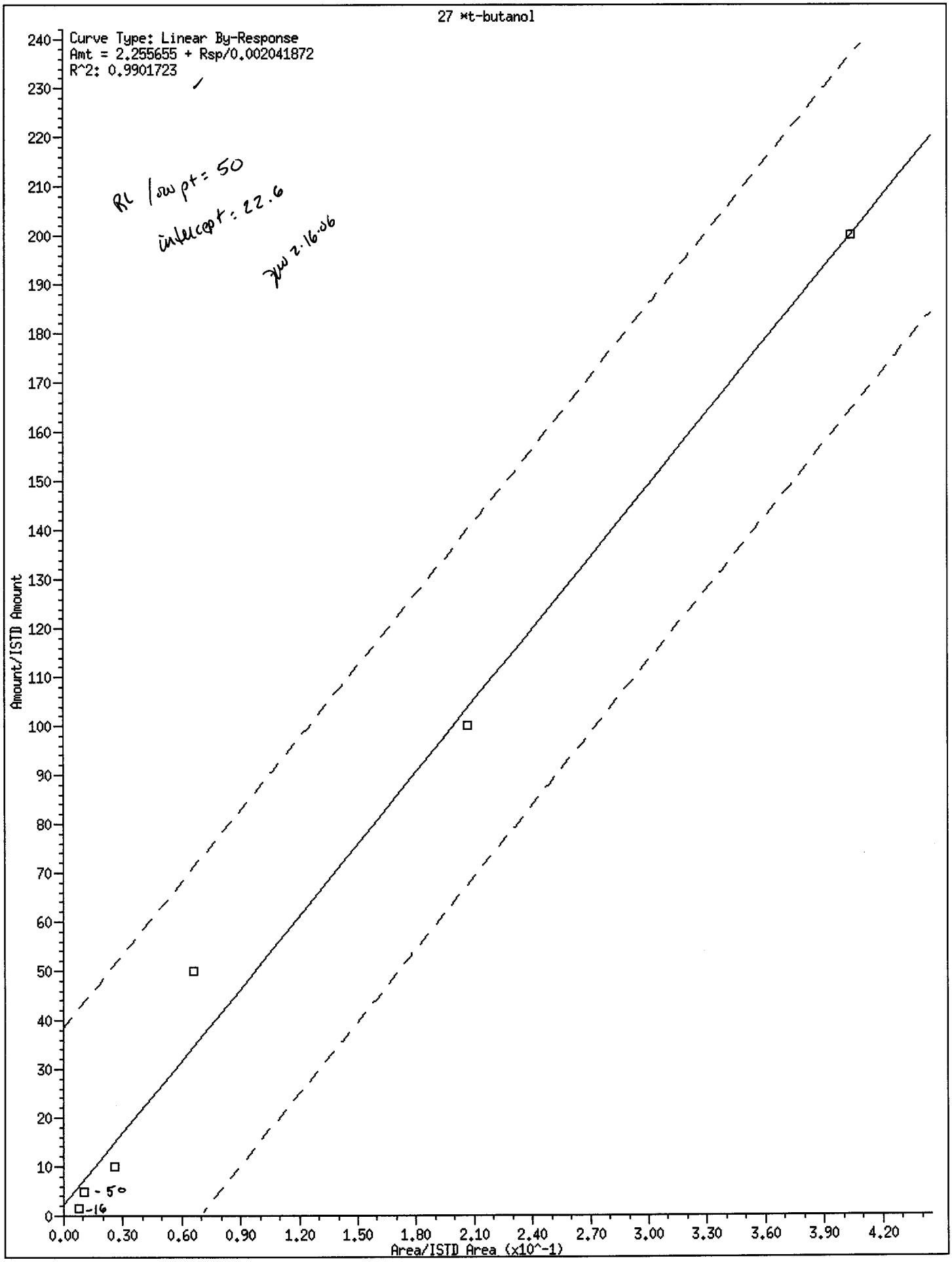
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response


24 *2-propanol
Curve Type: Linear By-Response
Amt = 1.237284 + Rsp/0.001785371
R^2: 0.9941166
RL = 10
y = 12.4 * intercept > RL *
DW 2.14.00
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


25 ×Acetonitrile
Curve Type: Wt Linear By-Response
Amt = -0.4409627 + Rsp/0.002787865
R^2: 0.9926883
RL: 20
intercept < RL
JW 2-16-06
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50
4.80


27 *t-butanol
Curve Type: Linear By-Response
Amt = 2.255655 + Rsp/0.002041872
R^2: 0.9901723
RL low pt = 50
intercept: 22.6
JW 2.16.06
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
-50
-16

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Lab Smp Id: ICCXB157 Client Smp ID: VSTD0.32
Inj Date : 15-FEB-2006 14:31
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB157,1,1,7,,VSTD0.32
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:31 Cal File: icxb157.d
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.853	4.853	(1.000)	1321744	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.585	(1.000)	219836	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.748	(1.000)	250994	10.0000	
$ 4 Dibromofluoromethane	113	4.275	4.269	(0.881)	10280	0.32000	0.45986
$ 5 1,2-Dichloroethane-d4	65	4.555	4.555	(0.939)	8171	0.32000	0.47217
$ 6 Toluene-d8	98	6.252	6.252	(0.824)	50822	0.32000	0.46746
$ 7 4-Bromofluorobenzene	95	8.874	8.874	(0.826)	14793	0.32000	0.50170
M 8 1,2-Dichloroethene (total)	96				17677	0.32000	0.58143
M 9 Xylene (total)	106				44613	0.32000	0.87417
10 Dichlorodifluoromethane	85	1.130	1.136	(0.233)	10849	0.32000	0.26584
11 Chloromethane (spcc)	50	1.264	1.264	(0.260)	19430	0.32000	0.32077
12 Vinyl Chloride (ccc)	62	1.343	1.343	(0.277)	12476	0.32000	0.27191
13 *1,3-Butadiene	39	1.373	1.373	(0.283)	9877	0.32000	0.26083
14 Bromomethane	94	1.586	1.592	(0.327)	4943	0.32000	0.28795
15 Chloroethane	64	1.678	1.678	(0.346)	8046	0.32000	0.30782

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Report Date: 15-Feb-2006 18:11

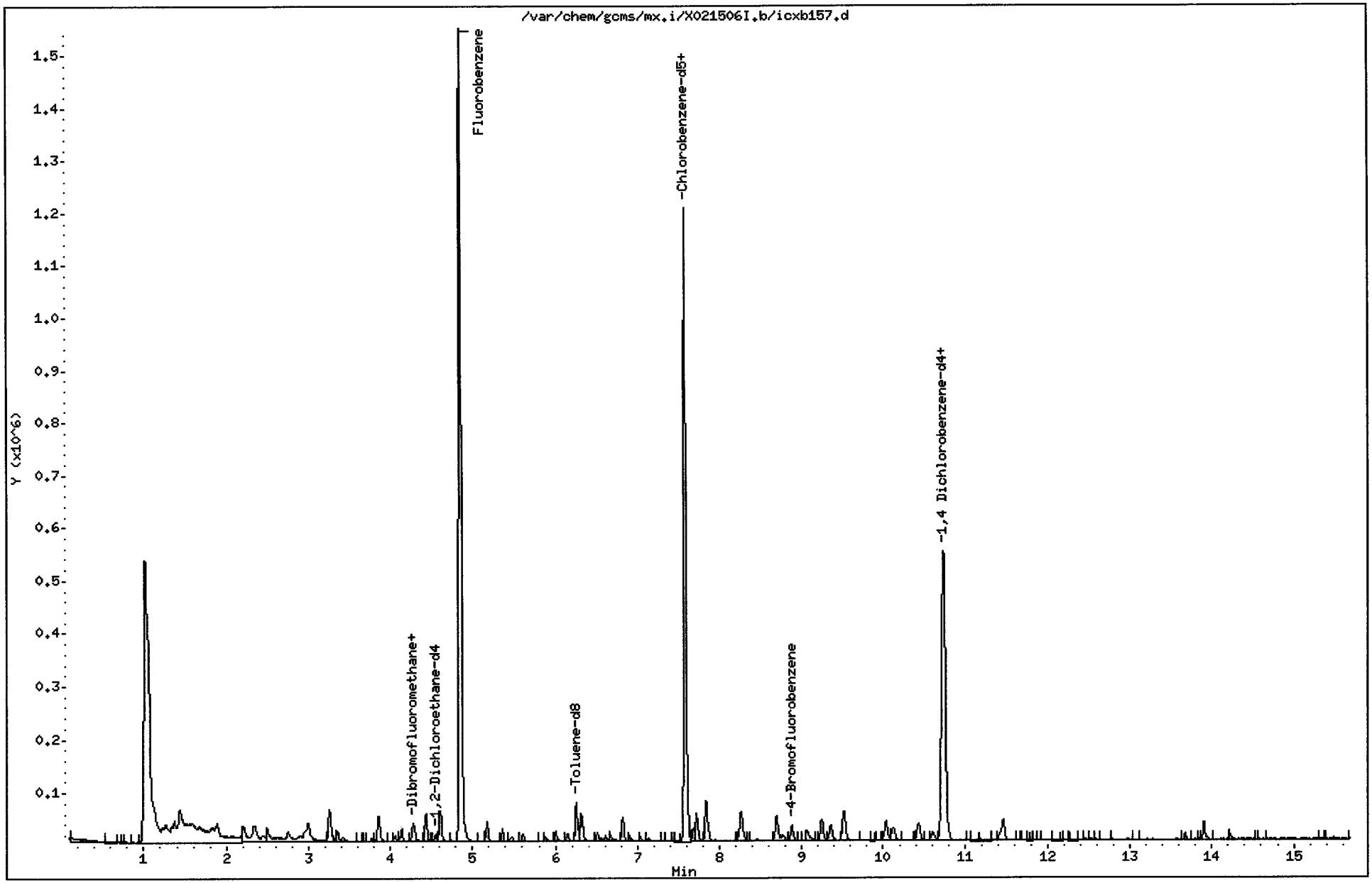
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.824	1.830	(0.376)	5511	0.32000	0.24690
17 Trichlorofluoromethane	101	1.891	1.890	(0.390)	12668	0.32000	0.26278
18 *2-Chloropropane	43	2.213	2.213	(0.456)	20850	0.32000	0.26214
19 1,1-Dichloroethene (ccc)	96	2.335	2.335	(0.481)	7657	0.32000	0.29832
20 *Freon 113	151	2.353	2.353	(0.485)	5312	0.32000	0.24976
21 Acetone	43	2.377	2.377	(0.490)	6586	0.32000	3.5842
22 *Iodomethane	142	2.450	2.450	(0.505)	8585	0.32000	0.26626
23 Carbon Disulfide	76	2.499	2.499	(0.515)	27010	0.32000	0.27959
24 *2-propanol	45	2.535	2.529	(0.522)	5825	~~0.32000~~ 3.2	17.731) NA TW 2-16-06
25 *Acetonitrile	40	2.621	2.614	(0.540)	4082	~~0.32000~~ 6.4	8.7971)
26 Methylene Chloride	84	2.754	2.754	(0.568)	6160	0.32000	0.30280
27 *t-butanol	59	2.900	2.894	(0.598)	10349	16.0000	39.386
28 *Acrylonitrile	53	2.961	2.961	(0.610)	15891	66.4000	6.2616
29 trans-1,2-Dichloroethene	96	2.992	2.998	(0.616)	8934	0.32000	0.28764
30 *MTBE	73	3.016	3.010	(0.621)	7963	0.32000	0.28968
31 *Hexane	57	3.253	3.259	(0.670)	34442	0.64000	0.54086
32 1,1-Dichloroethane (spcc)	63	3.351	3.357	(0.690)	17769	0.32000	0.28847
33 *Vinyl Acetate	86	3.424	3.417	(0.705)	890	0.64000	0.60141
34 2,2-Dichloropropane	77	3.862	3.855	(0.796)	16707	0.32000	0.29290
35 cis 1,2-Dichloroethene	96	3.855	3.855	(0.794)	8742	0.32000	0.29379
36 2-Butanone	43	3.874	3.874	(0.798)	5005	0.32000	1.7529
37 Bromochloromethane	128	4.062	4.056	(0.837)	2147	0.32000	0.27831
38 *THF	42	4.111	4.105	(0.847)	4016	1.28000	2.3036
39 Chloroform (ccc)	83	4.141	4.135	(0.853)	14505	0.32000	0.29517
40 1,1,1-Trichloroethane	97	4.293	4.293	(0.885)	15444	0.32000	0.28204
41 Carbon Tetrachloride	117	4.439	4.439	(0.915)	12264	0.32000	0.26972
42 1,1-Dichloropropene	75	4.439	4.433	(0.915)	13458	0.32000	0.26540
43 Benzene	78	4.610	4.610	(0.950)	42749	0.32000	0.31667
44 1,2-Dichloroethane	62	4.616	4.616	(0.951)	6502	0.32000	0.29736
45 Trichloroethene	130	5.176	5.176	(1.066)	9769	0.32000	0.28046
46 1,2-Dichloropropane (ccc)	63	5.364	5.358	(1.105)	8516	0.32000	0.30892
47 *Methyl Methacrylate	41	5.480	5.480	(1.129)	3589	0.32000	0.41278
48 Dibromomethane	93	5.455	5.461	(1.124)	2132	0.32000	0.28866
49 Bromodichloromethane	83	5.601	5.607	(1.154)	8672	0.32000	0.31583
50 *2-Chloroethylvinylether	63	5.881	5.881	(1.212)	3140	0.64000	0.55539
51 cis-1,3-Dichloropropene	75	6.003	6.003	(1.237)	9213	0.32000	0.28953
52 4-Methyl-2-pentanone	43	6.143	6.143	(1.266)	8254	1.28000	1.2084
53 Toluene (ccc)	91	6.313	6.313	(0.832)	39524	0.32000	0.30572
54 trans-1,3-Dichloropropene	75	6.508	6.502	(0.858)	6637	0.32000	0.29957
55 *Ethyl Methacrylate	69	6.605	6.605	(0.871)	3519	0.32000	0.29263
56 1,1,2-Trichloroethane	97	6.672	6.672	(0.880)	3329	0.32000	0.32859
57 Tetrachloroethene	164	6.818	6.818	(0.899)	7378	0.32000	0.27263
58 1,3-Dichloropropane	76	6.824	6.824	(0.900)	6012	0.32000	0.31242
59 2-Hexanone	43	6.909	6.903	(0.911)	5726	1.28000	1.3300
60 Chlorodibromomethane	129	7.031	7.031	(0.927)	3183	0.32000	0.24973
61 1,2-Dibromoethane	107	7.128	7.134	(0.940)	2746	0.32000	0.28788
62 Chlorobenzene (spcc)	112	7.609	7.609	(1.003)	19650	0.32000	0.29798

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Report Date: 15-Feb-2006 18:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 1,1,1,2-Tetrachloroethane	131	7.688	7.682	(1.014)	6342	0.32000	0.29635
	64 Ethylbenzene (ccc)	106	7.725	7.724	(1.018)	13441	0.32000	0.29646
	65 m&p-Xylene	106	7.840	7.840	(1.034)	31192	0.64000	0.58180
	66 o-Xylene	106	8.254	8.254	(1.088)	13421	0.32000	0.29237
	67 Styrene	104	8.272	8.266	(1.091)	20073	0.32000	0.30129
	68 Bromoform (spcc)	173	8.461	8.461	(1.115)	1537	0.32000	0.25762
	69 Isopropylbenzene	105	8.692	8.692	(1.146)	42532	0.32000	0.28802
	70 *cis-1,4-dichloro-2-butene	88	8.753	8.753	(1.154)	831	0.32000	0.29635
	71 Bromobenzene	156	9.069	9.069	(1.196)	6099	0.32000	0.29497
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.069	9.057	(1.196)	2605	0.32000	0.30436
	73 1,2,3-Trichloropropane	110	9.118	9.112	(0.849)	866	0.32000	0.35713
	74 *trans-1,4-dichloro-2-butene	53	9.148	9.142	(0.852)	833	0.32000	0.33043
	75 n-Propylbenzene	91	9.245	9.245	(0.861)	50472	0.32000	0.28988
	76 2-Chlorotoluene	91	9.355	9.355	(0.871)	26378	0.32000	0.29654
	77 1,3,5-Trimethylbenzene	105	9.513	9.519	(0.886)	27551	0.32000	0.28787
	78 4-Chlorotoluene	91	9.519	9.519	(0.886)	28187	0.32000	0.29712
	79 tert-Butylbenzene	119	10.036	10.036	(0.934)	27854	0.32000	0.28284
	80 1,2,4-Trimethylbenzene	105	10.121	10.127	(0.942)	24905	0.32000	0.29857
	81 sec-Butylbenzene	105	10.438	10.438	(0.972)	40923	0.32000	0.28449
	82 1,3-Dichlorobenzene	146	10.608	10.614	(0.988)	12251	0.32000	0.28982
	83 p-Isopropyltoluene	119	10.736	10.736	(0.999)	33009	0.32000	0.28604
	84 1,4-Dichlorobenzene	146	10.791	10.791	(1.005)	11461	0.32000	0.29744
	85 1,2-Dichlorobenzene	146	11.429	11.429	(1.064)	8806	0.32000	0.28910
	86 n-Butylbenzene	91	11.466	11.466	(1.067)	29618	0.32000	0.28799
	88 1,2,4-Trichlorobenzene	180	13.674	13.674	(1.273)	4716	0.32000	0.30362
	89 Hexachlorobutadiene	225	13.905	13.905	(1.294)	7379	0.32000	0.29953
	90 Napthalene	128	13.948	13.942	(1.298)	3968	0.32000	0.35008
	91 1,2,3-Trichlorobenzene	180	14.228	14.228	(1.324)	3003	0.32000	0.30187
M	92 *1,4-dichloro-2-butene(total)	53				1664	0.32000	0.62678

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Date : 15-FEB-2006 14:31
Client ID: VSTD0.32
Sample Info: ICCXB157,1,1,7,,VSTD0.32
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Report Date: 16-Feb-2006 09:49

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Lab Smp Id: ICCXB151 Client Smp ID: VSTD01
Inj Date : 15-FEB-2006 14:58
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB151,1,1,1,,VSTD01
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:20 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.853	4.853	(1.000)	1419697	10.0000	
* 2 Chlorobenzene-d5	119	7.584	7.585	(1.000)	236135	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.748	(1.000)	269853	10.0000	
$ 4 Dibromofluoromethane	113	4.275	4.269	(0.881)	23874	1.00000	0.98907
$ 5 1,2-Dichloroethane-d4	65	4.555	4.555	(0.939)	18893	1.00000	1.0041
$ 6 Toluene-d8	98	6.252	6.252	(0.824)	119541	1.00000	1.0340
$ 7 4-Bromofluorobenzene	95	8.874	8.874	(0.826)	32279	1.00000	1.0089
M 8 1,2-Dichloroethene (total)	96				66987	2.00000	1.9958
M 9 Xylene (total)	106				171097	3.00000	3.1351
10 Dichlorodifluoromethane	85	1.130	1.136	(0.233)	45493	1.00000	1.0123
11 Chloromethane (spcc)	50	1.264	1.264	(0.260)	65461	1.00000	0.98972
12 Vinyl Chloride (ccc)	62	1.343	1.343	(0.277)	51435	1.00000	0.99660
13 *1,3-Butadiene	39	1.373	1.373	(0.283)	43677	1.00000	1.0077
14 Bromomethane	94	1.592	1.592	(0.328)	18006	1.00000	0.90019
15 Chloroethane	64	1.677	1.678	(0.346)	29231	1.00000	1.0312

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Report Date: 16-Feb-2006 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.829	1.830	(0.377)	24066	1.00000	0.97544
17 Trichlorofluoromethane	101	1.890	1.890	(0.389)	56032	1.00000	0.99238
18 *2-Chloropropane	43	2.213	2.213	(0.456)	86164	1.00000	0.98048
19 1,1-Dichloroethene (ccc)	96	2.334	2.335	(0.481)	28462	1.00000	0.99588
20 *Freon 113	151	2.346	2.353	(0.484)	25155	1.00000	0.99196
21 Acetone	43	2.389	2.377	(0.492)	8132	4.00000	4.0442
22 *Iodomethane	142	2.450	2.450	(0.505)	33804	1.00000	0.94413
23 Carbon Disulfide	76	2.498	2.499	(0.515)	107426	1.00000	0.99287
24 *2-propanol	45	2.541	2.529	(0.524)	4631	10.0000	30.643
25 *Acetonitrile	40	2.614	2.614	(0.539)	7736	20.0000	22.776(M)
26 Methylene Chloride	84	2.754	2.754	(0.568)	22578	1.00000	1.0286
27 *t-butanol	59	2.894	2.894	(0.596)	14811	50.0000	73.649
28 *Acrylonitrile	53	2.961	2.961	(0.610)	54929	20.0000	19.472
29 trans-1,2-Dichloroethene	96	2.991	2.998	(0.616)	34292	1.00000	0.98989
30 *MTBE	73	3.009	3.010	(0.620)	30324	1.00000	0.98997
31 *Hexane	57	3.259	3.259	(0.672)	141984	2.00000	2.0312
32 1,1-Dichloroethane (spcc)	63	3.356	3.357	(0.692)	66511	1.00000	0.96767
33 *Vinyl Acetate	86	3.417	3.417	(0.704)	3155	2.00000	1.9536
34 2,2-Dichloropropane	77	3.855	3.855	(0.794)	63108	1.00000	1.0127
35 cis 1,2-Dichloroethene	96	3.861	3.855	(0.796)	32695	1.00000	1.0059
36 2-Butanone	43	3.879	3.874	(0.799)	12314	4.00000	3.9261
37 Bromochloromethane	128	4.056	4.056	(0.836)	8197	1.00000	0.95909
38 *THF	42	4.104	4.105	(0.846)	7623	4.00000	3.9662
39 Chloroform (ccc)	83	4.135	4.135	(0.852)	54663	1.00000	1.0130
40 1,1,1-Trichloroethane	97	4.293	4.293	(0.885)	62324	1.00000	1.0331
41 Carbon Tetrachloride	117	4.439	4.439	(0.915)	50608	1.00000	0.99303
42 1,1-Dichloropropene	75	4.439	4.433	(0.915)	57978	1.00000	1.0315
43 Benzene	78	4.609	4.610	(0.950)	147745	1.00000	1.0276
44 1,2-Dichloroethane	62	4.615	4.616	(0.951)	23587	1.00000	0.97486
45 Trichloroethene	130	5.175	5.176	(1.066)	38772	1.00000	1.0050
46 1,2-Dichloropropane (ccc)	63	5.358	5.358	(1.104)	30100	1.00000	0.99237
47 *Methyl Methacrylate	41	5.479	5.480	(1.129)	9578	1.00000	1.0141
48 Dibromomethane	93	5.461	5.461	(1.125)	7817	1.00000	0.97090
49 Bromodichloromethane	83	5.607	5.607	(1.155)	29185	1.00000	0.96886
50 *2-Chloroethylvinylether	63	5.881	5.881	(1.212)	11721	2.00000	1.7987
51 cis-1,3-Dichloropropene	75	6.003	6.003	(1.237)	34926	1.00000	0.99004
52 4-Methyl-2-pentanone	43	6.142	6.143	(1.266)	30475	4.00000	4.0571
53 Toluene (ccc)	91	6.313	6.313	(0.832)	144123	1.00000	1.0420
54 trans-1,3-Dichloropropene	75	6.507	6.502	(0.858)	24236	1.00000	0.99973
55 *Ethyl Methacrylate	69	6.605	6.605	(0.871)	13648	1.00000	1.0762
56 1,1,2-Trichloroethane	97	6.666	6.672	(0.879)	10821	1.00000	0.99038
57 Tetrachloroethene	164	6.818	6.818	(0.899)	30905	1.00000	1.0399
58 1,3-Dichloropropane	76	6.824	6.824	(0.900)	20887	1.00000	1.0022
59 2-Hexanone	43	6.903	6.903	(0.910)	19362	4.00000	4.1890
60 Chlorodibromomethane	129	7.031	7.031	(0.927)	13460	1.00000	0.99429
61 1,2-Dibromoethane	107	7.134	7.134	(0.941)	10267	1.00000	1.0090
62 Chlorobenzene (spcc)	112	7.609	7.609	(1.003)	73004	1.00000	1.0282

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Report Date: 16-Feb-2006 09:49

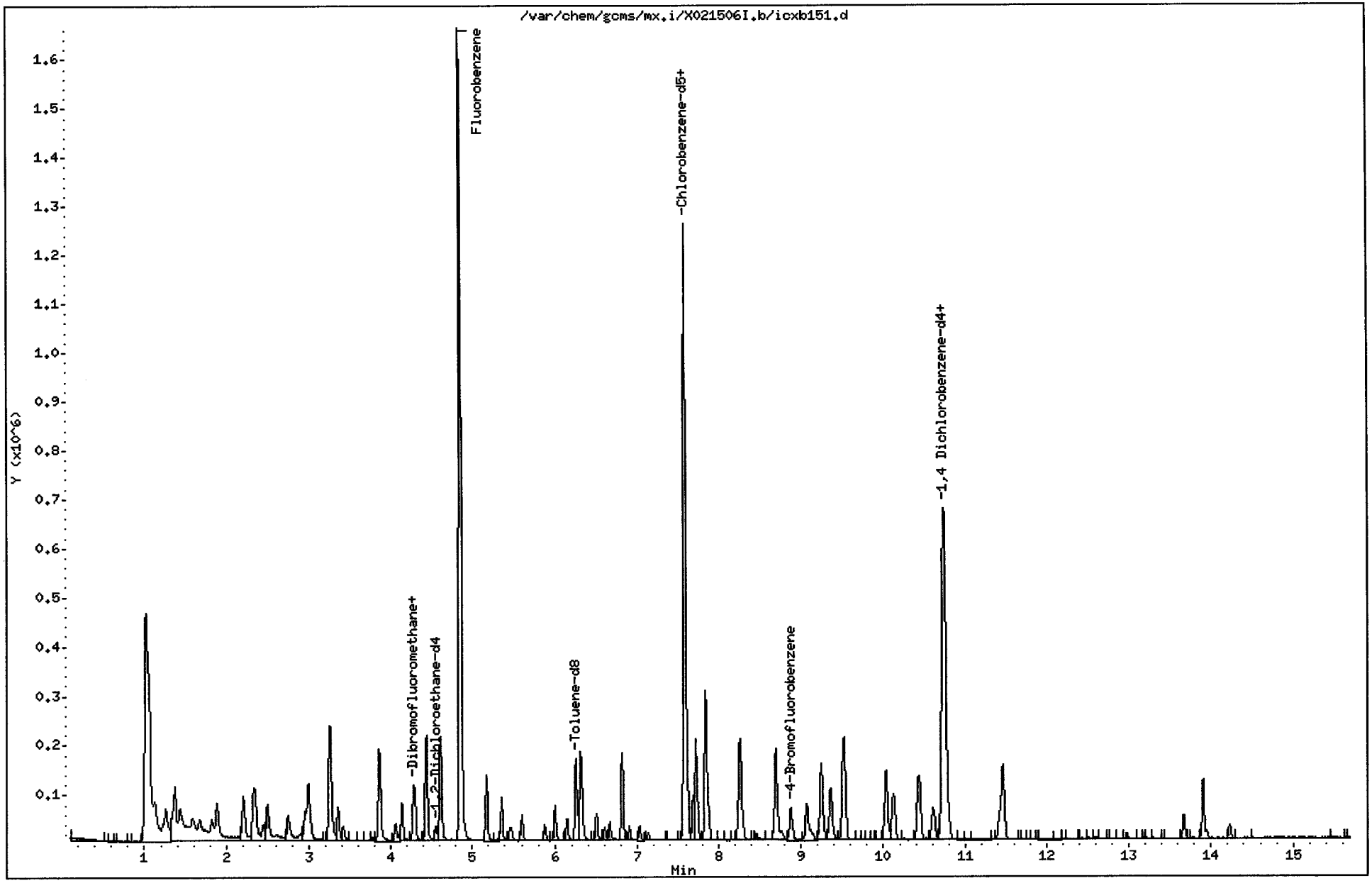
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 1,1,1,2-Tetrachloroethane	131	7.688	7.682	(1.014)	23333	1.00000	0.99849
	64 Ethylbenzene (ccc)	106	7.724	7.724	(1.018)	50384	1.00000	1.0318
	65 m&p-Xylene	106	7.840	7.840	(1.034)	121094	2.00000	2.1159
	66 o-Xylene	106	8.253	8.254	(1.088)	50003	1.00000	1.0192
	67 Styrene	104	8.272	8.266	(1.091)	73849	1.00000	1.0500
	68 Bromoform (spcc)	173	8.460	8.461	(1.115)	6282	1.00000	0.96016
	69 Isopropylbenzene	105	8.691	8.692	(1.146)	166915	1.00000	1.0607
	70 *cis-1,4-dichloro-2-butene	88	8.752	8.753	(1.154)	3105	1.00000	1.0312
	71 Bromobenzene	156	9.069	9.069	(1.196)	23257	1.00000	1.0463
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.063	9.057	(1.195)	10177	1.00000	1.1731
	73 1,2,3-Trichloropropane	110	9.117	9.112	(0.849)	2943	1.00000	1.1682
	74 *trans-1,4-dichloro-2-butene	53	9.142	9.142	(0.851)	2899	1.00000	1.0822
	75 n-Propylbenzene	91	9.245	9.245	(0.861)	200209	1.00000	1.0785
	76 2-Chlorotoluene	91	9.355	9.355	(0.871)	100124	1.00000	1.0510
	77 1,3,5-Trimethylbenzene	105	9.513	9.519	(0.886)	109235	1.00000	1.0891
	78 4-Chlorotoluene	91	9.519	9.519	(0.886)	106674	1.00000	1.0619
	79 tert-Butylbenzene	119	10.036	10.036	(0.934)	112149	1.00000	1.0590
	80 1,2,4-Trimethylbenzene	105	10.127	10.127	(0.943)	95164	1.00000	1.0930
	81 sec-Butylbenzene	105	10.437	10.438	(0.972)	165334	1.00000	1.0749
	82 1,3-Dichlorobenzene	146	10.614	10.614	(0.988)	48365	1.00000	1.0638
	83 p-Isopropyltoluene	119	10.735	10.736	(0.999)	132574	1.00000	1.0805
	84 1,4-Dichlorobenzene	146	10.790	10.791	(1.005)	43310	1.00000	1.0518
	85 1,2-Dichlorobenzene	146	11.435	11.429	(1.065)	35188	1.00000	1.0782
	86 n-Butylbenzene	91	11.465	11.466	(1.067)	118759	1.00000	1.1006
	87 1,2-Dibromo-3-chloropropane	157	12.597	12.591	(1.173)	1312	1.00000	0.97604
	88 1,2,4-Trichlorobenzene	180	13.674	13.674	(1.273)	17442	1.00000	1.0866
	89 Hexachlorobutadiene	225	13.905	13.905	(1.294)	27220	1.00000	1.0254
	90 Napthalene	128	13.948	13.942	(1.298)	12897	1.00000	1.1015
	91 1,2,3-Trichlorobenzene	180	14.227	14.228	(1.325)	11362	1.00000	1.0963
M	92 *1,4-dichloro-2-butene(total)	53				6004	2.00000	2.1134

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Date : 15-FEB-2006 14:58
Client ID: VSTD01
Sample Info: ICCXB151,1,1,1,,VSTD01
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File Name: icxb151.d

Inj. Date and Time: 15-FEB-2006 14:58

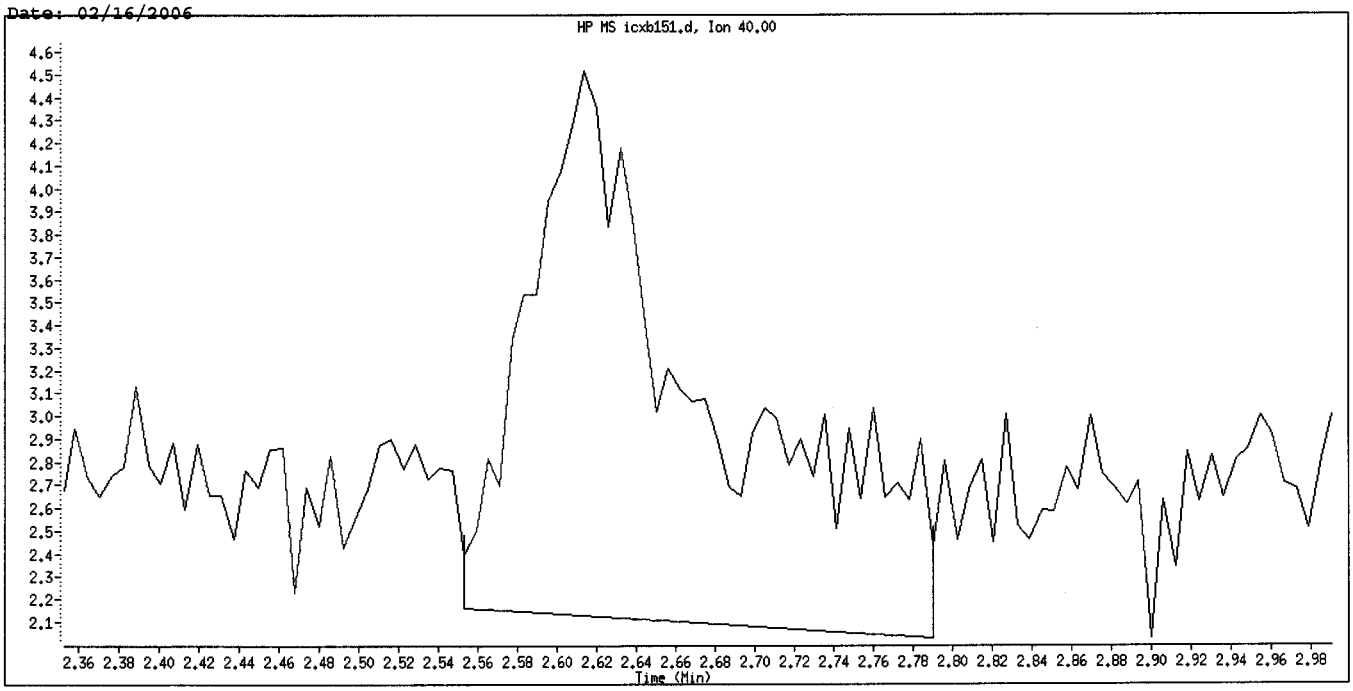
Instrument ID: mx.i

Client ID: VSTD01

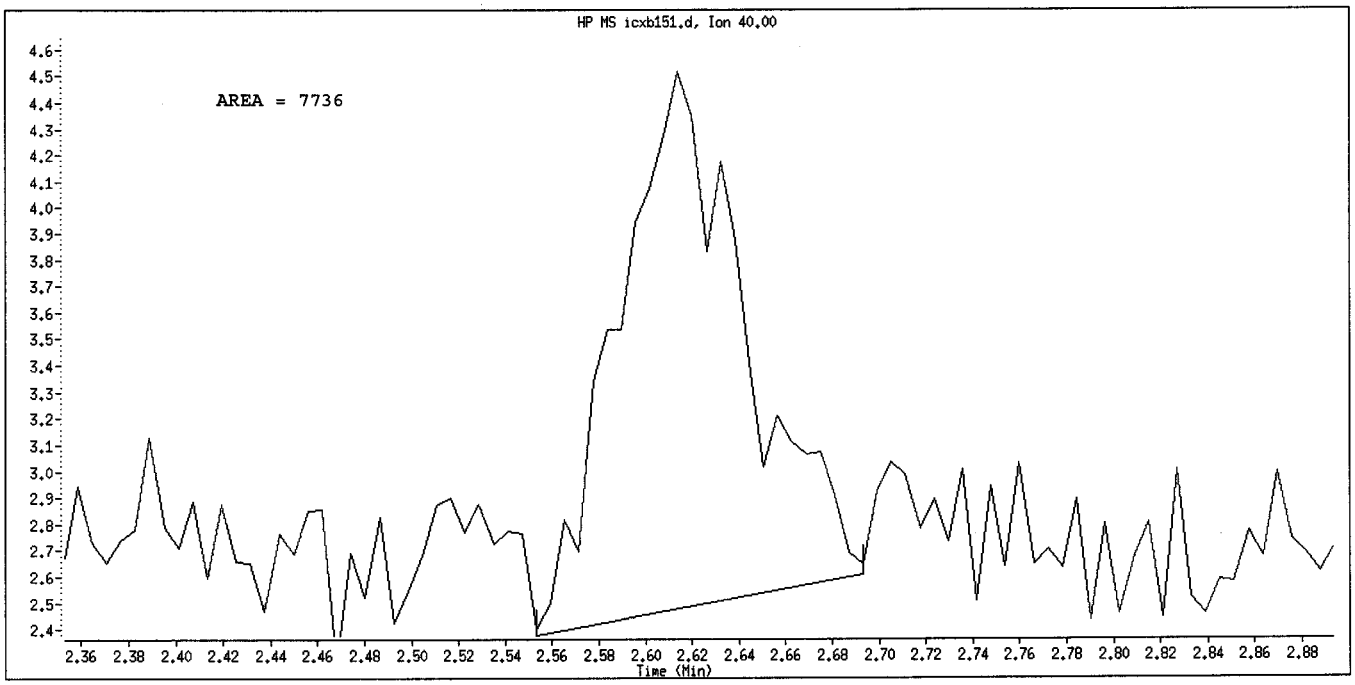
Compound Name: *Acetonitrile

CAS #: 75-05-8

Report Date: 02/16/2006



Original Integration



Manual Integration

Manually Integrated By: wilesd

Manual Integration Reason: Peak Tailing or Fronting

DW 2/16/06

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Lab Smp Id: ICCXB152 Client Smp ID: VSTD002
Inj Date : 15-FEB-2006 15:24
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB152,1,1,2,,VSTD002
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 15:24 Cal File: icxb152.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.852	4.853	(1.000)	1434554	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.585	(1.000)	243200	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.747	10.748	(1.000)	280547	10.0000	
$ 4 Dibromofluoromethane	113	4.274	4.269	(0.881)	48962	2.00000	2.0179
$ 5 1,2-Dichloroethane-d4	65	4.554	4.555	(0.939)	37718	2.00000	2.0081
$ 6 Toluene-d8	98	6.257	6.252	(0.825)	237111	2.00000	1.9714
$ 7 4-Bromofluorobenzene	95	8.873	8.874	(0.826)	64647	2.00000	1.9615
M 8 1,2-Dichloroethene (total)	96				129564	4.00000	3.9344
M 9 Xylene (total)	106				337959	6.00000	5.9913
10 Dichlorodifluoromethane	85	1.135	1.136	(0.234)	81883	2.00000	1.8486
11 Chloromethane (spcc)	50	1.263	1.264	(0.260)	124095	2.00000	1.9137
12 Vinyl Chloride (ccc)	62	1.342	1.343	(0.277)	98839	2.00000	1.9868
13 *1,3-Butadiene	39	1.372	1.373	(0.283)	81223	2.00000	1.9866
14 Bromomethane	94	1.591	1.592	(0.328)	34913	2.00000	1.8738
15 Chloroethane	64	1.676	1.678	(0.345)	52429	2.00000	1.8480

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Report Date: 15-Feb-2006 18:11

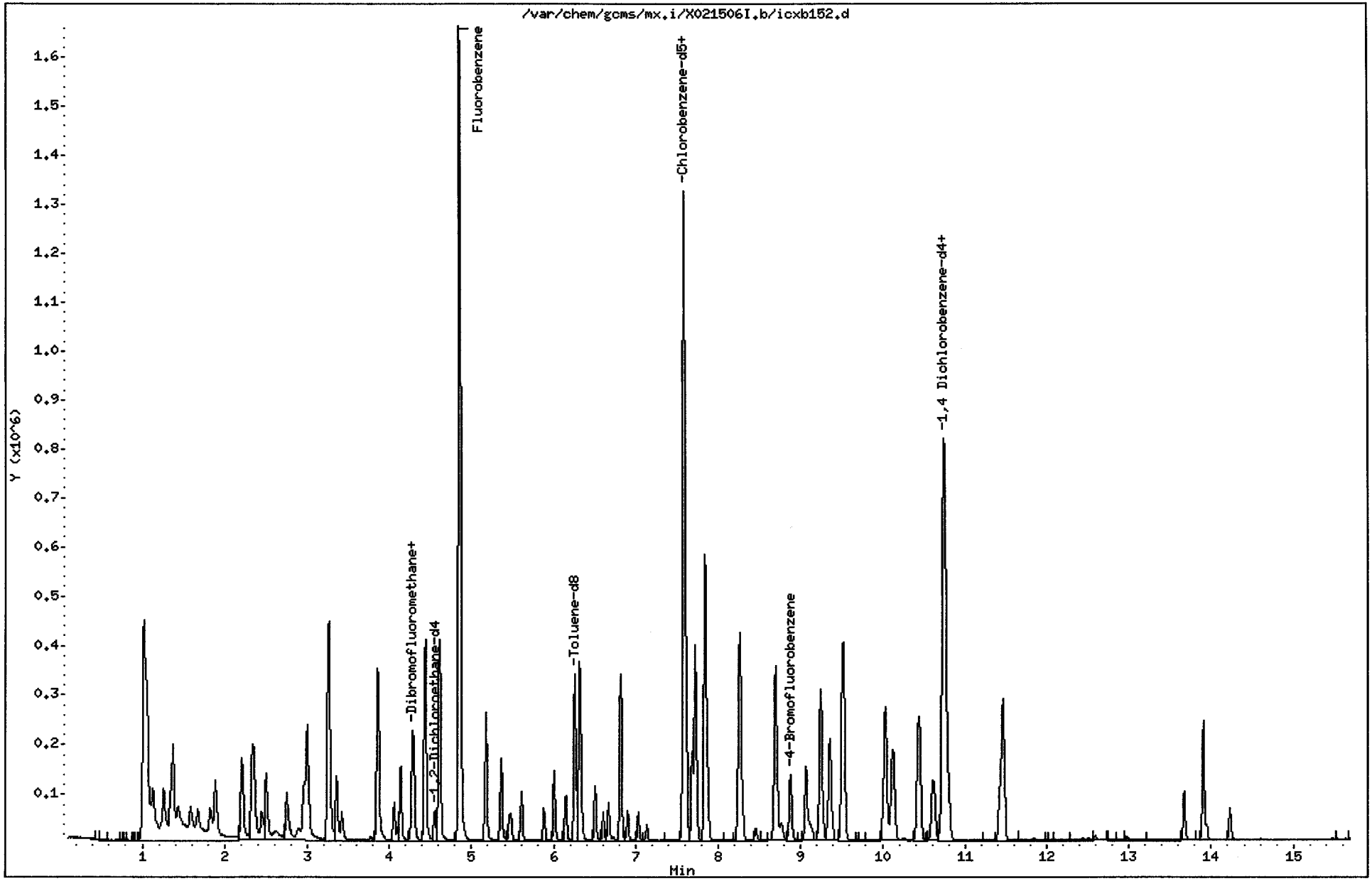
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.828	1.830	(0.377)	45819	2.00000	1.8911
17 Trichlorofluoromethane	101	1.889	1.890	(0.389)	101442	2.00000	1.9387
18 *2-Chloropropane	43	2.212	2.213	(0.456)	160843	2.00000	1.8631
19 1,1-Dichloroethene (ccc)	96	2.333	2.335	(0.481)	53009	2.00000	1.9028
20 *Freon 113	151	2.352	2.353	(0.485)	45765	2.00000	1.9825
21 Acetone	43	2.382	2.377	(0.491)	16401	8.00000	8.2236
22 *Iodomethane	142	2.443	2.450	(0.503)	66321	2.00000	1.8950
23 Carbon Disulfide	76	2.504	2.499	(0.516)	203619	2.00000	1.9420
24 *2-propanol	45	2.565	2.529	(0.529)	8699	20.0000	24.398
25 *Acetonitrile	40	2.619	2.614	(0.540)	16416	40.0000	32.596
26 Methylene Chloride	84	2.753	2.754	(0.567)	41939	2.00000	1.8993
27 *t-butanol	59	2.887	2.894	(0.595)	36667	100.000	128.57
28 *Acrylonitrile	53	2.960	2.961	(0.610)	108571	40.0000	39.416
29 trans-1,2-Dichloroethene	96	2.996	2.998	(0.618)	65411	2.00000	1.9403
30 *MTBE	73	3.009	3.010	(0.620)	60154	2.00000	2.0346
31 *Hexane	57	3.258	3.259	(0.671)	259505	4.00000	3.7546
32 1,1-Dichloroethane (spcc)	63	3.355	3.357	(0.692)	133205	2.00000	1.9924
33 *Vinyl Acetate	86	3.422	3.417	(0.705)	6633	4.00000	4.1272
34 2,2-Dichloropropane	77	3.854	3.855	(0.794)	119857	2.00000	1.9670
35 cis 1,2-Dichloroethene	96	3.860	3.855	(0.796)	64152	2.00000	1.9941
36 2-Butanone	43	3.879	3.874	(0.799)	26887	8.00000	8.6761
37 Bromochloromethane	128	4.061	4.056	(0.837)	15908	2.00000	1.8994
38 *THF	42	4.110	4.105	(0.847)	16071	8.00000	8.4924
39 Chloroform (ccc)	83	4.140	4.135	(0.853)	105161	2.00000	1.9716
40 1,1,1-Trichloroethane	97	4.292	4.293	(0.885)	115157	2.00000	1.9375
41 Carbon Tetrachloride	117	4.438	4.439	(0.915)	97505	2.00000	1.9757
42 1,1-Dichloropropene	75	4.438	4.433	(0.915)	109052	2.00000	1.9814
43 Benzene	78	4.609	4.610	(0.950)	283694	2.00000	1.9362
44 1,2-Dichloroethane	62	4.615	4.616	(0.951)	47778	2.00000	2.0132
45 Trichloroethene	130	5.174	5.176	(1.066)	74430	2.00000	1.9687
46 1,2-Dichloropropane (ccc)	63	5.357	5.358	(1.104)	57928	2.00000	1.9360
47 *Methyl Methacrylate	41	5.479	5.480	(1.129)	18691	2.00000	1.9806
48 Dibromomethane	93	5.460	5.461	(1.125)	15853	2.00000	1.9775
49 Bromodichloromethane	83	5.606	5.607	(1.155)	58234	2.00000	1.9540
50 *2-Chloroethylvinylether	63	5.880	5.881	(1.212)	24111	4.00000	3.9288
51 cis-1,3-Dichloropropene	75	6.008	6.003	(1.238)	69590	2.00000	2.0149
52 4-Methyl-2-pentanone	43	6.148	6.143	(1.267)	60637	8.00000	7.8477
53 Toluene (ccc)	91	6.312	6.313	(0.832)	277893	2.00000	1.9430
54 trans-1,3-Dichloropropene	75	6.507	6.502	(0.858)	49323	2.00000	2.0124
55 *Ethyl Methacrylate	69	6.604	6.605	(0.871)	26223	2.00000	1.9708
56 1,1,2-Trichloroethane	97	6.671	6.672	(0.880)	22650	2.00000	2.0204
57 Tetrachloroethene	164	6.817	6.818	(0.899)	59972	2.00000	2.0030
58 1,3-Dichloropropane	76	6.823	6.824	(0.900)	42513	2.00000	1.9968
59 2-Hexanone	43	6.908	6.903	(0.911)	39459	8.00000	8.2848
60 Chlorodibromomethane	129	7.030	7.031	(0.927)	27789	2.00000	1.9708
61 1,2-Dibromoethane	107	7.133	7.134	(0.941)	20557	2.00000	1.9477
62 Chlorobenzene (spcc)	112	7.608	7.609	(1.003)	146939	2.00000	2.0141

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Report Date: 15-Feb-2006 18:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 1,1,1,2-Tetrachloroethane	131	7.687	7.682	(1.014)	47759	2.00000	2.0172
	64 Ethylbenzene (ccc)	106	7.723	7.724	(1.018)	99303	2.00000	1.9798
	65 m&p-Xylene	106	7.839	7.840	(1.034)	234364	4.00000	3.9514
	66 o-Xylene	106	8.253	8.254	(1.088)	103595	2.00000	2.0399
	67 Styrene	104	8.271	8.266	(1.091)	148793	2.00000	2.0187
	68 Bromoform (spcc)	173	8.459	8.461	(1.116)	13310	2.00000	2.0161
	69 Isopropylbenzene	105	8.691	8.692	(1.146)	324360	2.00000	1.9855
	70 *cis-1,4-dichloro-2-butene	88	8.758	8.753	(1.155)	6154	2.00000	1.9838
	71 Bromobenzene	156	9.068	9.069	(1.196)	46384	2.00000	2.0278
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.062	9.057	(1.195)	18919	2.00000	1.9975
	73 1,2,3-Trichloropropane	110	9.116	9.112	(0.848)	5262	2.00000	1.9395
	74 *trans-1,4-dichloro-2-butene	53	9.141	9.142	(0.851)	5445	2.00000	1.9309
	75 n-Propylbenzene	91	9.244	9.245	(0.860)	380878	2.00000	1.9571
	76 2-Chlorotoluene	91	9.354	9.355	(0.870)	198165	2.00000	1.9939
	77 1,3,5-Trimethylbenzene	105	9.518	9.519	(0.886)	214535	2.00000	2.0054
	78 4-Chlorotoluene	91	9.518	9.519	(0.886)	212311	2.00000	2.0022
	79 tert-Butylbenzene	119	10.041	10.036	(0.934)	218867	2.00000	1.9884
	80 1,2,4-Trimethylbenzene	105	10.126	10.127	(0.942)	186105	2.00000	1.9960
	81 sec-Butylbenzene	105	10.437	10.438	(0.971)	316761	2.00000	1.9701
	82 1,3-Dichlorobenzene	146	10.613	10.614	(0.988)	95189	2.00000	2.0147
	83 p-Isopropyltoluene	119	10.741	10.736	(0.999)	255031	2.00000	1.9772
	84 1,4-Dichlorobenzene	146	10.789	10.791	(1.004)	87781	2.00000	2.0381
	85 1,2-Dichlorobenzene	146	11.434	11.429	(1.064)	68780	2.00000	2.0201
	86 n-Butylbenzene	91	11.471	11.466	(1.067)	227147	2.00000	1.9760
	87 1,2-Dibromo-3-chloropropane	157	12.590	12.591	(1.172)	2698	2.00000	2.0346
	88 1,2,4-Trichlorobenzene	180	13.673	13.674	(1.272)	34744	2.00000	2.0008
	89 Hexachlorobutadiene	225	13.904	13.905	(1.294)	52014	2.00000	1.8888
	90 Napthalene	128	13.941	13.942	(1.297)	25449	2.00000	2.0086
	91 1,2,3-Trichlorobenzene	180	14.233	14.228	(1.324)	21495	2.00000	1.9330
M	92 *1,4-dichloro-2-butene(total)	53				11600	4.00000	3.9147

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Date : 15-FEB-2006 15:24
Client ID: VSTD002
Sample Info: ICCXB152,1,1,2,,VSTD002
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Lab Smp Id: ICCXB153 Client Smp ID: VSTD010
Inj Date : 15-FEB-2006 15:51
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB153,1,1,3,,VSTD010
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 15:51 Cal File: icxb153.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.853	4.853	(1.000)	1323492	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.585	(1.000)	226173	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.748	10.748	(1.000)	260091	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.269	(0.880)	223143	10.0000	9.9682
$ 5 1,2-Dichloroethane-d4	65	4.555	4.555	(0.939)	169743	10.0000	9.7955
$ 6 Toluene-d8	98	6.252	6.252	(0.824)	1108110	10.0000	9.9067
$ 7 4-Bromofluorobenzene	95	8.874	8.874	(0.826)	305851	10.0000	10.010
M 8 1,2-Dichloroethene (total)	96				660747	20.0000	21.688
M 9 Xylene (total)	106				1657213	30.0000	31.557
10 Dichlorodifluoromethane	85	1.136	1.136	(0.234)	424133	10.0000	10.379
11 Chloromethane (spcc)	50	1.264	1.264	(0.260)	635423	10.0000	10.604
12 Vinyl Chloride (ccc)	62	1.343	1.343	(0.277)	511985	10.0000	11.163
13 *1,3-Butadiene	39	1.373	1.373	(0.283)	425870	10.0000	11.290
14 Bromomethane	94	1.592	1.592	(0.328)	186783	10.0000	10.644
15 Chloroethane	64	1.678	1.678	(0.346)	270857	10.0000	10.487

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Report Date: 15-Feb-2006 18:11

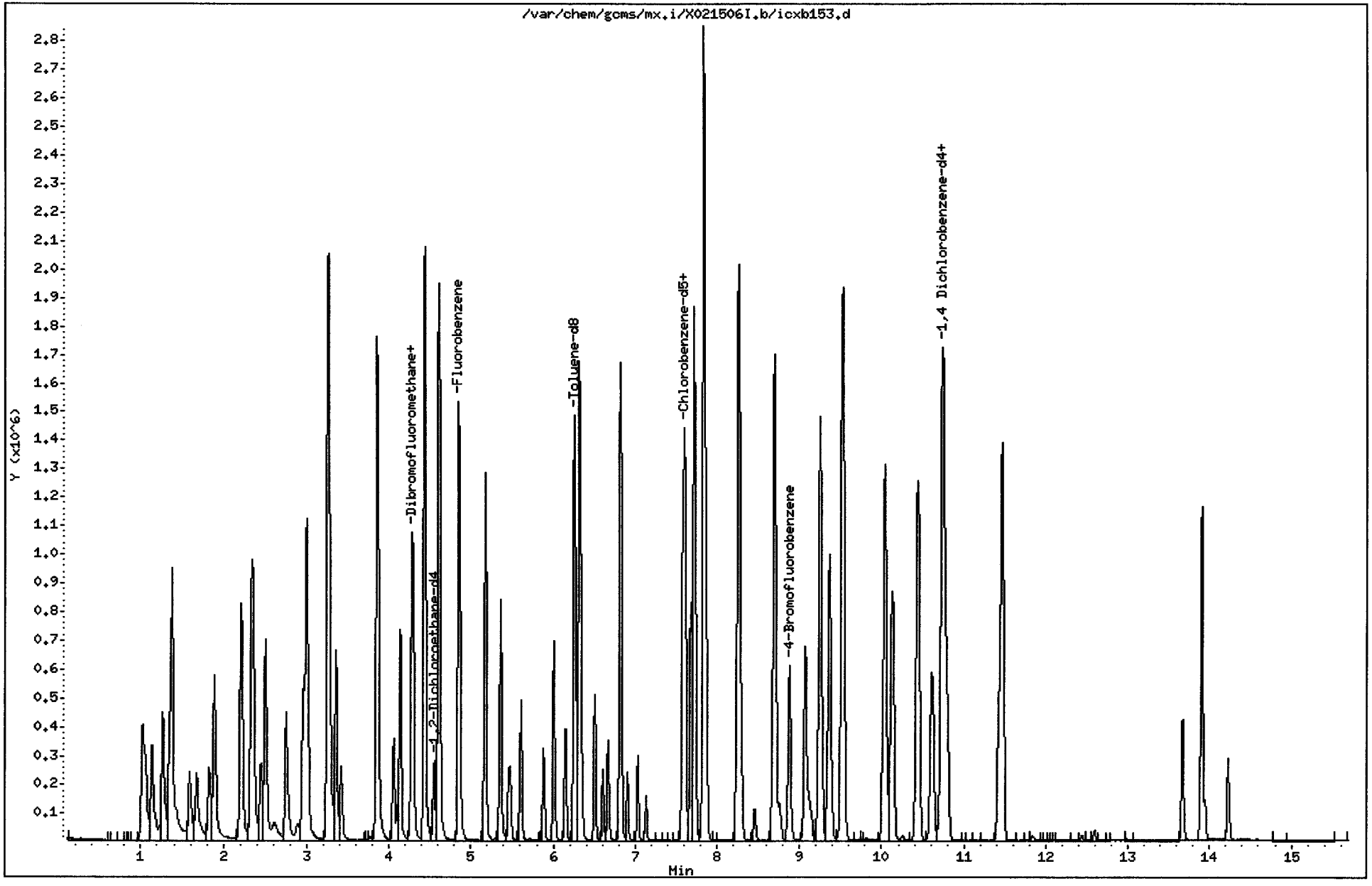
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.830	1.830	(0.377)	234864	10.0000	10.507
17 Trichlorofluoromethane	101	1.890	1.890	(0.390)	544253	10.0000	11.278
18 *2-Chloropropane	43	2.213	2.213	(0.456)	844174	10.0000	10.741
19 1,1-Dichloroethene (ccc)	96	2.335	2.335	(0.481)	278606	10.0000	10.840
20 *Freon 113	151	2.353	2.353	(0.485)	240072	10.0000	11.264
21 Acetone	43	2.377	2.377	(0.490)	69334	40.0000	31.874
22 *Iodomethane	142	2.450	2.450	(0.505)	347581	10.0000	10.727
23 Carbon Disulfide	76	2.499	2.499	(0.515)	1083434	10.0000	11.200
24 *2-propanol	45	2.529	2.529	(0.521)	15388	100.000	46.782
25 *Acetonitrile	40	2.614	2.614	(0.539)	59824	200.000	187.49
26 Methylene Chloride	84	2.754	2.754	(0.568)	207210	10.0000	10.144
27 *t-butanol	59	2.894	2.894	(0.596)	87462	500.000	331.41
28 *Acrylonitrile	53	2.961	2.961	(0.610)	511856	200.000	199.22
29 trans-1,2-Dichloroethene	96	2.998	2.998	(0.618)	343104	10.0000	11.024
30 *MTBE	73	3.010	3.010	(0.620)	291722	10.0000	10.705
31 *Hexane	57	3.259	3.259	(0.672)	1305264	20.0000	20.464
32 1,1-Dichloroethane (spcc)	63	3.357	3.357	(0.692)	676682	10.0000	10.971
33 *Vinyl Acetate	86	3.417	3.417	(0.704)	28959	20.0000	19.530
34 2,2-Dichloropropane	77	3.855	3.855	(0.794)	620638	10.0000	11.040
35 cis 1,2-Dichloroethene	96	3.855	3.855	(0.794)	317642	10.0000	10.663
36 2-Butanone	43	3.874	3.874	(0.798)	104271	40.0000	36.774
37 Bromochloromethane	128	4.056	4.056	(0.836)	82013	10.0000	10.613
38 *THF	42	4.105	4.105	(0.846)	64315	40.0000	36.950
39 Chloroform (ccc)	83	4.135	4.135	(0.852)	519730	10.0000	10.562
40 1,1,1-Trichloroethane	97	4.293	4.293	(0.885)	597867	10.0000	10.903
41 Carbon Tetrachloride	117	4.439	4.439	(0.915)	515970	10.0000	11.332
42 1,1-Dichloropropene	75	4.433	4.433	(0.914)	566388	10.0000	11.155
43 Benzene	78	4.610	4.610	(0.950)	1383392	10.0000	10.234
44 1,2-Dichloroethane	62	4.616	4.616	(0.951)	232058	10.0000	10.599
45 Trichloroethene	130	5.176	5.176	(1.066)	384696	10.0000	11.029
46 1,2-Dichloropropane (ccc)	63	5.358	5.358	(1.104)	289885	10.0000	10.501
47 *Methyl Methacrylate	41	5.480	5.480	(1.129)	85694	10.0000	9.8861
48 Dibromomethane	93	5.461	5.461	(1.125)	75882	10.0000	10.260
49 Bromodichloromethane	83	5.607	5.607	(1.155)	284137	10.0000	10.334
50 *2-Chloroethylvinylether	63	5.881	5.881	(1.212)	119232	20.0000	21.058
51 cis-1,3-Dichloropropene	75	6.003	6.003	(1.237)	339698	10.0000	10.646
52 4-Methyl-2-pentanone	43	6.143	6.143	(1.266)	272360	40.0000	38.153
53 Toluene (ccc)	91	6.313	6.313	(0.832)	1377101	10.0000	10.343
54 trans-1,3-Dichloropropene	75	6.502	6.502	(0.857)	236885	10.0000	10.392
55 *Ethyl Methacrylate	69	6.605	6.605	(0.871)	118572	10.0000	9.6295
56 1,1,2-Trichloroethane	97	6.672	6.672	(0.880)	103817	10.0000	9.9574
57 Tetrachloroethene	164	6.818	6.818	(0.899)	301713	10.0000	10.835
58 1,3-Dichloropropane	76	6.824	6.824	(0.900)	200948	10.0000	10.149
59 2-Hexanone	43	6.903	6.903	(0.910)	162590	40.0000	36.707
60 Chlorodibromomethane	129	7.031	7.031	(0.927)	135271	10.0000	10.315
61 1,2-Dibromoethane	107	7.134	7.134	(0.941)	100543	10.0000	10.243
62 Chlorobenzene (spcc)	112	7.609	7.609	(1.003)	699657	10.0000	10.312

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Report Date: 15-Feb-2006 18:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63	1,1,1,2-Tetrachloroethane	131	7.682	7.682	(1.013)	231288	10.0000	10.504
64	Ethylbenzene (ccc)	106	7.724	7.724	(1.018)	489347	10.0000	10.490
65	m&p-Xylene	106	7.840	7.840	(1.034)	1160230	20.0000	21.034
66	o-Xylene	106	8.254	8.254	(1.088)	496982	10.0000	10.523
67	Styrene	104	8.266	8.266	(1.090)	697232	10.0000	10.172
68	Bromoform (spcc)	173	8.461	8.461	(1.115)	62132	10.0000	10.120
69	Isopropylbenzene	105	8.692	8.692	(1.146)	1602692	10.0000	10.549
70	*cis-1,4-dichloro-2-butene	88	8.753	8.753	(1.154)	28202	10.0000	9.7747
71	Bromobenzene	156	9.069	9.069	(1.196)	216384	10.0000	10.172
72	1,1,2,2-Tetrachloroethane(sp)	83	9.057	9.057	(1.194)	78797	10.0000	8.9724
73	1,2,3-Trichloropropane	110	9.112	9.112	(0.848)	22703	10.0000	9.0258
74	*trans-1,4-dichloro-2-butene	53	9.142	9.142	(0.851)	25251	10.0000	9.4964
75	n-Propylbenzene	91	9.245	9.245	(0.860)	1887276	10.0000	10.460
76	2-Chlorotoluene	91	9.355	9.355	(0.870)	949315	10.0000	10.246
77	1,3,5-Trimethylbenzene	105	9.519	9.519	(0.886)	1027634	10.0000	10.362
78	4-Chlorotoluene	91	9.519	9.519	(0.886)	1007232	10.0000	10.295
79	tert-Butylbenzene	119	10.036	10.036	(0.934)	1084463	10.0000	10.627
80	1,2,4-Trimethylbenzene	105	10.127	10.127	(0.942)	871136	10.0000	10.078
81	sec-Butylbenzene	105	10.438	10.438	(0.971)	1575423	10.0000	10.569
82	1,3-Dichlorobenzene	146	10.614	10.614	(0.988)	448007	10.0000	10.228
83	p-Isopropyltoluene	119	10.736	10.736	(0.999)	1254448	10.0000	10.490
84	1,4-Dichlorobenzene	146	10.791	10.791	(1.004)	401751	10.0000	10.061
85	1,2-Dichlorobenzene	146	11.429	11.429	(1.063)	319517	10.0000	10.122
86	n-Butylbenzene	91	11.466	11.466	(1.067)	1106194	10.0000	10.380
87	1,2-Dibromo-3-chloropropane	157	12.591	12.591	(1.172)	11736	10.0000	9.5449
88	1,2,4-Trichlorobenzene	180	13.674	13.674	(1.272)	153800	10.0000	9.5535
89	Hexachlorobutadiene	225	13.905	13.905	(1.294)	262439	10.0000	10.280
90	Napthalene	128	13.942	13.942	(1.297)	110108	10.0000	9.3741
91	1,2,3-Trichlorobenzene	180	14.228	14.228	(1.324)	100132	10.0000	9.7127
M 92	*1,4-dichloro-2-butene(total)	53				53454	20.0000	19.271

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Date : 15-FEB-2006 15:51
Client ID: VSTD010
Sample Info: ICCXB153,1,1,3,,VSTD010
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Lab Smp Id: ICCXB154 Client Smp ID: VSTD020
Inj Date : 15-FEB-2006 16:17
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB154,1,1,4,,VSTD020
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 16:17 Cal File: icxb154.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.854	4.853	(1.000)	1346611	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.585	(1.000)	229091	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.749	10.748	(1.000)	240120	10.0000	
$ 4 Dibromofluoromethane	113	4.270	4.269	(0.880)	463866	20.0000	20.273
$ 5 1,2-Dichloroethane-d4	65	4.550	4.555	(0.937)	363496	20.0000	20.459
$ 6 Toluene-d8	98	6.253	6.252	(0.824)	2256149	20.0000	19.935
$ 7 4-Bromofluorobenzene	95	8.881	8.874	(0.826)	615934	20.0000	21.346
M 8 1,2-Dichloroethene (total)	96				1351954	40.0000	42.829
M 9 Xylene (total)	106				3103335	60.0000	58.668
10 Dichlorodifluoromethane	85	1.131	1.136	(0.233)	887355	20.0000	20.989
11 Chloromethane (spcc)	50	1.265	1.264	(0.261)	1280237	20.0000	20.592
12 Vinyl Chloride (ccc)	62	1.344	1.343	(0.277)	1038280	20.0000	21.730
13 *1,3-Butadiene	39	1.374	1.373	(0.283)	889863	20.0000	22.378
14 Bromomethane	94	1.593	1.592	(0.328)	390772	20.0000	21.707
15 Chloroethane	64	1.672	1.678	(0.345)	539685	20.0000	20.198

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Report Date: 15-Feb-2006 18:11

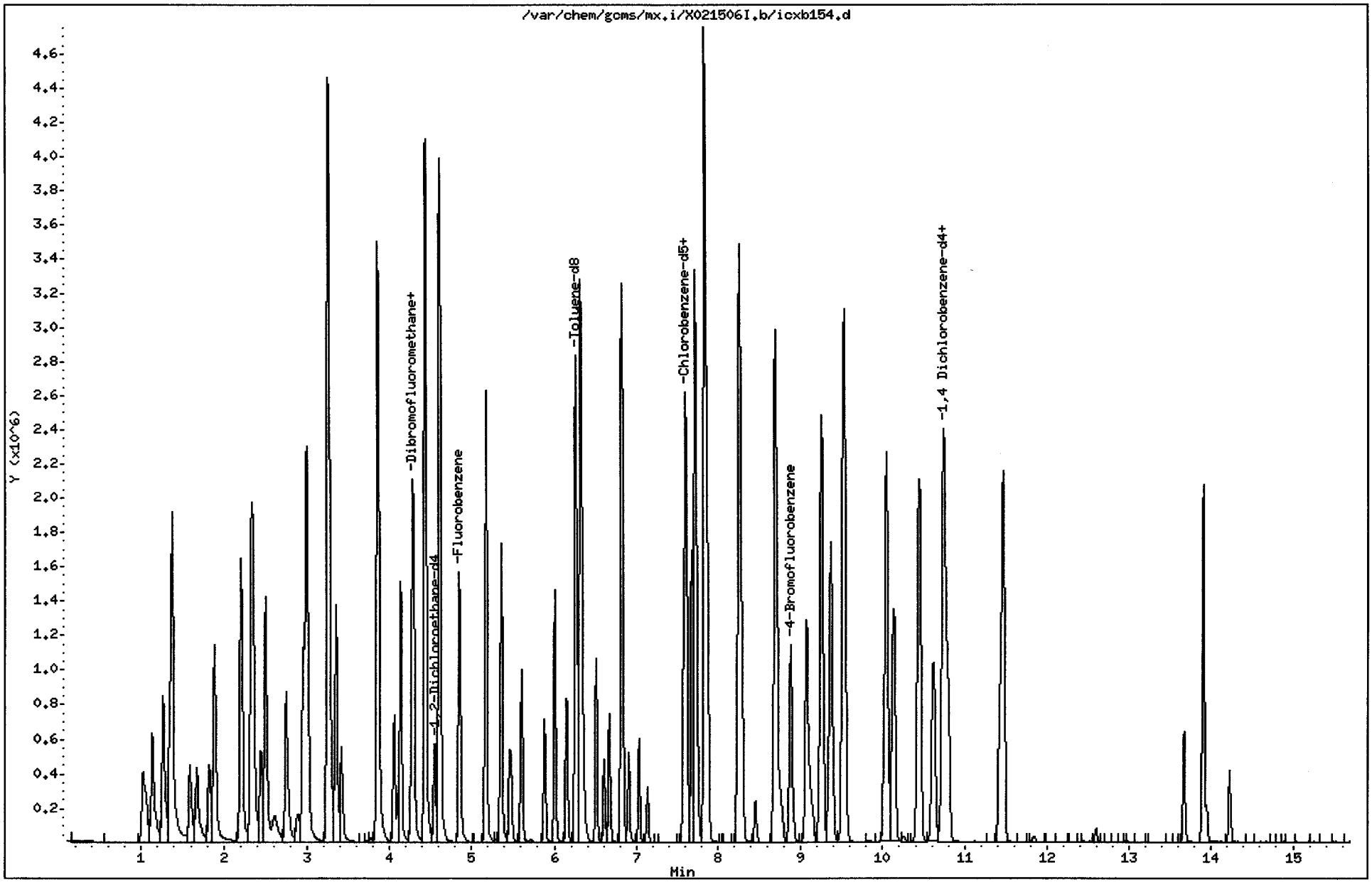
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.830	1.830	(0.377)	481498	20.0000	20.866
17 Trichlorofluoromethane	101	1.891	1.890	(0.390)	1103380	20.0000	21.924
18 *2-Chloropropane	43	2.208	2.213	(0.455)	1701627	20.0000	20.739
19 1,1-Dichloroethene (ccc)	96	2.329	2.335	(0.480)	562660	20.0000	21.195
20 *Freon 113	151	2.354	2.353	(0.485)	500538	20.0000	22.404
21 Acetone	43	2.378	2.377	(0.490)	157211	80.0000	82.944
22 *Iodomethane	142	2.445	2.450	(0.504)	702112	20.0000	21.012
23 Carbon Disulfide	76	2.500	2.499	(0.515)	2183581	20.0000	21.711
24 *2-propanol	45	2.530	2.529	(0.521)	41939	200.000	138.21
25 *Acetonitrile	40	2.615	2.614	(0.539)	146123	400.000	327.70
26 Methylene Chloride	84	2.749	2.754	(0.566)	419483	20.0000	20.178
27 *t-butanol	59	2.895	2.894	(0.596)	278246	1000.00	1029.2
28 *Acrylonitrile	53	2.962	2.961	(0.610)	1096344	400.000	417.74
29 trans-1,2-Dichloroethene	96	2.992	2.998	(0.616)	711103	20.0000	21.929
30 *MTBE	73	3.011	3.010	(0.620)	621919	20.0000	21.726
31 *Hexane	57	3.254	3.259	(0.670)	2769412	40.0000	41.981
32 1,1-Dichloroethane (spcc)	63	3.351	3.357	(0.690)	1361605	20.0000	21.334
33 *Vinyl Acetate	86	3.418	3.417	(0.704)	64322	40.0000	41.944
34 2,2-Dichloropropane	77	3.856	3.855	(0.794)	1232410	20.0000	20.954
35 cis 1,2-Dichloroethene	96	3.856	3.855	(0.794)	640850	20.0000	20.900
36 2-Butanone	43	3.874	3.874	(0.798)	238061	80.0000	81.368
37 Bromochloromethane	128	4.057	4.056	(0.836)	168242	20.0000	21.032
38 *THF	42	4.106	4.105	(0.846)	147437	80.0000	82.226
39 Chloroform (ccc)	83	4.136	4.135	(0.852)	1062145	20.0000	20.960
40 1,1,1-Trichloroethane	97	4.294	4.293	(0.885)	1186487	20.0000	21.000
41 Carbon Tetrachloride	117	4.440	4.439	(0.915)	1040304	20.0000	21.917
42 1,1-Dichloropropene	75	4.434	4.433	(0.914)	1128467	20.0000	21.448
43 Benzene	78	4.611	4.610	(0.950)	2763214	20.0000	20.072
44 1,2-Dichloroethane	62	4.617	4.616	(0.951)	475172	20.0000	21.050
45 Trichloroethene	130	5.176	5.176	(1.066)	767146	20.0000	21.273
46 1,2-Dichloropropane (ccc)	63	5.359	5.358	(1.104)	596245	20.0000	20.971
47 *Methyl Methacrylate	41	5.481	5.480	(1.129)	178765	20.0000	20.134
48 Dibromomethane	93	5.462	5.461	(1.125)	160984	20.0000	21.026
49 Bromodichloromethane	83	5.608	5.607	(1.155)	592611	20.0000	20.875
50 *2-Chloroethylvinylether	63	5.882	5.881	(1.212)	262134	40.0000	43.989
51 cis-1,3-Dichloropropene	75	6.004	6.003	(1.237)	700572	20.0000	21.266
52 4-Methyl-2-pentanone	43	6.144	6.143	(1.266)	579933	80.0000	82.639
53 Toluene (ccc)	91	6.314	6.313	(0.832)	2765023	20.0000	20.416
54 trans-1,3-Dichloropropene	75	6.503	6.502	(0.857)	490423	20.0000	20.981
55 *Ethyl Methacrylate	69	6.606	6.605	(0.871)	243481	20.0000	19.566
56 1,1,2-Trichloroethane	97	6.667	6.672	(0.879)	215301	20.0000	20.289
57 Tetrachloroethene	164	6.819	6.818	(0.899)	609011	20.0000	21.254
58 1,3-Dichloropropane	76	6.825	6.824	(0.900)	422598	20.0000	20.848
59 2-Hexanone	43	6.904	6.903	(0.910)	355464	80.0000	79.420
60 Chlorodibromomethane	129	7.032	7.031	(0.927)	283177	20.0000	20.973
61 1,2-Dibromoethane	107	7.135	7.134	(0.941)	206363	20.0000	20.562
62 Chlorobenzene (spcc)	112	7.610	7.609	(1.003)	1422185	20.0000	20.552

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Report Date: 15-Feb-2006 18:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63 1,1,1,2-Tetrachloroethane	131	7.683	7.682	(1.013)	478134	20.0000	21.134
64 Ethylbenzene (ccc)	106	7.725	7.724	(1.018)	972444	20.0000	20.463
65 m&p-Xylene	106	7.841	7.840	(1.034)	2171830	40.0000	39.093
66 o-Xylene	106	8.261	8.254	(1.089)	931504	20.0000	19.576
67 Styrene	104	8.267	8.266	(1.090)	1321706	20.0000	19.222
68 Bromoform (spcc)	173	8.461	8.461	(1.115)	130144	20.0000	20.687
69 Isopropylbenzene	105	8.693	8.692	(1.146)	3086949	20.0000	20.048
70 *cis-1,4-dichloro-2-butene	88	8.753	8.753	(1.154)	59333	20.0000	20.226
71 Bromobenzene	156	9.076	9.069	(1.196)	440671	20.0000	20.359
72 1,1,2,2-Tetrachloroethane(sp)	83	9.064	9.057	(1.195)	163795	20.0000	18.743
73 1,2,3-Trichloropropane	110	9.118	9.112	(0.848)	48148	20.0000	20.546
74 *trans-1,4-dichloro-2-butene	53	9.143	9.142	(0.851)	50933	20.0000	20.815
75 n-Propylbenzene	91	9.252	9.245	(0.861)	3362768	20.0000	20.150
76 2-Chlorotoluene	91	9.362	9.355	(0.871)	1751971	20.0000	20.467
77 1,3,5-Trimethylbenzene	105	9.520	9.519	(0.886)	1598365	20.0000	17.912
78 4-Chlorotoluene	91	9.526	9.519	(0.886)	1774681	20.0000	19.641
79 tert-Butylbenzene	119	10.043	10.036	(0.934)	1920796	20.0000	20.309
80 1,2,4-Trimethylbenzene	105	10.128	10.127	(0.942)	1348951	20.0000	17.444
81 sec-Butylbenzene	105	10.445	10.438	(0.972)	2739957	20.0000	19.928
82 1,3-Dichlorobenzene	146	10.621	10.614	(0.988)	815600	20.0000	20.134
83 p-Isopropyltoluene	119	10.743	10.736	(0.999)	2041818	20.0000	18.777
84 1,4-Dichlorobenzene	146	10.791	10.791	(1.004)	725358	20.0000	19.740
85 1,2-Dichlorobenzene	146	11.436	11.429	(1.064)	579948	20.0000	19.920
86 n-Butylbenzene	91	11.467	11.466	(1.067)	1687246	20.0000	17.652
87 1,2-Dibromo-3-chloropropane	157	12.592	12.591	(1.171)	26310	20.0000	22.292
88 1,2,4-Trichlorobenzene	180	13.675	13.674	(1.272)	232406	20.0000	16.539
89 Hexachlorobutadiene	225	13.906	13.905	(1.294)	474952	20.0000	20.113
90 Napthalene	128	13.949	13.942	(1.298)	164341	20.0000	16.132
91 1,2,3-Trichlorobenzene	180	14.229	14.228	(1.324)	149088	20.0000	16.562
M 92 *1,4-dichloro-2-butene(total)	53				110266	40.0000	41.041

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Date : 15-FEB-2006 16:17
Client ID: VSTD020
Sample Info: ICCXB154,1,1,4,,VSTD020
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Lab Smp Id: ICCXB155 Client Smp ID: VSTD040
Inj Date : 15-FEB-2006 16:43
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB155,1,1,5,,VSTD040
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 16:43 Cal File: icxb155.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.858	4.853	(1.000)	1322797	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.585	(1.000)	229301	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.753	10.748	(1.000)	263557	10.0000	
$ 4 Dibromofluoromethane	113	4.274	4.269	(0.880)	901900	40.0000	40.102
$ 5 1,2-Dichloroethane-d4	65	4.554	4.555	(0.937)	713692	40.0000	40.711
$ 6 Toluene-d8	98	6.257	6.252	(0.825)	4328616	40.0000	38.557
$ 7 4-Bromofluorobenzene	95	8.879	8.874	(0.826)	1182308	40.0000	37.835
M 8 1,2-Dichloroethene (total)	96				2628861	80.0000	83.938
M 9 Xylene (total)	106				6467676	120.000	121.77
10 Dichlorodifluoromethane	85	1.135	1.136	(0.234)	1709929	40.0000	40.934
11 Chloromethane (spcc)	50	1.263	1.264	(0.260)	2551316	40.0000	41.468
12 Vinyl Chloride (ccc)	62	1.342	1.343	(0.276)	2069489	40.0000	43.353
13 *1,3-Butadiene	39	1.372	1.373	(0.282)	1780250	40.0000	44.541
14 Bromomethane	94	1.591	1.592	(0.328)	822983	40.0000	45.065
15 Chloroethane	64	1.676	1.678	(0.345)	1089769	40.0000	41.207

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Report Date: 15-Feb-2006 18:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.828	1.830	(0.376)	960502	40.0000	41.876
17 Trichlorofluoromethane	101	1.889	1.890	(0.389)	2189008	40.0000	43.503
18 *2-Chloropropane	43	2.212	2.213	(0.455)	3428569	40.0000	42.006
19 1,1-Dichloroethene (ccc)	96	2.333	2.335	(0.480)	1142846	40.0000	43.137
20 *Freon 113	151	2.352	2.353	(0.484)	973762	40.0000	43.577
21 Acetone	43	2.382	2.377	(0.490)	289865	160.000	156.53
22 *Iodomethane	142	2.449	2.450	(0.504)	1392269	40.0000	41.909
23 Carbon Disulfide	76	2.504	2.499	(0.515)	4348134	40.0000	43.288
24 *2-propanol	45	2.546	2.529	(0.524)	85359	400.000	303.61
25 *Acetonitrile	40	2.619	2.614	(0.539)	296761	800.000	698.92
26 Methylene Chloride	84	2.753	2.754	(0.567)	824167	40.0000	40.286
27 *t-butanol	59	2.899	2.894	(0.597)	534916	2000.00	2011.4
28 *Acrylonitrile	53	2.966	2.961	(0.611)	2152645	800.000	827.75
29 trans-1,2-Dichloroethene	96	2.997	2.998	(0.617)	1382272	40.0000	42.789
30 *MTBE	73	3.015	3.010	(0.621)	1186533	40.0000	41.814
31 *Hexane	57	3.258	3.259	(0.671)	5218345	80.0000	80.421(A)
32 1,1-Dichloroethane (spcc)	63	3.355	3.357	(0.691)	2718016	40.0000	42.757
33 *Vinyl Acetate	86	3.422	3.417	(0.704)	120923	80.0000	80.217
34 2,2-Dichloropropane	77	3.860	3.855	(0.795)	2418408	40.0000	41.538
35 cis 1,2-Dichloroethene	96	3.860	3.855	(0.795)	1246589	40.0000	41.148
36 2-Butanone	43	3.879	3.874	(0.798)	468520	160.000	162.41
37 Bromochloromethane	128	4.061	4.056	(0.836)	328887	40.0000	41.469
38 *THF	42	4.110	4.105	(0.846)	288805	160.000	163.16
39 Chloroform (ccc)	83	4.140	4.135	(0.852)	2089712	40.0000	41.636
40 1,1,1-Trichloroethane	97	4.292	4.293	(0.884)	2371155	40.0000	42.245
41 Carbon Tetrachloride	117	4.444	4.439	(0.915)	2041068	40.0000	43.098
42 1,1-Dichloropropene	75	4.438	4.433	(0.914)	2221803	40.0000	42.459
43 Benzene	78	4.615	4.610	(0.950)	5387525	40.0000	39.867
44 1,2-Dichloroethane	62	4.621	4.616	(0.951)	944405	40.0000	42.135
45 Trichloroethene	130	5.180	5.176	(1.066)	1515897	40.0000	42.300
46 1,2-Dichloropropane (ccc)	63	5.363	5.358	(1.104)	1171943	40.0000	41.621
47 *Methyl Methacrylate	41	5.485	5.480	(1.129)	351538	40.0000	40.245
48 Dibromomethane	93	5.460	5.461	(1.124)	314025	40.0000	41.391
49 Bromodichloromethane	83	5.606	5.607	(1.154)	1164166	40.0000	41.385
50 *2-Chloroethylvinylether	63	5.880	5.881	(1.210)	511887	80.0000	85.849
51 cis-1,3-Dichloropropene	75	6.008	6.003	(1.237)	1379314	40.0000	42.163
52 4-Methyl-2-pentanone	43	6.148	6.143	(1.265)	1131068	160.000	163.38
53 Toluene (ccc)	91	6.318	6.313	(0.833)	5373667	40.0000	39.701
54 trans-1,3-Dichloropropene	75	6.507	6.502	(0.858)	957518	40.0000	40.769
55 *Ethyl Methacrylate	69	6.604	6.605	(0.871)	471585	40.0000	38.271
56 1,1,2-Trichloroethane	97	6.671	6.672	(0.880)	419429	40.0000	39.590
57 Tetrachloroethene	164	6.823	6.818	(0.900)	1194359	40.0000	41.361
58 1,3-Dichloropropane	76	6.823	6.824	(0.900)	809816	40.0000	39.929
59 2-Hexanone	43	6.908	6.903	(0.911)	700110	160.000	157.01
60 Chlorodibromomethane	129	7.036	7.031	(0.928)	549354	40.0000	40.518
61 1,2-Dibromoethane	107	7.139	7.134	(0.941)	398109	40.0000	39.704
62 Chlorobenzene (spcc)	112	7.614	7.609	(1.004)	2766917	40.0000	39.956

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Report Date: 15-Feb-2006 18:11

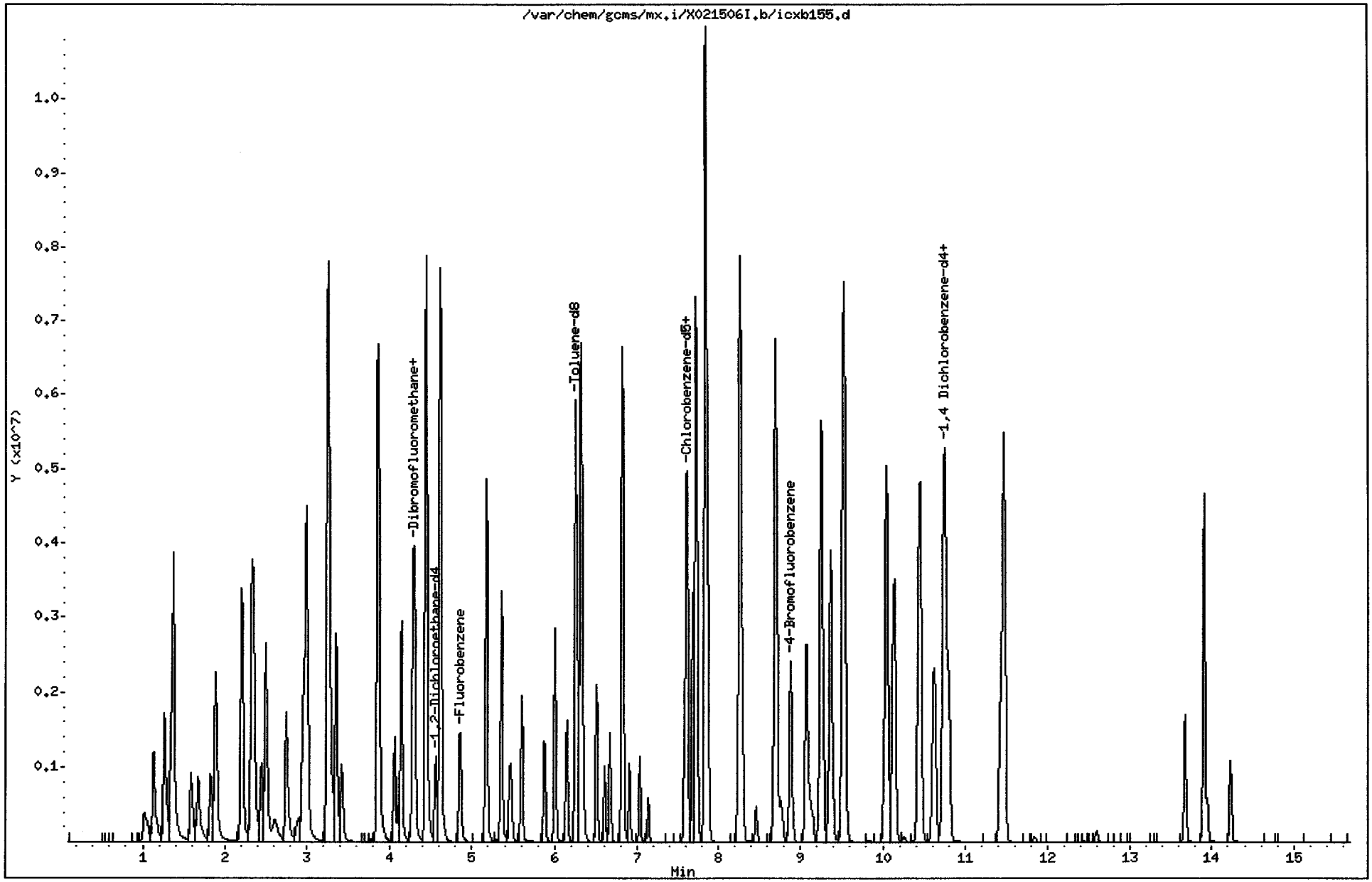
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 1,1,1,2-Tetrachloroethane	131	7.687	7.682	(1.014)	920720	40.0000	40.548
	64 Ethylbenzene (ccc)	106	7.723	7.724	(1.018)	1923008	40.0000	40.356
	65 m&p-Xylene	106	7.845	7.840	(1.034)	4534139	80.0000	81.279
	66 o-Xylene	106	8.259	8.254	(1.089)	1933537	40.0000	40.496
	67 Styrene	104	8.271	8.266	(1.091)	2723035	40.0000	39.637
	68 Bromoform (spcc)	173	8.459	8.461	(1.116)	258362	40.0000	40.820
	69 Isopropylbenzene	105	8.697	8.692	(1.147)	6197706	40.0000	40.178
	70 *cis-1,4-dichloro-2-butene	88	8.758	8.753	(1.155)	116457	40.0000	39.729
	71 Bromobenzene	156	9.074	9.069	(1.197)	864572	40.0000	39.923
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.068	9.057	(1.196)	313504	40.0000	36.603
	73 1,2,3-Trichloropropane	110	9.116	9.112	(0.848)	90063	40.0000	35.909
	74 *trans-1,4-dichloro-2-butene	53	9.147	9.142	(0.851)	100319	40.0000	37.854
	75 n-Propylbenzene	91	9.250	9.245	(0.860)	7325039	40.0000	39.992
	76 2-Chlorotoluene	91	9.360	9.355	(0.870)	3713220	40.0000	39.600
	77 1,3,5-Trimethylbenzene	105	9.518	9.519	(0.885)	3986873	40.0000	40.586
	78 4-Chlorotoluene	91	9.524	9.519	(0.886)	3898448	40.0000	39.423
	79 tert-Butylbenzene	119	10.041	10.036	(0.934)	4218164	40.0000	40.527
	80 1,2,4-Trimethylbenzene	105	10.132	10.127	(0.942)	3451562	40.0000	40.552
	81 sec-Butylbenzene	105	10.449	10.438	(0.972)	6114718	40.0000	40.431
	82 1,3-Dichlorobenzene	146	10.619	10.614	(0.988)	1777838	40.0000	39.988
	83 p-Isopropyltoluene	119	10.747	10.736	(0.999)	4965299	40.0000	41.326
	84 1,4-Dichlorobenzene	146	10.796	10.791	(1.004)	1607594	40.0000	39.882
	85 1,2-Dichlorobenzene	146	11.434	11.429	(1.063)	1269579	40.0000	39.775
	86 n-Butylbenzene	91	11.471	11.466	(1.067)	4347217	40.0000	41.190
	87 1,2-Dibromo-3-chloropropane	157	12.596	12.591	(1.171)	52685	40.0000	40.534
	88 1,2,4-Trichlorobenzene	180	13.673	13.674	(1.272)	638090	40.0000	41.089
	89 Hexachlorobutadiene	225	13.904	13.905	(1.293)	1059031	40.0000	40.684
	90 Napthalene	128	13.947	13.942	(1.297)	461083	40.0000	40.982
	91 1,2,3-Trichlorobenzene	180	14.233	14.228	(1.324)	416183	40.0000	41.679
M	92 *1,4-dichloro-2-butene(total)	53				216777	80.0000	77.583

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Date : 15-FEB-2006 16:43
Client ID: VSTD040
Sample Info: ICCXB155,1,1,5,,VSTD040
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Lab Smp Id: ICCXB156 Client Smp ID: VSTD080
Inj Date : 15-FEB-2006 17:10
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB156,1,1,6,,VSTD080
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 17:10 Cal File: icxb156.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.857	4.853	(1.000)	1333610	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.585	(1.000)	232080	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.752	10.748	(1.000)	267931	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.269	(0.880)	229417	80.0000	10.118
$ 5 1,2-Dichloroethane-d4	65	4.559	4.555	(0.939)	181935	80.0000	10.294
$ 6 Toluene-d8	98	6.256	6.252	(0.825)	1130920	80.0000	9.9529
$ 7 4-Bromofluorobenzene	95	8.878	8.874	(0.826)	313564	80.0000	9.8705
M 8 1,2-Dichloroethene (total)	96				5028304	160.000	159.45
M 9 Xylene (total)	106				12601648	240.000	235.31
10 Dichlorodifluoromethane	85	1.134	1.136	(0.233)	3418440	80.0000	80.974(A)
11 Chloromethane (spcc)	50	1.262	1.264	(0.260)	5020043	80.0000	80.798(A)
12 Vinyl Chloride (ccc)	62	1.347	1.343	(0.277)	4048762	80.0000	83.512(A)
13 *1,3-Butadiene	39	1.371	1.373	(0.282)	3457611	80.0000	84.926(A)
14 Bromomethane	94	1.590	1.592	(0.327)	1654493	80.0000	88.054(A)
15 Chloroethane	64	1.675	1.678	(0.345)	2116649	80.0000	79.489

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Report Date: 15-Feb-2006 18:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.827	1.830	(0.376)	1874774	80.0000	80.893(A)
17 Trichlorofluoromethane	101	1.888	1.890	(0.389)	4303478	80.0000	84.106(A)
18 *2-Chloropropane	43	2.211	2.213	(0.455)	6708941	80.0000	81.271(A)
19 1,1-Dichloroethene (ccc)	96	2.332	2.335	(0.480)	2213545	80.0000	82.451(A)
20 *Freon 113	151	2.357	2.353	(0.485)	1960520	80.0000	85.946(A)
21 Acetone	43	2.381	2.377	(0.490)	639444	320.000	338.54(A)
22 *Iodomethane	142	2.448	2.450	(0.504)	2747000	80.0000	81.675(A)
23 Carbon Disulfide	76	2.503	2.499	(0.515)	8307531	80.0000	81.738(A)
24 *2-propanol	45	2.539	2.529	(0.523)	191082	800.000	692.29
25 *Acetonitrile	40	2.618	2.614	(0.539)	613949	1600.00	1459.4
26 Methylene Chloride	84	2.752	2.754	(0.567)	1646788	80.0000	79.869
27 *t-butanol	59	2.898	2.894	(0.597)	1233798	4000.00	4489.1(A)
28 *Acrylonitrile	53	2.965	2.961	(0.610)	4464024	1600.00	1684.6(A)
29 trans-1,2-Dichloroethene	96	2.995	2.998	(0.617)	2590482	80.0000	79.605
30 *MTBE	73	3.014	3.010	(0.620)	2381313	80.0000	82.760(A)
31 *Hexane	57	3.263	3.259	(0.672)	10701772	160.000	162.98(A)
32 1,1-Dichloroethane (spcc)	63	3.354	3.357	(0.691)	5393785	80.0000	83.540(A)
33 *Vinyl Acetate	86	3.421	3.417	(0.704)	240528	160.000	158.55
34 2,2-Dichloropropane	77	3.859	3.855	(0.795)	4606701	80.0000	78.694
35 cis 1,2-Dichloroethene	96	3.859	3.855	(0.795)	2437822	80.0000	79.843
36 2-Butanone	43	3.878	3.874	(0.798)	1003334	320.000	340.54(A)
37 Bromochloromethane	128	4.060	4.056	(0.836)	655351	80.0000	81.629(A)
38 *THF	42	4.109	4.105	(0.846)	611178	320.000	338.52(A)
39 Chloroform (ccc)	83	4.139	4.135	(0.852)	4096887	80.0000	80.827(A)
40 1,1,1-Trichloroethane	97	4.297	4.293	(0.885)	4571767	80.0000	80.677(A)
41 Carbon Tetrachloride	117	4.443	4.439	(0.915)	3890628	80.0000	81.270(A)
42 1,1-Dichloropropene	75	4.443	4.433	(0.915)	4245724	80.0000	80.410(A)
43 Benzene	78	4.614	4.610	(0.950)	10238707	80.0000	75.807
44 1,2-Dichloroethane	62	4.626	4.616	(0.952)	1881261	80.0000	82.772(A)
45 Trichloroethene	130	5.179	5.176	(1.066)	2952716	80.0000	81.475(A)
46 1,2-Dichloropropane (ccc)	63	5.362	5.358	(1.104)	2329636	80.0000	81.764(A)
47 *Methyl Methacrylate	41	5.484	5.480	(1.129)	735977	80.0000	82.955(A)
48 Dibromomethane	93	5.459	5.461	(1.124)	638014	80.0000	82.824(A)
49 Bromodichloromethane	83	5.611	5.607	(1.155)	2314461	80.0000	81.337(A)
50 *2-Chloroethylvinylether	63	5.885	5.881	(1.212)	1067315	160.000	174.36(A)
51 cis-1,3-Dichloropropene	75	6.007	6.003	(1.237)	2726342	80.0000	82.272(A)
52 4-Methyl-2-pentanone	43	6.153	6.143	(1.267)	2405001	320.000	340.84(A)
53 Toluene (ccc)	91	6.317	6.313	(0.833)	10371072	80.0000	76.290
54 trans-1,3-Dichloropropene	75	6.506	6.502	(0.858)	1932628	80.0000	81.113(A)
55 *Ethyl Methacrylate	69	6.609	6.605	(0.872)	993869	80.0000	79.742
56 1,1,2-Trichloroethane	97	6.670	6.672	(0.880)	845880	80.0000	79.070
57 Tetrachloroethene	164	6.822	6.818	(0.900)	2328624	80.0000	79.722
58 1,3-Dichloropropane	76	6.822	6.824	(0.900)	1618156	80.0000	78.995
59 2-Hexanone	43	6.907	6.903	(0.911)	1501218	320.000	330.46(A)
60 Chlorodibromomethane	129	7.035	7.031	(0.928)	1121631	80.0000	81.442(A)
61 1,2-Dibromoethane	107	7.138	7.134	(0.941)	816288	80.0000	80.362(A)
62 Chlorobenzene (spcc)	112	7.613	7.609	(1.004)	5437173	80.0000	77.914

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Report Date: 15-Feb-2006 18:11

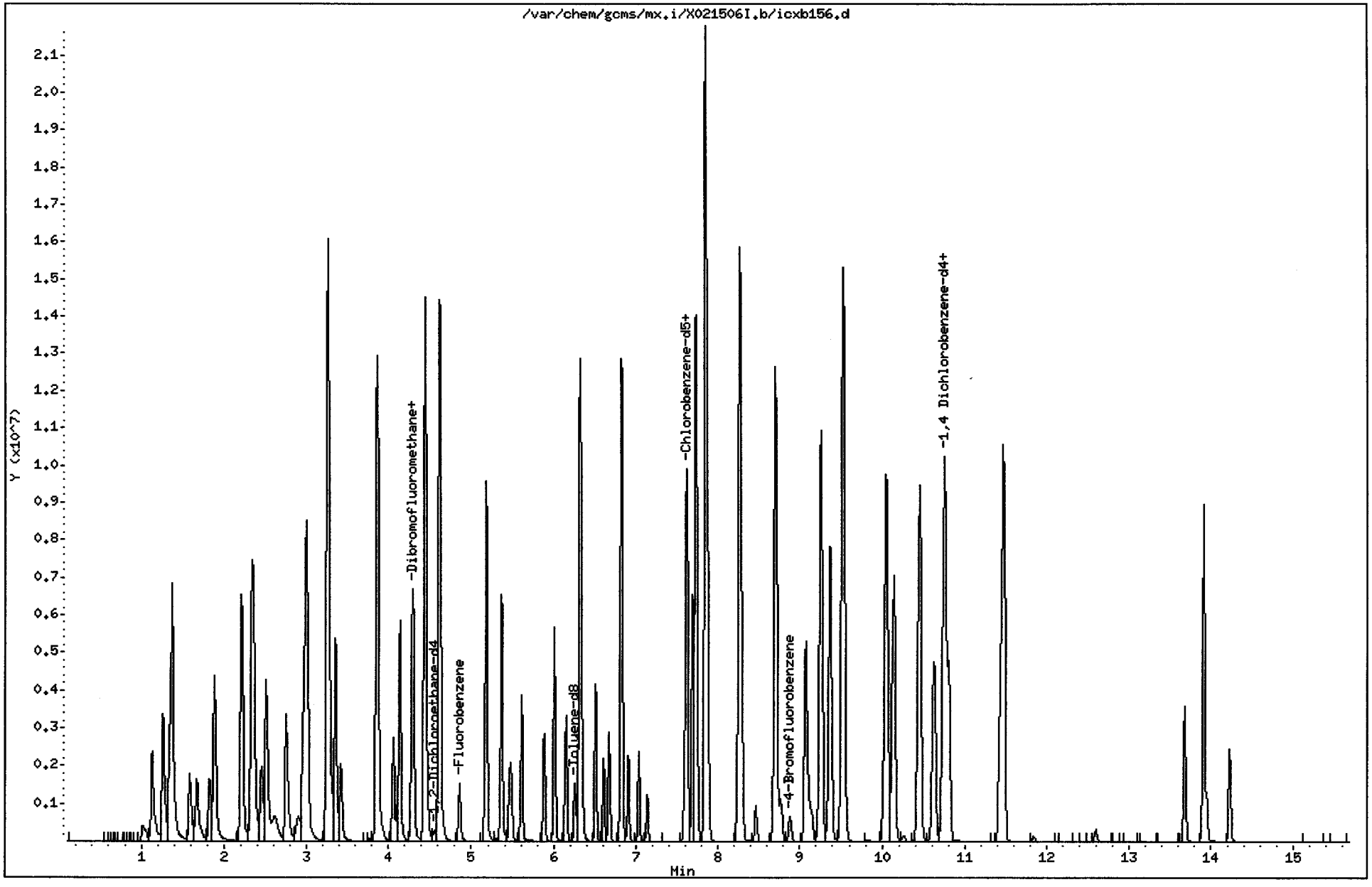
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63	1,1,1,2-Tetrachloroethane	131	7.686	7.682	(1.014)	1830283	80.0000	79.692
64	Ethylbenzene (ccc)	106	7.728	7.724	(1.019)	3727503	80.0000	77.665
65	m&p-Xylene	106	7.850	7.840	(1.035)	8794541	160.000	156.35
66	o-Xylene	106	8.264	8.254	(1.090)	3807106	80.0000	78.952
67	Styrene	104	8.276	8.266	(1.091)	5333289	80.0000	77.157
68	Bromoform (spcc)	173	8.464	8.461	(1.116)	524160	80.0000	81.514(A)
69	Isopropylbenzene	105	8.702	8.692	(1.148)	11665282	80.0000	75.428
70	*cis-1,4-dichloro-2-butene	88	8.756	8.753	(1.155)	233817	80.0000	79.007
71	Bromobenzene	156	9.073	9.069	(1.197)	1713263	80.0000	78.422
72	1,1,2,2-Tetrachloroethane(sp)	83	9.067	9.057	(1.196)	619628	80.0000	72.770
73	1,2,3-Trichloropropane	110	9.121	9.112	(0.848)	180712	80.0000	72.249
74	*trans-1,4-dichloro-2-butene	53	9.152	9.142	(0.851)	199009	80.0000	74.822
75	n-Propylbenzene	91	9.255	9.245	(0.861)	13835805	80.0000	75.068
76	2-Chlorotoluene	91	9.365	9.355	(0.871)	7212059	80.0000	76.250
77	1,3,5-Trimethylbenzene	105	9.523	9.519	(0.886)	7834741	80.0000	78.673
78	4-Chlorotoluene	91	9.529	9.519	(0.886)	7598454	80.0000	76.185
79	tert-Butylbenzene	119	10.046	10.036	(0.934)	8090421	80.0000	76.947
80	1,2,4-Trimethylbenzene	105	10.137	10.127	(0.943)	6876400	80.0000	79.547
81	sec-Butylbenzene	105	10.454	10.438	(0.972)	11720433	80.0000	76.748
82	1,3-Dichlorobenzene	146	10.624	10.614	(0.988)	3585060	80.0000	79.417
83	p-Isopropyltoluene	119	10.752	10.736	(1.000)	9592389	80.0000	78.740
84	1,4-Dichlorobenzene	146	10.801	10.791	(1.005)	3225167	80.0000	78.889
85	1,2-Dichlorobenzene	146	11.439	11.429	(1.064)	2570935	80.0000	79.339
86	n-Butylbenzene	91	11.476	11.466	(1.067)	8496252	80.0000	79.303
87	1,2-Dibromo-3-chloropropane	157	12.595	12.591	(1.171)	112077	80.0000	83.976(A)
88	1,2,4-Trichlorobenzene	180	13.678	13.674	(1.272)	1351997	80.0000	84.645(A)
89	Hexachlorobutadiene	225	13.909	13.905	(1.294)	2066459	80.0000	78.402
90	Napthalene	128	13.946	13.942	(1.297)	1005122	80.0000	86.460(A)
91	1,2,3-Trichlorobenzene	180	14.232	14.228	(1.324)	900669	80.0000	87.142(A)
M 92	*1,4-dichloro-2-butene(total)	53				432826	160.000	153.83

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Date : 15-FEB-2006 17:10
Client ID: VSTD080
Sample Info: ICCXB156,1,1,6,,VSTD080
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Lab Smp Id: VCCXB15A
Inj Date : 15-FEB-2006 18:03
Operator : 22980 Inst ID: mx.i
Smp Info : VCCXB15A,1,3,,2ndSource
Misc Info : X021506I,8260B_LM,ss.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:20 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 17:10 ✓ Cal File: icxb156.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	4.855	4.853	(1.000)	1289539	10.0000	
* 2 Chlorobenzene-d5	119	7.580	7.585	(1.000)	220789	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.744	10.748	(1.000)	259867	10.0000	
$ 5 1,2-Dichloroethane-d4	65	4.551	4.555	(0.937)	168796	9.87685	9.8768
$ 4 Dibromofluoromethane	113	4.271	4.269	(0.880)	217707	9.92971	9.9297
$ 6 Toluene-d8	98	6.254	6.252	(0.825)	1087101	10.0565	10.056
$ 7 4-Bromofluorobenzene	95	8.876	8.874	(0.826)	301450	9.78371	9.7837
10 Dichlorodifluoromethane	85	1.132	1.136	(0.233)	447120	10.9530	10.953
11 Chloromethane (spcc)	50	1.266	1.264	(0.261)	704099	11.7199	11.720
12 Vinyl Chloride (ccc)	62	1.345	1.343	(0.277)	547622	11.6816	11.682
14 Bromomethane	94	1.594	1.592	(0.328)	222001	12.2189	12.219
15 Chloroethane	64	1.679	1.678	(0.346)	283470	11.0093	11.009
17 Trichlorofluoromethane	101	1.892	1.890	(0.390)	539511	10.5197	10.520
19 1,1-Dichloroethene (ccc)	96	2.330	2.335	(0.480)	304865	11.7439	11.744

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	21 Acetone	43	2.385	2.377	(0.491)	32252	17.6588	17.659
	22 *Iodomethane	142	2.446	2.450	(0.504)	746767	22.9619	22.962
	23 Carbon Disulfide	76	2.501	2.499	(0.515)	1997545	20.3255	20.326
	26 Methylene Chloride	84	2.750	2.754	(0.566)	211805	10.6236	10.624
	29 trans-1,2-Dichloroethene	96	2.993	2.998	(0.617)	335784	10.6713	10.671
	30 *MTBE	73	3.012	3.010	(0.620)	282452	10.1518	10.152
	32 1,1-Dichloroethane (spcc)	63	3.352	3.357	(0.690)	691251	11.0721	11.072
	33 *Vinyl Acetate	86	3.419	3.417	(0.704)	30009	20.4577	20.458
	34 2,2-Dichloropropane	77	3.857	3.855	(0.794)	607192	10.7269	10.727
	35 cis 1,2-Dichloroethene	96	3.857	3.855	(0.794)	318970	10.8039	10.804
M	8 1,2-Dichloroethene (total)	96				654755	21.4752	21.475
	36 2-Butanone	43	3.875	3.874	(0.798)	52702	18.4993	18.499
	37 Bromochloromethane	128	4.058	4.056	(0.836)	83491	10.7549	10.755
	39 Chloroform (ccc)	83	4.137	4.135	(0.852)	520649	10.6229	10.623
	40 1,1,1-Trichloroethane	97	4.289	4.293	(0.883)	617075	11.2615	11.262
	41 Carbon Tetrachloride	117	4.441	4.439	(0.915)	532460	11.5025	11.502
	42 1,1-Dichloropropene	75	4.435	4.433	(0.914)	579041	11.3413	11.341
	43 Benzene	78	4.612	4.610	(0.950)	1407561	10.7777	10.778
	44 1,2-Dichloroethane	62	4.618	4.616	(0.951)	239640	10.9041	10.904
	45 Trichloroethene	130	5.177	5.176	(1.066)	395792	11.2944	11.294
	46 1,2-Dichloropropane (ccc)	63	5.360	5.358	(1.104)	299959	10.8876	10.888
	48 Dibromomethane	93	5.457	5.461	(1.124)	77073	10.5390	10.539
	49 Bromodichloromethane	83	5.603	5.607	(1.154)	296087	10.8214	10.821
	51 cis-1,3-Dichloropropene	75	6.005	6.003	(1.237)	355614	11.0980	11.098
	52 4-Methyl-2-pentanone	43	6.145	6.143	(1.266)	139331	20.4214	20.421
	53 Toluene (ccc)	91	6.315	6.313	(0.833)	1394342	10.7813	10.781
	54 trans-1,3-Dichloropropene	75	6.504	6.502	(0.858)	227311	10.0282	10.028
	56 1,1,2-Trichloroethane	97	6.668	6.672	(0.880)	106814	10.4555	10.456
	57 Tetrachloroethene	164	6.820	6.818	(0.900)	308755	11.1109	11.111
	58 1,3-Dichloropropane	76	6.820	6.824	(0.900)	208688	10.7087	10.709
	59 2-Hexanone	43	6.905	6.903	(0.911)	82267	19.0357	19.036
	60 Chlorodibromomethane	129	7.033	7.031	(0.928)	134023	10.5884	10.588
	61 1,2-Dibromoethane	107	7.136	7.134	(0.941)	98423	10.3448	10.345
	62 Chlorobenzene (spcc)	112	7.611	7.609	(1.004)	702906	10.5876	10.588
	64 Ethylbenzene (ccc)	106	7.720	7.724	(1.018)	503303	11.0229	11.023
	63 1,1,1,2-Tetrachloroethane	131	7.684	7.682	(1.014)	230634	10.5555	10.555
	65 m&p-Xylene	106	7.842	7.840	(1.034)	1155263	21.5892	21.589
	66 o-Xylene	106	8.256	8.254	(1.089)	484752	10.5669	10.567
M	9 Xylene (total)	106				1640015	32.1562	32.156
	67 Styrene	104	8.268	8.266	(1.091)	711966	10.8268	10.827
	68 Bromoform (spcc)	173	8.456	8.461	(1.116)	65263	10.6684	10.668
	69 Isopropylbenzene	105	8.694	8.692	(1.147)	1425690	9.68994	9.6899
	71 Bromobenzene	156	9.071	9.069	(1.197)	215785	10.3824	10.382
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.059	9.057	(1.195)	81881	10.0946	10.094
	75 n-Propylbenzene	91	9.247	9.245	(0.861)	1855671	10.3806	10.381
	73 1,2,3-Trichloropropane	110	9.119	9.112	(0.849)	23399	9.64551	9.6455
	76 2-Chlorotoluene	91	9.357	9.355	(0.871)	947503	10.3284	10.328

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77 1,3,5-Trimethylbenzene	105	9.515	9.519	(0.886)	1016692	10.5260	10.526
78 4-Chlorotoluene	91	9.521	9.519	(0.886)	987838	10.2118	10.212
79 tert-Butylbenzene	119	10.038	10.036	(0.934)	1062547	10.4194	10.419
80 1,2,4-Trimethylbenzene	105	10.129	10.127	(0.943)	868090	10.3538	10.354
81 sec-Butylbenzene	105	10.440	10.438	(0.972)	1607895	10.8555	10.856
82 1,3-Dichlorobenzene	146	10.616	10.614	(0.988)	448990	10.2548	10.255
83 p-Isopropyltoluene	119	10.738	10.736	(0.999)	1199751	10.1539	10.154
84 1,4-Dichlorobenzene	146	10.792	10.791	(1.005)	408347	10.2983	10.298
86 n-Butylbenzene	91	11.468	11.466	(1.067)	1088940	10.4794	10.479
85 1,2-Dichlorobenzene	146	11.431	11.429	(1.064)	311316	9.90536	9.9054
87 1,2-Dibromo-3-chloropropane	157	12.593	12.591	(1.172)	11655	9.00416	9.0042
88 1,2,4-Trichlorobenzene	180	13.670	13.674	(1.272)	149339	9.66068	9.6607
89 Hexachlorobutadiene	225	13.907	13.905	(1.294)	279047	10.9157	10.916
90 Napthalene	128	13.944	13.942	(1.298)	106981	9.48809	9.4881
91 1,2,3-Trichlorobenzene	180	14.230	14.228	(1.324)	99445	9.96397	9.9640

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: vccxb15a.d
Lab Smp Id: VCCXB15A
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Misc Info: X021506I,8260B_LM,ss.sub

Calibration Date: 15-FEB-2006
Calibration Time: 15:51

Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1323492	661746	2646984	1289539	-2.57
2 Chlorobenzene-d5	226173	113086	452346	220789	-2.38
3 1,4 Dichlorobenze	260091	130046	520182	259867	-0.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.04
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.06
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.04

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.

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: VCCXB15A
Level: LOW
Data Type: MS DATA
SpikeList File: ssallcmpds.spk
Sublist File: ss.sub
Method File: /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Misc Info: X021506I,8260B_LM,ss.sub

Client SDG: X021506I
Fraction: VOA

Operator: 22980
SampleType: LCS
Quant Type: ISTD

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	10	Dichlorodifluorome	10.000	10.953	109.53	70-130
	11	Chloromethane (spc	10.000	11.720	117.20	70-130
	12	Vinyl Chloride (cc	10.000	11.682	116.82	70-130
	14	Bromomethane	10.000	12.219	122.19	70-130
	15	Chloroethane	10.000	11.009	110.09	70-130
	17	Trichlorofluoromet	10.000	10.520	105.20	70-130
	19	1,1-Dichloroethene	10.000	11.744	117.44	70-130
	23	Carbon Disulfide	20.000	20.326	101.63	70-130
	21	Acetone	20.000	17.659	88.29	70-130
	22	*Iodomethane	20.000	22.962	114.81	70-130
	26	Methylene Chloride	10.000	10.624	106.24	70-130
	29	trans-1,2-Dichloro	10.000	10.671	106.71	70-130
	30	*MTBE	10.000	10.152	101.52	70-130
	32	1,1-Dichloroethane	10.000	11.072	110.72	70-130
	33	*Vinyl Acetate	20.000	20.458	102.29	70-130
	34	2,2-Dichloropropan	10.000	10.727	107.27	70-130
	35	cis 1,2-Dichloroet	10.000	10.804	108.04	70-130
	36	2-Butanone	20.000	18.499	92.50	70-130
M	8	1,2-Dichloroethene	20.000	21.475	107.38	70-130
	37	Bromochloromethane	10.000	10.755	107.55	70-130
	39	Chloroform (ccc)	10.000	10.623	106.23	70-130
	40	1,1,1-Trichloroeth	10.000	11.262	112.62	70-130
	41	Carbon Tetrachlori	10.000	11.502	115.02	70-130
	42	1,1-Dichloropropen	10.000	11.341	113.41	70-130
	43	Benzene	10.000	10.778	107.78	70-130
	44	1,2-Dichloroethane	10.000	10.904	109.04	70-130
	45	Trichloroethene	10.000	11.294	112.94	70-130
	46	1,2-Dichloropropan	10.000	10.888	108.88	70-130
	48	Dibromomethane	10.000	10.539	105.39	70-130
	49	Bromodichlorometha	10.000	10.821	108.21	70-130
	51	cis-1,3-Dichloropr	10.000	11.098	110.98	70-130
	52	4-Methyl-2-pentano	20.000	20.421	102.11	70-130
	53	Toluene (ccc)	10.000	10.781	107.81	70-130

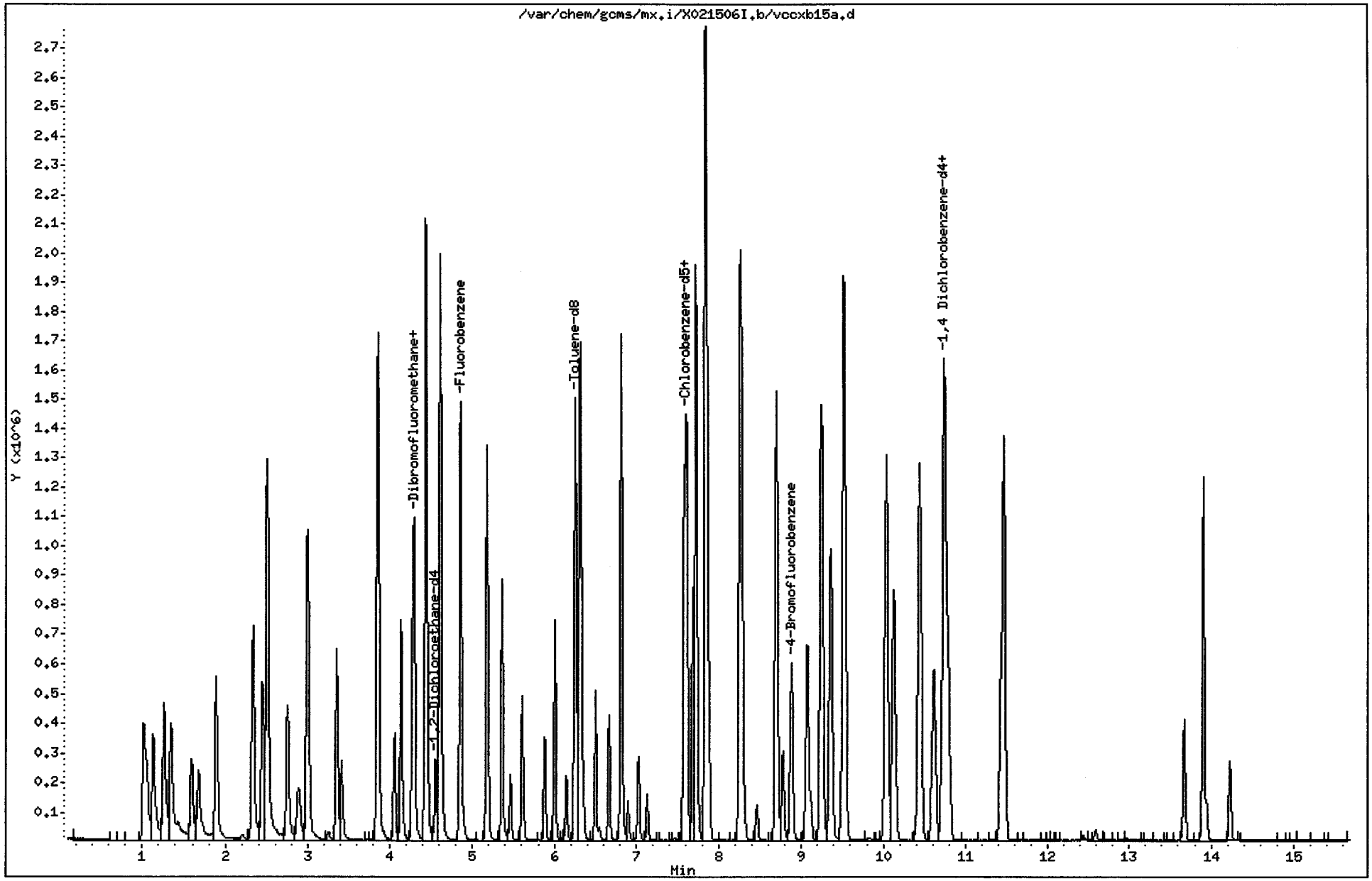
Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
54 trans-1,3-Dichloro	10.000	10.028	100.28	70-130
56 1,1,2-Trichloroeth	10.000	10.456	104.56	70-130
57 Tetrachloroethene	10.000	11.111	111.11	70-130
58 1,3-Dichloropropan	10.000	10.709	107.09	70-130
59 2-Hexanone	20.000	19.036	95.18	70-130
60 Chlorodibromometha	10.000	10.588	105.88	70-130
61 1,2-Dibromoethane	10.000	10.345	103.45	70-130
62 Chlorobenzene (spc	10.000	10.588	105.88	70-130
64 Ethylbenzene (ccc)	10.000	11.023	110.23	70-130
63 1,1,1,2-Tetrachlor	10.000	10.555	105.55	70-130
65 m&p-Xylene	20.000	21.589	107.95	70-130
66 o-Xylene	10.000	10.567	105.67	70-130
M 9 Xylene (total)	30.000	32.156	107.19	70-130
67 Styrene	10.000	10.827	108.27	70-130
68 Bromoform (spcc)	10.000	10.668	106.68	70-130
69 Isopropylbenzene	10.000	9.6899	96.90	70-130
71 Bromobenzene	10.000	10.382	103.82	70-130
72 1,1,2,2-Tetrachlor	10.000	10.094	100.95	70-130
75 n-Propylbenzene	10.000	10.381	103.81	70-130
73 1,2,3-Trichloropro	10.000	9.6455	96.46	70-130
76 2-Chlorotoluene	10.000	10.328	103.28	70-130
77 1,3,5-Trimethylben	10.000	10.526	105.26	70-130
78 4-Chlorotoluene	10.000	10.212	102.12	70-130
79 tert-Butylbenzene	10.000	10.419	104.19	70-130
80 1,2,4-Trimethylben	10.000	10.354	103.54	70-130
81 sec-Butylbenzene	10.000	10.856	108.56	70-130
82 1,3-Dichlorobenzen	10.000	10.255	102.55	70-130
83 p-Isopropyltoluene	10.000	10.154	101.54	70-130
84 1,4-Dichlorobenzen	10.000	10.298	102.98	70-130
86 n-Butylbenzene	10.000	10.479	104.79	70-130
85 1,2-Dichlorobenzen	10.000	9.9054	99.05	70-130
87 1,2-Dibromo-3-chlo	10.000	9.0042	90.04	70-130
88 1,2,4-Trichloroben	10.000	9.6607	96.61	70-130
89 Hexachlorobutadien	10.000	10.916	109.16	70-130
90 Napthalene	10.000	9.4881	94.88	70-130
91 1,2,3-Trichloroben	10.000	9.9640	99.64	70-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	9.8768	98.77	71-127
$ 4 Dibromofluorometha	10.000	9.9297	99.30	79-120
$ 6 Toluene-d8	10.000	10.056	100.57	80-120
$ 7 4-Bromofluorobenze	10.000	9.7837	97.84	69-126

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Date : 15-FEB-2006 18:03
Client ID:
Sample Info: VCCXB15A,1,3,,2ndSource
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



4/7/06

STL Knoxville GC/MS VOST Continuing Calibration Review / Narrative Checklist
Method: VOST Analysis - KNOX-MS-0011, Rev. 5 and KNOX-MS-0015, Rev. 8

Analysis Date:	4/7/06	CCAL Batch/ Scan Name:	XD40706	Instrument:	MX	ICAL Batch/ Scan Name:	~~XD20~~ XD215061	

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		☐*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?		✓			✓
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		☐%D or drift > 50% for the following TCLs: _____ Acetone 96%	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst:	Date: 4/7/06	2nd Level Reviewer : MT	Date: 4/7/06
Comments:		**Comments:**	

STL Knoxville GC/MS Volatiles Run Log - Instrument MX

Target Batch	X0407086	XXXXXXXXX	XXXXXXXXX	Loop #	1	2
QuantIMS Batch	6097054	—	—	Standard ID	VOA6495	VOA6494
Method	VOST	XXXXXXXXX	XXXXXXXXX	Matrix	2.5mL	2.5mL VOST
SOP#	KNOX.MG0011	XXXXXXXXX	XXXXXXXXX	IS Amt	0.969mL	0.939mL
Intitial Cal Batch	X021506T	XXXXXXXXX	XXXXXXXXX	SS Amt	↓	5.0mL VOA6493
CCAL IS Areas	1149191	214194	242601	Heated?	Y	N

☒ Date/Time Verified Preventive Maintenance Performed ☐ NA or ☒ Changed Transfer line + Trap heater + Trap liner + Sept

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFBXD07	0859	—	—	—	1	1.0mL	NA	—	1.0mL VOA6493
CCV	CCVXD073	0916	18	1	1	1	25mL			5.0mL VOA6496 → 50mL
LCS	H2RM4+1AC	1002	1	2	1					2.5mL VOA6496
LCSD	1AD	1033	2							↓ ↓
BLK	BLK1	1104	3							
↓	H2RM4+1AA	1131	4							
H6D030169	H2G871AA	1206	5							
	9A	1232	6							
	9F	1259	7							
	9W	1325	8							
	97	1351	9							
	99	1417	10							
	H2HCG1AA	1443	11							
	CM	1510	12							
	CP	1538	13							↓5mL
	~~H2KHL1AA~~									~~H2KHL1AA~~
	~~HX~~									
	~~HW~~									
	BLK2	1609	14							
	H2KH11AA	1801	15 18						MT	
	HX	1834	16 19							
	HW	1859	17 20							
	HV	1904	18 21							
	HR	1949	19 22							
	HL	2014	20 23							
	~~H2HCD1AA~~									
	H2HCF1AA	1637	15							Archive
	H2HCD1AA	1703	16							↓ 'E'
BLK	BLK3	1734	17							

Analyst/Date: 4/10/06

MS033R7.doc, 11/3/05

Data File: /var/chem/gcms/mx.i/X040706.b/bfbxd07.d

Date : 07-APR-2006 08:59

Client ID: TUNE

Instrument: mx.i

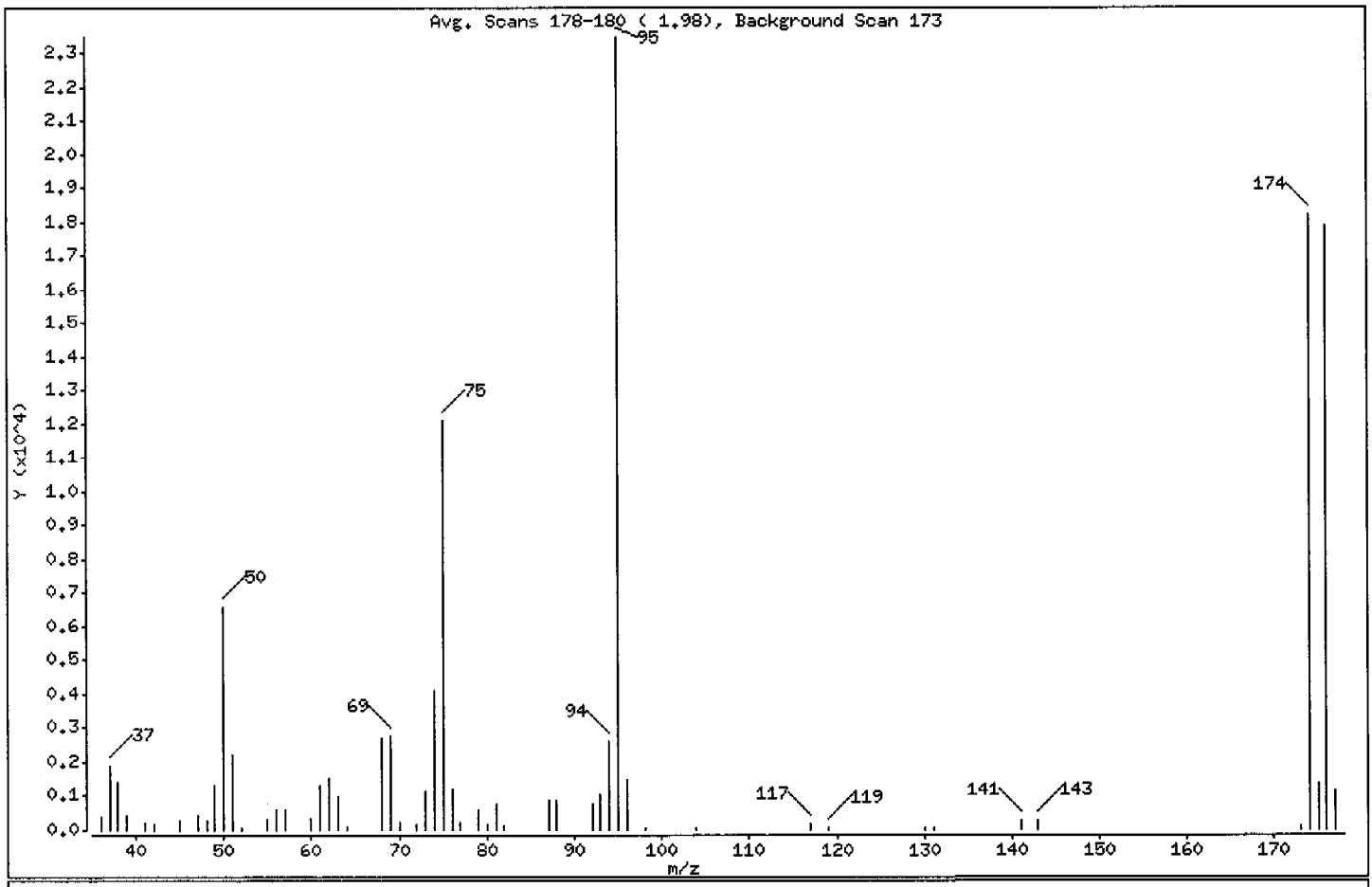
Sample Info: BFBXD07,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.95
75	30.00 - 60.00% of mass 95	51.57
96	5.00 - 9.00% of mass 95	6.19
173	Less than 2.00% of mass 174	0.49 (0.63)
174	50.00 - 120.00% of mass 95	77.47
175	5.00 - 9.00% of mass 174	5.63 (7.27)
176	95.00 - 101.00% of mass 174	76.16 (98.31)
177	5.00 - 9.00% of mass 176	4.77 (6.27)

Data File: /var/chem/gcms/mx.i/X040706.b/bfbxd07.d

Date : 07-APR-2006 08:59

Client ID: TUNE

Instrument: mx.i

Sample Info: BFBXD07,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

Data File: bfbxd07.d
Spectrum: Avg. Scans 178-180 (1.98), Background Scan 173
Location of Maximum: 95.00
Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	356	56.00	594	76.00	1181	104.00	64
37.00	1885	57.00	592	77.00	192	117.00	150
38.00	1408	60.00	302	79.00	614	119.00	62
39.00	412	61.00	1271	80.00	140	130.00	51
41.00	192	62.00	1489	81.00	738	131.00	56
42.00	163	63.00	963	82.00	125	141.00	277
45.00	283	64.00	103	87.00	850	143.00	294
47.00	433	68.00	2706	88.00	877	173.00	114
48.00	296	69.00	2736	92.00	764	174.00	18208
49.00	1319	70.00	224	93.00	1028	175.00	1324
50.00	6569	72.00	145	94.00	2617	176.00	17896
51.00	2238	73.00	1115	95.00	23504	177.00	1122
52.00	67	74.00	4101	96.00	1456		
55.00	347	75.00	12121	98.00	56		

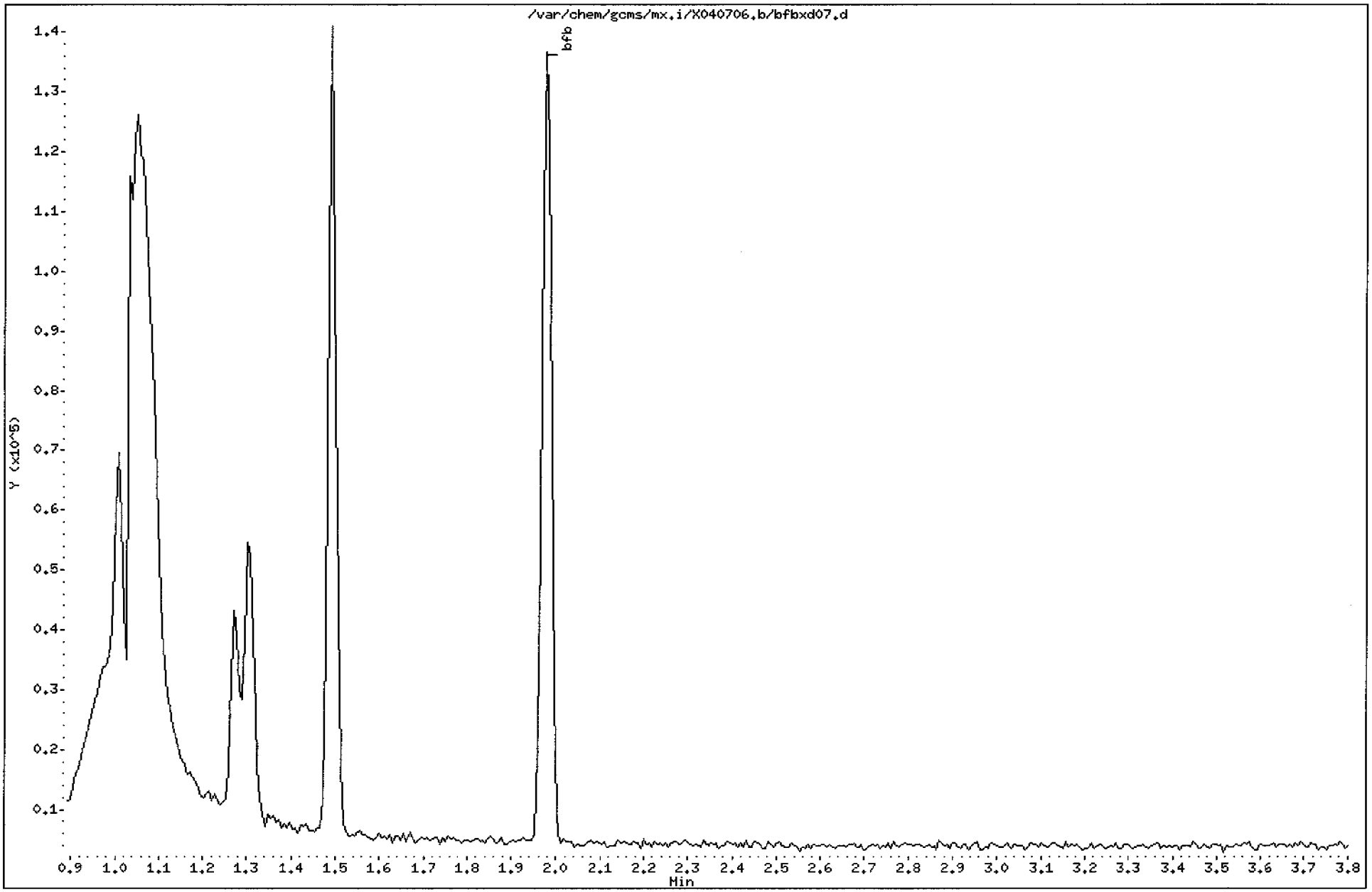
Data File: /var/chem/gcms/mx.i/X040706.b/bfbxd07.d
Date : 07-APR-2006 08:59
Client ID: TUNE
Sample Info: BFBXD07,1,3,,BFB,TUNE

Instrument: mx.i

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/ccvxd073.d
Report Date: 07-Apr-2006 09:34

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxd073.d
Analysis Type: WATER
Lab Sample ID: CCVXD073
Method: /chem/gcms/mx.i/X040706.b/8260B_LM.m

Injection Date: 07-APR-2006 09:16
Init. Cal. Date(s): 15-FEB-2006 15-FEB-2006
Init. Cal. Times: 14:31 17:10
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.17002	0.16172	0.16172	0.000	4.88180	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.13253	0.13234	0.13234	0.000	0.14437	50.00000	Averaged	
$ 6 Toluene-d8	4.89602	4.76421	4.76421	0.000	2.69217	50.00000	Averaged	
$ 7 4-Bromofluorobenzene	1.18566	1.14726	1.14726	0.000	3.23855	50.00000	Averaged	
M 8 1,2-Dichloroethene (total)	0.24107	0.23692	0.23692	0.000	1.72199	50.00000	Averaged	
M 9 Xylene (total)	2.34073	2.58599	2.58599	0.000	-10.47792	50.00000	Averaged	
10 Dichlorodifluoromethane	0.31656	0.34676	0.34676	0.000	-9.54071	50.00000	Averaged	
11 Chloromethane (spcc)	0.46588	0.47701	0.47701	0.100	-2.38954	50.00000	Averaged	
12 Vinyl Chloride (ccc)	0.36353	0.38354	0.38354	0.000	-5.50275	19.00000	Averaged	
14 Bromomethane	0.14089	0.14339	0.14339	0.000	-1.77498	50.00000	Averaged	
15 Chloroethane	0.19967	0.19625	0.19625	0.000	1.71522	50.00000	Averaged	
17 Trichlorofluoromethane	0.39771	0.39879	0.39879	0.000	-0.27176	50.00000	Averaged	
19 1,1-Dichloroethene (ccc)	0.20131	0.21199	0.21199	0.000	-5.30601	19.00000	Averaged	
20 *Freon 113	0.17862	0.17325	0.17325	0.000	3.00737	50.00000	Averaged	
21 Acetone	0.01416	0.02798	0.02798	0.000	-97.52675	50.00000	Averaged	<-
22 *Iodomethane	0.25220	0.23778	0.23778	0.000	5.71607	50.00000	Averaged	
23 Carbon Disulfide	0.76211	0.83827	0.83827	0.000	-9.99323	50.00000	Averaged	
26 Methylene Chloride	0.15461	0.15293	0.15293	0.000	1.08179	50.00000	Averaged	
28 *Acrylonitrile	0.01987	0.02111	0.02111	0.000	-6.25168	50.00000	Averaged	
29 trans-1,2-Dichloroethene	0.24401	0.23960	0.23960	0.000	1.80585	50.00000	Averaged	
32 1,1-Dichloroethane (spcc)	0.48414	0.52327	0.52327	0.100	-8.08230	50.00000	Averaged	
33 *Vinyl Acetate	0.01138	0.01219	0.01219	0.000	-7.12455	50.00000	Averaged	
34 2,2-Dichloropropane	0.43895	0.28664	0.28664	0.000	34.69938	50.00000	Averaged	
35 cis 1,2-Dichloroethene	0.22895	0.23423	0.23423	0.000	-2.30578	50.00000	Averaged	
36 2-Butanone	0.02209	0.02561	0.02561	0.000	-15.93209	50.00000	Averaged	
37 Bromochloromethane	0.06020	0.05946	0.05946	0.000	1.23167	50.00000	Averaged	
38 *THF	0.01354	0.01755	0.01755	0.000	-29.59940	50.00000	Averaged	
39 Chloroform (ccc)	0.38007	0.41207	0.41207	0.000	-8.41866	19.00000	Averaged	
40 1,1,1-Trichloroethane	0.42492	0.46593	0.46593	0.000	-9.65064	50.00000	Averaged	
41 Carbon Tetrachloride	0.35897	0.36593	0.36593	0.000	-1.93801	50.00000	Averaged	
42 1,1-Dichloropropene	0.39592	0.43501	0.43501	0.000	-9.87067	50.00000	Averaged	
43 Benzene	1.01276	1.09784	1.09784	0.000	-8.40126	50.00000	Averaged	
44 1,2-Dichloroethane	0.17043	0.19340	0.19340	0.000	-13.48075	50.00000	Averaged	
45 Trichloroethene	0.27175	0.28040	0.28040	0.000	-3.18342	50.00000	Averaged	
46 1,2-Dichloropropane (ccc)	0.21365	0.23160	0.23160	0.000	-8.40174	19.00000	Averaged	

Data File: /chem/gcms/mx.i/X040706.b/ccvxd073.d
Report Date: 07-Apr-2006 09:34

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxd073.d
Analysis Type: WATER
Lab Sample ID: CCVXD073
Method: /chem/gcms/mx.i/X040706.b/8260B_LM.m

Injection Date: 07-APR-2006 09:16
Init. Cal. Date(s): 15-FEB-2006 15-FEB-2006
Init. Cal. Times: 14:31 17:10
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 Dibromomethane	0.05671	0.05927	0.05927	0.000	-4.51155	50.00000	Averaged
49 Bromodichloromethane	0.21218	0.22515	0.22515	0.000	-6.11275	50.00000	Averaged
51 cis-1,3-Dichloropropene	0.24849	0.25431	0.25431	0.000	-2.34391	50.00000	Averaged
52 4-Methyl-2-pentanone	0.05291	0.06617	0.06617	0.000	-25.07184	50.00000	Averaged
53 Toluene (ccc)	5.85760	6.41561	6.41561	0.000	-9.52619	19.00000	Averaged
54 trans-1,3-Dichloropropene	1.02664	0.92678	0.92678	0.000	9.72696	50.00000	Averaged
56 1,1,2-Trichloroethane	0.46271	0.42312	0.42312	0.000	8.55621	50.00000	Averaged
57 Tetrachloroethene	1.25859	1.31735	1.31735	0.000	-4.66884	50.00000	Averaged
58 1,3-Dichloropropane	0.88264	0.84079	0.84079	0.000	4.74131	50.00000	Averaged
59 2-Hexanone	0.19574	0.23340	0.23340	0.000	-19.23876	50.00000	Averaged
60 Chlorodibromomethane	0.57328	0.54665	0.54665	0.000	4.64597	50.00000	Averaged
61 1,2-Dibromoethane	0.43092	0.39034	0.39034	0.000	9.41551	50.00000	Averaged
62 Chlorobenzene (spcc)	3.00692	3.19686	3.19686	0.300	-6.31673	50.00000	Averaged
63 1,1,1,2-Tetrachloroethane	0.98962	0.91579	0.91579	0.000	7.46028	50.00000	Averaged
64 Ethylbenzene (ccc)	2.06803	2.32875	2.32875	0.000	-12.60740	19.00000	Averaged
65 m&p-Xylene	2.42362	2.71970	2.71970	0.000	-12.21633	50.00000	Averaged
66 o-Xylene	2.07775	2.31857	2.31857	0.000	-11.59055	50.00000	Averaged
67 Styrene	2.97838	3.08597	3.08597	0.000	-3.61223	50.00000	Averaged
68 Bromoform (spcc)	0.27707	0.26128	0.26128	0.100	5.69901	50.00000	Averaged
69 Isopropylbenzene	6.66384	7.49716	7.49716	0.000	-12.50501	50.00000	Averaged
71 Bromobenzene	0.94134	1.00280	1.00280	0.000	-6.52834	50.00000	Averaged
72 1,1,2,2-Tetrachloroethane(s	0.36738	0.37501	0.37501	0.300	-2.07634	50.00000	Averaged
73 1,2,3-Trichloropropane	0.09335	0.09076	0.09076	0.000	2.78337	50.00000	Averaged
75 n-Propylbenzene	6.87900	8.03852	8.03852	0.000	-16.85601	50.00000	Averaged
76 2-Chlorotoluene	3.53018	3.87661	3.87661	0.000	-9.81351	50.00000	Averaged
77 1,3,5-Trimethylbenzene	3.71686	4.69744	4.69744	0.000	-26.38191	50.00000	Averaged
78 4-Chlorotoluene	3.72246	4.20961	4.20961	0.000	-13.08658	50.00000	Averaged
79 tert-Butylbenzene	3.92421	4.37731	4.37731	0.000	-11.54619	50.00000	Averaged
80 1,2,4-Trimethylbenzene	3.22636	4.20407	4.20407	0.000	-30.30397	50.00000	Averaged
81 sec-Butylbenzene	5.69974	6.62118	6.62118	0.000	-16.16651	50.00000	Averaged
82 1,3-Dichlorobenzene	1.68484	1.82160	1.82160	0.000	-8.11740	50.00000	Averaged
83 p-Isopropyltoluene	4.54682	5.37699	5.37699	0.000	-18.25823	50.00000	Averaged
84 1,4-Dichlorobenzene	1.52586	1.66781	1.66781	0.000	-9.30315	50.00000	Averaged
85 1,2-Dichlorobenzene	1.20943	1.25587	1.25587	0.000	-3.84003	50.00000	Averaged
86 n-Butylbenzene	3.99866	5.44218	5.44218	0.000	-36.10005	50.00000	Averaged

Data File: /chem/gcms/mx.i/X040706.b/ccvxd073.d
Report Date: 07-Apr-2006 09:34

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxd073.d
Analysis Type: WATER
Lab Sample ID: CCVXD073
Method: /chem/gcms/mx.i/X040706.b/8260B_LM.m

Injection Date: 07-APR-2006 09:16
Init. Cal. Date(s): 15-FEB-2006 15-FEB-2006
Init. Cal. Times: 14:31 17:10
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
87 1,2-Dibromo-3-chloropropane	0.04981	0.04271	0.04271	0.000	14.26643	50.00000	Averaged
88 1,2,4-Trichlorobenzene	0.59486	0.70041	0.70041	0.000	-17.74282	50.00000	Averaged
89 Hexachlorobutadiene	0.98373	0.87275	0.87275	0.000	11.28172	50.00000	Averaged
90 Napthalene	0.43389	0.64578	0.64578	0.000	-48.83592	50.00000	Averaged
91 1,2,3-Trichlorobenzene	0.38406	0.43867	0.43867	0.000	-14.21883	50.00000	Averaged

Data File: /chem/gcms/mx.i/X040706.b/ccvxd073.d
Report Date: 07-Apr-2006 09:34

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/ccvxd073.d
Lab Smp Id: CCVXD073 Client Smp ID: VSTD010
Inj Date : 07-APR-2006 09:16
Operator : 22980 Inst ID: mx.i
Smp Info : CCVXD073,1,2,3,,VSTD010
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:33 chemist Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	4.851	4.851	(1.000)	1149191	10.0000	
*	2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	214194	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	242601	10.0000	
$	4 Dibromofluoromethane	113	4.273	4.273	(0.881)	185848	10.0000	9.5118
$	5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	152081	10.0000	9.9856
$	6 Toluene-d8	98	6.250	6.250	(0.824)	1020467	10.0000	9.7308
$	7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	278327	10.0000	9.6761
M	8 1,2-Dichloroethene (total)	96				544521	20.0000	20.050
M	9 Xylene (total)	106				1661711	30.0000	33.602
	10 Dichlorodifluoromethane	85	1.128	1.128	(0.232)	398495	10.0000	10.954
	11 Chloromethane (spcc)	50	1.262	1.262	(0.260)	548181	10.0000	10.239
	12 Vinyl Chloride (ccc)	62	1.335	1.335	(0.275)	440757	10.0000	10.550
	14 Bromomethane	94	1.590	1.590	(0.328)	164786	10.0000	10.177
	15 Chloroethane	64	1.669	1.669	(0.344)	225524	10.0000	9.8285

Data File: /chem/gcms/mx.i/X040706.b/ccvxd073.d
Report Date: 07-Apr-2006 09:34

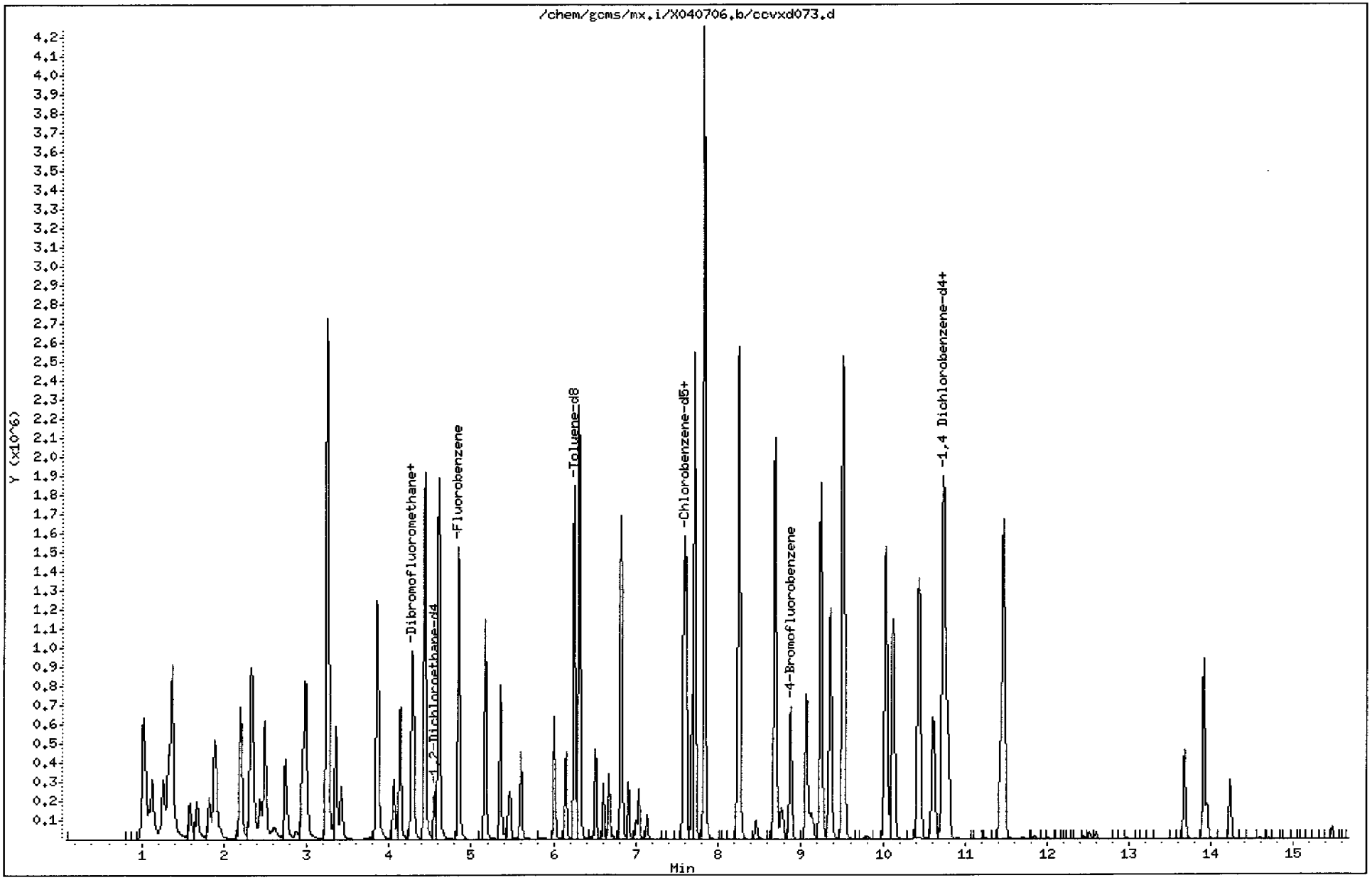
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Trichlorofluoromethane	101	1.888	1.888	(0.389)	458281	10.0000	10.027
19 1,1-Dichloroethene (ccc)	96	2.326	2.326	(0.480)	243617	10.0000	10.531
20 *Freon 113	151	2.351	2.351	(0.485)	199098	10.0000	9.6993
21 Acetone	43	2.381	2.381	(0.491)	128601	40.0000	79.011
22 *Iodomethane	142	2.442	2.442	(0.503)	273257	10.0000	9.4284
23 Carbon Disulfide	76	2.497	2.497	(0.515)	963337	10.0000	10.999
26 Methylene Chloride	84	2.746	2.746	(0.566)	175751	10.0000	9.8918
28 *Acrylonitrile	53	2.959	2.959	(0.610)	485237	200.000	212.50
29 trans-1,2-Dichloroethene	96	2.989	2.989	(0.616)	275351	10.0000	9.8194
32 1,1-Dichloroethane (spcc)	63	3.354	3.354	(0.691)	601336	10.0000	10.808
33 *Vinyl Acetate	86	3.421	3.421	(0.705)	28007	20.0000	21.425
34 2,2-Dichloropropane	77	3.853	3.853	(0.794)	329401	10.0000	6.5301
35 cis 1,2-Dichloroethene	96	3.859	3.859	(0.796)	269169	10.0000	10.230
36 2-Butanone	43	3.871	3.871	(0.798)	117732	40.0000	46.373
37 Bromochloromethane	128	4.054	4.054	(0.836)	68329	10.0000	9.8768
38 *THF	42	4.109	4.109	(0.847)	80651	40.0000	51.840
39 Chloroform (ccc)	83	4.139	4.139	(0.853)	473549	10.0000	10.842
40 1,1,1-Trichloroethane	97	4.291	4.291	(0.885)	535438	10.0000	10.965
41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	420523	10.0000	10.194
42 1,1-Dichloropropene	75	4.437	4.437	(0.915)	499904	10.0000	10.987
43 Benzene	78	4.607	4.607	(0.950)	1261632	10.0000	10.840
44 1,2-Dichloroethane	62	4.620	4.620	(0.952)	222254	10.0000	11.348
45 Trichloroethene	130	5.173	5.173	(1.066)	322234	10.0000	10.318
46 1,2-Dichloropropane (ccc)	63	5.362	5.362	(1.105)	266149	10.0000	10.840
48 Dibromomethane	93	5.459	5.459	(1.125)	68112	10.0000	10.451
49 Bromodichloromethane	83	5.605	5.605	(1.155)	258739	10.0000	10.611
51 cis-1,3-Dichloropropene	75	6.007	6.007	(1.238)	292250	10.0000	10.234
52 4-Methyl-2-pentanone	43	6.147	6.147	(1.267)	304188	40.0000	50.029
53 Toluene (ccc)	91	6.311	6.311	(0.832)	1374187	10.0000	10.953
54 trans-1,3-Dichloropropene	75	6.506	6.506	(0.858)	198510	10.0000	9.0273
56 1,1,2-Trichloroethane	97	6.670	6.670	(0.880)	90629	10.0000	9.1444
57 Tetrachloroethene	164	6.816	6.816	(0.899)	282169	10.0000	10.467
58 1,3-Dichloropropane	76	6.822	6.822	(0.900)	180092	10.0000	9.5259
59 2-Hexanone	43	6.907	6.907	(0.911)	199970	40.0000	47.696
60 Chlorodibromomethane	129	7.035	7.035	(0.928)	117089	10.0000	9.5354
61 1,2-Dibromoethane	107	7.138	7.138	(0.941)	83609	10.0000	9.0584
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	684750	10.0000	10.632
63 1,1,1,2-Tetrachloroethane	131	7.686	7.686	(1.014)	196157	10.0000	9.2540
64 Ethylbenzene (ccc)	106	7.716	7.716	(1.018)	498805	10.0000	11.261
65 m&p-Xylene	106	7.838	7.838	(1.034)	1165087	20.0000	22.443
66 o-Xylene	106	8.251	8.251	(1.088)	496624	10.0000	11.159
67 Styrene	104	8.264	8.264	(1.090)	660997	10.0000	10.361
68 Bromoform (spcc)	173	8.464	8.464	(1.116)	55965	10.0000	9.4301
69 Isopropylbenzene	105	8.689	8.689	(1.146)	1605848	10.0000	11.250
71 Bromobenzene	156	9.067	9.067	(1.196)	214793	10.0000	10.653
72 1,1,2,2-Tetrachloroethane(sp)	83	9.061	9.061	(1.195)	80324	10.0000	10.208
73 1,2,3-Trichloropropane	110	9.115	9.115	(0.848)	22017	10.0000	9.7217

Data File: /chem/gcms/mx.i/X040706.b/ccvxd073.d
Report Date: 07-Apr-2006 09:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
75 n-Propylbenzene	91	9.243	9.243	(0.860)	1950155	10.0000	11.686
76 2-Chlorotoluene	91	9.353	9.353	(0.870)	940470	10.0000	10.981
77 1,3,5-Trimethylbenzene	105	9.511	9.511	(0.885)	1139604	10.0000	12.638
78 4-Chlorotoluene	91	9.511	9.511	(0.885)	1021255	10.0000	11.309
79 tert-Butylbenzene	119	10.034	10.034	(0.934)	1061941	10.0000	11.155
80 1,2,4-Trimethylbenzene	105	10.125	10.125	(0.942)	1019913	10.0000	13.030
81 sec-Butylbenzene	105	10.435	10.435	(0.971)	1606307	10.0000	11.617
82 1,3-Dichlorobenzene	146	10.612	10.612	(0.988)	441922	10.0000	10.812
83 p-Isopropyltoluene	119	10.734	10.734	(0.999)	1304464	10.0000	11.826
84 1,4-Dichlorobenzene	146	10.788	10.788	(1.004)	404612	10.0000	10.930
85 1,2-Dichlorobenzene	146	11.433	11.433	(1.064)	304675	10.0000	10.384
86 n-Butylbenzene	91	11.470	11.470	(1.067)	1320279	10.0000	13.610
87 1,2-Dibromo-3-chloropropane	157	12.595	12.595	(1.172)	10360	10.0000	8.5734
88 1,2,4-Trichlorobenzene	180	13.678	13.678	(1.273)	169919	10.0000	11.774
89 Hexachlorobutadiene	225	13.909	13.909	(1.294)	211729	10.0000	8.8718
90 Napthalene	128	13.946	13.946	(1.298)	156667	10.0000	14.884
91 1,2,3-Trichlorobenzene	180	14.232	14.232	(1.324)	106421	10.0000	11.422

Data File: /chem/gcms/mx.i/X040706.b/ccvxd073.d
Date : 07-APR-2006 09:16
Client ID: VSTD010
Sample Info: CCVXD073,1,2,3,,VSTD010
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



STL Volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method: 8260B – KNOX-MS-0015, Rev. 8

Analysis Date: 5/3/06	Instrument: MX	ICAL Batch/Scan Name: X050306	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tunc criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below RL?	✓			See comments	NB
6. Was the primary ion used for all compounds?		✓		☐ *Secondary ion used due to interferences for:* _____	✓
7. Do the average RFs for SPCCs meet minimum RF?		✓			✓
8. Are %RSD <30% for CCCs?	✓				NB
9. Was a linear fit or quadratic fit used for analytes >15% RSD?	✓				NB
10. If curves were used, is correlation coefficient ≥0.990?	✓				NB
11. At least 6 consecutive points used for quadratic curves?	✓				NB
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous?	✓				NB
13. Is the "Y" intercept less than the RL for each curve?	✓				NB
14. Were all peaks identified automatically? *If not, list analytes:* _____		✓			✓
15. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NB
16. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
17. Elution order checked on isomeric pairs? TW 5-9-06	✗	✓			✓
• hexane and vinyl acetate	✓				NB
• cis- and trans- isomers					NB
• trichlorofluoromethane and Freon 113					NB
• ethyl benzene / m/p-xylene / o-xylene					NB
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene					NB
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene					NB
• 1,3- , 1,4- , and 1,2-dichlorobenzene					NB
• 1,2,4 and 1,2,3 -trichlorobenzene					NB
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?		✓		NCM 05-06213 - see comment	✓
19. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, & curves, followed by Quan reports, chromatograms & manual integrations, in order from low to high standard.		✓			✓
20. Was the 2nd source calibration verification standard within 70-130% and are results in ICAL folder? (25% DOD)		✓			✓

Analyst: TW	Date: 5/10/06	2nd Level Reviewer : [illegible]	Date: 05/10/06

Comments:

This calibration curve ranges from 10 → 320 µg/L. (0.25 → 8 µg)
this is to allow a calculation ~~from~~ for samples
~~analyzed~~ in lot HG030169 that were analyzed
on 4/7/06 that were over the original
initial calibration's range. This is discussed in
NCM 05-06213. In addition, chlorobenzene
in the 320 µg/L STD was slightly saturated.
This point was still included in the calibration
(Surrogates not included in this quantitation due to
the surrogates are included in the original quantitation).

TW 5-10-06

Comments:

STL Knoxville GC/MS Volatiles Run Log - Instrument MX

Target Batch	X050306	XXXXXXXXX	XXXXXXXXX	Loop #	1	—
QuantIMS Batch	—	—	—	Standard ID	VOA6527	—
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	H2O	—
SOP#	KNOX-MS-0015	XXXXXXXXX	XXXXXXXXX	IS Amt	0.969 µl	—
Intitial Cal Batch	X021506Z	XXXXXXXXX	XXXXXXXXX	SS Amt	—	—
CCAL IS Areas 8260:	1027267	184227	189905	Heated?		Y (N)

☑ Date/Time Verified Preventive Maintenance Performed ☑ NA or ☐ _____ _____

Lot	Lab File ID	Time	ALS #	Loop #	~~Solatek~~ Archon Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
TUNE	BFBXE03	1425	—	—	—	—	1 µl	NA	TMW	1 µl VOA6526
8260 C.Cal	CCVXE03	1445	18	1	1	1	25 ml			5 µl VOA6529 / 50 ml
TCLP C.Cal (10)	TCLP10	1512	19							2.5 µl VOA6531 / 50 ml
TCLP @ 80	80	1537	20							20 µl
@ 160	160	1605	21							40 µl
@ 240	240	1632	22							60 µl
@ 320	320	1659	23							80 µl
BLANK	BLANK1	1726	24							
	BLK2	1753	25							
MT 5/3/06	~~BLK2~~ VOTSOK	1953	26						MT	60 µl VOA6531 + 5 µl VOA6526

MT 5/3/06

Analyst/Date: MT 5/3/06 / _____

Data File: /var/chem/gcms/mx.i/X050306.b/bfbxe03.d

Date : 03-MAY-2006 14:25

Client ID: TUNE

Instrument: mx.i

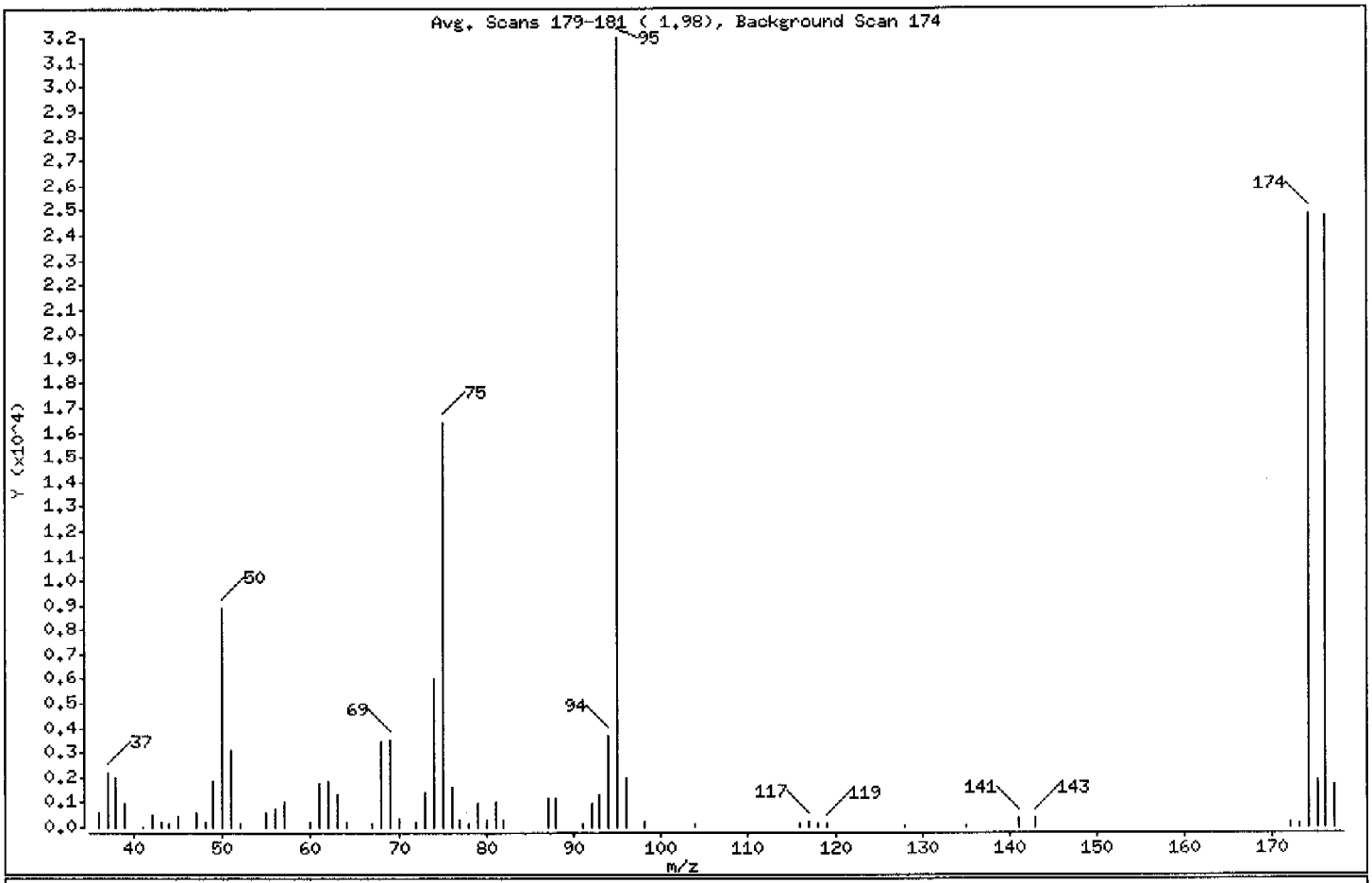
Sample Info: BFBXE03,1,3,,BFB,TUNE

Operator: 60487

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.70
75	30.00 - 60.00% of mass 95	51.39
96	5.00 - 9.00% of mass 95	6.21
173	Less than 2.00% of mass 174	0.38 (0.50)
174	50.00 - 120.00% of mass 95	77.49
175	5.00 - 9.00% of mass 174	6.02 (7.77)
176	95.00 - 101.00% of mass 174	77.14 (99.55)
177	5.00 - 9.00% of mass 176	5.25 (6.80)

Data File: /var/chem/gcms/mx.i/X050306.b/bfbxe03.d

Date : 03-MAY-2006 14:25

Client ID: TUNE

Instrument: mx.i

Sample Info: BFBXE03,1,3,,BFB,TUNE

Operator: 60487

Column phase: J & W 624

Column diameter: 0.18

Data File: bfbxe03.d
Spectrum: Avg. Scans 179-181 (1.98), Background Scan 174
Location of Maximum: 95.00
Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	554	56.00	736	77.00	284	116.00	139
37.00	2204	57.00	1053	78.00	171	117.00	233
38.00	2014	60.00	202	79.00	926	118.00	118
39.00	942	61.00	1736	80.00	305	119.00	173
41.00	4	62.00	1839	81.00	1059	128.00	58
42.00	537	63.00	1333	82.00	315	135.00	62
43.00	201	64.00	214	87.00	1213	141.00	341
44.00	166	67.00	128	88.00	1193	143.00	360
45.00	452	68.00	3473	91.00	153	172.00	189
47.00	582	69.00	3508	92.00	955	173.00	123
48.00	256	70.00	399	93.00	1302	174.00	24808
49.00	1839	72.00	221	94.00	3699	175.00	1928
50.00	8870	73.00	1426	95.00	32016	176.00	24696
51.00	3057	74.00	6059	96.00	1988	177.00	1680
52.00	181	75.00	16448	98.00	243		
55.00	574	76.00	1588	104.00	172		

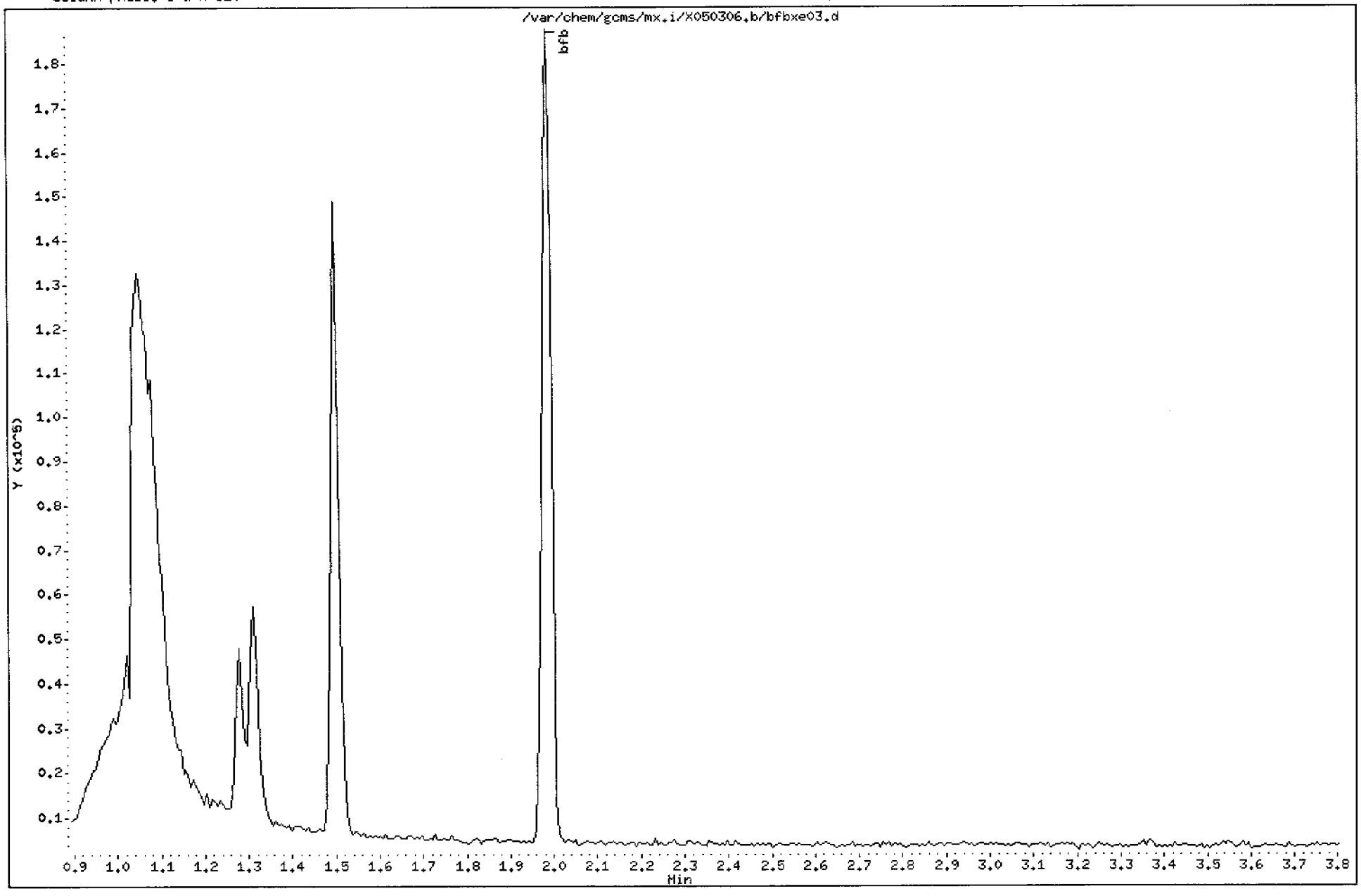
Data File: /var/chem/gcms/mx.i/X050306.b/bfbxe03.d
Date : 03-MAY-2006 14:25
Client ID: TUNE
Sample Info: BFBXE03,1,3,,BFB,TUNE

Instrument: mx.i

Operator: 60487

Column phase: J & W 624

Column diameter: 0.18



Report Date : 09-May-2006 12:16

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2006 15:12
End Cal Date : 03-MAY-2006 16:59
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X050306.b/clbz.m
Cal Date : 09-May-2006 12:16 wilesd

Calibration File Names:
Level 3: /var/chem/gcms/mx.i/X050306.b/tclp10.d
Level 6: /var/chem/gcms/mx.i/X050306.b/tclp80.d
Level 8: /var/chem/gcms/mx.i/X050306.b/tclp160.d
Level 9: /var/chem/gcms/mx.i/X050306.b/tclp240.d
Level 10: /var/chem/gcms/mx.i/X050306.b/tclp320.d

Compound	10 Level 3	80 Level 6	~~0.2000~~ 160 Level 8	~~0.0000~~ 240 Level 9	~~0.0000~~ 320 Level 10	Curve	Coefficients b	m1	m2	%RSD or R^2	
M 8 1,2-Dichloroethene (total)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
M 9 Xylene (total)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
10 Dichlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
11 Chloromethane (spcc)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
12 Vinyl Chloride (ccc)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
13 *1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
14 Bromomethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
15 Chloroethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
16 *Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
17 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
18 *2-Chloropropane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
19 1,1-Dichloroethene (ccc)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
20 *Freon 113	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
21 Acetone	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
22 *Iodomethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

1743

Report Date : 09-May-2006 12:16

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2006 15:12
End Cal Date : 03-MAY-2006 16:59
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X050306.b/clbz.m
Cal Date : 09-May-2006 12:16 wilesd

Compound	10 Level 3	80 Level 6	~~0.2000~~ 160 Level 8	~~0.0000~~ 240 Level 9	~~0.0000~~ 320 Level 10	Curve	Coefficients b	m1	m2	%RSD or R^2	
45 Trichloroethene	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
46 1,2-Dichloropropane (ccc)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
47 *Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
48 Dibromomethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
49 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
50 *2-Chloroethylvinylether	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
51 cis-1,3-Dichloropropene	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
52 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
53 Toluene (ccc)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
54 trans-1,3-Dichloropropene	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
55 *Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
56 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
57 Tetrachloroethene	1.40265	1.43614	1.42347	1.42934	1.36135	AVRG		1.41059		2.14387	
58 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
59 2-Hexanone	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
60 Chlorodibromomethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
61 1,2-Dibromoethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
62 Chlorobenzene (spcc)	3.55544	3.40844	3.34833	3.27918	2.94936	AVRG		3.30815		6.79963	
63 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
64 Ethylbenzene (ccc)	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
65 m&p-Xylene	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
66 o-Xylene	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Data File: /var/chem/gcms/mx.i/X050306.b/tclp10.d
Report Date: 09-May-2006 12:21

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/tclp10.d
Lab Smp Id: TCLP10 Client Smp ID: VSTD010
Inj Date : 03-MAY-2006 15:12
Operator : 60487 Inst ID: mx.i
Smp Info : TCLP10,1,1,3,,VSTD010,
Misc Info : X050306,8260B_LM,clbz.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 12:20 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 19 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	954873	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	176393	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.740	10.740	(1.000)	181219	10.0000	
57 Tetrachloroethene	164	6.816	6.816	(0.899)	247417	10.0000	10.000
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	627155	10.0000	10.000

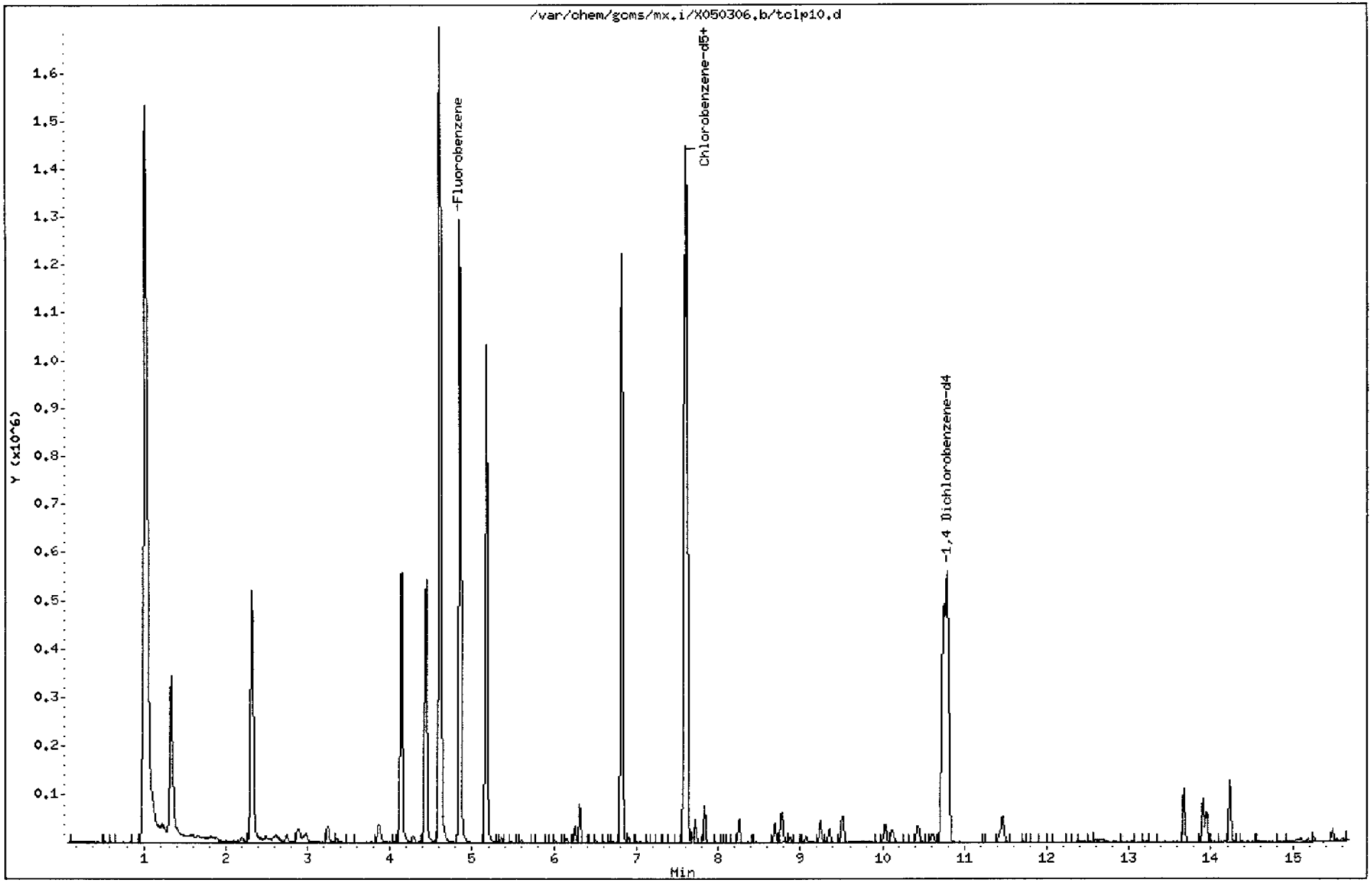
Data File: /var/chem/gcms/mx.i/X050306.b/tclp10.d
Date : 03-MAY-2006 15:12
Client ID: VSTD010
Sample Info: TCLP10,1,1,3,,VSTD010,

Instrument: mx.i

Operator: 60487

Column phase: J+W 624

Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/tclp80.d
Report Date: 09-May-2006 12:21

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/tclp80.d
Lab Smp Id: TCLP80 Client Smp ID: VSTD080
Inj Date : 03-MAY-2006 15:39
Operator : 60487 Inst ID: mx.i
Smp Info : TCLP80,1,1,6,,VSTD080,
Misc Info : X050306,8260B_LM,clbz.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 12:20 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:39 Cal File: tclp80.d
Als bottle: 20 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.850	4.851	(1.000)	948436	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	173153	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.751	10.740	(1.000)	170595	10.0000	
57 Tetrachloroethene	164	6.821	6.816	(0.900)	1989371	80.0000	80.944(A)
62 Chlorobenzene (spcc)	112	7.612	7.607	(1.004)	4721446	80.0000	78.311

QC Flag Legend

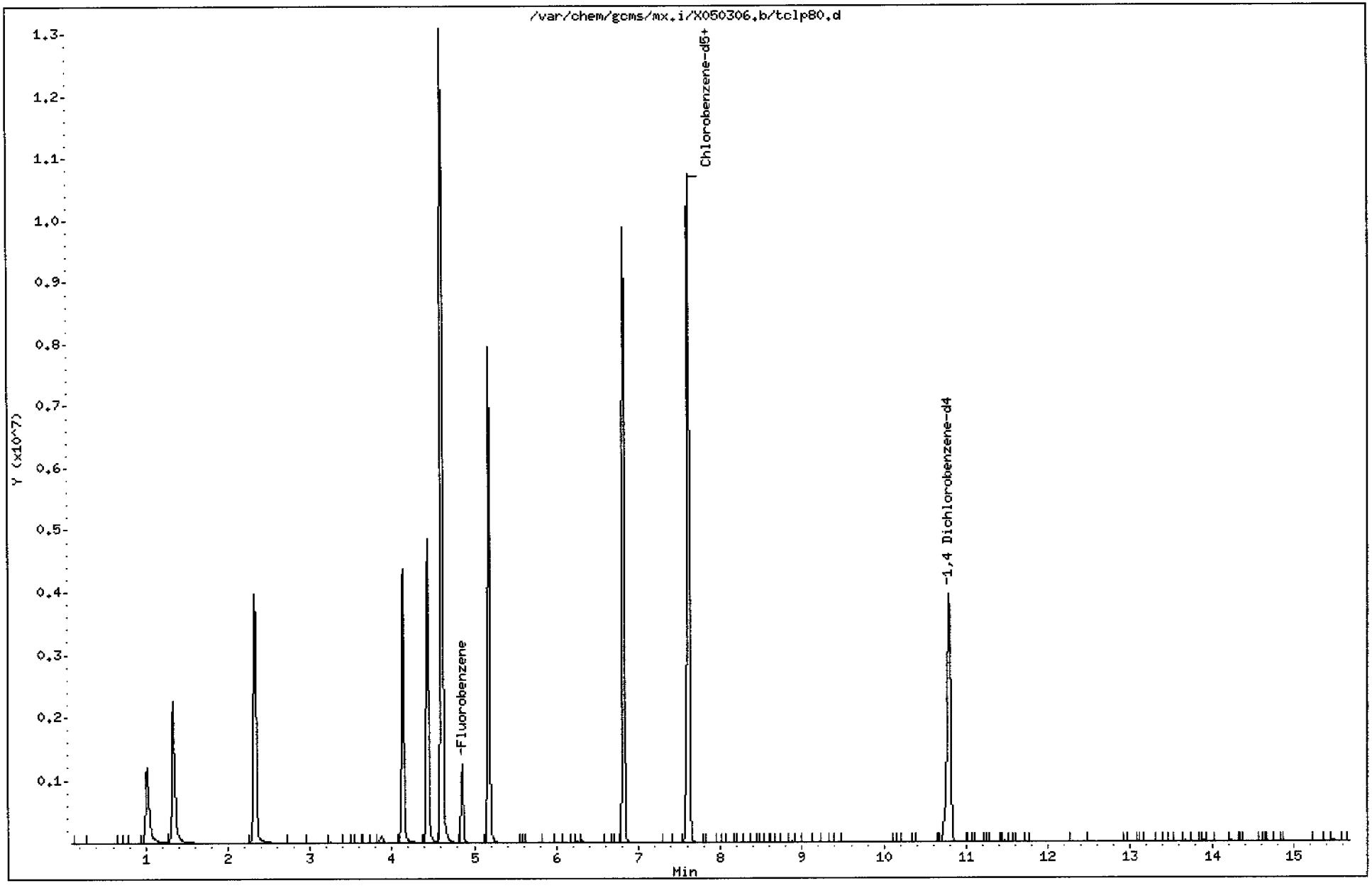
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/tclp80.d
Date : 03-MAY-2006 15:39
Client ID: VSTD080
Sample Info: TCLP80,1,1,6,,VSTD080,

Column phase: J+W 624

Instrument: mx.i

Operator: 60487
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/tclp160.d
Report Date: 09-May-2006 12:21

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/tclp160.d
Lab Smp Id: TCLP160 Client Smp ID: VSTD160
Inj Date : 03-MAY-2006 16:05
Operator : 60487 Inst ID: mx.i
Smp Info : TCLP160,1,1,8,,VSTD160,
Misc Info : X050306,8260B_LM,clbz.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 12:20 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 16:05 Cal File: tclp160.d
Als bottle: 21 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.854	4.851	(1.000)	885269	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.582	(1.000)	168843	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.749	10.740	(1.000)	171850	10.0000	
57 Tetrachloroethene	164	6.825	6.816	(0.900)	3845475	160.000	160.30(A)
62 Chlorobenzene (spcc)	112	7.616	7.607	(1.004)	9045465	160.000	155.85(A)

QC Flag Legend

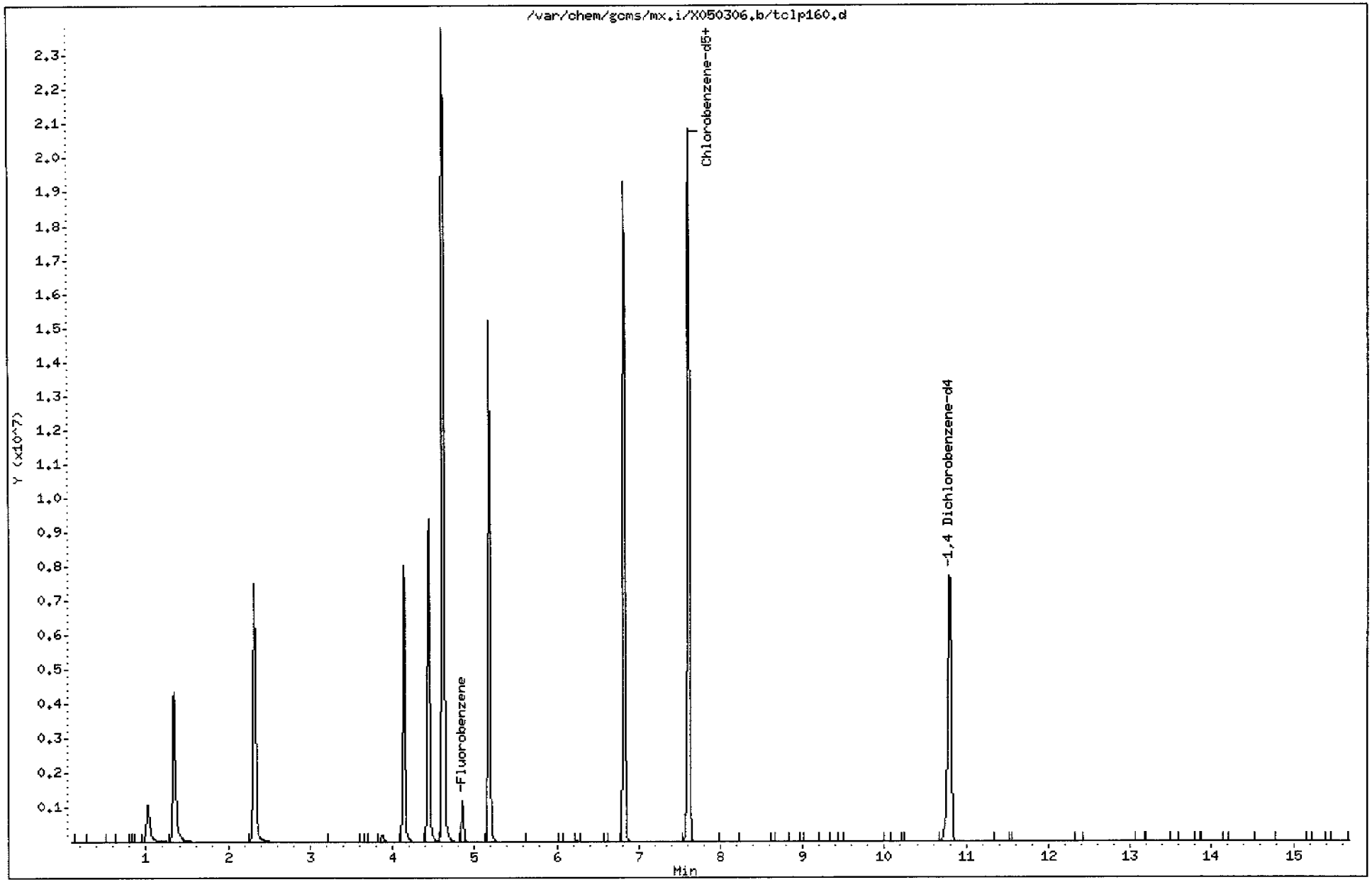
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/tclp160.d
Date : 03-MAY-2006 16:05
Client ID: VSTD160
Sample Info: TCLP160,1,1,8,,VSTD160,

Column phase: J+W 624

Instrument: mx.i

Operator: 60487
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/tclp240.d
Report Date: 09-May-2006 12:21

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/tclp240.d
Lab Smp Id: TCLP240 Client Smp ID: VSTD240
Inj Date : 03-MAY-2006 16:32
Operator : 60487 Inst ID: mx.i
Smp Info : TCLP240,1,1,9,,VSTD240,
Misc Info : X050306,8260B_LM,clbz.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 12:20 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 16:32 Cal File: tclp240.d
Als bottle: 22 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	873147	10.0000	
* 2 Chlorobenzene-d5	119	7.590	7.582	(1.000)	170046	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.754	10.740	(1.000)	181215	10.0000	
57 Tetrachloroethene	164	6.830	6.816	(0.900)	5833274	240.000	241.08(A)
62 Chlorobenzene (spcc)	112	7.621	7.607	(1.004)	13382686	240.000	231.62(A)

QC Flag Legend

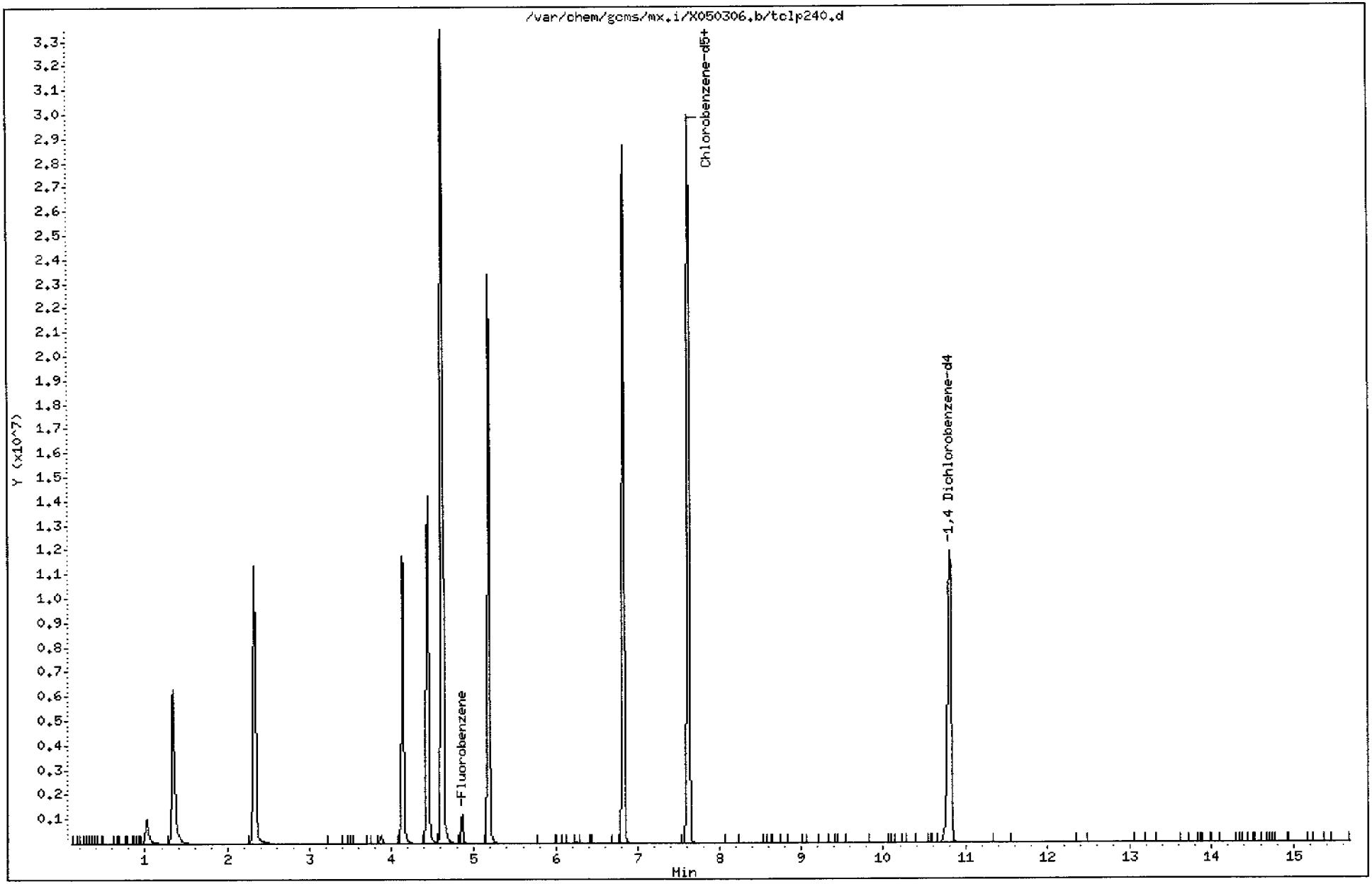
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050306.b/tclp240.d
Date : 03-MAY-2006 16:32
Client ID: VSTD240
Sample Info: TCLP240,1,1,9,,VSTD240,

Column phase: J+W 624

Instrument: mx.i

Operator: 60487
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/tclp320.d
Report Date: 09-May-2006 12:21

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/tclp320.d
Lab Smp Id: TCLP320 Client Smp ID: VSTD320
Inj Date : 03-MAY-2006 16:59
Operator : 60487 Inst ID: mx.i
Smp Info : TCLP320,1,1,10,,VSTD320,
Misc Info : X050306,8260B_LM,clbz.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 12:20 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 16:59 Cal File: tclp320.d
Als bottle: 23 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	937364	10.0000	
* 2 Chlorobenzene-d5	119	7.589	7.582	(1.000)	178088	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.758	10.740	(1.000)	174020	10.0000	
57 Tetrachloroethene	164	6.834	6.816	(0.901)	7758092	320.000	308.83(A)
62 Chlorobenzene (spcc)	112	7.619	7.607	(1.004)	16807848	320.000	285.29(A) ← slight saturation

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

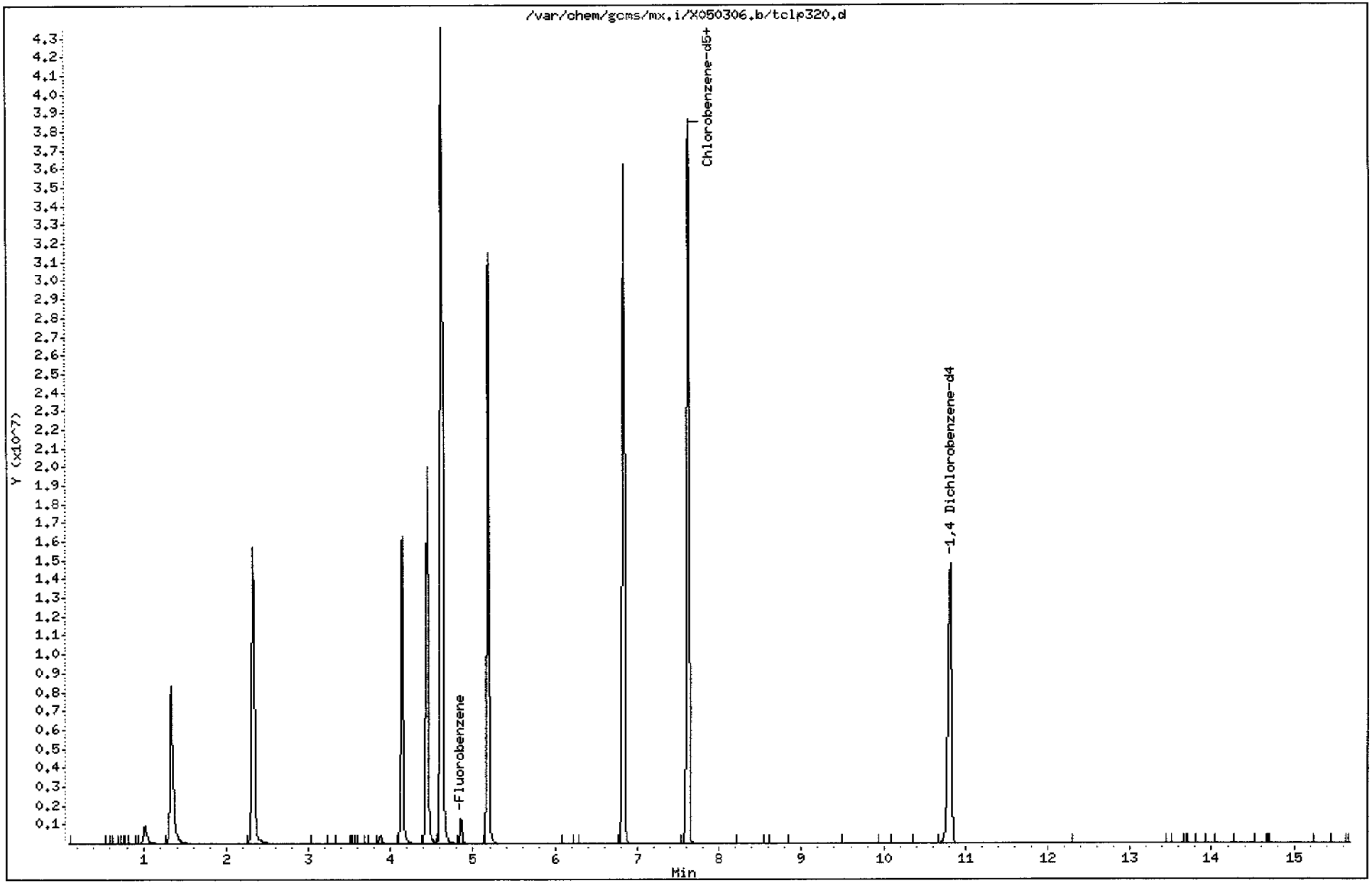
Data File: /var/chem/gcms/mx.i/X050306.b/tclp320.d
Date : 03-MAY-2006 16:59
Client ID: VSTD320
Sample Info: TCLP320,1,1,10,,VSTD320,

Instrument: mx.i

Operator: 60487

Column phase: J+W 624

Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/ccvxe033.d
Report Date: 09-May-2006 12:24

8260 std processed as 2nd source against new curve
JWS 5/9/06

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/ccvxe033.d
Lab Smp Id: CCVXE033 Client Smp ID: VSTD010
Inj Date : 03-MAY-2006 14:45
Operator : 60487 Inst ID: mx.i
Smp Info : CCVXE033,1,2,3,,VSTD010
Misc Info : X050306,8260B_LM,1-all.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 12:24 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 16:59 Cal File: tclp320.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
* 1 Fluorobenzene	96	4.852	4.852	(1.000)	1027267	10.0000		
* 2 Chlorobenzene-d5	119	7.584	7.584	(1.000)	184227	10.0000		
* 3 1,4 Dichlorobenzene-d4	152	10.741	10.741	(1.000)	189905	10.0000		
57 Tetrachloroethene	164	6.817	6.817	(0.899)	245047	10.0000	9.4297	= 94%
62 Chlorobenzene (spcc)	112	7.608	7.608	(1.003)	600699	10.0000	9.8564	= 99%

calc

Data File: /var/chem/gcms/mx.i/X050306.b/ccvxe033.d
Report Date: 09-May-2006 12:24

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: ccvxe033.d
Lab Smp Id: CCVXE033
Analysis Type: VOA
Quant Type: ISTD
Operator: 60487
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X050306,8260B_LM,1-all.sub

Calibration Date: 03-MAY-2006
Calibration Time: 15:12
Client Smp ID: VSTD010
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	954873	477436	1909746	1027267	7.58
2 Chlorobenzene-d5	176393	88196	352786	184227	4.44
3 1,4 Dichlorobenze	181219	90610	362438	189905	4.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.02
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.01
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.74	0.01

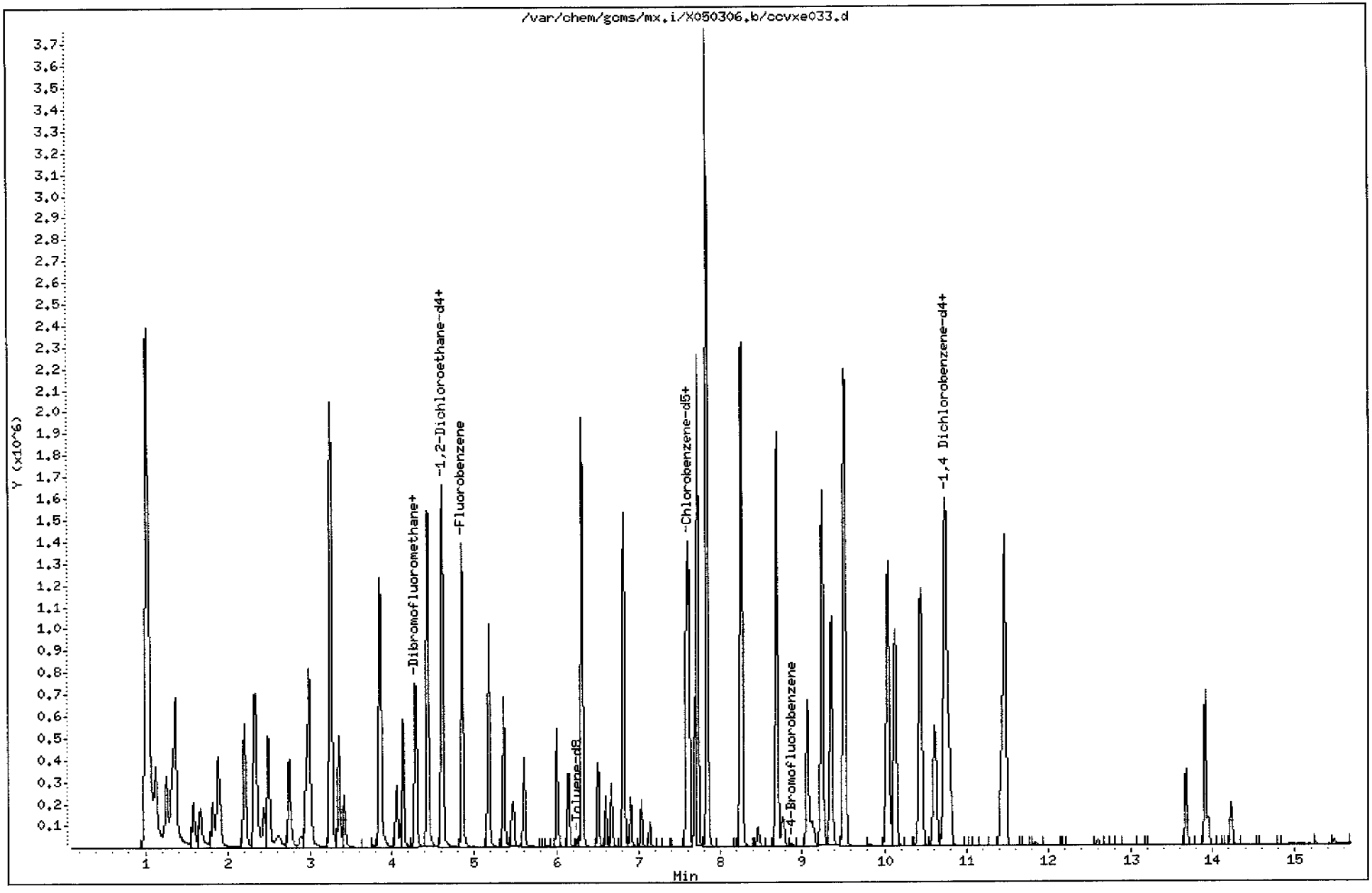
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/ccvxe033.d
Date : 03-MAY-2006 14:45
Client ID: VSTD010
Sample Info: CCVXE033,1,2,3,,VSTD010

Instrument: mx.i

Operator: 60487
Column diameter: 0.18

Column phase: J+W 624



STL Volatile GC/MS Continuing Calibration Review / Narrative Checklist
Method: 8260B - KNOX-MS-0015, Rev. 8

Analysis Date:	4/7/06	CCAL Batch/ Scan Name:	X040706 R (* see comments)	Instrument:	MX	ICAL Batch/ Scan Name:	X050306	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		☐*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?	✓				NA
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		☐ %D or drift > 50% for the following TCLs: _____	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate	✓				NA
• cis- and trans- isomers					NA
• trichlorofluoromethane and Freon 113					NA
• ethyl benzene / m/p-xylene / o-xylene					NA
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene					NA
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene					NA
• 1,3- , 1,4- , and 1,2-dichlorobenzene					NA
• 1,2,4 and 1,2,3 -trichlorobenzene					NA
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?		✓		08-06213 - see comment	✓
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst:	Date: 5/10/06	2nd Level Reviewer :	Date: 05/00/06
Comments: CCV & five samples from lot HGD030169 were copied from batch X040706 to batch X050306. These files were processed against the new extended calibration ranges (method: clbz.m). See NCM 08-06213. This C.Cal data scanned as X040706 R to signify the original batch data had been Reprocessed (for chlorobenzene & tetrachloroethene only). New cal range in same batch X050306		Comments:	

STL Knoxville GC/MS Volatiles Run Log - Instrument MX

Target Batch	X040706 86 (DW 4.14.06)	XXXXXXXXX	XXXXXXXXX	Loop #	1	2
QuantIMS Batch	6097054	—	—	Standard ID	VOA6495	VOA6494
Method	VOST	XXXXXXXXX	XXXXXXXXX	Matrix	25mL	25mL VOST
SOP#	KNOX.MS-0011	XXXXXXXXX	XXXXXXXXX	IS Amt	0.964mL	0.939mL
Intitial Cal Batch	X021506T	XXXXXXXXX	XXXXXXXXX	SS Amt	↓	5 DWL VOA6495
CCAL IS Areas	1149191	214194	242601	Heated?		Y N

☒ Date/Time Verified Preventive Maintenance Performed ☐ NA or ☒ Chromat Transfer line + Trap heater + Inj. liner + Septa (4/5/06)

Lot	Lab File ID	Time	ALS #	Loop #	~~Solatek~~ Archive Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Trim	15K13X1D07	0859	—	—	~~1~~ 1/2	1	1.0mL	NA	✓	1.0mL VOA6493
CCV	CCVX1D073	0916	18	1	~~1~~ 1	1	25mL			5.0mL VOA6496 → 50mL
LCS	H2KM11AC	1002	1	2	1					2.5mL VOA6496
LCSD	1AD	1033	2							↓ ↓
BLK	BLK1	1104	3							
↓	H2KM11AA	1131	4							
H6D0316	H2G871AA	1206	5							
	9A	1232	6							
	9E	1259	7							
	9W	1325	8							
	97	1351	9							
	99	1417	10							
	H2HG11AA	1443	11							
	CM	1510	12							
	CP	1538	13							15mL
	~~H2KHL1AA~~									~~H2KHL1AA~~
	~~HX~~									4/7/06
	~~HW~~									
	BLK2	1609	14							
	H2KH11AA	1801	15 18						✓	
	HX	1834	16 19							
	HW	1869	17 20							4/7/06
	HV	1904	18 21							
	HR	1949	19 22							
	HL	2014	20 23							
	~~H2HC01AA~~									4/7/06
	H2HC11AA	1637	15							Archive
	H2AC01AA	1703	16							↓ 'E'
BLK	BLK3	1734	17							

Analyst/Date: 4/10/06

Data File: /var/chem/gcms/mx.i/X040706.b/bfbxd07.d

Date : 07-APR-2006 08:59

Client ID: TUNE

Instrument: mx.i

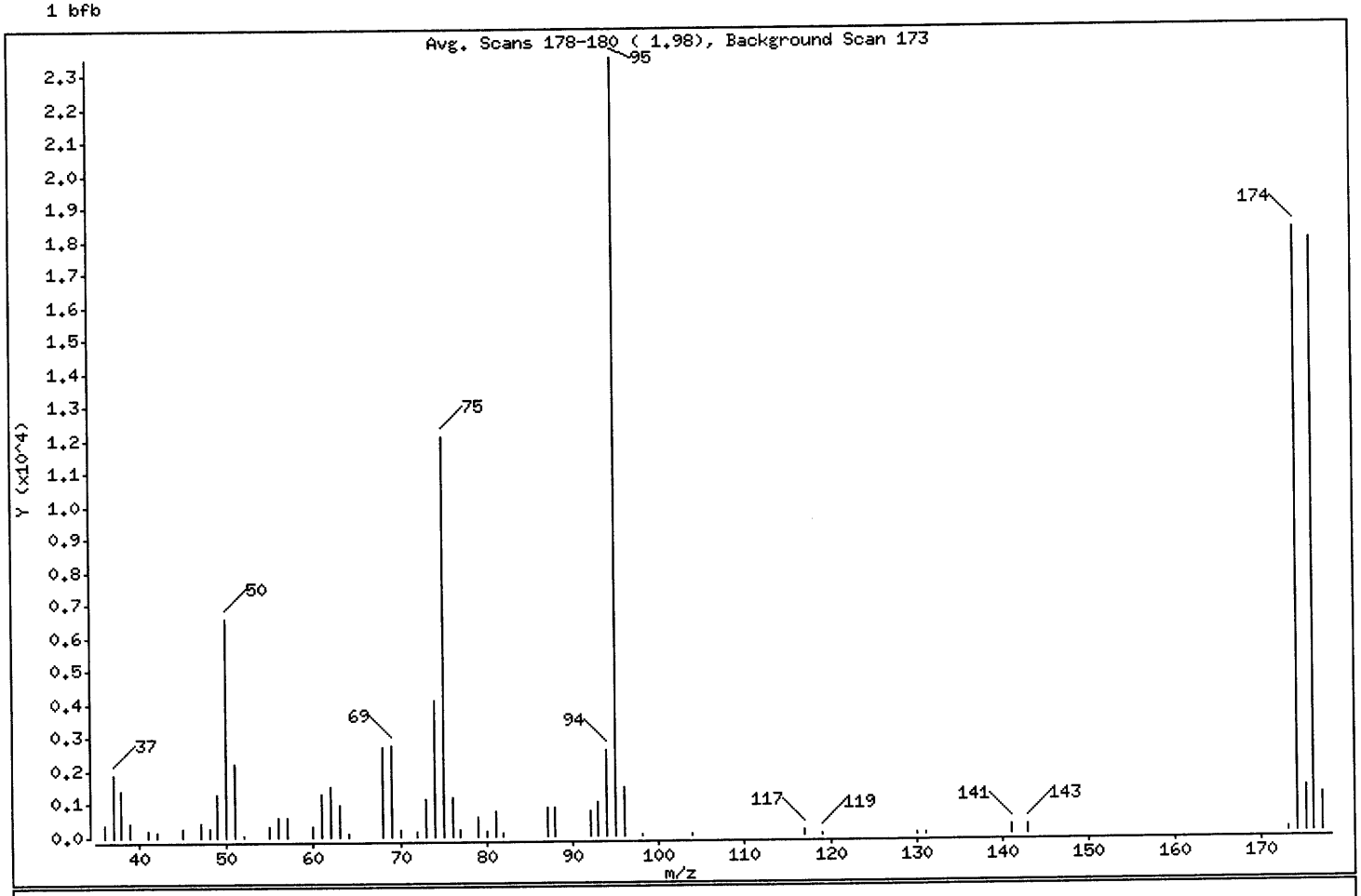
Sample Info: BFBXD07,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.95
75	30.00 - 60.00% of mass 95	51.57
96	5.00 - 9.00% of mass 95	6.19
173	Less than 2.00% of mass 174	0.49 (0.63)
174	50.00 - 120.00% of mass 95	77.47
175	5.00 - 9.00% of mass 174	5.63 (7.27)
176	95.00 - 101.00% of mass 174	76.16 (98.31)
177	5.00 - 9.00% of mass 176	4.77 (6.27)

Data File: /var/chem/gcms/mx.i/X040706.b/bfbxd07.d

Date : 07-APR-2006 08:59

Client ID: TUNE

Instrument: mx.i

Sample Info: BFBXD07,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

Data File: bfbxd07.d
Spectrum: Avg. Scans 178-180 (1.98), Background Scan 173
Location of Maximum: 95.00
Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	356	56.00	594	76.00	1181	104.00	64
37.00	1885	57.00	592	77.00	192	117.00	150
38.00	1408	60.00	302	79.00	614	119.00	62
39.00	412	61.00	1271	80.00	140	130.00	51
41.00	192	62.00	1489	81.00	738	131.00	56
42.00	163	63.00	963	82.00	125	141.00	277
45.00	283	64.00	103	87.00	850	143.00	294
47.00	433	68.00	2706	88.00	877	173.00	114
48.00	296	69.00	2736	92.00	764	174.00	18208
49.00	1319	70.00	224	93.00	1028	175.00	1324
50.00	6569	72.00	145	94.00	2617	176.00	17896
51.00	2238	73.00	1115	95.00	23504	177.00	1122
52.00	67	74.00	4101	96.00	1456		
55.00	347	75.00	12121	98.00	56		

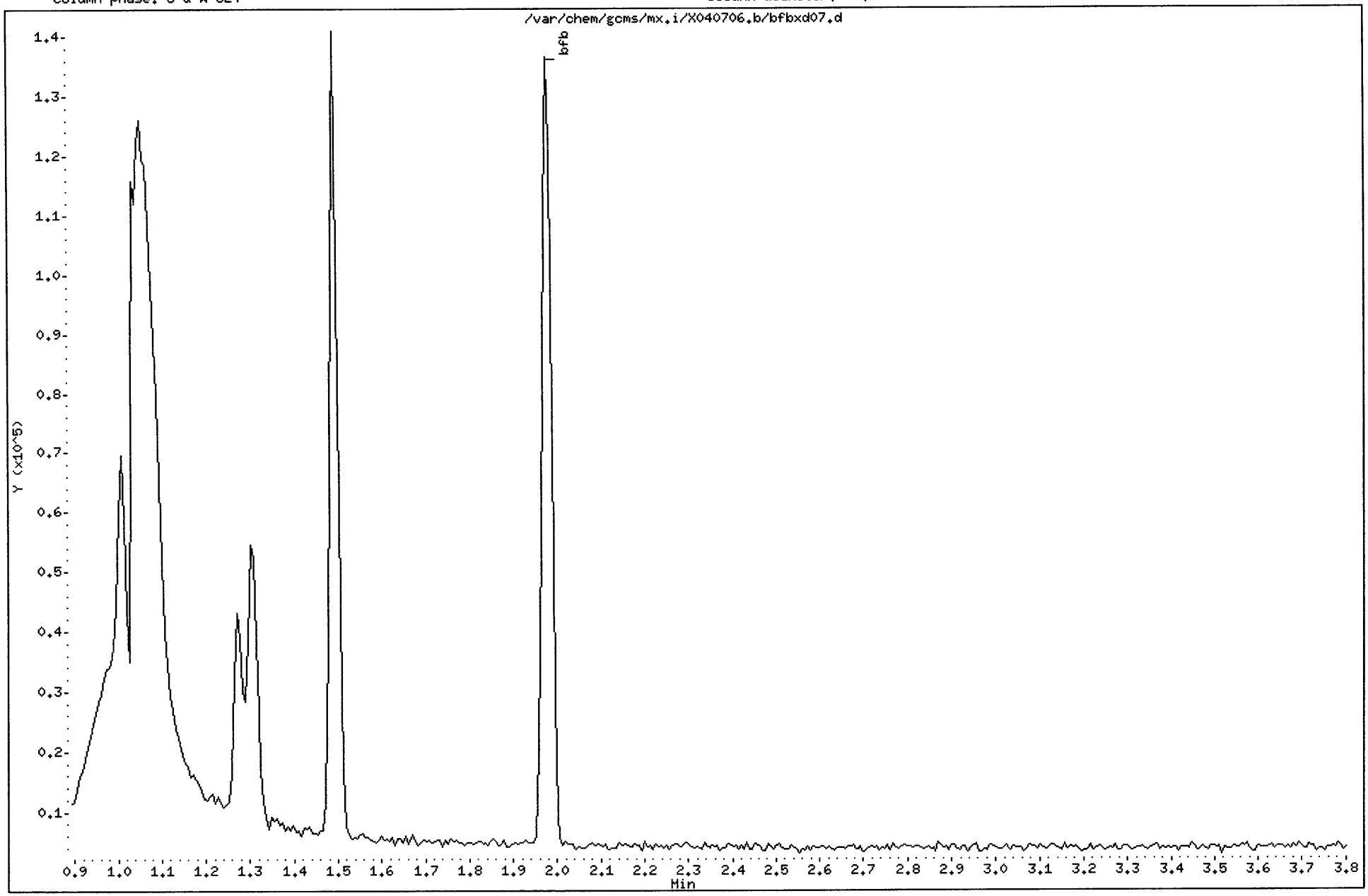
Data File: /var/chem/gcms/mx.i/X040706.b/bfbxd07.d
Date : 07-APR-2006 08:59
Client ID: TUNE
Sample Info: BFBXD07,1,3,,BFB,TUNE

Instrument: mx.i

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/ccvxd073.d
Report Date: 09-May-2006 16:11

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxd073.d
Analysis Type: WATER
Lab Sample ID: CCVXD073
Method: /var/chem/gcms/mx.i/X050306.b/clbz.m

Injection Date: 07-APR-2006 09:16
Init. Cal. Date(s): 03-MAY-2006 03-MAY-2006
Init. Cal. Times: 15:12 ✓ 16:59
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 Tetrachloroethene	✓ 1.41059	✓ 1.31735	1.31735	0.000	6.60977	50.00000	Averaged
62 Chlorobenzene (spcc)	3.30815	3.19686	3.19686	0.300	3.36398	50.00000	Averaged

this calibration analyzed on 4/7/06 copied to X050306 & requantitated against new extended calibration curve that was analyzed on 5/3/06. This is to show good %D on the new curve.
JWS 5/10/06

Data File: /var/chem/gcms/mx.i/X050306.b/ccvxd073.d
Report Date: 09-May-2006 16:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/ccvxd073.d
Lab Smp Id: CCVXD073 Client Smp ID: VSTD010
Inj Date : 07-APR-2006 09:16
Operator : 22980 Inst ID: mx.i
Smp Info : CCVXD073,1,2,3,,VSTD010
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 16:11 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

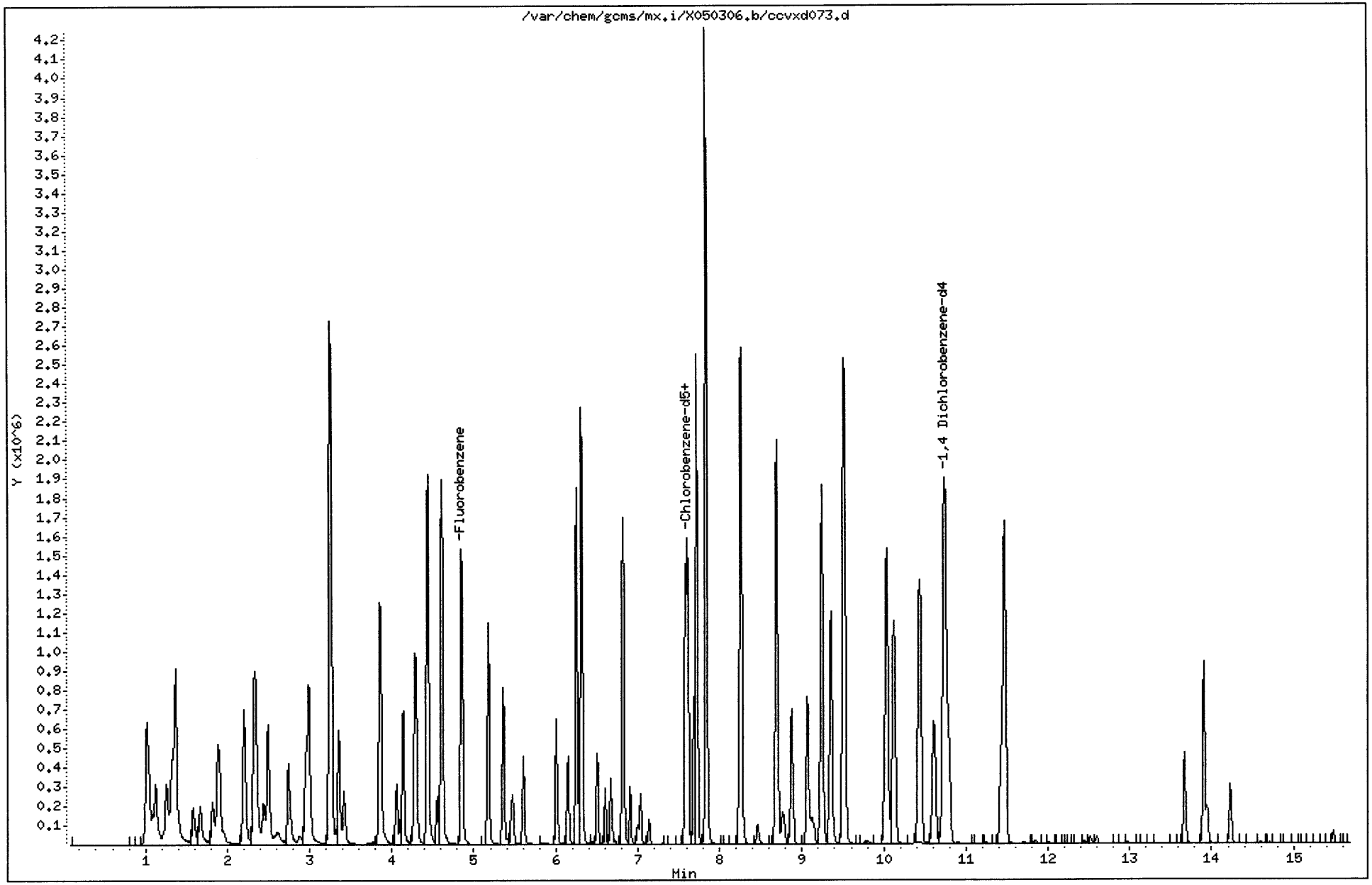
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	1149191	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	214194	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.746	10.746	(1.000)	242601	10.0000	
57 Tetrachloroethene	164	6.816	6.816	(0.899)	282169	10.0000	9.3390
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	684750	10.0000	9.6636

Data File: /var/chem/gcms/mx.i/X050306.b/ccvxd073.d
Date : 07-APR-2006 09:16
Client ID: VSTD010
Sample Info: CCVXD073,1,2,3,,VSTD010
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



STL Volatile GC/MS Continuing Calibration Review / Narrative Checklist
Method: 8260B - KNOX-MS-0015, Rev. 8

Analysis Date:	5/9/06	CCAL Batch/ Scan Name:	X050906	Instrument:	MX	ICAL Batch/ Scan Name:	X050306	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		□*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?	✓				NA
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		□ %D or drift > 50% for the following TCLs: _____	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate	✓				NA
• cis- and trans- isomers					NA
• trichlorofluoromethane and Freon 113					NA
• ethyl benzene / m/p-xylene / o-xylene					NA
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene					NA
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene					NA
• 1,3- , 1,4- , and 1,2-dichlorobenzene					NA
• 1,2,4 and 1,2,3 -trichlorobenzene					NA
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?		✓		NCM 08-06213 - see comment	✓
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst: RW	Date: 5/10/06	2nd Level Reviewer : [illegible]	Date: 05/10/06
Comments:		**Comments:**	

This CCV @ 240 µg/L for clbz & PCE only. Compared/quantitated against new curve for these 2 analytes on extended range. See NCM 08-06213 for discussion of requantitation samples from lot H6D030169. (New curve = X050306; clbz.m)

STL Knoxville GC/MS Volatiles Run Log - Instrument MX

Target Batch	X050906	XXXXXXXXX	XXXXXXXXX	Loop #	—	1
QuantIMS Batch	—	—	—	Standard ID	—	VOA 6527
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	—	VOST
SOP#	Knoxms0015	XXXXXXXXX	XXXXXXXXX	IS Amt	—	0.969ml
Intitial Cal Batch	X021506I	XXXXXXXXX	XXXXXXXXX	SS Amt	—	—
CCAL IS Areas	1474532	298122	319423	Heated?	Clamshell	(Y) N

☑ Date/Time Verified Preventive Maintenance Performed ☑NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFBXE09	1710	—	1	1	1	—	NA	MT	1ml VOA 6532
CCV	CCVXE093	1734	18	1	↓	↓	25mL	↓	↓	60ml VOA 6531
BIK	BIK1	1801	19	↓	↓	↓	↓	↓	↓	
VOST	VOSTSPK	1936	20	↓	↓	↓	↓	↓	↓	30ml VOA 6531 + 5ml VOA 6532 Flush
↓	VOSTSPK2	2032	21	↓	↓	↓	↓	↓	↓	↓ direct inj.

MT 5/9/06

Analyst/Date: MT 5/9/06 / _____

Data File: /var/chem/gcms/mx.i/X050906.b/bfbxe09.d

Date : 09-MAY-2006 17:10

Client ID: TUNE

Instrument: mx.i

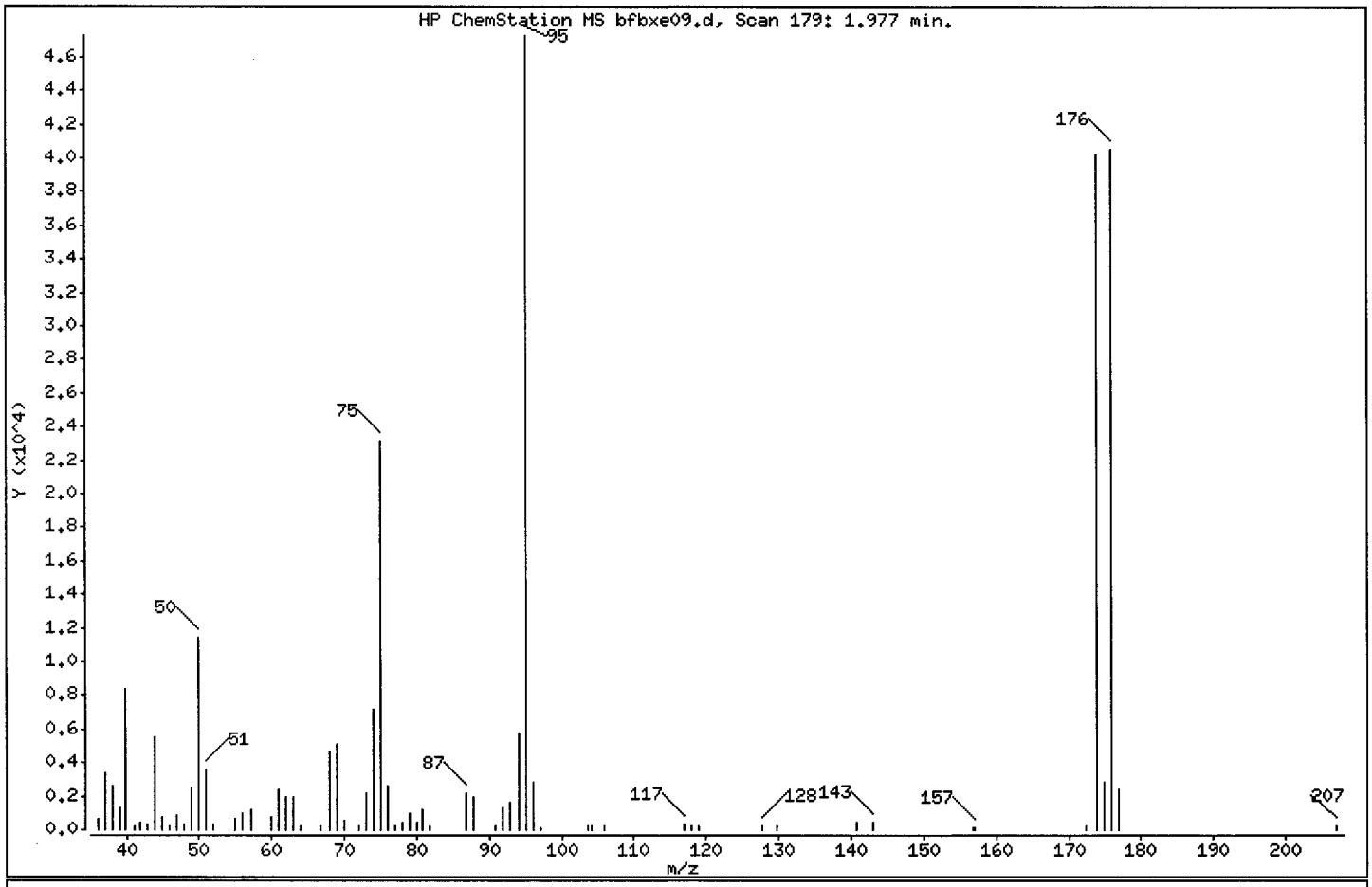
Sample Info: BFBXE09,1,3,,BFB,TUNE

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.03
75	30.00 - 60.00% of mass 95	48.97
96	5.00 - 9.00% of mass 95	5.89
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	85.08
175	5.00 - 9.00% of mass 174	6.09 (7.15)
176	95.00 - 101.00% of mass 174	85.74 (100.78)
177	5.00 - 9.00% of mass 176	5.01 (5.84)

Data File: /var/chem/gcms/mx.i/X050906.b/bfbxe09.d

Date : 09-MAY-2006 17:10

Client ID: TUNE

Instrument: mx.i

Sample Info: BFBXE09,1,3,,BFB,TUNE

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

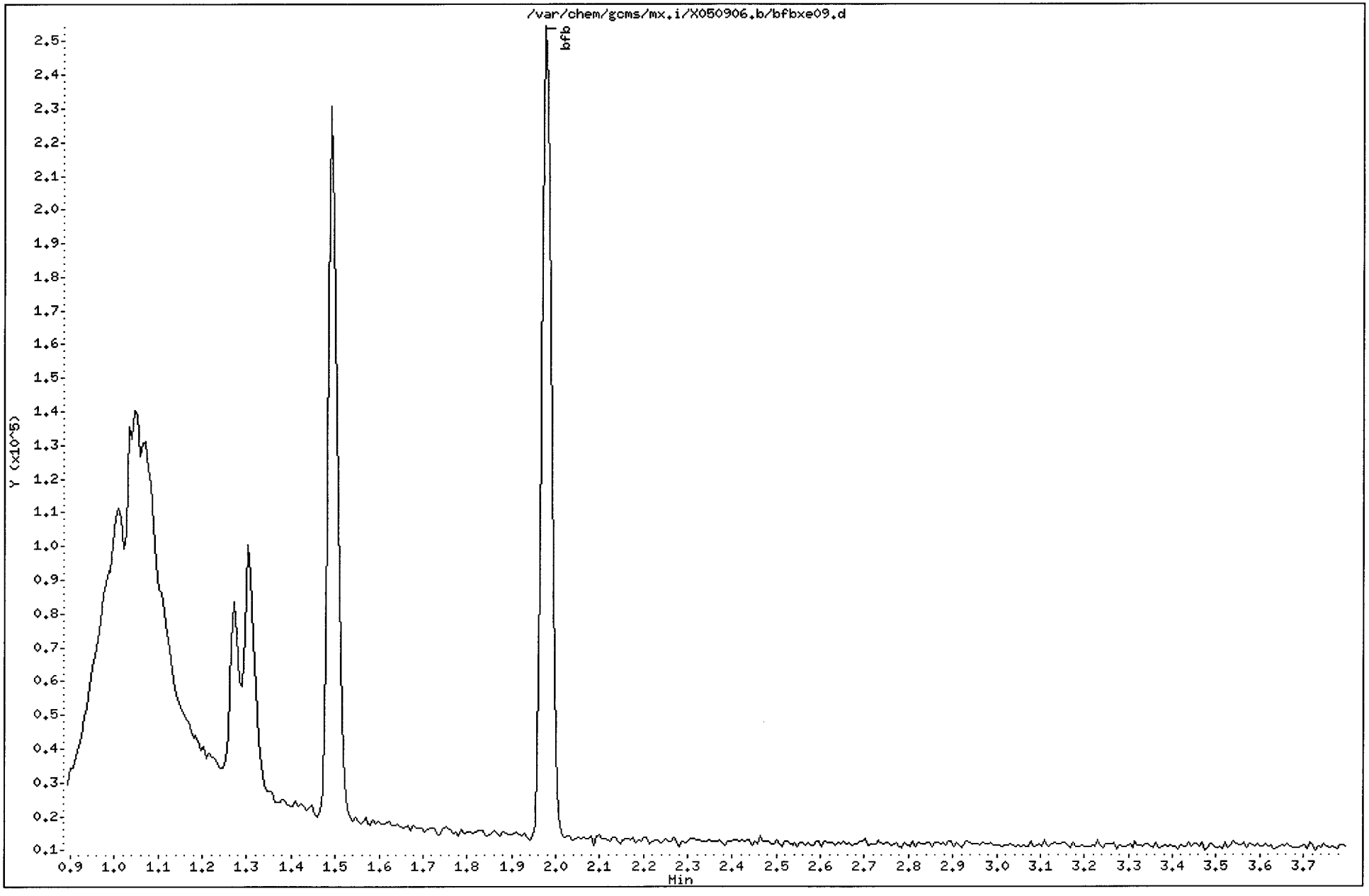
Data File: bfbxe09.d
Spectrum: HP ChemStation MS bfbxe09.d, Scan 179: 1.977 min.
Location of Maximum: 95.00
Number of points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	617	55.00	664	77.00	260	105.80	219
37.00	3372	55.90	1028	78.10	424	116.80	296
38.00	2594	57.10	1150	78.90	933	117.90	192
39.00	1327	60.00	748	79.90	417	118.90	188
39.90	8334	60.90	2406	80.80	1214	127.80	213
41.00	249	62.00	1944	81.90	222	129.80	190
42.00	421	63.00	1935	86.90	2158	140.80	397
43.00	357	64.00	191	87.90	1920	143.00	461
43.90	5514	66.80	180	90.80	166	156.80	153
44.90	736	67.90	4646	91.90	1265	157.00	157
46.00	185	69.00	5100	92.90	1655	172.40	254
47.00	842	70.00	531	94.00	5717	173.90	40240
47.80	283	71.90	198	95.00	47296	174.90	2878
49.00	2533	72.90	2183	96.00	2788	175.90	40552
50.00	11365	73.90	7211	97.00	151	176.90	2368
51.00	3622	75.00	23160	103.70	228	207.00	173
51.90	310	76.00	2626	104.00	264		

Data File: /var/chem/gcms/mx.i/X050906.b/bfbxe09.d
Date : 09-MAY-2006 17:10
Client ID: TUNE
Sample Info: BFBXE09,1,3,,BFB,TUNE

Instrument: mx.i

Operator: 063605
Column phase: J & W 624
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X050906.b/ccvxe093.d
Report Date: 09-May-2006 17:50

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxe093.d
Analysis Type: AIR
Lab Sample ID: CCVXE093
Method: /chem/gcms/mx.i/X050906.b/clbz.m

Injection Date: 09-MAY-2006 17:34
Init. Cal. Date(s): 03-MAY-2006 03-MAY-2006
Init. Cal. Times: 15:12 16:59
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF0.000	CCAL RRF0.000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 Tetrachloroethene	1.41059	1.23886	1.23886	0.000	12.17409	50.00000	Averaged
62 Chlorobenzene (spcc)	3.30815	2.52955	2.52955	0.300	23.53591	50.00000	Averaged

Data File: /chem/gcms/mx.i/X050906.b/ccvxe093.d
Report Date: 09-May-2006 17:50

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X050906.b/ccvxe093.d
Lab Smp Id: CCVXE093 Client Smp ID: VSTD~~010~~ 240
Inj Date : 09-MAY-2006 17:34
Operator : 063605 Inst ID: mx.i
Smp Info : CCVXE093,1,2,3,,VSTD~~010~~ 240
Misc Info : X050906,clbz,clbz.sub
Comment :
Method : /chem/gcms/mx.i/X050906.b/clbz.m
Meth Date : 09-May-2006 17:50 chemist Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.852	4.852	(1.000)	1474532	10.0000	
* 2 Chlorobenzene-d5	119	7.589	7.589	(1.000)	298122	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.753	10.753	(1.000)	319423	10.0000	
57 Tetrachloroethene	164	6.829	6.829	(0.900)	8863988	240.000	210.78(A)
62 Chlorobenzene (spcc)	112	7.614	7.614	(1.003)	18098771	240.000	183.51(A)

barely saturated

QC Flag Legend

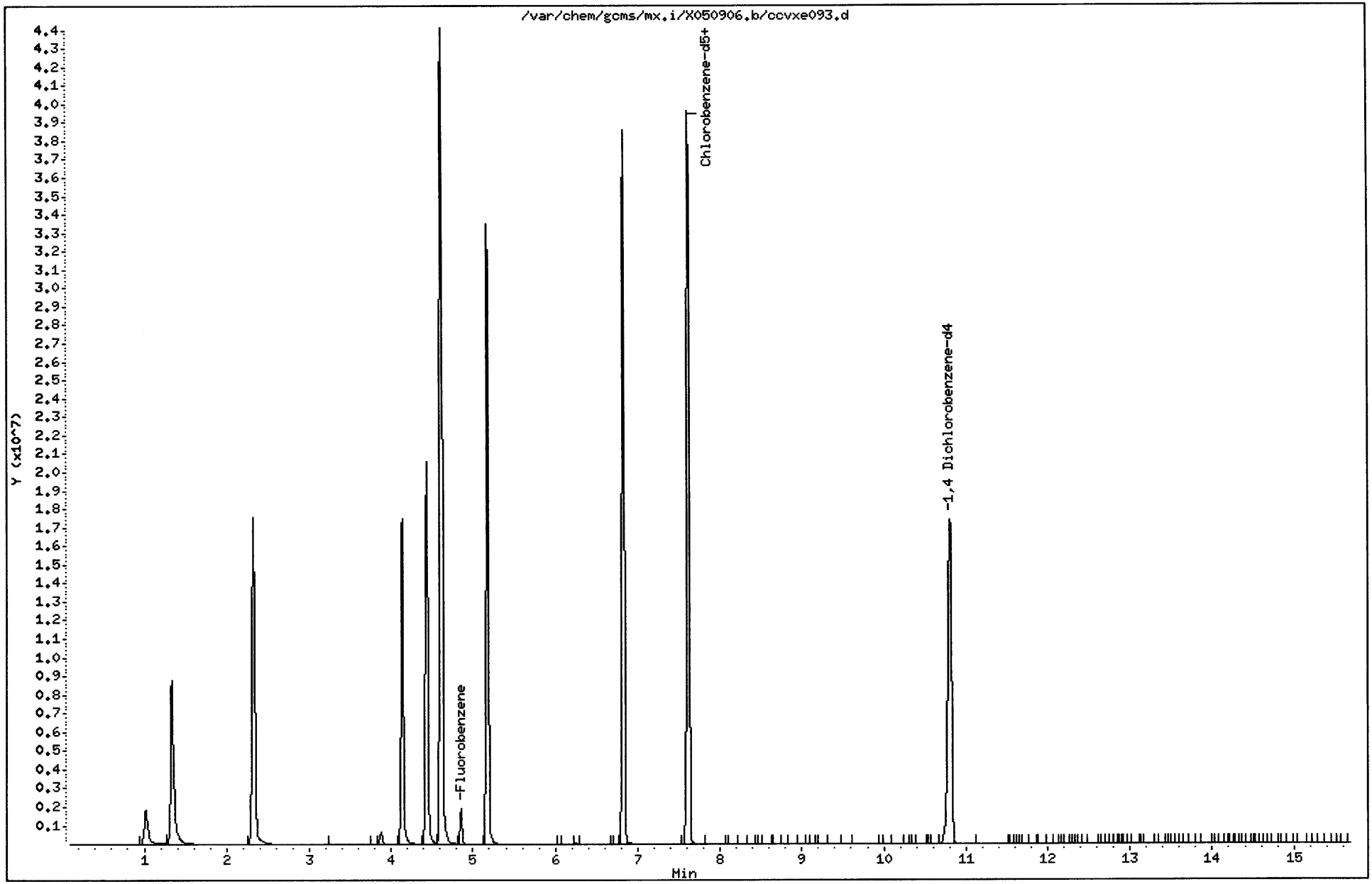
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mx.i/X050906.b/ccvxe093.d
Date : 09-MAY-2006 17:34
Client ID: VSTD010
Sample Info: CCVXE093,1,2,3,,VSTD010

Instrument: mx.i

Operator: 063605
Column diameter: 0.18

Column phase: J+W 624



Raw QC Data

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER
MB Lot-Sample #: H6D050000-253

Prep Date.....: 04/05/06
Analysis Date..: 04/05/06 **Prep Batch #...:** 6095253
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	2.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	**0.55 J**	**2.0**	**ug/L**	**SW846 8260B**
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	4.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	**0.26 J**	**1.0**	**ug/L**	**SW846 8260B**
1,2,4-Trichloro-benzene	**0.15 J**	**1.0**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	105	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D050000-253 B **Work Order #:** H2MQQ1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Lab Smp Id: H2MQQ1AA
Client Smp ID: INTRA-LAB BLANK
Inj Date : 05-APR-2006 15:52
Operator : 063605
Inst ID: mz.i
Smp Info : H2MQQ1AA,1,3,,BLANK
Misc Info : Z040506,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm
Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51
Cal File: icvzc248.d
Als bottle: 1
QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

04/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.669	5.667	(1.000)	1078768	10.0000	
* 2 Chlorobenzene-d5	119	8.930	8.933	(1.000)	190004	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.485	11.488	(1.000)	227067	10.0000	
$ 4 Dibromofluoromethane	113	4.830	4.821	(0.852)	184371	10.6661	10.666
$ 5 1,2-Dichloroethane-d4	65	5.237	5.229	(0.924)	156720	10.4845	10.484
$ 6 Toluene-d8	98	7.458	7.455	(0.835)	864522	10.3555	10.355
$ 7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	219161	9.57046	9.5705
15 Bromomethane	94	1.417	1.414	(0.250)	1219	~~0.94027~~	~~0.94027~~
22 Acetone	43	2.122	2.126	(0.374)	1374	~~3.46147~~	~~3.4615~~
23 *Iodomethane	142	2.189	2.181	(0.386)	701	0.54716	0.54716
26 *Acetonitrile	40	2.421	2.369	(0.427)	801	~~1.66860~~	~~1.6686~~
34 *Vinyl Acetate	86	3.132	3.397	(0.553)	371	~~0.25860~~	0.25860
45 1,2-Dichloroethane	62	5.675	5.326	(1.001)	16265	~~0.72201~~	0.72201
53 4-Methyl-2-pentanone	43	7.458	7.376	(1.315)	6211	~~0.65940~~	~~0.65940~~

MT 4/6/06

NA

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
55 trans-1,3-Dichloropropene	75	7.476	7.784	(0.837)	124	~~0.63249~~	0.63248
69 Bromoform (spcc)	173	10.104	9.779	(1.131)	93	~~0.83219~~	~~0.83219~~
89 1,2,4-Trichlorobenzene	180	14.295	14.293	(1.245)	2743	0.15436	0.15436
90 Hexachlorobutadiene	225	14.521	14.524	(1.264)	1874	0.11247	0.11247
92 1,2,3-Trichlorobenzene	180	14.819	14.816	(1.290)	3052	0.26076	0.26076

MT 4/6/06

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2mqq1aa.d
Lab Smp Id: H2MQQ1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,all.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	1078768	0.01
2 Chlorobenzene-d5	188899	94450	377798	190004	0.58
3 1,4 Dichlorobenze	220143	110072	440286	227067	3.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.05
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.03

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.

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

STL Knoxville

RECOVERY REPORT

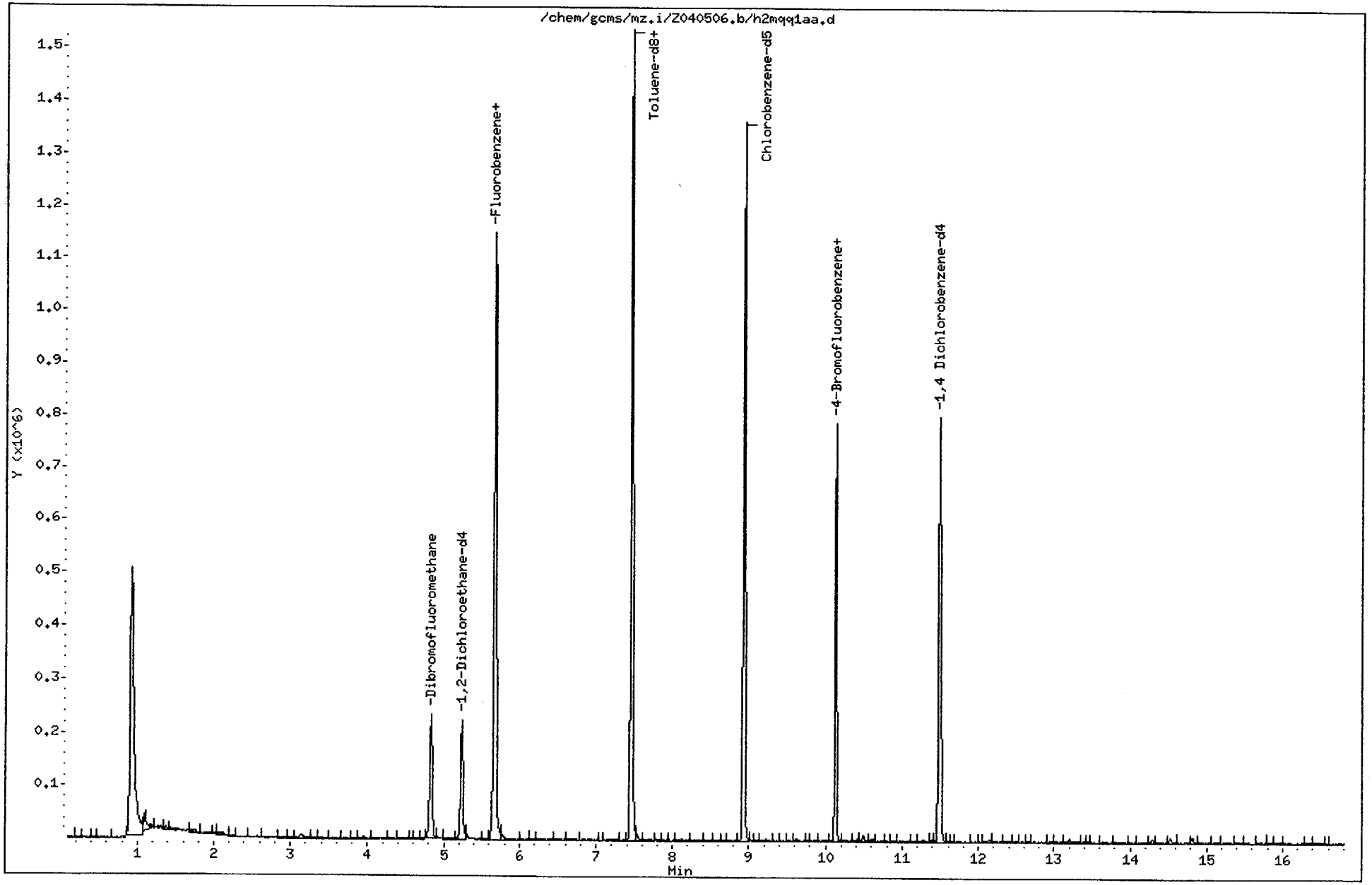
Client Name:
Sample Matrix: LIQUID
Lab Smp Id: H2MQQ1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: all.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,all.sub

Client SDG: H6D050000
Fraction: VOA
Client Smp ID: INTRA-LAB BLANK
Operator: 063605
SampleType: METHOD BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	10.000	10.666	106.66	79-120
$ 5 1,2-Dichloroethane	10.000	10.484	104.84	71-127
$ 6 Toluene-d8	10.000	10.355	103.55	80-120
$ 7 4-Bromofluorobenze	10.000	9.5705	95.70	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Date : 05-APR-2006 15:52
Client ID: INTRA-LAB BLANK
Sample Info: H2MQQ1AA,1,3,,BLANK
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

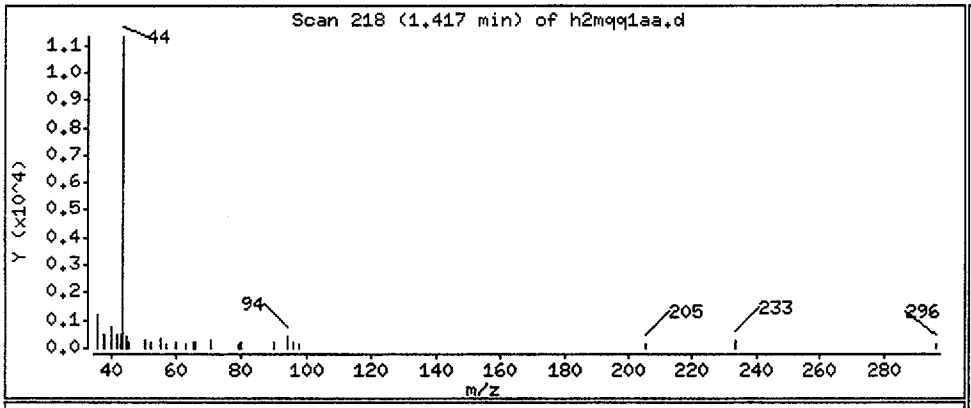
Operator: 063605

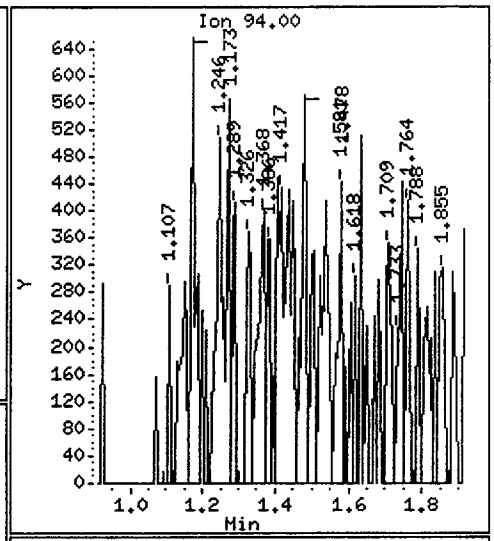
Column phase: J+W 624

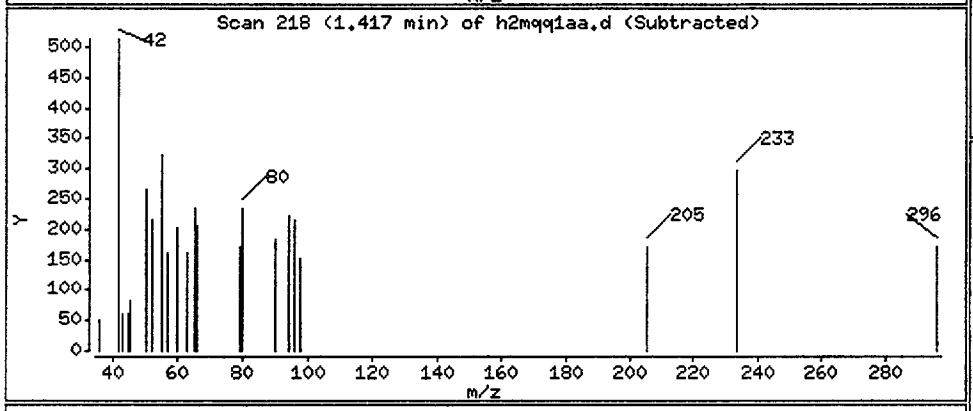
Column diameter: 0.18

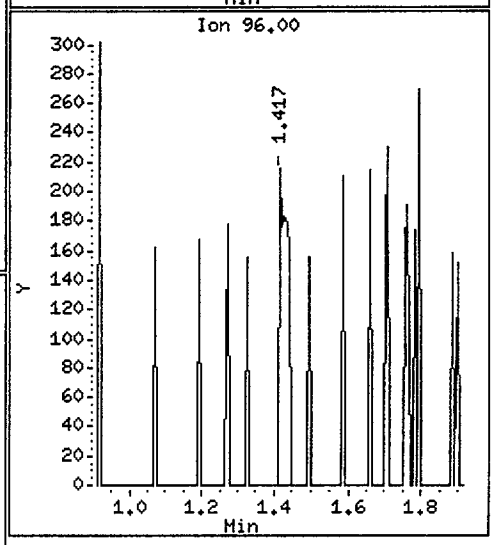
15 Bromomethane

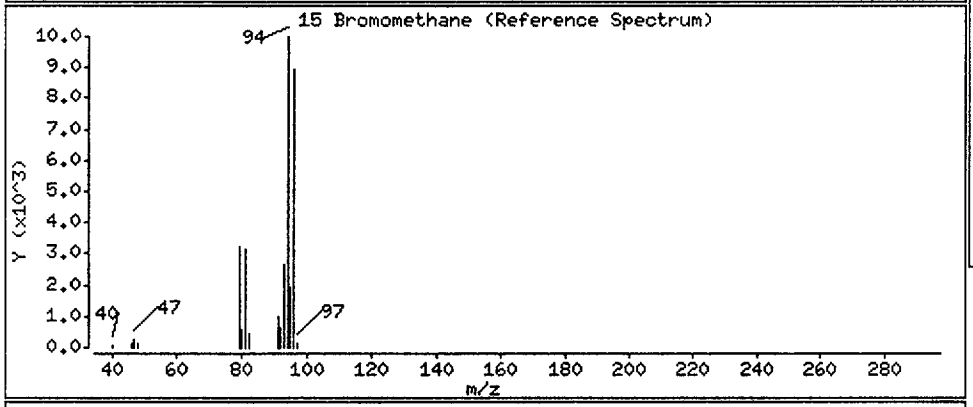
Concentration: 0.94027 ug/L

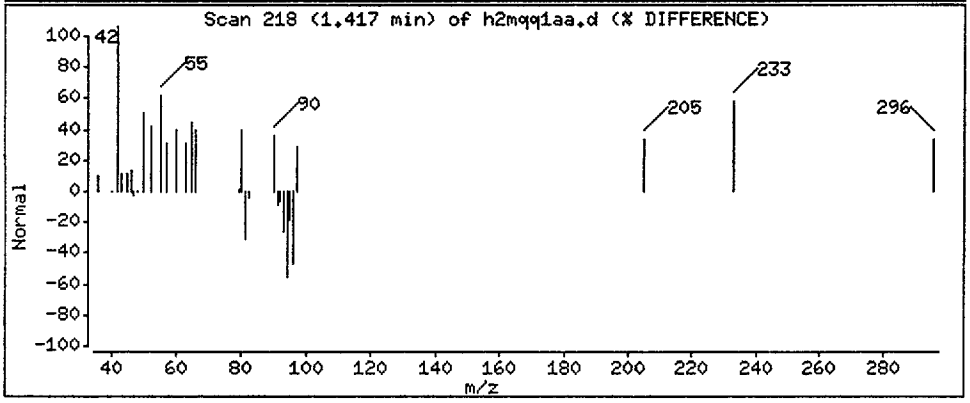












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

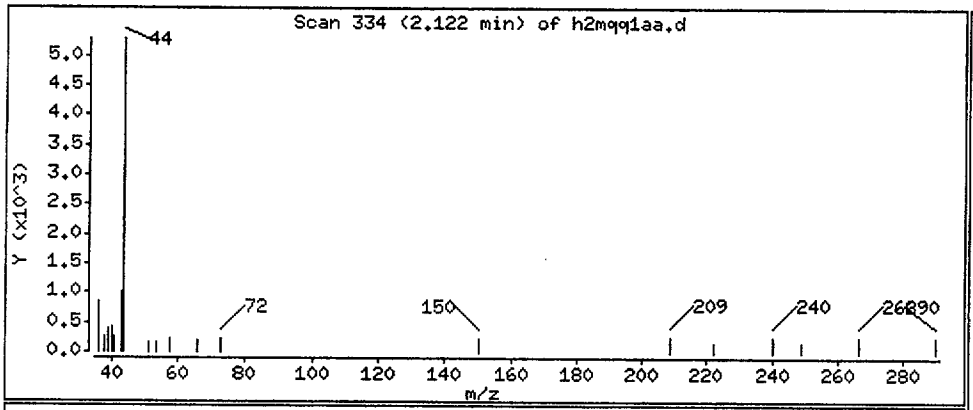
Operator: 063605

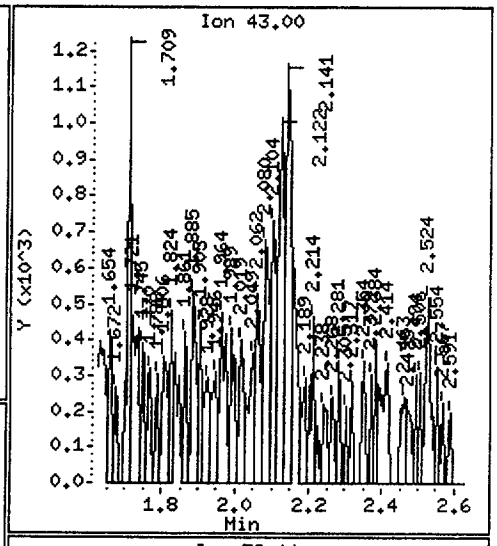
Column phase: J+W 624

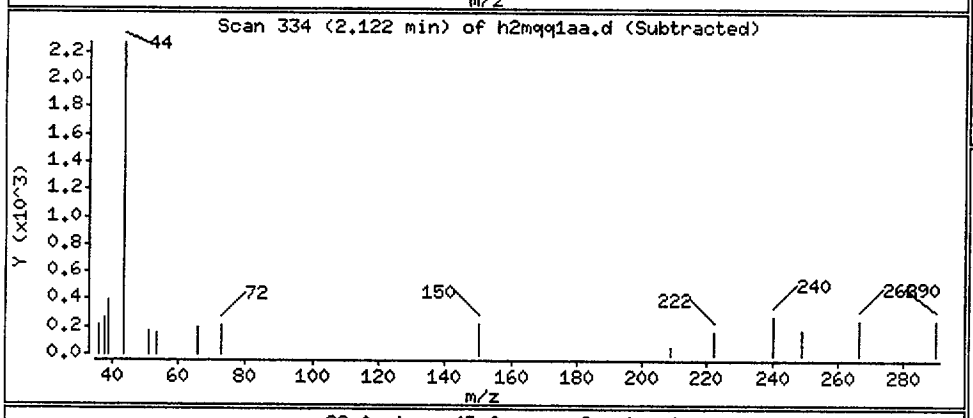
Column diameter: 0.18

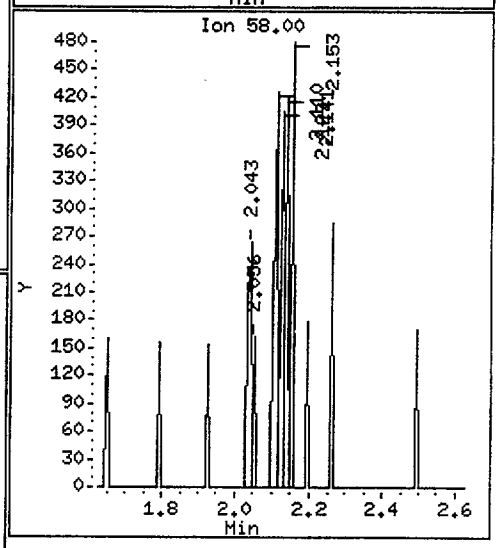
22 Acetone

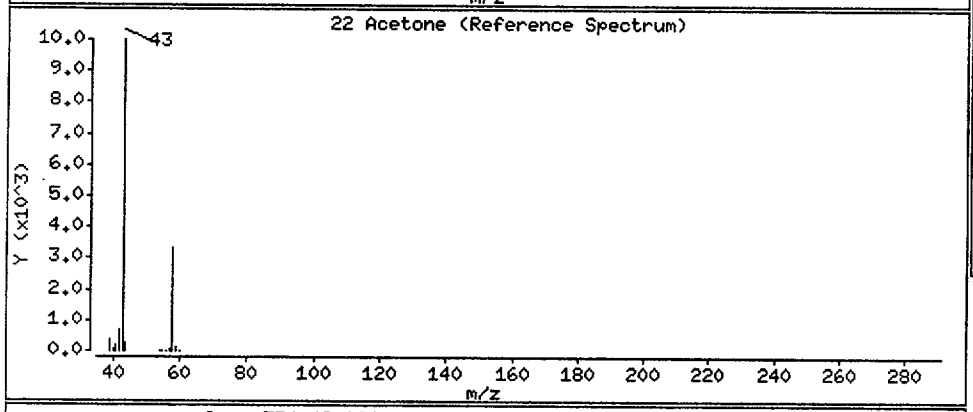
Concentration: 3.4615 ug/L

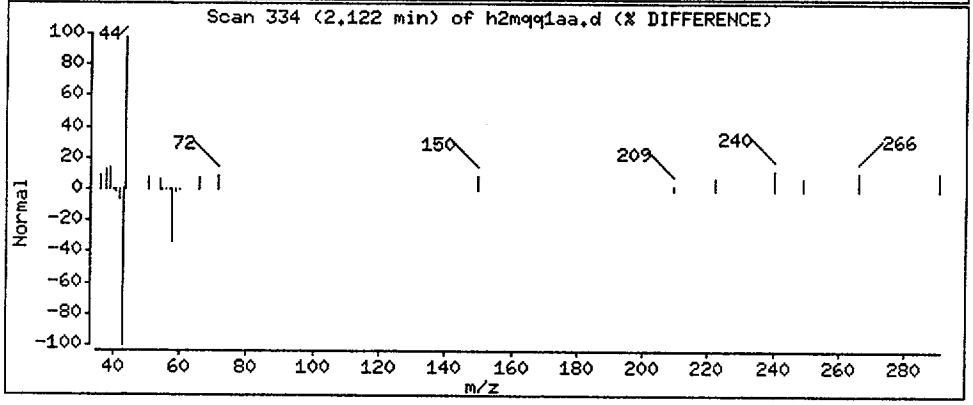












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

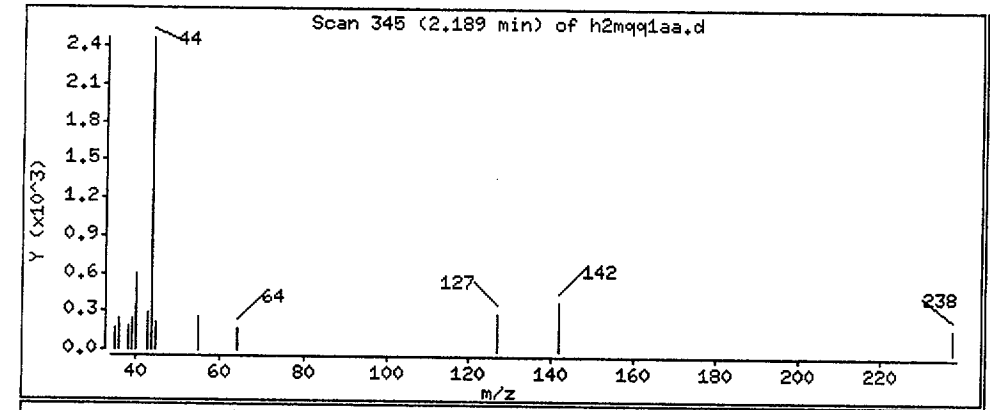
Operator: 063605

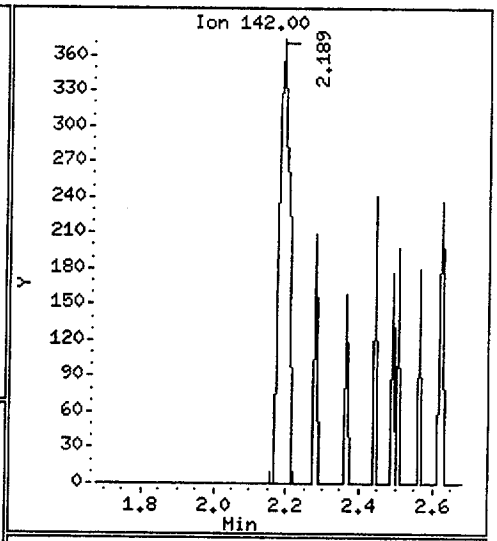
Column phase: J+W 624

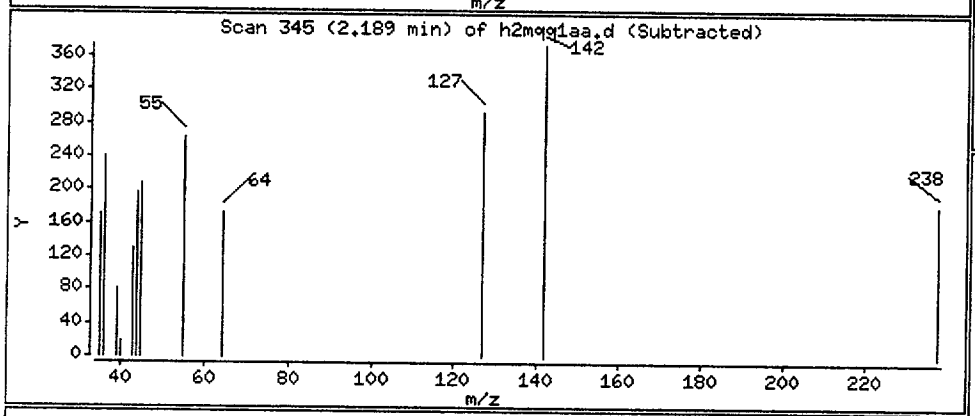
Column diameter: 0.18

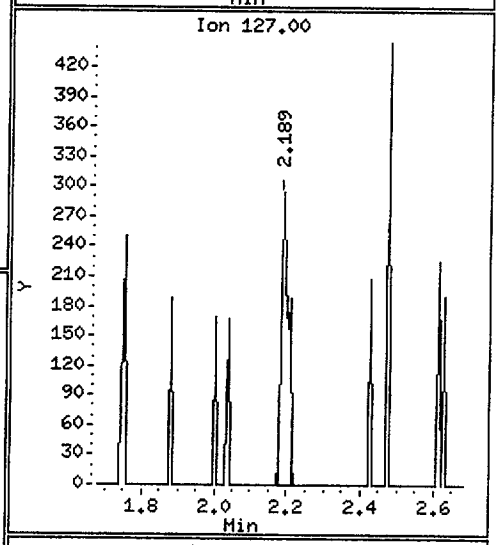
23 *Iodomethane

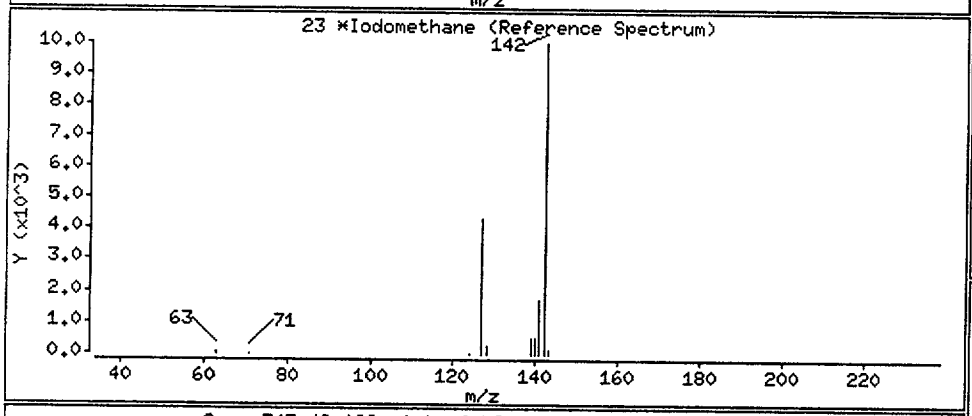
Concentration: 0.54716 ug/L

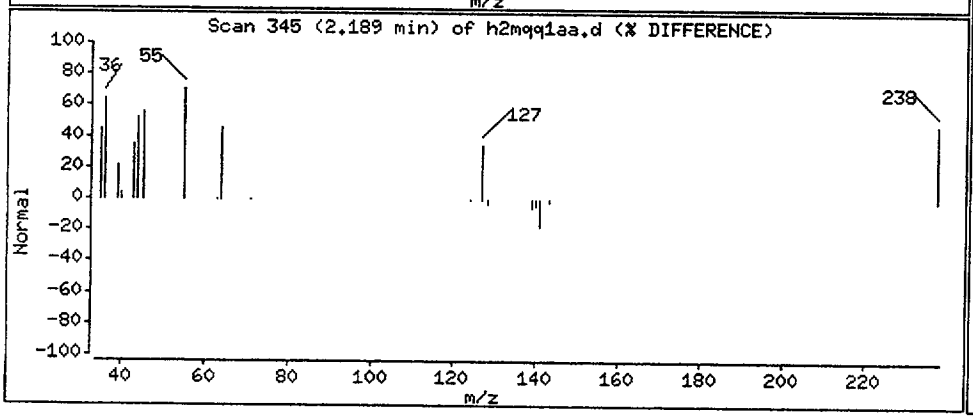


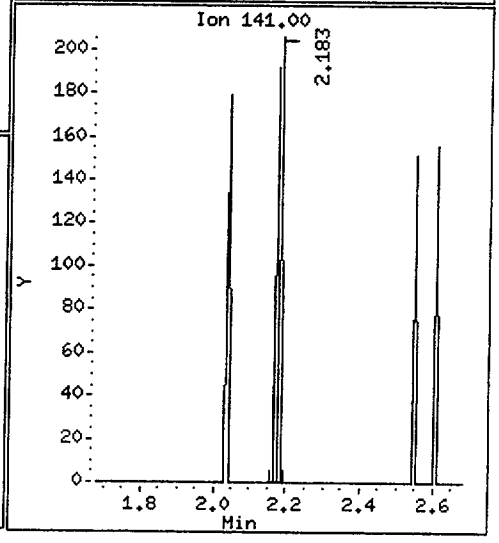












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

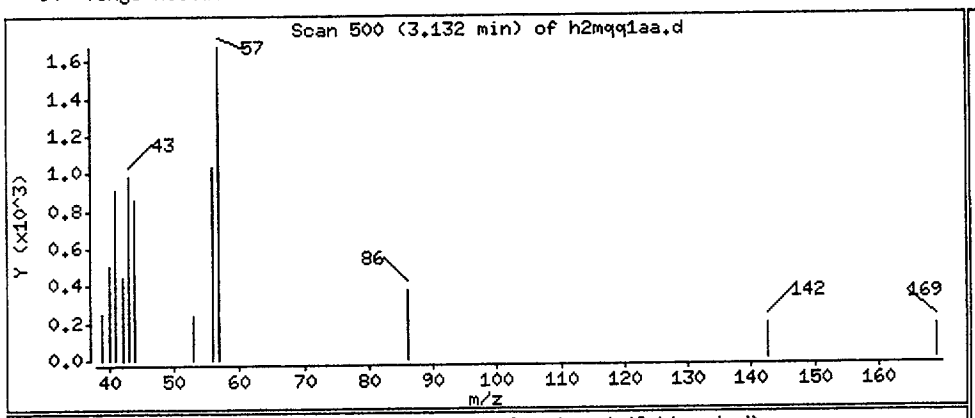
Operator: 063605

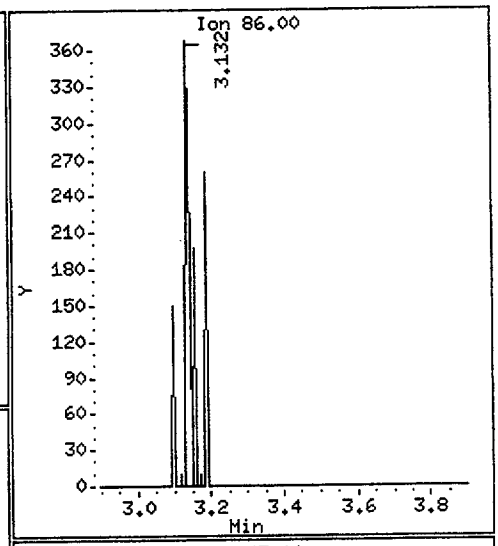
Column phase: J+W 624

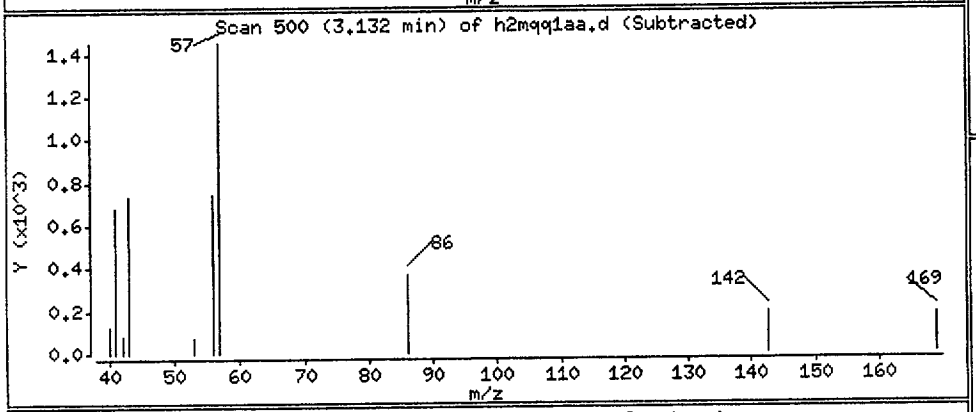
Column diameter: 0.18

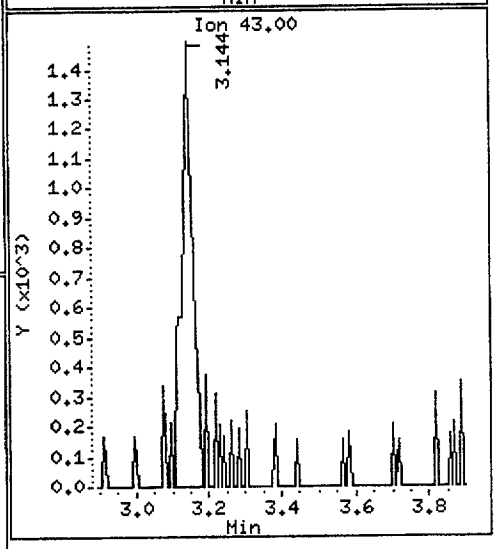
34 *Vinyl Acetate

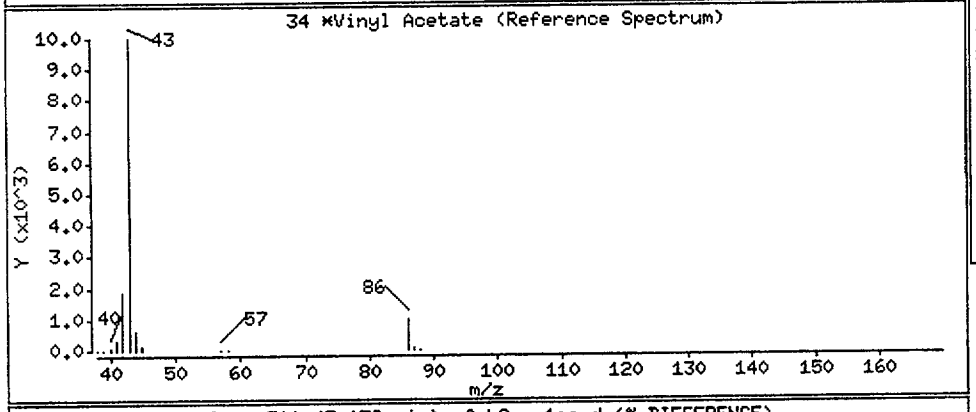
Concentration: 0.25860 ug/L

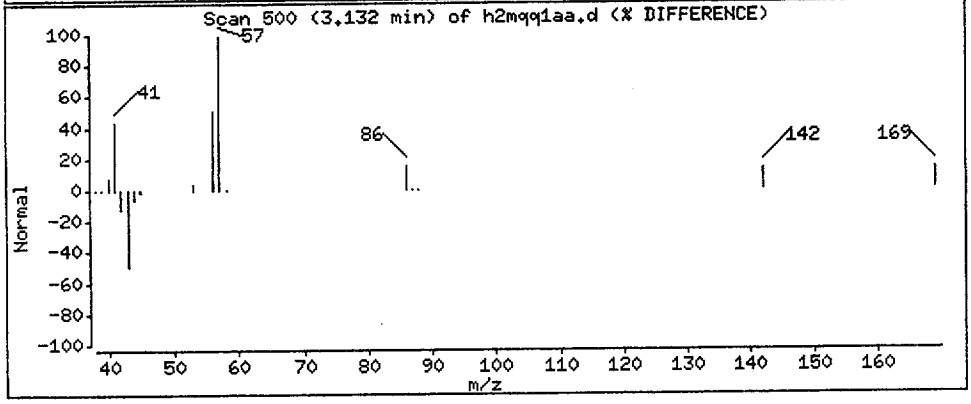












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

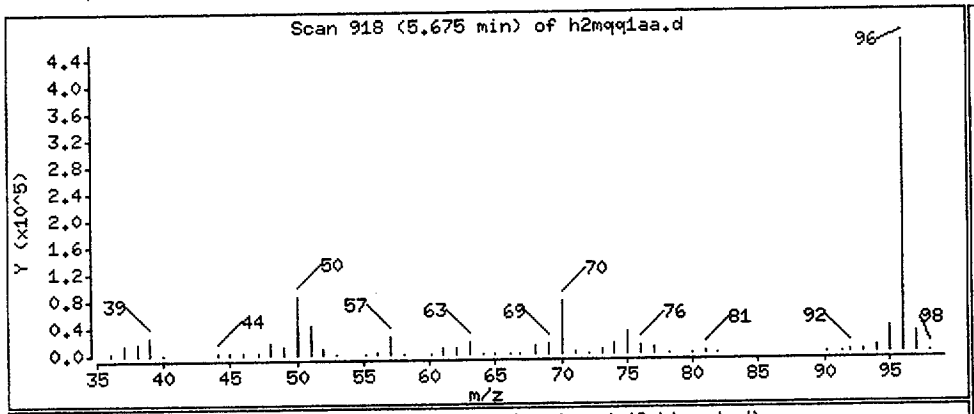
Operator: 063605

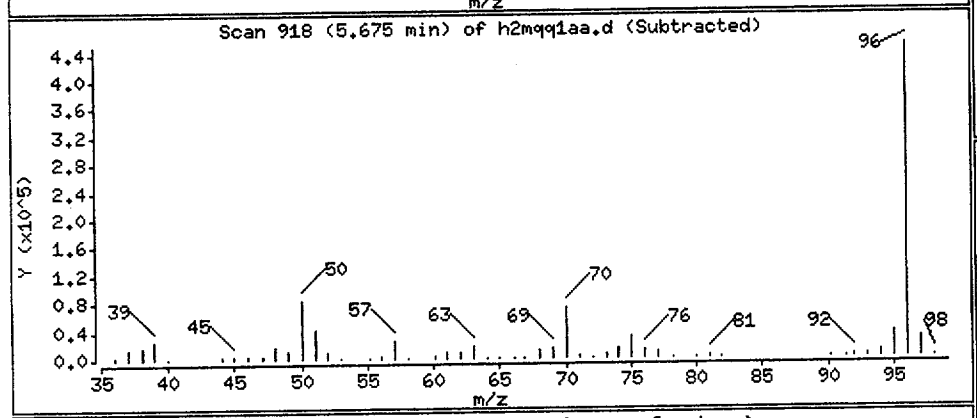
Column phase: J+W 624

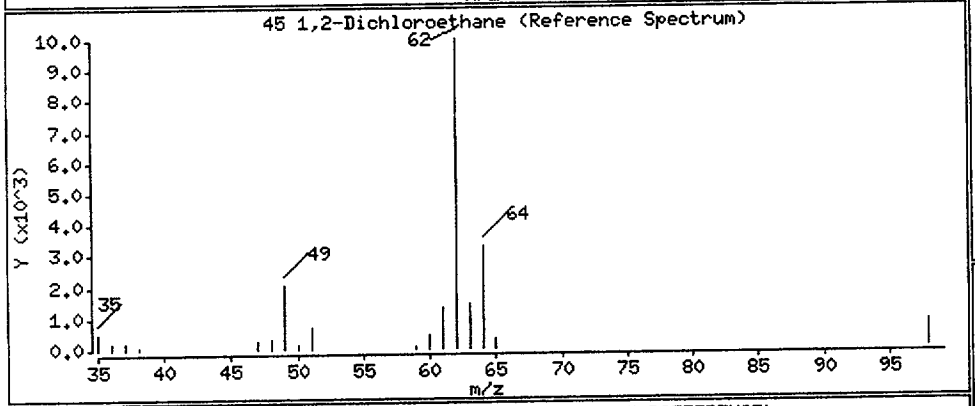
Column diameter: 0.18

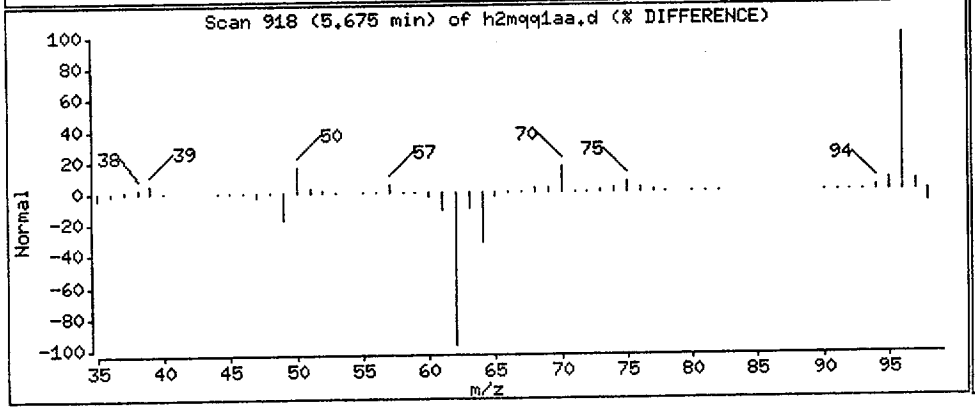
45 1,2-Dichloroethane

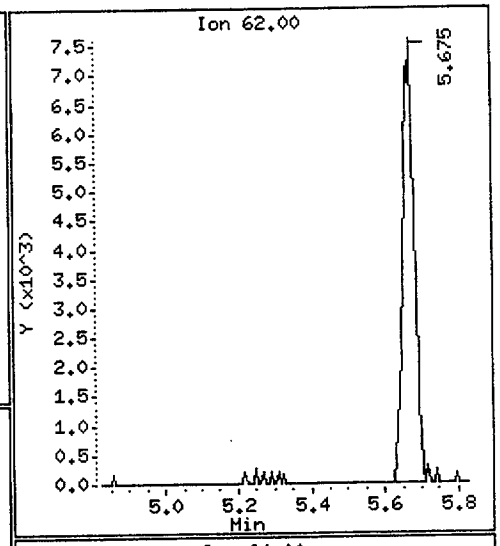
Concentration: 0.72201 ug/L

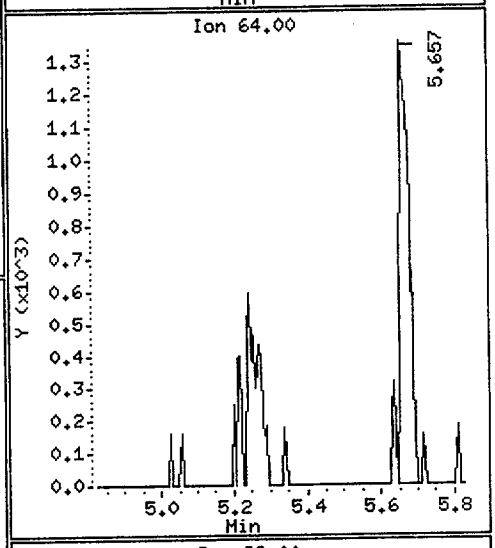


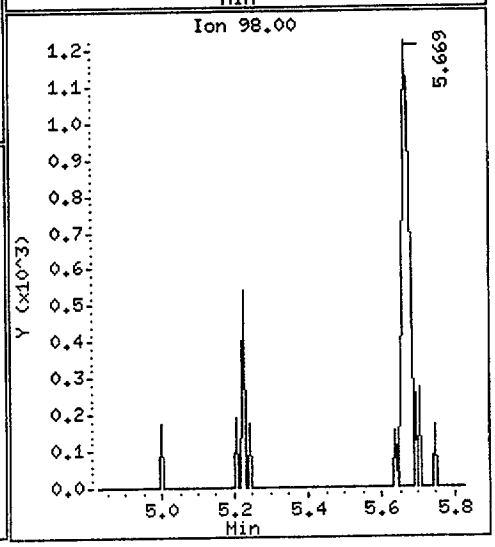












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

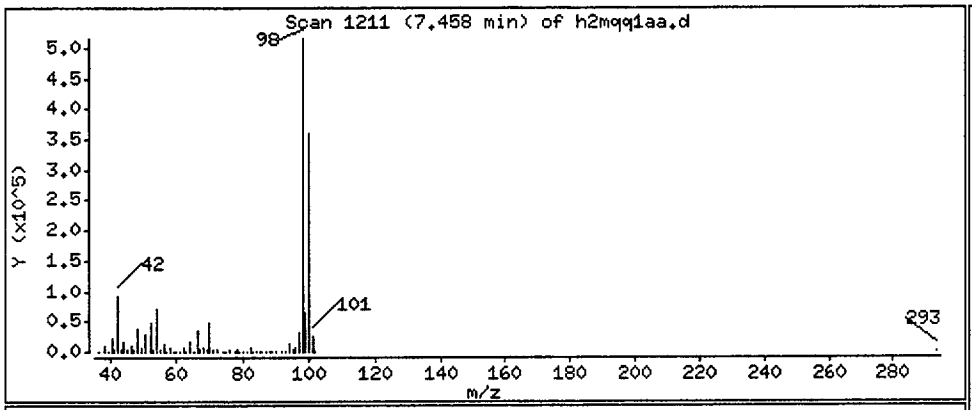
Operator: 063605

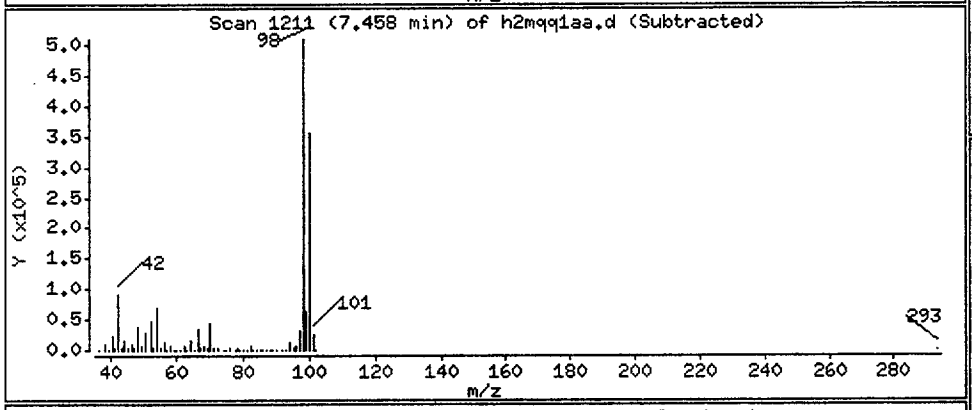
Column phase: J+W 624

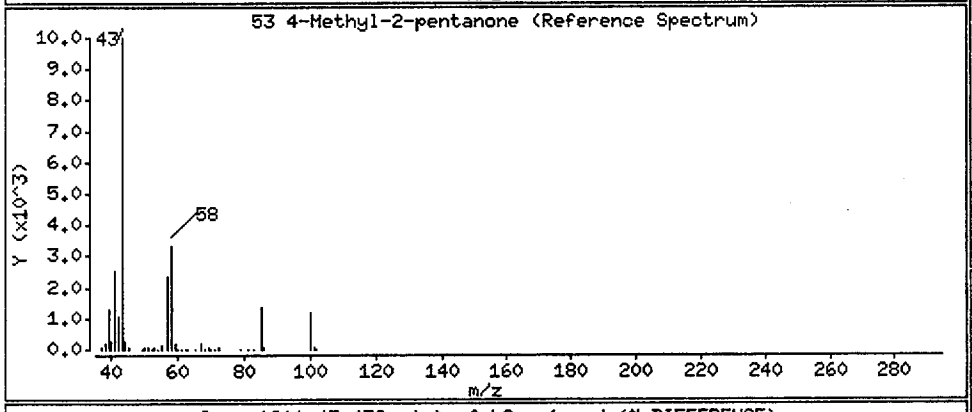
Column diameter: 0.18

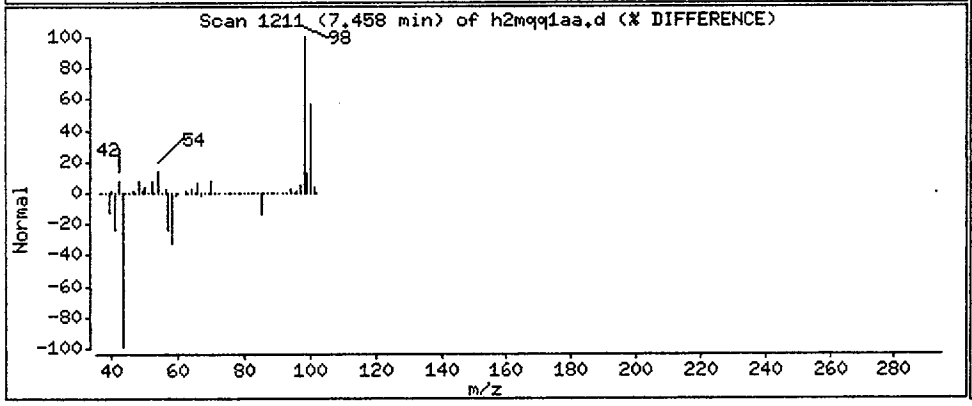
53 4-Methyl-2-pentanone

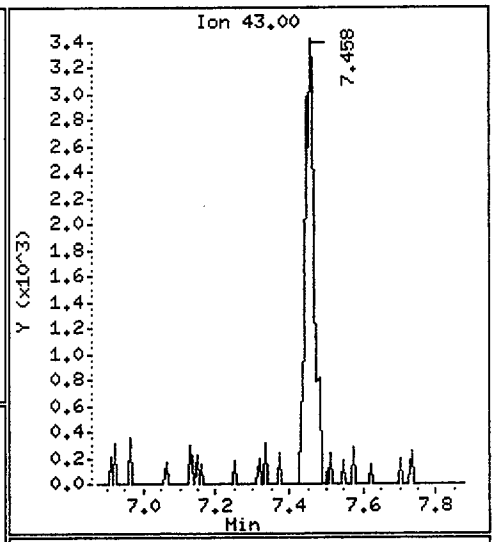
Concentration: 0.65940 ug/L

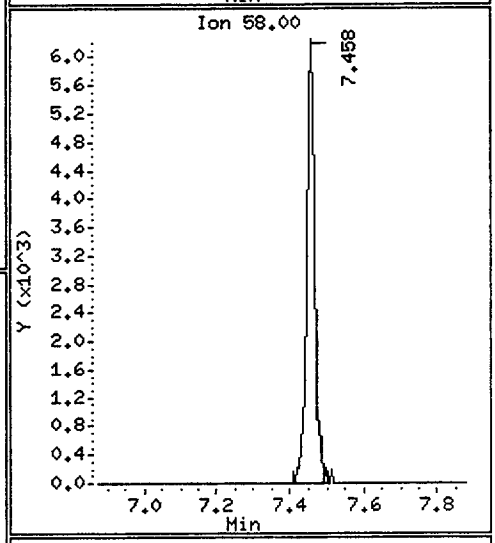


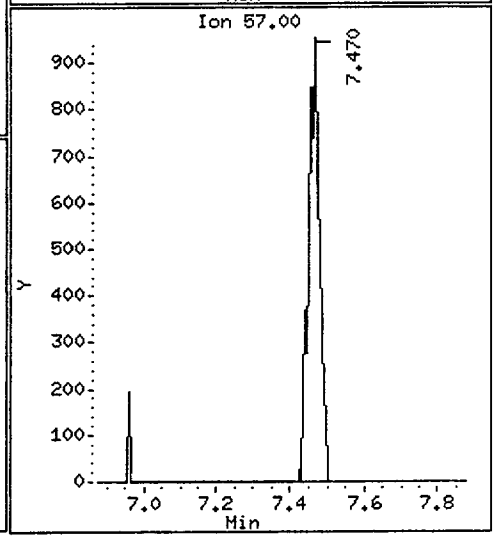












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

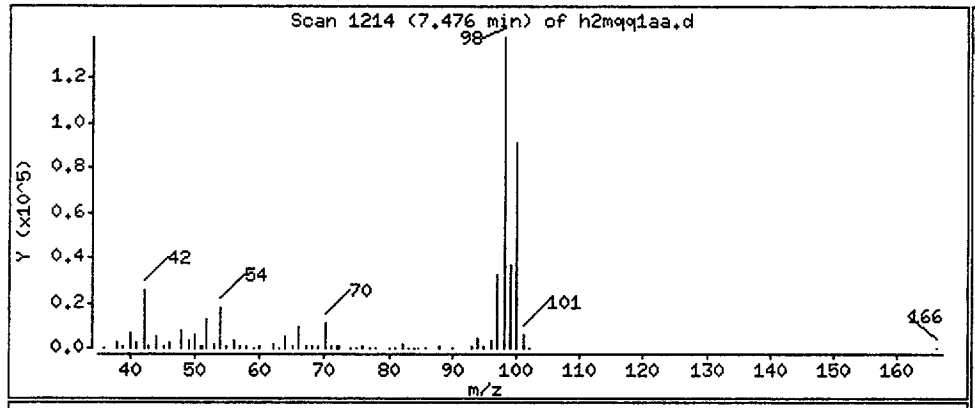
Operator: 063605

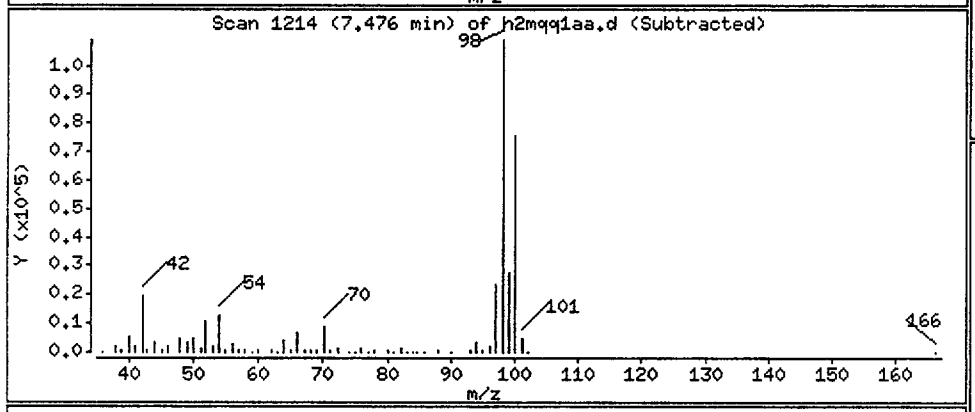
Column phase: J+W 624

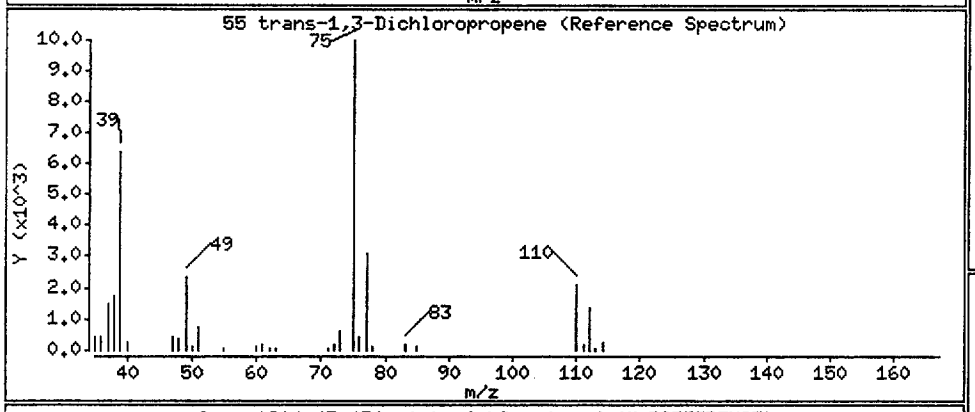
Column diameter: 0.18

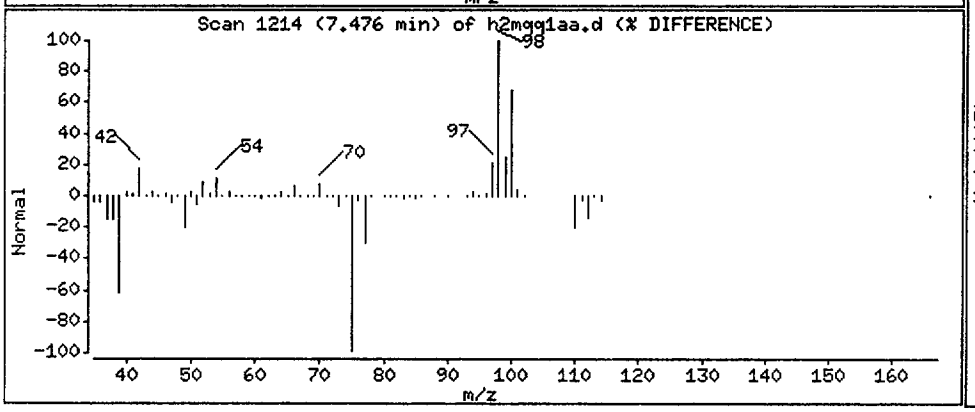
55 trans-1,3-Dichloropropene

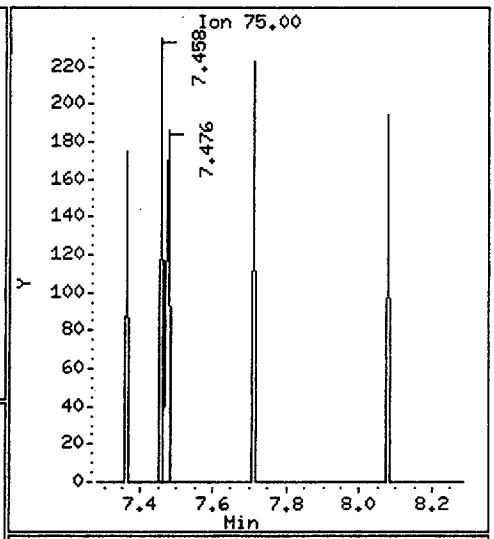
Concentration: 0.63248 ug/L

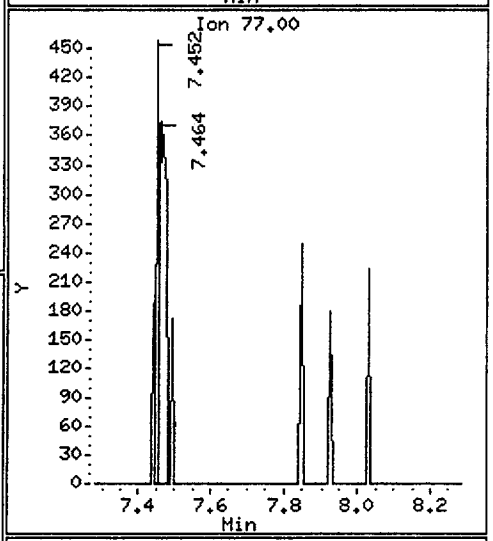


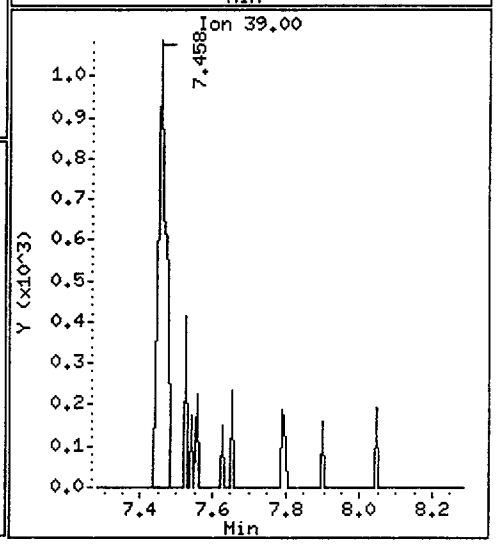












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

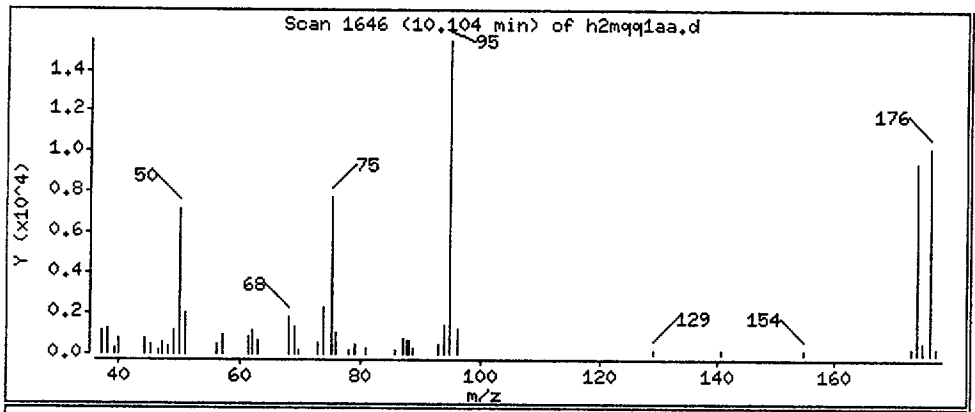
Operator: 063605

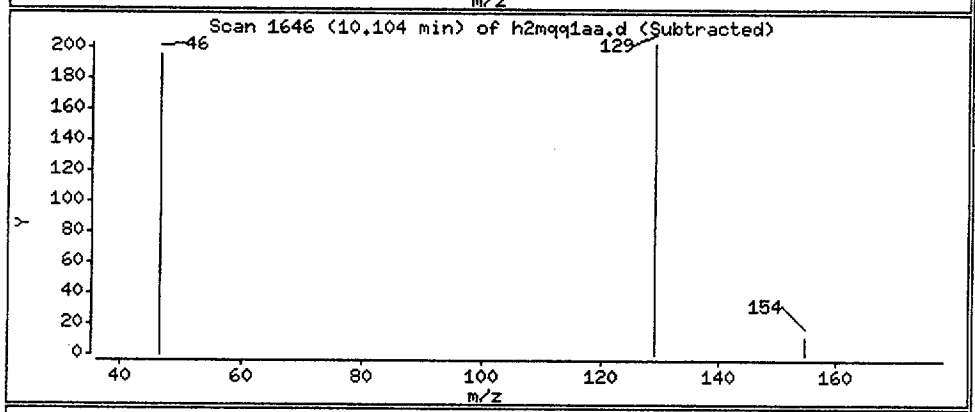
Column phase: J+W 624

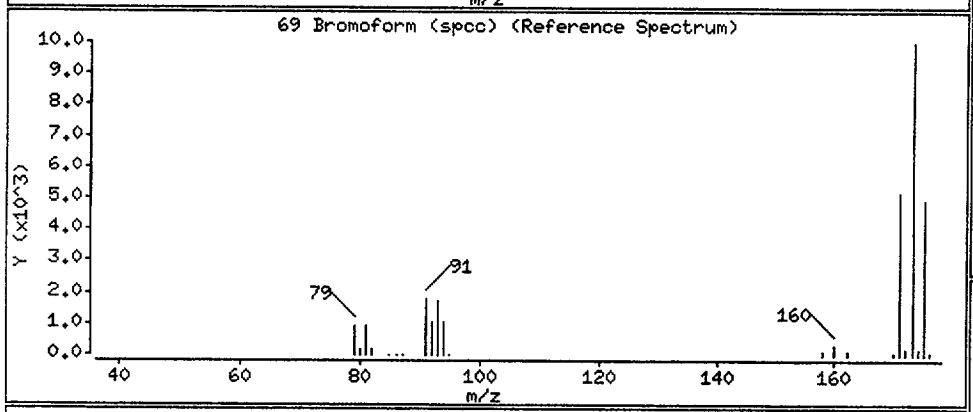
Column diameter: 0.18

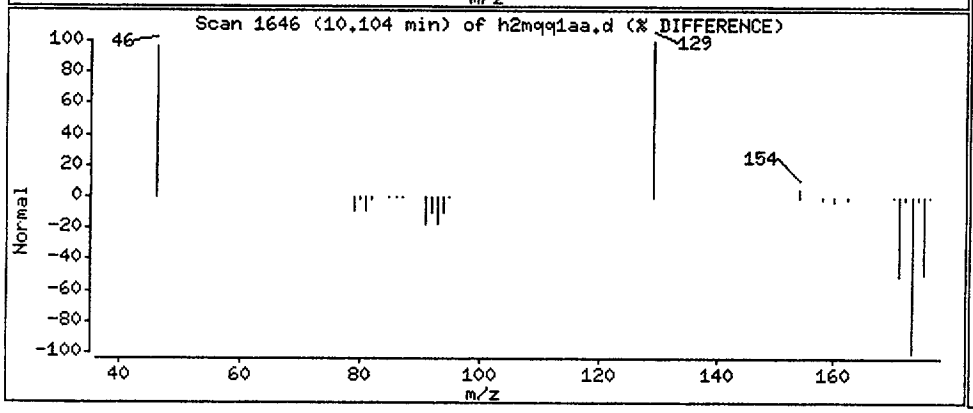
69 Bromoform (spcc)

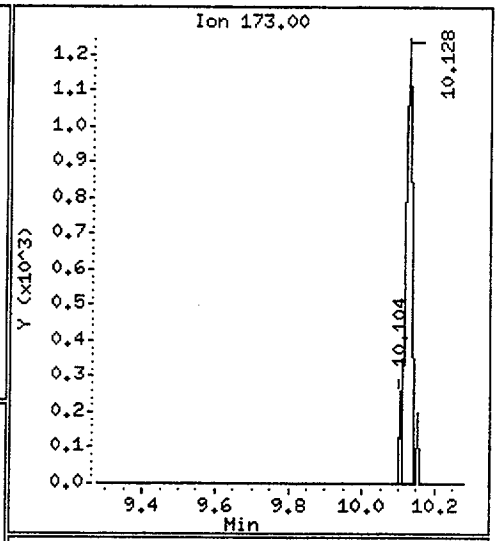
Concentration: 0.83219 ug/L

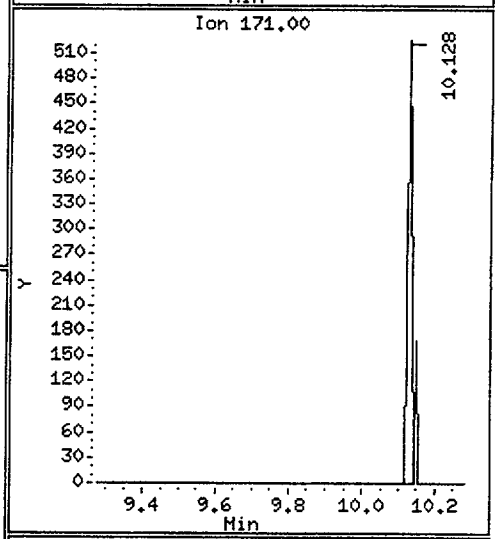


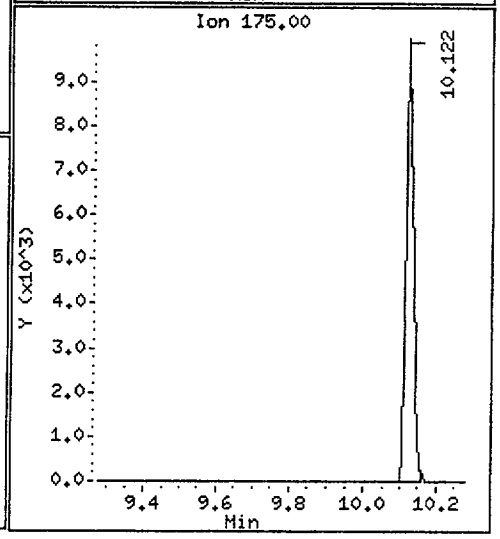












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

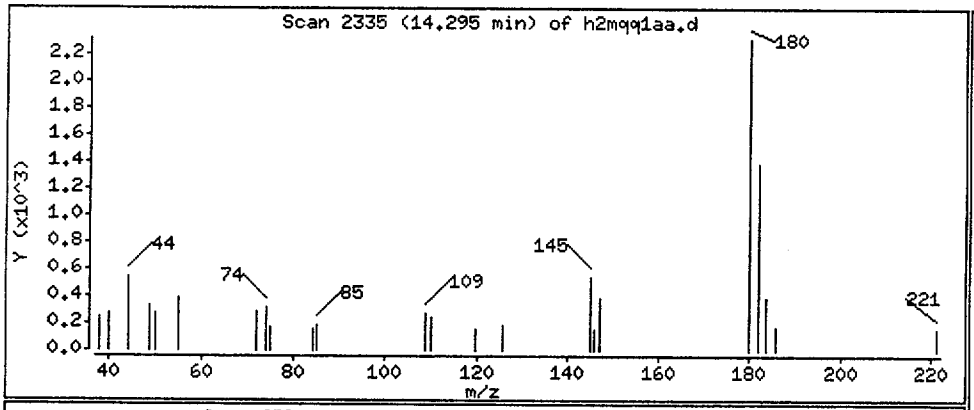
Operator: 063605

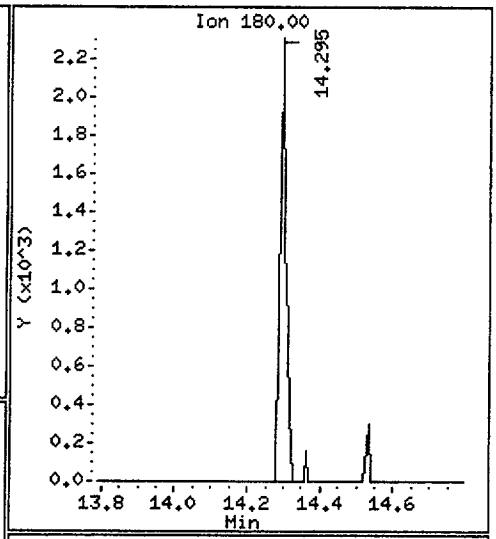
Column phase: J+W 624

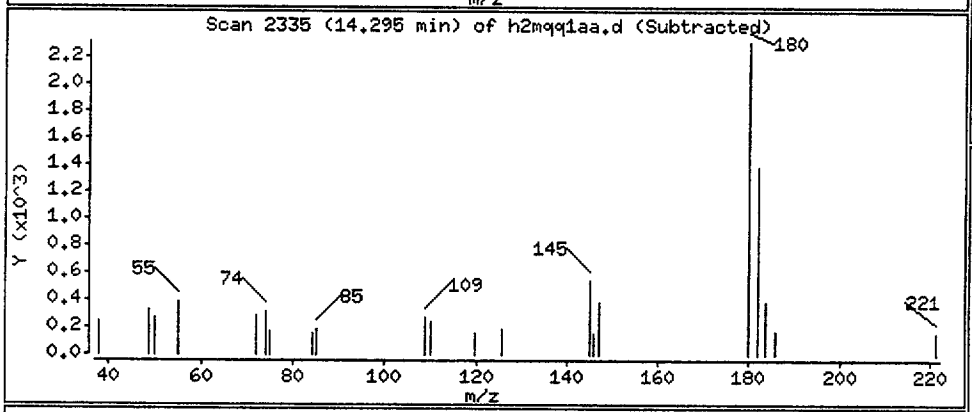
Column diameter: 0.18

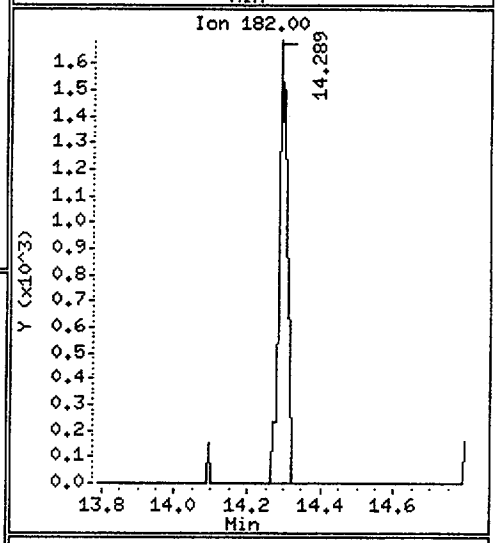
89 1,2,4-Trichlorobenzene

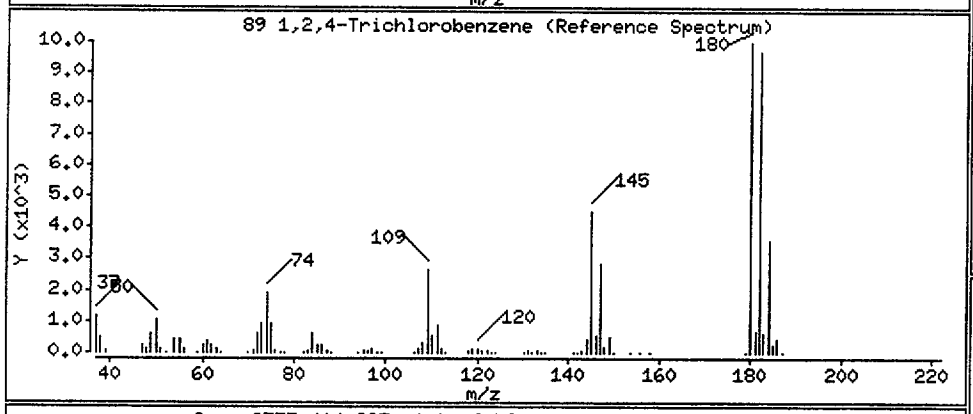
Concentration: 0.15436 ug/L

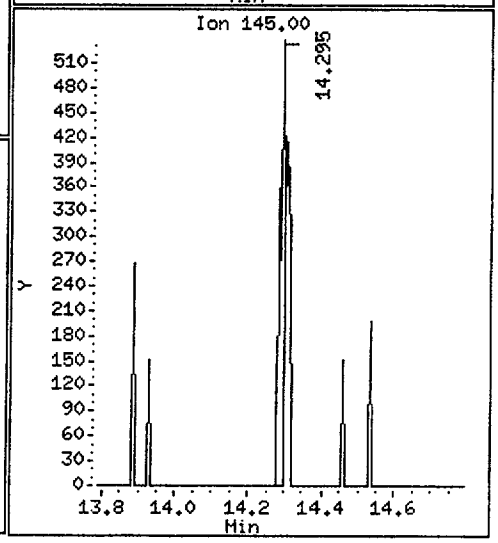


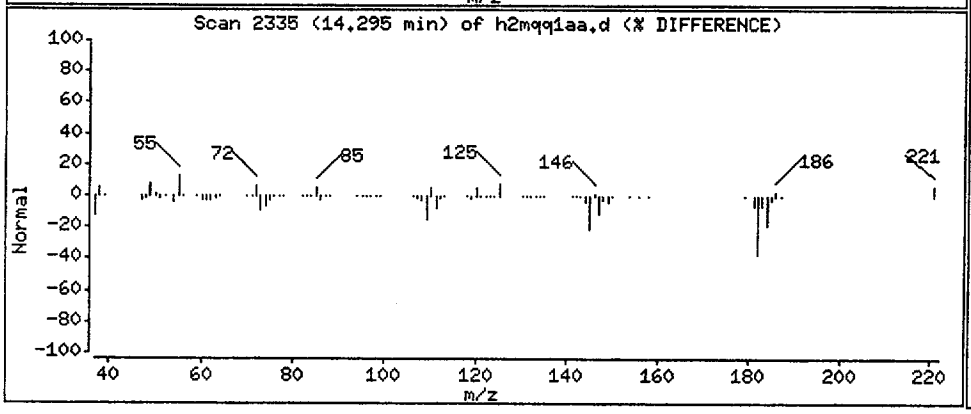












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

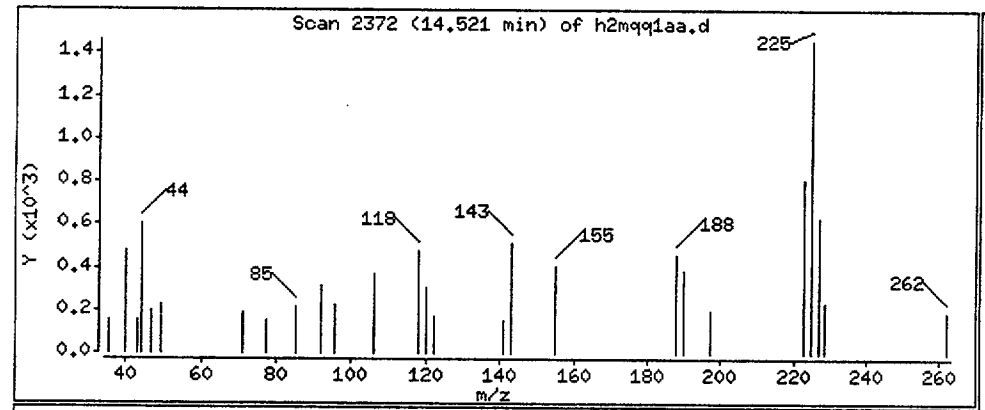
Operator: 063605

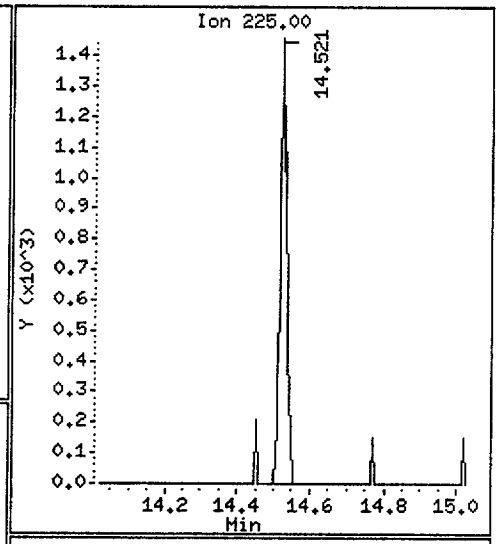
Column phase: J+W 624

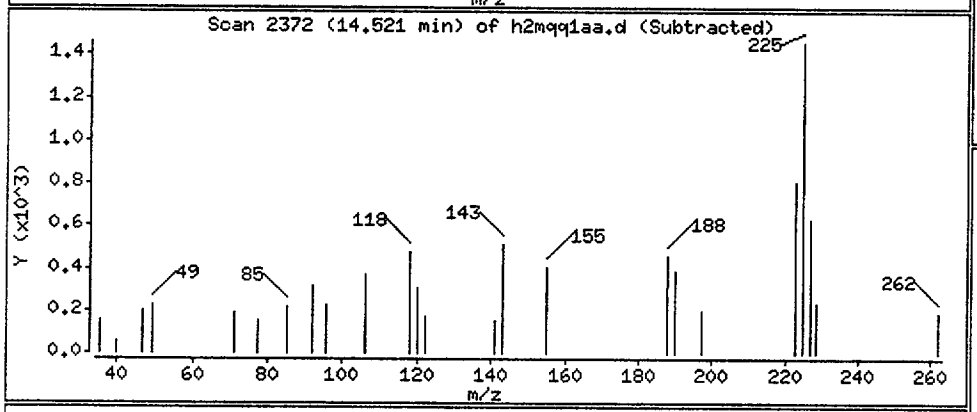
Column diameter: 0.18

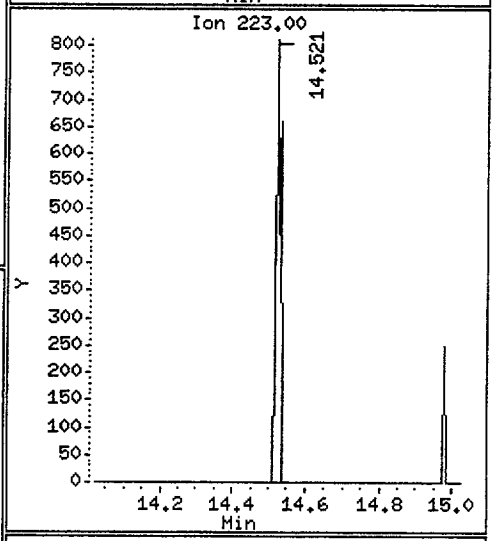
90 Hexachlorobutadiene

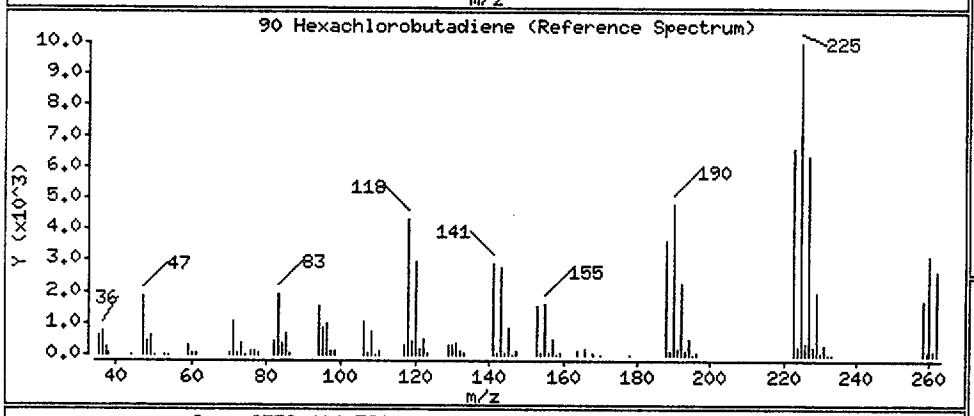
Concentration: 0.11247 ug/L

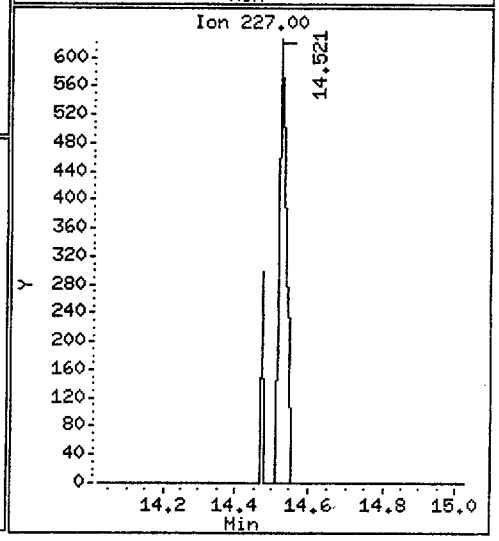


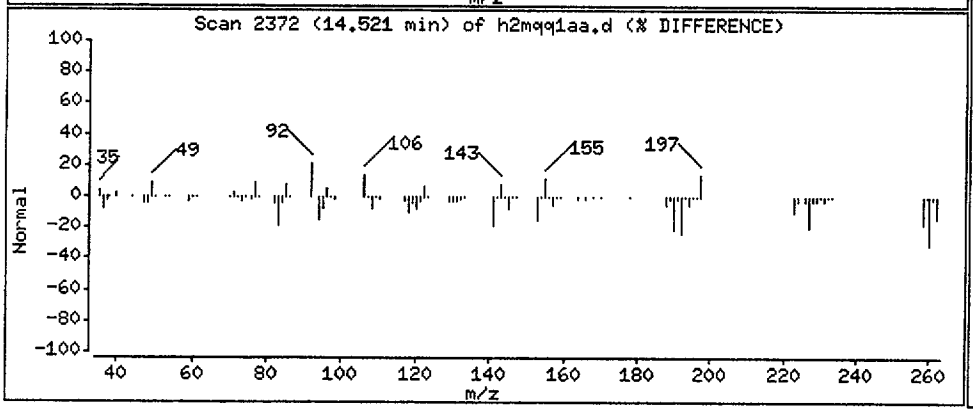












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

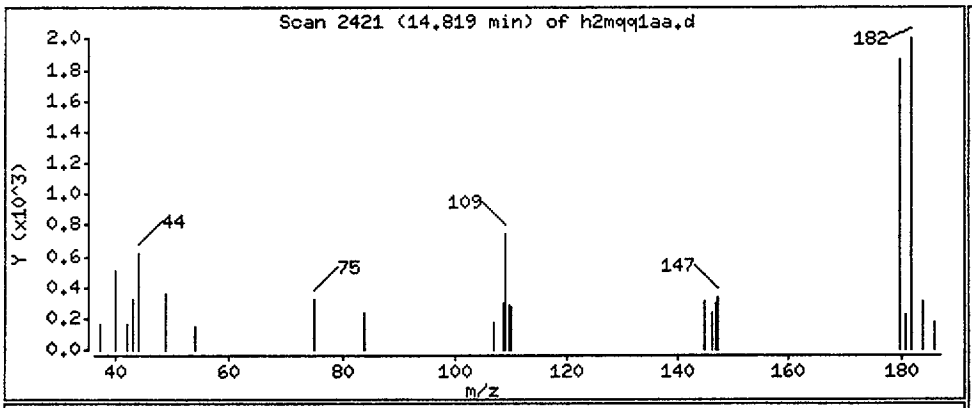
Operator: 063605

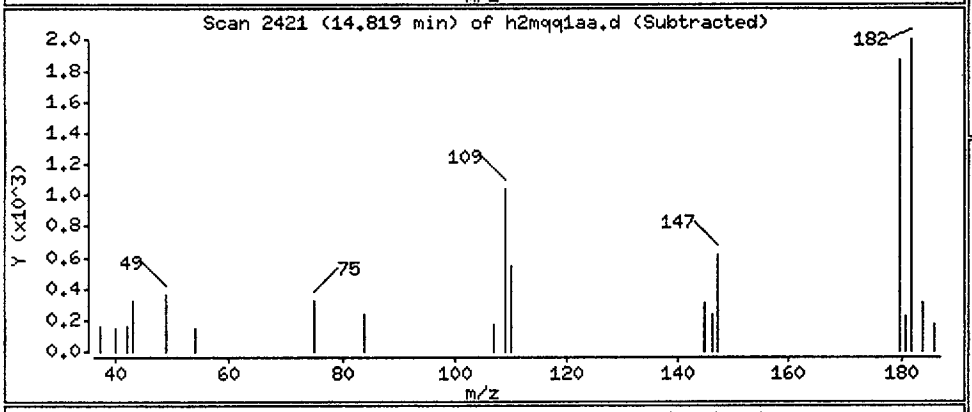
Column phase: J+W 624

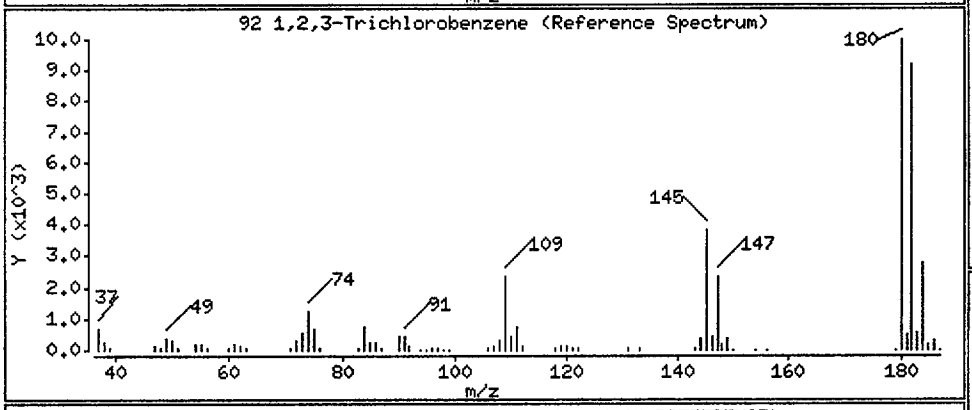
Column diameter: 0.18

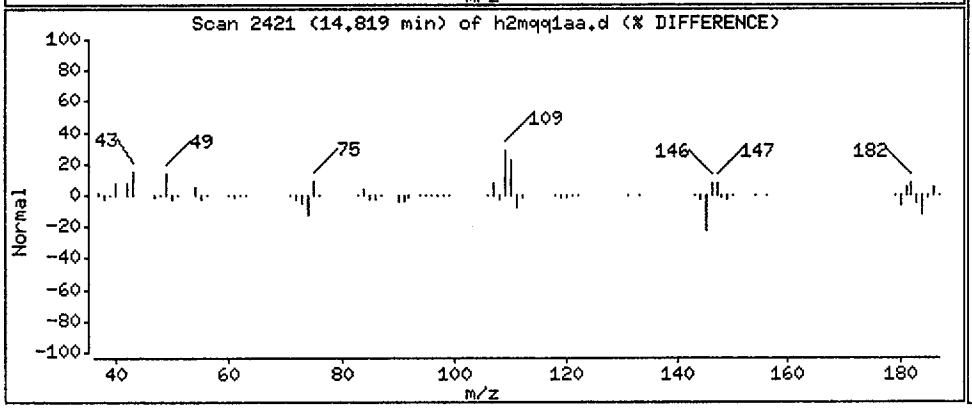
92 1,2,3-Trichlorobenzene

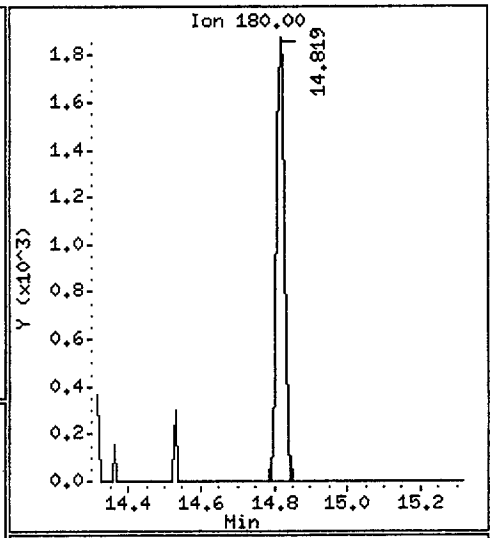
Concentration: 0.26076 ug/L

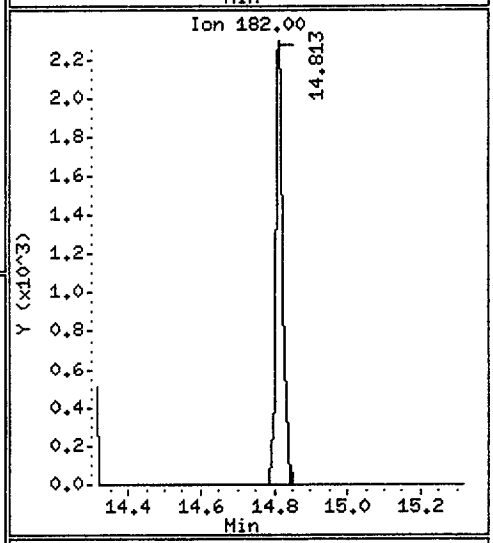


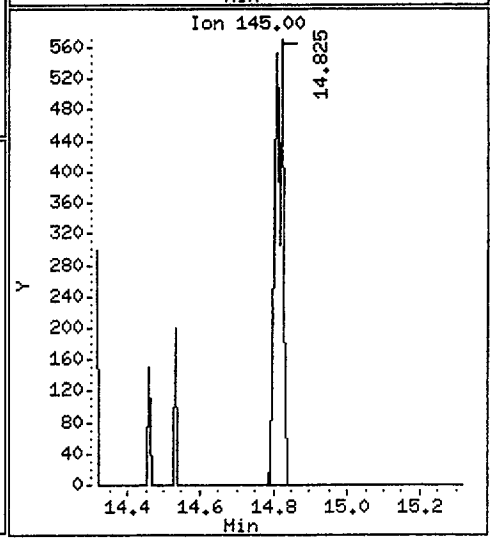












Data File: /var/chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 06-Apr-2006 17:16

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Lab Smp Id: H2MQQ1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 05-APR-2006 15:52
Operator : 063605 Inst ID: mz.i
Smp Info : H2MQQ1AA,1,3,,BLANK
Misc Info : Z040506,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.669	1147589	10.000

	RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Carbon dioxide Air	0.918	503742	4.38956804	4.3896	5	NIST05.1	80	1
						CAS #: 124-38-9		

MT 4/06/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

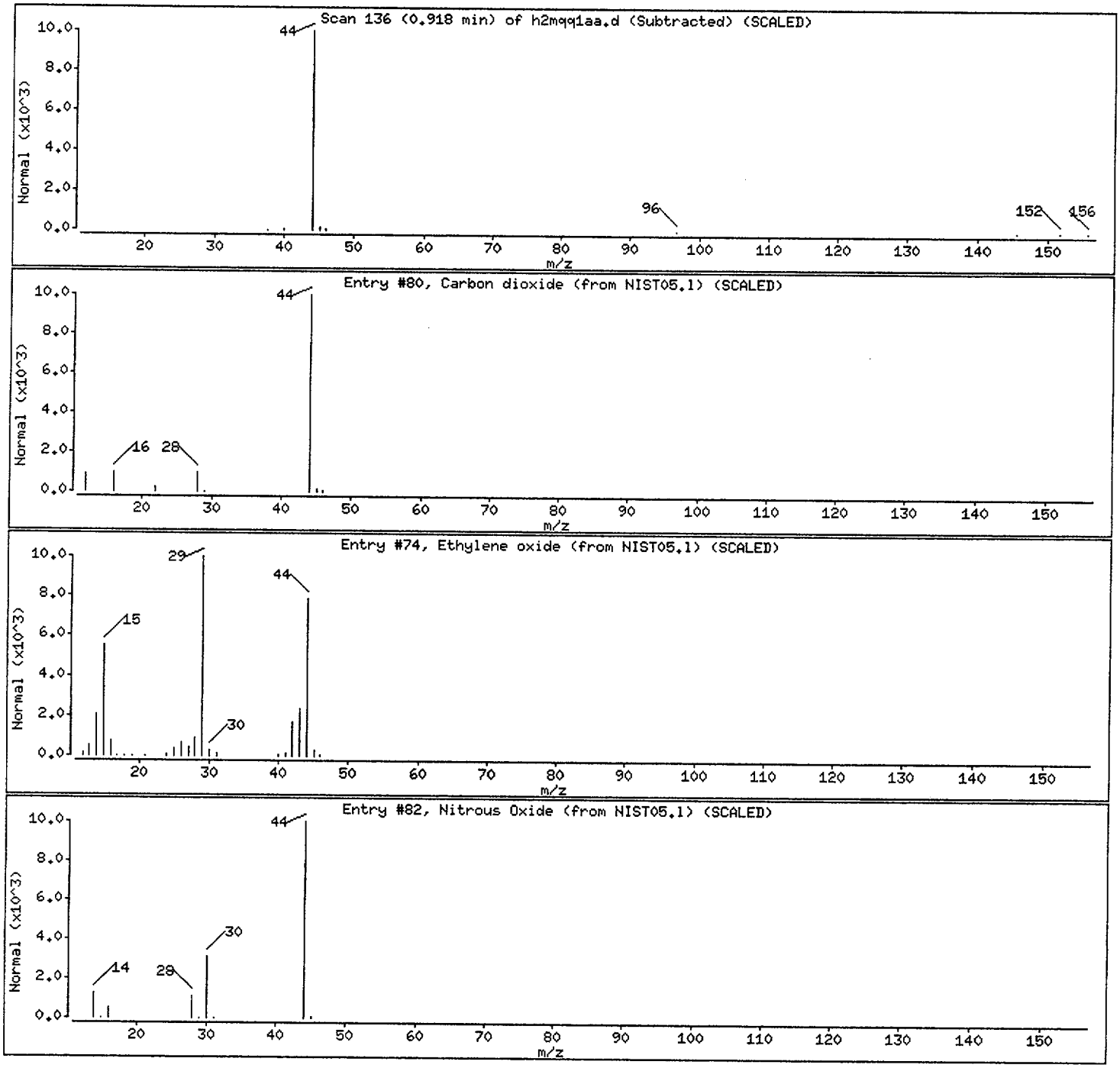
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	47 a	(49 - 141)	SW846 8260B
Benzene	**87**	**(80 - 121)**	**SW846 8260B**
Bromobenzene	94	(80 - 122)	SW846 8260B
Bromochloromethane	97	(75 - 124)	SW846 8260B
Bromodichloromethane	91	(73 - 127)	SW846 8260B
Bromoform	96	(63 - 141)	SW846 8260B
Bromomethane	96	(44 - 157)	SW846 8260B
2-Butanone	86	(61 - 139)	SW846 8260B
n-Butylbenzene	93	(62 - 128)	SW846 8260B
sec-Butylbenzene	94	(67 - 127)	SW846 8260B
tert-Butylbenzene	96	(68 - 123)	SW846 8260B
Carbon disulfide	89	(71 - 126)	SW846 8260B
Carbon tetrachloride	82	(66 - 133)	SW846 8260B
Chlorobenzene	**94**	**(80 - 121)**	**SW846 8260B**
Chlorodibromomethane	88	(71 - 132)	SW846 8260B
Chloroethane	99	(61 - 151)	SW846 8260B
Chloroform	93	(76 - 120)	SW846 8260B
Chloromethane	101	(56 - 140)	SW846 8260B
2-Chlorotoluene	90	(68 - 123)	SW846 8260B
4-Chlorotoluene	93	(68 - 125)	SW846 8260B
1,2-Dibromo-3-chloro-propane	83	(51 - 143)	SW846 8260B
1,2-Dibromoethane	90	(78 - 120)	SW846 8260B
Dibromomethane	91	(72 - 125)	SW846 8260B
1,2-Dichlorobenzene	91	(76 - 120)	SW846 8260B
1,3-Dichlorobenzene	92	(77 - 120)	SW846 8260B
1,4-Dichlorobenzene	92	(75 - 120)	SW846 8260B
Dichlorodifluoromethane	95	(48 - 147)	SW846 8260B
1,1-Dichloroethane	93	(70 - 127)	SW846 8260B
1,2-Dichloroethane	93	(71 - 125)	SW846 8260B
cis-1,2-Dichloroethene	91	(76 - 123)	SW846 8260B
trans-1,2-Dichloroethene	93	(75 - 124)	SW846 8260B
1,1-Dichloroethene	**100**	**(70 - 128)**	**SW846 8260B**
1,2-Dichloropropane	93	(77 - 122)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,3-Dichloropropane	90	(78 - 120)	SW846 8260B
2,2-Dichloropropane	89	(48 - 149)	SW846 8260B
cis-1,3-Dichloropropene	90	(69 - 128)	SW846 8260B
trans-1,3-Dichloropropene	84	(61 - 132)	SW846 8260B
1,1-Dichloropropene	91	(78 - 122)	SW846 8260B
Ethylbenzene	94	(79 - 124)	SW846 8260B
Hexachlorobutadiene	98	(67 - 123)	SW846 8260B
2-Hexanone	93	(63 - 132)	SW846 8260B
Isopropylbenzene	96	(77 - 126)	SW846 8260B
p-Isopropyltoluene	96	(67 - 125)	SW846 8260B
Methylene chloride	88	(59 - 131)	SW846 8260B
4-Methyl-2-pentanone	91	(64 - 133)	SW846 8260B
Naphthalene	86	(48 - 141)	SW846 8260B
n-Propylbenzene	95	(67 - 128)	SW846 8260B
Styrene	93	(76 - 127)	SW846 8260B
1,1,1,2-Tetrachloroethane	84	(75 - 127)	SW846 8260B
1,1,2,2-Tetrachloroethane	94	(69 - 128)	SW846 8260B
Tetrachloroethene	94	(79 - 126)	SW846 8260B
Toluene	**93**	**(77 - 124)**	**SW846 8260B**
1,2,3-Trichlorobenzene	89	(63 - 127)	SW846 8260B
1,2,4-Trichloro-benzene	88	(64 - 126)	SW846 8260B
1,1,1-Trichloroethane	96	(71 - 125)	SW846 8260B
1,1,2-Trichloroethane	88	(74 - 120)	SW846 8260B
Trichloroethene	**96**	**(80 - 121)**	**SW846 8260B**
Trichlorofluoromethane	101	(67 - 143)	SW846 8260B
1,2,3-Trichloropropane	88	(67 - 124)	SW846 8260B
1,2,4-Trimethylbenzene	92	(69 - 121)	SW846 8260B
1,3,5-Trimethylbenzene	95	(71 - 125)	SW846 8260B
Vinyl chloride	102	(72 - 137)	SW846 8260B
m-Xylene & p-Xylene	98	(71 - 134)	SW846 8260B
o-Xylene	96	(76 - 126)	SW846 8260B
Xylenes (total)	97	(73 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	40.0	18.9 a	ug/L	47	SW846 8260B
Benzene	**10.0**	**8.71**	**ug/L**	**87**	**SW846 8260B**
Bromobenzene	10.0	9.44	ug/L	94	SW846 8260B
Bromochloromethane	10.0	9.75	ug/L	97	SW846 8260B
Bromodichloromethane	10.0	9.08	ug/L	91	SW846 8260B
Bromoform	10.0	9.64	ug/L	96	SW846 8260B
Bromomethane	10.0	9.58	ug/L	96	SW846 8260B
2-Butanone	40.0	34.5	ug/L	86	SW846 8260B
n-Butylbenzene	10.0	9.32	ug/L	93	SW846 8260B
sec-Butylbenzene	10.0	9.41	ug/L	94	SW846 8260B
tert-Butylbenzene	10.0	9.59	ug/L	96	SW846 8260B
Carbon disulfide	10.0	8.90	ug/L	89	SW846 8260B
Carbon tetrachloride	10.0	8.18	ug/L	82	SW846 8260B
Chlorobenzene	**10.0**	**9.44**	**ug/L**	**94**	**SW846 8260B**
Chlorodibromomethane	10.0	8.82	ug/L	88	SW846 8260B
Chloroethane	10.0	9.89	ug/L	99	SW846 8260B
Chloroform	10.0	9.30	ug/L	93	SW846 8260B
Chloromethane	10.0	10.1	ug/L	101	SW846 8260B
2-Chlorotoluene	10.0	8.98	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.35	ug/L	93	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	8.34	ug/L	83	SW846 8260B
1,2-Dibromoethane	10.0	9.00	ug/L	90	SW846 8260B
Dibromomethane	10.0	9.12	ug/L	91	SW846 8260B
1,2-Dichlorobenzene	10.0	9.14	ug/L	91	SW846 8260B
1,3-Dichlorobenzene	10.0	9.19	ug/L	92	SW846 8260B
1,4-Dichlorobenzene	10.0	9.24	ug/L	92	SW846 8260B
Dichlorodifluoromethane	10.0	9.50	ug/L	95	SW846 8260B
1,1-Dichloroethane	10.0	9.28	ug/L	93	SW846 8260B
1,2-Dichloroethane	10.0	9.27	ug/L	93	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.13	ug/L	91	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.30	ug/L	93	SW846 8260B
1,1-Dichloroethene	**10.0**	**10.0**	**ug/L**	**100**	**SW846 8260B**
1,2-Dichloropropane	10.0	9.25	ug/L	93	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,3-Dichloropropane	10.0	8.98	ug/L	90	SW846 8260B
2,2-Dichloropropane	10.0	8.90	ug/L	89	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.01	ug/L	90	SW846 8260B
trans-1,3-Dichloropropene	10.0	8.38	ug/L	84	SW846 8260B
1,1-Dichloropropene	10.0	9.08	ug/L	91	SW846 8260B
Ethylbenzene	10.0	9.45	ug/L	94	SW846 8260B
Hexachlorobutadiene	10.0	9.81	ug/L	98	SW846 8260B
2-Hexanone	40.0	37.3	ug/L	93	SW846 8260B
Isopropylbenzene	10.0	9.58	ug/L	96	SW846 8260B
p-Isopropyltoluene	10.0	9.57	ug/L	96	SW846 8260B
Methylene chloride	10.0	8.77	ug/L	88	SW846 8260B
4-Methyl-2-pentanone	40.0	36.4	ug/L	91	SW846 8260B
Naphthalene	10.0	8.59	ug/L	86	SW846 8260B
n-Propylbenzene	10.0	9.46	ug/L	95	SW846 8260B
Styrene	10.0	9.26	ug/L	93	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	8.41	ug/L	84	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.38	ug/L	94	SW846 8260B
Tetrachloroethene	10.0	9.37	ug/L	94	SW846 8260B
Toluene	**10.0**	**9.29**	**ug/L**	**93**	**SW846 8260B**
1,2,3-Trichlorobenzene	10.0	8.87	ug/L	89	SW846 8260B
1,2,4-Trichloro-benzene	10.0	8.83	ug/L	88	SW846 8260B
1,1,1-Trichloroethane	10.0	9.64	ug/L	96	SW846 8260B
1,1,2-Trichloroethane	10.0	8.83	ug/L	88	SW846 8260B
Trichloroethene	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
Trichlorofluoromethane	10.0	10.1	ug/L	101	SW846 8260B
1,2,3-Trichloropropane	10.0	8.77	ug/L	88	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.17	ug/L	92	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.55	ug/L	95	SW846 8260B
Vinyl chloride	10.0	10.2	ug/L	102	SW846 8260B
m-Xylene & p-Xylene	20.0	19.5	ug/L	98	SW846 8260B
o-Xylene	10.0	9.58	ug/L	96	SW846 8260B
Xylenes (total)	30.0	29.1	ug/L	97	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Lab Smp Id: H2MQQ1AC
Client Smp ID: INTRA-LAB CHECK
Inj Date : 05-APR-2006 15:05
Operator : 063605
Inst ID: mz.i
Smp Info : H2MQQ1AC,1,3,,LCS
Misc Info : Z040506,8260B_LM,1-all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:00 chemist
Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51
Cal File: icvzc248.d
Als bottle: 1
QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 1-all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.668	5.667	(1.000)	1035143	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	183392	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	224968	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.236	5.229	(0.924)	146622	10.2223	10.222
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	182064	10.9765	10.976
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	838957	10.4116	10.412
$ 7 4-Bromofluorobenzene	95	10.121	10.126	(0.881)	211877	9.33871	9.3387
10 Dichlorodifluoromethane	85	1.014	1.013	(0.179)	240135	9.50365	9.5036
11 Chloromethane (spcc)	50	1.124	1.122	(0.198)	617175	10.0776	10.078
12 Vinyl Chloride (ccc)	62	1.197	1.195	(0.211)	416466	10.2149	10.215
15 Bromomethane	94	1.410	1.414	(0.249)	96598	9.58188	9.5819
16 Chloroethane	64	1.483	1.481	(0.262)	191004	9.89385	9.8938
18 Trichlorofluoromethane	101	1.671	1.670	(0.295)	321024	10.1464	10.146
20 1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.365)	225922	10.0420	10.042

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	22 Acetone	43	2.122	2.126	(0.374)	56689	18.8897	18.890(R)
	24 Carbon Disulfide	76	2.231	2.229	(0.394)	706562	8.89713	8.8971
	27 Methylene Chloride	84	2.511	2.503	(0.443)	151747	8.76534	8.7653
	30 trans-1,2-Dichloroethene	96	2.791	2.789	(0.492)	264151	9.30100	9.3010
	33 1,1-Dichloroethane (spcc)	63	3.277	3.276	(0.578)	608884	9.27521	9.2752
	35 2,2-Dichloropropane	77	4.093	4.091	(0.722)	296693	8.89542	8.8954
	36 cis 1,2-Dichloroethene	96	4.117	4.109	(0.726)	239248	9.12641	9.1264
M	8 1,2-Dichloroethene (total)	96				503400	18.4274	18.427
	37 2-Butanone	43	4.172	4.170	(0.736)	135317	34.4997	34.500
	38 Bromochloromethane	128	4.458	4.450	(0.786)	70268	9.74821	9.7482
	40 Chloroform (ccc)	83	4.610	4.608	(0.813)	347975	9.30381	9.3038
	41 1,1,1-Trichloroethane	97	4.811	4.809	(0.849)	319179	9.64175	9.6417
	42 Carbon Tetrachloride	117	5.036	5.028	(0.888)	216780	8.18209	8.1821
	43 1,1-Dichloropropene	75	5.048	5.046	(0.891)	322265	9.08496	9.0850
	44 Benzene	78	5.297	5.295	(0.935)	889009	8.70884	8.7088
	45 1,2-Dichloroethane	62	5.328	5.326	(0.940)	200362	9.26898	9.2690
	46 Trichloroethene	130	6.112	6.105	(1.078)	274457	9.55792	9.5579
	47 1,2-Dichloropropane (ccc)	63	6.344	6.342	(1.119)	257999	9.25034	9.2503
	49 Dibromomethane	93	6.471	6.470	(1.142)	52994	9.12424	9.1242
	50 Bromodichloromethane	83	6.684	6.683	(1.179)	161718	9.08436	9.0844
	52 cis-1,3-Dichloropropene	75	7.183	7.181	(1.267)	204076	9.01121	9.0112
	53 4-Methyl-2-pentanone	43	7.378	7.376	(1.302)	328918	36.3861	36.386
	54 Toluene (ccc)	91	7.524	7.522	(0.843)	969142	9.28568	9.2857
	55 trans-1,3-Dichloropropene	75	7.785	7.784	(0.872)	129422	8.38372	8.3837
	57 1,1,2-Trichloroethane	97	7.962	7.960	(0.892)	74762	8.82570	8.8257
	58 Tetrachloroethene	164	8.096	8.094	(0.907)	202739	9.36527	9.3653
	59 1,3-Dichloropropane	76	8.120	8.118	(0.909)	133322	8.97904	8.9790
	60 2-Hexanone	43	8.254	8.252	(0.924)	211646	37.2935	37.294
	61 Chlorodibromomethane	129	8.345	8.349	(0.935)	77704	8.81710	8.8171
	62 1,2-Dibromoethane	107	8.436	8.435	(0.945)	68281	9.00115	9.0012
	63 Chlorobenzene (spcc)	112	8.959	8.958	(1.003)	549623	9.43511	9.4351
	65 Ethylbenzene (ccc)	106	9.093	9.092	(1.018)	354701	9.44990	9.4499
	64 1,1,1,2-Tetrachloroethane	131	9.057	9.055	(1.014)	122625	8.41091	8.4109
	66 m&p-Xylene	106	9.221	9.219	(1.033)	885262	19.5093	19.509
	67 o-Xylene	106	9.610	9.609	(1.076)	383906	9.57884	9.5788
M	9 Xylene (total)	106				1269169	29.0881	29.088
	68 Styrene	104	9.623	9.621	(1.078)	520803	9.25528	9.2553
	69 Bromoform (spcc)	173	9.781	9.779	(1.095)	26972	9.64340	9.6434
	70 Isopropylbenzene	105	9.988	9.992	(1.119)	1103817	9.57808	9.5781
	72 Bromobenzene	156	10.249	10.254	(1.148)	161624	9.43675	9.4367
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.292	10.290	(1.153)	59258	9.37779	9.3778
	74 1,2,3-Trichloropropane	110	10.316	10.314	(0.898)	16988	8.77130	8.7713
	76 n-Propylbenzene	91	10.407	10.406	(0.906)	1288753	9.46431	9.4643
	77 2-Chlorotoluene	91	10.474	10.473	(0.912)	648530	8.98047	8.9805
	78 1,3,5-Trimethylbenzene	105	10.614	10.612	(0.924)	874575	9.54535	9.5454
	79 4-Chlorotoluene	91	10.596	10.594	(0.923)	717068	9.34694	9.3469
	80 tert-Butylbenzene	119	10.991	10.990	(0.957)	786940	9.59280	9.5928

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
81 1,2,4-Trimethylbenzene	105	11.052	11.050	(0.962)	789212	9.16804	9.1680
82 sec-Butylbenzene	105	11.277	11.282	(0.982)	1137418	9.40606	9.4061
83 1,3-Dichlorobenzene	146	11.387	11.385	(0.992)	361908	9.19015	9.1901
84 p-Isopropyltoluene	119	11.502	11.501	(1.002)	1015261	9.56850	9.5685
85 1,4-Dichlorobenzene	146	11.521	11.519	(1.003)	338463	9.23997	9.2400
86 1,2-Dichlorobenzene	146	12.074	12.079	(1.051)	265604	9.14204	9.1420
87 n-Butylbenzene	91	12.141	12.145	(1.057)	884715	9.32250	9.3225
88 1,2-Dibromo-3-chloropropane	157	13.260	13.253	(1.155)	8547	8.34051	8.3405
89 1,2,4-Trichlorobenzene	180	14.295	14.293	(1.245)	155560	8.83434	8.8343
90 Hexachlorobutadiene	225	14.526	14.524	(1.265)	162016	9.81116	9.8112
91 Napthalene	128	14.544	14.542	(1.266)	158654	8.59178	8.5918
92 1,2,3-Trichlorobenzene	180	14.818	14.816	(1.290)	102934	8.87398	8.8740

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2mqq1ac.d
Lab Smp Id: H2MQQ1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,1-all.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	1035143	-4.04
2 Chlorobenzene-d5	188899	94450	377798	183392	-2.92
3 1,4 Dichlorobenze	220143	110072	440286	224968	2.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.03
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.04

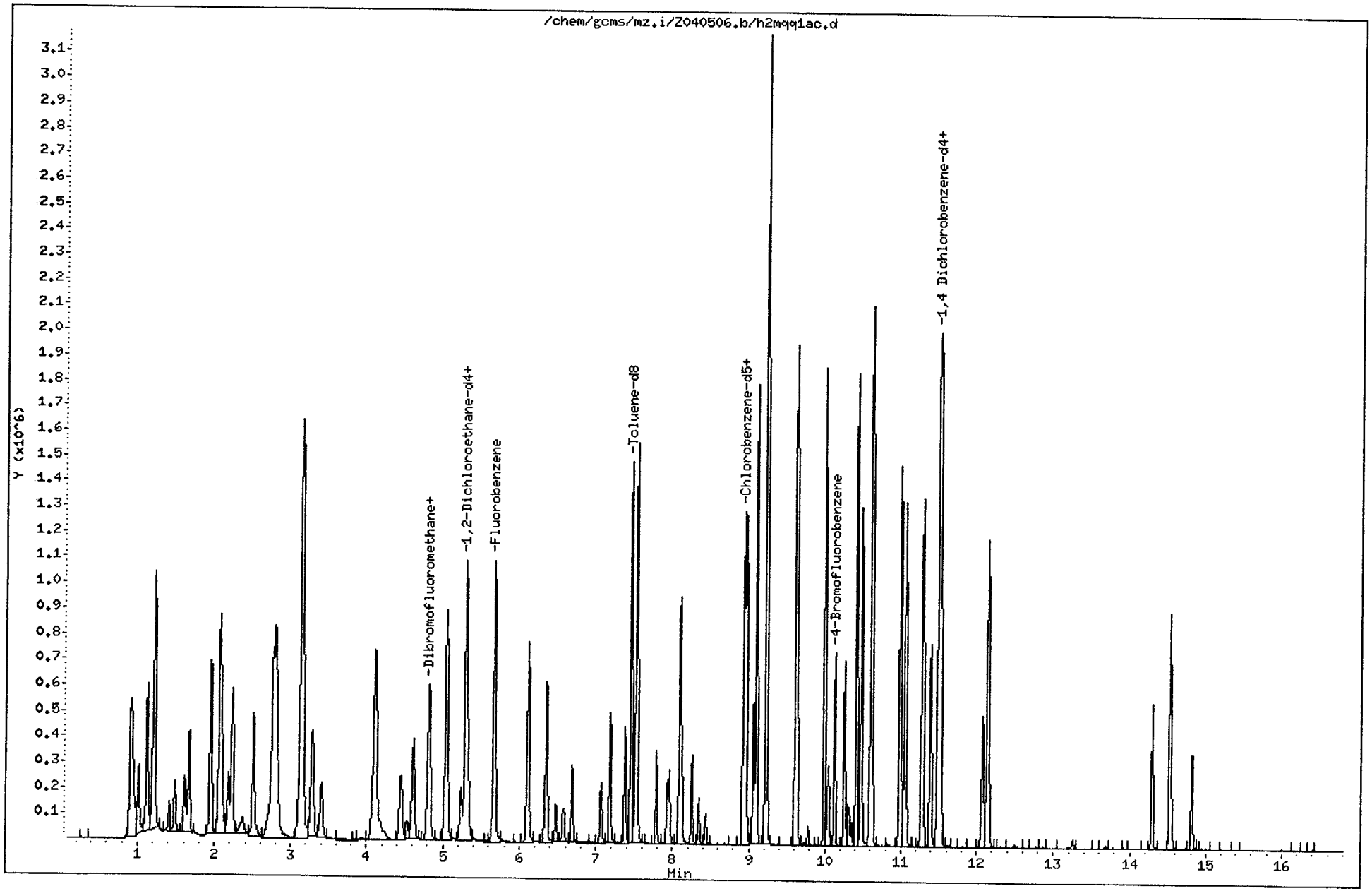
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

1806

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Date : 05-APR-2006 15:05
Client ID: INTRA-LAB CHECK
Sample Info: H2MQQ1AC,1,3,,LCS
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mz.i

Operator: 063605
Column diameter: 0.18



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AA **Matrix.....:** AIR
MB Lot-Sample #: H6D060000-033

Prep Date.....: 04/06/06
Analysis Date..: 04/07/06 **Prep Batch #...:** 6096033
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**0.095 J**	**0.10**	**ug**	**SW846 VOST**
Acrylonitrile	ND	0.50	ug	SW846 VOST
Benzene	ND	0.010	ug	SW846 VOST
Bromobenzene	ND	0.010	ug	SW846 VOST
Bromochloromethane	ND	0.025	ug	SW846 VOST
Bromodichloromethane	ND	0.010	ug	SW846 VOST
Bromoform	ND	0.025	ug	SW846 VOST
Bromomethane	**0.026 J**	**0.050**	**ug**	**SW846 VOST**
2-Butanone	ND	0.10	ug	SW846 VOST
n-Butylbenzene	ND	0.010	ug	SW846 VOST
sec-Butylbenzene	ND	0.010	ug	SW846 VOST
tert-Butylbenzene	ND	0.010	ug	SW846 VOST
Carbon disulfide	ND	0.010	ug	SW846 VOST
Carbon tetrachloride	ND	0.010	ug	SW846 VOST
Chlorobenzene	ND	0.010	ug	SW846 VOST
Chlorodibromomethane	ND	0.025	ug	SW846 VOST
Chloroethane	ND	0.050	ug	SW846 VOST
Chloroform	ND	0.010	ug	SW846 VOST
Chloromethane	ND	0.010	ug	SW846 VOST
2-Chlorotoluene	ND	0.010	ug	SW846 VOST
4-Chlorotoluene	ND	0.010	ug	SW846 VOST
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	SW846 VOST
1,2-Dibromoethane	ND	0.025	ug	SW846 VOST
Dibromomethane	ND	0.025	ug	SW846 VOST
1,2-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,3-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,4-Dichlorobenzene	ND	0.010	ug	SW846 VOST
Dichlorodifluoromethane	ND	0.025	ug	SW846 VOST
1,1-Dichloroethane	ND	0.010	ug	SW846 VOST
1,2-Dichloroethane	ND	0.010	ug	SW846 VOST
cis-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
trans-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
1,1-Dichloroethene	ND	0.010	ug	SW846 VOST
1,2-Dichloropropane	ND	0.010	ug	SW846 VOST
1,3-Dichloropropane	ND	0.010	ug	SW846 VOST
2,2-Dichloropropane	ND	0.010	ug	SW846 VOST
cis-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
trans-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
1,1-Dichloropropene	ND	0.010	ug	SW846 VOST
Ethylbenzene	ND	0.010	ug	SW846 VOST

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	0.025	ug	SW846 VOST
2-Hexanone	ND	0.10	ug	SW846 VOST
Iodomethane	**0.014 J**	**0.050**	**ug**	**SW846 VOST**
Isopropylbenzene	ND	0.010	ug	SW846 VOST
p-Isopropyltoluene	ND	0.010	ug	SW846 VOST
Methylene chloride	ND	0.025	ug	SW846 VOST
4-Methyl-2-pentanone	ND	0.10	ug	SW846 VOST
Naphthalene	ND	0.025	ug	SW846 VOST
n-Propylbenzene	ND	0.010	ug	SW846 VOST
Styrene	ND	0.010	ug	SW846 VOST
1,1,1,2-Tetrachloroethane	ND	0.010	ug	SW846 VOST
1,1,2,2-Tetrachloroethane	ND	0.025	ug	SW846 VOST
Tetrachloroethene	ND	0.010	ug	SW846 VOST
Tetrahydrofuran	ND	0.10	ug	SW846 VOST
Toluene	ND	0.010	ug	SW846 VOST
1,2,3-Trichlorobenzene	ND	0.025	ug	SW846 VOST
1,2,4-Trichloro-benzene	ND	0.025	ug	SW846 VOST
1,1,1-Trichloroethane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloroethane	ND	0.025	ug	SW846 VOST
Trichloroethene	ND	0.010	ug	SW846 VOST
Trichlorofluoromethane	ND	0.050	ug	SW846 VOST
1,2,3-Trichloropropane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	SW846 VOST
1,2,4-Trimethylbenzene	ND	0.010	ug	SW846 VOST
1,3,5-Trimethylbenzene	ND	0.010	ug	SW846 VOST
Vinyl acetate	ND	0.050	ug	SW846 VOST
Vinyl chloride	ND	0.010	ug	SW846 VOST
m-Xylene & p-Xylene	ND	0.020	ug	SW846 VOST
o-Xylene	ND	0.010	ug	SW846 VOST
Xylenes (total)	ND	0.030	ug	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(50 - 134)
1,2-Dichloroethane-d4	91	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	79	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D060000-033 B **Work Order #:** H2N441AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /var/chem/gcms/mz.i/Z040706.b/h2n441aa.d
Report Date: 07-Apr-2006 10:25

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2n441aa.d
Lab Smp Id: H2N441AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 07-APR-2006 09:47
Operator : 22980 Inst ID: mz.i
Smp Info : H2N441AA,1,3,,BLANK
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:40 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.672	5.676	(1.000)	870215	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.937	(1.000)	180272	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.492	(1.000)	245666	10.0000	
$ 4 Dibromofluoromethane	113	4.827	4.831	(0.851)	141293	10.1329	0.25332
$ 5 1,2-Dichloroethane-d4	65	5.234	5.238	(0.923)	109406	9.07330	0.22683
$ 6 Toluene-d8	98	7.461	7.465	(0.835)	752034	9.49438	0.23736
$ 7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	196022	7.91193	0.19780
15 Bromomethane	94	1.414	1.418	(0.249)	1986	1.04821	0.026205
22 Acetone	43	2.132	2.123	(0.376)	2885	3.79908	0.094977(M)
23 *Iodomethane	142	2.186	2.184	(0.385)	698	0.55299	0.013825
39 *THF	42	4.535	4.532	(0.799)	1549	0.75022	0.018756
44 Benzene	78	5.301	5.305	(0.935)	7063	0.08230	0.0020576
45 1,2-Dichloroethane	62	5.666	5.335	(0.999)	13293	0.73150	~~0.018287~~
53 4-Methyl-2-pentanone	43	7.461	7.386	(1.315)	6822	0.89770	~~0.022442~~
55 trans-1,3-Dichloropropene	75	7.461	7.793	(0.835)	160	0.63504	~~0.015876~~
69 Bromoform (spcc)	173	10.137	9.782	(1.135)	313	0.91005	~~0.022751~~

4/7/06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2n441aa.d
Report Date: 07-Apr-2006 10:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
89 1,2,4-Trichlorobenzene	180	14.298	14.303	(1.245)	2089	0.10864	0.0027160
91 Napthalene	128	14.548	14.552	(1.266)	2384	0.11823	0.0029556
92 1,2,3-Trichlorobenzene	180	14.828	14.820	(1.291)	1972	0.15568	0.0038921

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d
Report Date: 07-Apr-2006 10:05

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2n441aa.d
Lab Smp Id: H2N441AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	870215	-8.65
2 Chlorobenzene-d5	164101	82050	328202	180272	9.85
3 1,4 Dichlorobenze	204390	102195	408780	245666	20.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.07
2 Chlorobenzene-d5	8.94	8.44	9.44	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.03

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.

Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d
Report Date: 07-Apr-2006 10:05

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: H2N441AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,focus.sub

Client SDG: H6D060000
Fraction: VOA
Client Smp ID: INTRA-LAB BLANK
Operator: 22980
SampleType: METHOD BLANK
Quant Type: ISTD

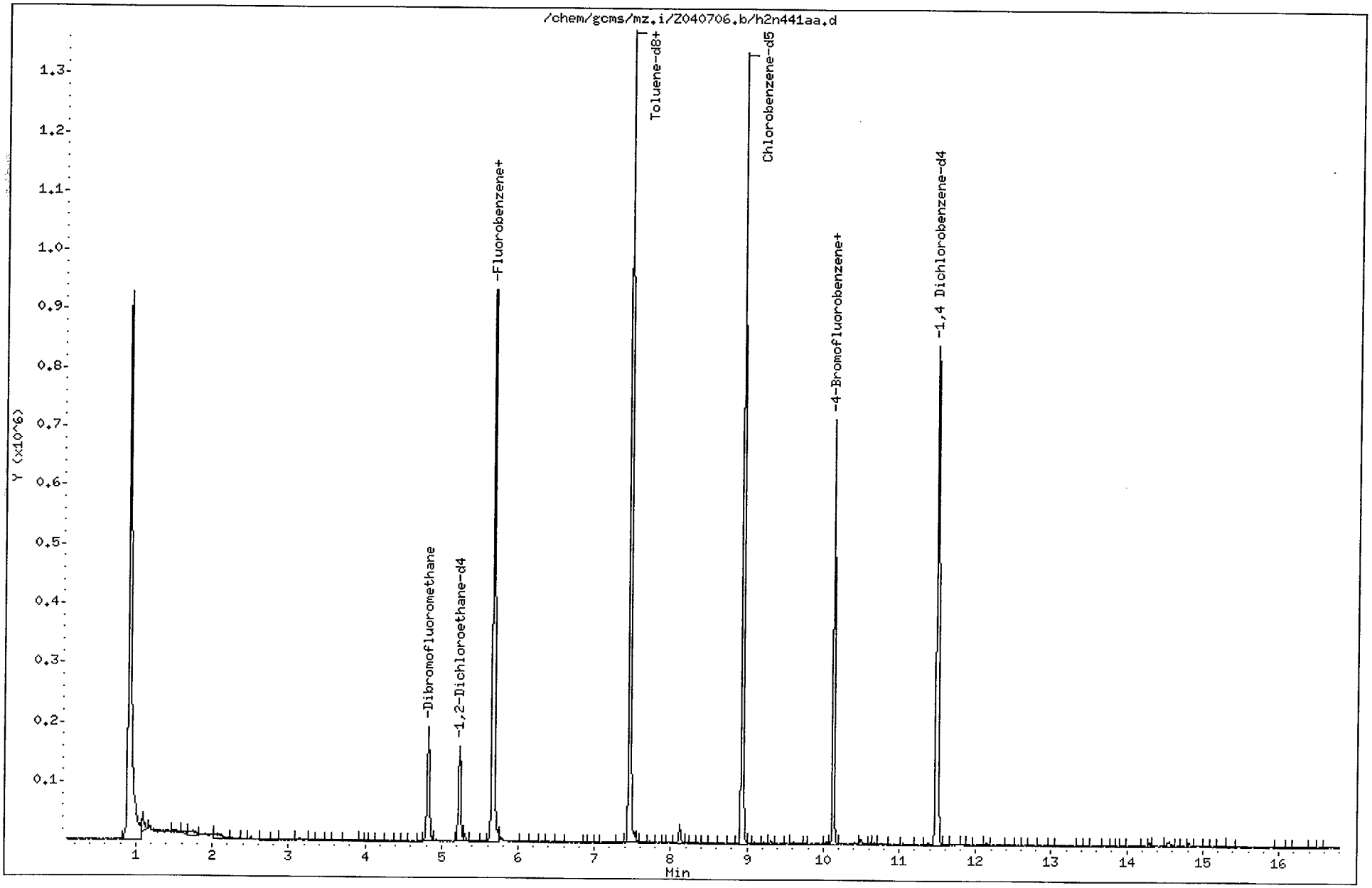
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.25332	101.33	50-150
$ 5 1,2-Dichloroethane	0.25000	0.22683	90.73	50-150
$ 6 Toluene-d8	0.25000	0.23736	94.94	50-150
$ 7 4-Bromofluorobenze	0.25000	0.19780	79.12	50-150

Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d
Date : 07-APR-2006 09:47
Client ID: INTRA-LAB BLANK
Sample Info: H2N441AA,1,3,,BLANK

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

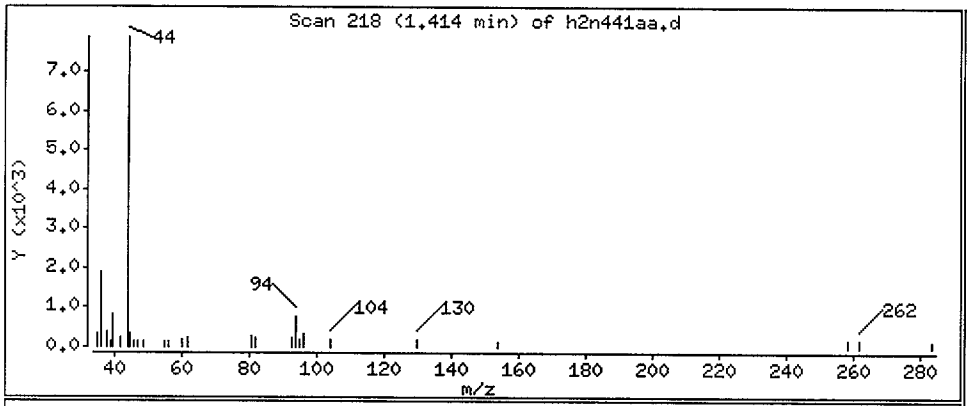
Operator: 22980

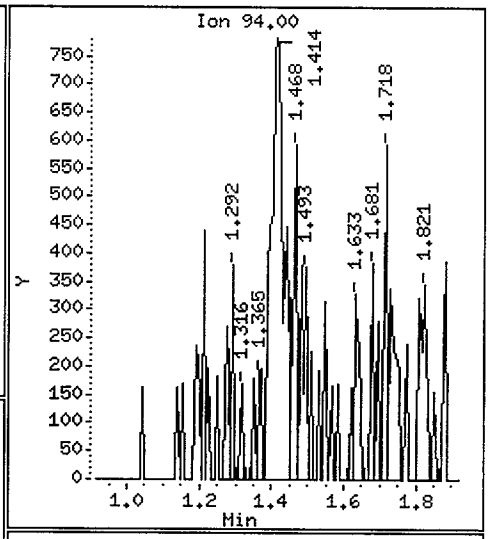
Column phase: J+W 624

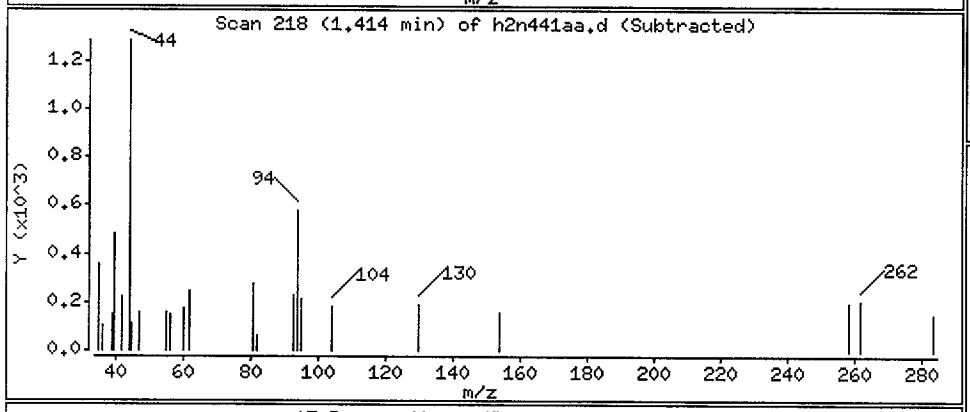
Column diameter: 0.18

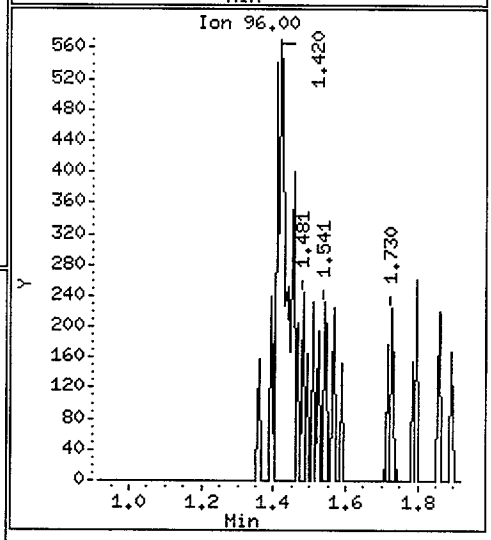
15 Bromomethane

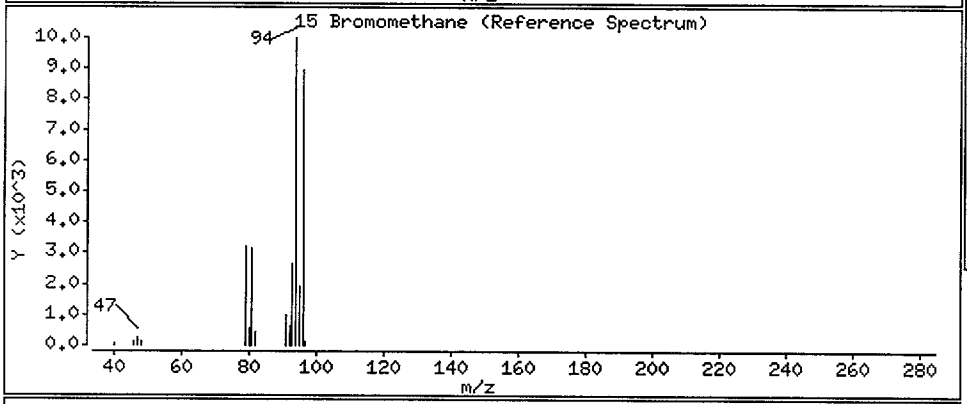
Concentration: 0.026207 ug

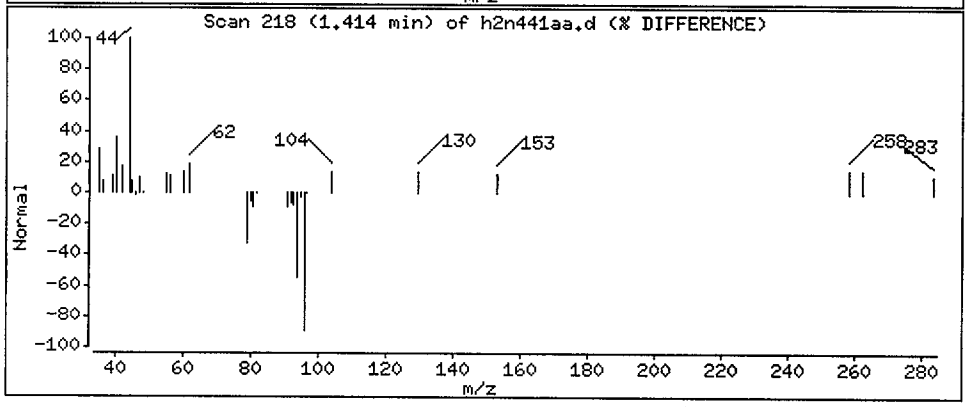












Data File: /var/chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

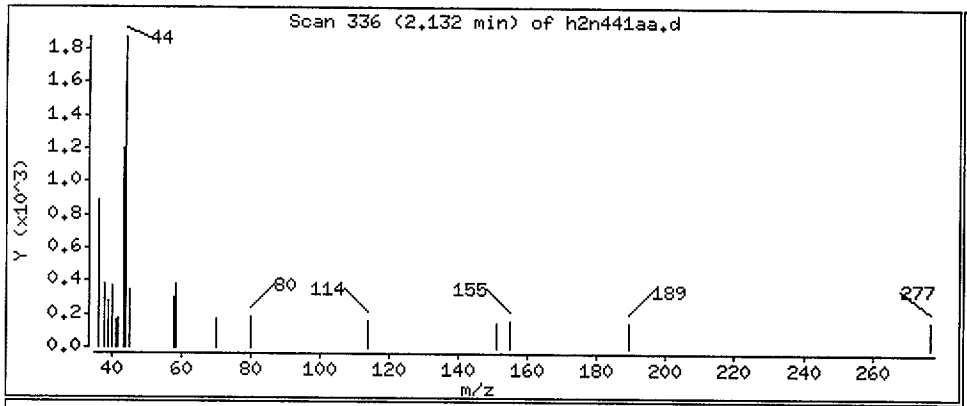
Operator: 22980

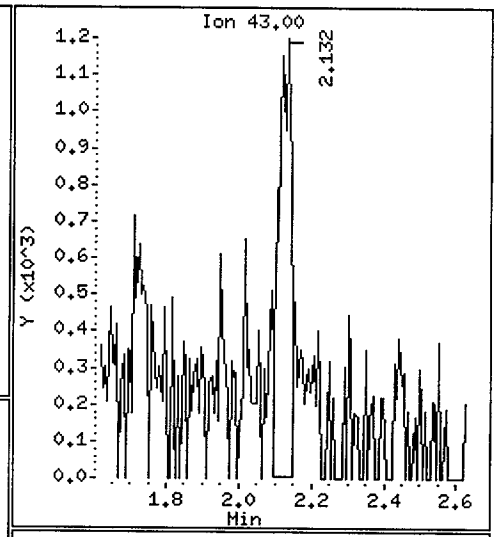
Column phase: J+W 624

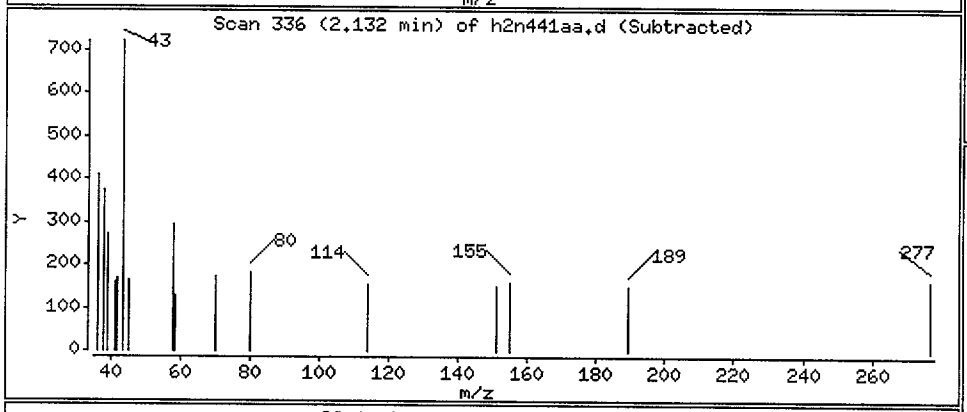
Column diameter: 0.18

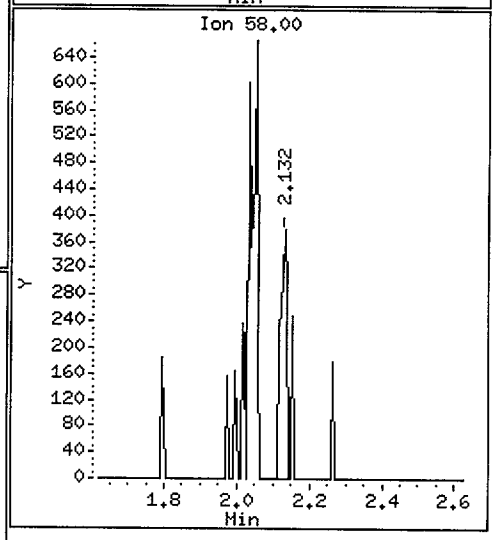
22 Acetone

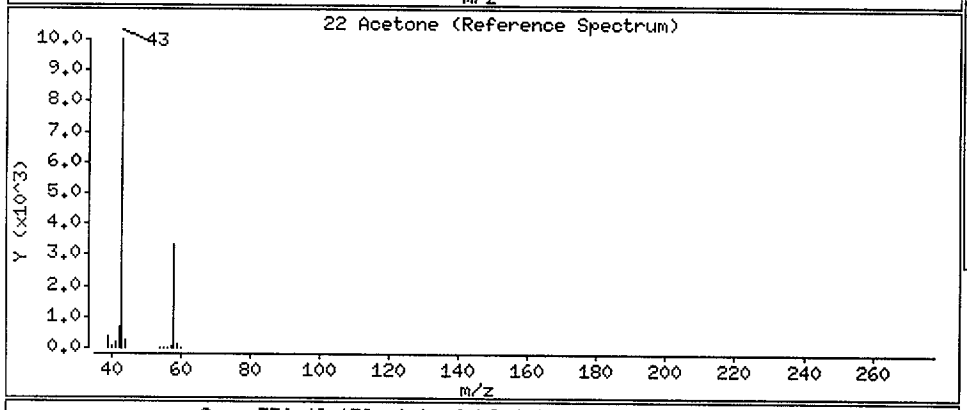
Concentration: 0.094977 ug

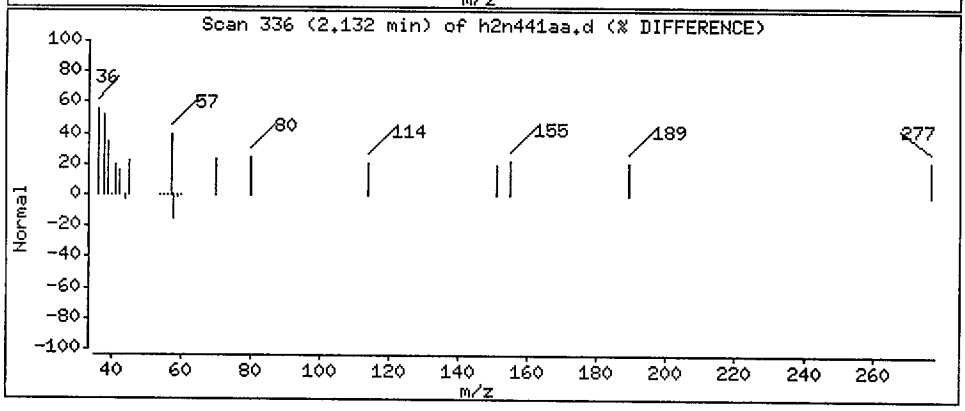












4/7/06

Split peak

Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

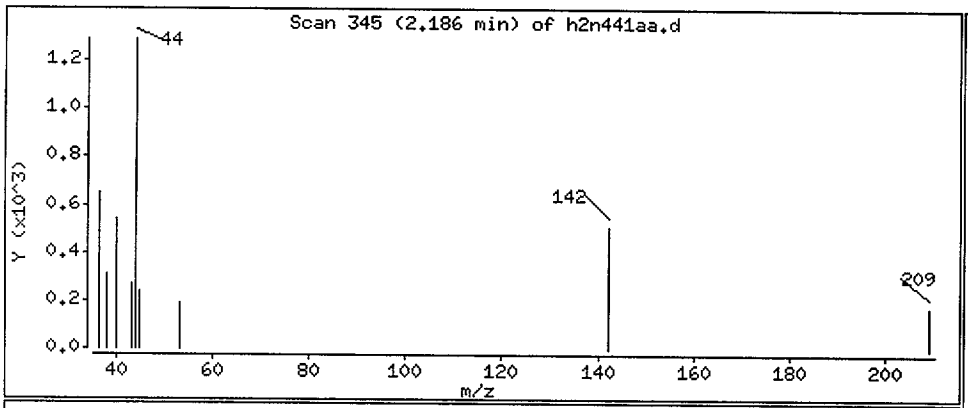
Operator: 22980

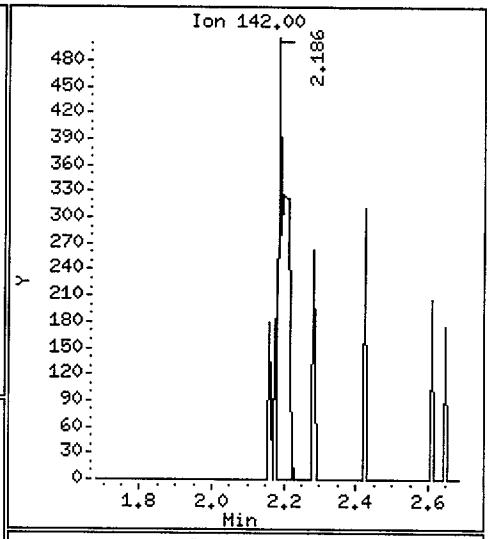
Column phase: J+W 624

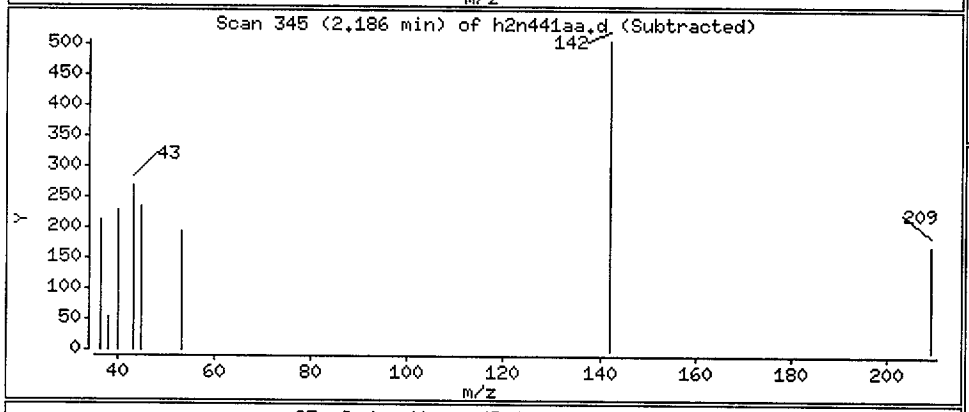
Column diameter: 0.18

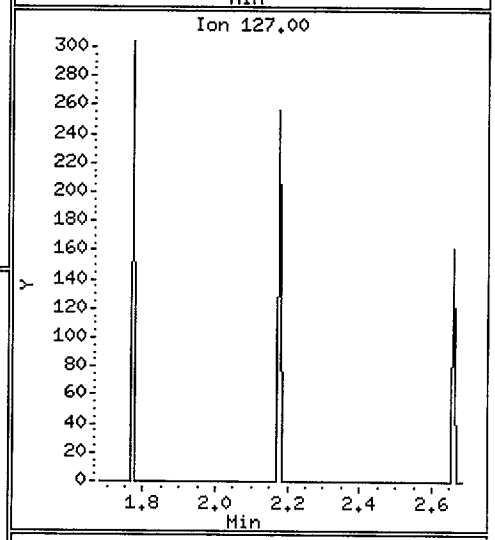
23 *Iodomethane

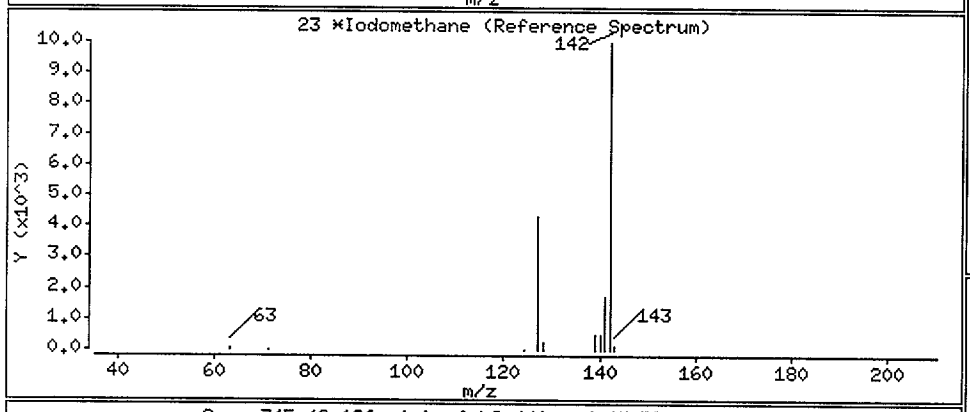
Concentration: 0.013826 ug

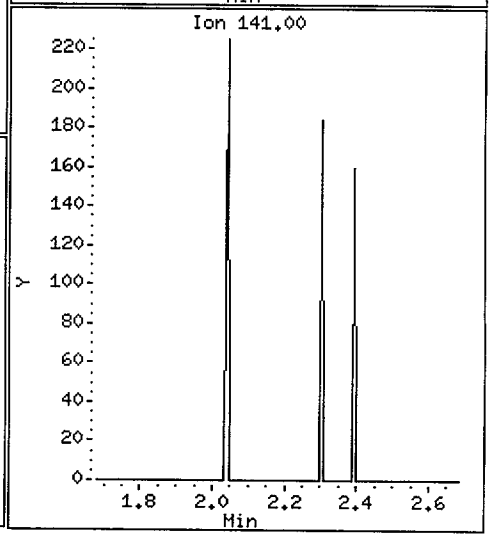


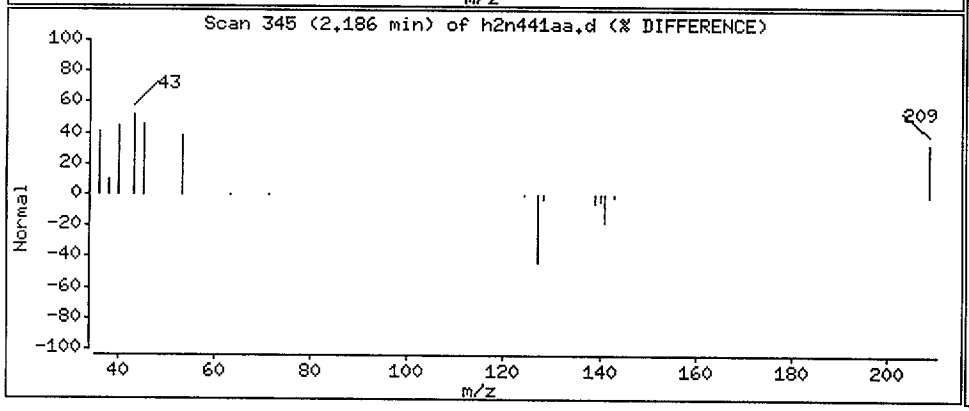












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

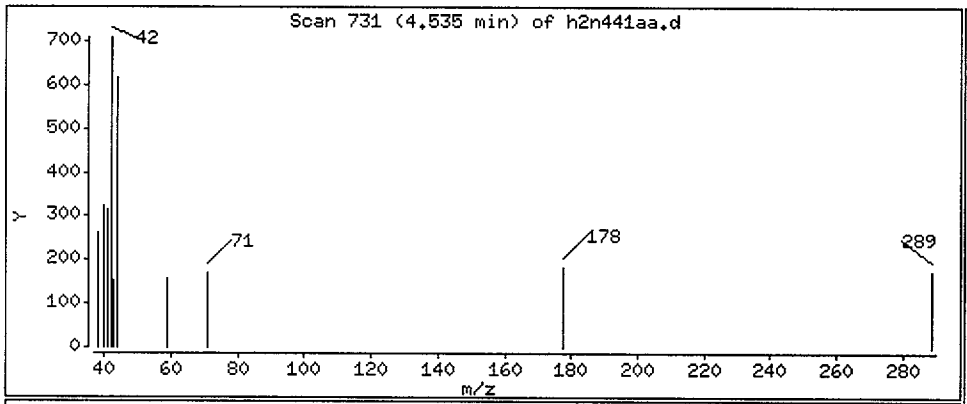
Operator: 22980

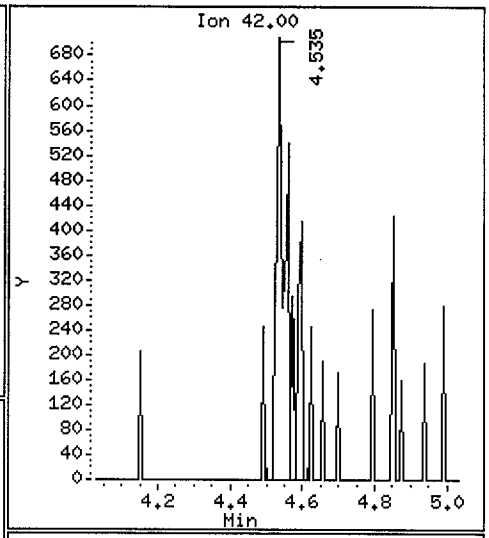
Column phase: J+W 624

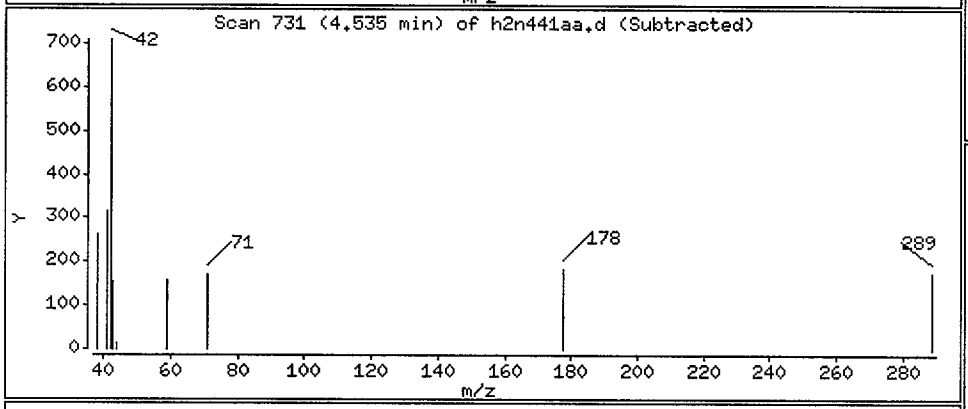
Column diameter: 0.18

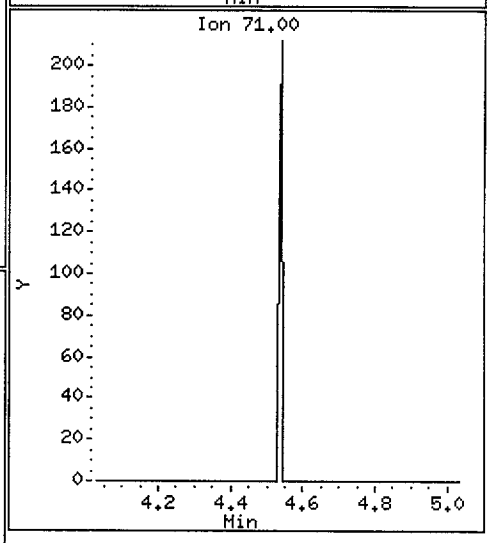
39 *THF

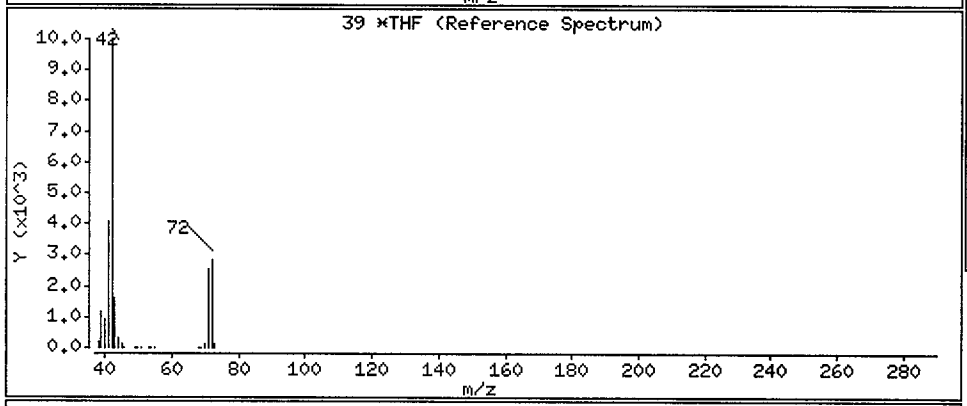
Concentration: 0.018761 ug

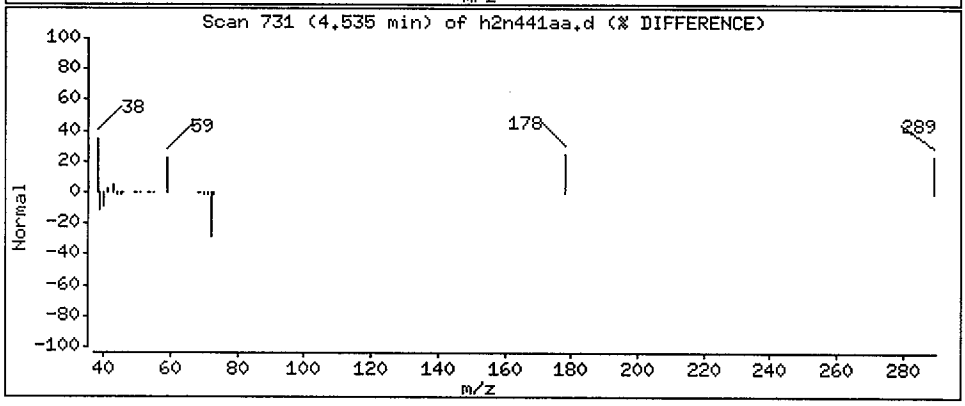












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

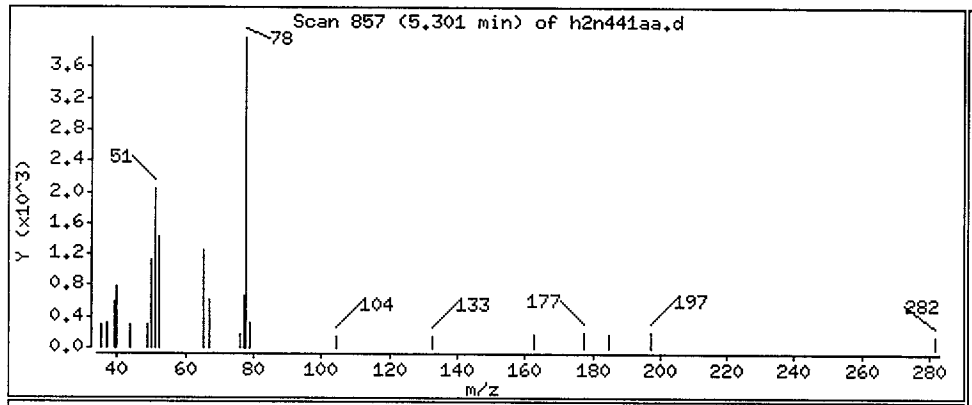
Operator: 22980

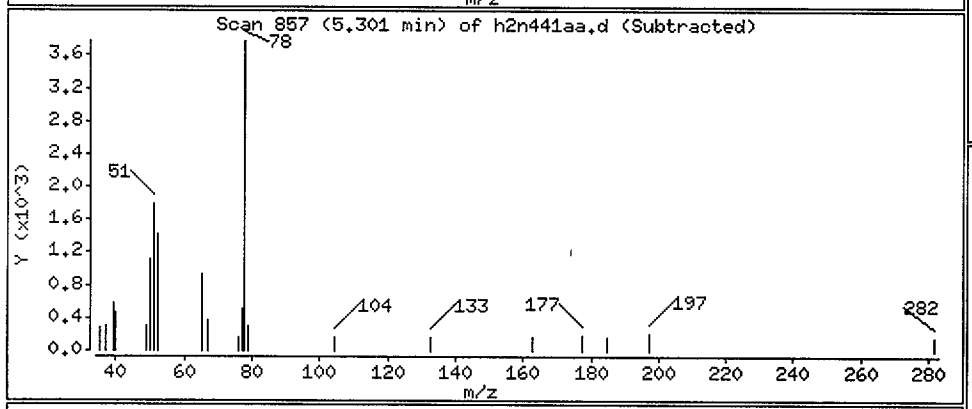
Column phase: J+W 624

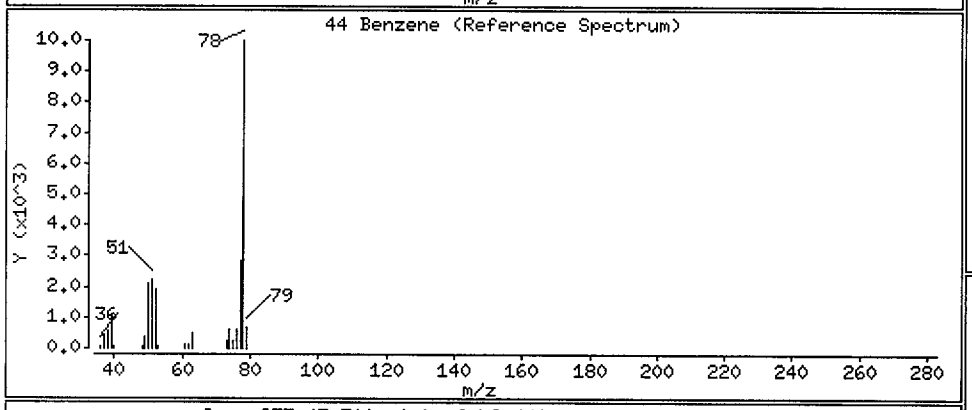
Column diameter: 0.18

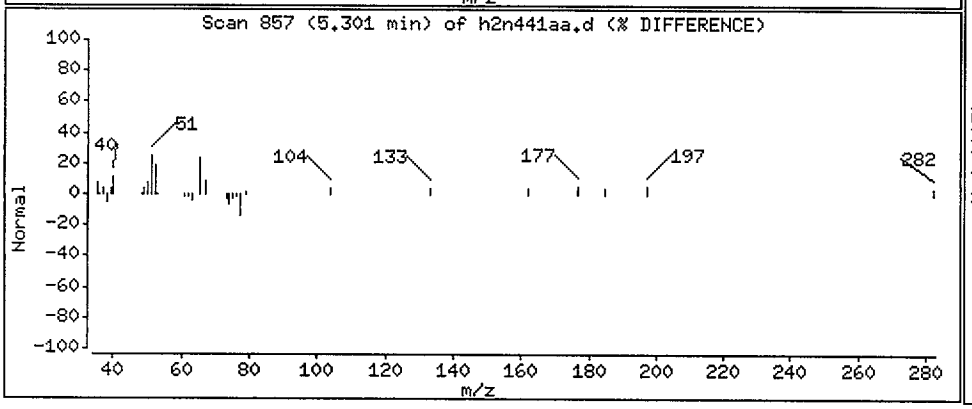
44 Benzene

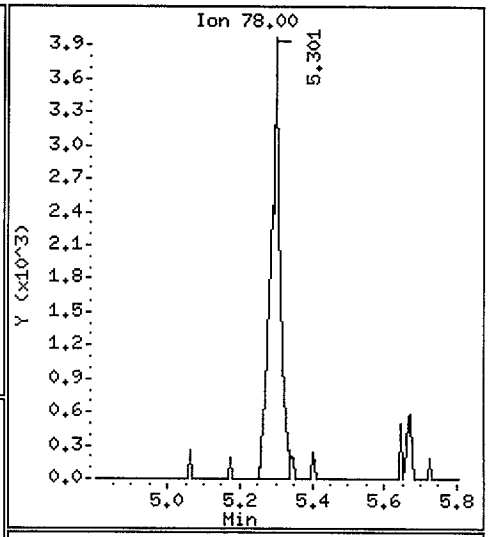
Concentration: 0.0020576 ug

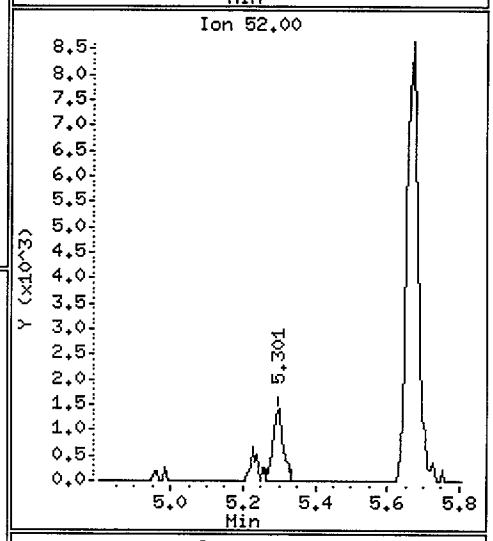


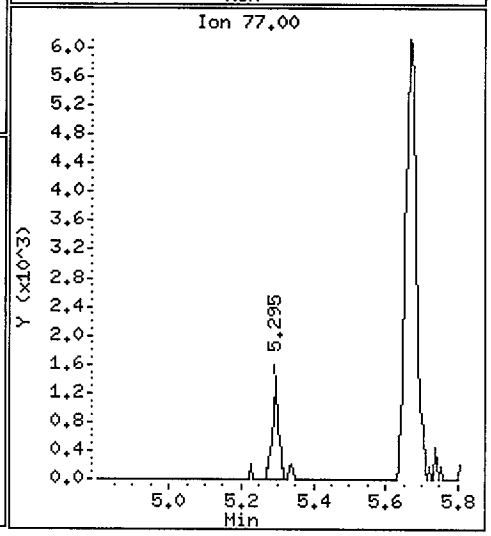












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

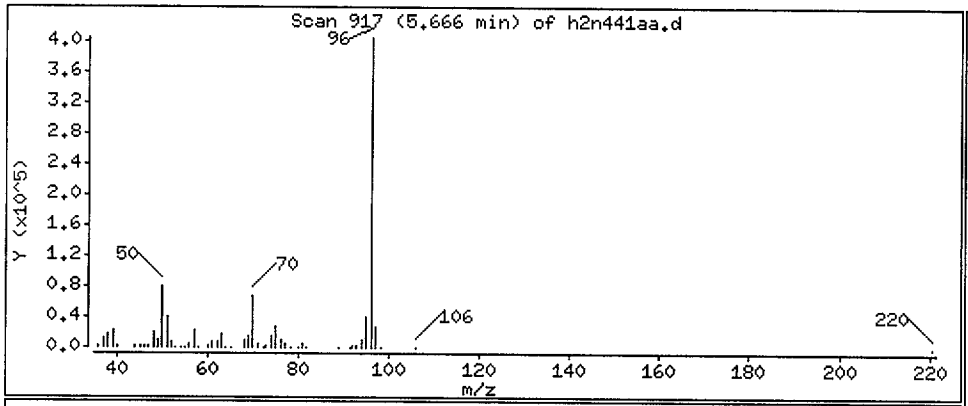
Operator: 22980

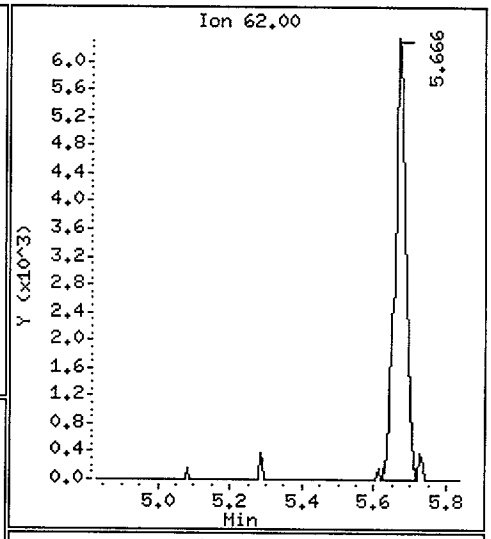
Column phase: J+W 624

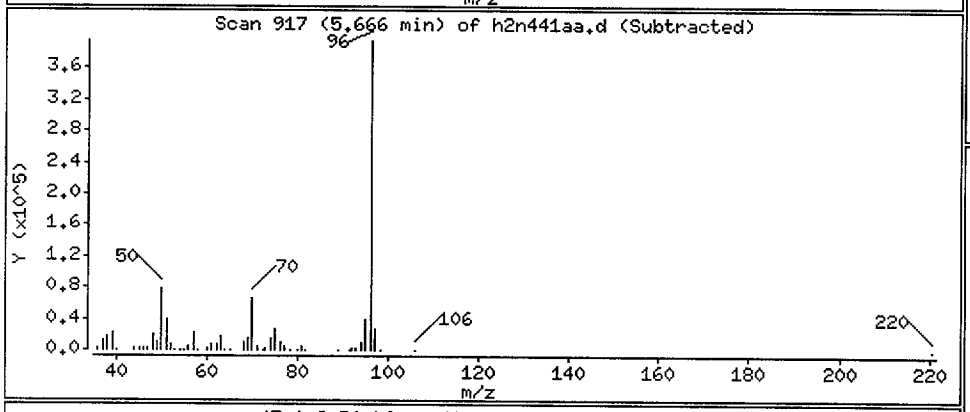
Column diameter: 0.18

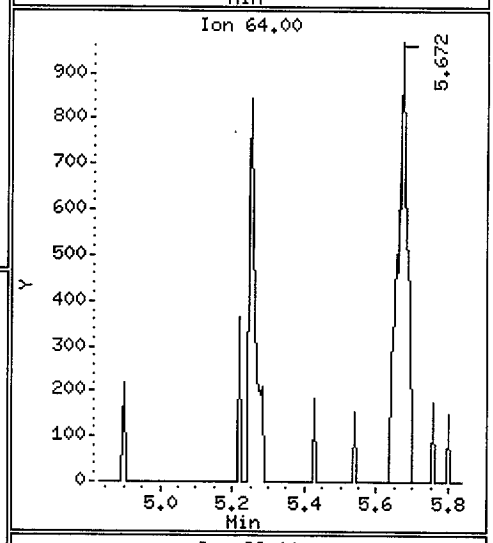
45 1,2-Dichloroethane

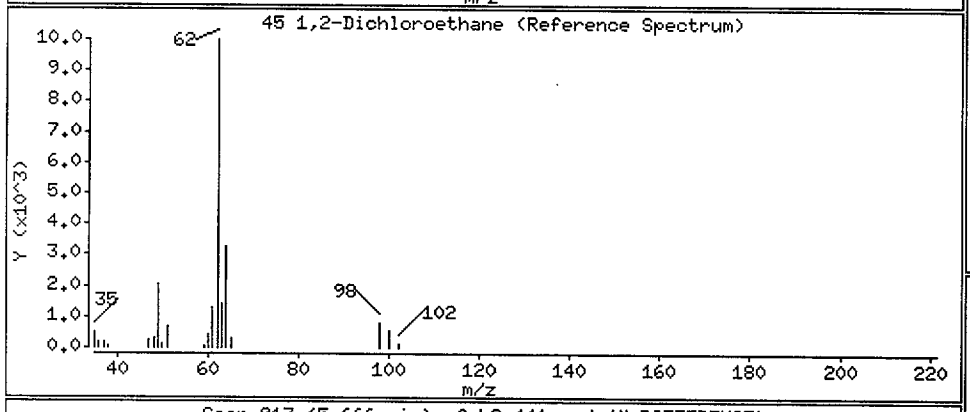
Concentration: 0.018288 ug

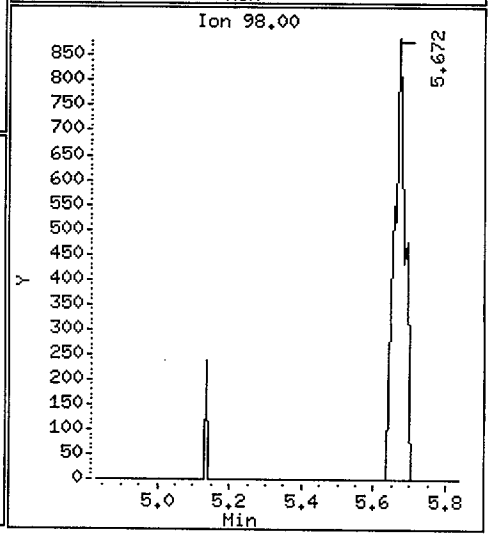


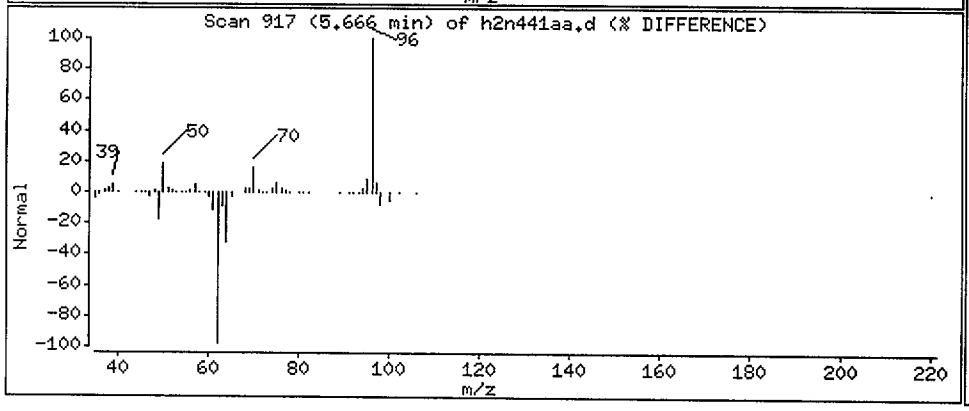












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

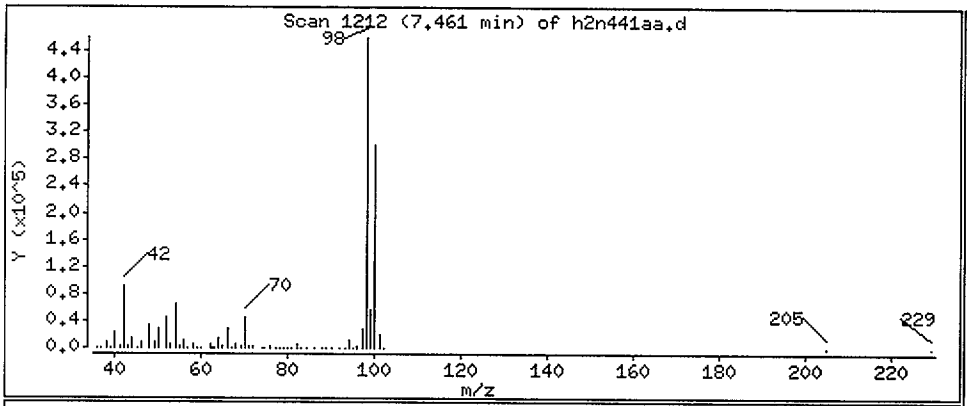
Operator: 22980

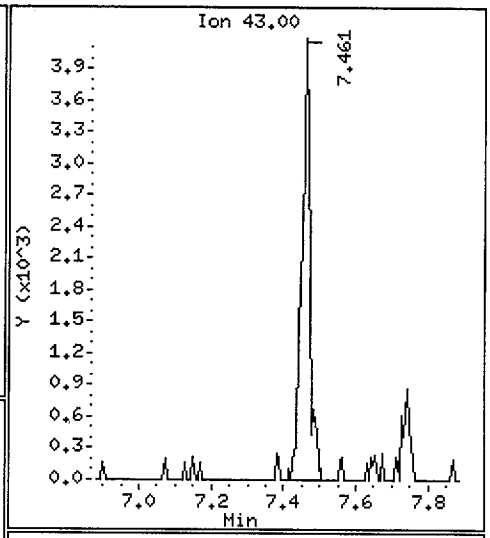
Column phase: J+W 624

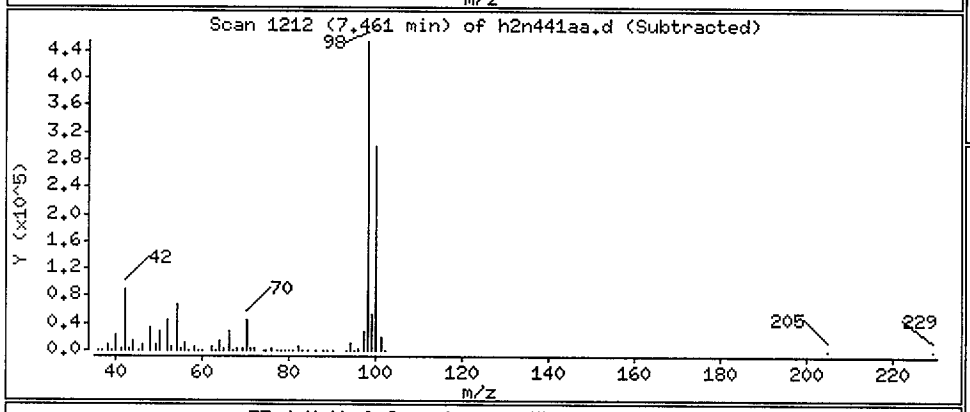
Column diameter: 0.18

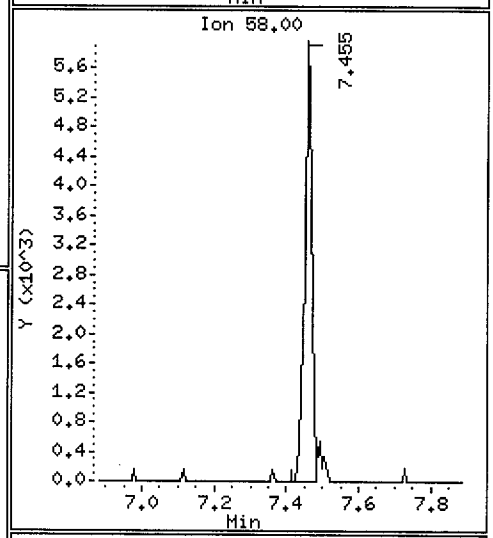
53 4-Methyl-2-pentanone

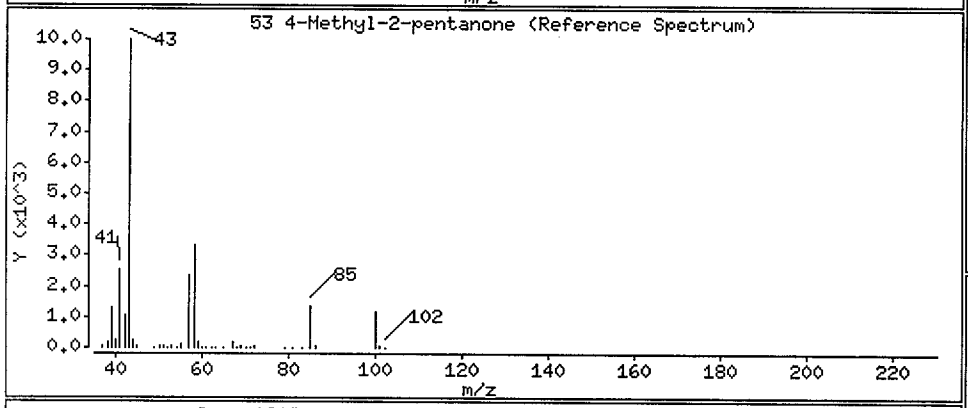
Concentration: 0.022443 ug

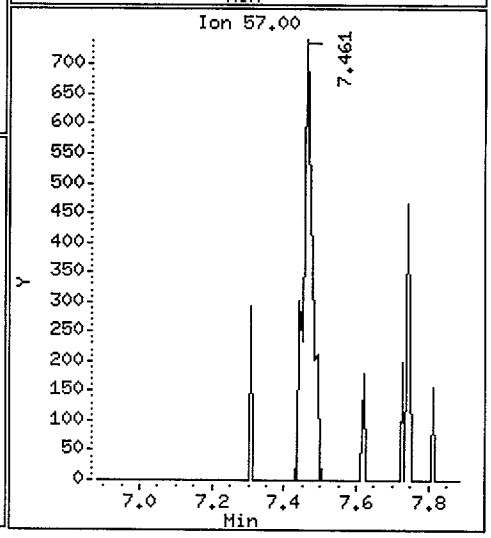


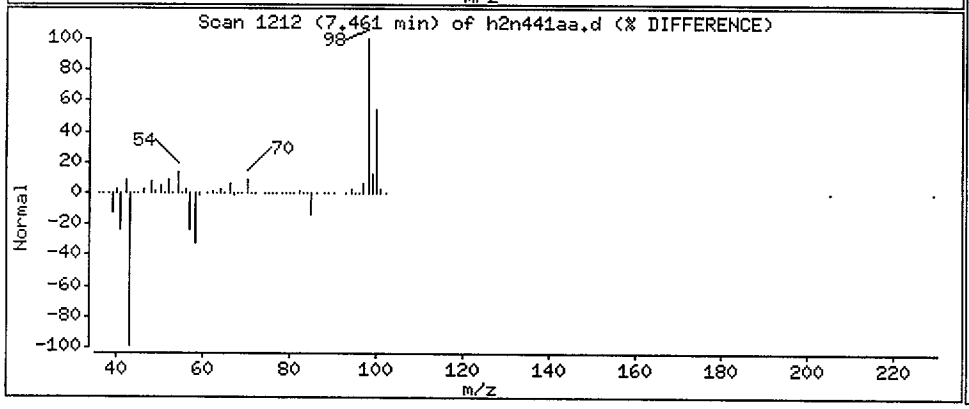












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

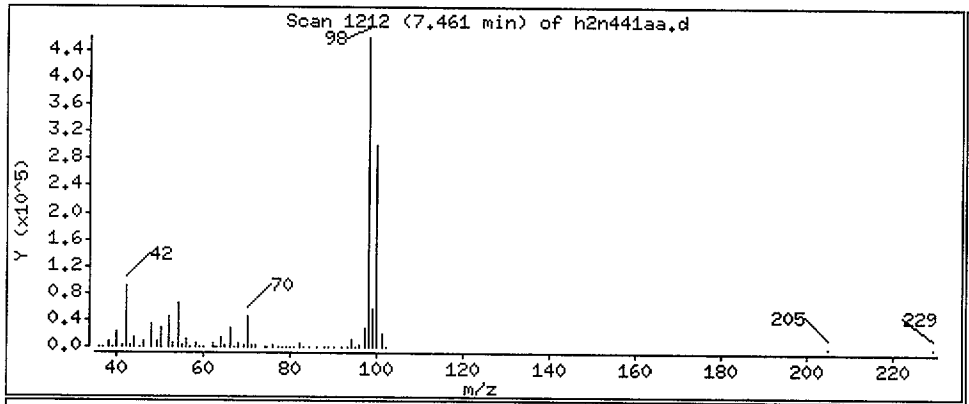
Operator: 22980

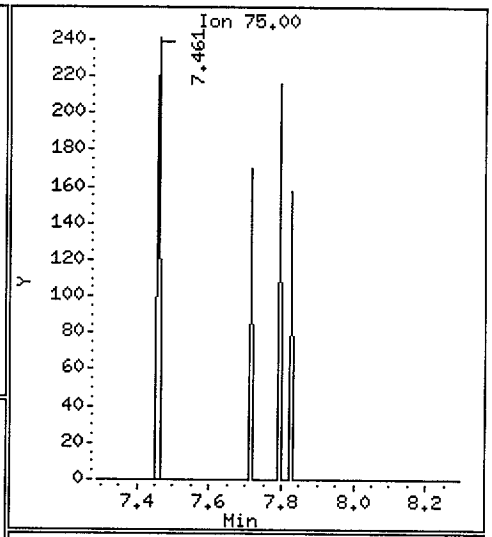
Column phase: J+W 624

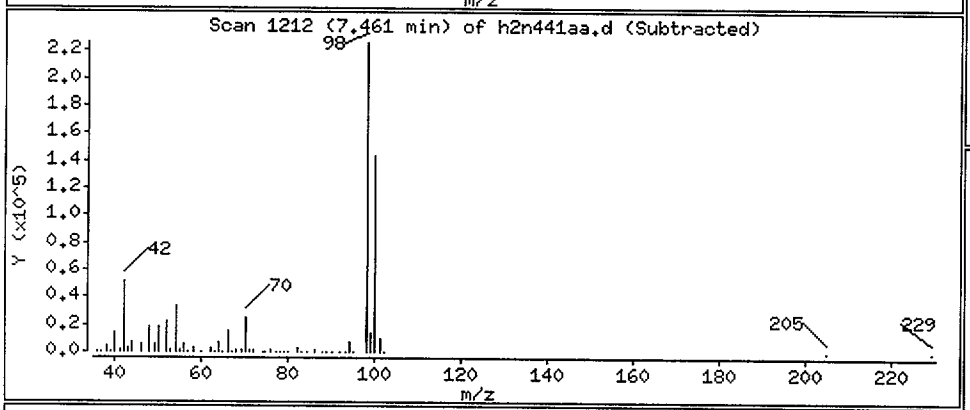
Column diameter: 0.18

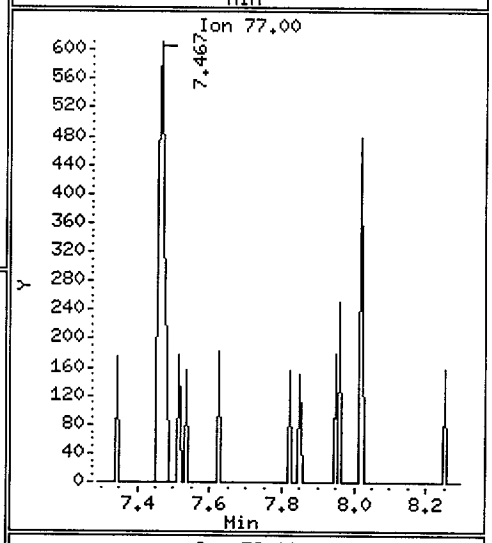
55 trans-1,3-Dichloropropene

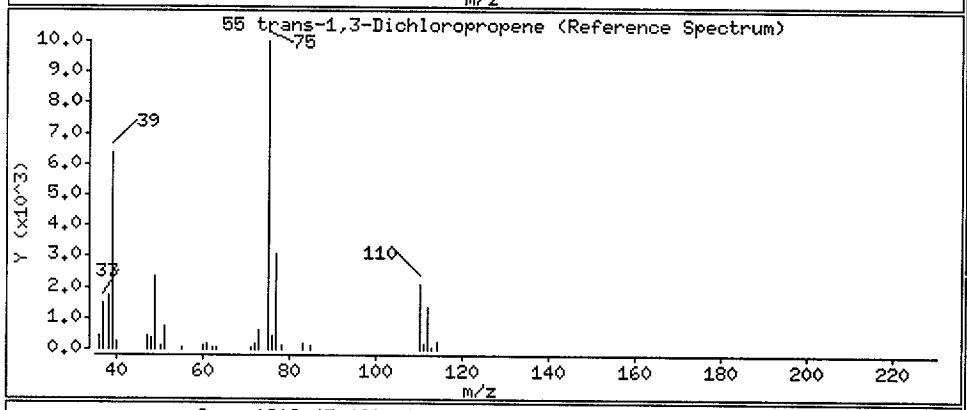
Concentration: 0.015877 ug

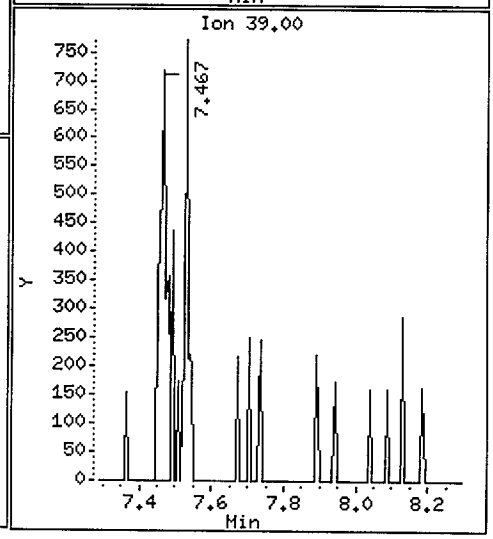


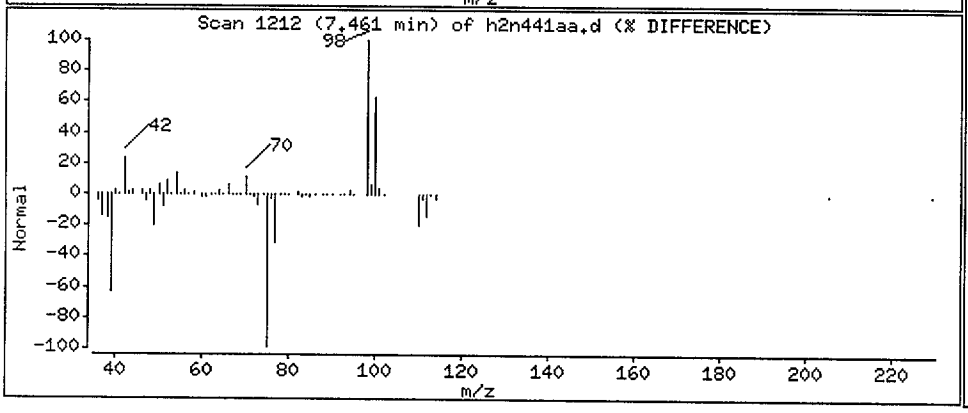












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

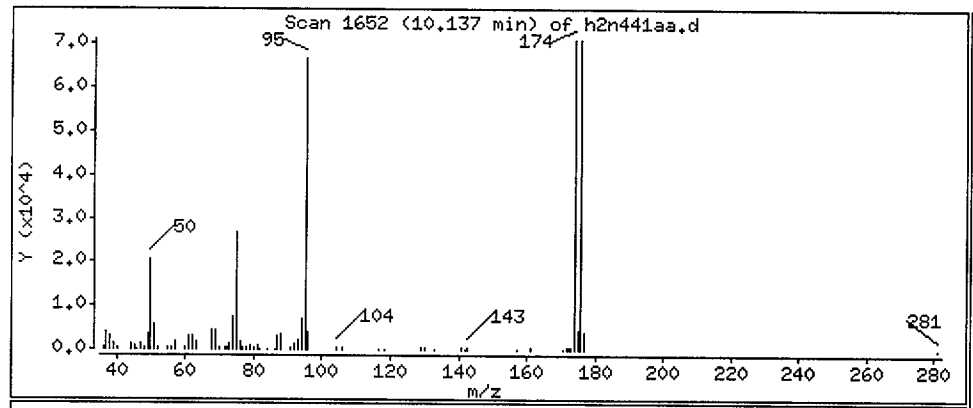
Operator: 22980

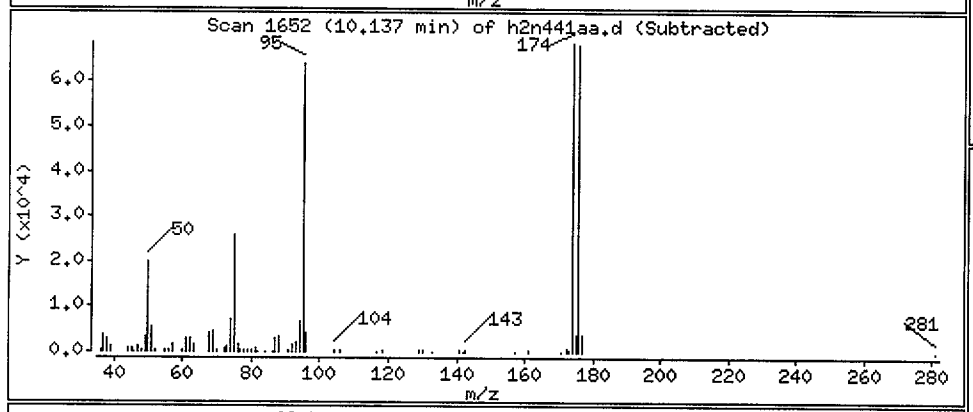
Column phase: J+W 624

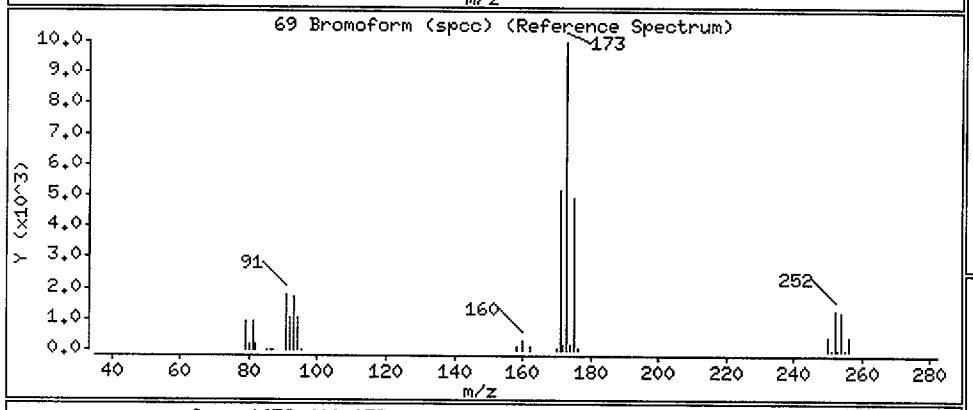
Column diameter: 0.18

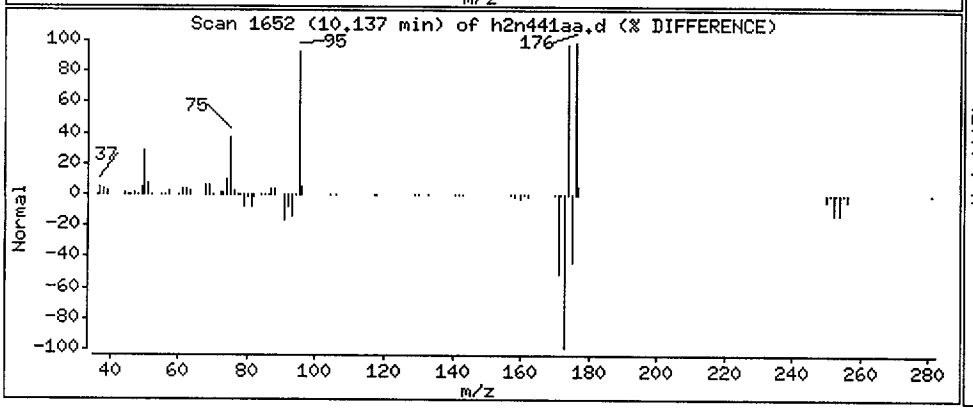
69 Bromoform (spcc)

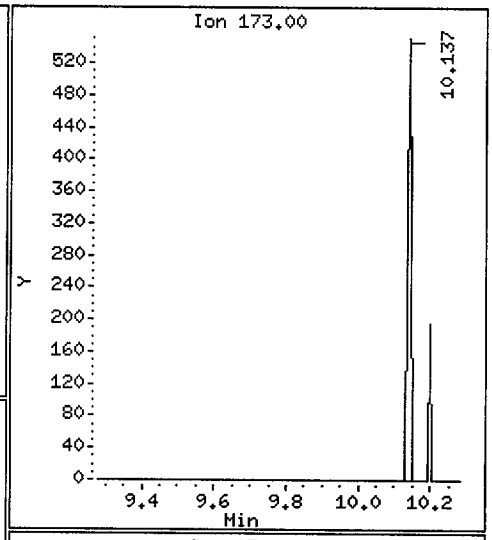
Concentration: 0.022757 ug

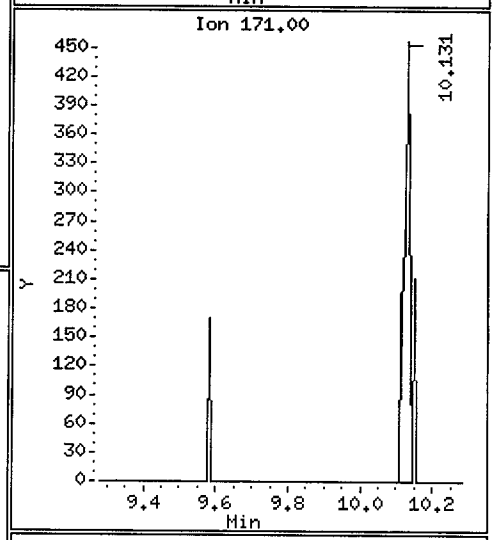


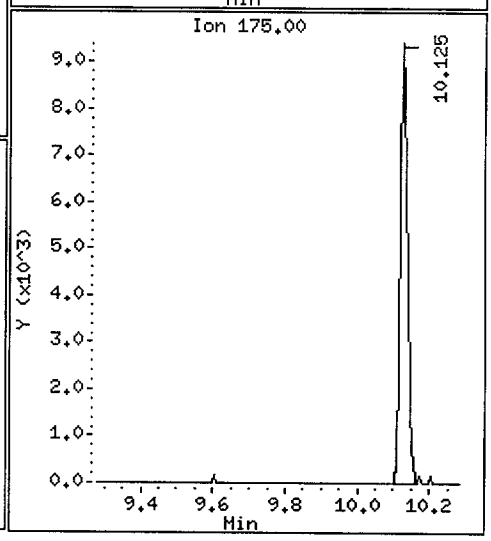












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

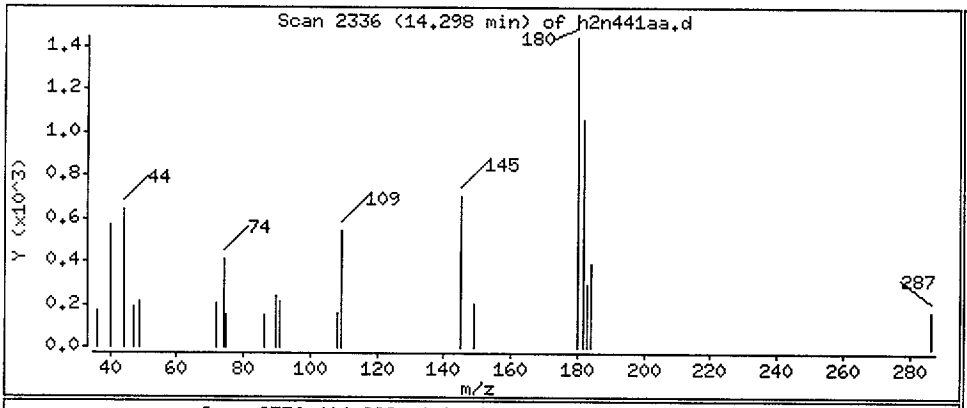
Operator: 22980

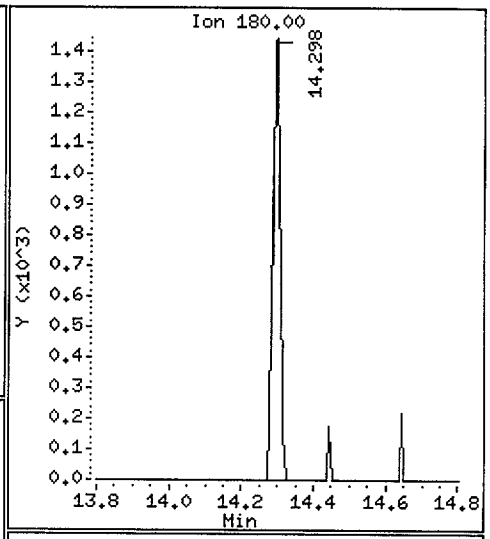
Column phase: J+W 624

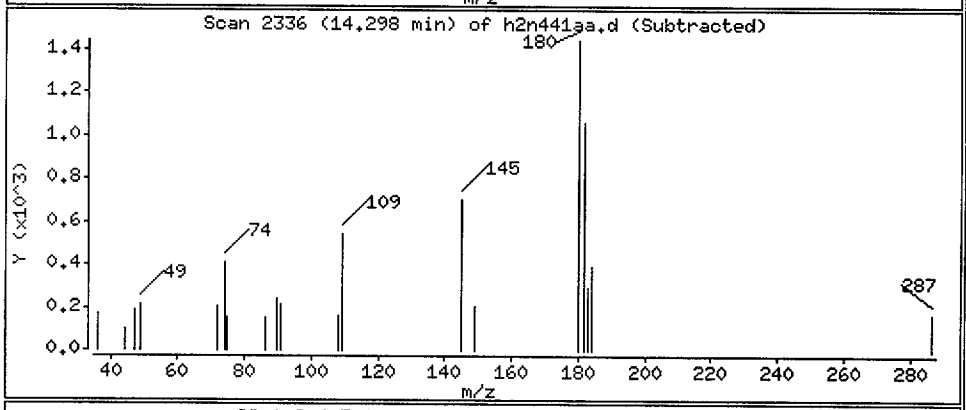
Column diameter: 0.18

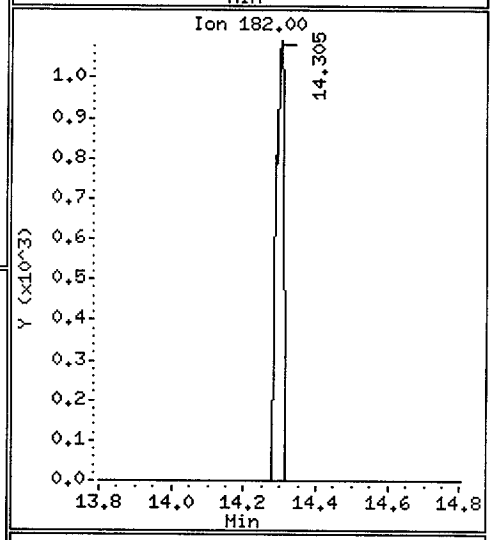
89 1,2,4-Trichlorobenzene

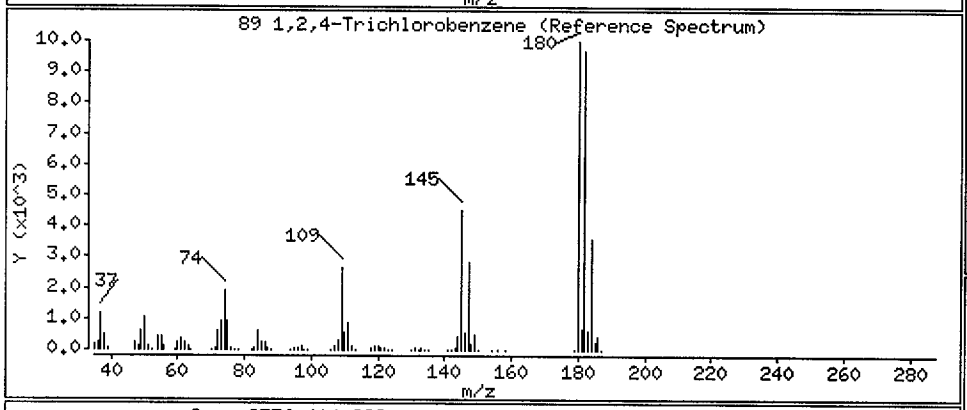
Concentration: 0.0027168 ug

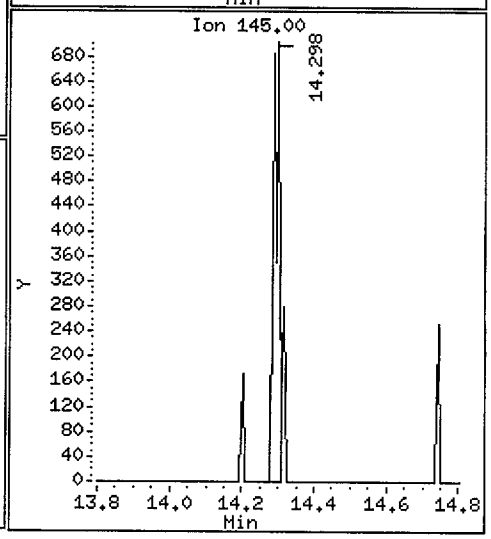


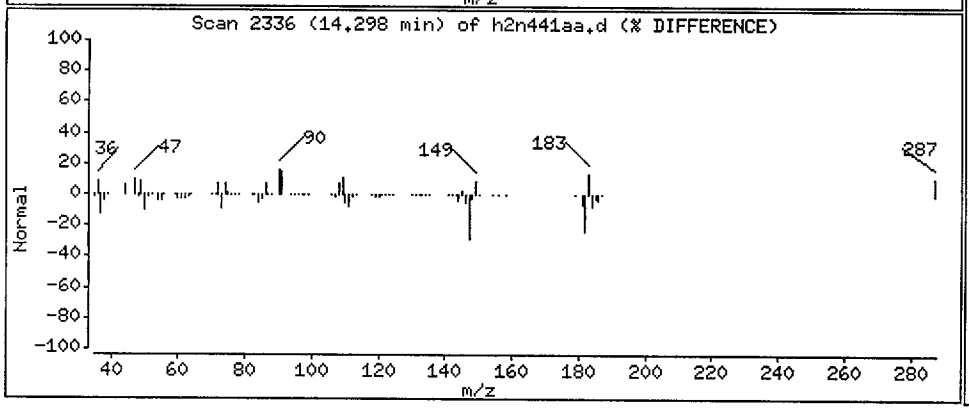












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

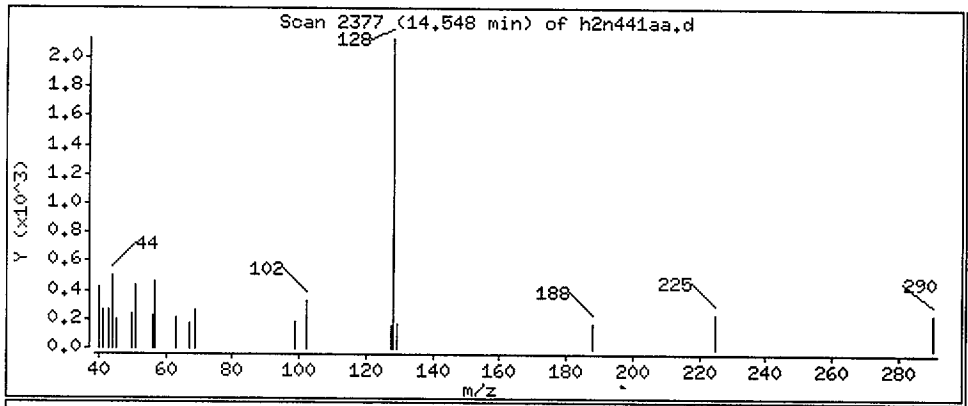
Operator: 22980

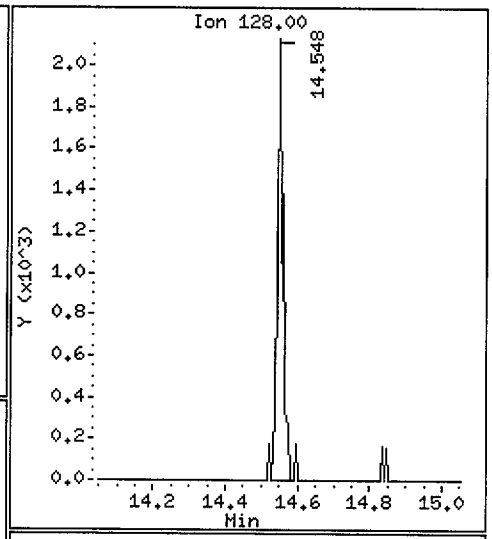
Column phase: J+W 624

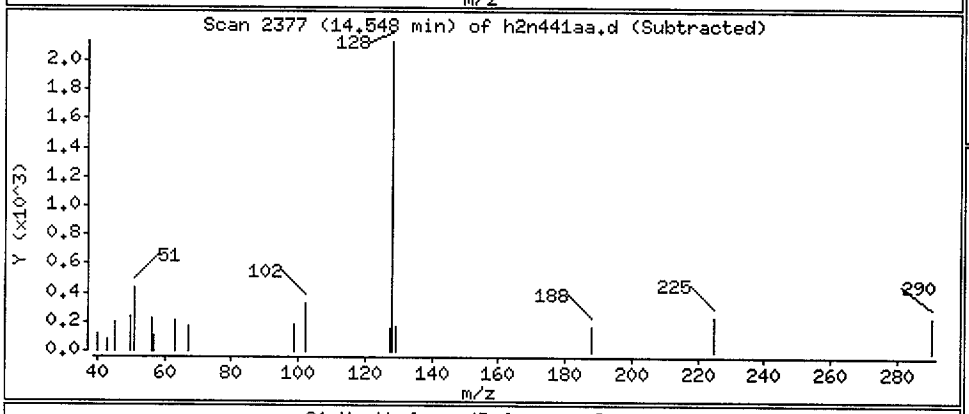
Column diameter: 0.18

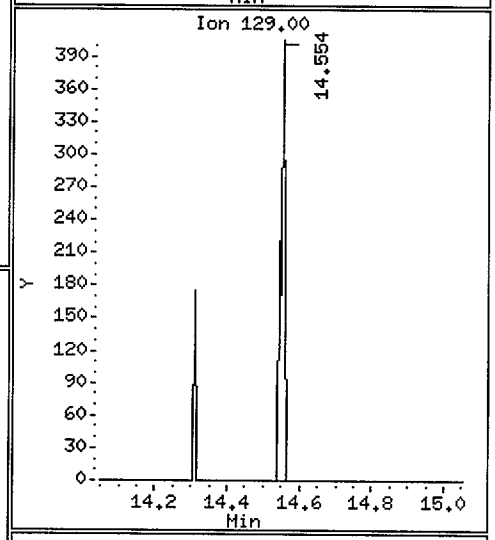
91 Napthalene

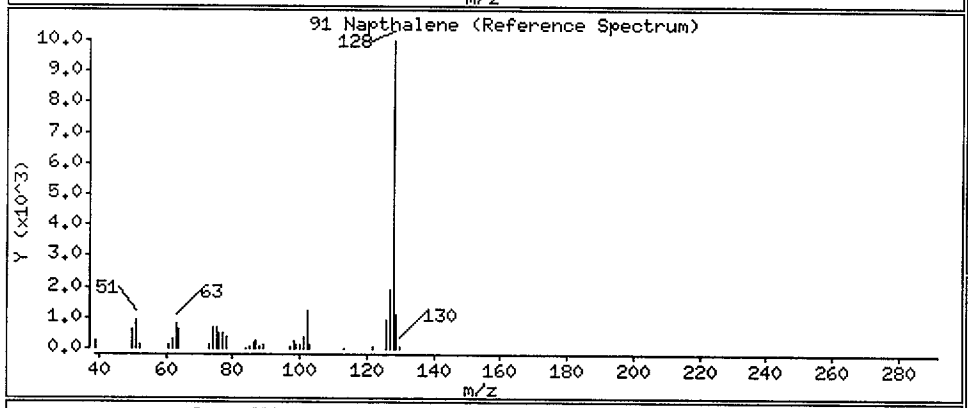
Concentration: 0.0029559 ug

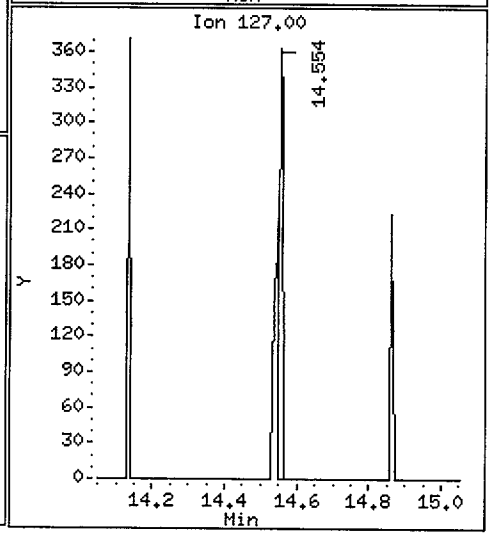


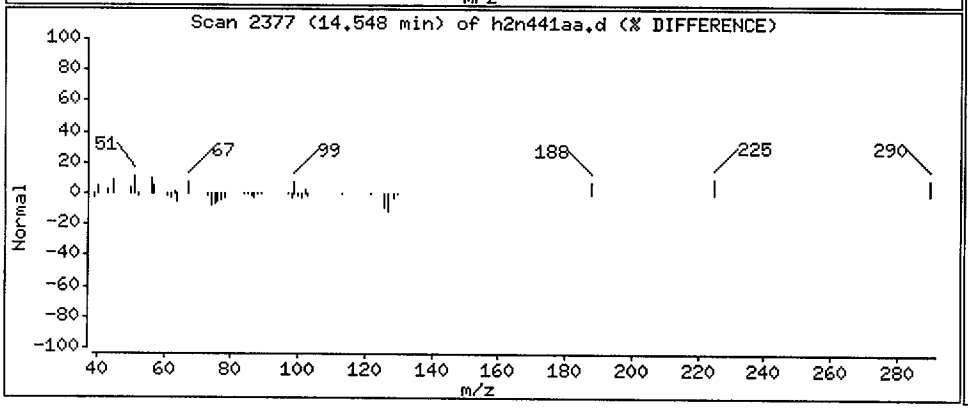












Data File: /chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2N441AA,1,3,,BLANK

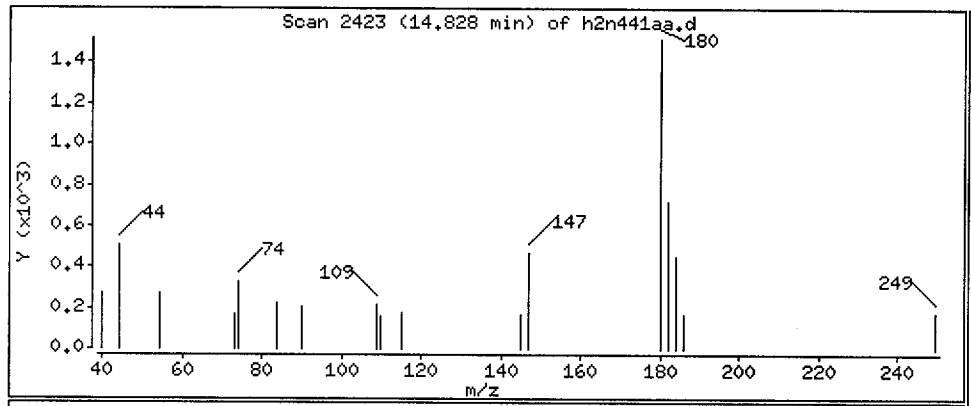
Operator: 22980

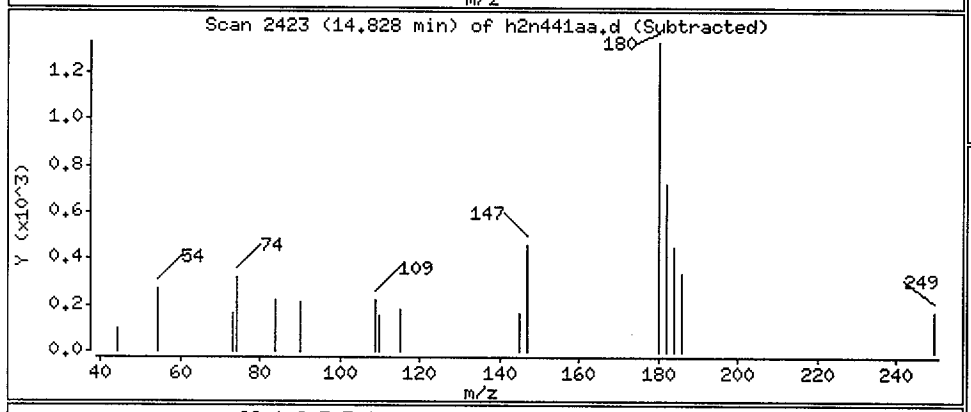
Column phase: J+W 624

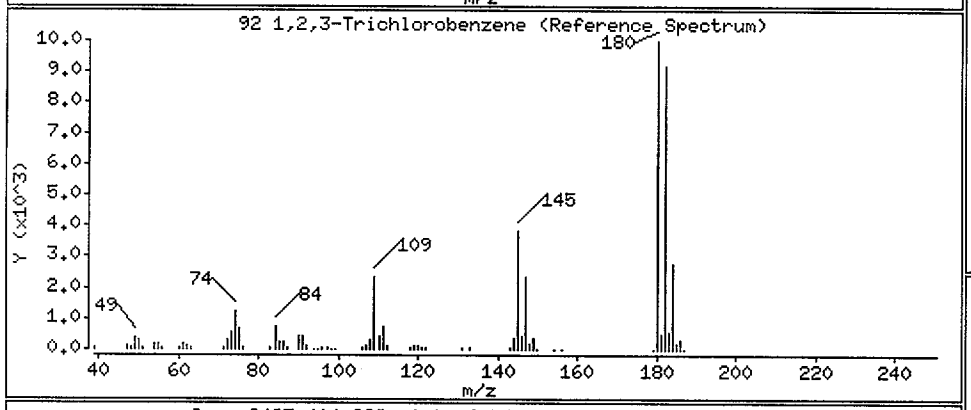
Column diameter: 0.18

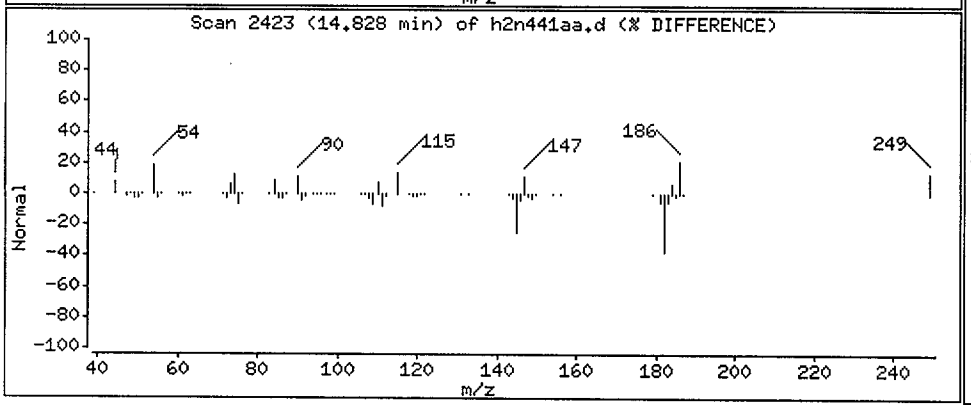
92 1,2,3-Trichlorobenzene

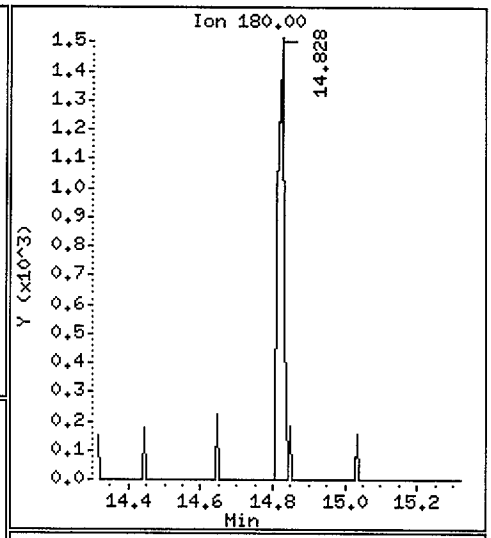
Concentration: 0.0038922 ug

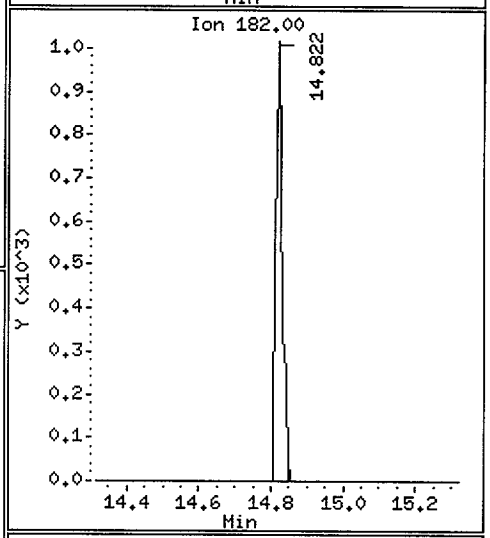


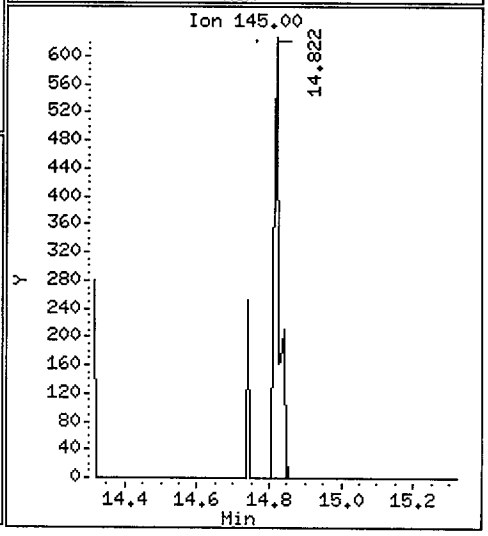












Data File: /var/chem/gcms/mz.i/Z040706.b/h2n441aa.d
Report Date: 14-Apr-2006 15:04

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040706.b/h2n441aa.d
Lab Smp Id: H2N441AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 07-APR-2006 09:47
Operator : 22980 Inst ID: mz.i
Smp Info : H2N441AA,1,3,,BLANK
Misc Info : Z040706,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 14-Apr-2006 15:02 wilesd Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.672	935337	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
0.909	927411	9.91526049	0.24788	3	NIST05.l	81	1

ATR

Tpw 4/14/06

Data File: /var/chem/gcms/mz.i/Z040706.b/h2n441aa.d

Date : 07-APR-2006 09:47

Client ID: INTRA-LAB BLANK

Instrument: mz.i

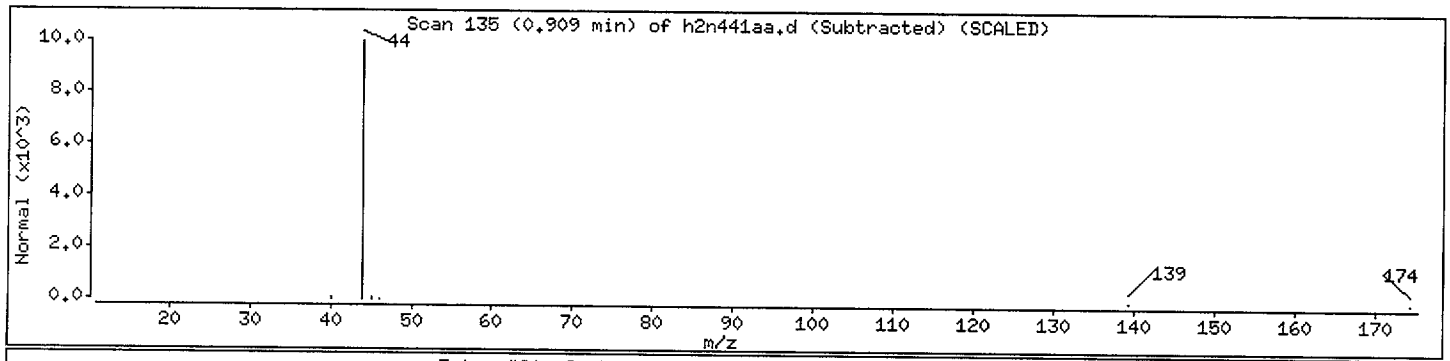
Sample Info: H2N441AA,1,3,,BLANK

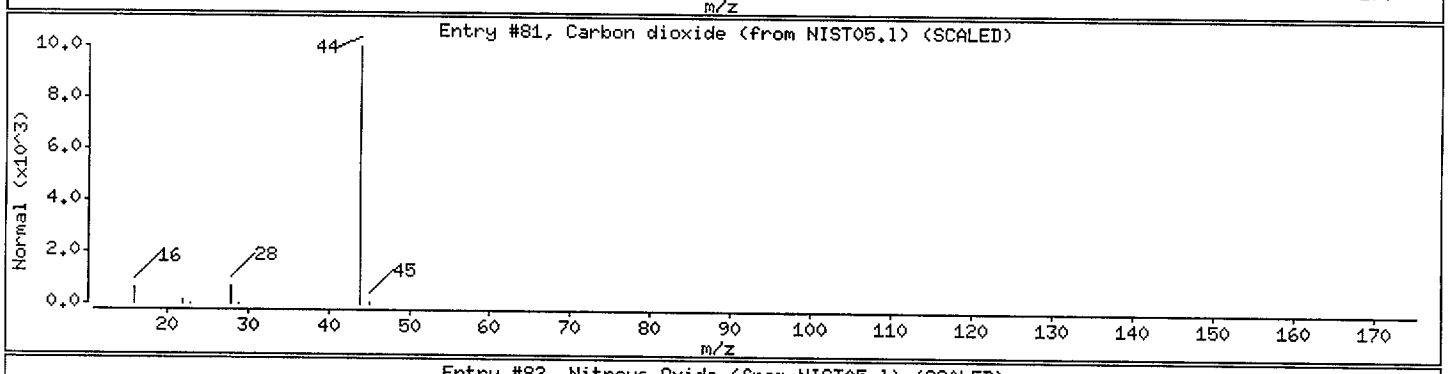
Operator: 22980

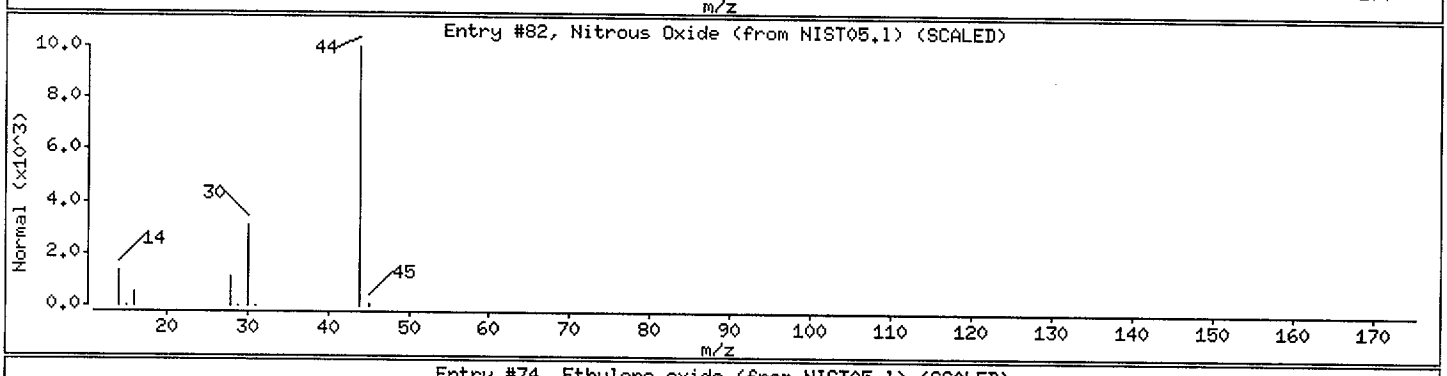
Column phase: J+W 624

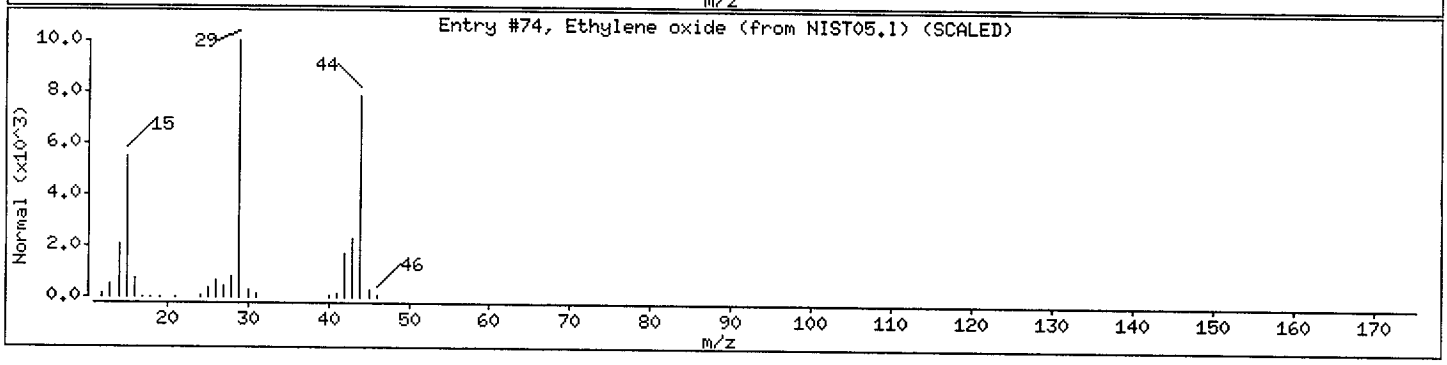
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	81	3	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44









LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	50	(30 - 180)			SW846 VOST
	63	(30 - 180)	23	(0-25)	SW846 VOST
Acrylonitrile	71	(30 - 130)			SW846 VOST
	86	(30 - 130)	18	(0-30)	SW846 VOST
Benzene	**99**	**(69 - 130)**			**SW846 VOST**
	99	**(69 - 130)**	**0.26**	**(0-25)**	**SW846 VOST**
Bromobenzene	90	(50 - 117)			SW846 VOST
	99	(50 - 117)	9.8	(0-25)	SW846 VOST
Bromochloromethane	102	(52 - 125)			SW846 VOST
	102	(52 - 125)	0.010	(0-25)	SW846 VOST
Bromodichloromethane	101	(51 - 129)			SW846 VOST
	109	(51 - 129)	7.7	(0-25)	SW846 VOST
Bromoform	101	(40 - 111)			SW846 VOST
	109	(40 - 111)	7.6	(0-25)	SW846 VOST
Bromomethane	139	(30 - 170)			SW846 VOST
	129	(30 - 170)	7.9	(0-25)	SW846 VOST
2-Butanone	60	(30 - 150)			SW846 VOST
	81 p	(30 - 150)	30	(0-25)	SW846 VOST
n-Butylbenzene	97	(50 - 140)			SW846 VOST
	95	(50 - 140)	2.1	(0-25)	SW846 VOST
sec-Butylbenzene	96	(59 - 136)			SW846 VOST
	93	(59 - 136)	3.4	(0-25)	SW846 VOST
tert-Butylbenzene	95	(59 - 127)			SW846 VOST
	92	(59 - 127)	3.1	(0-25)	SW846 VOST
Carbon disulfide	112	(58 - 150)			SW846 VOST
	110	(58 - 150)	1.6	(0-25)	SW846 VOST
Carbon tetrachloride	104	(61 - 150)			SW846 VOST
	102	(61 - 150)	2.3	(0-25)	SW846 VOST
Chlorobenzene	**96**	**(70 - 116)**			**SW846 VOST**
	98	**(70 - 116)**	**2.3**	**(0-25)**	**SW846 VOST**
Chlorodibromomethane	83	(50 - 116)			SW846 VOST
	95	(50 - 116)	12	(0-25)	SW846 VOST
Chloroethane	128	(30 - 150)			SW846 VOST
	129	(30 - 150)	0.41	(0-25)	SW846 VOST
Chloroform	102	(60 - 132)			SW846 VOST
	106	(60 - 132)	3.6	(0-25)	SW846 VOST
Chloromethane	171 a	(30 - 170)			SW846 VOST
	162	(30 - 170)	5.1	(0-25)	SW846 VOST
2-Chlorotoluene	88	(50 - 122)			SW846 VOST
	89	(50 - 122)	0.53	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	92	(50 - 119)			SW846 VOST
	92	(50 - 119)	0.36	(0-25)	SW846 VOST
1,2-Dibromo-3-chloro-propane	51	(30 - 110)			SW846 VOST
	67 p	(30 - 110)	27	(0-25)	SW846 VOST
1,2-Dibromoethane	82	(50 - 111)			SW846 VOST
	90	(50 - 111)	9.3	(0-25)	SW846 VOST
Dibromomethane	95	(50 - 118)			SW846 VOST
	100	(50 - 118)	5.0	(0-25)	SW846 VOST
1,2-Dichlorobenzene	83	(50 - 108)			SW846 VOST
	92	(50 - 108)	11	(0-25)	SW846 VOST
1,3-Dichlorobenzene	88	(50 - 113)			SW846 VOST
	91	(50 - 113)	4.1	(0-25)	SW846 VOST
1,4-Dichlorobenzene	86	(50 - 111)			SW846 VOST
	92	(50 - 111)	6.8	(0-25)	SW846 VOST
Dichlorodifluoromethane	103	(30 - 150)			SW846 VOST
	100	(30 - 150)	3.6	(0-25)	SW846 VOST
1,1-Dichloroethane	104	(64 - 134)			SW846 VOST
	106	(64 - 134)	1.4	(0-25)	SW846 VOST
1,2-Dichloroethane	101	(50 - 121)			SW846 VOST
	107	(50 - 121)	6.1	(0-25)	SW846 VOST
cis-1,2-Dichloroethene	99	(60 - 131)			SW846 VOST
	103	(60 - 131)	3.0	(0-25)	SW846 VOST
trans-1,2-Dichloroethene	105	(68 - 140)			SW846 VOST
	102	(68 - 140)	3.0	(0-25)	SW846 VOST
1,1-Dichloroethene	**122**	**(63 - 150)**			**SW846 VOST**
	120	**(63 - 150)**	**1.3**	**(0-25)**	**SW846 VOST**
1,2-Dichloropropane	103	(56 - 124)			SW846 VOST
	108	(56 - 124)	4.2	(0-25)	SW846 VOST
1,3-Dichloropropane	79	(50 - 113)			SW846 VOST
	89	(50 - 113)	11	(0-25)	SW846 VOST
2,2-Dichloropropane	96	(66 - 150)			SW846 VOST
	97	(66 - 150)	1.2	(0-25)	SW846 VOST
cis-1,3-Dichloropropene	97	(50 - 128)			SW846 VOST
	105	(50 - 128)	8.1	(0-25)	SW846 VOST
trans-1,3-Dichloropropene	76	(50 - 116)			SW846 VOST
	86	(50 - 116)	11	(0-25)	SW846 VOST
1,1-Dichloropropene	110	(75 - 149)			SW846 VOST
	105	(75 - 149)	4.8	(0-25)	SW846 VOST
Ethylbenzene	98	(66 - 129)			SW846 VOST
	101	(66 - 129)	2.2	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	115	(50 - 150)			SW846 VOST
	112	(50 - 150)	2.4	(0-25)	SW846 VOST
2-Hexanone	78	(30 - 133)			SW846 VOST
	100	(30 - 133)	24	(0-25)	SW846 VOST
Iodomethane	129	(50 - 150)			SW846 VOST
	123	(50 - 150)	4.6	(0-25)	SW846 VOST
Isopropylbenzene	99	(62 - 137)			SW846 VOST
	99	(62 - 137)	0.63	(0-25)	SW846 VOST
p-Isopropyltoluene	97	(57 - 131)			SW846 VOST
	94	(57 - 131)	2.8	(0-25)	SW846 VOST
Methylene chloride	98	(50 - 149)			SW846 VOST
	101	(50 - 149)	3.3	(0-25)	SW846 VOST
4-Methyl-2-pentanone	93	(30 - 120)			SW846 VOST
	114	(30 - 120)	21	(0-25)	SW846 VOST
Naphthalene	62	(30 - 120)			SW846 VOST
	78	(30 - 120)	22	(0-25)	SW846 VOST
n-Propylbenzene	94	(56 - 136)			SW846 VOST
	91	(56 - 136)	3.5	(0-25)	SW846 VOST
Styrene	91	(50 - 122)			SW846 VOST
	96	(50 - 122)	5.6	(0-25)	SW846 VOST
1,1,1,2-Tetrachloroethane	86	(50 - 115)			SW846 VOST
	93	(50 - 115)	7.9	(0-25)	SW846 VOST
1,1,2,2-Tetrachloroethane	81	(30 - 110)			SW846 VOST
	94	(30 - 110)	15	(0-25)	SW846 VOST
Tetrachloroethene	102	(60 - 142)			SW846 VOST
	98	(60 - 142)	3.6	(0-25)	SW846 VOST
Toluene	**94**	**(64 - 128)**			**SW846 VOST**
	97	**(64 - 128)**	**2.3**	**(0-25)**	**SW846 VOST**
1,2,3-Trichlorobenzene	82	(30 - 106)			SW846 VOST
	98	(30 - 106)	17	(0-25)	SW846 VOST
1,2,4-Trichloro-benzene	85	(30 - 116)			SW846 VOST
	101	(30 - 116)	17	(0-25)	SW846 VOST
1,1,1-Trichloroethane	110	(64 - 150)			SW846 VOST
	111	(64 - 150)	1.3	(0-25)	SW846 VOST
1,1,2-Trichloroethane	89	(50 - 112)			SW846 VOST
	90	(50 - 112)	1.2	(0-25)	SW846 VOST
Trichloroethene	**113**	**(72 - 150)**			**SW846 VOST**
	112	**(72 - 150)**	**0.48**	**(0-25)**	**SW846 VOST**
Trichlorofluoromethane	130	(30 - 150)			SW846 VOST
	123	(30 - 150)	5.1	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,3-Trichloropropane	75	(30 - 110)			SW846 VOST
	78	(30 - 110)	4.4	(0-25)	SW846 VOST
1,2,4-Trimethylbenzene	91	(50 - 125)			SW846 VOST
	91	(50 - 125)	0.40	(0-25)	SW846 VOST
1,3,5-Trimethylbenzene	94	(53 - 130)			SW846 VOST
	93	(53 - 130)	0.84	(0-25)	SW846 VOST
Vinyl chloride	117	(61 - 150)			SW846 VOST
	124	(61 - 150)	5.4	(0-25)	SW846 VOST
m-Xylene & p-Xylene	99	(62 - 131)			SW846 VOST
	102	(62 - 131)	2.8	(0-25)	SW846 VOST
o-Xylene	96	(56 - 121)			SW846 VOST
	100	(56 - 121)	4.3	(0-25)	SW846 VOST
Xylenes (total)	98	(60 - 127)			SW846 VOST
	101	(60 - 127)	3.3	(0-25)	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(50 - 134)
	109	(50 - 134)
1,2-Dichloroethane-d4	96	(50 - 134)
	100	(50 - 134)
Toluene-d8	97	(57 - 127)
	96	(57 - 127)
Bromofluorobenzene	84	(50 - 125)
	84	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	1.00	0.501	ug	50		SW846 VOST
	1.00	0.630	ug	63	23	SW846 VOST
Acrylonitrile	5.00	3.56	ug	71		SW846 VOST
	5.00	4.28	ug	86	18	SW846 VOST
Benzene	**0.250**	**0.248**	**ug**	**99**		**SW846 VOST**
	0.250	**0.248**	**ug**	**99**	**0.26**	**SW846 VOST**
Bromobenzene	0.250	0.224	ug	90		SW846 VOST
	0.250	0.247	ug	99	9.8	SW846 VOST
Bromochloromethane	0.250	0.254	ug	102		SW846 VOST
	0.250	0.254	ug	102	0.010	SW846 VOST
Bromodichloromethane	0.250	0.253	ug	101		SW846 VOST
	0.250	0.274	ug	109	7.7	SW846 VOST
Bromoform	0.250	0.251	ug	101		SW846 VOST
	0.250	0.271	ug	109	7.6	SW846 VOST
Bromomethane	0.250	0.348	ug	139		SW846 VOST
	0.250	0.321	ug	129	7.9	SW846 VOST
2-Butanone	1.00	0.597	ug	60		SW846 VOST
	1.00	0.810 p	ug	81	30	SW846 VOST
n-Butylbenzene	0.250	0.243	ug	97		SW846 VOST
	0.250	0.238	ug	95	2.1	SW846 VOST
sec-Butylbenzene	0.250	0.240	ug	96		SW846 VOST
	0.250	0.232	ug	93	3.4	SW846 VOST
tert-Butylbenzene	0.250	0.238	ug	95		SW846 VOST
	0.250	0.231	ug	92	3.1	SW846 VOST
Carbon disulfide	0.250	0.280	ug	112		SW846 VOST
	0.250	0.276	ug	110	1.6	SW846 VOST
Carbon tetrachloride	0.250	0.260	ug	104		SW846 VOST
	0.250	0.254	ug	102	2.3	SW846 VOST
Chlorobenzene	**0.250**	**0.240**	**ug**	**96**		**SW846 VOST**
	0.250	**0.246**	**ug**	**98**	**2.3**	**SW846 VOST**
Chlorodibromomethane	0.250	0.209	ug	83		SW846 VOST
	0.250	0.237	ug	95	12	SW846 VOST
Chloroethane	0.250	0.320	ug	128		SW846 VOST
	0.250	0.322	ug	129	0.41	SW846 VOST
Chloroform	0.250	0.255	ug	102		SW846 VOST
	0.250	0.265	ug	106	3.6	SW846 VOST
Chloromethane	0.250	0.426 a	ug	171		SW846 VOST
	0.250	0.405	ug	162	5.1	SW846 VOST
2-Chlorotoluene	0.250	0.221	ug	88		SW846 VOST
	0.250	0.222	ug	89	0.53	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorotoluene	0.250	0.229	ug	92		SW846 VOST
	0.250	0.230	ug	92	0.36	SW846 VOST
1,2-Dibromo-3-chloro-propane	0.250	0.127	ug	51		SW846 VOST
	0.250	0.167 p	ug	67	27	SW846 VOST
1,2-Dibromoethane	0.250	0.205	ug	82		SW846 VOST
	0.250	0.225	ug	90	9.3	SW846 VOST
Dibromomethane	0.250	0.237	ug	95		SW846 VOST
	0.250	0.249	ug	100	5.0	SW846 VOST
1,2-Dichlorobenzene	0.250	0.207	ug	83		SW846 VOST
	0.250	0.231	ug	92	11	SW846 VOST
1,3-Dichlorobenzene	0.250	0.219	ug	88		SW846 VOST
	0.250	0.228	ug	91	4.1	SW846 VOST
1,4-Dichlorobenzene	0.250	0.215	ug	86		SW846 VOST
	0.250	0.231	ug	92	6.8	SW846 VOST
Dichlorodifluoromethane	0.250	0.259	ug	103		SW846 VOST
	0.250	0.249	ug	100	3.6	SW846 VOST
1,1-Dichloroethane	0.250	0.261	ug	104		SW846 VOST
	0.250	0.264	ug	106	1.4	SW846 VOST
1,2-Dichloroethane	0.250	0.252	ug	101		SW846 VOST
	0.250	0.268	ug	107	6.1	SW846 VOST
cis-1,2-Dichloroethene	0.250	0.249	ug	99		SW846 VOST
	0.250	0.256	ug	103	3.0	SW846 VOST
trans-1,2-Dichloroethene	0.250	0.262	ug	105		SW846 VOST
	0.250	0.254	ug	102	3.0	SW846 VOST
1,1-Dichloroethene	**0.250**	**0.304**	**ug**	**122**		**SW846 VOST**
	0.250	**0.300**	**ug**	**120**	**1.3**	**SW846 VOST**
1,2-Dichloropropane	0.250	0.258	ug	103		SW846 VOST
	0.250	0.269	ug	108	4.2	SW846 VOST
1,3-Dichloropropane	0.250	0.198	ug	79		SW846 VOST
	0.250	0.222	ug	89	11	SW846 VOST
2,2-Dichloropropane	0.250	0.239	ug	96		SW846 VOST
	0.250	0.242	ug	97	1.2	SW846 VOST
cis-1,3-Dichloropropene	0.250	0.243	ug	97		SW846 VOST
	0.250	0.263	ug	105	8.1	SW846 VOST
trans-1,3-Dichloropropene	0.250	0.191	ug	76		SW846 VOST
	0.250	0.214	ug	86	11	SW846 VOST
1,1-Dichloropropene	0.250	0.275	ug	110		SW846 VOST
	0.250	0.262	ug	105	4.8	SW846 VOST
Ethylbenzene	0.250	0.246	ug	98		SW846 VOST
	0.250	0.252	ug	101	2.2	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorobutadiene	0.250	0.287	ug	115		SW846 VOST
	0.250	0.281	ug	112	2.4	SW846 VOST
2-Hexanone	1.00	0.783	ug	78		SW846 VOST
	1.00	0.998	ug	100	24	SW846 VOST
Iodomethane	0.250	0.322	ug	129		SW846 VOST
	0.250	0.307	ug	123	4.6	SW846 VOST
Isopropylbenzene	0.250	0.249	ug	99		SW846 VOST
	0.250	0.247	ug	99	0.63	SW846 VOST
p-Isopropyltoluene	0.250	0.243	ug	97		SW846 VOST
	0.250	0.236	ug	94	2.8	SW846 VOST
Methylene chloride	0.250	0.244	ug	98		SW846 VOST
	0.250	0.253	ug	101	3.3	SW846 VOST
4-Methyl-2-pentanone	1.00	0.928	ug	93		SW846 VOST
	1.00	1.14	ug	114	21	SW846 VOST
Naphthalene	0.250	0.156	ug	62		SW846 VOST
	0.250	0.195	ug	78	22	SW846 VOST
n-Propylbenzene	0.250	0.236	ug	94		SW846 VOST
	0.250	0.228	ug	91	3.5	SW846 VOST
Styrene	0.250	0.228	ug	91		SW846 VOST
	0.250	0.241	ug	96	5.6	SW846 VOST
1,1,1,2-Tetrachloroethane	0.250	0.215	ug	86		SW846 VOST
	0.250	0.232	ug	93	7.9	SW846 VOST
1,1,2,2-Tetrachloroethane	0.250	0.203	ug	81		SW846 VOST
	0.250	0.236	ug	94	15	SW846 VOST
Tetrachloroethene	0.250	0.254	ug	102		SW846 VOST
	0.250	0.245	ug	98	3.6	SW846 VOST
Toluene	**0.250**	**0.236**	**ug**	**94**		**SW846 VOST**
	0.250	**0.242**	**ug**	**97**	**2.3**	**SW846 VOST**
1,2,3-Trichlorobenzene	0.250	0.205	ug	82		SW846 VOST
	0.250	0.244	ug	98	17	SW846 VOST
1,2,4-Trichloro-benzene	0.250	0.213	ug	85		SW846 VOST
	0.250	0.254	ug	101	17	SW846 VOST
1,1,1-Trichloroethane	0.250	0.274	ug	110		SW846 VOST
	0.250	0.278	ug	111	1.3	SW846 VOST
1,1,2-Trichloroethane	0.250	0.223	ug	89		SW846 VOST
	0.250	0.225	ug	90	1.2	SW846 VOST
Trichloroethene	**0.250**	**0.282**	**ug**	**113**		**SW846 VOST**
	0.250	**0.281**	**ug**	**112**	**0.48**	**SW846 VOST**
Trichlorofluoromethane	0.250	0.325	ug	130		SW846 VOST
	0.250	0.309	ug	123	5.1	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2N441AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D060000-033 H2N441AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2,3-Trichloropropane	0.250	0.187	ug	75		SW846 VOST
	0.250	0.195	ug	78	4.4	SW846 VOST
1,2,4-Trimethylbenzene	0.250	0.227	ug	91		SW846 VOST
	0.250	0.228	ug	91	0.40	SW846 VOST
1,3,5-Trimethylbenzene	0.250	0.235	ug	94		SW846 VOST
	0.250	0.233	ug	93	0.84	SW846 VOST
Vinyl chloride	0.250	0.293	ug	117		SW846 VOST
	0.250	0.309	ug	124	5.4	SW846 VOST
m-Xylene & p-Xylene	0.500	0.496	ug	99		SW846 VOST
	0.500	0.510	ug	102	2.8	SW846 VOST
o-Xylene	0.250	0.239	ug	96		SW846 VOST
	0.250	0.249	ug	100	4.3	SW846 VOST
Xylenes (total)	0.750	0.735	ug	98		SW846 VOST
	0.750	0.760	ug	101	3.3	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(50 - 134)
	109	(50 - 134)
1,2-Dichloroethane-d4	96	(50 - 134)
	100	(50 - 134)
Toluene-d8	97	(57 - 127)
	96	(57 - 127)
Bromofluorobenzene	84	(50 - 125)
	84	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ac.d
Report Date: 07-Apr-2006 08:38

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2n441ac.d
Lab Smp Id: H2N441AC
Inj Date : 07-APR-2006 08:21
Operator : 22980
Smp Info : H2N441AC,1,3,,LCS
Misc Info : Z040706,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 07:52 chemist
Cal Date : 24-MAR-2006 13:51
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: qmidhp01

Client Smp ID: INTRA-LAB CHECK
Inst ID: mz.i
Quant Type: ISTD
Cal File: icvzc248.d
QC Sample: METHOD SPIKE
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/7/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	5.673	5.676	(1.000)	889708	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.937	(1.000)	180447	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.492	(1.000)	228108	10.0000	
$ 4 Dibromofluoromethane	113	4.828	4.831	(0.851)	153163	10.7435	0.26859
$ 5 1,2-Dichloroethane-d4	65	5.235	5.238	(0.923)	118753	9.63272	0.24082
$ 6 Toluene-d8	98	7.462	7.465	(0.835)	769740	9.70847	0.24271
$ 7 4-Bromofluorobenzene	95	10.127	10.129	(0.881)	193948	8.43076	0.21077
M 8 1,2-Dichloroethene (total)	96				479873	20.4240	0.51060
M 9 Xylene (total)	106				1263145	29.4065	0.73516
10 Dichlorodifluoromethane	85	1.014	1.016	(0.179)	224631	10.3433	0.25858
11 Chloromethane (spcc)	50	1.123	1.126	(0.198)	878077	17.0592	0.42648(R)
12 Vinyl Chloride (ccc)	62	1.196	1.199	(0.211)	410281	11.7082	0.29270
13 *1,3-Butadiene	39	1.220	1.223	(0.215)	393653	12.4572	0.31143
15 Bromomethane	94	1.415	1.418	(0.249)	124128	13.9123	0.34781(R)
16 Chloroethane	64	1.482	1.485	(0.261)	212655	12.8159	0.32040
17 *Vinyl Bromide	106	1.616	1.618	(0.285)	163019	10.9971	0.27493

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ac.d
Report Date: 07-Apr-2006 08:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
18 Trichlorofluoromethane	101	1.671	1.673	(0.294)	353239	12.9896	0.32474
19 *2-Chloropropane	43	1.956	1.953	(0.345)	645017	10.9590	0.27397
20 1,1-Dichloroethene (ccc)	96	2.066	2.069	(0.364)	235514	12.1796	0.30449
21 *Freon 113	151	2.090	2.087	(0.368)	162262	10.7787	0.26947
22 Acetone	43	2.127	2.123	(0.375)	51184	20.0592	0.50148(R)
23 *Iodomethane	142	2.182	2.184	(0.385)	286264	12.8766	0.32191
24 Carbon Disulfide	76	2.236	2.239	(0.394)	764324	11.1977	0.27994
26 *Acetonitrile	40	2.370	2.367	(0.418)	23933	60.3819	1.5095
27 Methylene Chloride	84	2.510	2.513	(0.442)	145446	9.77471	0.24437
29 *Acrylonitrile	53	2.760	2.768	(0.486)	472755	142.296	3.5574
30 trans-1,2-Dichloroethene	96	2.796	2.799	(0.493)	255787	10.4787	0.26197
31 *MTBE	73	2.820	2.829	(0.497)	182173	8.50832	0.21271
32 *Hexane	57	3.143	3.145	(0.554)	1586712	25.3704	0.63426
33 1,1-Dichloroethane (spcc)	63	3.277	3.285	(0.578)	588025	10.4217	0.26054
34 *Vinyl Acetate	86	3.398	3.407	(0.599)	22113	18.6427	0.46607
35 2,2-Dichloropropane	77	4.104	4.107	(0.723)	274174	9.56396	0.23910
36 cis 1,2-Dichloroethene	96	4.116	4.125	(0.725)	224085	9.94528	0.24863
37 2-Butanone	43	4.183	4.186	(0.737)	80563	23.8975	0.59744
38 Bromochloromethane	128	4.457	4.466	(0.786)	62889	10.1506	0.25377
39 *THF	42	4.536	4.532	(0.799)	54339	25.7414	0.64353
40 Chloroform (ccc)	83	4.615	4.618	(0.813)	328323	10.2133	0.25533
41 1,1,1-Trichloroethane	97	4.816	4.818	(0.849)	311773	10.9575	0.27394
42 Carbon Tetrachloride	117	5.041	5.043	(0.888)	239395	10.4160	0.26040
43 1,1-Dichloropropene	75	5.053	5.056	(0.891)	335161	10.9930	0.27482
44 Benzene	78	5.296	5.305	(0.934)	872021	9.93879	0.24847
45 1,2-Dichloroethane	62	5.333	5.335	(0.940)	187164	10.0738	0.25184
46 Trichloroethene	130	6.111	6.114	(1.077)	278346	11.2778	0.28195
47 1,2-Dichloropropane (ccc)	63	6.349	6.351	(1.119)	247633	10.3300	0.25825
48 *Methyl Methacrylate	41	6.580	6.577	(1.160)	81154	10.3192	0.25798
49 Dibromomethane	93	6.476	6.479	(1.142)	47341	9.48328	0.23708
50 Bromodichloromethane	83	6.689	6.692	(1.179)	156528	10.1375	0.25344
51 *2-Chloroethylvinylether	63	7.073	7.069	(1.247)	57982	10.6571	0.26643
52 cis-1,3-Dichloropropene	75	7.188	7.191	(1.267)	189126	9.71614	0.24290
53 4-Methyl-2-pentanone	43	7.383	7.386	(1.301)	288428	37.1226	0.92806
54 Toluene (ccc)	91	7.529	7.532	(0.843)	969994	9.44552	0.23614
55 trans-1,3-Dichloropropene	75	7.791	7.793	(0.872)	114975	7.63013	0.19075
56 *Ethyl Methacrylate	69	7.937	7.939	(0.888)	75015	8.55084	0.21377
57 1,1,2-Trichloroethane	97	7.967	7.964	(0.892)	74202	8.90244	0.22256
58 Tetrachloroethene	164	8.101	8.097	(0.907)	216226	10.1513	0.25378
59 1,3-Dichloropropane	76	8.125	8.128	(0.909)	115940	7.93578	0.19839
60 2-Hexanone	43	8.259	8.256	(0.924)	174862	31.3148	0.78287
61 Chlorodibromomethane	129	8.350	8.353	(0.935)	72003	8.34846	0.20871
62 1,2-Dibromoethane	107	8.441	8.444	(0.945)	61124	8.18915	0.20473
63 Chlorobenzene (spcc)	112	8.965	8.961	(1.003)	550231	9.59970	0.23999
64 1,1,1,2-Tetrachloroethane	131	9.056	9.065	(1.014)	123282	8.58700	0.21467
65 Ethylbenzene (ccc)	106	9.098	9.101	(1.018)	363518	9.84287	0.24607
66 m&p-Xylene	106	9.226	9.229	(1.033)	886449	19.8542	0.49636

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ac.d
Report Date: 07-Apr-2006 08:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
67 o-Xylene	106	9.616	9.612	(1.076)	376695	9.55229	0.23881
68 Styrene	104	9.628	9.630	(1.078)	504358	9.10932	0.22773
69 Bromoform (spcc)	173	9.786	9.782	(1.095)	27831	10.0546	0.25136
70 Isopropylbenzene	105	9.993	9.995	(1.118)	1127804	9.94592	0.24865
71 *cis-1,4-dichloro-2-butene	88	10.060	10.056	(1.126)	8524	6.82620	0.17065
72 Bromobenzene	156	10.260	10.257	(1.148)	150910	8.95496	0.22387
73 1,1,2,2-Tetrachloroethane(sp)	83	10.297	10.300	(1.153)	50460	8.11584	0.20290
74 1,2,3-Trichloropropane	110	10.321	10.324	(0.898)	14666	7.46777	0.18669
75 *trans-1,4-dichloro-2-butene	53	10.352	10.354	(0.900)	19896	7.13530	0.17838
76 n-Propylbenzene	91	10.412	10.415	(0.906)	1304673	9.44931	0.23623
77 2-Chlorotoluene	91	10.479	10.482	(0.912)	645991	8.82217	0.22055
78 1,3,5-Trimethylbenzene	105	10.619	10.622	(0.924)	873493	9.40230	0.23506
79 4-Chlorotoluene	91	10.601	10.604	(0.922)	712255	9.15639	0.22891
80 tert-Butylbenzene	119	10.996	10.999	(0.957)	791651	9.51737	0.23793
81 1,2,4-Trimethylbenzene	105	11.057	11.060	(0.962)	792245	9.07656	0.22691
82 sec-Butylbenzene	105	11.289	11.285	(0.982)	1174657	9.58027	0.23951
83 1,3-Dichlorobenzene	146	11.398	11.395	(0.992)	349438	8.75131	0.21878
84 p-Isopropyltoluene	119	11.508	11.510	(1.001)	1043993	9.70382	0.24260
85 1,4-Dichlorobenzene	146	11.526	11.528	(1.003)	320127	8.61907	0.21548
86 1,2-Dichlorobenzene	146	12.079	12.088	(1.051)	244205	8.28975	0.20724
87 n-Butylbenzene	91	12.152	12.155	(1.057)	933918	9.70549	0.24264
88 1,2-Dibromo-3-chloropropane	157	13.266	13.262	(1.154)	4919	5.06670	0.12667(R)
89 1,2,4-Trichlorobenzene	180	14.300	14.303	(1.244)	152289	8.52952	0.21324
90 Hexachlorobutadiene	225	14.531	14.534	(1.264)	192546	11.4994	0.28748
91 Napthalene	128	14.555	14.552	(1.266)	117000	6.24884	0.15622(R)
92 1,2,3-Trichlorobenzene	180	14.823	14.820	(1.289)	96447	8.20029	0.20501
M 93 *1,4-dichloro-2-butene(total)	53				28421	13.9615	0.34904

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

λ 4/8/06

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ac.d
Report Date: 07-Apr-2006 08:38

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2n441ac.d
Lab Smp Id: H2N441AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,all.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	889708	-6.60
2 Chlorobenzene-d5	164101	82050	328202	180447	9.96
3 1,4 Dichlorobenze	204390	102195	408780	228108	11.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.05
2 Chlorobenzene-d5	8.94	8.44	9.44	8.93	-0.03
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.50	0.03

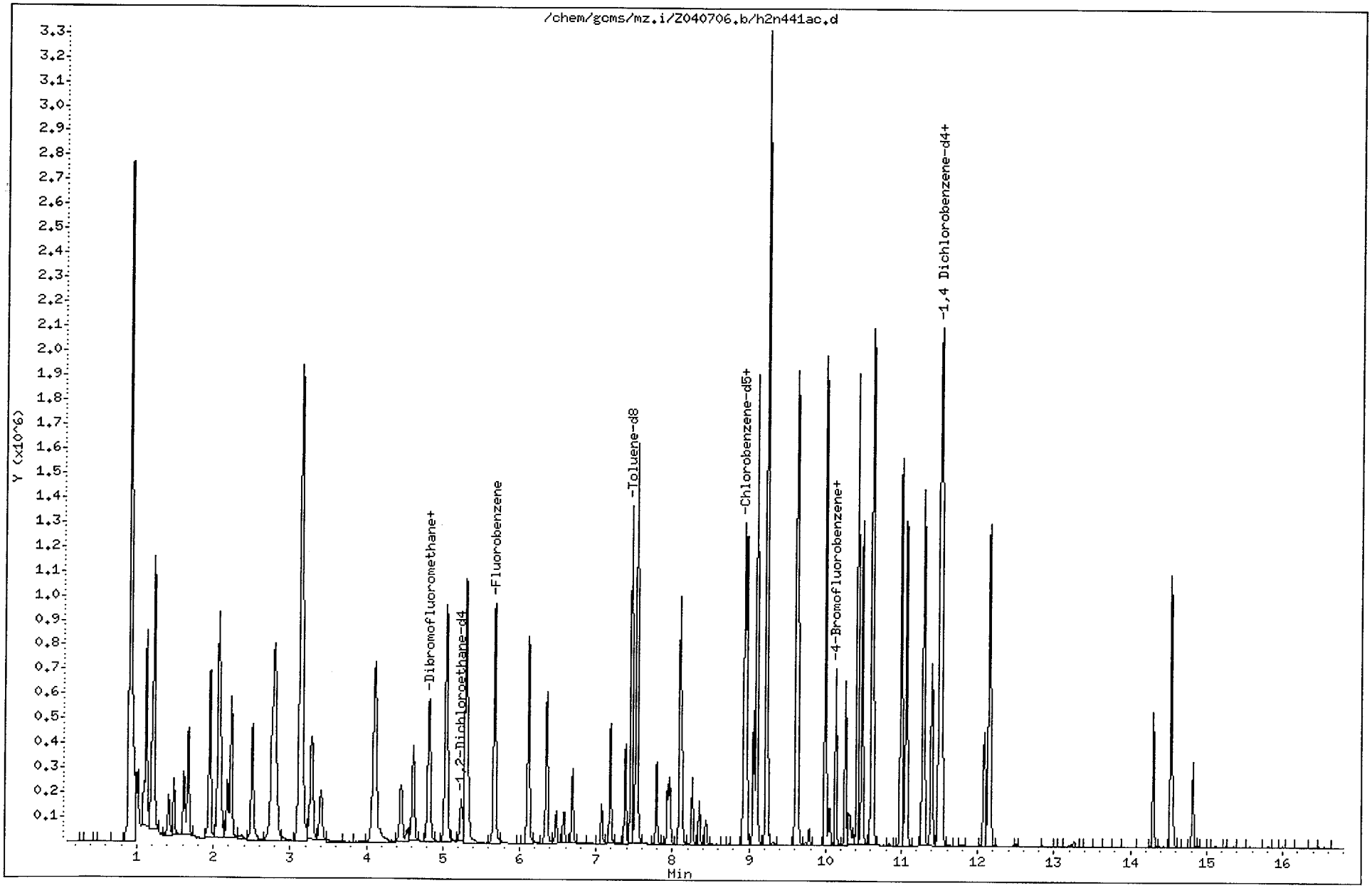
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ac.d
Date : 07-APR-2006 08:21
Client ID: INTRA-LAB CHECK
Sample Info: H2N441AC,1,3,,LCS

Column phase: J+W 624

Instrument: mz.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040706.b/h2n441ad.d
Report Date: 07-Apr-2006 09:05

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040706.b/h2n441ad.d
Lab Smp Id: H2N441AD
Inj Date : 07-APR-2006 08:47
Operator : 22980
Smp Info : H2N441AD,1,3,,LCSD
Misc Info : Z040706,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /chem/gcms/mz.i/Z040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 07:52 chemist
Cal Date : 24-MAR-2006 13:51
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: qmidhp01

Client Smp ID: INTRA-LAB CHECK
Inst ID: mz.i
Quant Type: ISTD
Cal File: icvzc248.d
QC Sample: METHOD SPIKE
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

4/21/06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
*	1 Fluorobenzene	96	5.672	5.676	(1.000)	904744	10.0000	
*	2 Chlorobenzene-d5	119	8.938	8.937	(1.000)	182639	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.494	11.492	(1.000)	241712	10.0000	
$	4 Dibromofluoromethane	113	4.826	4.831	(0.851)	158718	10.9481	0.27370
$	5 1,2-Dichloroethane-d4	65	5.240	5.238	(0.924)	125610	10.0196	0.25049
$	6 Toluene-d8	98	7.460	7.465	(0.835)	771832	9.61802	0.24045
$	7 4-Bromofluorobenzene	95	10.125	10.129	(0.881)	205218	8.41859	0.21046
M	8 1,2-Dichloroethene (total)	96				487400	20.4242	0.51060
M	9 Xylene (total)	106				1320661	30.3885	0.75971
	10 Dichlorodifluoromethane	85	1.012	1.016	(0.178)	220254	9.97318	0.24933
	11 Chloromethane (spcc)	50	1.121	1.126	(0.198)	849821	16.2080	0.40520(R)
	12 Vinyl Chloride (ccc)	62	1.194	1.199	(0.211)	440162	12.3522	0.30880
	13 *1,3-Butadiene	39	1.225	1.223	(0.216)	368570	11.4696	0.28674
	15 Bromomethane	94	1.413	1.418	(0.249)	116030	12.8560	0.32140
	16 Chloroethane	64	1.486	1.485	(0.262)	217143	12.8689	0.32172
	17 *Vinyl Bromide	106	1.614	1.618	(0.285)	181096	12.0135	0.30034

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ad.d
Report Date: 07-Apr-2006 09:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
18 Trichlorofluoromethane	101	1.669	1.673	(0.294)	341376	12.3447	0.30862
19 *2-Chloropropane	43	1.955	1.953	(0.345)	617528	10.3176	0.25794
20 1,1-Dichloroethene (ccc)	96	2.070	2.069	(0.365)	236317	12.0180	0.30045
21 *Freon 113	151	2.088	2.087	(0.368)	171114	11.1779	0.27945
22 Acetone	43	2.125	2.123	(0.375)	62213	25.1868	0.62967(R)
23 *Iodomethane	142	2.180	2.184	(0.384)	277452	12.2973	0.30743
24 Carbon Disulfide	76	2.234	2.239	(0.394)	765093	11.0227	0.27557
26 *Acetonitrile	40	2.374	2.367	(0.419)	35464	87.9891	2.1997
27 Methylene Chloride	84	2.508	2.513	(0.442)	152836	10.1006	0.25252
29 *Acrylonitrile	53	2.764	2.768	(0.487)	577768	171.014	4.2753
30 trans-1,2-Dichloroethene	96	2.800	2.799	(0.494)	252473	10.1710	0.25428
31 *MTBE	73	2.825	2.829	(0.498)	228802	10.5085	0.26271
32 *Hexane	57	3.141	3.145	(0.554)	1604144	25.2229	0.63057
33 1,1-Dichloroethane (spcc)	63	3.281	3.285	(0.578)	606584	10.5719	0.26430
34 *Vinyl Acetate	86	3.403	3.407	(0.600)	24442	20.2631	0.50658
35 2,2-Dichloropropane	77	4.102	4.107	(0.723)	282289	9.68341	0.24208
36 cis 1,2-Dichloroethene	96	4.120	4.125	(0.726)	234927	10.2532	0.25633
37 2-Butanone	43	4.175	4.186	(0.736)	111031	32.3878	0.80970
38 Bromochloromethane	128	4.461	4.466	(0.787)	63961	10.1521	0.25380
39 *THF	42	4.540	4.532	(0.800)	73640	34.3049	0.85762
40 Chloroform (ccc)	83	4.619	4.618	(0.814)	345937	10.5824	0.26456
41 1,1,1-Trichloroethane	97	4.814	4.818	(0.849)	321195	11.1011	0.27753
42 Carbon Tetrachloride	117	5.039	5.043	(0.888)	237637	10.1757	0.25439
43 1,1-Dichloropropene	75	5.051	5.056	(0.891)	324794	10.4759	0.26190
44 Benzene	78	5.301	5.305	(0.935)	884443	9.91284	0.24782
45 1,2-Dichloroethane	62	5.331	5.335	(0.940)	202280	10.7064	0.26766
46 Trichloroethene	130	6.116	6.114	(1.078)	281690	11.2237	0.28059
47 1,2-Dichloropropane (ccc)	63	6.353	6.351	(1.120)	262732	10.7777	0.26944
48 *Methyl Methacrylate	41	6.578	6.577	(1.160)	92684	11.5894	0.28974
49 Dibromomethane	93	6.475	6.479	(1.142)	50611	9.96985	0.24925
50 Bromodichloromethane	83	6.694	6.692	(1.180)	172850	10.9455	0.27364
51 *2-Chloroethylvinylether	63	7.071	7.069	(1.247)	52589	9.50521	0.23763
52 cis-1,3-Dichloropropene	75	7.186	7.191	(1.267)	208508	10.5338	0.26335
53 4-Methyl-2-pentanone	43	7.381	7.386	(1.301)	361118	45.7059	1.1426
54 Toluene (ccc)	91	7.533	7.532	(0.843)	1004400	9.66317	0.24158
55 trans-1,3-Dichloropropene	75	7.789	7.793	(0.871)	131724	8.55425	0.21386
56 *Ethyl Methacrylate	69	7.935	7.939	(0.888)	90440	10.1854	0.25463
57 1,1,2-Trichloroethane	97	7.965	7.964	(0.891)	75993	9.00799	0.22520
58 Tetrachloroethene	164	8.099	8.097	(0.906)	211035	9.78865	0.24472
59 1,3-Dichloropropane	76	8.123	8.128	(0.909)	131412	8.88689	0.22217
60 2-Hexanone	43	8.257	8.256	(0.924)	225671	39.9288	0.99822
61 Chlorodibromomethane	129	8.348	8.353	(0.934)	83584	9.46164	0.23654
62 1,2-Dibromoethane	107	8.440	8.444	(0.944)	67906	8.98860	0.22472
63 Chlorobenzene (spcc)	112	8.963	8.961	(1.003)	569962	9.82460	0.24562
64 1,1,1,2-Tetrachloroethane	131	9.060	9.065	(1.014)	135414	9.29130	0.23228
65 Ethylbenzene (ccc)	106	9.103	9.101	(1.018)	376203	10.0641	0.25160
66 m&p-Xylene	106	9.224	9.229	(1.032)	922745	20.4191	0.51048

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ad.d
Report Date: 07-Apr-2006 09:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
	67 o-Xylene	106	9.614	9.612	(1.076)	397916	9.96932	0.24923
	68 Styrene	104	9.626	9.630	(1.077)	539712	9.63087	0.24077
	69 Bromoform (spcc)	173	9.784	9.782	(1.095)	30728	10.8537	0.27134
	70 Isopropylbenzene	105	9.997	9.995	(1.118)	1134301	9.88318	0.24708
	71 *cis-1,4-dichloro-2-butene	88	10.058	10.056	(1.125)	10290	7.83133	0.19578
	72 Bromobenzene	156	10.259	10.257	(1.148)	168443	9.87541	0.24688
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.295	10.300	(1.152)	59447	9.44655	0.23616
	74 1,2,3-Trichloropropane	110	10.319	10.324	(0.898)	16239	7.80341	0.19508
	75 *trans-1,4-dichloro-2-butene	53	10.350	10.354	(0.900)	25139	8.41594	0.21040
	76 n-Propylbenzene	91	10.411	10.415	(0.906)	1334899	9.12408	0.22810
	77 2-Chlorotoluene	91	10.478	10.482	(0.912)	688183	8.86940	0.22174
	78 1,3,5-Trimethylbenzene	105	10.617	10.622	(0.924)	917831	9.32350	0.23309
	79 4-Chlorotoluene	91	10.605	10.604	(0.923)	757507	9.19004	0.22975
	80 tert-Butylbenzene	119	10.995	10.999	(0.957)	813052	9.22450	0.23061
	81 1,2,4-Trimethylbenzene	105	11.062	11.060	(0.962)	842830	9.11264	0.22782
	82 sec-Butylbenzene	105	11.287	11.285	(0.982)	1203669	9.26437	0.23161
	83 1,3-Dichlorobenzene	146	11.396	11.395	(0.992)	385872	9.11986	0.22800
	84 p-Isopropyltoluene	119	11.506	11.510	(1.001)	1075665	9.43549	0.23589
	85 1,4-Dichlorobenzene	146	11.524	11.528	(1.003)	363295	9.23081	0.23077
	86 1,2-Dichlorobenzene	146	12.084	12.088	(1.051)	288036	9.22734	0.23068
	87 n-Butylbenzene	91	12.151	12.155	(1.057)	969243	9.50568	0.23764
	88 1,2-Dibromo-3-chloropropane	157	13.258	13.262	(1.153)	7169	6.67959	0.16699(R)
	89 1,2,4-Trichlorobenzene	180	14.298	14.303	(1.244)	191937	10.1451	0.25363
	90 Hexachlorobutadiene	225	14.535	14.534	(1.265)	199093	11.2212	0.28053
	91 Napthalene	128	14.554	14.552	(1.266)	154824	7.80355	0.19509
	92 1,2,3-Trichlorobenzene	180	14.821	14.820	(1.290)	121658	9.76166	0.24404
M	93 *1,4-dichloro-2-butene(total)	53				35429	16.2473	0.40618

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

4/7/06

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ad.d
Report Date: 07-Apr-2006 09:05

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2n441ad.d
Lab Smp Id: H2N441AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mz.i/Z040706.b/8260B_LM.m
Misc Info: Z040706,8260B_LM,all.sub

Calibration Date: 07-APR-2006
Calibration Time: 07:35
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	952581	476290	1905162	904744	-5.02
2 Chlorobenzene-d5	164101	82050	328202	182639	11.30
3 1,4 Dichlorobenze	204390	102195	408780	241712	18.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.68	5.18	6.18	5.67	-0.08
2 Chlorobenzene-d5	8.94	8.44	9.44	8.94	0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.01

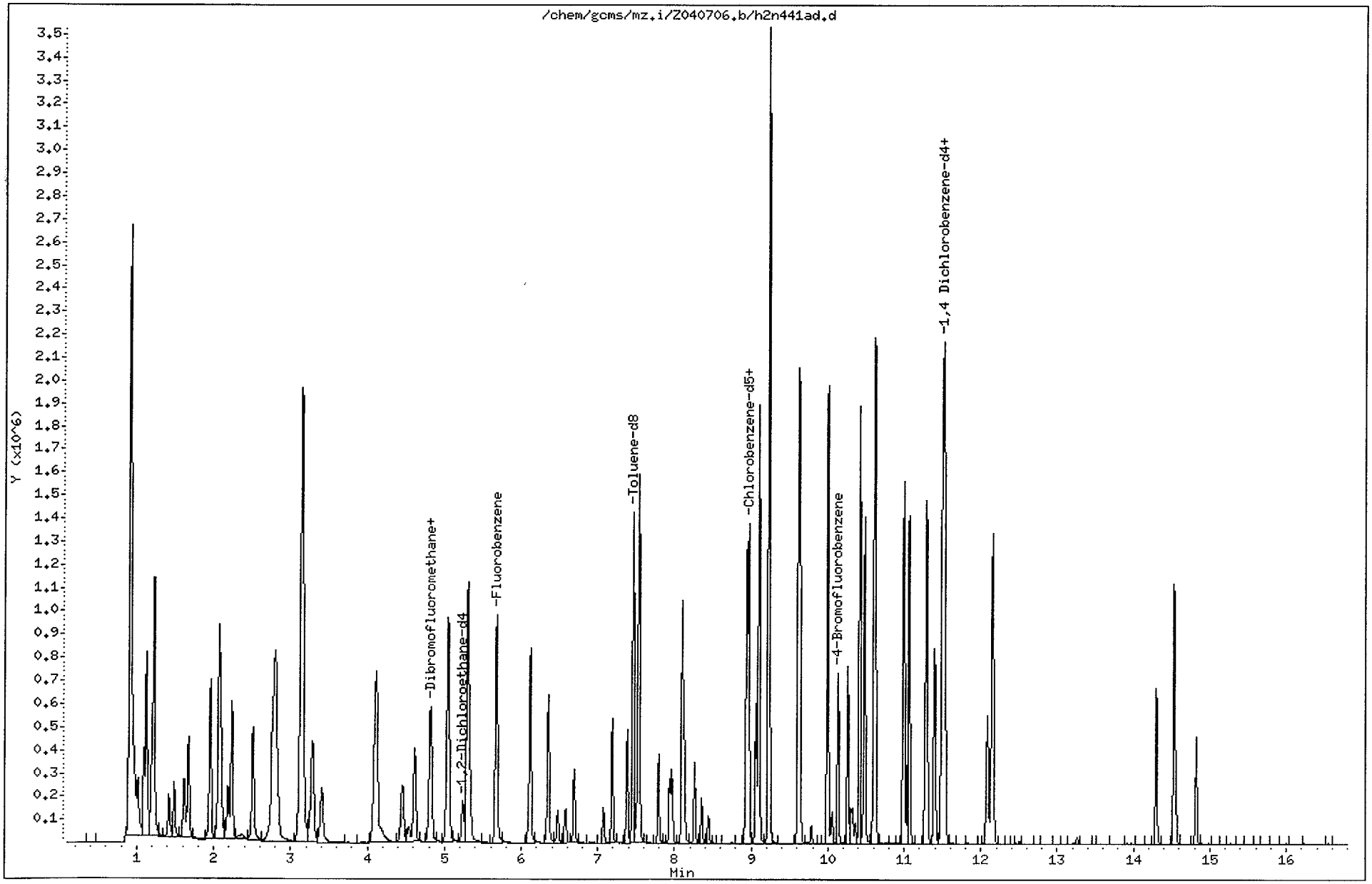
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcms/mz.i/Z040706.b/h2n441ad.d
Date : 07-APR-2006 08:47
Client ID: INTRA-LAB CHECK
Sample Info: H2N441AD,1,3,,LCSD

Instrument: mz.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AA **Matrix.....:** AIR
MB Lot-Sample #: H6D070000-054

Prep Date.....: 04/07/06
Analysis Date..: 04/07/06 **Prep Batch #...:** 6097054
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	0.10	ug	SW846 VOST
Acrylonitrile	ND	0.50	ug	SW846 VOST
Benzene	ND	0.010	ug	SW846 VOST
Bromobenzene	ND	0.010	ug	SW846 VOST
Bromochloromethane	ND	0.025	ug	SW846 VOST
Bromodichloromethane	ND	0.010	ug	SW846 VOST
Bromoform	ND	0.025	ug	SW846 VOST
Bromomethane	ND	0.050	ug	SW846 VOST
2-Butanone	ND	0.10	ug	SW846 VOST
n-Butylbenzene	ND	0.010	ug	SW846 VOST
sec-Butylbenzene	ND	0.010	ug	SW846 VOST
tert-Butylbenzene	ND	0.010	ug	SW846 VOST
Carbon disulfide	ND	0.010	ug	SW846 VOST
Carbon tetrachloride	ND	0.010	ug	SW846 VOST
Chlorobenzene	ND	0.010	ug	SW846 VOST
Chlorodibromomethane	ND	0.025	ug	SW846 VOST
Chloroethane	ND	0.050	ug	SW846 VOST
Chloroform	ND	0.010	ug	SW846 VOST
Chloromethane	ND	0.025	ug	SW846 VOST
2-Chlorotoluene	ND	0.010	ug	SW846 VOST
4-Chlorotoluene	ND	0.010	ug	SW846 VOST
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	SW846 VOST
1,2-Dibromoethane	ND	0.025	ug	SW846 VOST
Dibromomethane	ND	0.025	ug	SW846 VOST
1,2-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,3-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,4-Dichlorobenzene	ND	0.010	ug	SW846 VOST
Dichlorodifluoromethane	ND	0.025	ug	SW846 VOST
1,1-Dichloroethane	ND	0.010	ug	SW846 VOST
1,2-Dichloroethane	ND	0.010	ug	SW846 VOST
cis-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
trans-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
1,1-Dichloroethene	ND	0.010	ug	SW846 VOST
1,2-Dichloropropane	ND	0.010	ug	SW846 VOST
1,3-Dichloropropane	ND	0.010	ug	SW846 VOST
2,2-Dichloropropane	ND	0.010	ug	SW846 VOST
cis-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
trans-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
1,1-Dichloropropene	ND	0.010	ug	SW846 VOST
Ethylbenzene	ND	0.010	ug	SW846 VOST

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	0.025	ug	SW846 VOST
2-Hexanone	ND	0.10	ug	SW846 VOST
Iodomethane	ND	0.050	ug	SW846 VOST
Isopropylbenzene	ND	0.010	ug	SW846 VOST
p-Isopropyltoluene	ND	0.010	ug	SW846 VOST
Methylene chloride	ND	0.025	ug	SW846 VOST
4-Methyl-2-pentanone	ND	0.10	ug	SW846 VOST
Naphthalene	ND	0.025	ug	SW846 VOST
n-Propylbenzene	ND	0.010	ug	SW846 VOST
Styrene	ND	0.010	ug	SW846 VOST
1,1,1,2-Tetrachloroethane	ND	0.010	ug	SW846 VOST
1,1,2,2-Tetrachloroethane	ND	0.025	ug	SW846 VOST
Tetrachloroethene	ND	0.010	ug	SW846 VOST
Tetrahydrofuran	ND	0.10	ug	SW846 VOST
Toluene	ND	0.010	ug	SW846 VOST
1,2,3-Trichlorobenzene	ND	0.025	ug	SW846 VOST
1,2,4-Trichloro-benzene	**0.0030 J**	**0.025**	**ug**	**SW846 VOST**
1,1,1-Trichloroethane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloroethane	ND	0.025	ug	SW846 VOST
Trichloroethene	ND	0.010	ug	SW846 VOST
Trichlorofluoromethane	ND	0.050	ug	SW846 VOST
1,2,3-Trichloropropane	ND	0.025	ug	SW846 VOST
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	SW846 VOST
1,2,4-Trimethylbenzene	ND	0.010	ug	SW846 VOST
1,3,5-Trimethylbenzene	ND	0.010	ug	SW846 VOST
Vinyl acetate	ND	0.050	ug	SW846 VOST
Vinyl chloride	ND	0.010	ug	SW846 VOST
m-Xylene & p-Xylene	ND	0.020	ug	SW846 VOST
o-Xylene	ND	0.010	ug	SW846 VOST
Xylenes (total)	ND	0.030	ug	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	71	(57 - 127)
Bromofluorobenzene	57	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D070000-054 B **Work Order #:** H2RM41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d
Report Date: 07-Apr-2006 11:47

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2rm41aa.d
Lab Smp Id: H2RM41AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 07-APR-2006 11:31
Operator : 22980 Inst ID: mx.i
Smp Info : H2RM41AA,1,3,,,BLK
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 11:23 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.854	4.851	(1.000)	1215358	10.0000	
* 2 Chlorobenzene-d5	119	7.579	7.582	(1.000)	243163	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	263714	10.0000	
$ 4 Dibromofluoromethane	113	4.270	4.273	(0.880)	151181	7.31632	0.18291
$ 5 1,2-Dichloroethane-d4	65	4.550	4.553	(0.937)	117434	7.29091	0.18227
$ 6 Toluene-d8	98	6.253	6.250	(0.825)	841645	7.06950	0.17674
$ 7 4-Bromofluorobenzene	95	8.875	8.872	(0.826)	178855	5.72013	0.14300
21 Acetone	43	2.390	2.381	(0.492)	4085	2.37317	0.059329
36 2-Butanone	43	3.874	3.871	(0.798)	1193	0.44452	~~0.011113~~
38 *THF	42	4.112	4.109	(0.847)	1417	0.86138	0.021534
42 1,1-Dichloropropene	75	4.848	4.437	(0.999)	93483	1.94275	~~0.048569~~
44 1,2-Dichloroethane	62	4.854	4.620	(1.000)	21287	1.02776	~~0.025694~~
52 4-Methyl-2-pentanone	43	6.247	6.147	(1.287)	6132	0.95360	~~0.023840~~
56 1,1,2-Trichloroethane	97	6.259	6.670	(0.826)	76476	6.79712	~~0.16993~~
88 1,2,4-Trichlorobenzene	180	13.675	13.678	(1.273)	1864	0.11887	0.0029718
90 Napthalene	128	13.955	13.946	(1.299)	2756	0.24090	0.0060226
91 1,2,3-Trichlorobenzene	180	14.234	14.232	(1.325)	2369	0.23396	0.0058489

Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d
Report Date: 07-Apr-2006 11:47

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2rm41aa.d
Lab Smp Id: H2RM41AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1215358	5.76
2 Chlorobenzene-d5	214194	107097	428388	243163	13.52
3 1,4 Dichlorobenze	242601	121300	485202	263714	8.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.06
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.04
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.03

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.

Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d
Report Date: 07-Apr-2006 11:47

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: H2RM41AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,focus.sub

Client SDG: H6D070000
Fraction: VOA
Client Smp ID: INTRA-LAB BLANK
Operator: 22980
SampleType: METHOD BLANK
Quant Type: ISTD

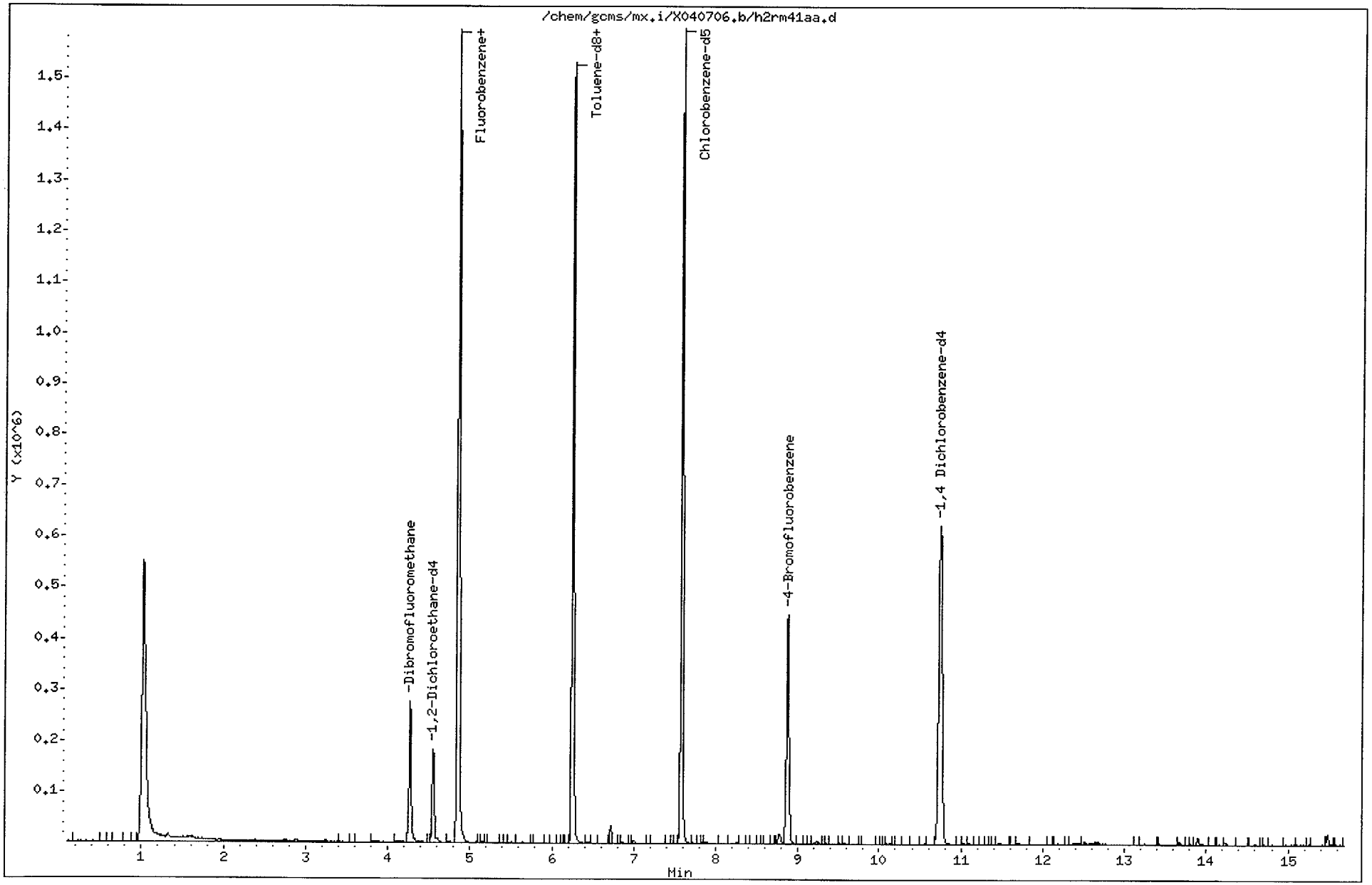
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.18291	73.16	50-150
$ 5 1,2-Dichloroethane	0.25000	0.18227	72.91	50-150
$ 6 Toluene-d8	0.25000	0.17674	70.70	50-150
$ 7 4-Bromofluorobenze	0.25000	0.14300	57.20	50-150

Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d
Date : 07-APR-2006 11:31
Client ID: INTRA-LAB BLANK
Sample Info: H2RM41AA,1,3,,,BLK

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

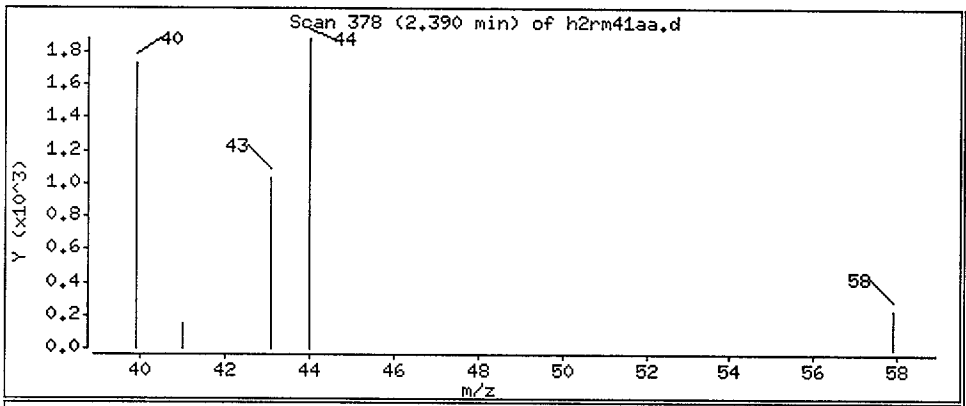
Operator: 22980

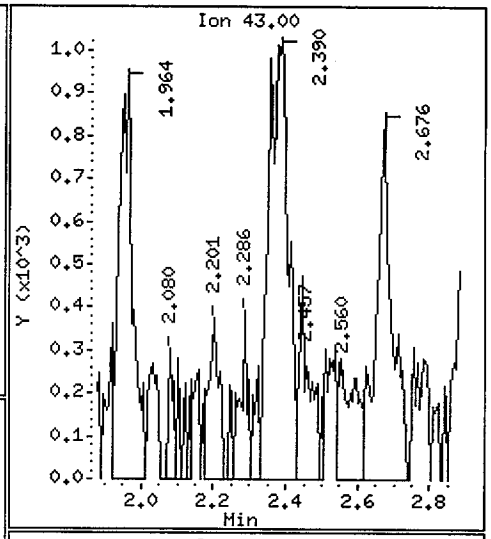
Column phase: J+W 624

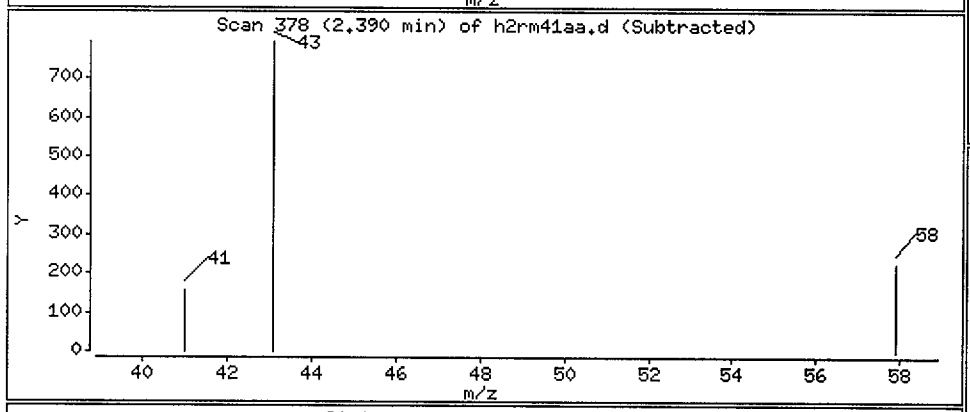
Column diameter: 0.18

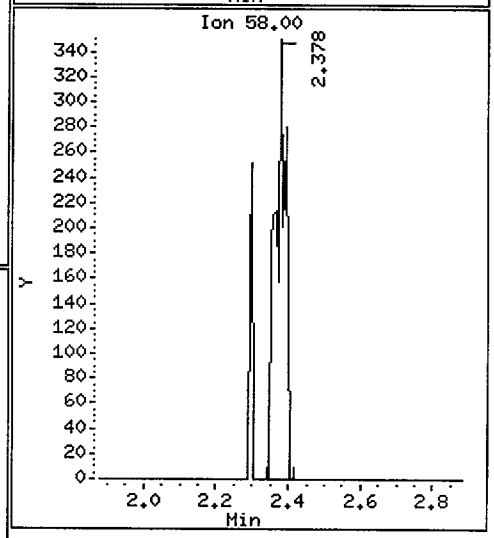
21 Acetone

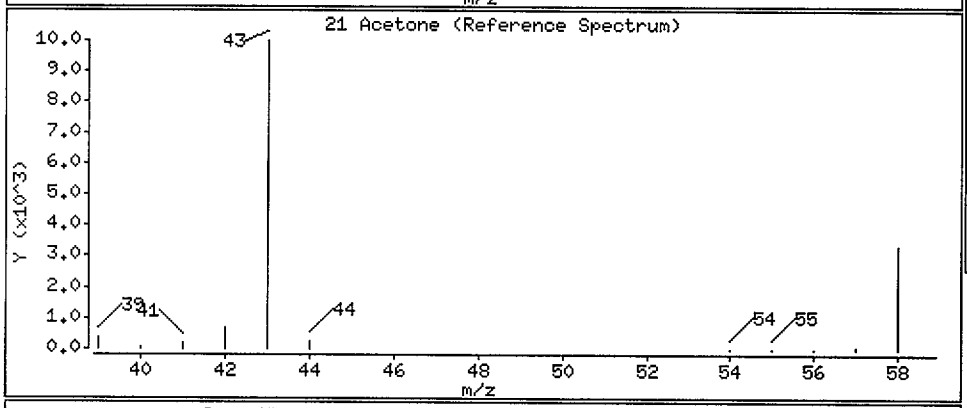
Concentration: 0.059329 ug

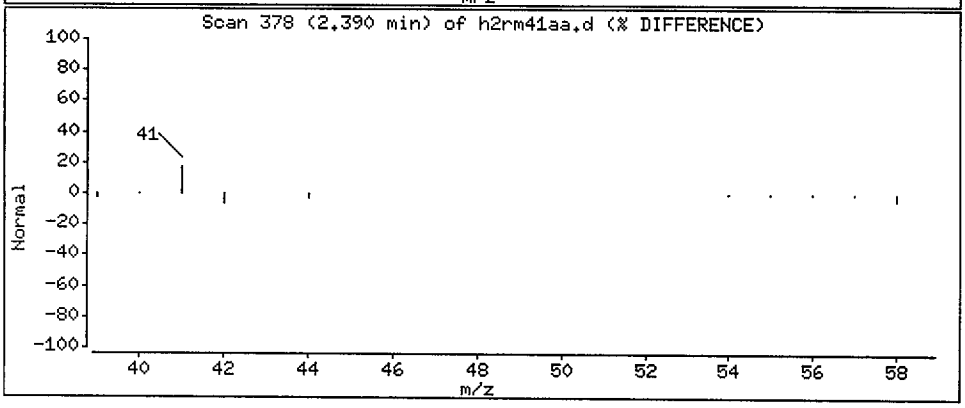












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

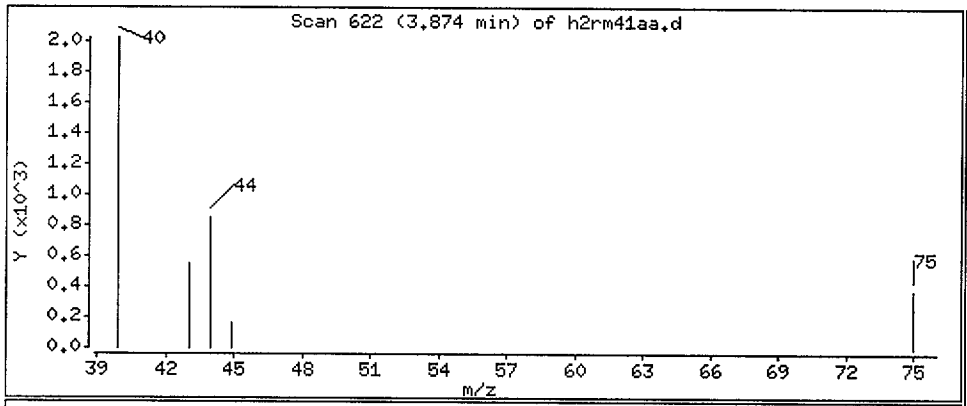
Operator: 22980

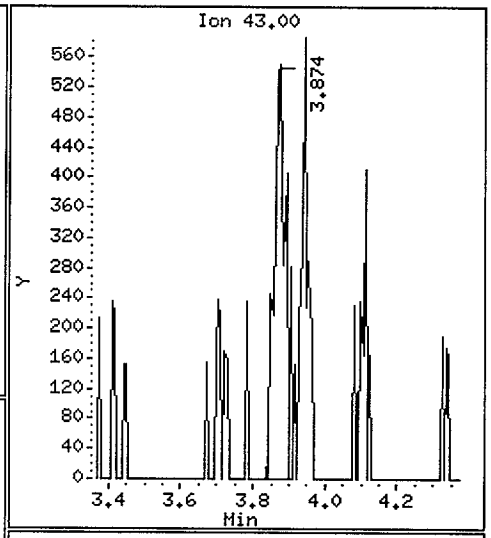
Column phase: J+W 624

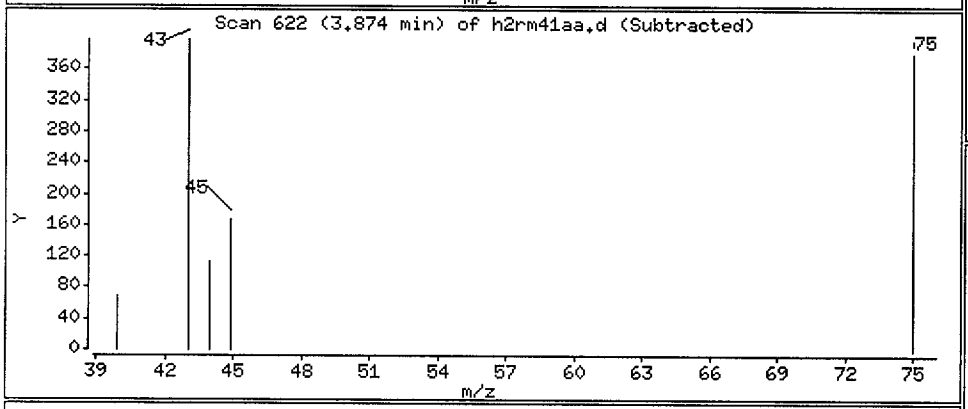
Column diameter: 0.18

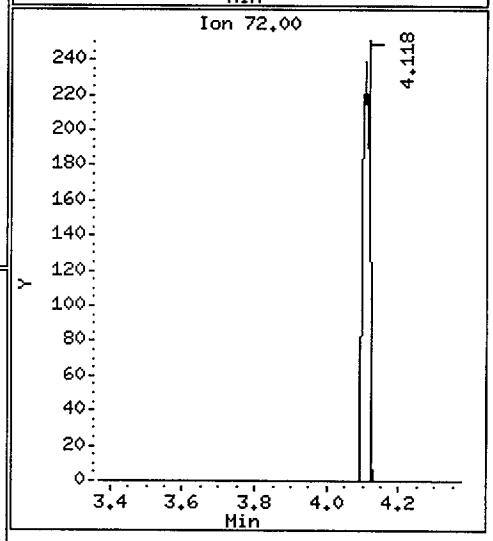
36 2-Butanone

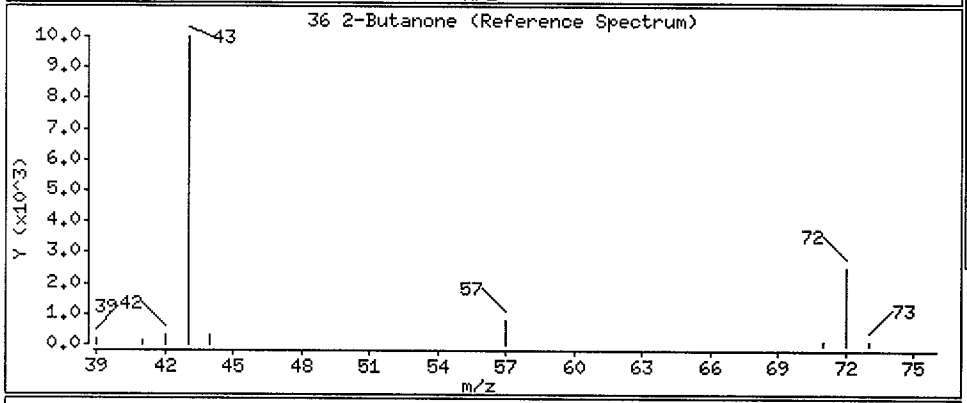
Concentration: 0.011113 ug

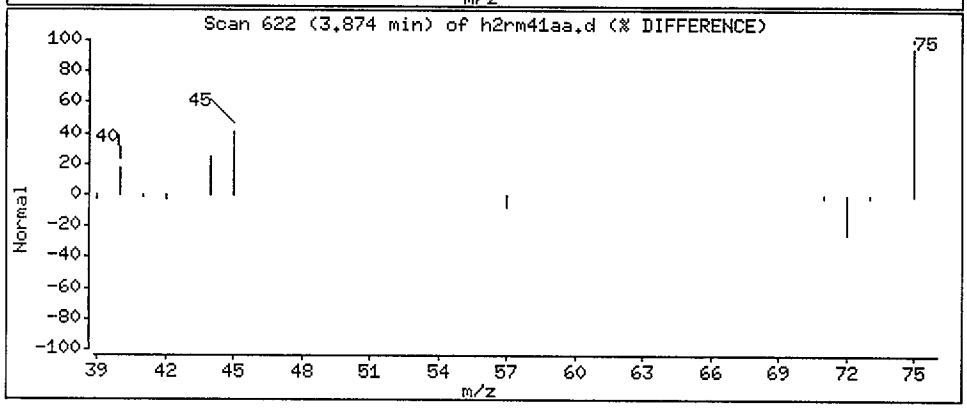












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

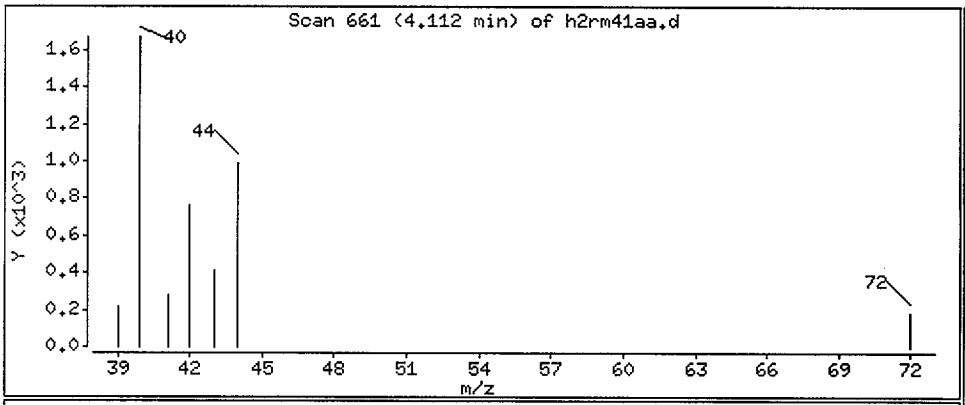
Operator: 22980

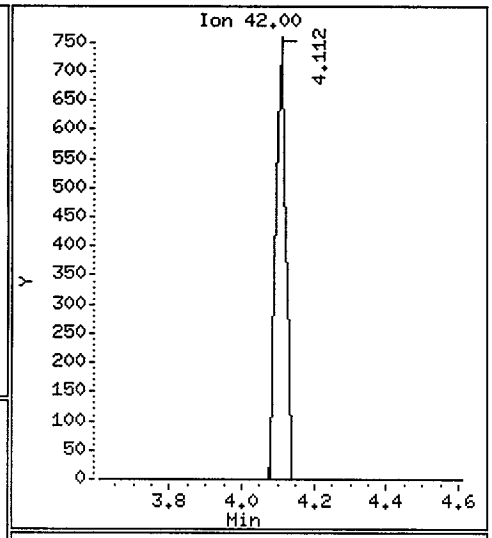
Column phase: J+W 624

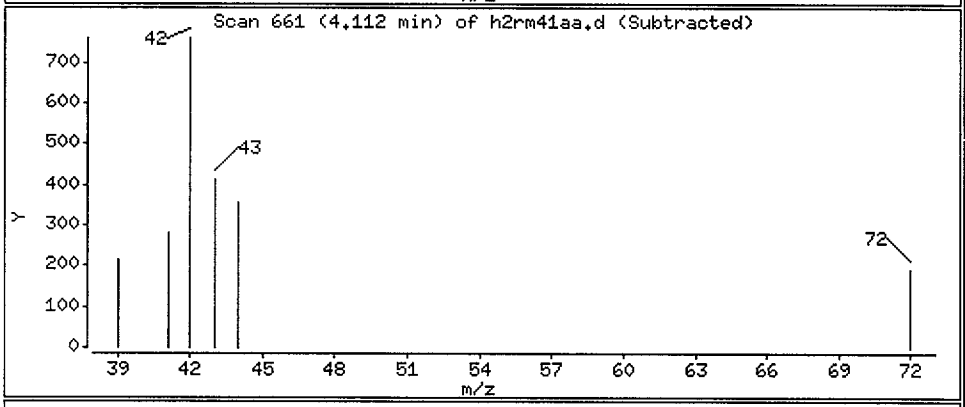
Column diameter: 0.18

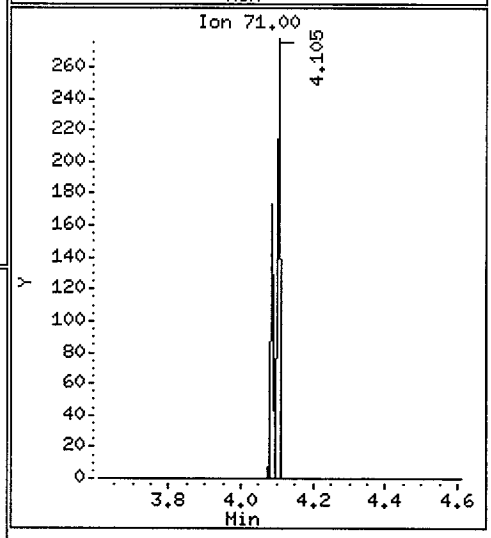
38 *THF

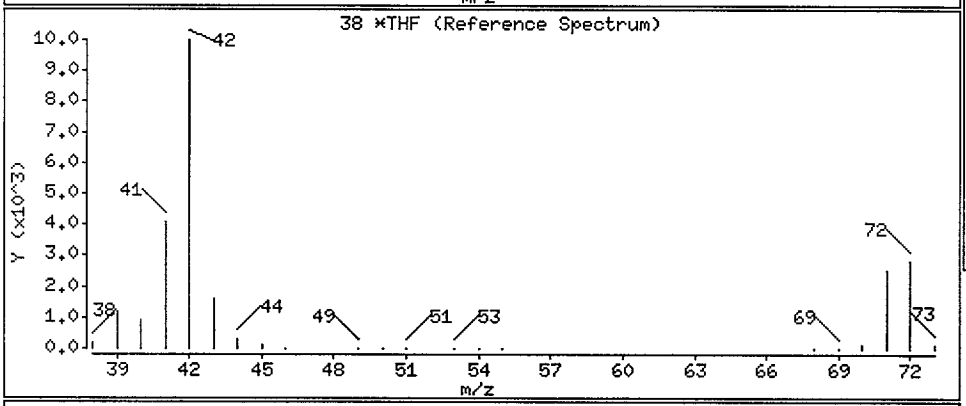
Concentration: 0.021534 ug

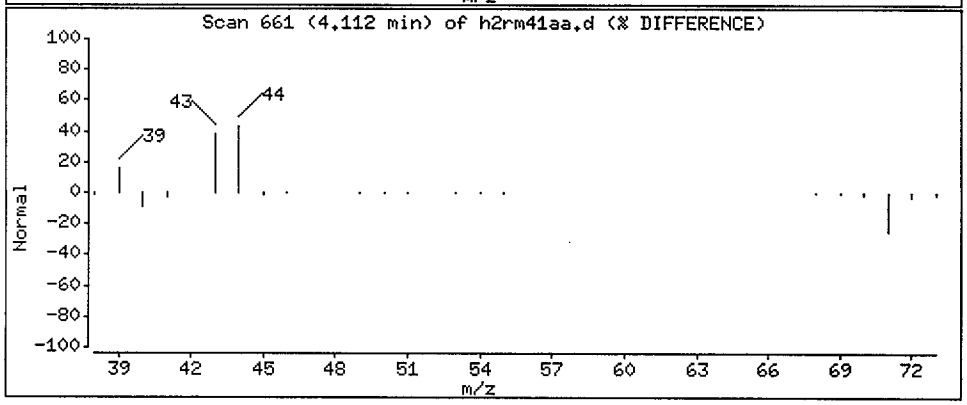












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

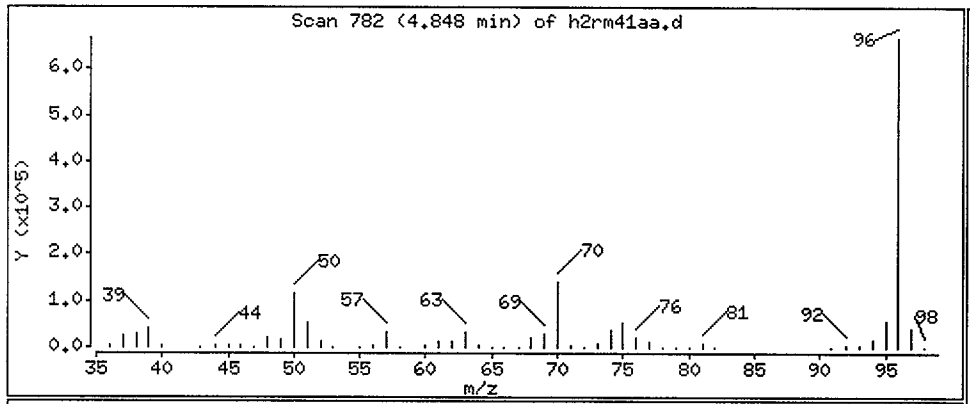
Operator: 22980

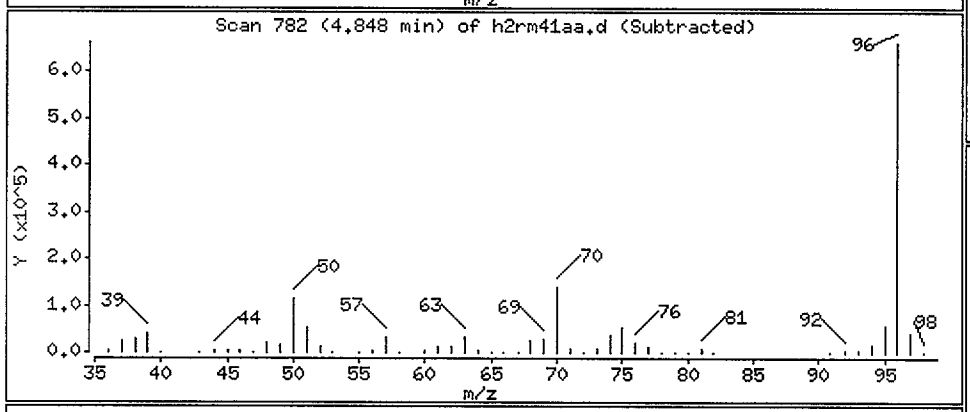
Column phase: J+W 624

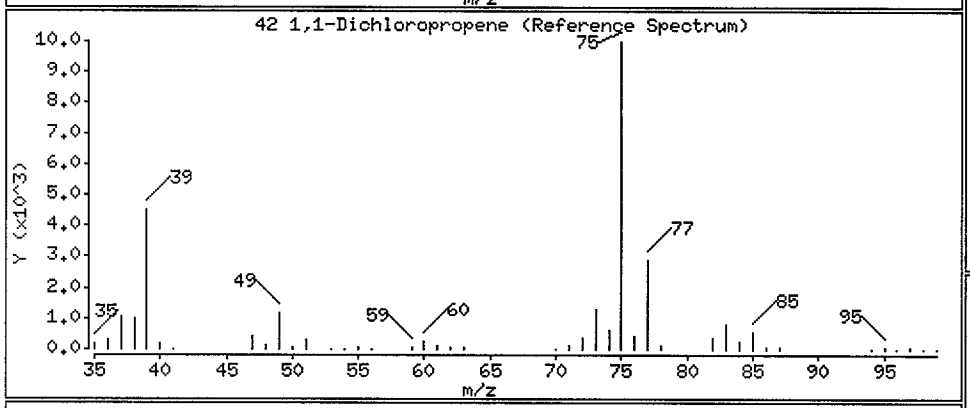
Column diameter: 0.18

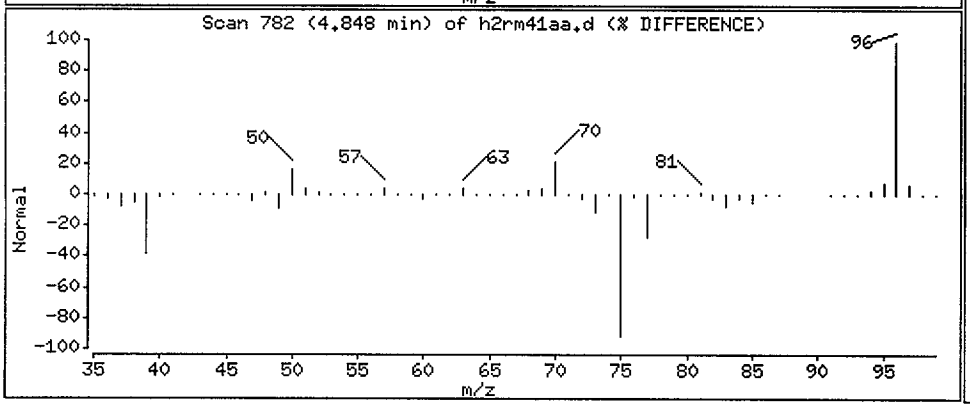
42 1,1-Dichloropropene

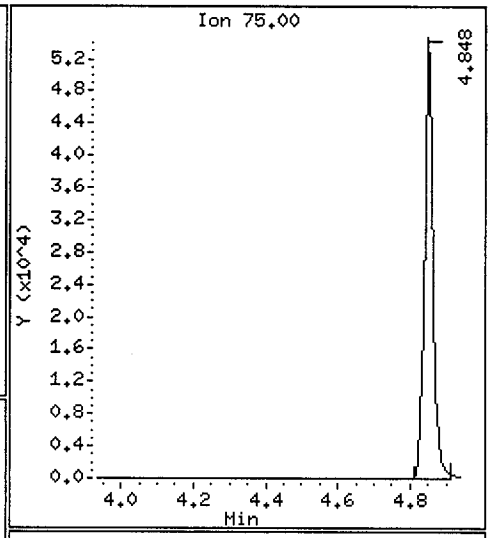
Concentration: 0.048569 ug

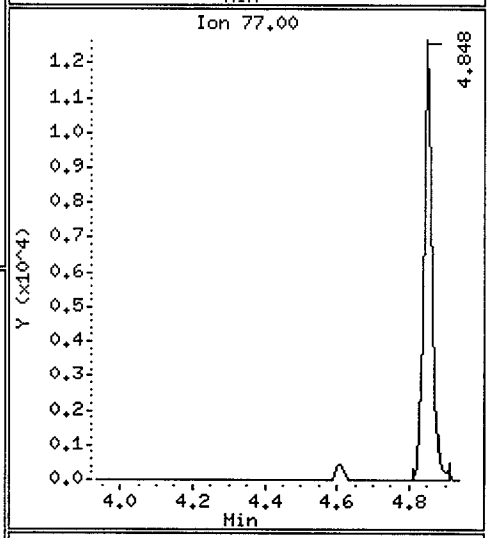


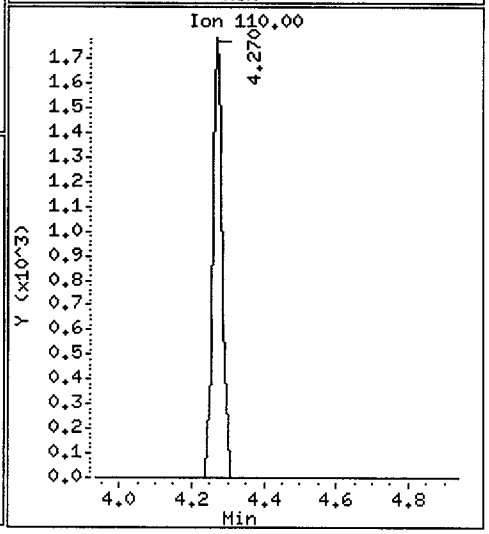












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

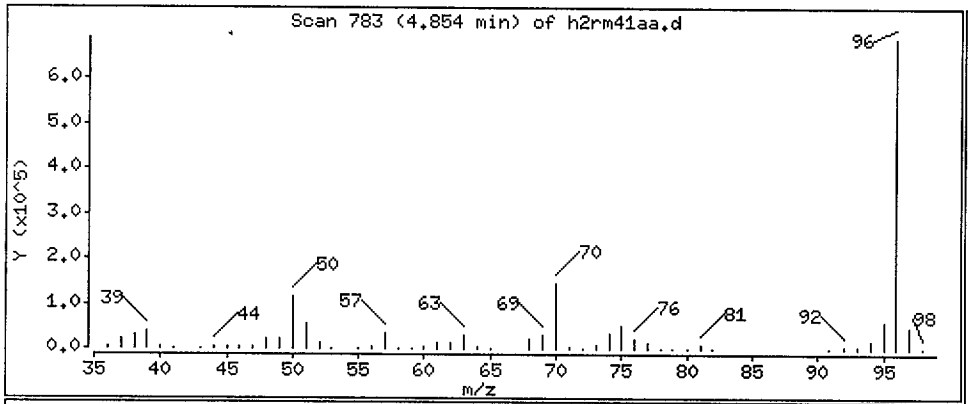
Operator: 22980

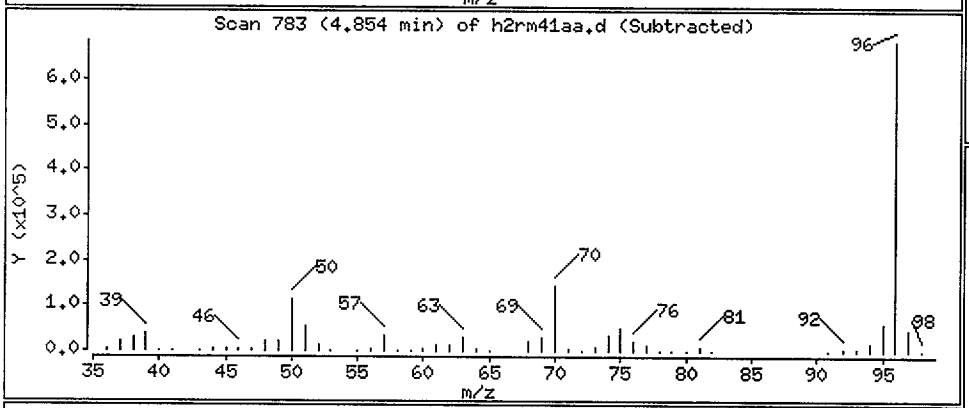
Column phase: J+W 624

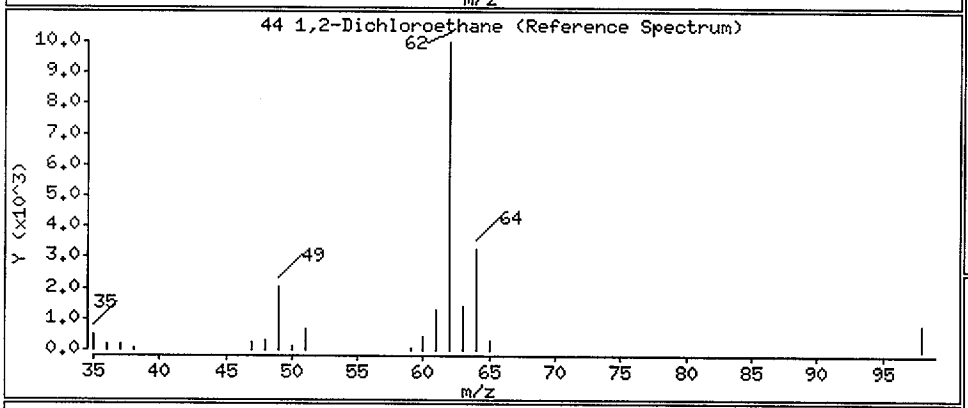
Column diameter: 0.18

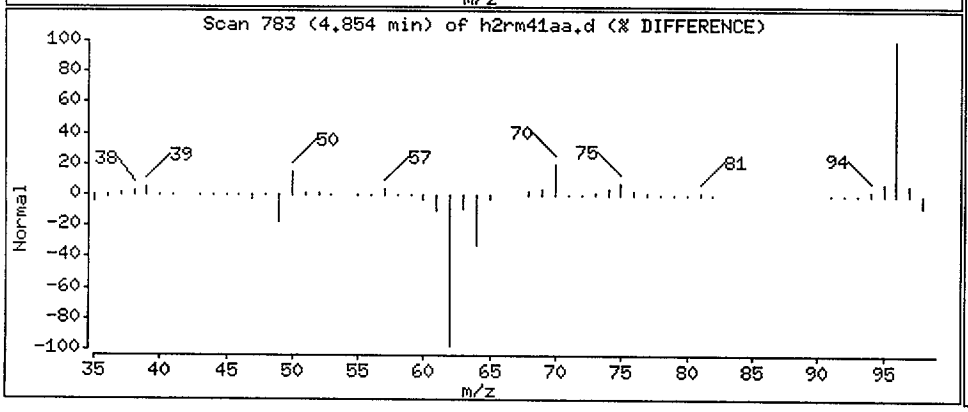
44 1,2-Dichloroethane

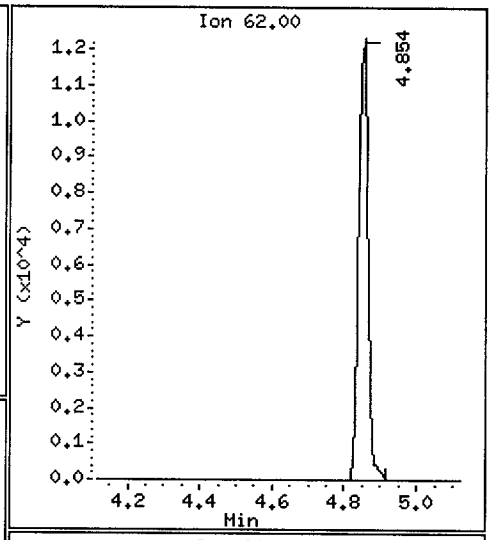
Concentration: 0.025694 ug

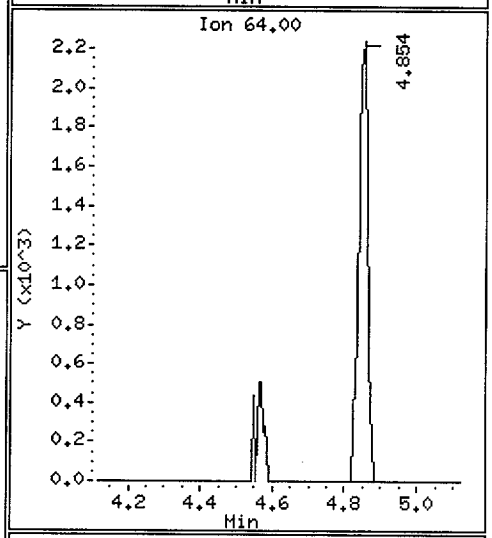


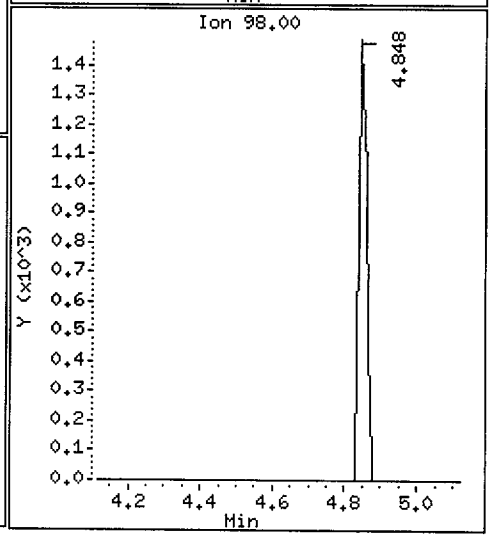












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

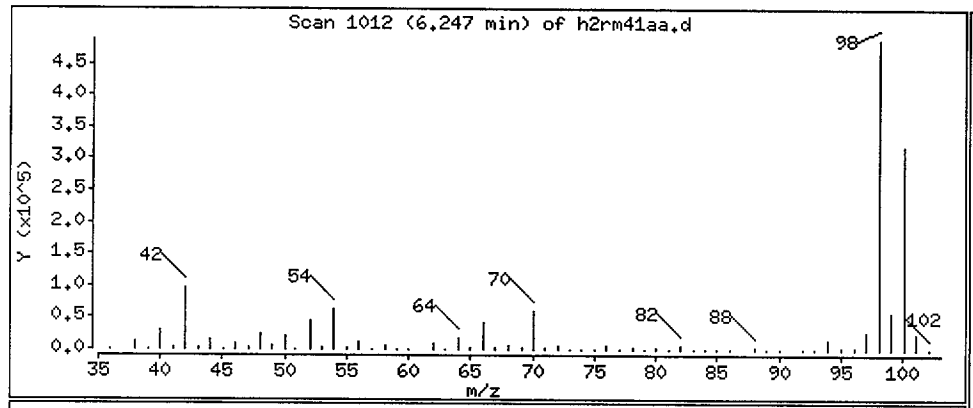
Operator: 22980

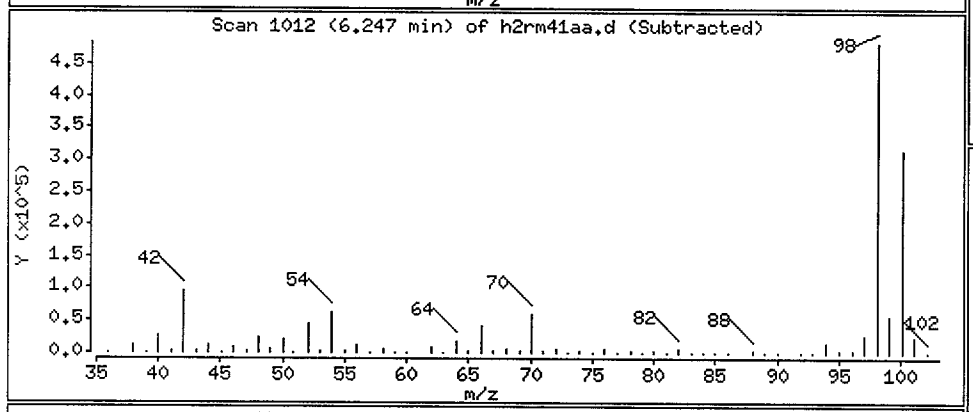
Column phase: J+W 624

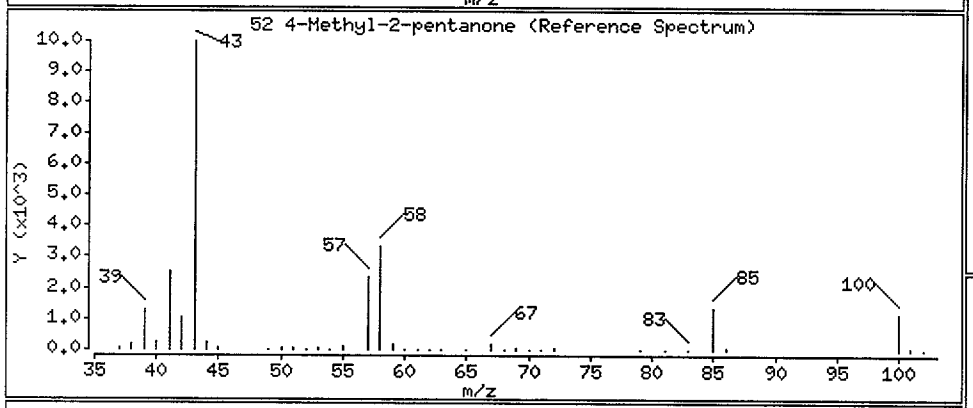
Column diameter: 0.18

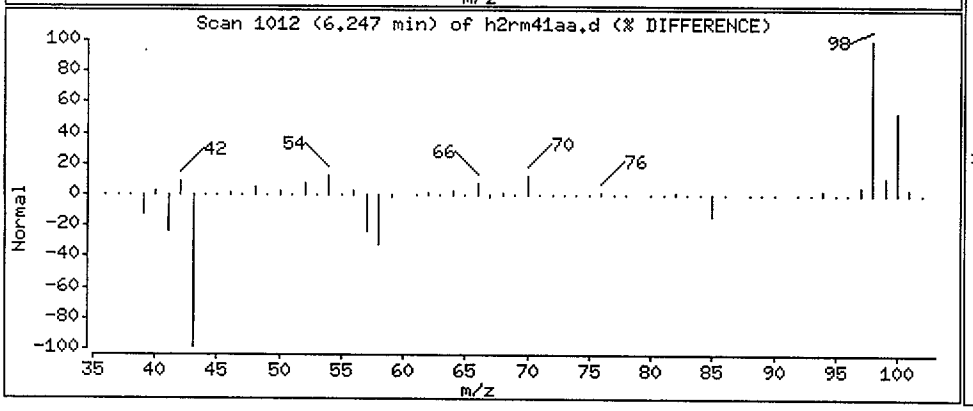
52 4-Methyl-2-pentanone

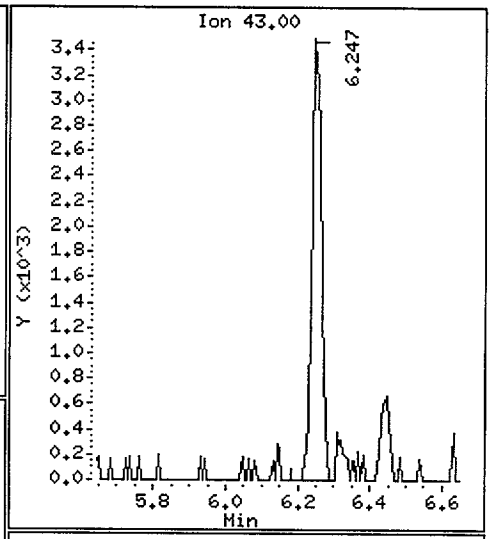
Concentration: 0.023840 ug

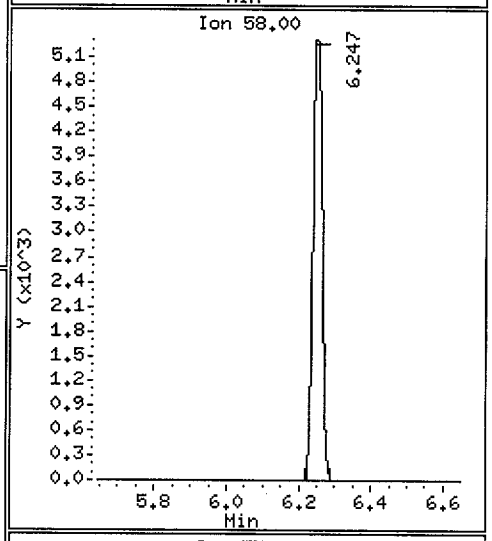


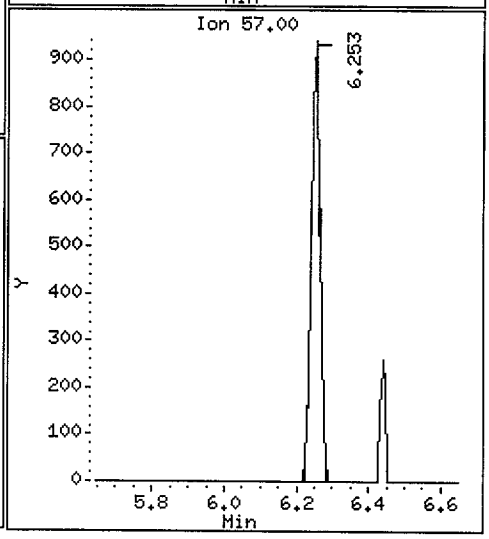












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

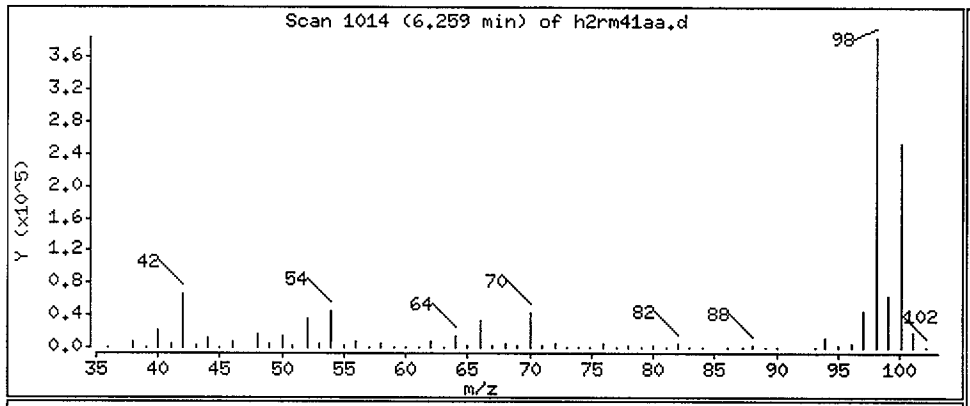
Operator: 22980

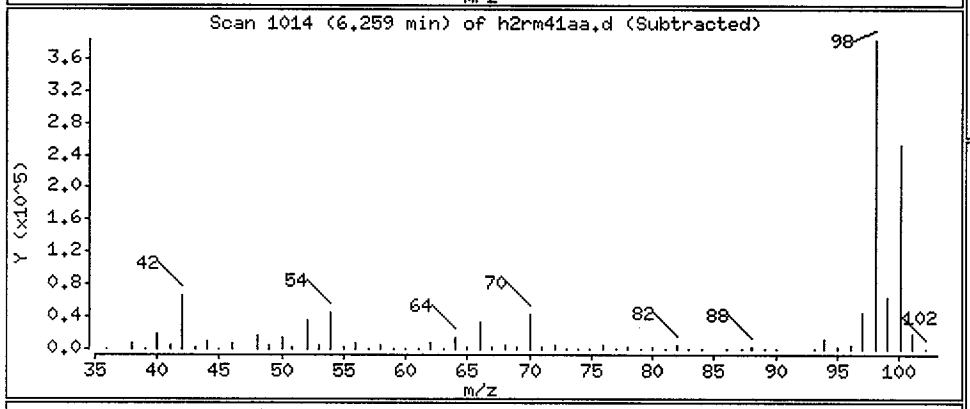
Column phase: J+W 624

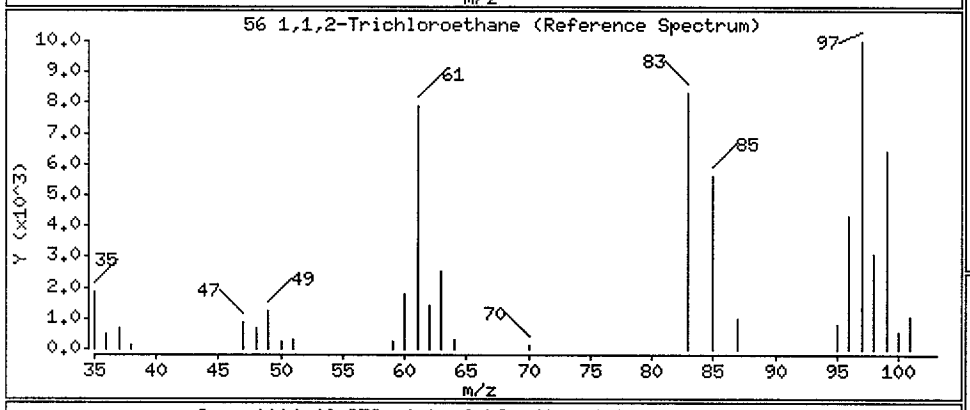
Column diameter: 0.18

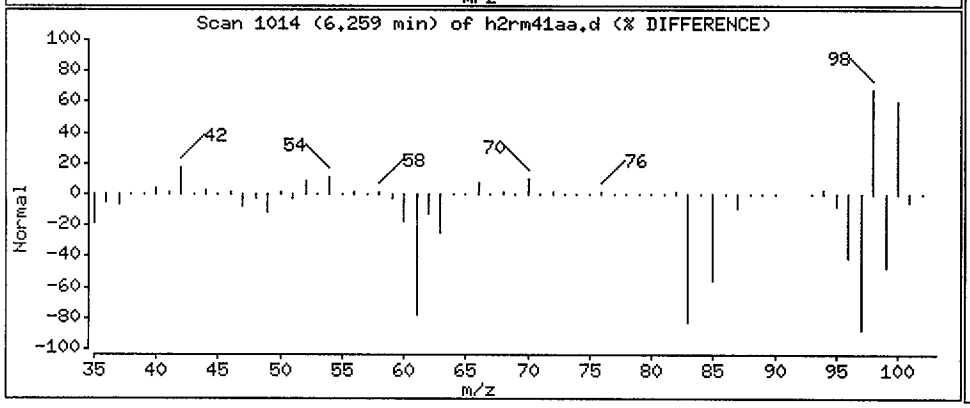
56 1,1,2-Trichloroethane

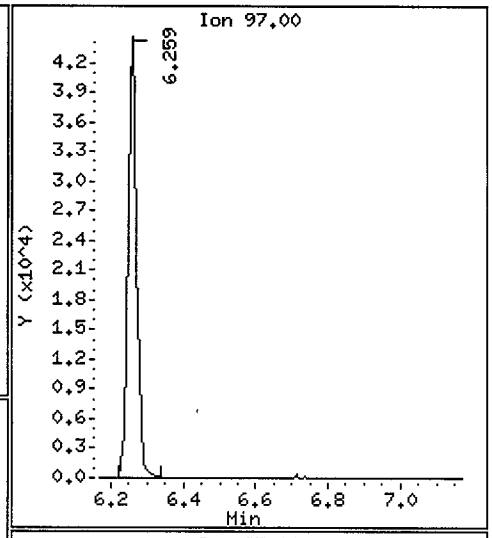
Concentration: 0.16993 ug

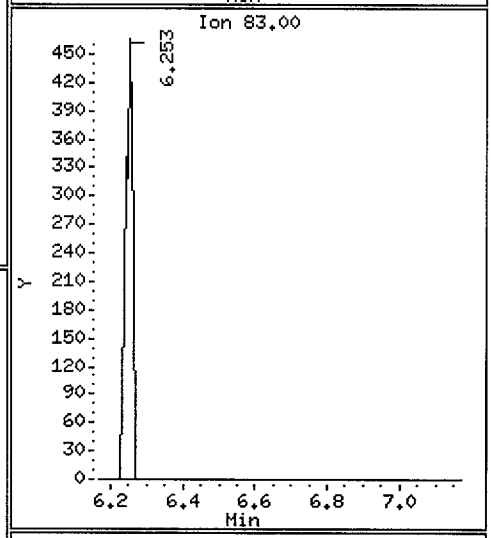


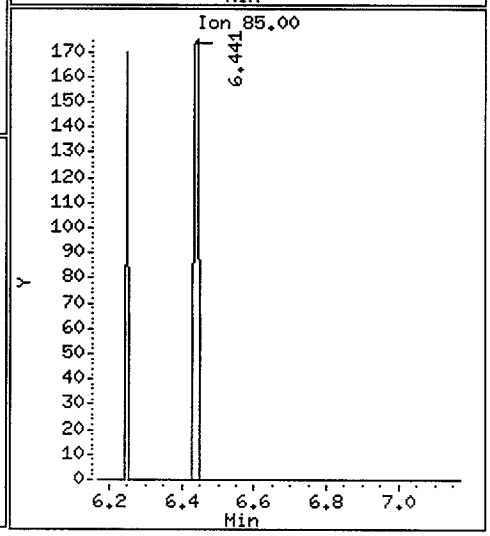












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

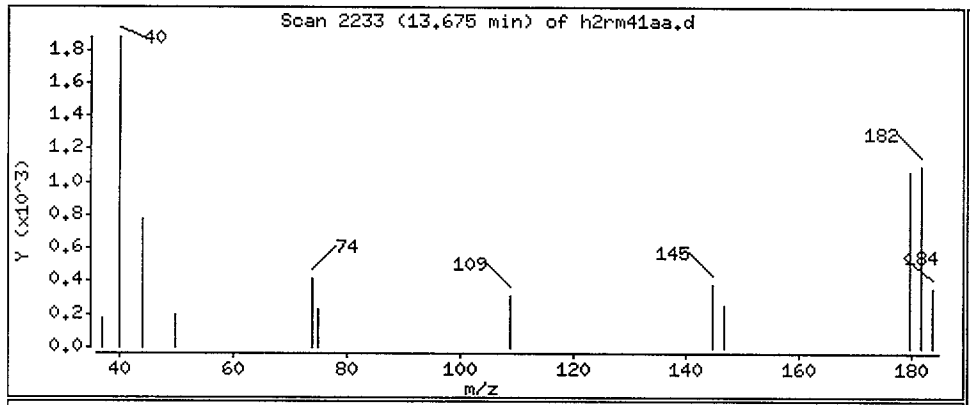
Operator: 22980

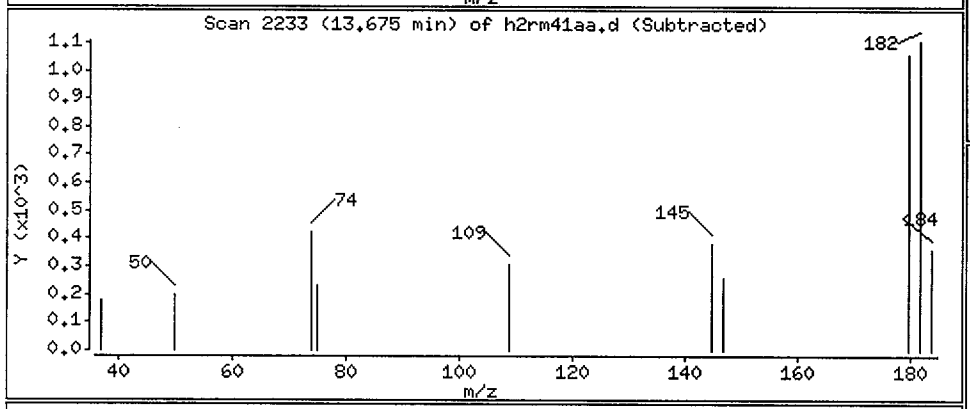
Column phase: J+W 624

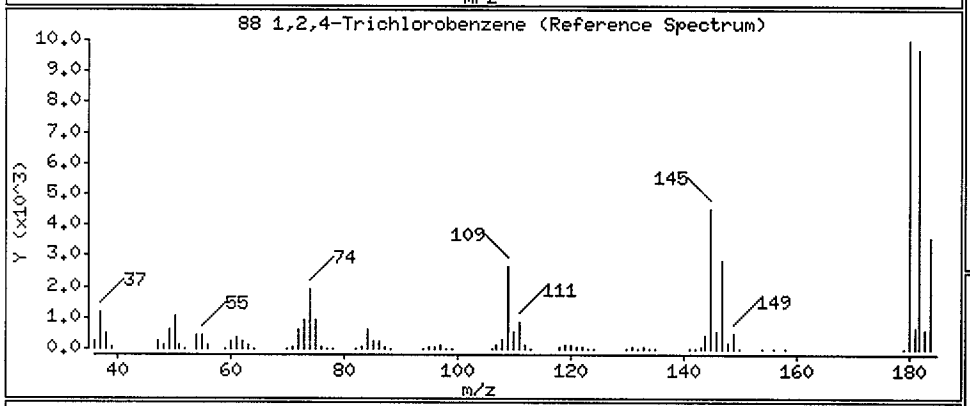
Column diameter: 0.18

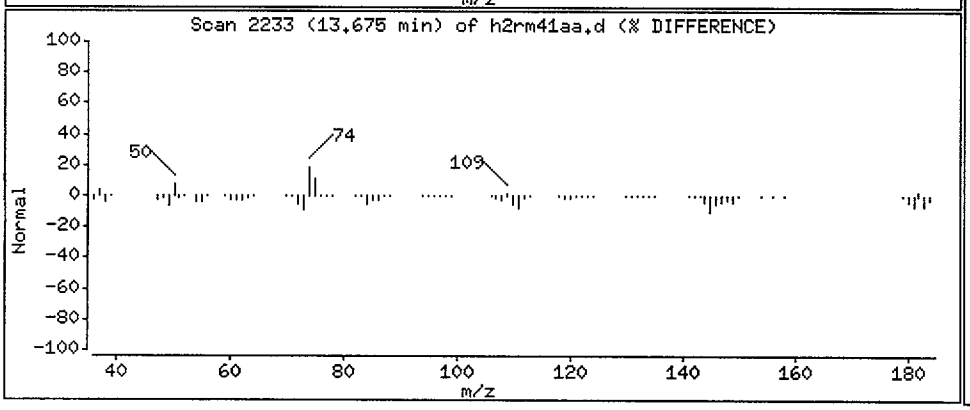
88 1,2,4-Trichlorobenzene

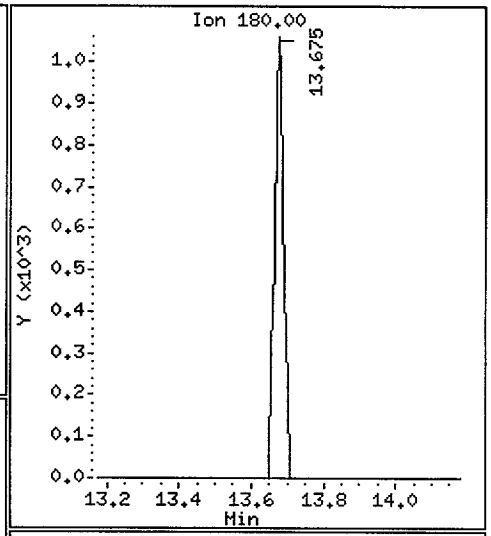
Concentration: 0.0029718 ug

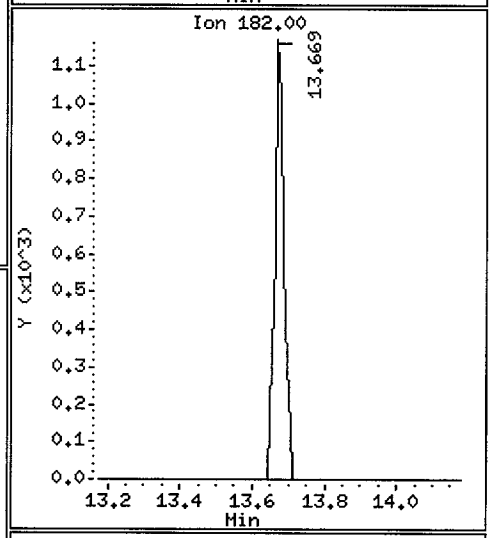


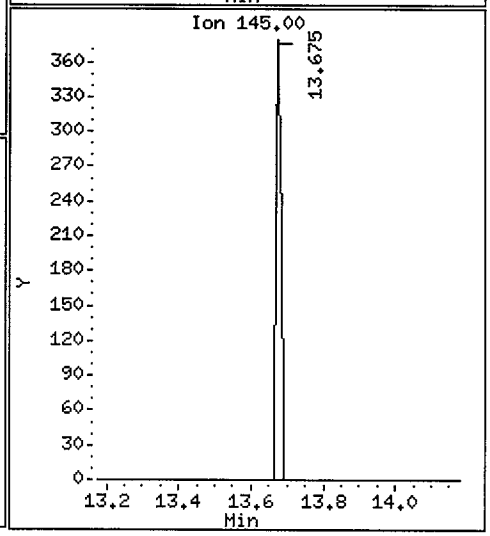












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

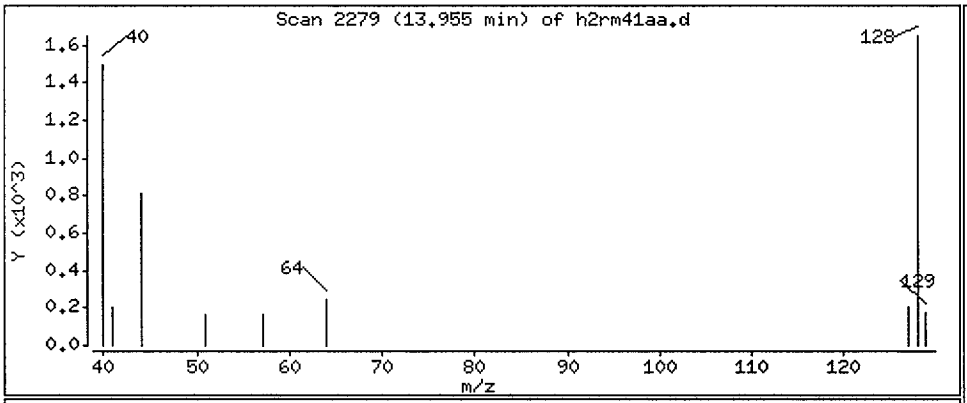
Operator: 22980

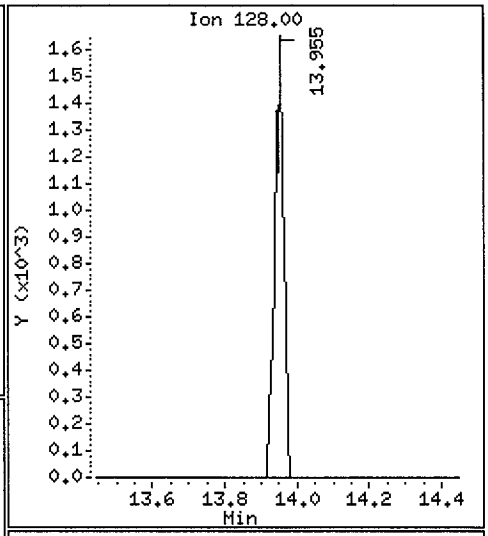
Column phase: J+W 624

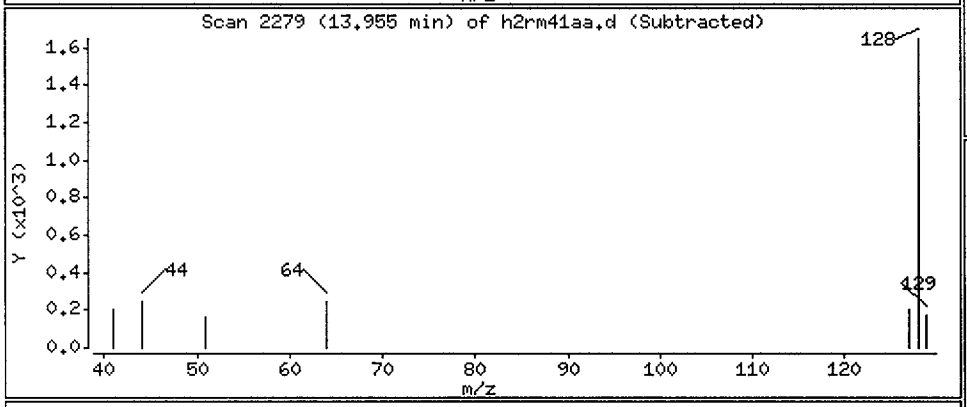
Column diameter: 0.18

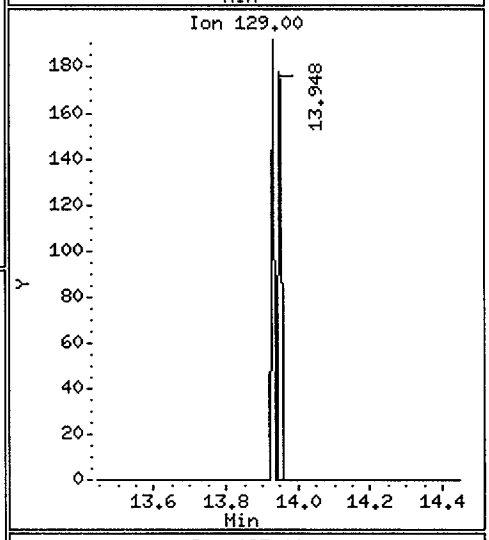
90 Napthalene

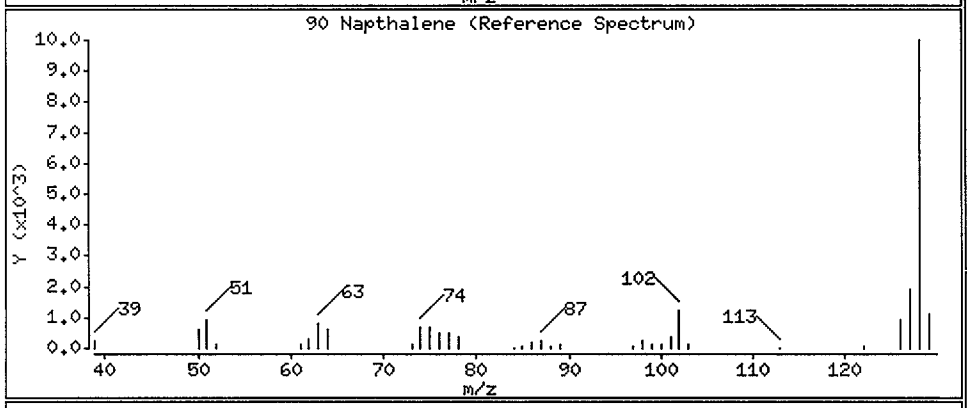
Concentration: 0.0060226 ug

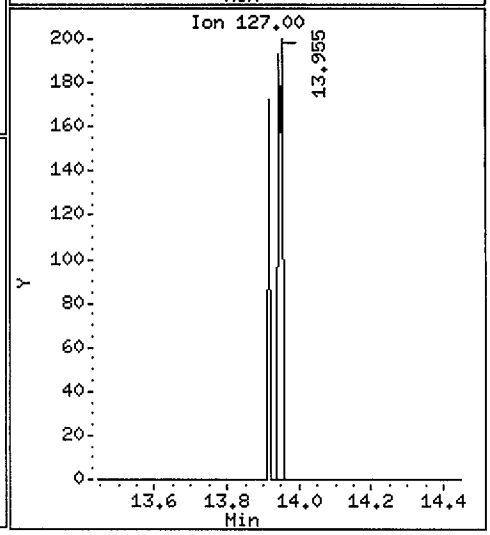


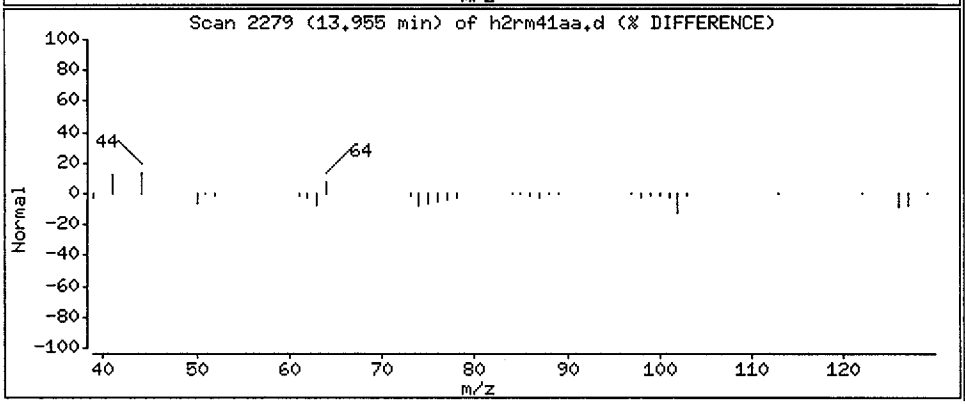












Data File: /chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H2RM41AA,1,3,,,BLK

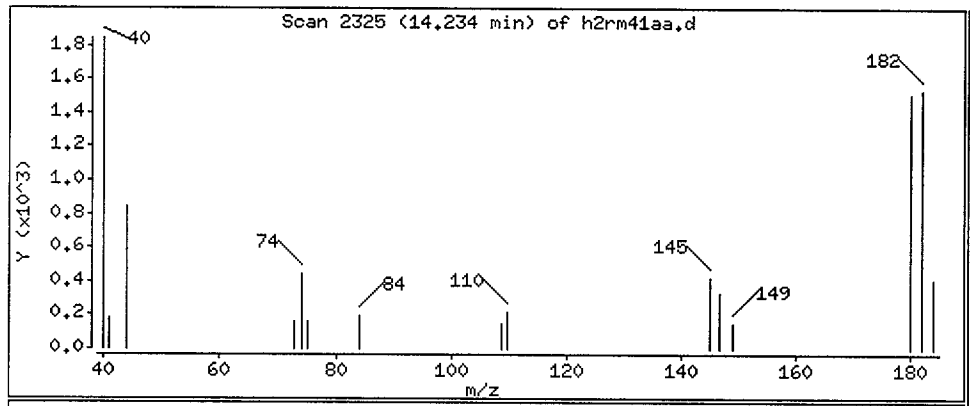
Operator: 22980

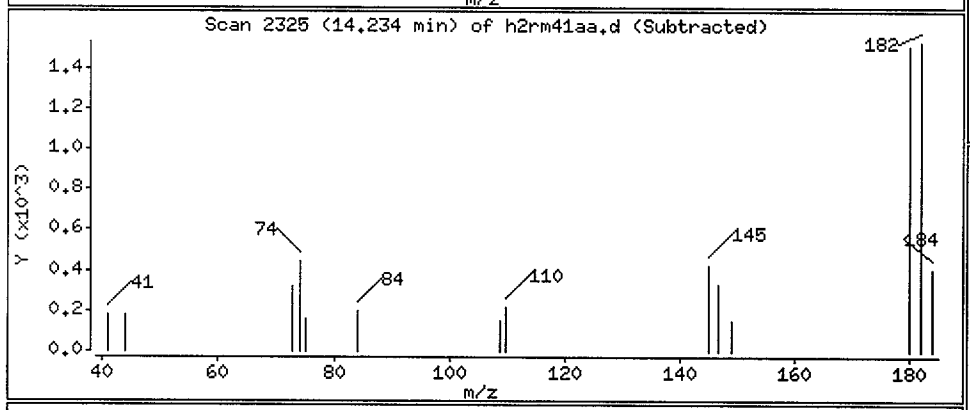
Column phase: J+W 624

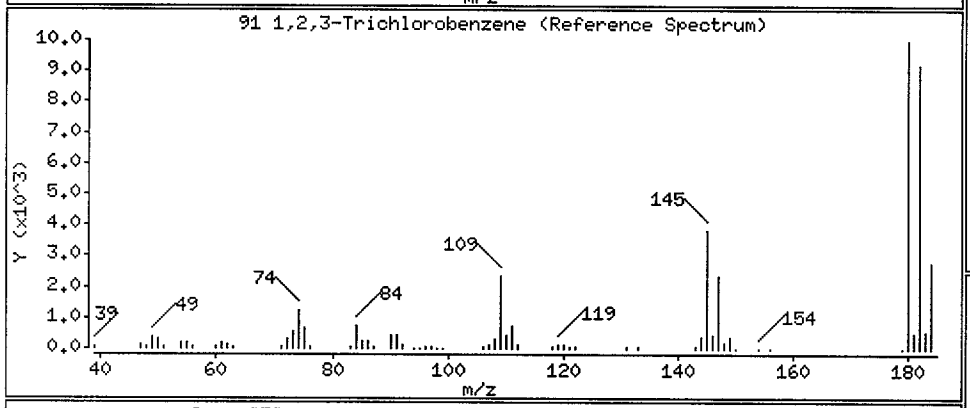
Column diameter: 0.18

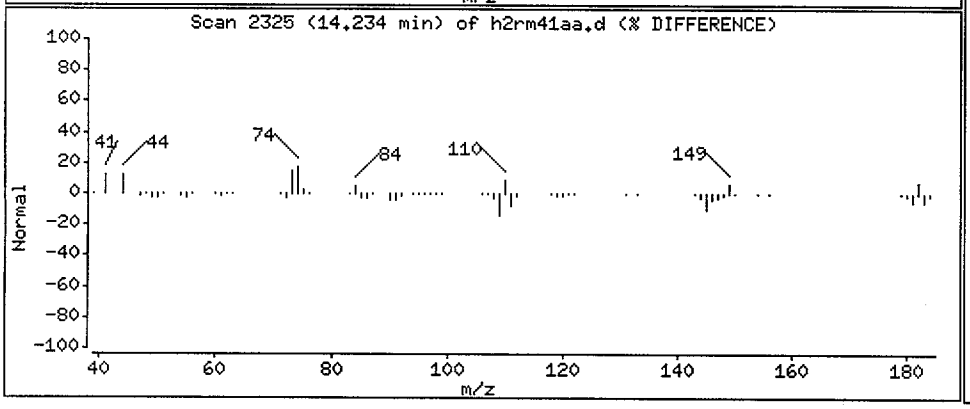
91 1,2,3-Trichlorobenzene

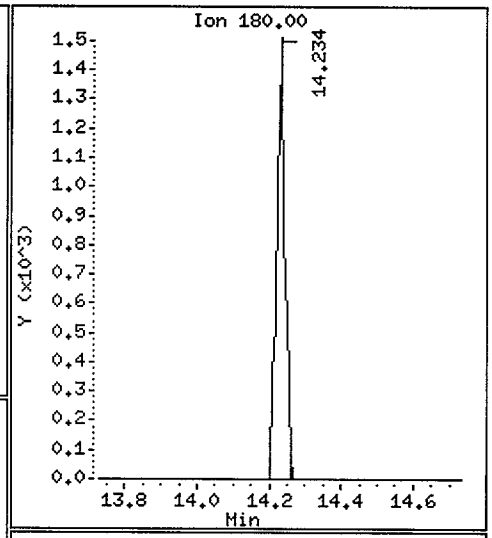
Concentration: 0.0058489 ug

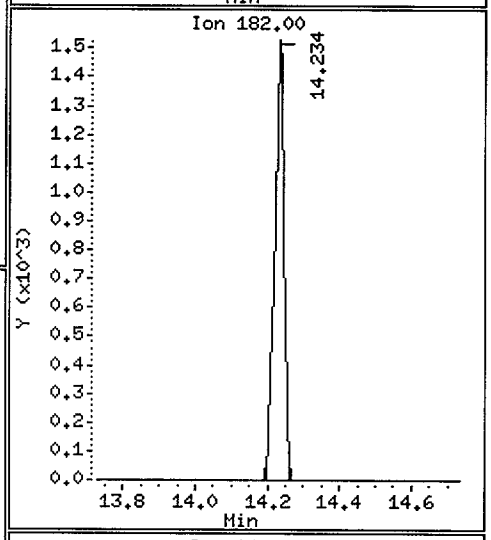


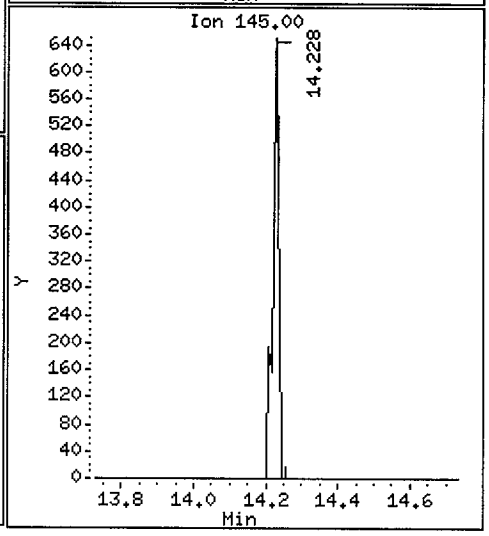












Data File: /var/chem/gcms/mx.i/X040706.b/h2rm41aa.d
Report Date: 18-Apr-2006 11:06

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X040706.b/h2rm41aa.d
Lab Smp Id: H2RM41AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 07-APR-2006 11:31
Operator : 22980 Inst ID: mx.i
Smp Info : H2RM41AA,1,3,,,BLK
Misc Info : X040706,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 18-Apr-2006 11:05 tajh Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.854	1595465	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
1.015	548488	3.43779400	0.085945	5	NIST02.1	77	1

ai
4/18/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2rm41aa.d

Date : 07-APR-2006 11:31

Client ID: INTRA-LAB BLANK

Instrument: mx.i

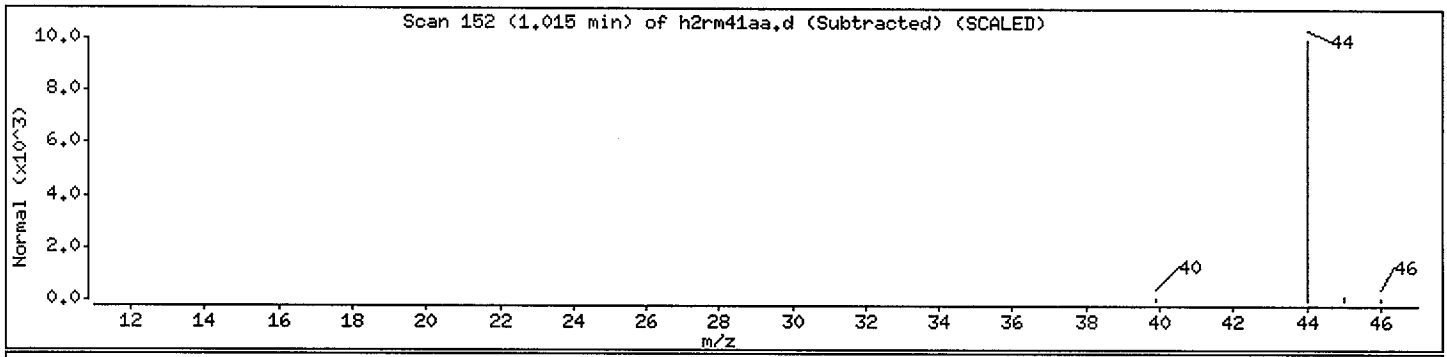
Sample Info: H2RM41AA,1,3,,,BLK

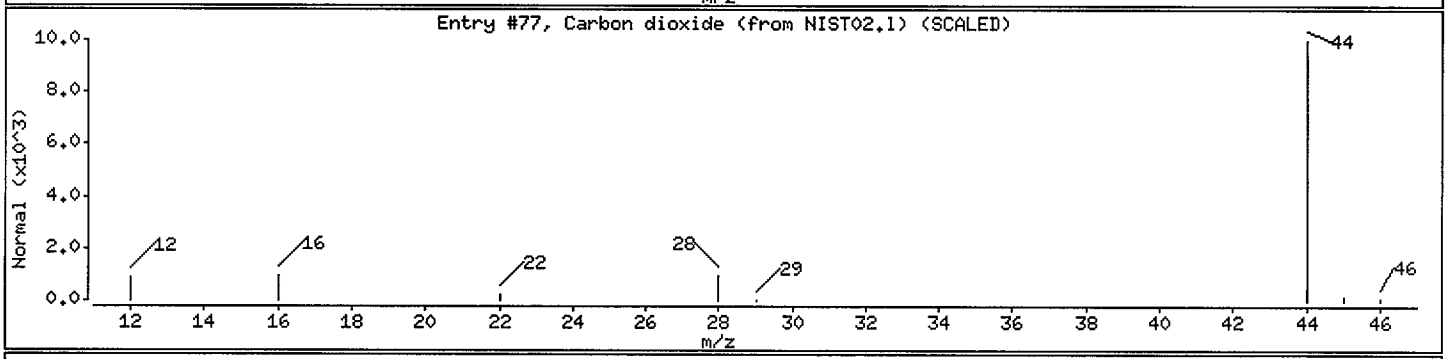
Operator: 22980

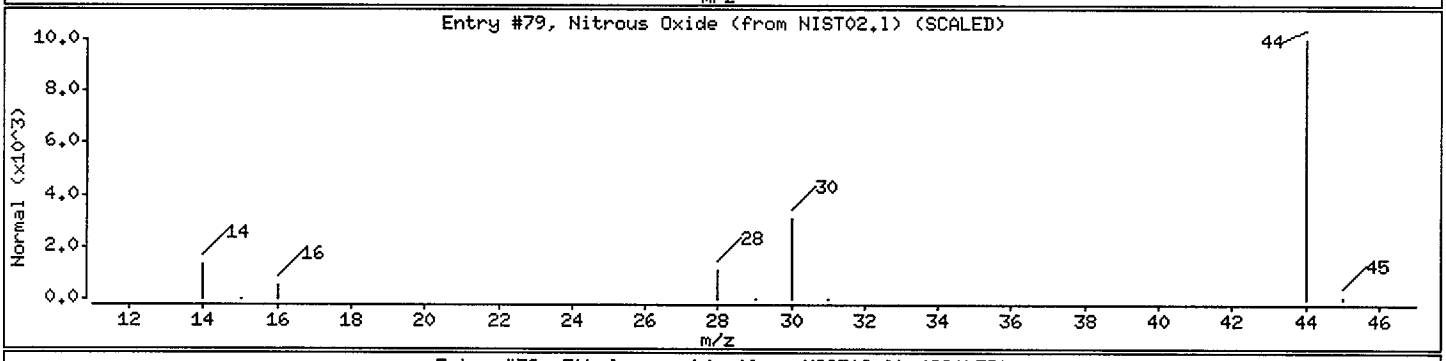
Column phase: J+W 624

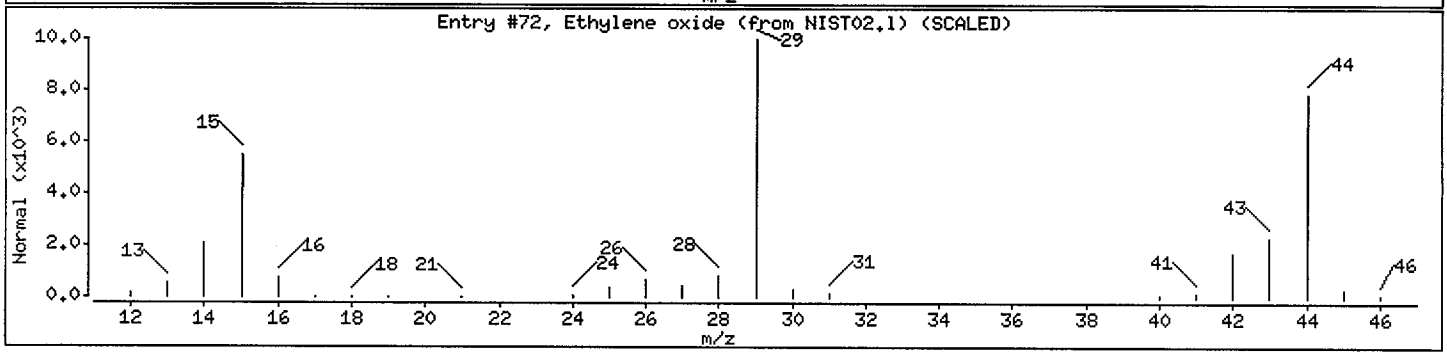
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.1	77	5	CO2	44
Nitrous Oxide	10024-97-2	NIST02.1	79	3	N2O	44
Ethylene oxide	75-21-8	NIST02.1	72	2	C2H4O	44









LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	128	(30 - 180)			SW846 VOST
	127	(30 - 180)	0.55	(0-25)	SW846 VOST
Acrylonitrile	53	(30 - 130)			SW846 VOST
	54	(30 - 130)	2.1	(0-30)	SW846 VOST
Benzene	**92**	**(69 - 130)**			**SW846 VOST**
	92	**(69 - 130)**	**0.020**	**(0-25)**	**SW846 VOST**
Bromobenzene	70	(50 - 117)			SW846 VOST
	74	(50 - 117)	5.4	(0-25)	SW846 VOST
Bromochloromethane	76	(52 - 125)			SW846 VOST
	77	(52 - 125)	0.92	(0-25)	SW846 VOST
Bromodichloromethane	85	(51 - 129)			SW846 VOST
	89	(51 - 129)	4.9	(0-25)	SW846 VOST
Bromoform	56	(40 - 111)			SW846 VOST
	59	(40 - 111)	5.1	(0-25)	SW846 VOST
Bromomethane	94	(30 - 170)			SW846 VOST
	92	(30 - 170)	1.5	(0-25)	SW846 VOST
2-Butanone	57	(30 - 150)			SW846 VOST
	67	(30 - 150)	17	(0-25)	SW846 VOST
n-Butylbenzene	111	(50 - 140)			SW846 VOST
	107	(50 - 140)	3.3	(0-25)	SW846 VOST
sec-Butylbenzene	95	(59 - 136)			SW846 VOST
	93	(59 - 136)	3.0	(0-25)	SW846 VOST
tert-Butylbenzene	87	(59 - 127)			SW846 VOST
	85	(59 - 127)	2.4	(0-25)	SW846 VOST
Carbon disulfide	104	(58 - 150)			SW846 VOST
	103	(58 - 150)	1.4	(0-25)	SW846 VOST
Carbon tetrachloride	95	(61 - 150)			SW846 VOST
	96	(61 - 150)	0.41	(0-25)	SW846 VOST
Chlorobenzene	**78**	**(70 - 116)**			**SW846 VOST**
	82	**(70 - 116)**	**4.4**	**(0-25)**	**SW846 VOST**
Chlorodibromomethane	64	(50 - 116)			SW846 VOST
	69	(50 - 116)	6.2	(0-25)	SW846 VOST
Chloroethane	96	(30 - 150)			SW846 VOST
	98	(30 - 150)	1.7	(0-25)	SW846 VOST
Chloroform	91	(60 - 132)			SW846 VOST
	94	(60 - 132)	3.2	(0-25)	SW846 VOST
Chloromethane	111	(30 - 170)			SW846 VOST
	104	(30 - 170)	6.3	(0-25)	SW846 VOST
2-Chlorotoluene	78	(50 - 122)			SW846 VOST
	78	(50 - 122)	0.51	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	81	(50 - 119)			SW846 VOST
	81	(50 - 119)	0.060	(0-25)	SW846 VOST
1,2-Dibromo-3-chloro-propane	30	(30 - 110)			SW846 VOST
	34	(30 - 110)	11	(0-25)	SW846 VOST
1,2-Dibromoethane	59	(50 - 111)			SW846 VOST
	62	(50 - 111)	5.9	(0-25)	SW846 VOST
Dibromomethane	77	(50 - 118)			SW846 VOST
	79	(50 - 118)	2.7	(0-25)	SW846 VOST
1,2-Dichlorobenzene	62	(50 - 108)			SW846 VOST
	64	(50 - 108)	3.1	(0-25)	SW846 VOST
1,3-Dichlorobenzene	72	(50 - 113)			SW846 VOST
	72	(50 - 113)	0.47	(0-25)	SW846 VOST
1,4-Dichlorobenzene	70	(50 - 111)			SW846 VOST
	72	(50 - 111)	2.4	(0-25)	SW846 VOST
Dichlorodifluoromethane	103	(30 - 150)			SW846 VOST
	98	(30 - 150)	4.5	(0-25)	SW846 VOST
1,1-Dichloroethane	94	(64 - 134)			SW846 VOST
	97	(64 - 134)	3.0	(0-25)	SW846 VOST
1,2-Dichloroethane	89	(50 - 121)			SW846 VOST
	92	(50 - 121)	3.1	(0-25)	SW846 VOST
cis-1,2-Dichloroethene	86	(60 - 131)			SW846 VOST
	89	(60 - 131)	3.3	(0-25)	SW846 VOST
trans-1,2-Dichloroethene	89	(68 - 140)			SW846 VOST
	89	(68 - 140)	0.54	(0-25)	SW846 VOST
1,1-Dichloroethene	**101**	**(63 - 150)**			**SW846 VOST**
	99	**(63 - 150)**	**2.2**	**(0-25)**	**SW846 VOST**
1,2-Dichloropropane	88	(56 - 124)			SW846 VOST
	91	(56 - 124)	3.4	(0-25)	SW846 VOST
1,3-Dichloropropane	66	(50 - 113)			SW846 VOST
	69	(50 - 113)	4.6	(0-25)	SW846 VOST
2,2-Dichloropropane	62 a	(66 - 150)			SW846 VOST
	65 a	(66 - 150)	4.0	(0-25)	SW846 VOST
cis-1,3-Dichloropropene	80	(50 - 128)			SW846 VOST
	84	(50 - 128)	4.9	(0-25)	SW846 VOST
trans-1,3-Dichloropropene	62	(50 - 116)			SW846 VOST
	68	(50 - 116)	7.9	(0-25)	SW846 VOST
1,1-Dichloropropene	103	(75 - 149)			SW846 VOST
	101	(75 - 149)	1.4	(0-25)	SW846 VOST
Ethylbenzene	87	(66 - 129)			SW846 VOST
	89	(66 - 129)	2.4	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	74	(50 - 150)			SW846 VOST
	76	(50 - 150)	3.6	(0-25)	SW846 VOST
2-Hexanone	57	(30 - 133)			SW846 VOST
	67	(30 - 133)	16	(0-25)	SW846 VOST
Iodomethane	92	(50 - 150)			SW846 VOST
	92	(50 - 150)	0.65	(0-25)	SW846 VOST
Isopropylbenzene	90	(62 - 137)			SW846 VOST
	91	(62 - 137)	0.92	(0-25)	SW846 VOST
p-Isopropyltoluene	93	(57 - 131)			SW846 VOST
	90	(57 - 131)	3.3	(0-25)	SW846 VOST
Methylene chloride	83	(50 - 149)			SW846 VOST
	84	(50 - 149)	0.98	(0-25)	SW846 VOST
4-Methyl-2-pentanone	68	(30 - 120)			SW846 VOST
	76	(30 - 120)	10	(0-25)	SW846 VOST
Naphthalene	76	(30 - 120)			SW846 VOST
	80	(30 - 120)	5.3	(0-25)	SW846 VOST
n-Propylbenzene	94	(56 - 136)			SW846 VOST
	91	(56 - 136)	2.8	(0-25)	SW846 VOST
Styrene	73	(50 - 122)			SW846 VOST
	75	(50 - 122)	3.8	(0-25)	SW846 VOST
1,1,1,2-Tetrachloroethane	63	(50 - 115)			SW846 VOST
	66	(50 - 115)	5.4	(0-25)	SW846 VOST
1,1,2,2-Tetrachloroethane	57	(30 - 110)			SW846 VOST
	60	(30 - 110)	5.2	(0-25)	SW846 VOST
Tetrachloroethene	89	(60 - 142)			SW846 VOST
	90	(60 - 142)	0.54	(0-25)	SW846 VOST
Toluene	**87**	**(64 - 128)**			**SW846 VOST**
	87	**(64 - 128)**	**0.40**	**(0-25)**	**SW846 VOST**
1,2,3-Trichlorobenzene	73	(30 - 106)			SW846 VOST
	78	(30 - 106)	6.7	(0-25)	SW846 VOST
1,2,4-Trichloro-benzene	69	(30 - 116)			SW846 VOST
	76	(30 - 116)	9.7	(0-25)	SW846 VOST
1,1,1-Trichloroethane	99	(64 - 150)			SW846 VOST
	98	(64 - 150)	0.56	(0-25)	SW846 VOST
1,1,2-Trichloroethane	64	(50 - 112)			SW846 VOST
	67	(50 - 112)	4.7	(0-25)	SW846 VOST
Trichloroethene	**95**	**(72 - 150)**			**SW846 VOST**
	96	**(72 - 150)**	**1.5**	**(0-25)**	**SW846 VOST**
Trichlorofluoromethane	98	(30 - 150)			SW846 VOST
	97	(30 - 150)	0.70	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,3-Trichloropropane	51	(30 - 110)			SW846 VOST
	54	(30 - 110)	5.2	(0-25)	SW846 VOST
1,2,4-Trimethylbenzene	91	(50 - 125)			SW846 VOST
	91	(50 - 125)	0.65	(0-25)	SW846 VOST
1,3,5-Trimethylbenzene	94	(53 - 130)			SW846 VOST
	93	(53 - 130)	1.4	(0-25)	SW846 VOST
Vinyl chloride	105	(61 - 150)			SW846 VOST
	104	(61 - 150)	0.67	(0-25)	SW846 VOST
m-Xylene & p-Xylene	88	(62 - 131)			SW846 VOST
	89	(62 - 131)	1.0	(0-25)	SW846 VOST
o-Xylene	81	(56 - 121)			SW846 VOST
	83	(56 - 121)	2.7	(0-25)	SW846 VOST
Xylenes (total)	86	(60 - 127)			SW846 VOST
	87	(60 - 127)	1.6	(0-25)	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(50 - 134)
	80	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
	79	(50 - 134)
Toluene-d8	73	(57 - 127)
	75	(57 - 127)
Bromofluorobenzene	64	(50 - 125)
	64	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	1.00	1.28	ug	128		SW846 VOST
	1.00	1.27	ug	127	0.55	SW846 VOST
Acrylonitrile	5.00	2.63	ug	53		SW846 VOST
	5.00	2.69	ug	54	2.1	SW846 VOST
Benzene	**0.250**	**0.231**	**ug**	**92**		**SW846 VOST**
	0.250	**0.231**	**ug**	**92**	**0.020**	**SW846 VOST**
Bromobenzene	0.250	0.176	ug	70		SW846 VOST
	0.250	0.185	ug	74	5.4	SW846 VOST
Bromochloromethane	0.250	0.190	ug	76		SW846 VOST
	0.250	0.192	ug	77	0.92	SW846 VOST
Bromodichloromethane	0.250	0.213	ug	85		SW846 VOST
	0.250	0.224	ug	89	4.9	SW846 VOST
Bromoform	0.250	0.141	ug	56		SW846 VOST
	0.250	0.149	ug	59	5.1	SW846 VOST
Bromomethane	0.250	0.234	ug	94		SW846 VOST
	0.250	0.230	ug	92	1.5	SW846 VOST
2-Butanone	1.00	0.570	ug	57		SW846 VOST
	1.00	0.674	ug	67	17	SW846 VOST
n-Butylbenzene	0.250	0.277	ug	111		SW846 VOST
	0.250	0.268	ug	107	3.3	SW846 VOST
sec-Butylbenzene	0.250	0.238	ug	95		SW846 VOST
	0.250	0.231	ug	93	3.0	SW846 VOST
tert-Butylbenzene	0.250	0.217	ug	87		SW846 VOST
	0.250	0.212	ug	85	2.4	SW846 VOST
Carbon disulfide	0.250	0.261	ug	104		SW846 VOST
	0.250	0.257	ug	103	1.4	SW846 VOST
Carbon tetrachloride	0.250	0.239	ug	95		SW846 VOST
	0.250	0.240	ug	96	0.41	SW846 VOST
Chlorobenzene	**0.250**	**0.195**	**ug**	**78**		**SW846 VOST**
	0.250	**0.204**	**ug**	**82**	**4.4**	**SW846 VOST**
Chlorodibromomethane	0.250	0.161	ug	64		SW846 VOST
	0.250	0.171	ug	69	6.2	SW846 VOST
Chloroethane	0.250	0.241	ug	96		SW846 VOST
	0.250	0.245	ug	98	1.7	SW846 VOST
Chloroform	0.250	0.228	ug	91		SW846 VOST
	0.250	0.235	ug	94	3.2	SW846 VOST
Chloromethane	0.250	0.276	ug	111		SW846 VOST
	0.250	0.259	ug	104	6.3	SW846 VOST
2-Chlorotoluene	0.250	0.196	ug	78		SW846 VOST
	0.250	0.195	ug	78	0.51	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorotoluene	0.250	0.202	ug	81		SW846 VOST
	0.250	0.202	ug	81	0.060	SW846 VOST
1,2-Dibromo-3-chloro-propane	0.250	0.0758	ug	30		SW846 VOST
	0.250	0.0844	ug	34	11	SW846 VOST
1,2-Dibromoethane	0.250	0.147	ug	59		SW846 VOST
	0.250	0.156	ug	62	5.9	SW846 VOST
Dibromomethane	0.250	0.192	ug	77		SW846 VOST
	0.250	0.197	ug	79	2.7	SW846 VOST
1,2-Dichlorobenzene	0.250	0.155	ug	62		SW846 VOST
	0.250	0.160	ug	64	3.1	SW846 VOST
1,3-Dichlorobenzene	0.250	0.179	ug	72		SW846 VOST
	0.250	0.180	ug	72	0.47	SW846 VOST
1,4-Dichlorobenzene	0.250	0.176	ug	70		SW846 VOST
	0.250	0.180	ug	72	2.4	SW846 VOST
Dichlorodifluoromethane	0.250	0.257	ug	103		SW846 VOST
	0.250	0.246	ug	98	4.5	SW846 VOST
1,1-Dichloroethane	0.250	0.236	ug	94		SW846 VOST
	0.250	0.243	ug	97	3.0	SW846 VOST
1,2-Dichloroethane	0.250	0.222	ug	89		SW846 VOST
	0.250	0.229	ug	92	3.1	SW846 VOST
cis-1,2-Dichloroethene	0.250	0.214	ug	86		SW846 VOST
	0.250	0.221	ug	89	3.3	SW846 VOST
trans-1,2-Dichloroethene	0.250	0.222	ug	89		SW846 VOST
	0.250	0.223	ug	89	0.54	SW846 VOST
1,1-Dichloroethene	**0.250**	**0.252**	**ug**	**101**		**SW846 VOST**
	0.250	**0.246**	**ug**	**99**	**2.2**	**SW846 VOST**
1,2-Dichloropropane	0.250	0.220	ug	88		SW846 VOST
	0.250	0.228	ug	91	3.4	SW846 VOST
1,3-Dichloropropane	0.250	0.164	ug	66		SW846 VOST
	0.250	0.172	ug	69	4.6	SW846 VOST
2,2-Dichloropropane	0.250	0.155 a	ug	62		SW846 VOST
	0.250	0.162 a	ug	65	4.0	SW846 VOST
cis-1,3-Dichloropropene	0.250	0.201	ug	80		SW846 VOST
	0.250	0.211	ug	84	4.9	SW846 VOST
trans-1,3-Dichloropropene	0.250	0.156	ug	62		SW846 VOST
	0.250	0.169	ug	68	7.9	SW846 VOST
1,1-Dichloropropene	0.250	0.257	ug	103		SW846 VOST
	0.250	0.254	ug	101	1.4	SW846 VOST
Ethylbenzene	0.250	0.218	ug	87		SW846 VOST
	0.250	0.223	ug	89	2.4	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorobutadiene	0.250	0.184	ug	74		SW846 VOST
	0.250	0.191	ug	76	3.6	SW846 VOST
2-Hexanone	1.00	0.575	ug	57		SW846 VOST
	1.00	0.674	ug	67	16	SW846 VOST
Iodomethane	0.250	0.229	ug	92		SW846 VOST
	0.250	0.231	ug	92	0.65	SW846 VOST
Isopropylbenzene	0.250	0.226	ug	90		SW846 VOST
	0.250	0.228	ug	91	0.92	SW846 VOST
p-Isopropyltoluene	0.250	0.233	ug	93		SW846 VOST
	0.250	0.225	ug	90	3.3	SW846 VOST
Methylene chloride	0.250	0.207	ug	83		SW846 VOST
	0.250	0.209	ug	84	0.98	SW846 VOST
4-Methyl-2-pentanone	1.00	0.683	ug	68		SW846 VOST
	1.00	0.759	ug	76	10	SW846 VOST
Naphthalene	0.250	0.190	ug	76		SW846 VOST
	0.250	0.200	ug	80	5.3	SW846 VOST
n-Propylbenzene	0.250	0.234	ug	94		SW846 VOST
	0.250	0.228	ug	91	2.8	SW846 VOST
Styrene	0.250	0.182	ug	73		SW846 VOST
	0.250	0.189	ug	75	3.8	SW846 VOST
1,1,1,2-Tetrachloroethane	0.250	0.156	ug	63		SW846 VOST
	0.250	0.165	ug	66	5.4	SW846 VOST
1,1,2,2-Tetrachloroethane	0.250	0.141	ug	57		SW846 VOST
	0.250	0.149	ug	60	5.2	SW846 VOST
Tetrachloroethene	0.250	0.223	ug	89		SW846 VOST
	0.250	0.224	ug	90	0.54	SW846 VOST
Toluene	**0.250**	**0.217**	**ug**	**87**		**SW846 VOST**
	0.250	**0.217**	**ug**	**87**	**0.40**	**SW846 VOST**
1,2,3-Trichlorobenzene	0.250	0.182	ug	73		SW846 VOST
	0.250	0.194	ug	78	6.7	SW846 VOST
1,2,4-Trichloro-benzene	0.250	0.173	ug	69		SW846 VOST
	0.250	0.191	ug	76	9.7	SW846 VOST
1,1,1-Trichloroethane	0.250	0.247	ug	99		SW846 VOST
	0.250	0.245	ug	98	0.56	SW846 VOST
1,1,2-Trichloroethane	0.250	0.159	ug	64		SW846 VOST
	0.250	0.167	ug	67	4.7	SW846 VOST
Trichloroethene	**0.250**	**0.237**	**ug**	**95**		**SW846 VOST**
	0.250	**0.241**	**ug**	**96**	**1.5**	**SW846 VOST**
Trichlorofluoromethane	0.250	0.244	ug	98		SW846 VOST
	0.250	0.242	ug	97	0.70	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030169 **Work Order #...:** H2RM41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D070000-054 H2RM41AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2,3-Trichloropropane	0.250	0.128	ug	51		SW846 VOST
	0.250	0.135	ug	54	5.2	SW846 VOST
1,2,4-Trimethylbenzene	0.250	0.227	ug	91		SW846 VOST
	0.250	0.229	ug	91	0.65	SW846 VOST
1,3,5-Trimethylbenzene	0.250	0.235	ug	94		SW846 VOST
	0.250	0.231	ug	93	1.4	SW846 VOST
Vinyl chloride	0.250	0.262	ug	105		SW846 VOST
	0.250	0.260	ug	104	0.67	SW846 VOST
m-Xylene & p-Xylene	0.500	0.439	ug	88		SW846 VOST
	0.500	0.444	ug	89	1.0	SW846 VOST
o-Xylene	0.250	0.202	ug	81		SW846 VOST
	0.250	0.208	ug	83	2.7	SW846 VOST
Xylenes (total)	0.750	0.641	ug	86		SW846 VOST
	0.750	0.651	ug	87	1.6	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(50 - 134)
	80	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
	79	(50 - 134)
Toluene-d8	73	(57 - 127)
	75	(57 - 127)
Bromofluorobenzene	64	(50 - 125)
	64	(50 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Data File: /chem/gcms/mx.i/X040706.b/h2rm41ac.d
Report Date: 07-Apr-2006 10:18

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2rm41ac.d
Lab Smp Id: H2RM41AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 07-APR-2006 10:02
Operator : 22980 Inst ID: mx.i
Smp Info : H2RM41AC,1,3,,,LCS
Misc Info : X040706,8260B_LM,all.sub
Comment :
Method : /chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:33 chemist Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1307212	10.0000	
* 2 Chlorobenzene-d5	119	7.578	7.582	(1.000)	264393	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	302267	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.273	(0.880)	172830	7.77629	0.19441
$ 5 1,2-Dichloroethane-d4	65	4.555	4.553	(0.939)	133394	7.69984	0.19250
$ 6 Toluene-d8	98	6.252	6.250	(0.825)	950883	7.34571	0.18364
$ 7 4-Bromofluorobenzene	95	8.874	8.872	(0.826)	228665	6.38040	0.15951
M 8 1,2-Dichloroethene (total)	96				540085	17.4610	0.43653
M 9 Xylene (total)	106				1569742	25.6509	0.64127
10 Dichlorodifluoromethane	85	1.124	1.128	(0.232)	425206	10.2754	0.25688
11 Chloromethane (spcc)	50	1.252	1.262	(0.258)	673045	11.0515	0.27629
12 Vinyl Chloride (ccc)	62	1.337	1.335	(0.275)	497992	10.4793	0.26198
13 *1,3-Butadiene	39	1.367	1.369	(0.282)	512642	12.8459	0.32115
14 Bromomethane	94	1.580	1.590	(0.326)	172230	9.35138	0.23378
15 Chloroethane	64	1.665	1.669	(0.343)	251151	9.62221	0.24056
16 *Vinyl Bromide	106	1.817	1.825	(0.374)	224356	9.87603	0.24690
17 Trichlorofluoromethane	101	1.884	1.888	(0.388)	507369	9.75926	0.24398
18 *2-Chloropropane	43	2.207	2.208	(0.455)	816451	10.0901	0.25225
19 1,1-Dichloroethene (ccc)	96	2.328	2.326	(0.480)	265216	10.0784	0.25196
20 *Freon 113	151	2.347	2.351	(0.484)	205353	8.79466	0.21987

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
21 Acetone	43	2.371	2.381	(0.489)	94567	51.0771	1.2769
22 *Iodomethane	142	2.438	2.442	(0.502)	302348	9.17105	0.22928
23 Carbon Disulfide	76	2.493	2.497	(0.514)	1038705	10.4262	0.26066
24 *2-propanol	45	2.554	2.537	(0.526)	37198	171.761	4.2940
25 *Acetonitrile	40	2.608	2.610	(0.537)	29471	83.2976	2.0824
26 Methylene Chloride	84	2.748	2.746	(0.566)	167526	8.28913	0.20723
27 *t-butanol	59	2.876	2.884	(0.593)	57853	239.305	5.9826
28 *Acrylonitrile	53	2.955	2.959	(0.609)	273377	105.250	2.6312(R)
29 trans-1,2-Dichloroethene	96	2.992	2.989	(0.616)	283583	8.89047	0.22226
30 *MTBE	73	2.992	3.005	(0.616)	17914	0.63519	0.015880
31 *Hexane	57	3.247	3.255	(0.669)	1556241	24.1791	0.60448
32 1,1-Dichloroethane (spcc)	63	3.350	3.354	(0.690)	597176	9.43596	0.23590
33 *Vinyl Acetate	86	3.411	3.421	(0.703)	21837	14.6859	0.36715
34 2,2-Dichloropropane	77	3.849	3.853	(0.793)	356584	6.21440	0.15536(R)
35 cis 1,2-Dichloroethene	96	3.855	3.859	(0.794)	256501	8.57058	0.21426
36 2-Butanone	43	3.874	3.871	(0.798)	65858	22.8048	0.57012
37 Bromochloromethane	128	4.056	4.054	(0.836)	59860	7.60668	0.19017
38 *THF	42	4.105	4.109	(0.846)	38574	21.7970	0.54492
39 Chloroform (ccc)	83	4.135	4.139	(0.852)	453038	9.11843	0.22796
40 1,1,1-Trichloroethane	97	4.287	4.291	(0.883)	548209	9.86947	0.24674
41 Carbon Tetrachloride	117	4.439	4.437	(0.915)	447832	9.54348	0.23859
42 1,1-Dichloropropene	75	4.433	4.437	(0.914)	532475	10.2882	0.25720
43 Benzene	78	4.610	4.607	(0.950)	1223893	9.24466	0.23112
44 1,2-Dichloroethane	62	4.616	4.620	(0.951)	198113	8.89265	0.22232
45 Trichloroethene	130	5.176	5.173	(1.066)	336885	9.48344	0.23709
46 1,2-Dichloropropane (ccc)	63	5.358	5.362	(1.104)	245734	8.79879	0.21997
47 *Methyl Methacrylate	41	5.480	5.481	(1.129)	70123	8.06355	0.20159
48 Dibromomethane	93	5.461	5.459	(1.125)	57006	7.68965	0.19224
49 Bromodichloromethane	83	5.607	5.605	(1.155)	236065	8.51105	0.21278
50 *2-Chloroethylvinylether	63	6.003	5.877	(1.237)	1523	0.25397	0.0063494
51 cis-1,3-Dichloropropene	75	6.003	6.007	(1.237)	260666	8.02486	0.20062
52 4-Methyl-2-pentanone	43	6.149	6.147	(1.267)	189091	27.3397	0.68349(R)
53 Toluene (ccc)	91	6.313	6.311	(0.833)	1341374	8.66122	0.21653
54 trans-1,3-Dichloropropene	75	6.508	6.506	(0.859)	169546	6.24626	0.15616(R)
55 *Ethyl Methacrylate	69	6.605	6.607	(0.872)	91488	6.44334	0.16108
56 1,1,2-Trichloroethane	97	6.672	6.670	(0.880)	77788	6.35855	0.15896(R)
57 Tetrachloroethene	164	6.818	6.816	(0.900)	296570	8.91238	0.22281
58 1,3-Dichloropropane	76	6.824	6.822	(0.900)	153428	6.57467	0.16437(R)
59 2-Hexanone	43	6.903	6.907	(0.911)	119026	22.9991	0.57498
60 Chlorodibromomethane	129	7.037	7.035	(0.929)	97729	6.44772	0.16119(R)
61 1,2-Dibromoethane	107	7.134	7.138	(0.941)	66873	5.86958	0.14674(R)
62 Chlorobenzene (spcc)	112	7.609	7.607	(1.004)	621133	7.81289	0.19532(R)
63 1,1,1,2-Tetrachloroethane	131	7.688	7.686	(1.014)	163790	6.25995	0.15650(R)
64 Ethylbenzene (ccc)	106	7.718	7.716	(1.018)	476704	8.71851	0.21796
65 m&p-Xylene	106	7.834	7.838	(1.034)	1125560	17.5652	0.43913
66 o-Xylene	106	8.248	8.251	(1.088)	444182	8.08571	0.20214
67 Styrene	104	8.266	8.264	(1.091)	571844	7.26184	0.18154

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
	68 Bromoform (spcc)	173	8.461	8.464	(1.116)	41350	5.64470	0.14112(R)
	69 Isopropylbenzene	105	8.692	8.689	(1.147)	1592463	9.03845	0.22596
	70 *cis-1,4-dichloro-2-butene	88	8.759	8.754	(1.156)	17270	5.12246	0.12806
	71 Bromobenzene	156	9.069	9.067	(1.197)	174853	7.02546	0.17564
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.063	9.061	(1.196)	54923	5.65443	0.14136(R)
	73 1,2,3-Trichloropropane	110	9.118	9.115	(0.849)	14427	5.11282	0.12782(R)
	74 *trans-1,4-dichloro-2-butene	53	9.142	9.143	(0.851)	16309	5.43543	0.13588
	75 n-Propylbenzene	91	9.245	9.243	(0.861)	1949852	9.37746	0.23444
	76 2-Chlorotoluene	91	9.355	9.353	(0.871)	835903	7.83373	0.19584
	77 1,3,5-Trimethylbenzene	105	9.507	9.511	(0.885)	1055504	9.39491	0.23487
	78 4-Chlorotoluene	91	9.513	9.511	(0.886)	909250	8.08094	0.20202
	79 tert-Butylbenzene	119	10.036	10.034	(0.934)	1030982	8.69175	0.21729
	80 1,2,4-Trimethylbenzene	105	10.121	10.125	(0.942)	886194	9.08710	0.22718
	81 sec-Butylbenzene	105	10.438	10.435	(0.972)	1642947	9.53625	0.23841
	82 1,3-Dichlorobenzene	146	10.614	10.612	(0.988)	364691	7.16105	0.17903
	83 p-Isopropyltoluene	119	10.736	10.734	(0.999)	1280420	9.31652	0.23291
	84 1,4-Dichlorobenzene	146	10.784	10.788	(1.004)	324981	7.04618	0.17615
	85 1,2-Dichlorobenzene	146	11.435	11.433	(1.065)	227304	6.21781	0.15544(R)
	86 n-Butylbenzene	91	11.472	11.470	(1.068)	1339049	11.0787	0.27697
	87 1,2-Dibromo-3-chloropropane	157	12.597	12.595	(1.173)	4566	3.03313	0.075828(R)
	88 1,2,4-Trichlorobenzene	180	13.674	13.678	(1.273)	124754	6.93824	0.17346(R)
	89 Hexachlorobutadiene	225	13.905	13.909	(1.294)	218947	7.36331	0.18408
	90 Napthalene	128	13.948	13.946	(1.298)	99684	7.60077	0.19002
	91 1,2,3-Trichlorobenzene	180	14.234	14.232	(1.325)	84468	7.27619	0.18190
M	92 *1,4-dichloro-2-butene(total)	53				33579	10.5579	0.26395

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

N 4/7/06

Data File: /chem/gcms/mx.i/X040706.b/h2rm41ac.d
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STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2rm41ac.d
Lab Smp Id: H2RM41AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,all.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1307212	13.75
2 Chlorobenzene-d5	214194	107097	428388	264393	23.44
3 1,4 Dichlorobenze	242601	121300	485202	302267	24.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.05
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.04

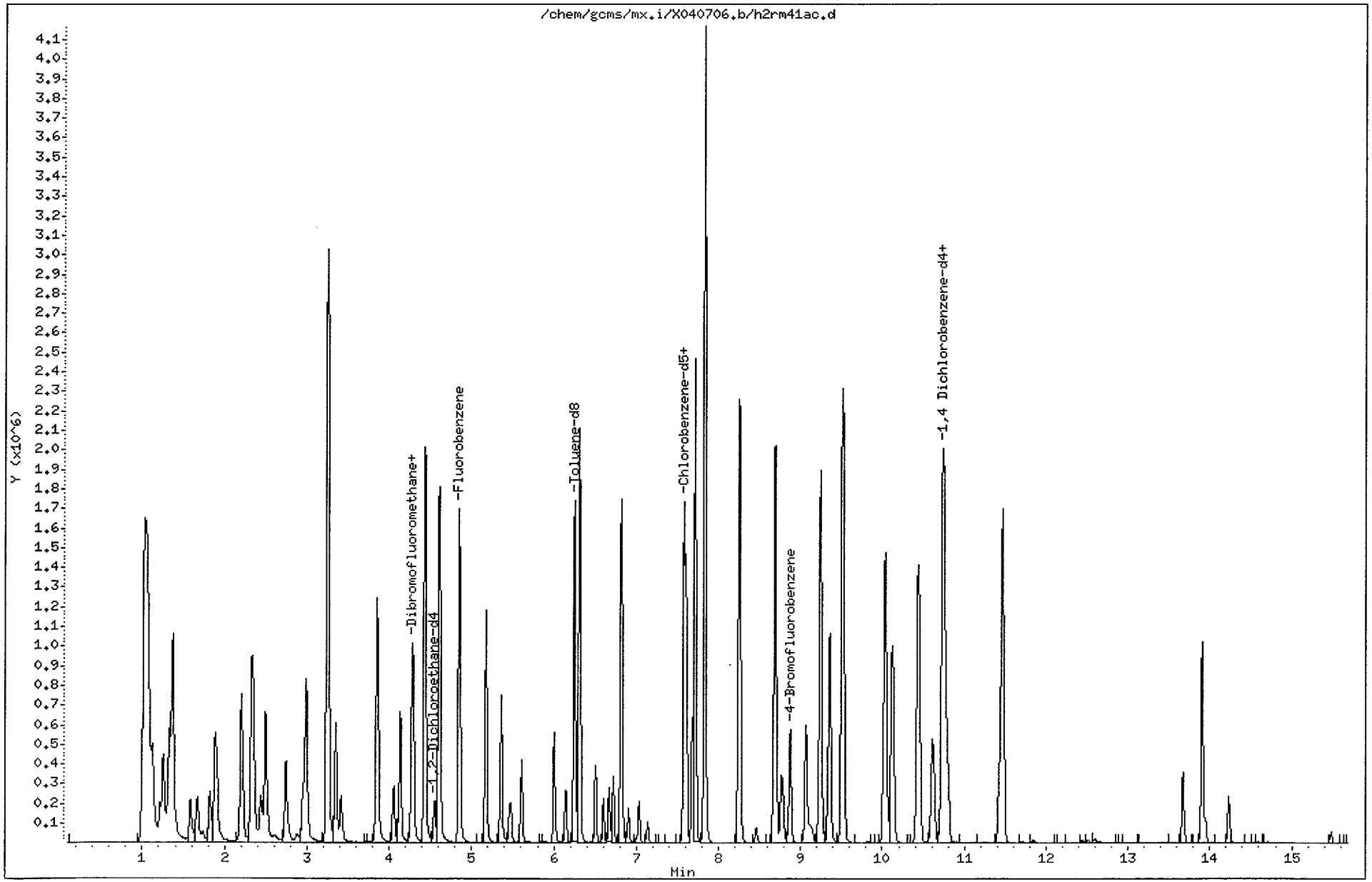
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcms/mx.i/X040706.b/h2rm41ac.d
Date : 07-APR-2006 10:02
Client ID: INTRA-LAB CHECK
Sample Info: H2RM41AC,1,3,,,LCS

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /chem/gcms/mx.i/X040706.b/h2rm41ad.d
Report Date: 07-Apr-2006 10:49

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X040706.b/h2rm41ad.d
Lab Smp Id: H2RM41AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 07-APR-2006 10:33
Operator : 22980 Inst ID: mx.i
Smp Info : H2RM41AD,1,3,,,LCSD
Misc Info : X040706,8260B_LM,all.sub
Comment :
Method : /chem/gcms/mx.i/X040706.b/8260B_LM.m
Meth Date : 07-Apr-2006 09:33 chemist Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.853	4.851	(1.000)	1284100	10.0000	
* 2 Chlorobenzene-d5	119	7.578	7.582	(1.000)	259320	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.746	(1.000)	309253	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.273	(0.880)	173760	7.95882	0.19897
$ 5 1,2-Dichloroethane-d4	65	4.549	4.553	(0.937)	135164	7.94243	0.19856
$ 6 Toluene-d8	98	6.252	6.250	(0.825)	958163	7.54676	0.18867
$ 7 4-Bromofluorobenzene	95	8.874	8.872	(0.826)	236333	6.44541	0.16114
M 8 1,2-Dichloroethene (total)	96				540427	17.7943	0.44486
M 9 Xylene (total)	106				1563147	26.0570	0.65143
10 Dichlorodifluoromethane	85	1.124	1.128	(0.232)	399453	9.82680	0.24567
11 Chloromethane (spcc)	50	1.252	1.262	(0.258)	620764	10.3765	0.25941
12 Vinyl Chloride (ccc)	62	1.337	1.335	(0.275)	485915	10.4092	0.26023
13 *1,3-Butadiene	39	1.367	1.369	(0.282)	500545	12.7685	0.31921
14 Bromomethane	94	1.586	1.590	(0.327)	166622	9.20972	0.23024
15 Chloroethane	64	1.665	1.669	(0.343)	250936	9.78702	0.24468
16 *Vinyl Bromide	106	1.817	1.825	(0.374)	217276	9.73651	0.24341
17 Trichlorofluoromethane	101	1.884	1.888	(0.388)	494882	9.69040	0.24226
18 *2-Chloropropane	43	2.207	2.208	(0.455)	792536	9.97083	0.24927
19 1,1-Dichloroethene (ccc)	96	2.322	2.326	(0.479)	254788	9.85637	0.24641
20 *Freon 113	151	2.347	2.351	(0.484)	204118	8.89915	0.22248

Data File: /chem/gcms/mx.i/X040706.b/h2rm41ad.d
Report Date: 07-Apr-2006 10:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
21 Acetone	43	2.377	2.381	(0.490)	92382	50.7950	1.2699
22 *Iodomethane	142	2.438	2.442	(0.502)	298962	9.23158	0.23079
23 Carbon Disulfide	76	2.493	2.497	(0.514)	1006509	10.2849	0.25712
24 *2-propanol	45	2.547	2.537	(0.525)	26615	128.467	3.2117
25 *Acetonitrile	40	2.614	2.610	(0.539)	19837	57.0774	1.4269
26 Methylene Chloride	84	2.742	2.746	(0.565)	166195	8.37127	0.20928
27 *t-butanol	59	2.876	2.884	(0.593)	38717	170.222	4.2555
28 *Acrylonitrile	53	2.955	2.959	(0.609)	274230	107.478	2.6870(R)
29 trans-1,2-Dichloroethene	96	2.992	2.989	(0.616)	280089	8.93897	0.22347
30 *MTBE	73	2.992	3.005	(0.616)	20167	0.72793	0.018198
31 *Hexane	57	3.247	3.255	(0.669)	1538055	24.3267	0.60817
32 1,1-Dichloroethane (spcc)	63	3.350	3.354	(0.690)	604234	9.71933	0.24298
33 *Vinyl Acetate	86	3.411	3.421	(0.703)	21491	14.7134	0.36783
34 2,2-Dichloropropane	77	3.849	3.853	(0.793)	364722	6.47065	0.16177(R)
35 cis 1,2-Dichloroethene	96	3.855	3.859	(0.794)	260338	8.85534	0.22138
36 2-Butanone	43	3.874	3.871	(0.798)	76477	26.9582	0.67395
37 Bromochloromethane	128	4.056	4.054	(0.836)	59351	7.67778	0.19194
38 *THF	42	4.105	4.109	(0.846)	37436	21.5347	0.53837
39 Chloroform (ccc)	83	4.135	4.139	(0.852)	459644	9.41791	0.23545
40 1,1,1-Trichloroethane	97	4.287	4.291	(0.883)	535502	9.81424	0.24536
41 Carbon Tetrachloride	117	4.439	4.437	(0.915)	441754	9.58341	0.23958
42 1,1-Dichloropropene	75	4.433	4.437	(0.914)	515882	10.1470	0.25368
43 Benzene	78	4.610	4.607	(0.950)	1202029	9.24294	0.23107
44 1,2-Dichloroethane	62	4.616	4.620	(0.951)	200683	9.17018	0.22925
45 Trichloroethene	130	5.176	5.173	(1.066)	335906	9.62607	0.24065
46 1,2-Dichloropropane (ccc)	63	5.358	5.362	(1.104)	249719	9.10243	0.22756
47 *Methyl Methacrylate	41	5.480	5.481	(1.129)	73498	8.60369	0.21509
48 Dibromomethane	93	5.461	5.459	(1.125)	57510	7.89727	0.19743
49 Bromodichloromethane	83	5.607	5.605	(1.155)	243650	8.94263	0.22356
50 *2-Chloroethylvinylether	63	5.869	5.877	(1.209)	261	0.04440	0.0011100
51 cis-1,3-Dichloropropene	75	6.003	6.007	(1.237)	268879	8.42669	0.21067
52 4-Methyl-2-pentanone	43	6.143	6.147	(1.266)	206243	30.3563	0.75891
53 Toluene (ccc)	91	6.313	6.311	(0.833)	1320965	8.69631	0.21741
54 trans-1,3-Dichloropropene	75	6.508	6.506	(0.859)	180020	6.76188	0.16905(R)
55 *Ethyl Methacrylate	69	6.599	6.607	(0.871)	98426	7.06761	0.17669
56 1,1,2-Trichloroethane	97	6.672	6.670	(0.880)	79979	6.66556	0.16664(R)
57 Tetrachloroethene	164	6.818	6.816	(0.900)	292474	8.96123	0.22403
58 1,3-Dichloropropane	76	6.824	6.822	(0.900)	157573	6.88439	0.17211(R)
59 2-Hexanone	43	6.903	6.907	(0.911)	136947	26.9797	0.67449
60 Chlorodibromomethane	129	7.031	7.035	(0.928)	101962	6.85860	0.17146(R)
61 1,2-Dibromoethane	107	7.134	7.138	(0.941)	69578	6.22652	0.15566(R)
62 Chlorobenzene (spcc)	112	7.609	7.607	(1.004)	636409	8.16165	0.20404
63 1,1,1,2-Tetrachloroethane	131	7.688	7.686	(1.014)	169544	6.60663	0.16516(R)
64 Ethylbenzene (ccc)	106	7.718	7.716	(1.018)	478836	8.92884	0.22322
65 m&p-Xylene	106	7.834	7.838	(1.034)	1115487	17.7486	0.44371
66 o-Xylene	106	8.248	8.251	(1.088)	447660	8.30845	0.20771
67 Styrene	104	8.260	8.264	(1.090)	582893	7.54697	0.18867

Data File: /chem/gcms/mx.i/X040706.b/h2rm41ad.d
Report Date: 07-Apr-2006 10:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
68 Bromoform (spcc)	173	8.467	8.464	(1.117)	42691	5.94172	0.14854
69 Isopropylbenzene	105	8.692	8.689	(1.147)	1576466	9.12271	0.22807
70 *cis-1,4-dichloro-2-butene	88	8.753	8.754	(1.155)	17701	5.35304	0.13382
71 Bromobenzene	156	9.069	9.067	(1.197)	181093	7.41853	0.18546
72 1,1,2,2-Tetrachloroethane(sp)	83	9.063	9.061	(1.196)	56726	5.95433	0.14886(R)
73 1,2,3-Trichloropropane	110	9.118	9.115	(0.849)	15542	5.38344	0.13458(R)
74 *trans-1,4-dichloro-2-butene	53	9.148	9.143	(0.852)	18227	5.93736	0.14843
75 n-Propylbenzene	91	9.239	9.243	(0.860)	1940004	9.11934	0.22798
76 2-Chlorotoluene	91	9.355	9.353	(0.871)	850846	7.79364	0.19484
77 1,3,5-Trimethylbenzene	105	9.513	9.511	(0.886)	1064366	9.25978	0.23149
78 4-Chlorotoluene	91	9.513	9.511	(0.886)	929595	8.07513	0.20188
79 tert-Butylbenzene	119	10.036	10.034	(0.934)	1029665	8.48456	0.21211
80 1,2,4-Trimethylbenzene	105	10.121	10.125	(0.942)	912633	9.14680	0.22867
81 sec-Butylbenzene	105	10.438	10.435	(0.972)	1631421	9.25544	0.23139
82 1,3-Dichlorobenzene	146	10.614	10.612	(0.988)	374897	7.19517	0.17988
83 p-Isopropyltoluene	119	10.736	10.734	(0.999)	1267546	9.01451	0.22536
84 1,4-Dichlorobenzene	146	10.791	10.788	(1.005)	340583	7.21765	0.18044
85 1,2-Dichlorobenzene	146	11.429	11.433	(1.064)	239901	6.41415	0.16035(R)
86 n-Butylbenzene	91	11.466	11.470	(1.067)	1325683	10.7204	0.26801
87 1,2-Dibromo-3-chloropropane	157	12.597	12.595	(1.173)	5202	3.37736	0.084434(R)
88 1,2,4-Trichlorobenzene	180	13.674	13.678	(1.273)	140637	7.64488	0.19112
89 Hexachlorobutadiene	225	13.905	13.909	(1.294)	232174	7.63178	0.19079
90 Napthalene	128	13.948	13.946	(1.298)	107502	8.01175	0.20029
91 1,2,3-Trichlorobenzene	180	14.234	14.232	(1.325)	92390	7.77881	0.19447
M 92 *1,4-dichloro-2-butene(total)	53				35928	11.2904	0.28226

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

4/7/07

Data File: /chem/gcms/mx.i/X040706.b/h2rm41ad.d
Report Date: 07-Apr-2006 10:49

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h2rm41ad.d
Lab Smp Id: H2RM41AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mx.i/X040706.b/8260B_LM.m
Misc Info: X040706,8260B_LM,all.sub

Calibration Date: 07-APR-2006
Calibration Time: 09:16
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1149191	574596	2298382	1284100	11.74
2 Chlorobenzene-d5	214194	107097	428388	259320	21.07
3 1,4 Dichlorobenze	242601	121300	485202	309253	27.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.05
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.05
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.04

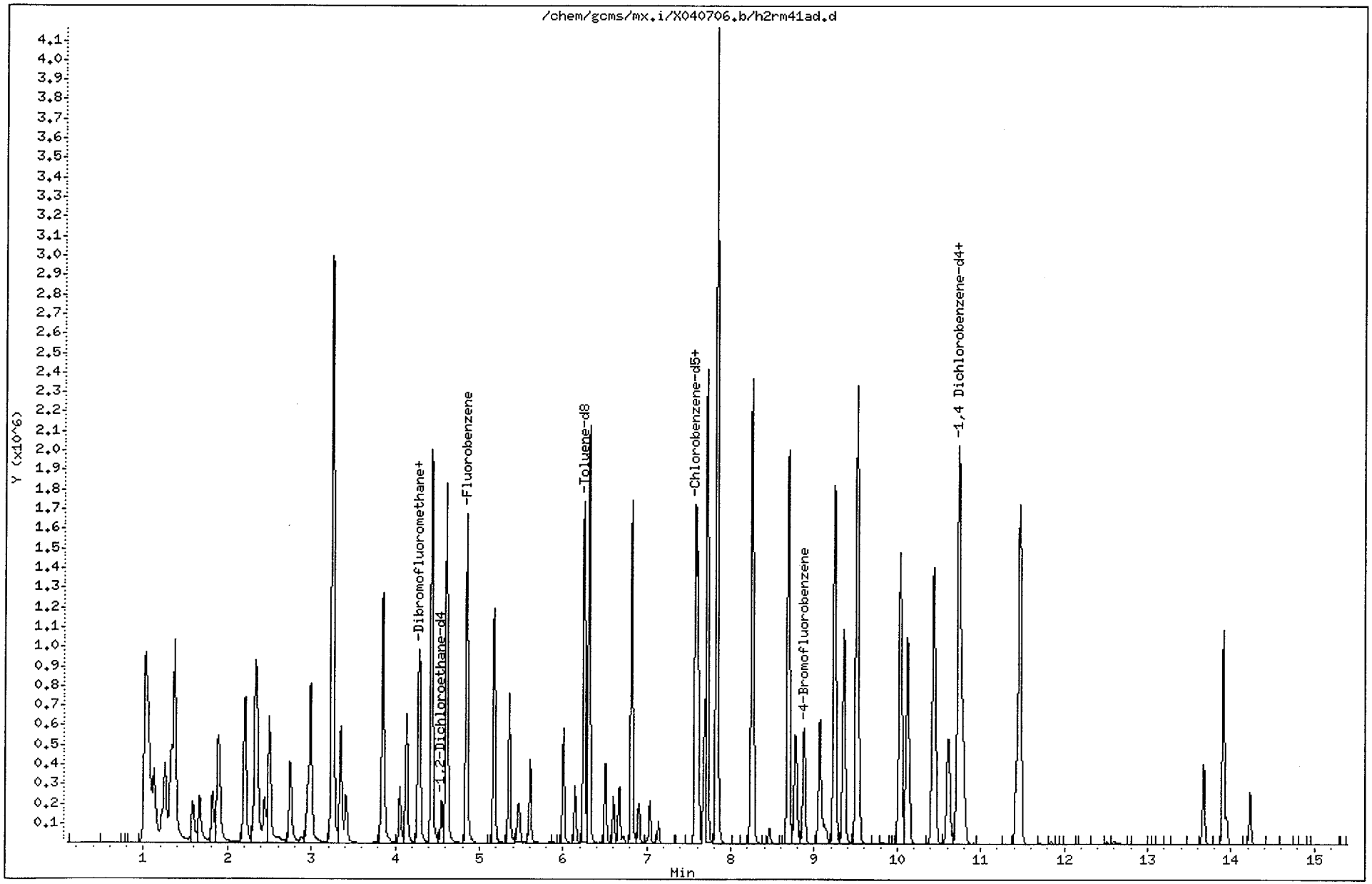
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcms/mx.i/X040706.b/h2rm41ad.d
Date : 07-APR-2006 10:33
Client ID: INTRA-LAB CHECK
Sample Info: H2RM41AD,1,3,,,LCSD

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Miscellaneous Data

STL Knoxville GC/MS VOST Data Review / Narrative Checklist **LOT/Project #** H6D030169 1885
Method: VOST Analysis - KNOX-MS-0011, Rev. 5

Instrument:	MZ	MX	MX			
Scanned File Names:	Z032406I	X021506I	X050306			
	Z040506	X040705	X040706R			
	Z040706		X050906			

Review Items **A. Tune / Calibration**	**N/A**	**Yes**	**No**	**Why is data reportable?**	**2nd √**
1. Were all samples injected within 12 hr of BFB?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results					
1. Were all special project requirements met?		✓			✓
2. Were prep/dilution factors & header information verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Sample analyses done within preparation and analytical holding time (HT)? *If no, list samples:* _____		✓		*[ht1] HT expired upon receipt.* *[ht2] Client requested analysis after HT expired.**	✓
5. Are surrogates and internal standards within QC limits? *If no, list samples and reason (e.g.,* **sur1***):* Sample: H3, 12, 29, (1 sur) Reason: Sample: Reason:			✓	[sur7] Obvious matrix interference. **[sur12] Surr.%R high and all targets ND.** **[sur13] Reanalysis not possible.** **[sur14] Entire sample consumed.** [isb1] Sample bracketed by acceptable runs. [isb4] IS and associated surr. %R out, but sample bracketed by acceptable runs.	✓
6. Are internal standards <0.5min of last CCAL?		✓			✓
7. Were positive hits evaluated using qualitative identification criteria and technical judgement?					✓
8. Are positive results within calibration range? *If no, list samples:* H3, 5, 23, 25, 27			✓	[vost] Conc. of several compounds > calibration range. Dilutions not possible due to the nature of the analysis.	✓
11. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?		✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
12. Have alternate hits and manual integrations been verified as correct?	✓				✓
C. Preparation/Matrix QC					
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:* _____		✓		**[lcs3] LCS %R high and all analyte(s) were <RL in associated samples.** **[lcs4] Reanalysis not possible.**	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank surrogate recoveries within QC limits?		✓		**[mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.*** **[mb7] Entire sample consumed.**	✓
4. Are all analytes present in the method blank ≤ RL? *If no, list blank ID:* _____		✓		[mb2] Common lab contaminant <5x RL.* **[mb3] No analyte > RL in associated samples.*** **[mb4] Sample results > 20x higher than blank.** **[mb7] Reanalysis not possible.**	✓

* Such action must be taken in consultation with client.

STL Knoxville GC/MS VOST Data Review / Narrative Checklist **LOT/Project #** H6D030169 1886
Method: VOST Analysis - KNOX-MS-0011, Rev. 5

Review Items D. Other	N/A	Yes	No	Why is data reportable?	2nd √
1. Are all nonconformances documented appropriately and copy included with deliverable?		✓		08-06129	✓
2. Are the correct scanned file names listed at the top of the data review checklist?		✓			✓
3. Were the standards scanned properly with runlogs?		✓			✓
4. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
5. Was a narrative prepared and all deviations noted?		✓			✓

Analyst: [signature]	Date: 4/19/06	2nd Level Reviewer: [signature]	Date: 04/24/06
Comments:		**Comments:**	
Batch QC for Condensates (MS/MSD) outside Limits Batch 6095253 BT, CLBZ			
5/11/06: See NCM # 08-06213 for discussion of the following:			
• 5 samples were over the cal range for PCE/CLBZ (analyzed 4/7/06)			
• An extended curve analyzed on 5/3/06 for these two analytes			
• the 5 samples were requantitated against the new curve (reported as -2AA)			
• A VOST tube was spiked in the upper range of the new curve & included in the "Miscellaneous" section of data pkg.			
[signature] 5/11/06		[signature] 05/11/06 (for re-work 5 samples)	

* Such action must be taken in consultation with client.

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/05/06
Time: 11:59:17

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
					computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____

Concentrationist: _____
_____

Reviewer/Date: _____ / 0/00/00

QC BATCH: 6095253

PREP DATE: 4/05/06 12:00
COMP DATE: 4/05/06 24:00

Volatile Organics, GC/MS (8260B)
PURGE AND TRAP - 25 mL purge (Waters)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/18/06	H6C150102-001 **H0857-2-AA**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/18/06	H6C150102-002 **H0858-2-AA**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-002 6095149 **H2GKV-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-005 6095149 **H2GK2-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-018 6095149 **H2GMA-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-019 6095149 **H2GMD-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-009 6095149 **H2G9H-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/05/06
Time: 11:59:17

QC BATCH: 6095253

PREP DATE: 4/05/06 12:00
COMP DATE: 4/05/06 24:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030169-009 **H2G9H-1-ACX**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-020 **H2HAD-1-AA**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-020 **H2HAD-1-ACX**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-031 **H2HCR-1-AA**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-031 **H2HCR-1-ACX**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-036 **H2HC1-1-AA**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-002 **H2HPA-1-AA**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-002 **H2HPA-1-ACS**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-002 **H2HPA-1-ADD**	6095149 D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-007 **H2HQT-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/05/06
Time: 11:59:17

QC BATCH: 6095253

PREP DATE: 4/05/06 12:00
COMP DATE: 4/05/06 24:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030205-008 **H2HQW-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-009 **H2HQ0-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-011 **H2HRA-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-012 **H2HRF-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-013 **H2HRH-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H6D050000-253 **H2MQQ-1-AAB**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H6D050000-253 **H2MQQ-1-ACC**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 24

STL Knoxville
GCMS Volatiles
Condensate Vial Volume Calculation Worksheet

Lot Number	WO Number	Initial Weight (gr)	Initials/ Date	Final Weight (gr)	Vial Volume (gr=ml)	Initials/ Date
D030104	H2GMA	69.77	MT 4/4/06	26.70	43.1	MT 4/6/06
↓	H2GMD	69.69	↓	26.04	43.7	↓
D030169	H2G9HIAA	68.78	↓	26.67	42.1	↓
↓	HADIAA	69.03	↓	26.39	42.6	↓
↓	HCRIAA	69.37	↓	26.36	43.0	↓
↓	HC1IAA	69.01	↓	26.75	42.3	↓
↓	H9HIAC	68.45	↓	26.14	42.31	↓
↓	HADIAC	69.05	↓	26.80	42.3	↓
↓	HCRIAC	69.25	↓	26.50	42.8	↓
VA6 D040336	H2K8C1AA	103.34	4/6/06	39.57	63.77	MT 4/7/06
↓	8X	103.72	↓	39.74	63.98	↓
↓	9L	102.90	↓	39.26	63.64	↓
↓	H2LADIAA	102.48	↓	39.15	63.33	↓

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/06/06
Time: 5:03:59

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

****
* *
* **QC BATCH: 6096033** *
* *
****

PREP DATE: 4/06/06 7:00
COMP DATE: 4/06/06 19:00

Reviewer/Date: _____ / 0/00/00

Volatile Organic Sampling Train (VOST-0031/5041A)
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJT	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030169-004 **H2G89-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-006 **H2G9D-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-008 **H2G9G-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-010 **H2G9J-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-011 **H2G9L-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-015 **H2G91-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-017 **H2G98-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/06/06
Time: 5:03:59

QC BATCH: 6096033

PREP DATE: 4/06/06 7:00
COMP DATE: 4/06/06 19:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030169-019 **H2HAA-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-021 **H2HA7-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-022 **H2HCA-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-026 **H2HCL-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-028 **H2HCN-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-030 **H2HCQ-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-032 **H2HCV-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-033 **H2HCW-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-034 **H2HCX-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-035 **H2HC0-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/06/06
Time: 5:03:59

QC BATCH: 6096033

PREP DATE: 4/06/06 7:00
COMP DATE: 4/06/06 19:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030169-037 **H2HC2-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-038 **H2HC4-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-045 **H2KH4-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H6D060000-033 **H2N44-1-AA**B		88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H6D060000-033 **H2N44-1-AC**C		88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H6D060000-033 **H2N44-1-AD**L	R	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
↕

NUMBER OF WORK ORDERS IN BATCH: 23

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/11/06
Time: 10:19:12

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

****
* *
* **QC BATCH: 6097054** *
* *
****

PREP DATE: 4/07/06 9:00
COMP DATE: 4/07/06 21:00

Reviewer/Date: _____ / 0/00/00

Volatile Organic Sampling Train (VOST-0031/5041A)
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030169-003 **H2G87-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-005 **H2G9A-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-007 **H2G9F-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-014 **H2G9W-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-016 **H2G97-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-018 **H2G99-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-023 **H2HCD-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/11/06
Time: 10:19:12

QC BATCH: 6097054

PREP DATE: 4/07/06 9:00
COMP DATE: 4/07/06 21:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030169-024 **H2HCF-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-025 **H2HCG-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-027 **H2HCM-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-029 **H2HCP-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-039 **H2KHL-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-040 **H2KHR-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-041 **H2KHV-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-042 **H2KHW-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-043 **H2KHX-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-044 **H2KH1-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/11/06
Time: 10:19:12

QC BATCH: 6097054

PREP DATE: 4/07/06 9:00
COMP DATE: 4/07/06 21:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	0/00/00	H6D070000-054 **H2RM4-1-AAB**		88	Q9	AIR	**1** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H6D070000-054 **H2RM4-1-ACC**		88	Q9	AIR	**1** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H6D070000-054 **H2RM4-1-ADL**	R	88	Q9	AIR	**1** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
↕

NUMBER OF WORK ORDERS IN BATCH: 20

Data File: /var/chem/gcms/mx.i/X050906.b/vostspk.d
Report Date: 10-May-2006 09:01

VOST Tube spiked @ 6µg

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050906.b/vostspk.d
Lab Smp Id: VOSTSPK Client Smp ID: .opc not found
Inj Date : 09-MAY-2006 19:36
Operator : 063605 Inst ID: mx.i
Smp Info : VOSTSPK,1,3,,6ug Spike
Misc Info : X050906,clbz,clbz.sub
Comment :
Method : /var/chem/gcms/mx.i/X050906.b/clbz.m
Meth Date : 10-May-2006 09:00 wilesd Quant Type: ISTD
Cal Date : 03-MAY-2006 15:12 Cal File: tclp10.d
Als bottle: 1 QC Sample: 6ug Spike
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: clbz.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

05/10/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.851	4.852	(1.000)	1420440	10.0000	
* 2 Chlorobenzene-d5	119	7.588	7.589	(1.000)	320672	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.746	10.753	(1.000)	381226	10.0000	
57 Tetrachloroethene	164	6.828	6.829	(0.900)	8646666	191.156	4.7789(A)
62 Chlorobenzene (spcc)	112	7.619	7.614	(1.004)	15624775	147.288	3.6822(A)

pws/10/06

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcms/mx.i/X050906.b/vostspk.d
Report Date: 09-May-2006 19:52

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: vostspk.d
Lab Smp Id: VOSTSPK
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /chem/gcms/mx.i/X050906.b/clbz.m
Misc Info: X050906,clbz,clbz.sub

Calibration Date: 09-MAY-2006
Calibration Time: 17:34
Client Smp ID: .opc not found
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1474532	737266	2949064	1420440	-3.67
2 Chlorobenzene-d5	298122	149061	596244	320672	7.56
3 1,4 Dichlorobenze	319423	159712	638846	381226	19.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	-0.02
2 Chlorobenzene-d5	7.59	7.09	8.09	7.59	-0.01
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.75	-0.06

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.

Data File: /var/chem/gcms/mx.i/X050906.b/vostspk.d
Report Date: 10-May-2006 13:27

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: VOSTSPK
Level: LOW
Data Type: MS DATA
SpikeList File: tclp.spk
Sublist File: clbz.sub
Method File: /var/chem/gcms/mx.i/X050906.b/clbz.m
Misc Info: X050906,clbz,clbz.sub

Client SDG: X050906
Fraction: VOA
Client Smp ID: .opc not found
Operator: 063605
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
~~12 Vinyl Chloride (c~~	~~6.0000~~	~~0.0000~~	~~*~~	~~66-120~~
19 1,1-Dichloroethen	6.0000	0.0000	*	74-120
36 2-Butanone	DW 24.000	0.0000	*	39-138
39 Chloroform (ccc)	5-10-06 6.0000	0.0000	*	74-120
41 Carbon Tetrachlor	6.0000	0.0000	*	64-134
43 Benzene	6.0000	0.0000	*	74-120
44 1,2-Dichloroethane	6.0000	0.0000	*	70-125
~~45 Trichloroethene~~	~~6.0000~~	~~0.0000~~	~~*~~	~~76-120~~
57 Tetrachloroethene	6.0000	4.7789	79.65	74-120
62 Chlorobenzene (spc	6.0000	3.6822	61.37*	76-120

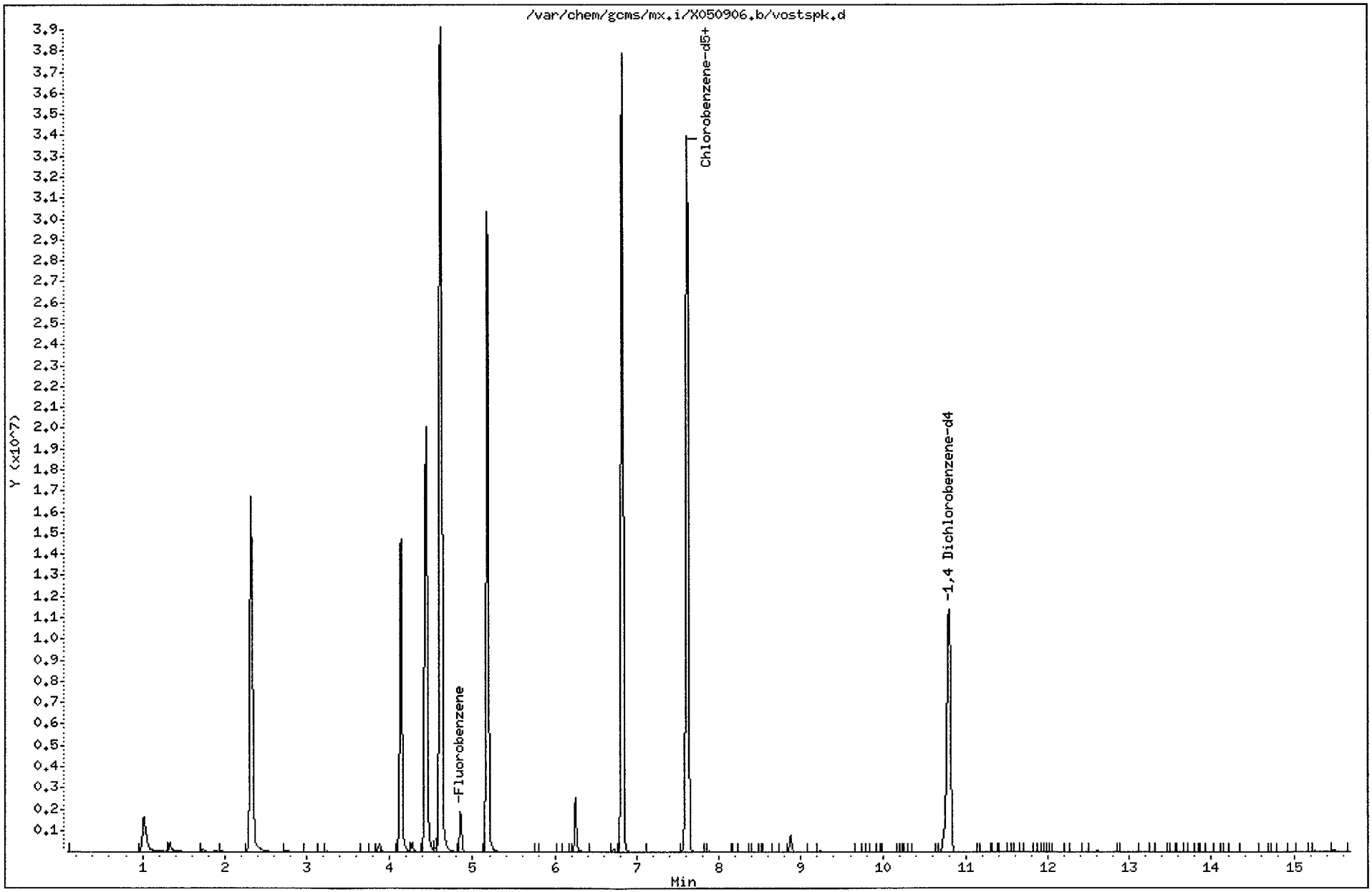
Data File: /var/chem/gcms/mx.i/X050906.b/vostspk.d
Date : 09-MAY-2006 19:36
Client ID: .opc not found
Sample Info: VOSTSPK,1,3,,6ug Spike

Instrument: mx.i

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/vostspk.d
Report Date: 09-May-2006 12:20

VOST TUBE SPIKED @ 12µg

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X050306.b/vostspk.d
Lab Smp Id: VOSTSPK
Client Smp ID: spk240 : 12µg
Inj Date : 03-MAY-2006 19:53
Operator : 60487
Inst ID: mx.i
Smp Info : VOSTSPK,1,3,,,spk240 = 12µg
Misc Info : X050306,8260B_LM,clbz.sub
Comment :
Method : /var/chem/gcms/mx.i/X050306.b/clbz.m
Meth Date : 09-May-2006 12:16 wilesd
Quant Type: ISTD
Cal Date : 03-MAY-2006 16:59
Cal File: tclp320.d
Als bottle: 26
QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: clbz.sub
Target Version: 3.50
Processing Host: qmidhp01

DW 5/8/06

Concentration Formula: Amt * DF * Uf * CpndVariable
Uf 0.02500 ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)	
* 1 Fluorobenzene	96	4.856	4.851	(1.000)	919986	10.0000		
* 2 Chlorobenzene-d5	119	7.594	7.582	(1.000)	222022	10.0000		
* 3 1,4 Dichlorobenzene-d4	152	10.757	10.740	(1.000)	249691	10.0000		
57 Tetrachloroethene	164	6.840	6.816	(0.901)	12102253	386.430	9.6607(A)	= 80%
62 Chlorobenzene (spcc)	112	7.618	7.607	(1.003)	22324420	303.948	7.5987(AM)	: 63%

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /var/chem/gcms/mx.i/X050306.b/vostspk.d
Report Date: 09-May-2006 12:20

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: vostspk.d
Lab Smp Id: VOSTSPK
Analysis Type: VOA
Quant Type: ISTD
Operator: 60487
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m
Misc Info: X050306,8260B_LM,clbz.sub

Calibration Date: 03-MAY-2006
Calibration Time: 15:12
Client Smp ID: spk240
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	954873	477436	1909746	919986	-3.65
2 Chlorobenzene-d5	176393	88196	352786	222022	25.87
3 1,4 Dichlorobenze	181219	90610	362438	249691	37.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.86	0.11
2 Chlorobenzene-d5	7.58	7.08	8.08	7.59	0.15
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.76	0.16

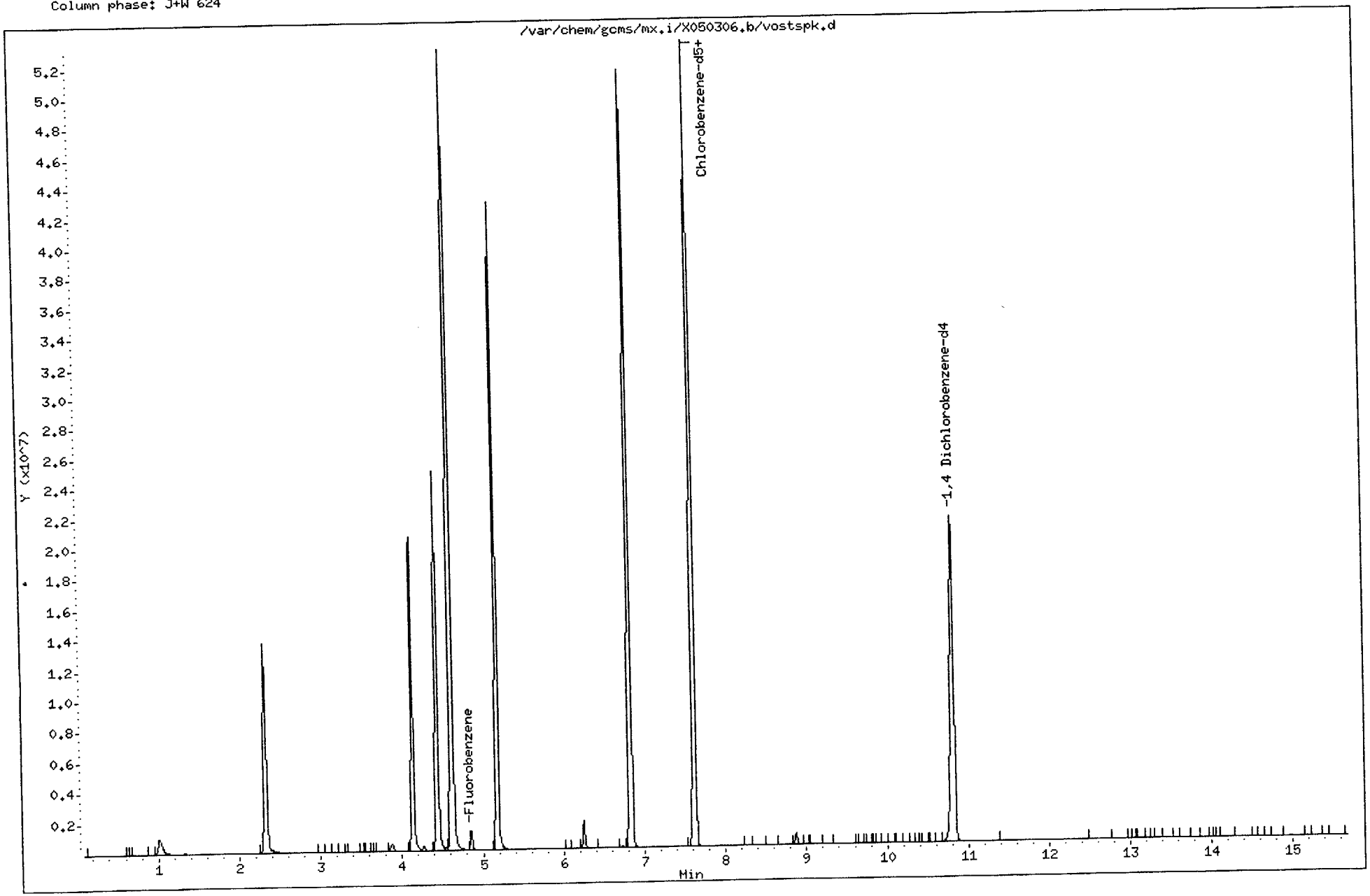
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mx.i/X050306.b/vostspk.d
Date : 03-MAY-2006 19:53
Client ID: spk240
Sample Info: VOSTSPK,1,3,,,spk240

Column phase: J+W 624

Instrument: mx.i

Operator: 60487
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X050306.b/vostspk.d

Date : 03-MAY-2006 19:53

Client ID: spk240

Instrument: mx.i

Sample Info: VOSTSPK,1,3,,,spk240

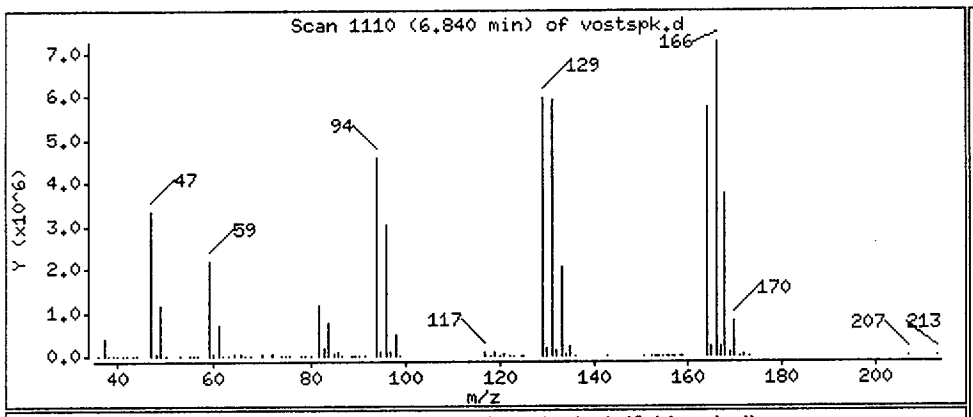
Operator: 60487

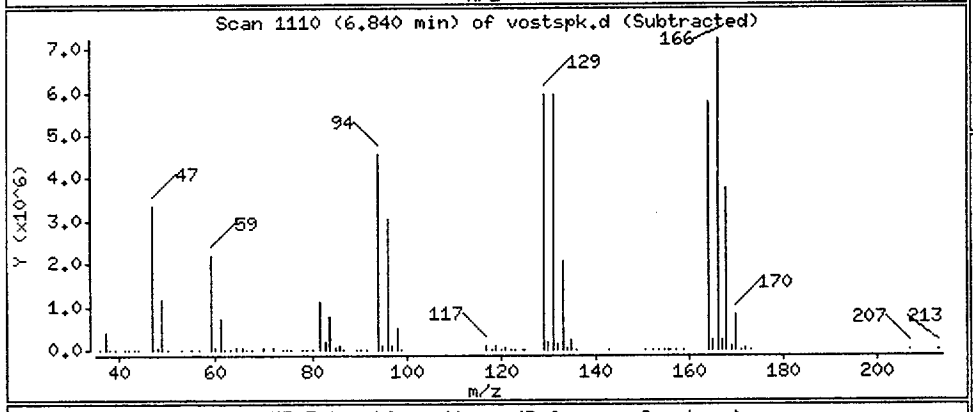
Column phase: J+W 624

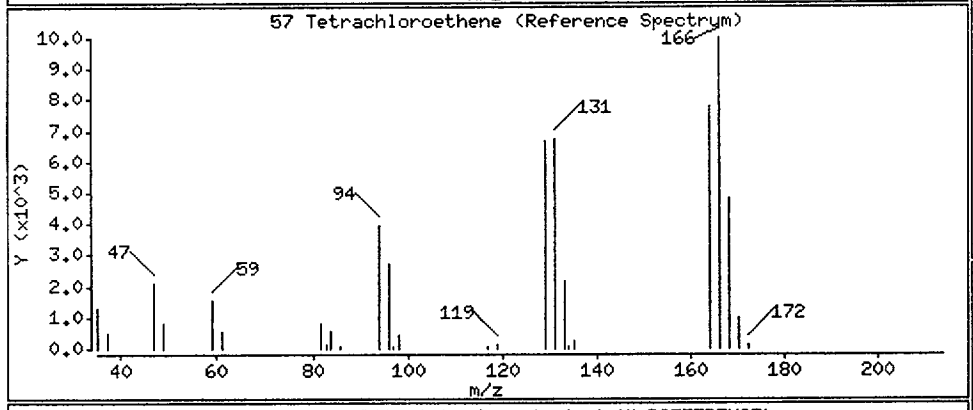
Column diameter: 0.18

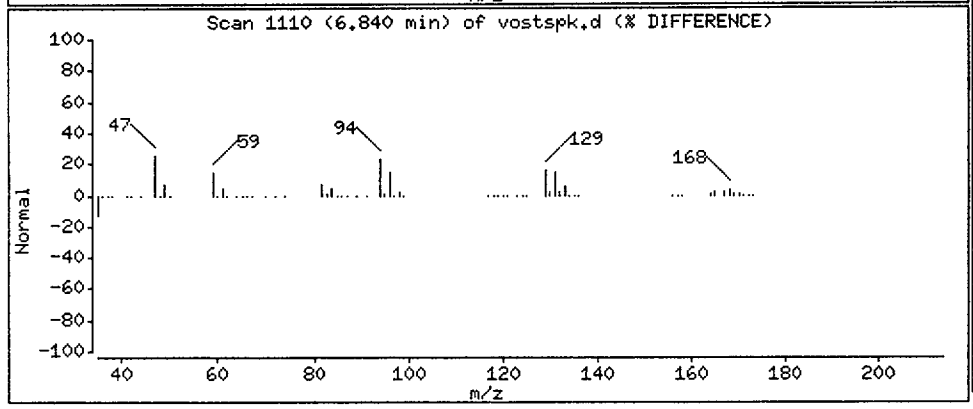
57 Tetrachloroethene

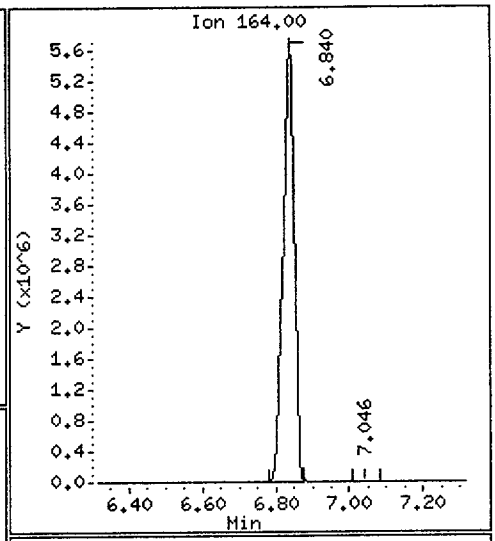
Concentration: 9.6607 ug

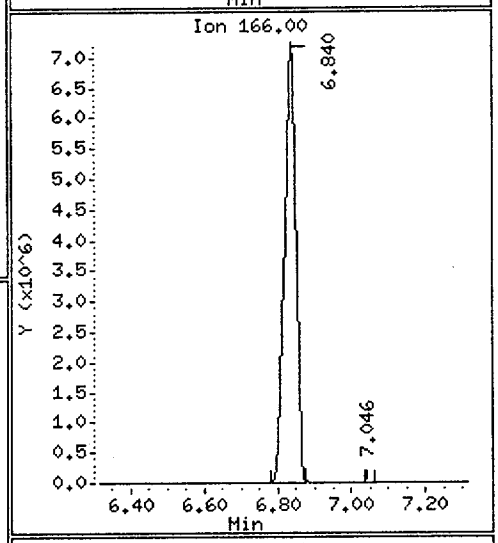


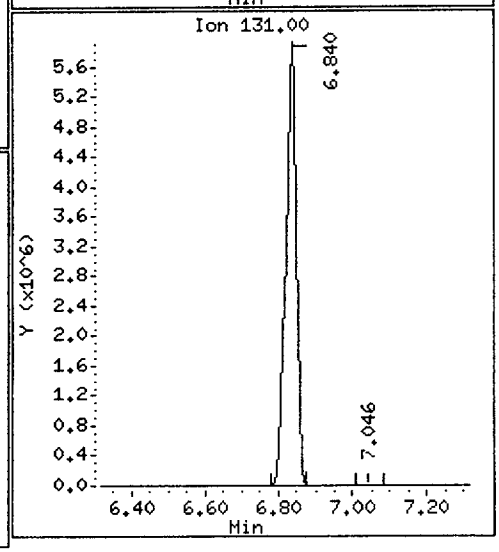












Data File: /var/chem/gcms/mx.i/X050306.b/vostspk.d

Date : 03-MAY-2006 19:53

Client ID: spk240

Instrument: mx.i

Sample Info: VOSTSPK,1,3,,,spk240

Operator: 60487

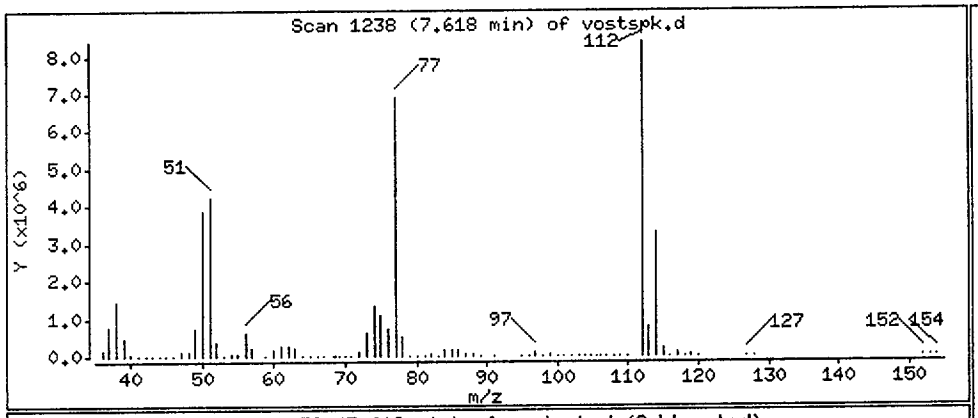
Column phase: J+W 624

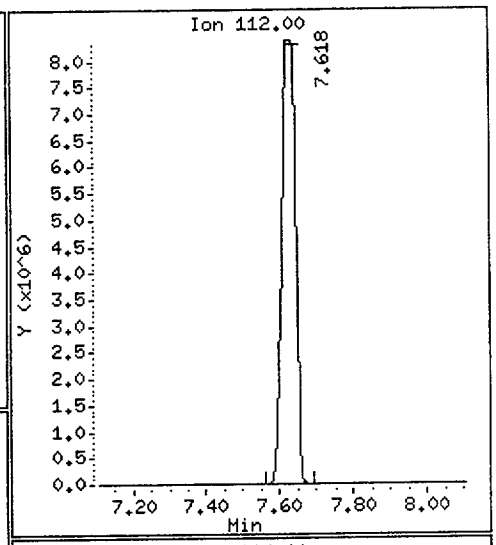
Column diameter: 0.18

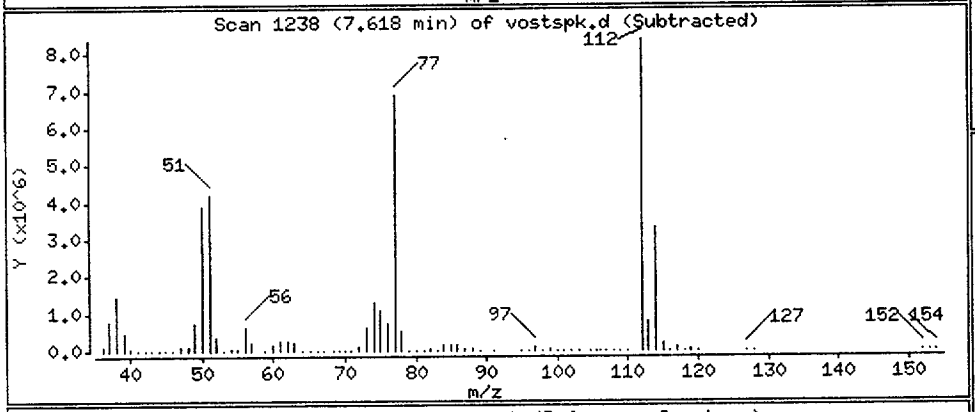
Saturated DW 5/9/06

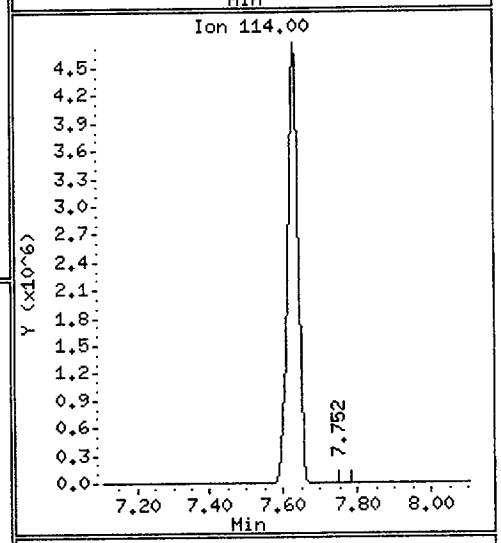
62 Chlorobenzene (spcc)

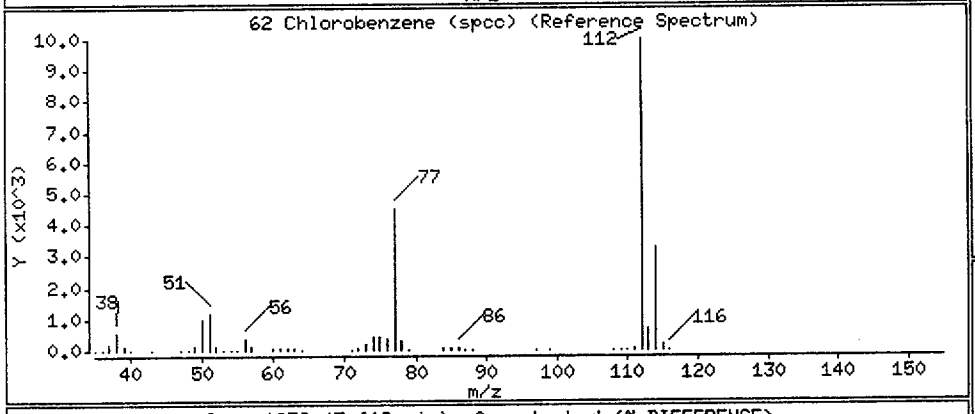
Concentration: 7.5987 ug

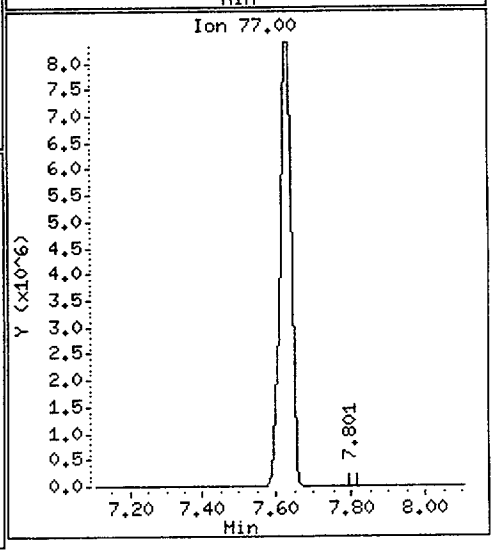


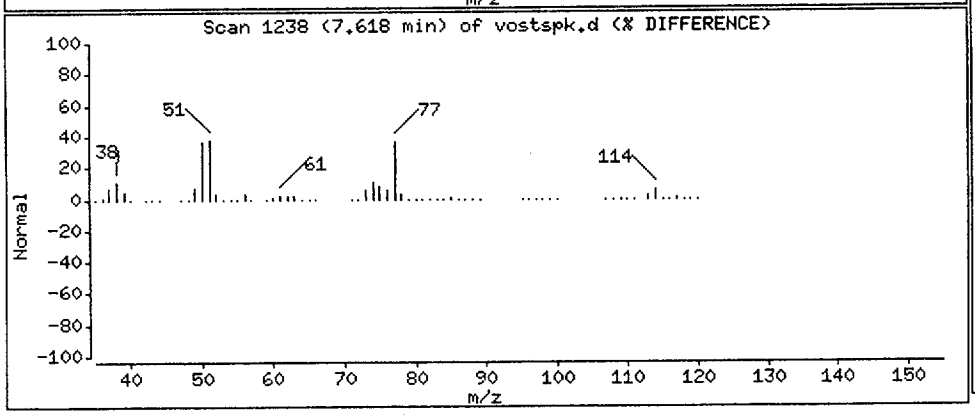












Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: H6D030169
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Volatile Organic Compounds (VOCs)	14 Days to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2908-R1-VOST Pair #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-2909-R1-VOST Pair #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-2910-R1-VOST Pair #1, Run #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2911-R1-VOST Pair #1, Run #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2912-R1-VOST Pair #1, Run #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2913-R1-VOST Pair #1, Run #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2914-R1-VOST Pair #1, Run #1 Tenax	3-28-06		Tenax Tube	**Tenax Tube - Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2915-R1-VOST Pair #1, Run #1 Tenax/Charcoal	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2916-R1-VOST Condensate	3-28-06		2 X 40 mL VOA Vials	**VOST Condensate Sample - Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2917-R1-VOST Tenax FB	3-28-06		Tenax Tube	**Tenax Tube - Field Blank Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-2918-R1-VOST Tenax/Charcoal FB	3-28-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Field Blank, Run #1** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3006-R2-VOST Pair #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3007-R2-VOST Pair #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-3008-R2-VOST Pair #1, Run #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3009-R2-VOST Pair #1, Run #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3010-R2-VOST Pair #1, Run #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3011-R2-VOST Pair #1, Run #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3012-R2-VOST Pair #1, Run #1 Tenax	3-29-06		Tenax Tube	**Tenax Tube - Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3013-R2-VOST Pair #1, Run #1 Tenax/Charcoal	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
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Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3014-R2-VOST Condensate	3-29-06		2 X 40 mL VOA Vials	**VOST Condensate Sample - Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3015-R2-VOST Tenax FB	3-29-06		Tenax Tube	**Tenax Tube - Field Blank Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3016-R2-VOST Tenax/Charcoal FB	3-29-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Field Blank, Run #2** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3089-R3-VOST Pair #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-3090-R3-VOST Pair #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Archive this back-up sample.
G-3091-R3-VOST Pair #1, Run #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3092-R3-VOST Pair #1, Run #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
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Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3093-R3-VOST Pair #1, Run #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3094-R3-VOST Pair #1, Run #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3095-R3-VOST Pair #1, Run #1 Tenax	3-30-06		Tenax Tube	**Tenax Tube - Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3096-R3-VOST Pair #1, Run #1 Tenax/Charcoal	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Pair #1, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3097-R3-VOST Condensate	3-30-06		2 X 40 mL VOA Vials	**VOST Condensate Sample Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3098-R3-VOST Tenax FB	3-30-06		Tenax Tube	**Tenax Tube - Field Blank Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3099-R3-VOST Tenax/Charcoal FB	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Field Blank, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3100-R3-VOST Tenax TB	3-30-06		Tenax Tube	**Tenax Tube - Trip Blank Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3101-R3-VOST Tenax/Charcoal TB	3-30-06		Tenax/ Charcoal Tube	**Tenax-Charcoal Tube – Trip Blank, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Analyze this tube separately for the target volatile compounds and TICs by GC/MS (Method 5041B/8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.
G-3102-R3-VOST DI Water TB	3-30-06		40 mL VOA Vial	**VOST Deionized Water Trip Blank, Run #3** Method 0030 VOST Train Volatiles (VOCs) Including POHC and TIC Analysis	Prepare the sample as required using a 25 mL purge volume and analyze for the target volatile compounds and TICs by GC/MS (Method 8260B). Also conduct a library search for the tentatively identified compounds (TICs) using an 85% match criteria and semi-quantitate against the nearest internal standard.

Request for Analysis/Chain-of-Custody – RFA/COC #014 [VOST]
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Comprehensive Performance Test at Parker, Arizona

H6D030169

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	NONE
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	6°C
(3) Record any apparent sample loss/breakage.	NONE
(4) Record any unidentified samples transported with this shipment of samples:	NONE
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	HAND DELIVERED / NO CUSTODY SEALS

Custody Transfer:

	Name	Company	Date/Time
Relinquished By:			
Accepted By:	[illegible]	STL	4-2-06 16:25
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

1 of 2

Client: STL KNOXVILLE **Project:** WESTATES CARBON CPT **Lot Number:** H6D030169

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14A
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?	✓			☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: 64357 PM Instructions: _____

Sample Receiving Associate: Bryan Johnson Date: 4-3-06

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STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: ENVIRONMENTAL ANALYTICAL SERVICE **Project:** _____ **Lot Number:** 4L6D030169

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)			✓	☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☑ 1f COC not received ☐ 1g Other:	RECEIVED BY: Dwyan Vannoy 4-4-06 09:30 NO CUSTODY SEALS RECEIVED AT 21°C AKD 4-4-06 1 COOLER UPSH 1291X211014710 9061
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)		✓		☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = 21°C	IF, NO COC RECEIVED
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?			✓	☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?		✓	✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?			✓	☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)			✓	☑ 14a Not relinquished	
15. Are tests/parameters listed for each sample?			✓	☑ 15a Incomplete information	
16. Is the matrix of the samples noted?			✓	☑ 15a Incomplete information	
17. Is the date/time of sample collection noted?			✓	☑ 15a Incomplete information	
18. Is the client and project name/# identified?			✓	☑ 15a Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: _____ QA026R18.doc, 1/30/06