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**SEVERN
TRENT**

STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315
www.stl-inc.com

ANALYTICAL REPORT

REVISED

PROJECT NO. 142541

Focus/US Filter Westates 0030

Lot #: H6D030169

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.



Kevin S. Woodcock
Project Manager

May 15, 2006

ANALYTICAL METHODS SUMMARY

H6D030169

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
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	
H2G9I	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.

PROJECT NARRATIVE

H6D030169 – Revised 05/15/06

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:

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

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

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.

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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.

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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

(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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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 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

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

(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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030169
 MB Lot-Sample #: H6D050000-253

Work Order #...: H2MQQ1AA

Matrix.....: WATER

Prep Date.....: 04/05/06

Analysis Date...: 04/05/06

Prep Batch #...: 6095253

Dilution Factor: 1

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169
 LCS Lot-Sample#: H6D050000-253

Work Order #...: H2MQQ1AC

Matrix.....: WATER

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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
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
 LCS Lot-Sample#: H6D050000-253

Work Order #...: H2MQQ1AC

Matrix.....: WATER

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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
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

(Continued on next page)

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

(Continued on next page)

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

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030169
MS Lot-Sample #: H6D030205-002

Work Order #...: H2HPA1AC-MS
H2HPA1AD-MSD

Matrix.....: WATER

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
 MB Lot-Sample #: H6D060000-033

Work Order #...: H2N441AA

Matrix.....: AIR

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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

(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

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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
 MB Lot-Sample #: H6D070000-054

Work Order #...: H2RM41AA

Matrix.....: AIR

Prep Date.....: 04/07/06

Analysis Date...: 04/07/06

Prep Batch #...: 6097054

Dilution Factor: 1

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
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			METHOD
		LIMIT	UNITS		
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

(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

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
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

(Continued on next page)

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

(Continued on next page)

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: 4465030169

STL Knoxville Project Number: 142541

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

Project Identification:	Westates Carbon CPT	Laboratory Deliverable Turnaround Requirements:
STL Knoxville Project Number:	142541	Analytical Due Date: 21 Days from Lab Receipt (Review-Released Data)
STL Contact:	Ms. Patti Carswell (865) 291-3010	Data Package Due Date: 21 Days from Lab Receipt
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080	Laboratory Destination: STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
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		Courier: Federal Express
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 Require- ments	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.

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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]
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 Require- ments	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:

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

1 of 2

Client: STL KNOXVILLE Project: WESTATES CARMON CPT Lot Number: H0D030169

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?	☒			☐ 15a Incomplete information	

Quote #: 621351 PM Instructions: _____Sample Receiving Associate: Bryan Danner Date: 4-3-06 QA026R18.doc, 1/30/06

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: ENVIRONMENTAL ANALYTICAL SERVICE Project: 2 of 2Lot Number: 16030169

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: <u>Dan Vossman</u> 4-4-06 09:30 NO CUSTODY SEALS RECEIVED AT 21°C BKS 4-4-06 1 COOLER JPSH 1291X2110147109061
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 ☐ 10a Holding time expired	
10. Were samples received within holding time?				☐ Incomplete information	
11. For rad samples, was sample activity info. provided?				If yes & appears to be >1%, was SOG notified?	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?				☐ 13a Leaking ☐ 13b Other:	
13. Are the shipping containers intact?				☒ 14a Not relinquished	
14. Was COC relinquished? (Signed/Dated/Timed)				☒ 15a Incomplete information	
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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/L)	(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	~~0.0053306~~
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	~~0.020250~~
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	~~0.040595~~

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	FINAL
							(ug/L)	(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	~~0.11963~~
57 Tetrachloroethene		164	6.829	6.816	(0.900)	5855342	187.075	4.6769(A) E
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) E
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	Calibration Date: 07-APR-2006
Lab File ID: h2g871aa.d	Calibration Time: 09:16
Lab Smp Id: H2G871AA	Client Smp ID: G-2910-R1-VOST PAIR
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m	
Misc Info: X040706,8260B_LM,focus.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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

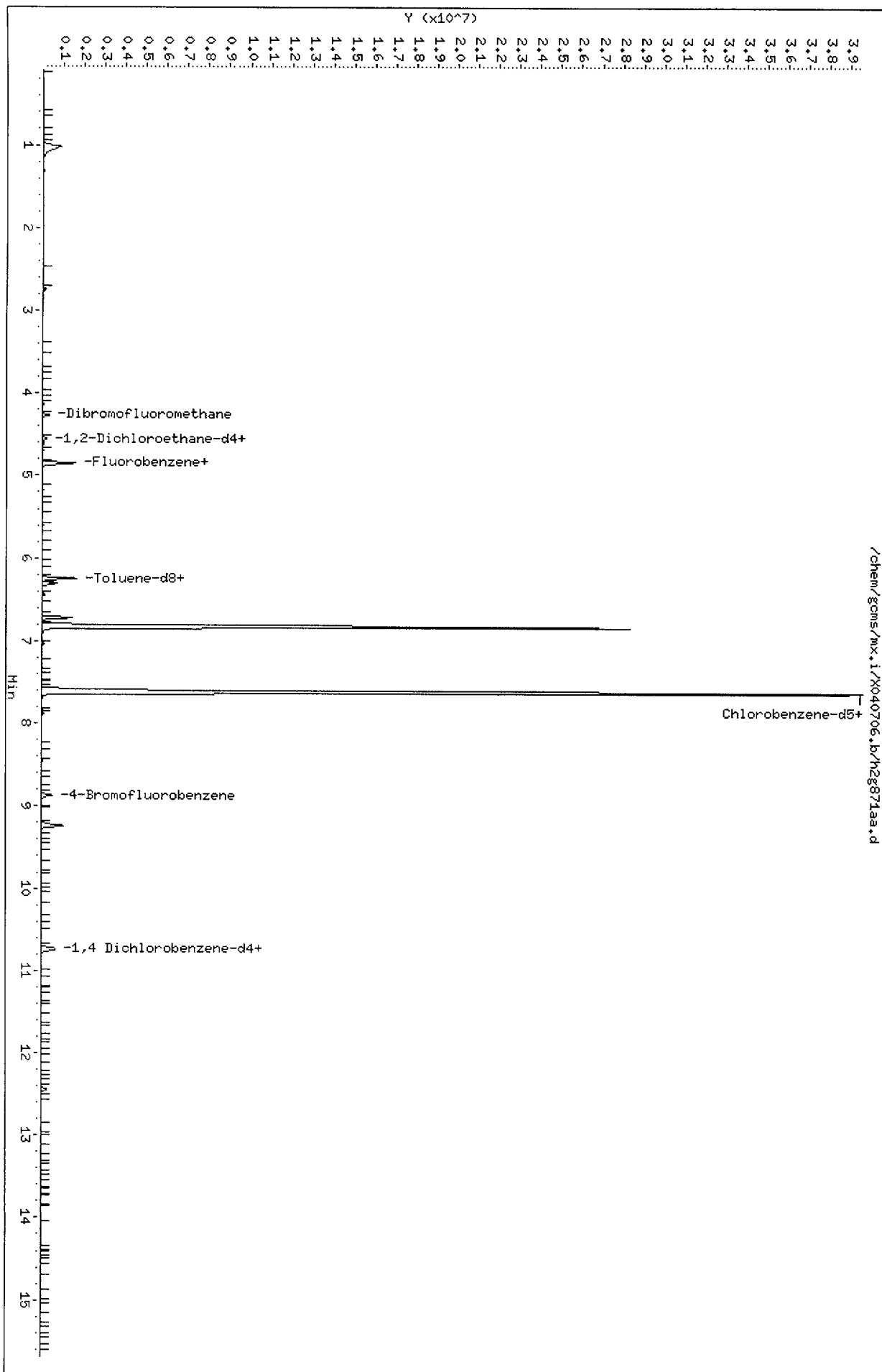
Sample Info: H2G871AA,1,0,,,

Column phase: J+M 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,,,

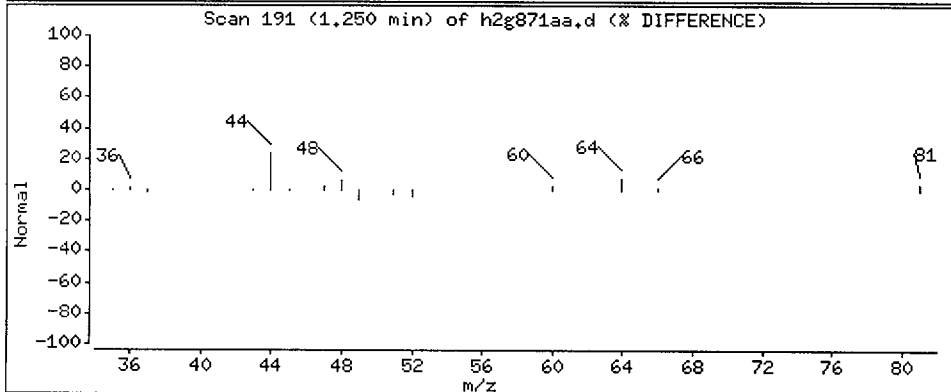
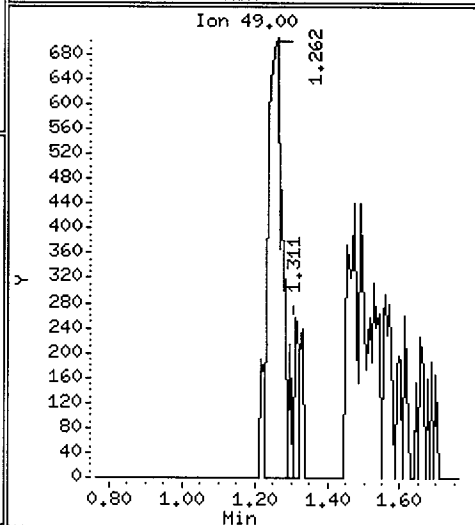
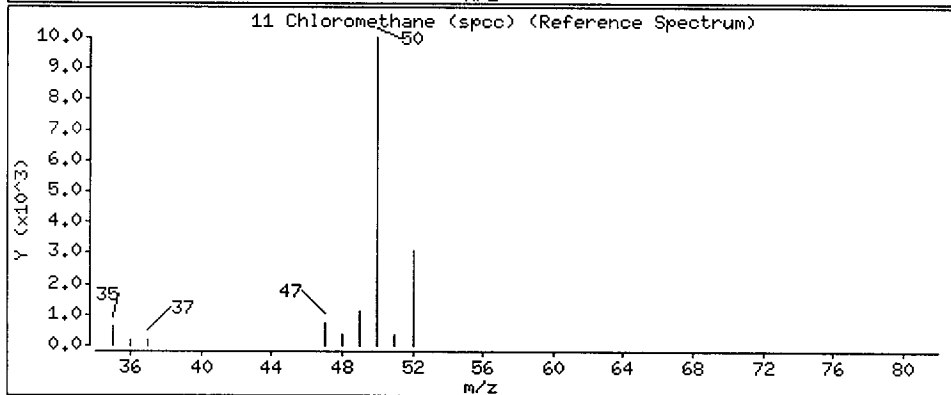
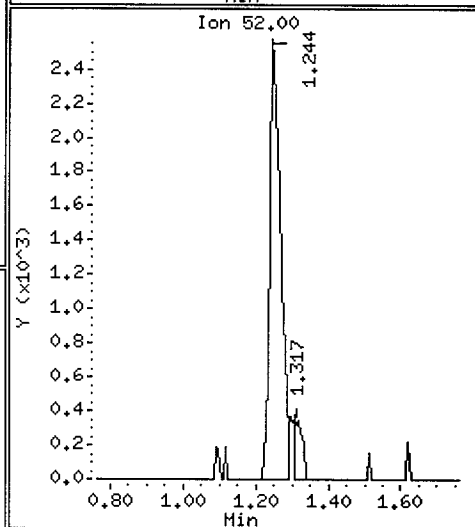
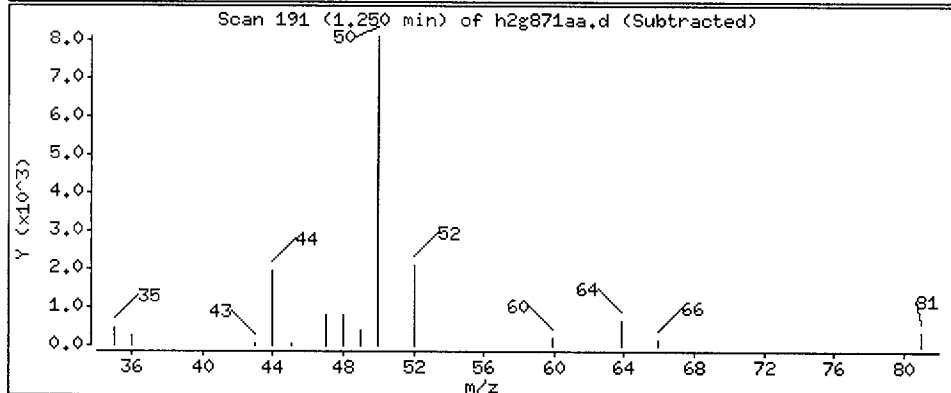
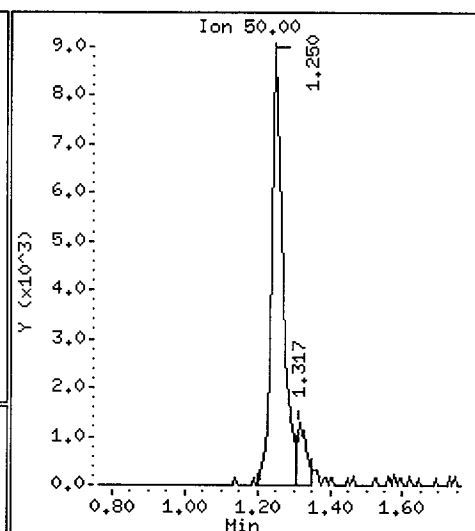
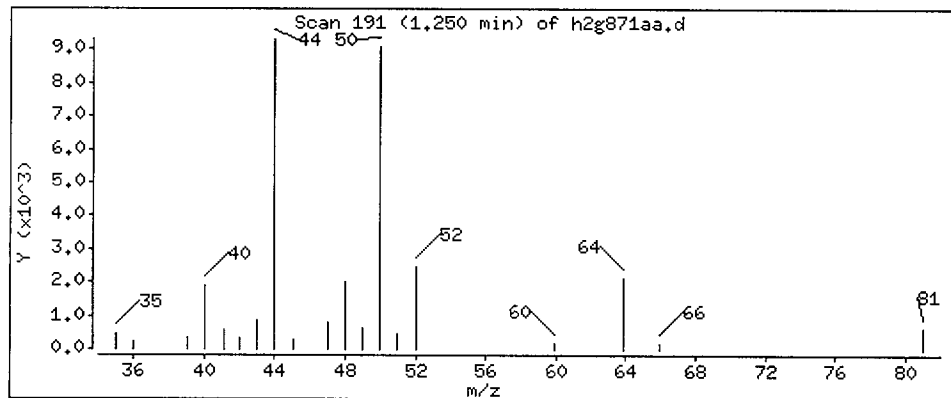
Operator: 22980

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,,,

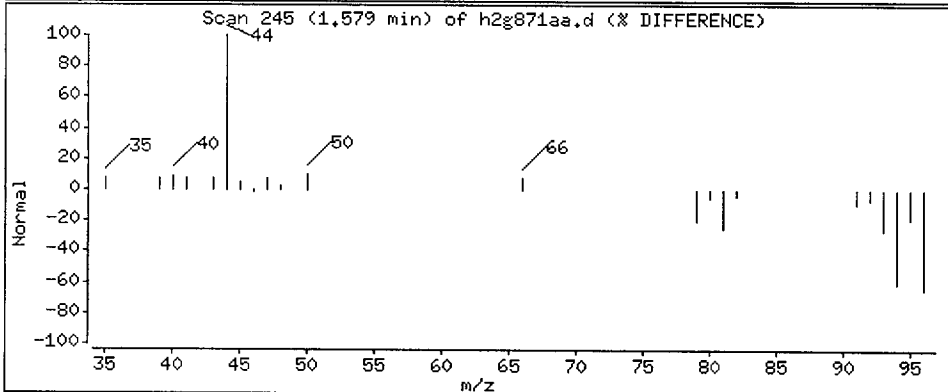
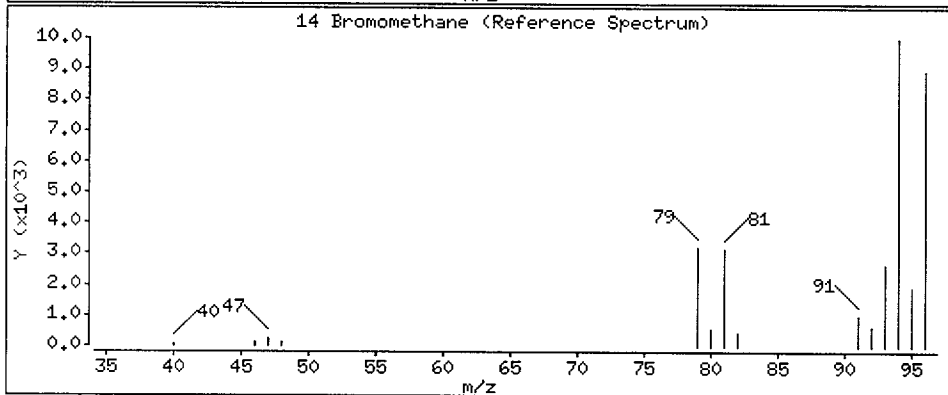
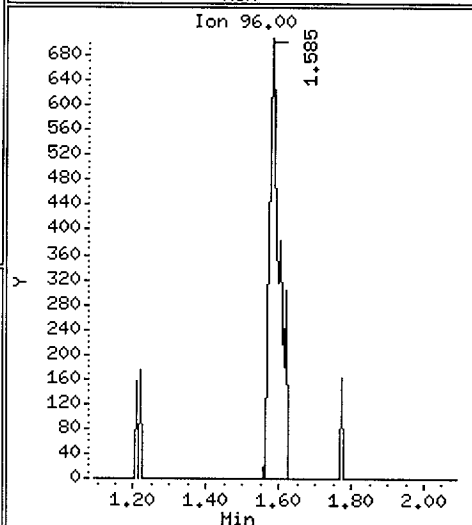
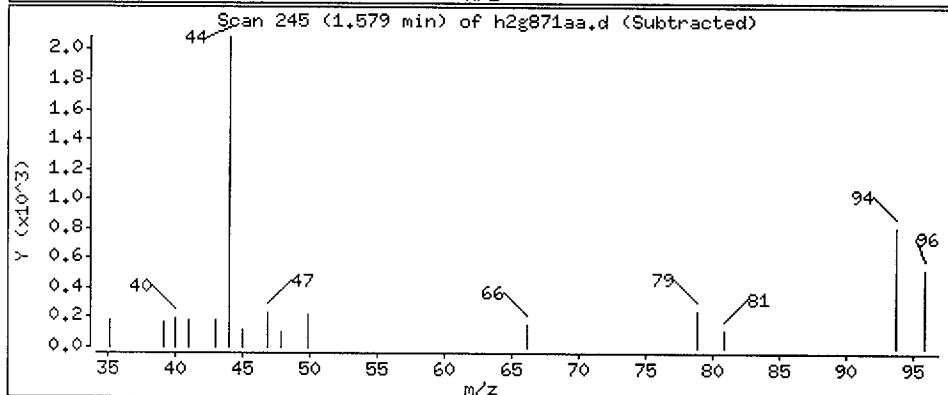
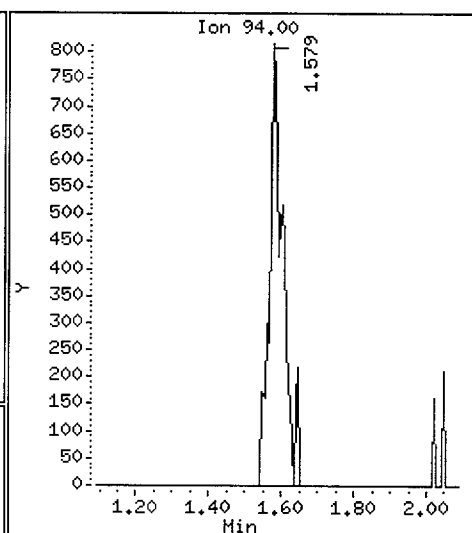
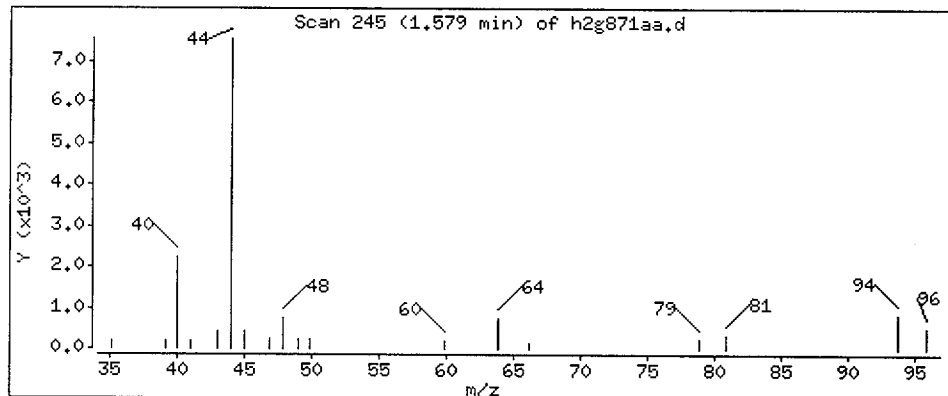
Operator: 22980

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,,

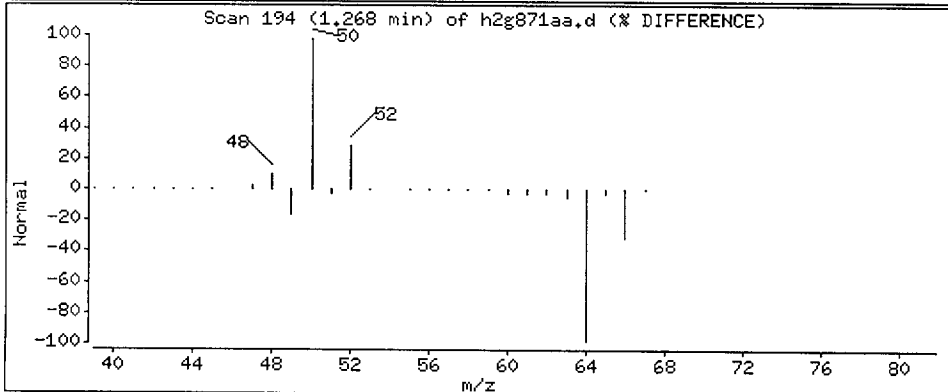
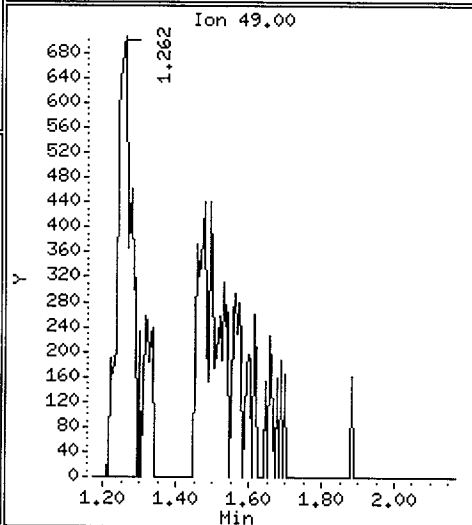
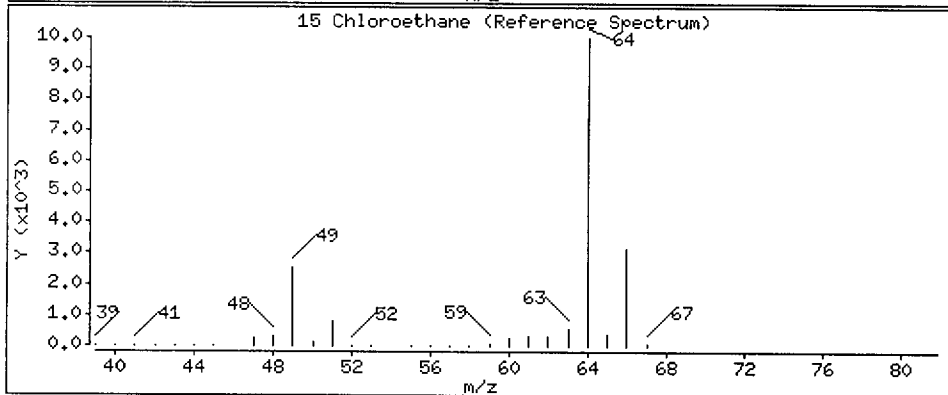
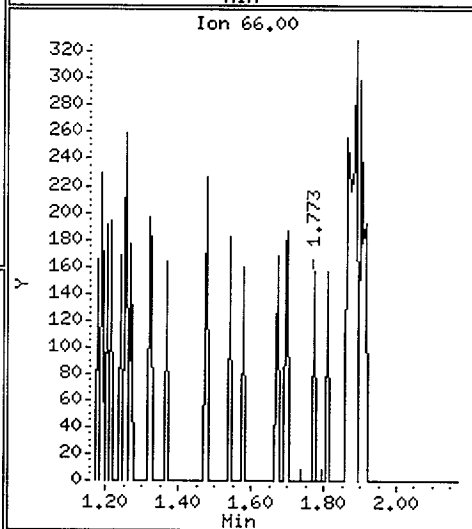
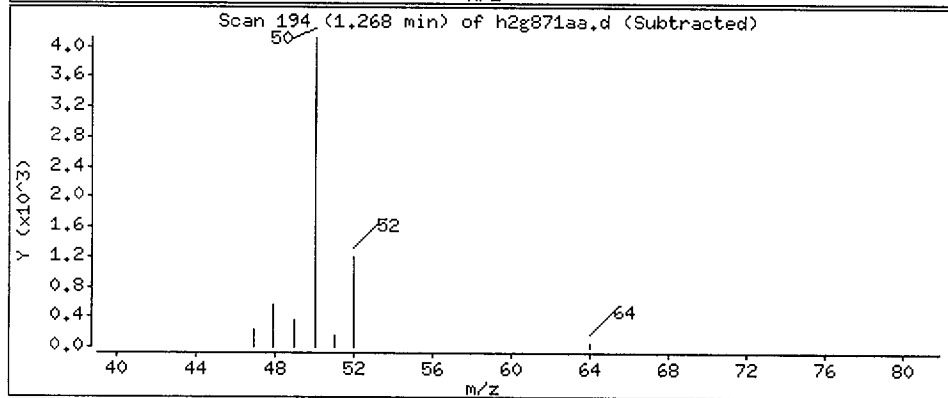
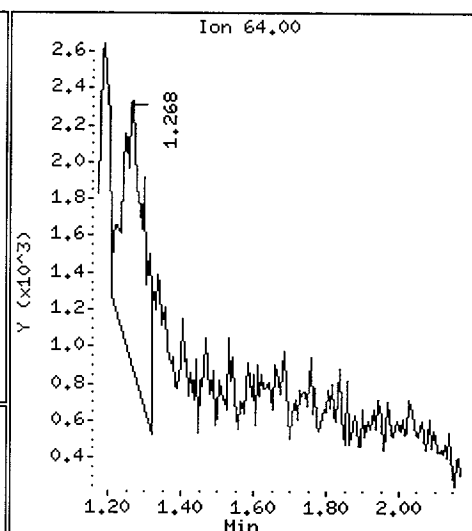
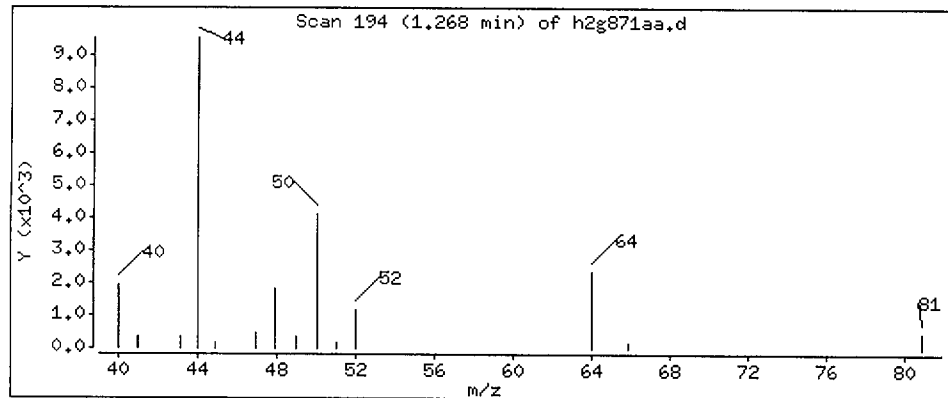
Operator: 22980

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,,,

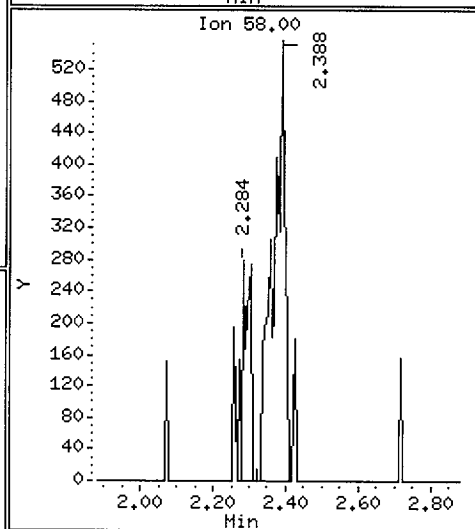
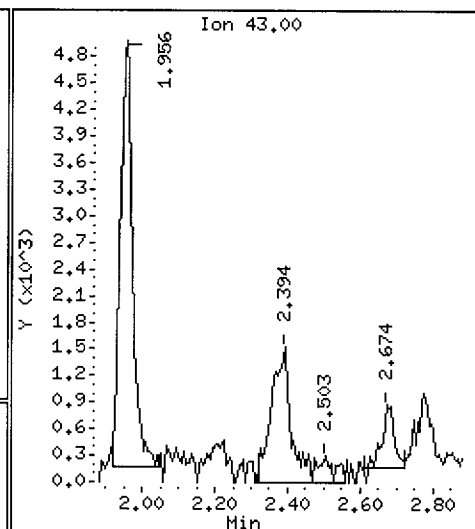
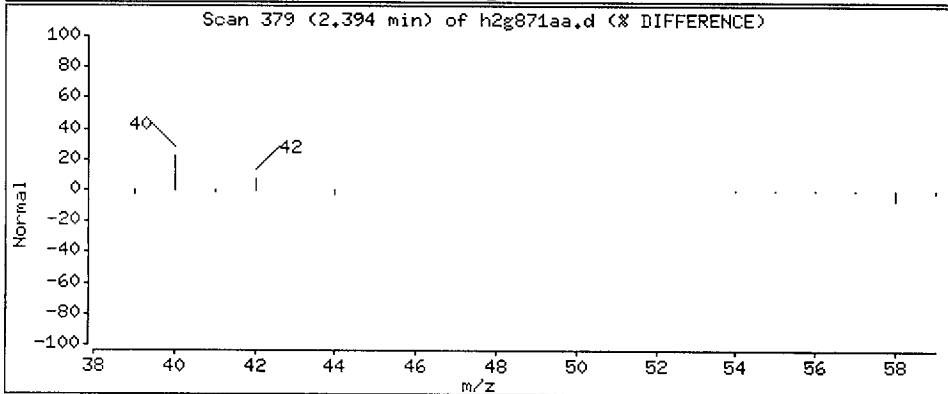
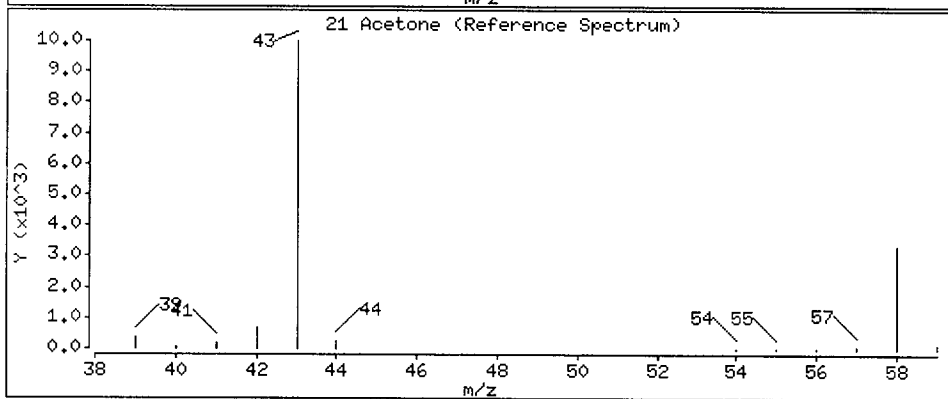
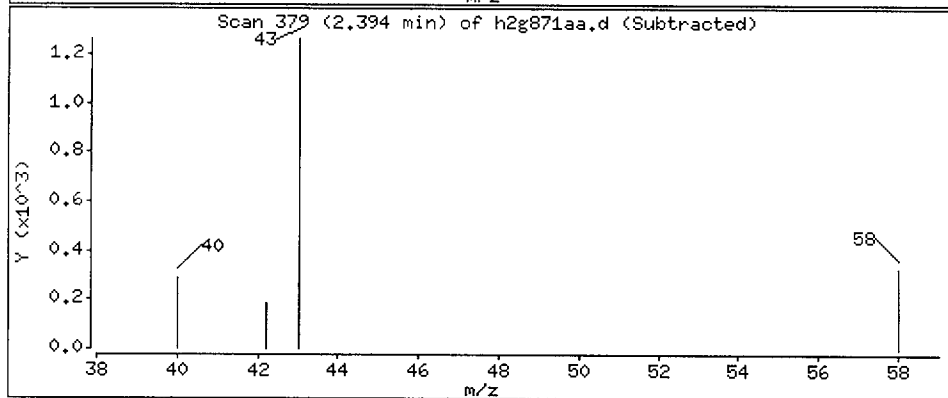
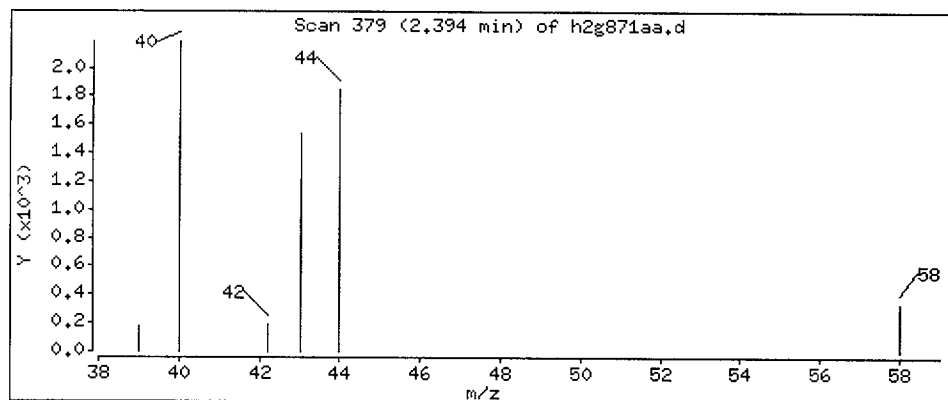
Operator: 22980

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,,,

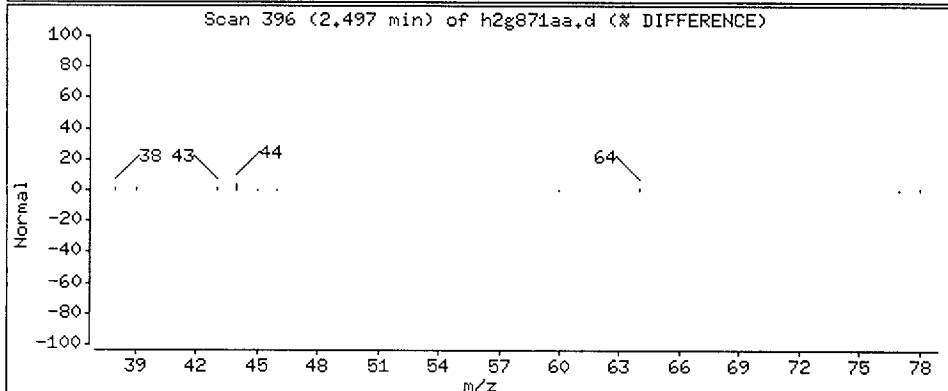
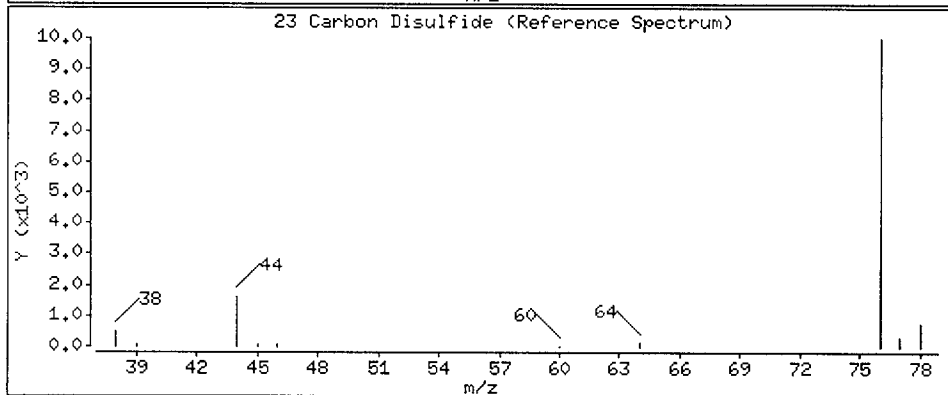
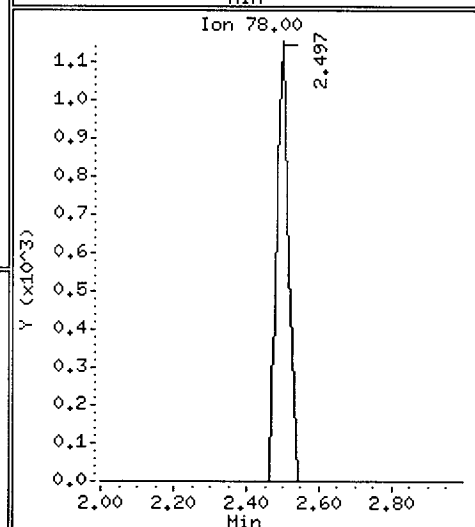
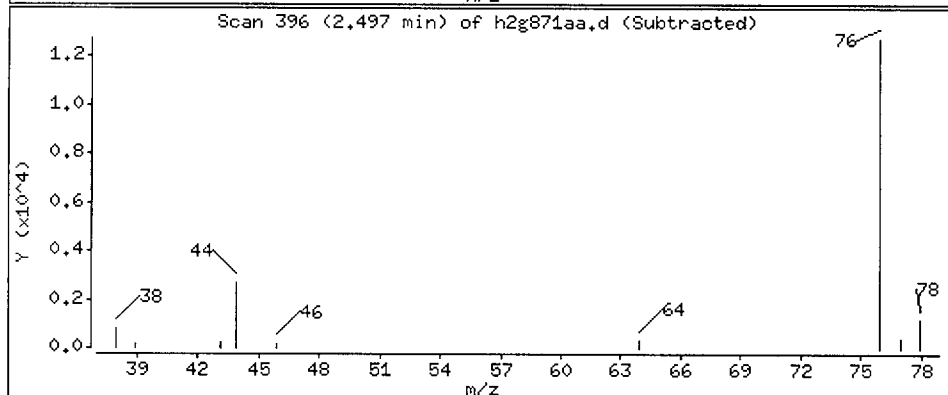
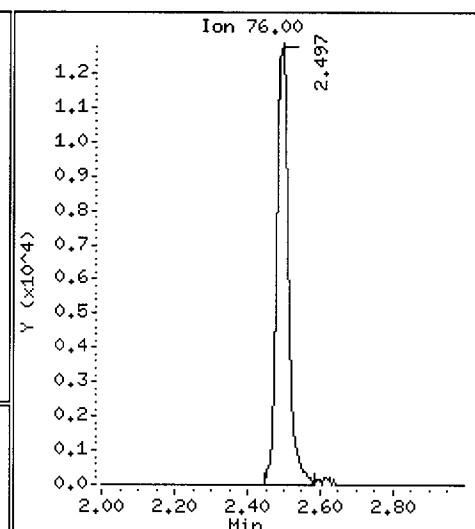
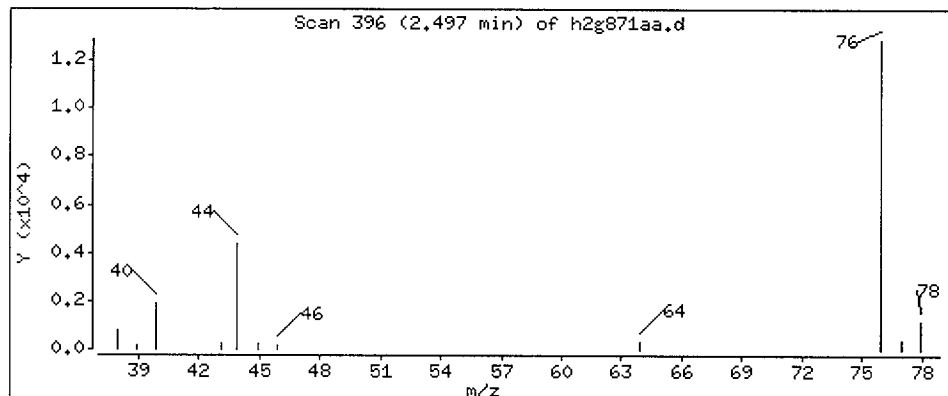
Operator: 22980

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,,

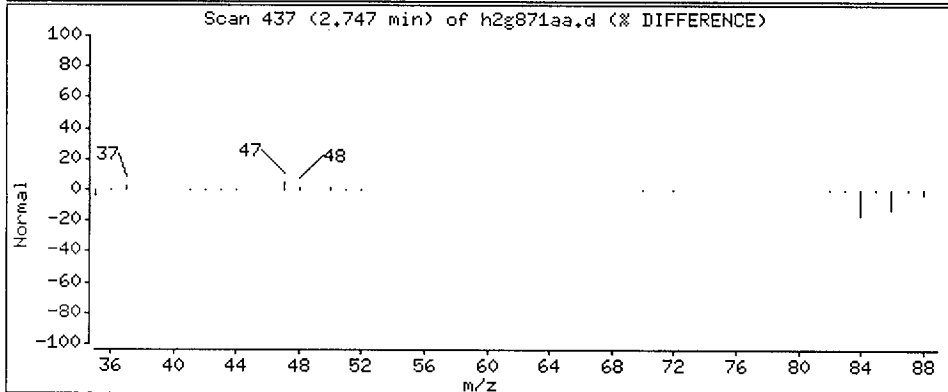
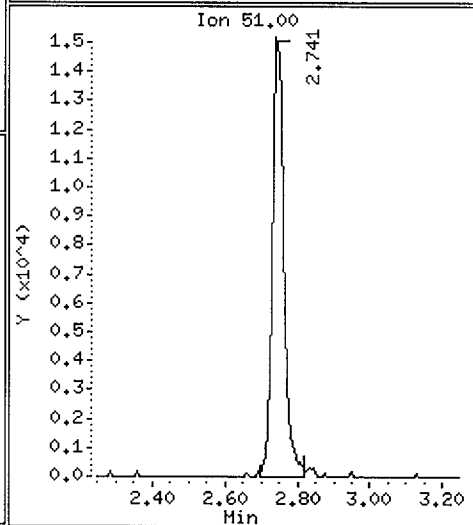
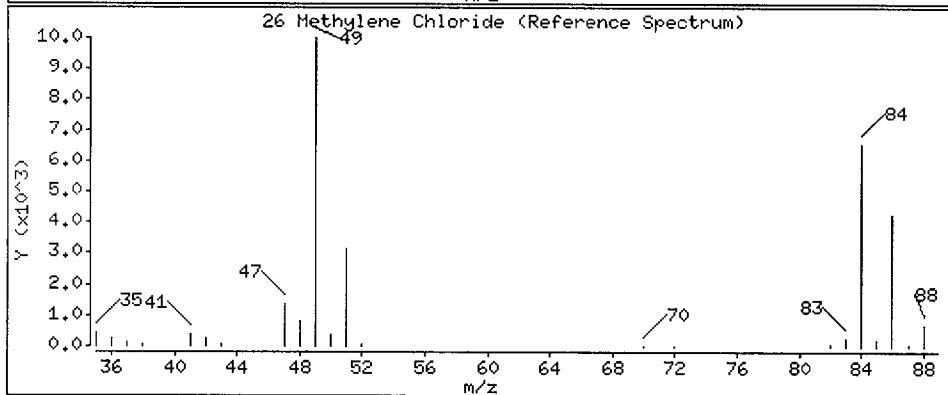
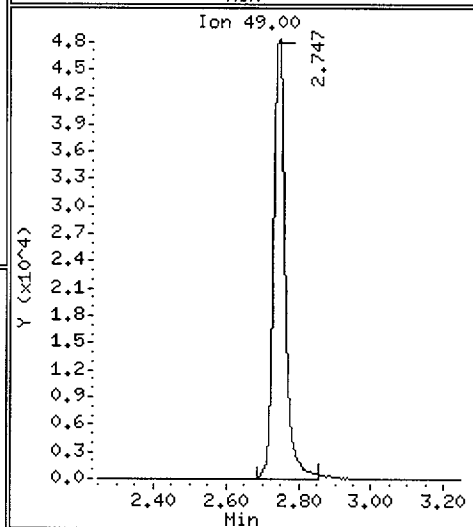
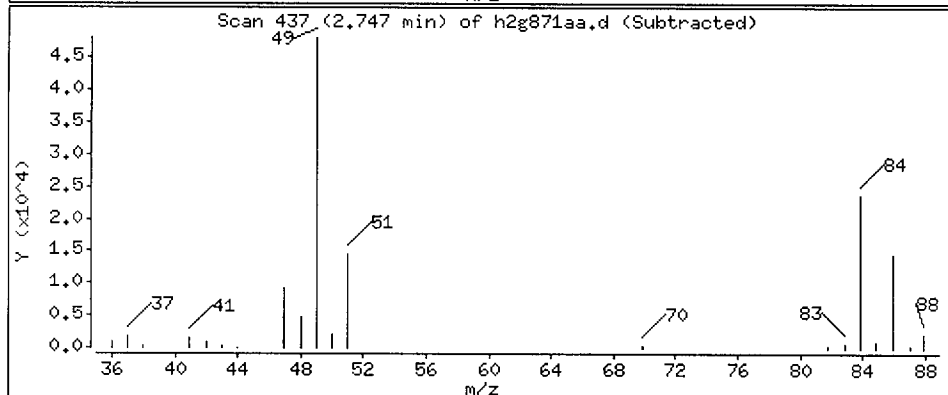
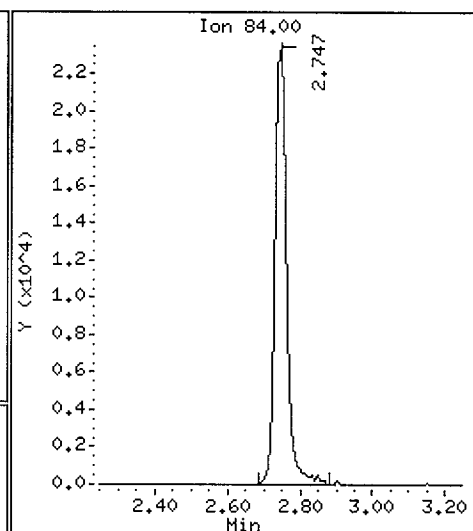
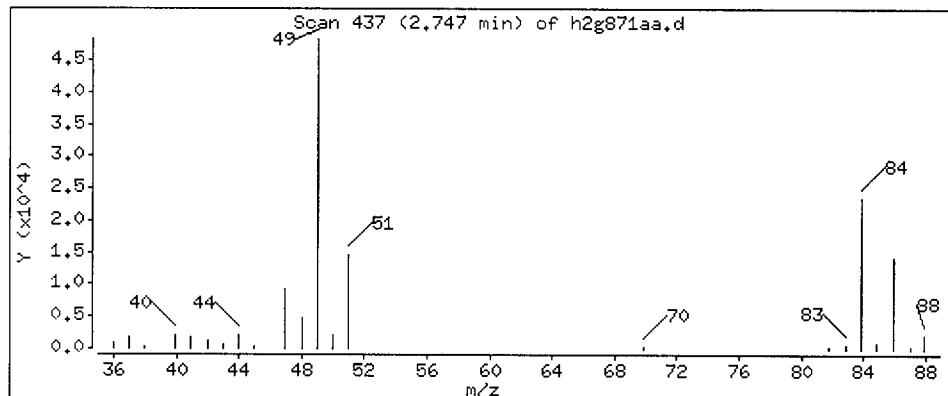
Operator: 22980

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,,

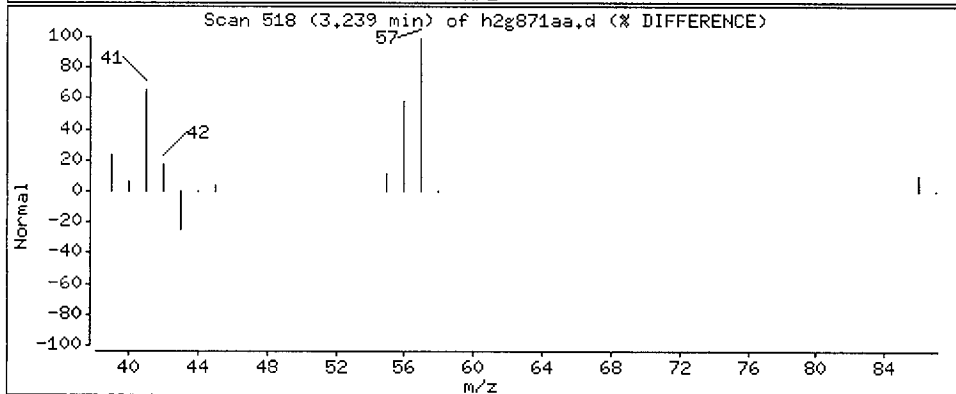
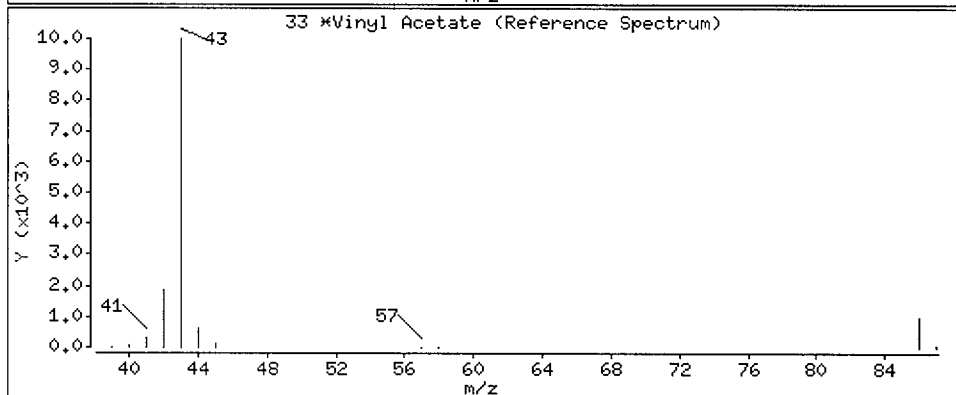
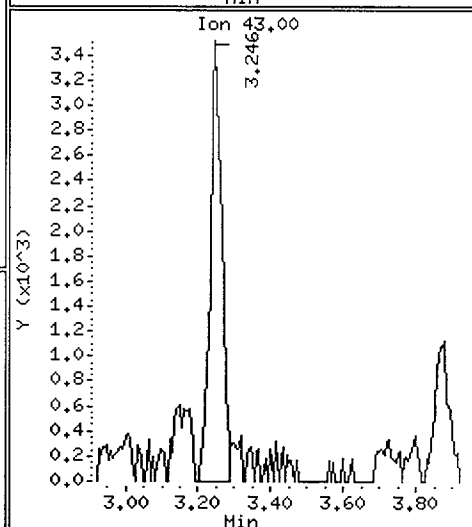
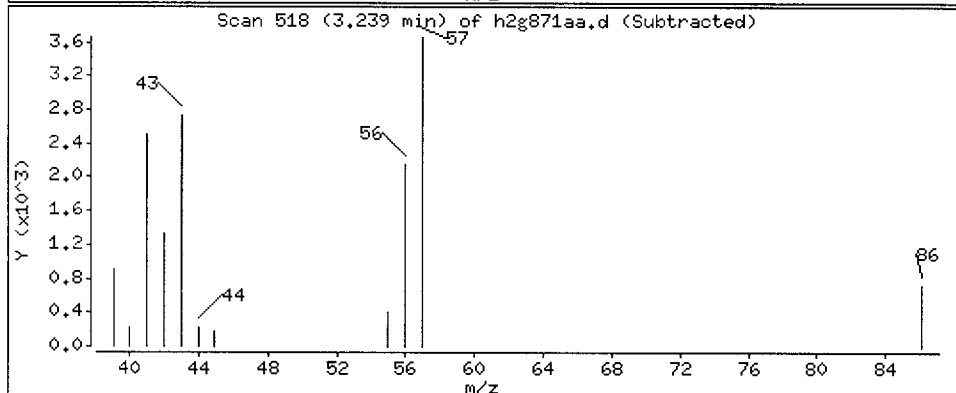
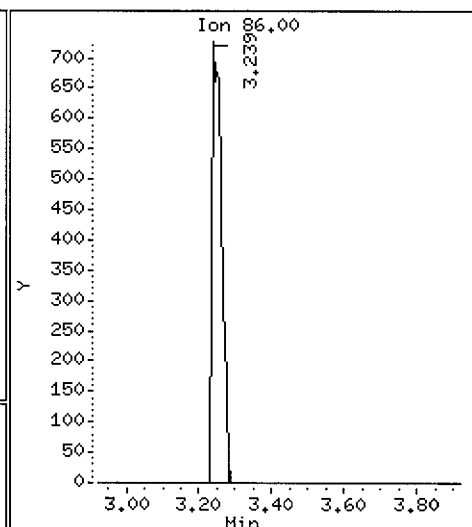
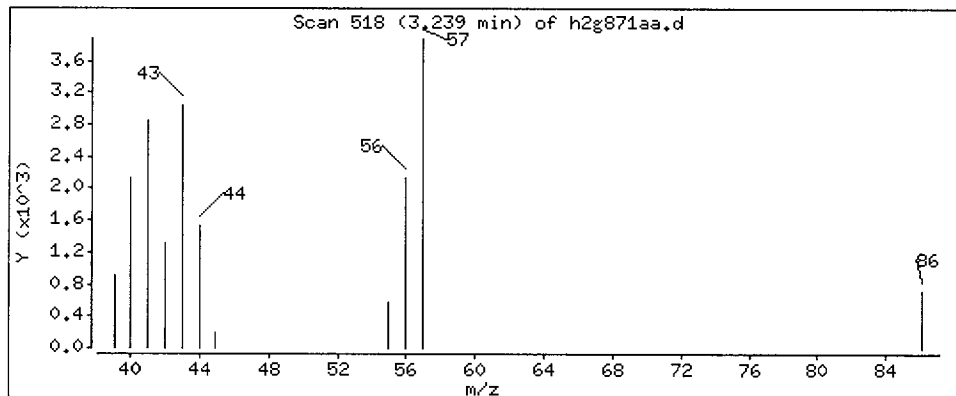
Operator: 22980

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,,,

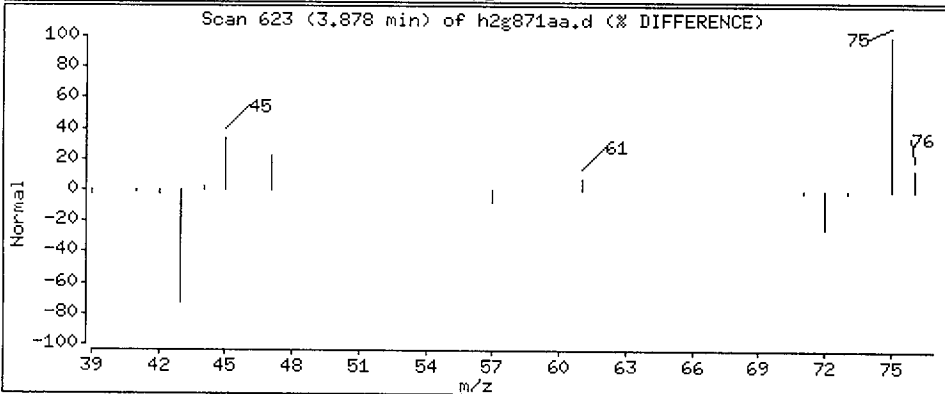
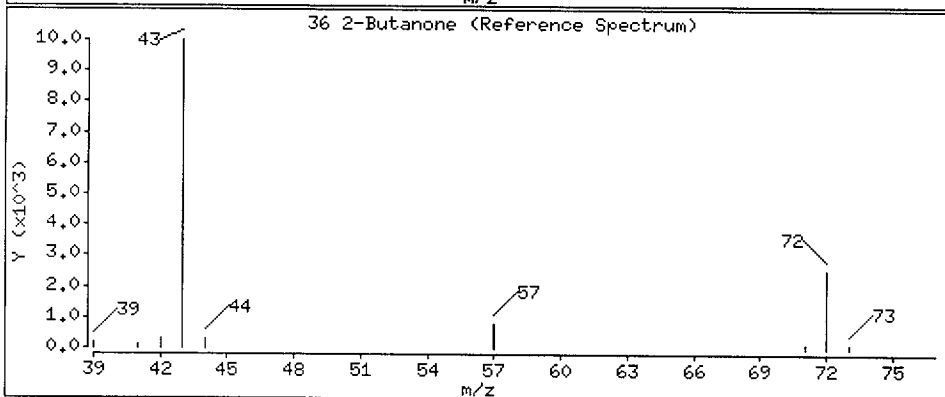
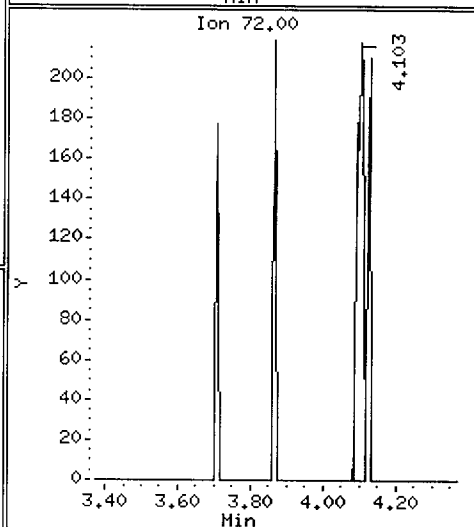
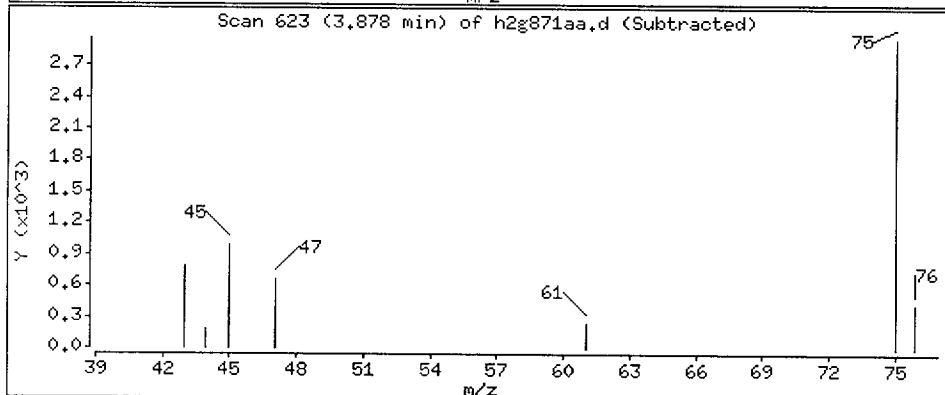
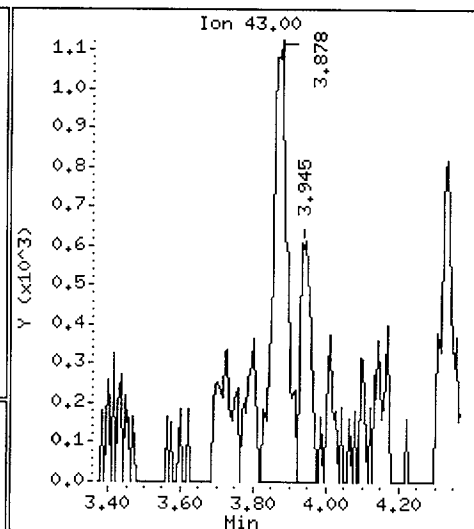
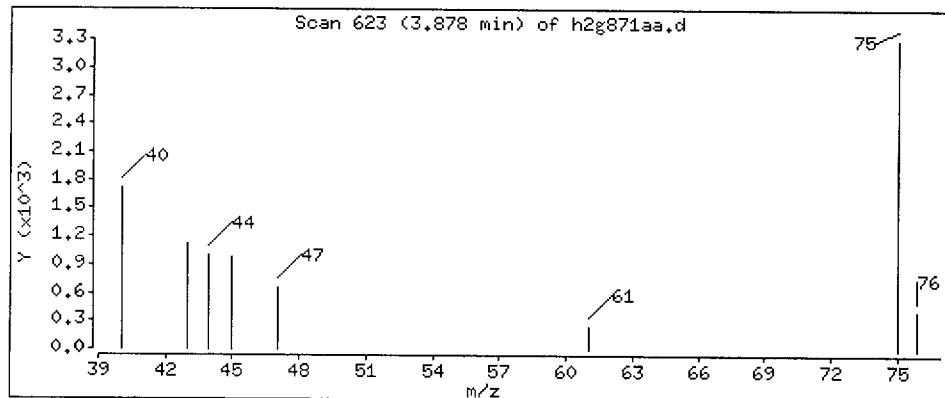
Operator: 22980

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,,

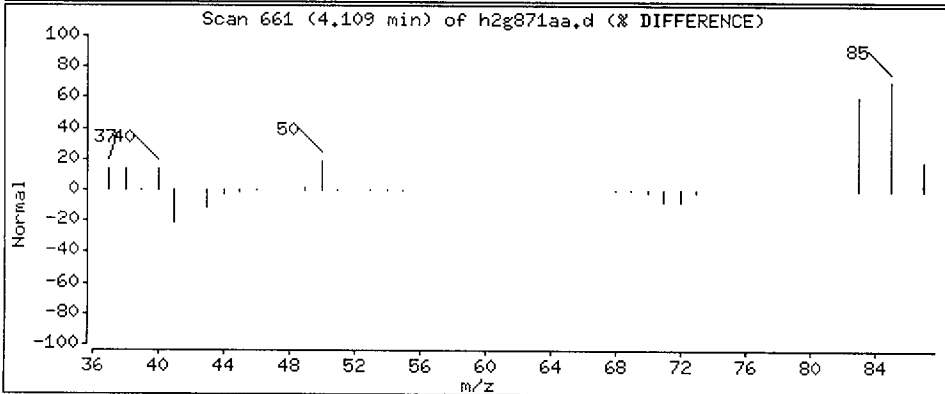
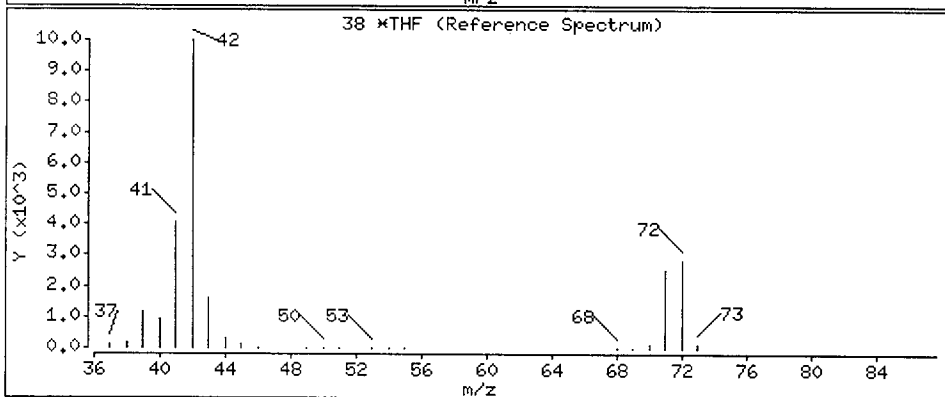
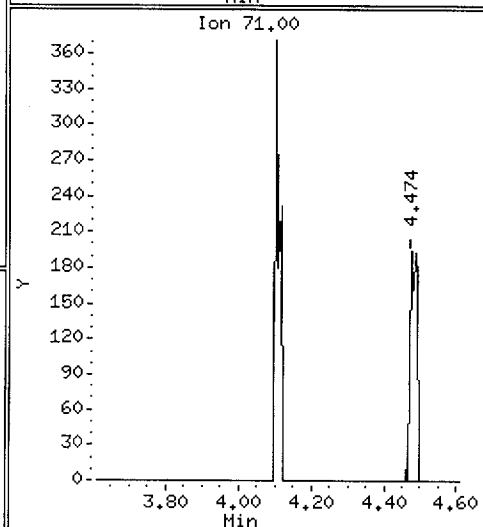
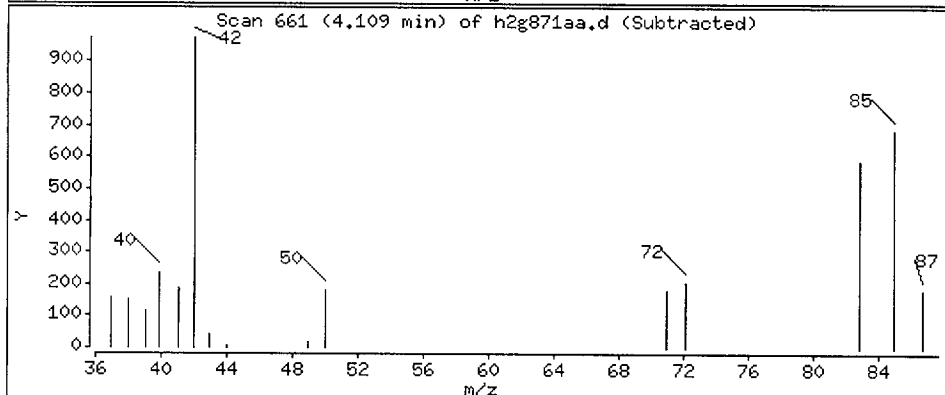
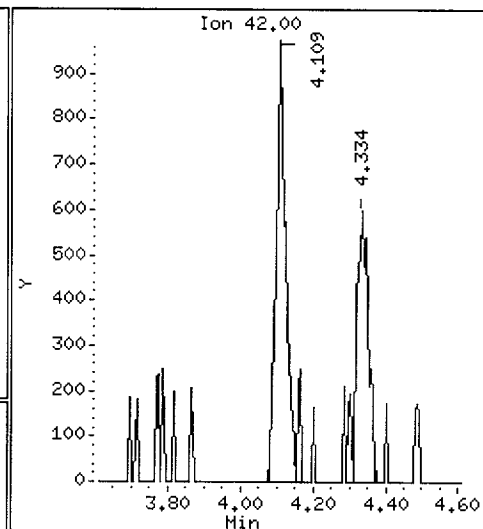
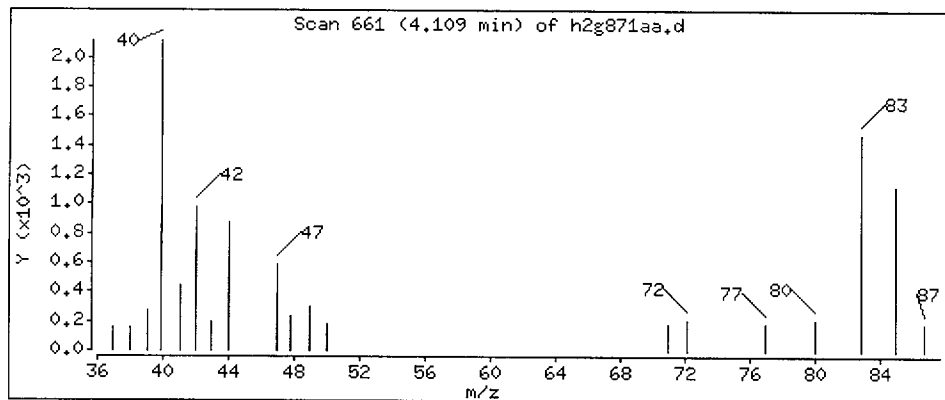
Operator: 22980

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,,,

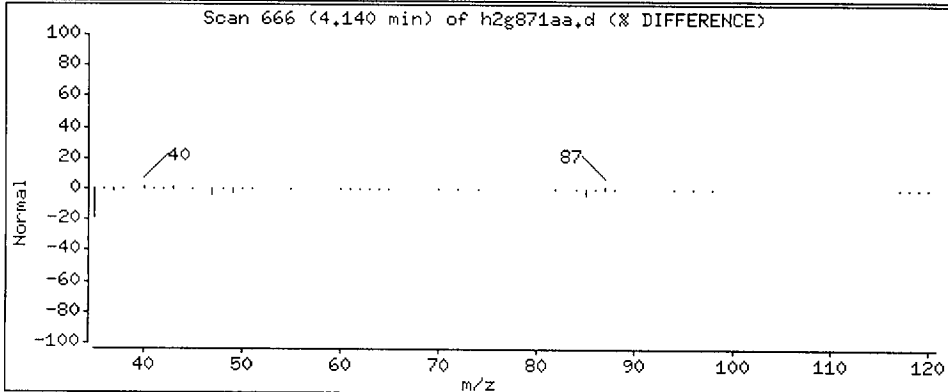
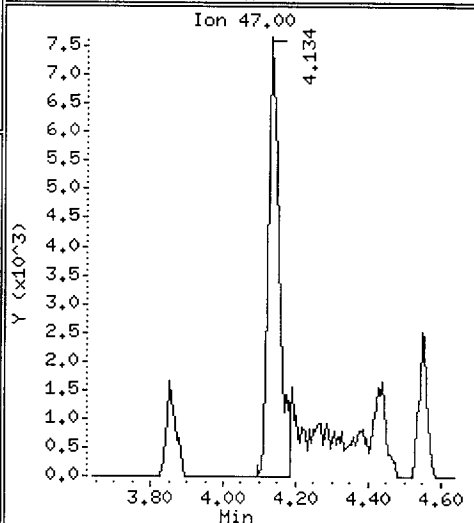
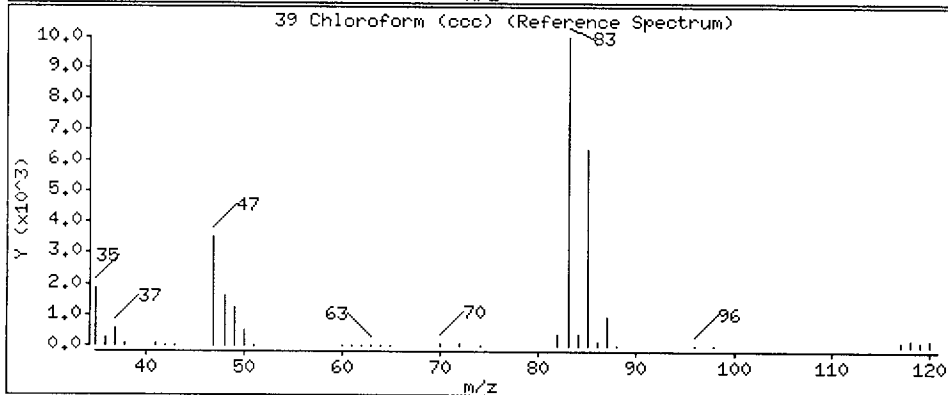
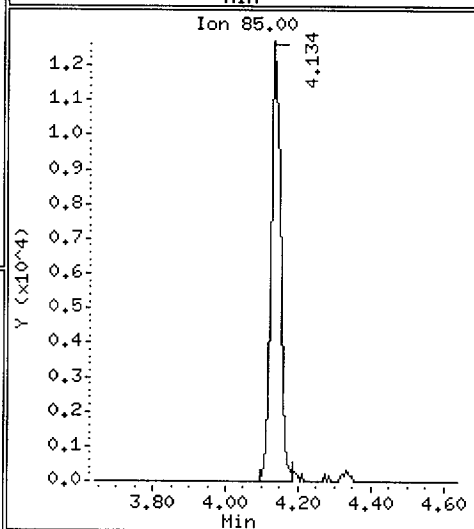
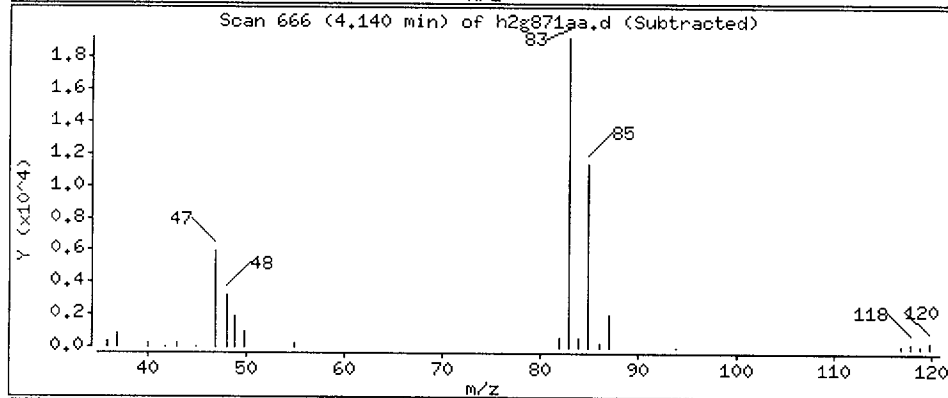
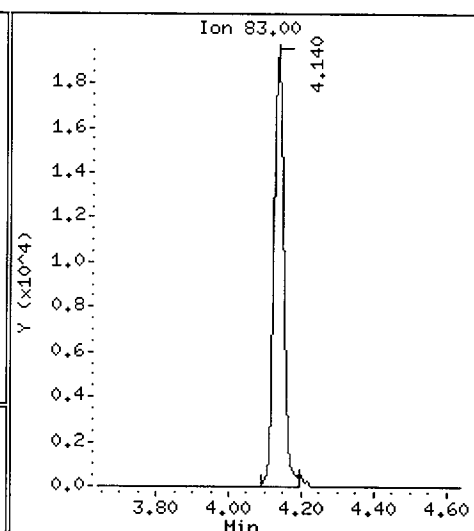
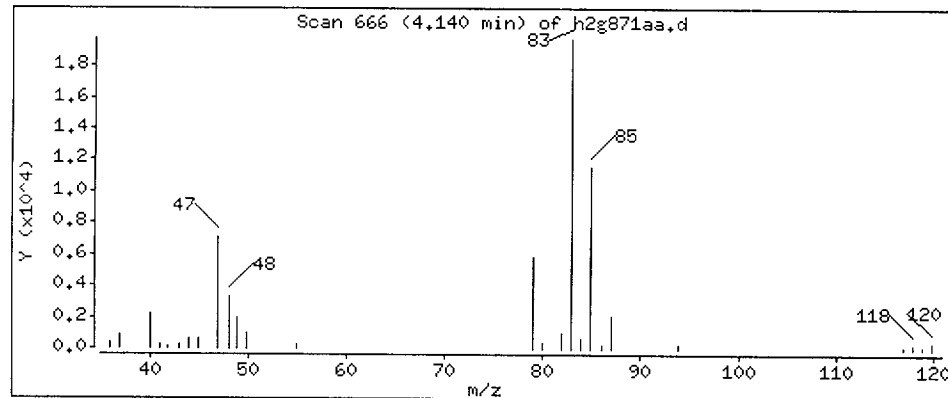
Operator: 22980

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,,,

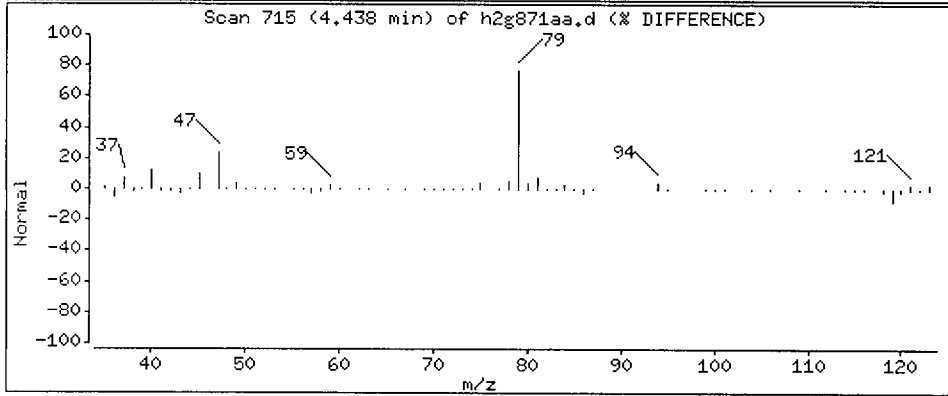
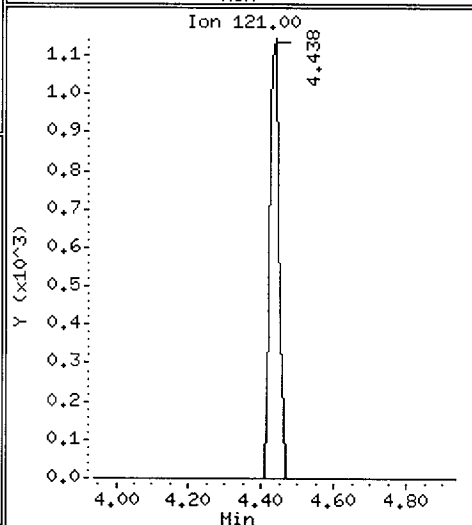
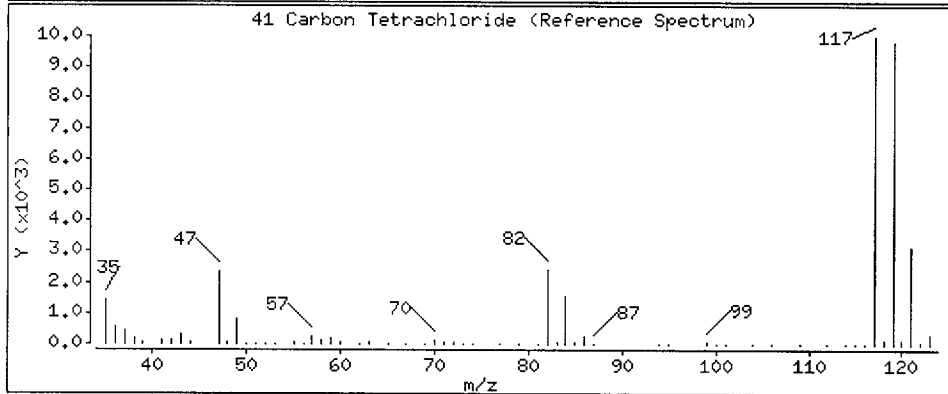
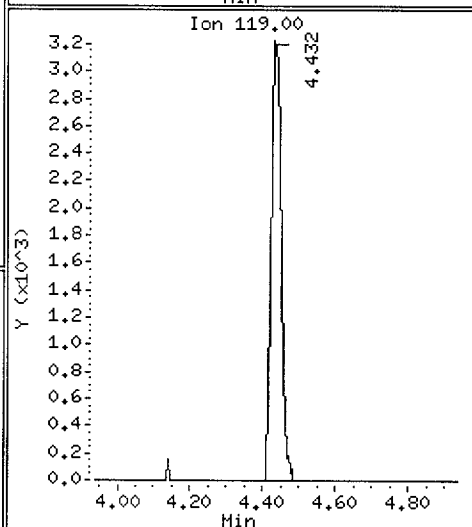
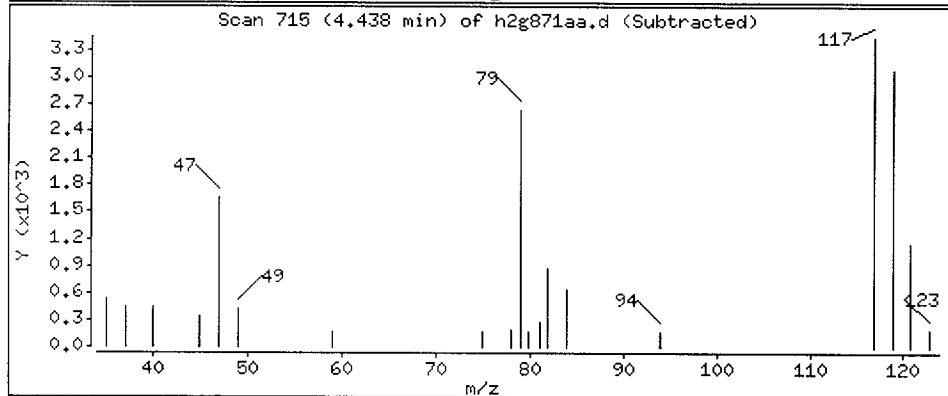
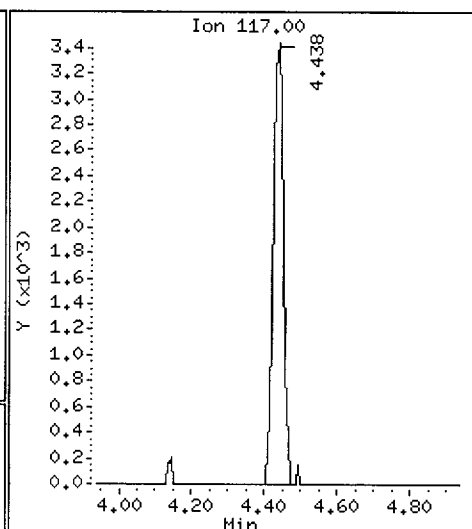
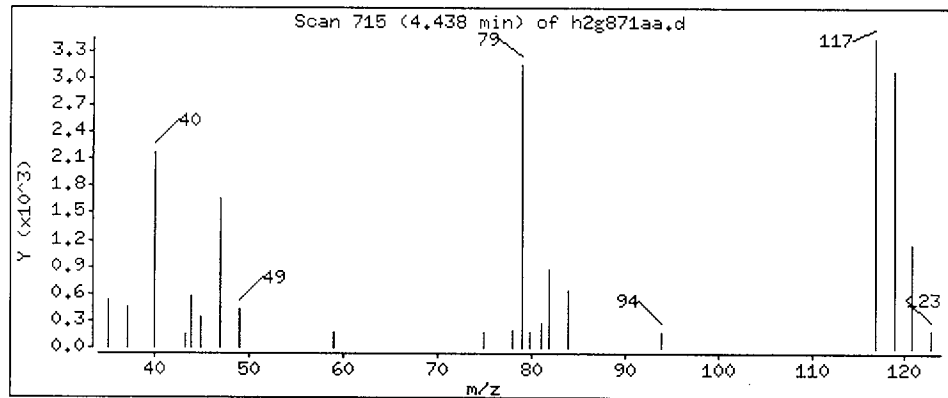
Operator: 22980

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,,,

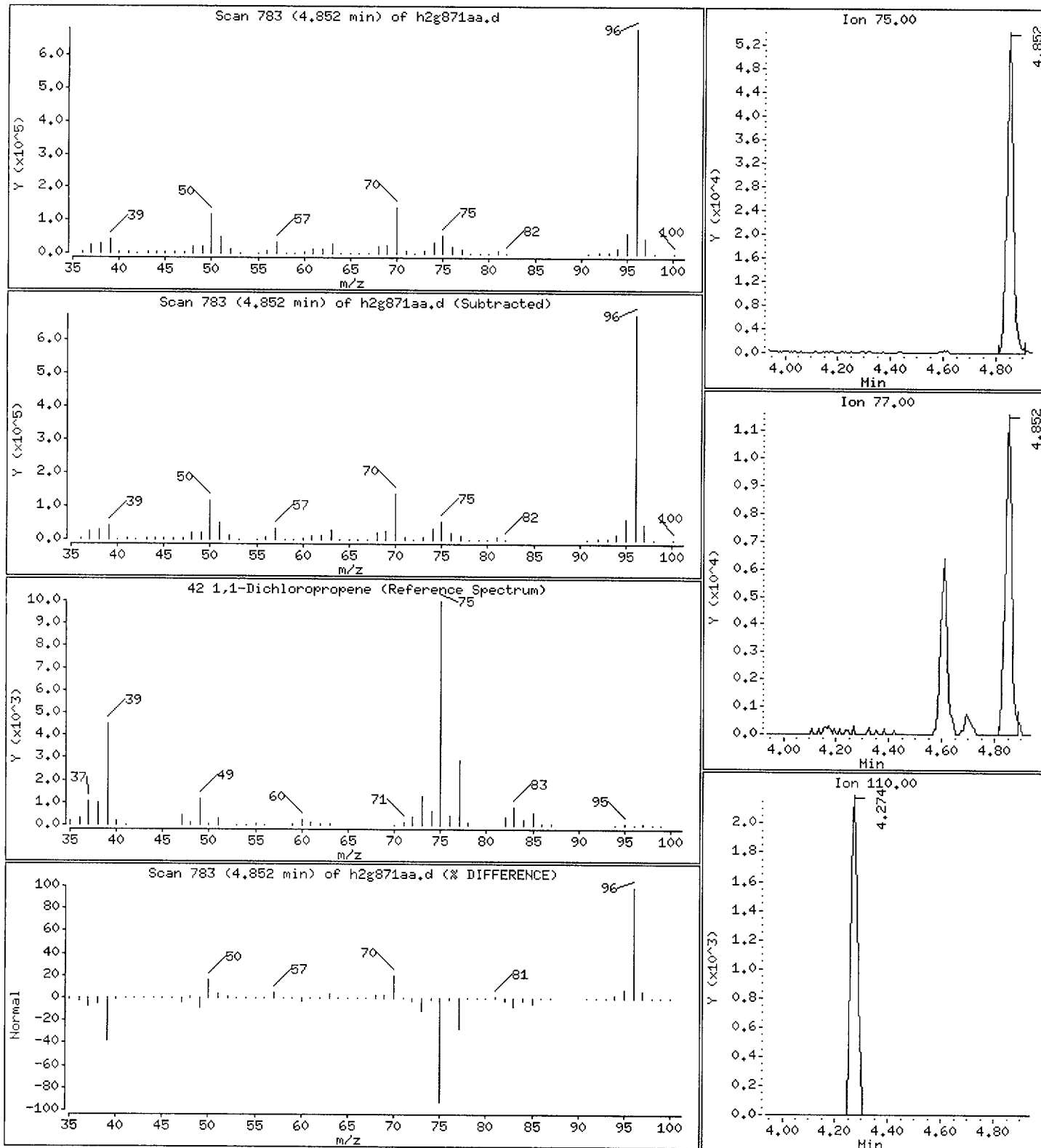
Operator: 22980

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,,,

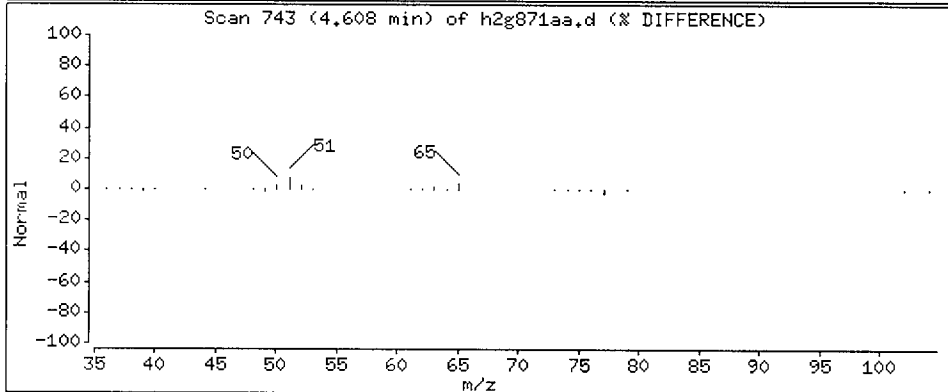
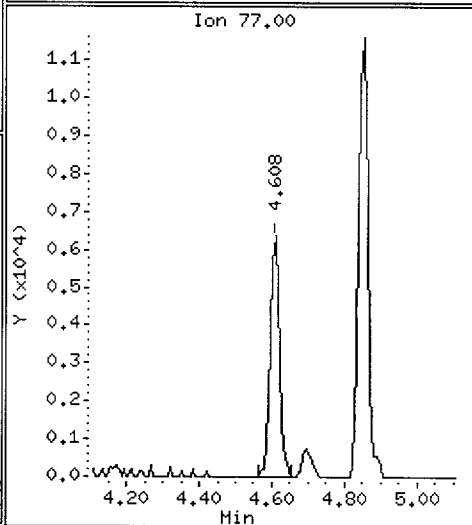
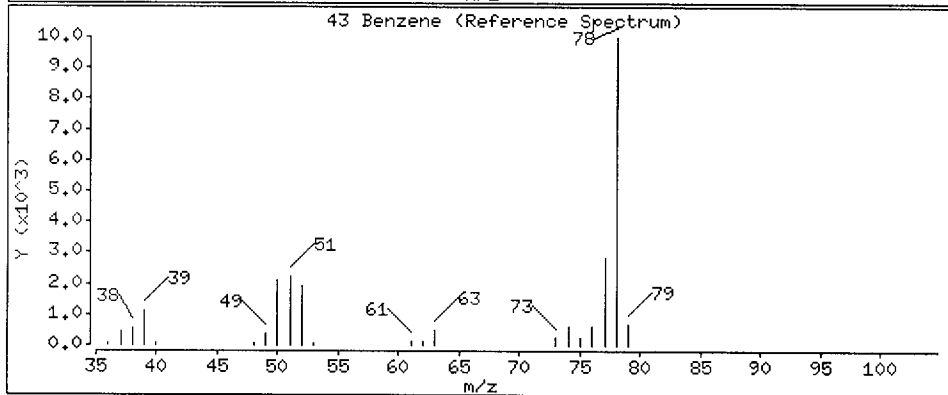
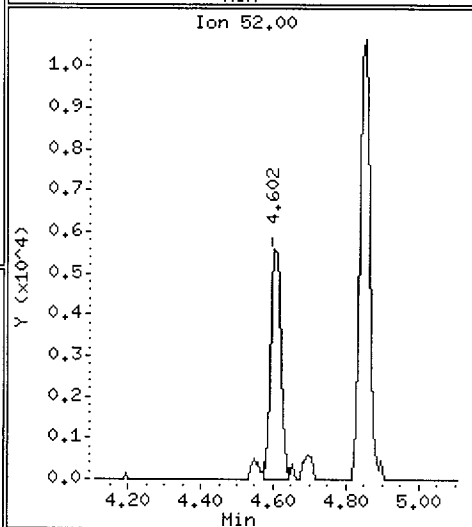
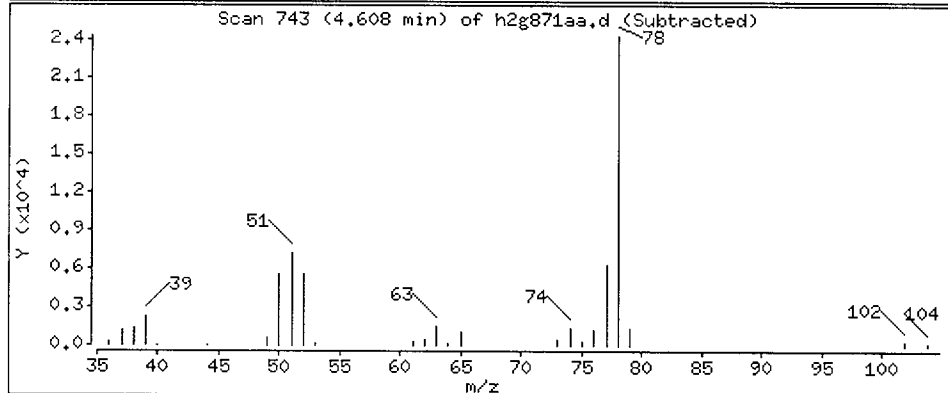
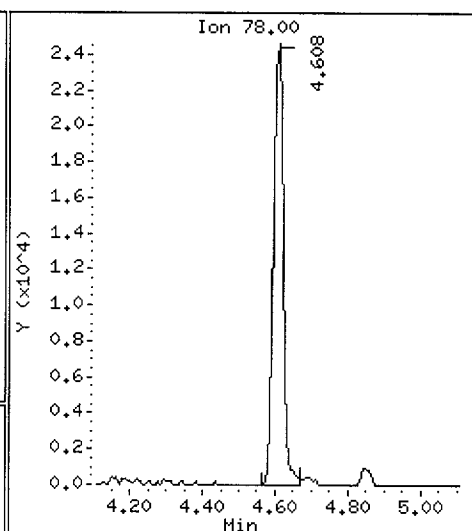
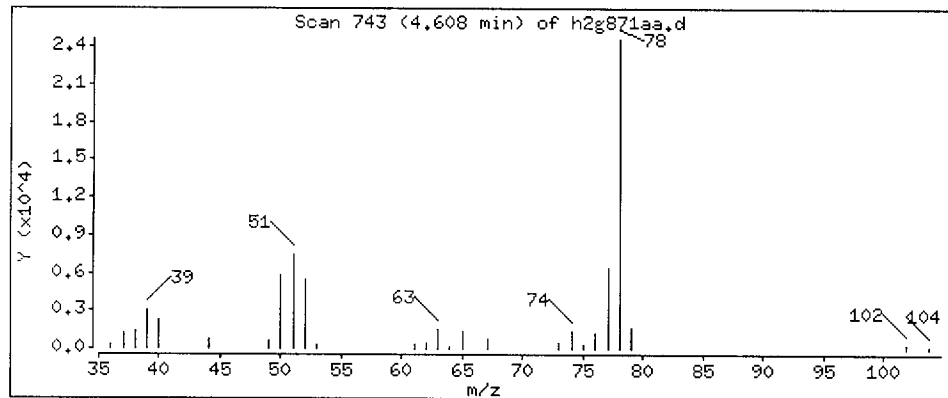
Operator: 22980

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,,

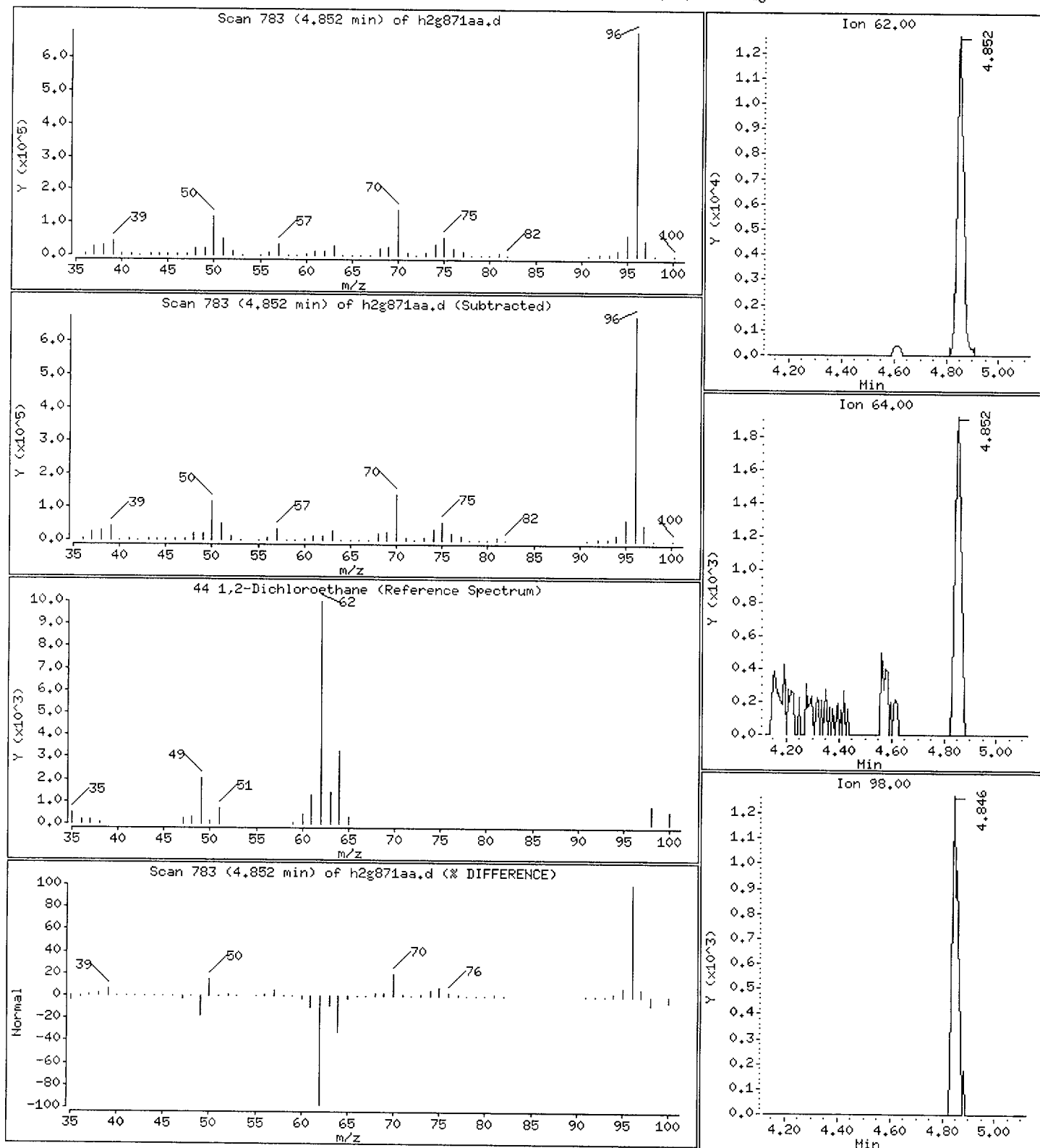
Operator: 22980

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,,,

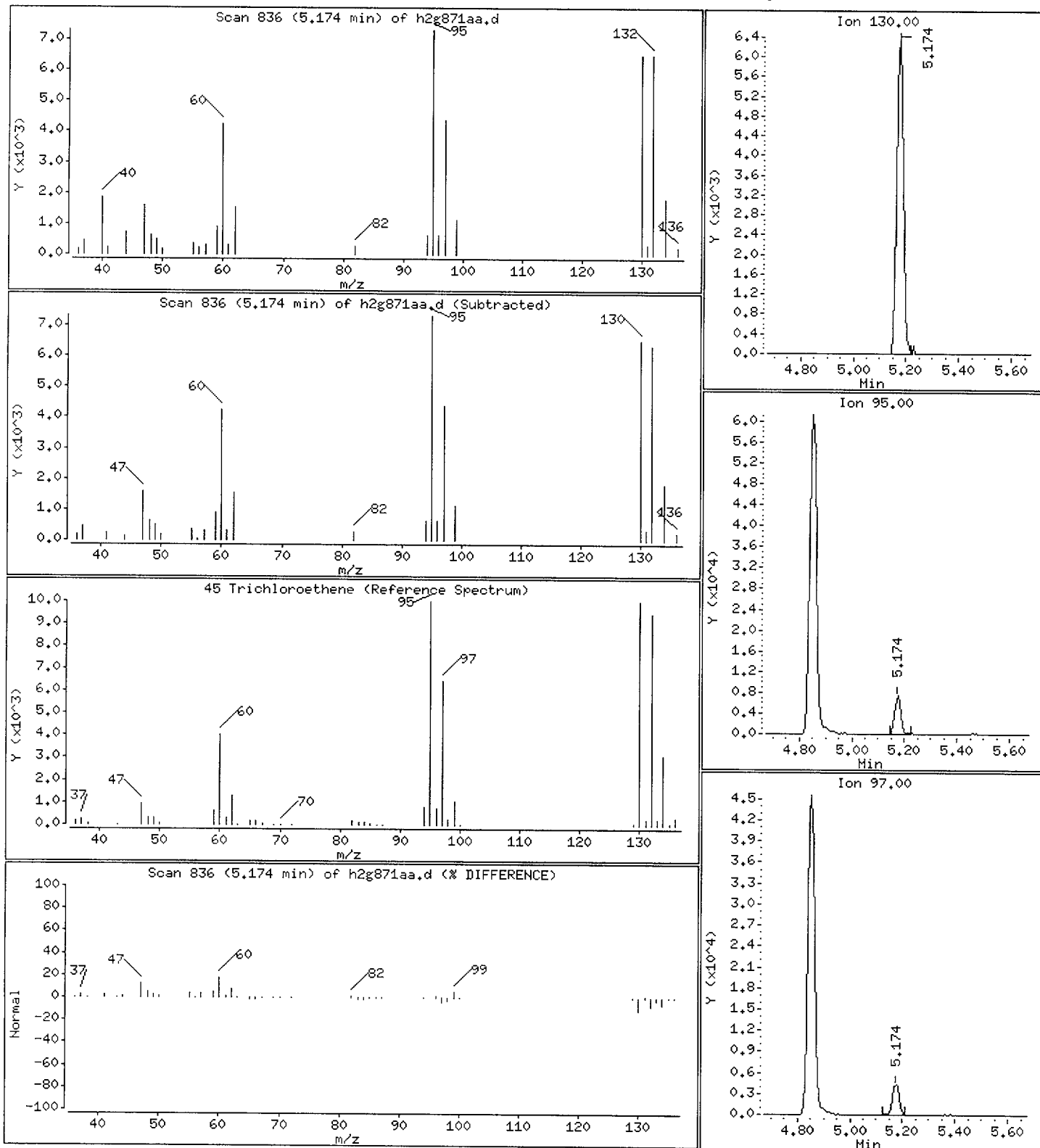
Operator: 22980

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,,,

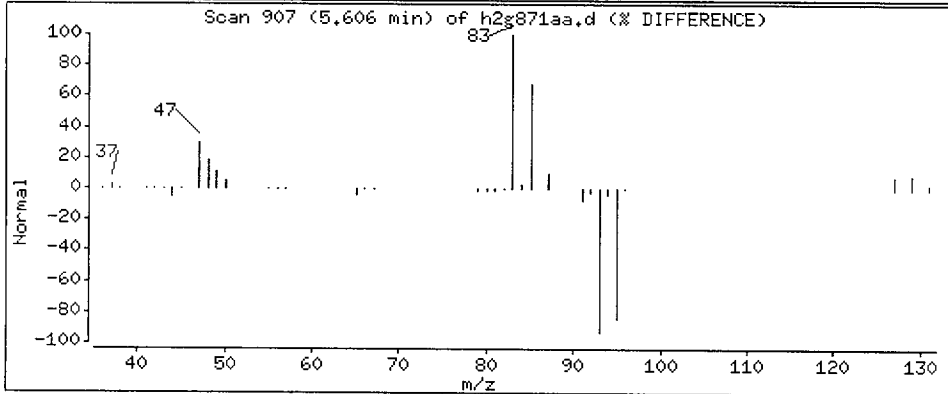
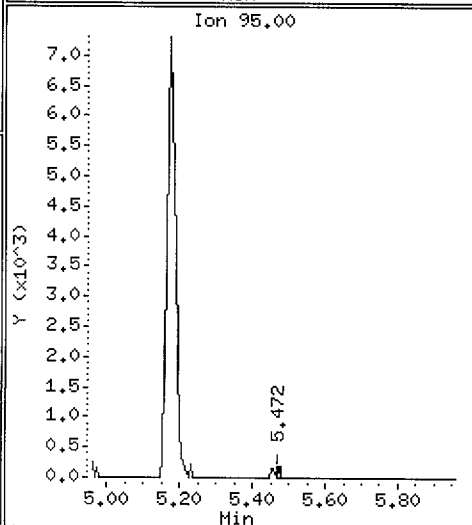
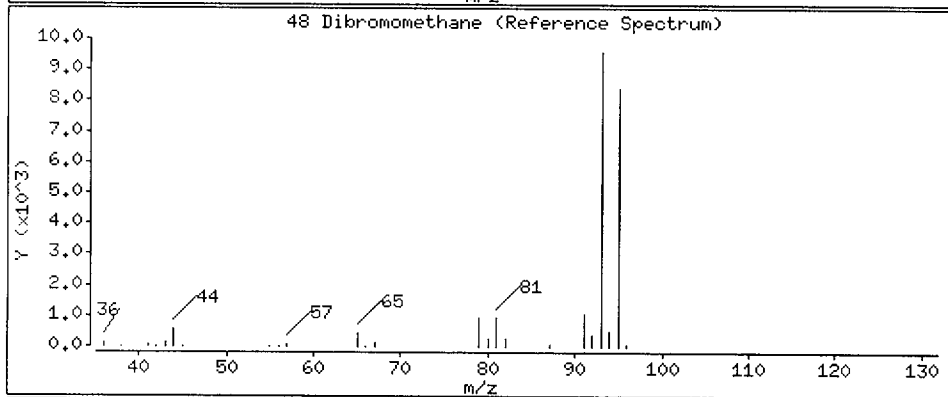
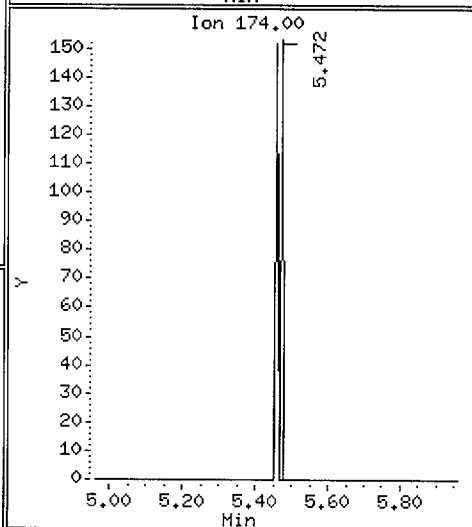
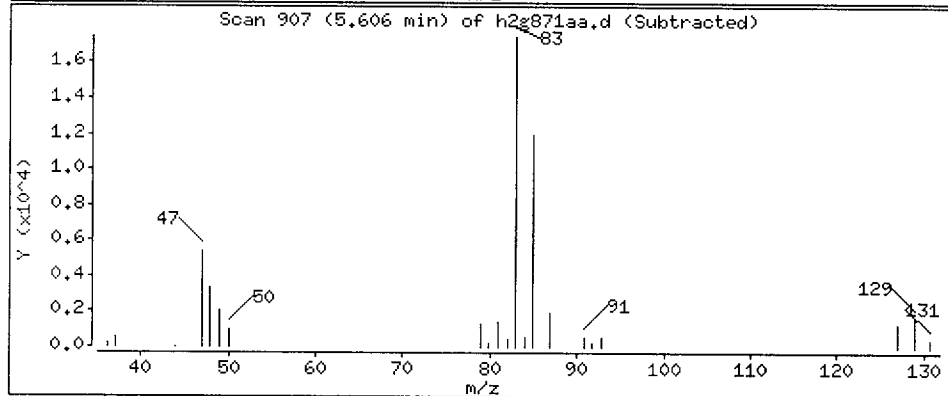
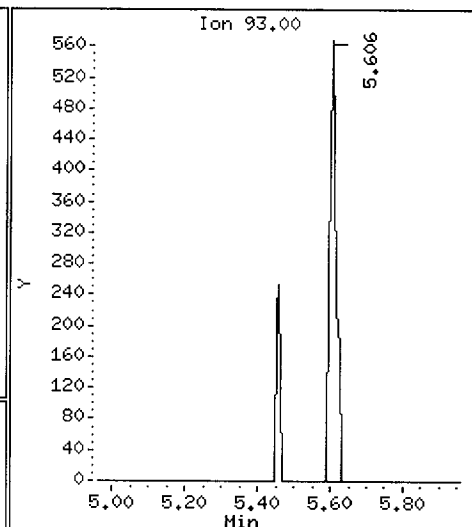
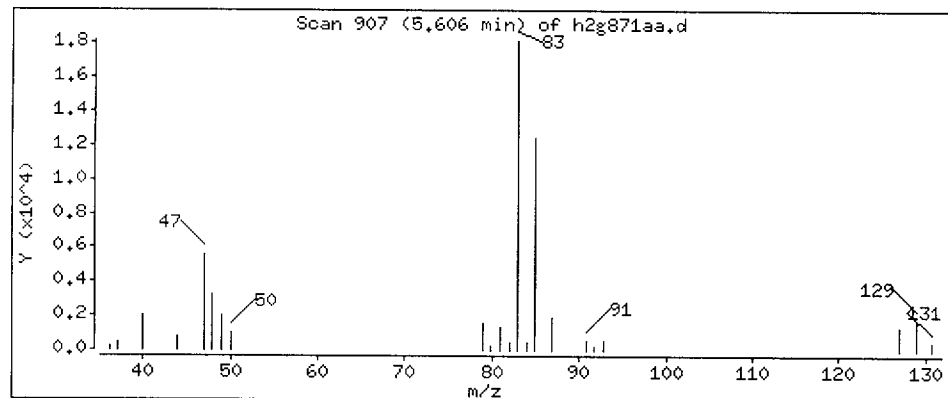
Operator: 22980

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,,,

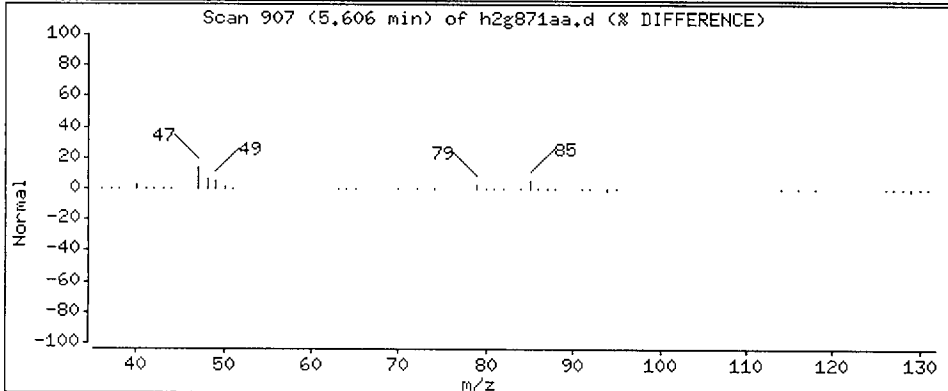
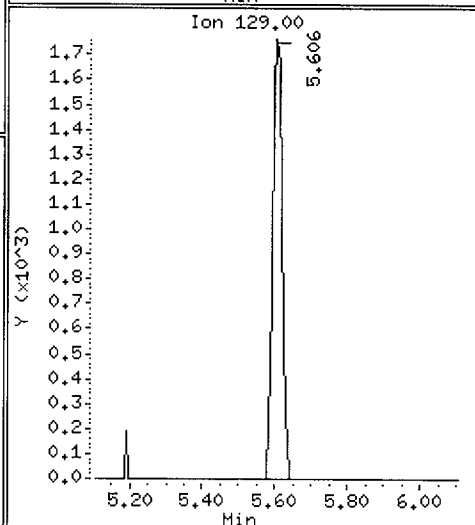
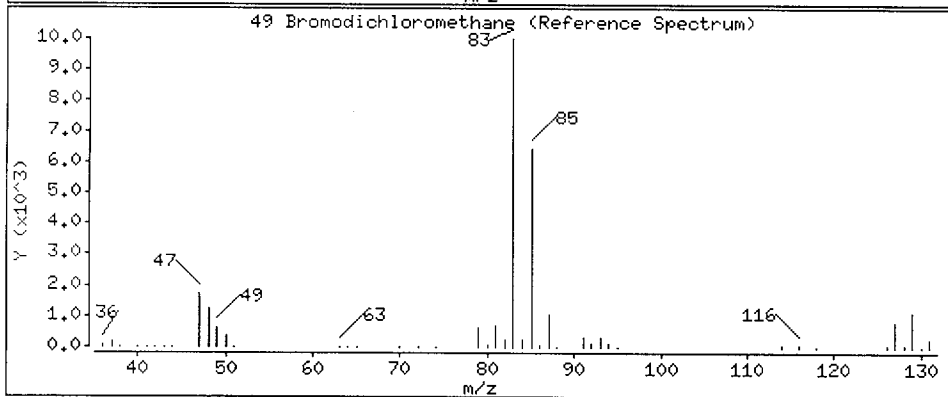
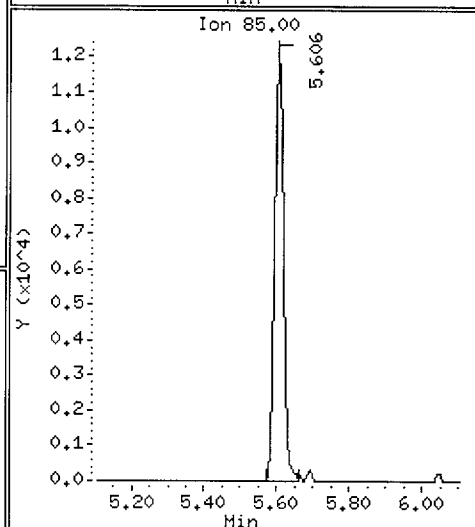
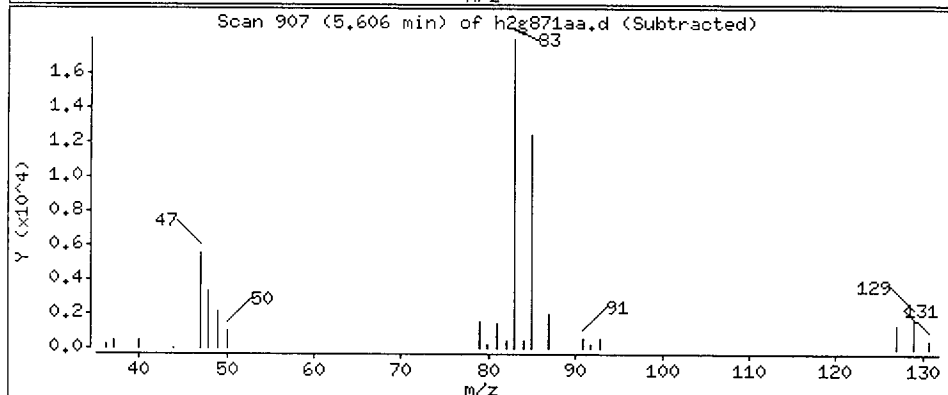
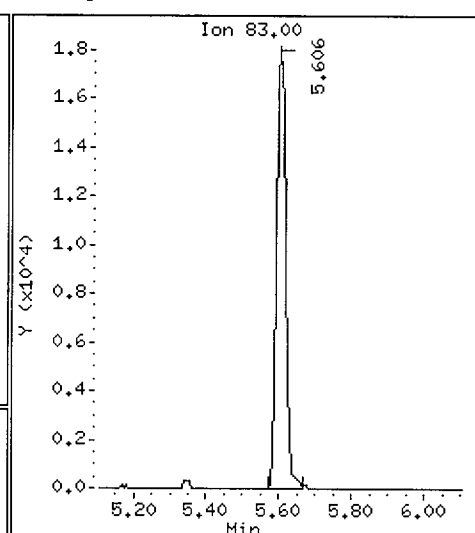
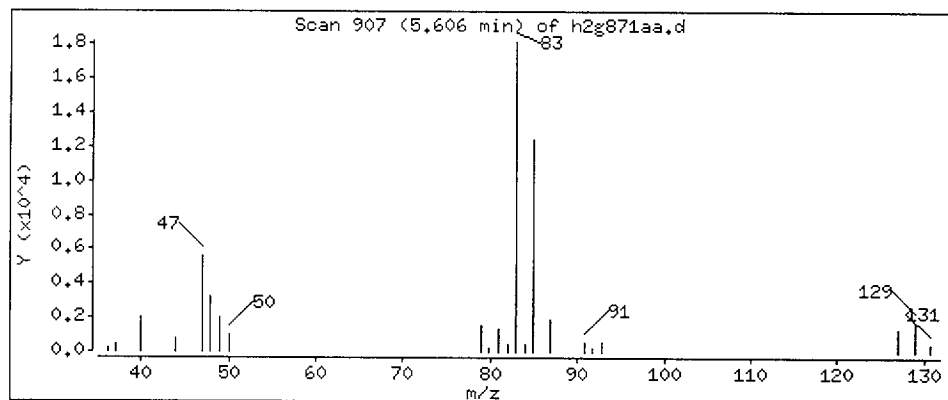
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

49 Bromodichloromethane

Concentration: 0.029784 ug



Data File: /chem/gcms/mx.i/%040706,b/h2g871aa,d

Date : 07-APR-2006 12:06

Client ID: G-2910-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G871AA,1,0,,,

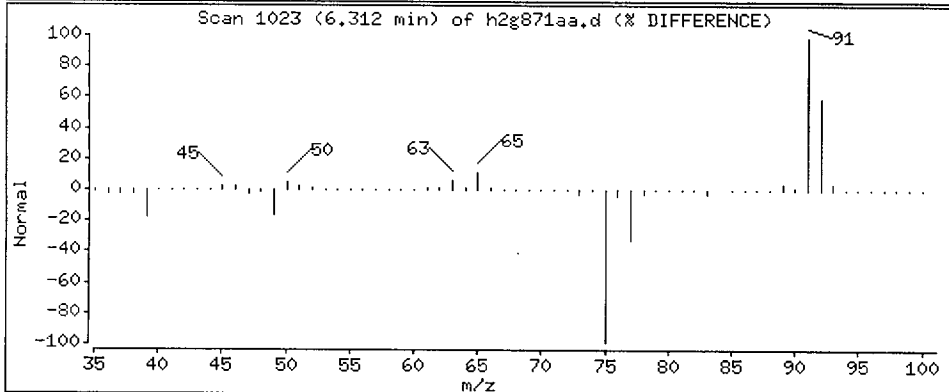
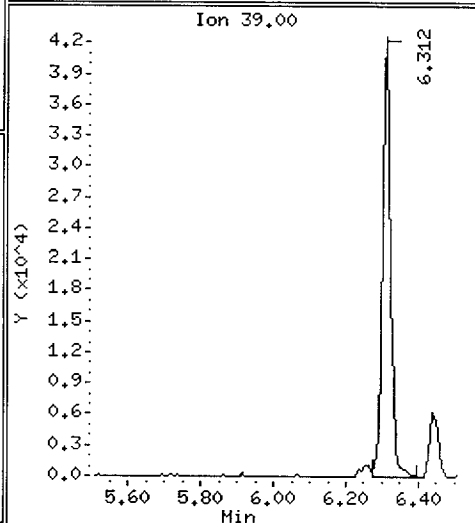
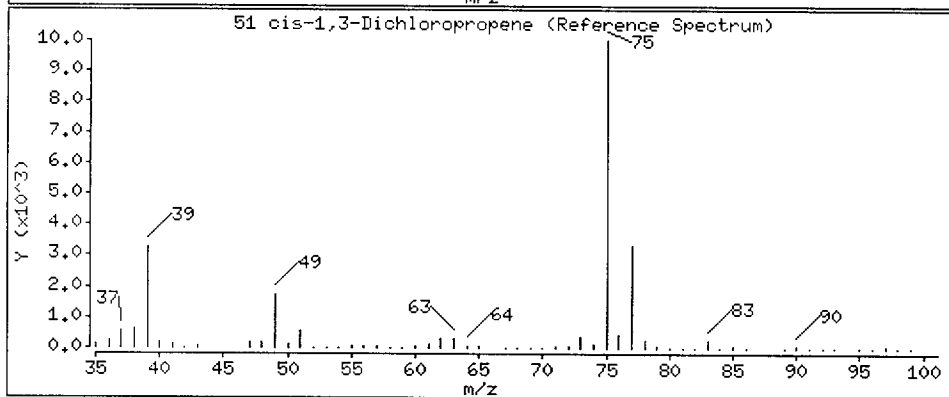
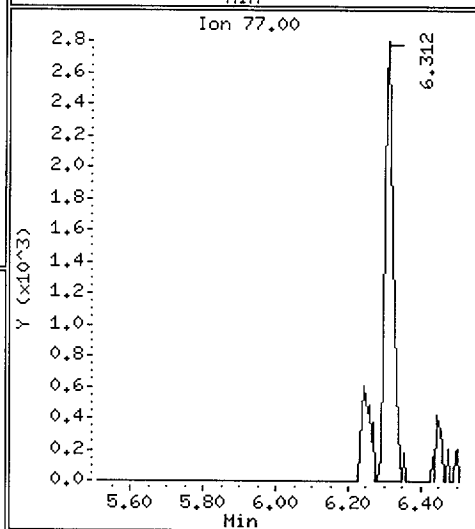
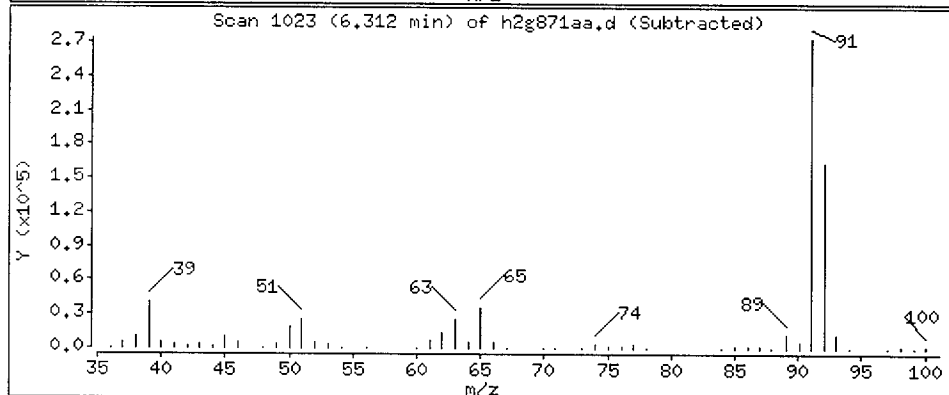
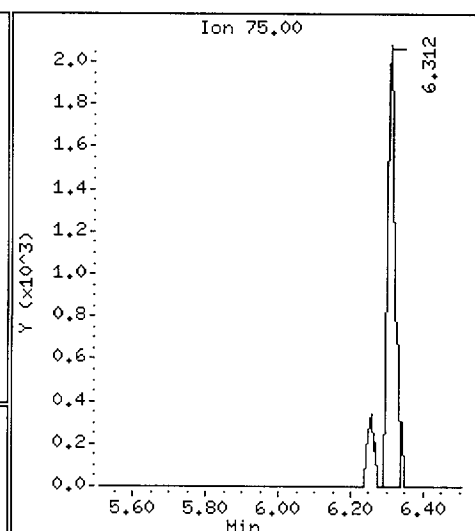
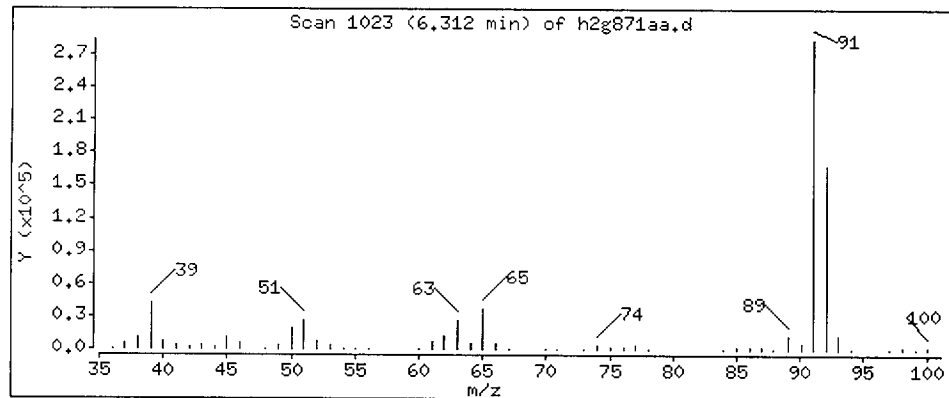
Operator: 22980

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,,,

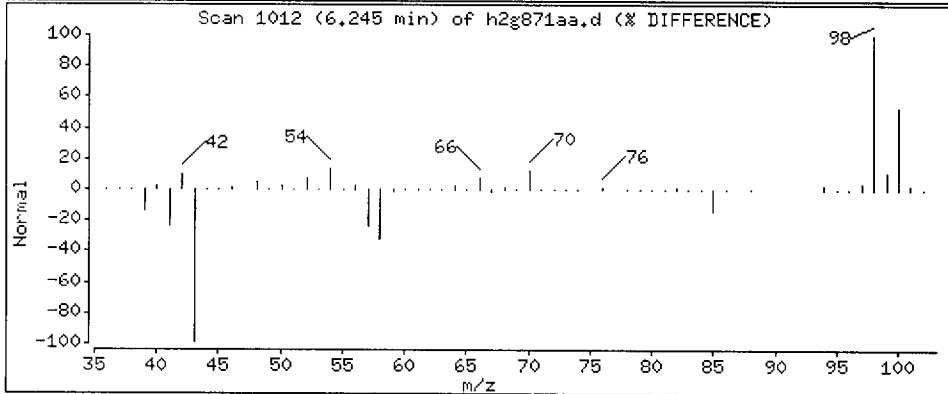
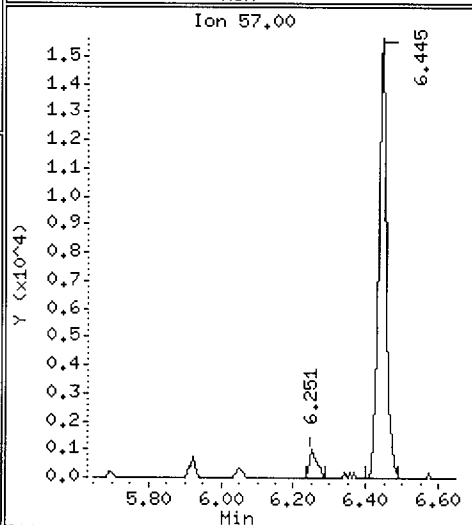
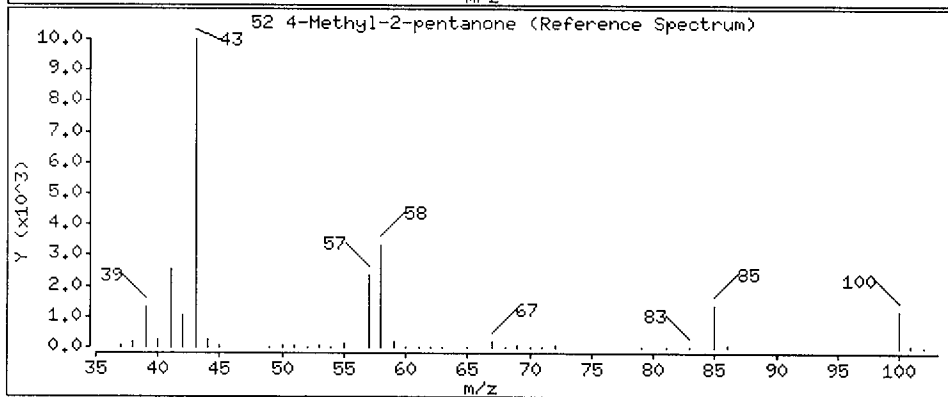
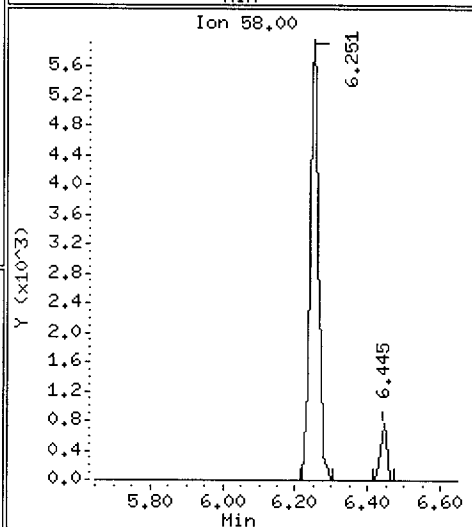
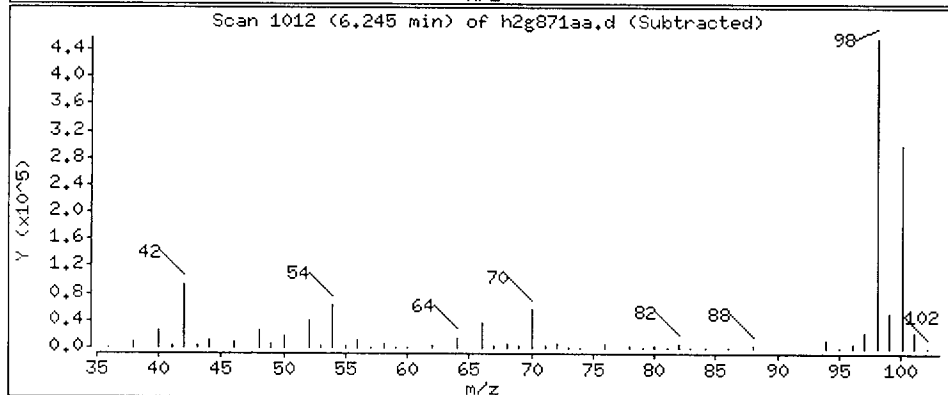
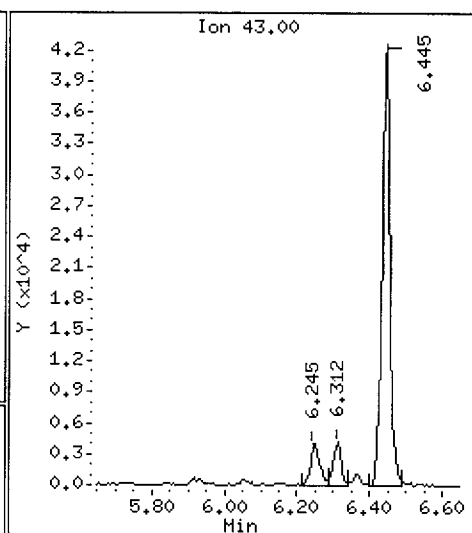
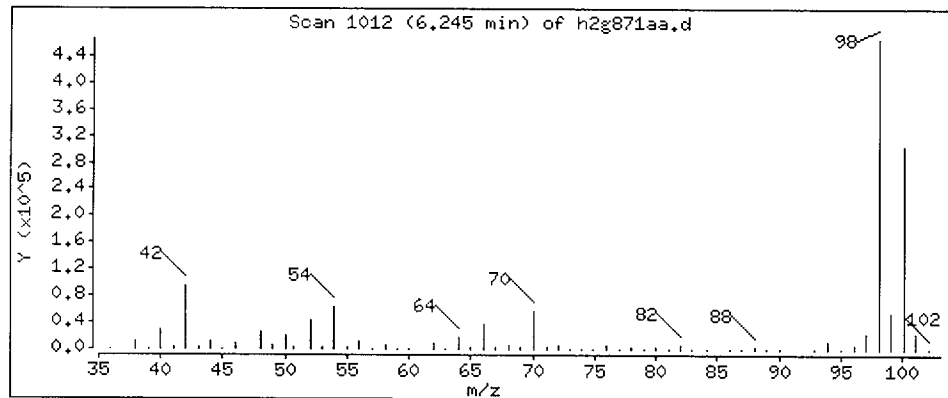
Operator: 22980

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,,,

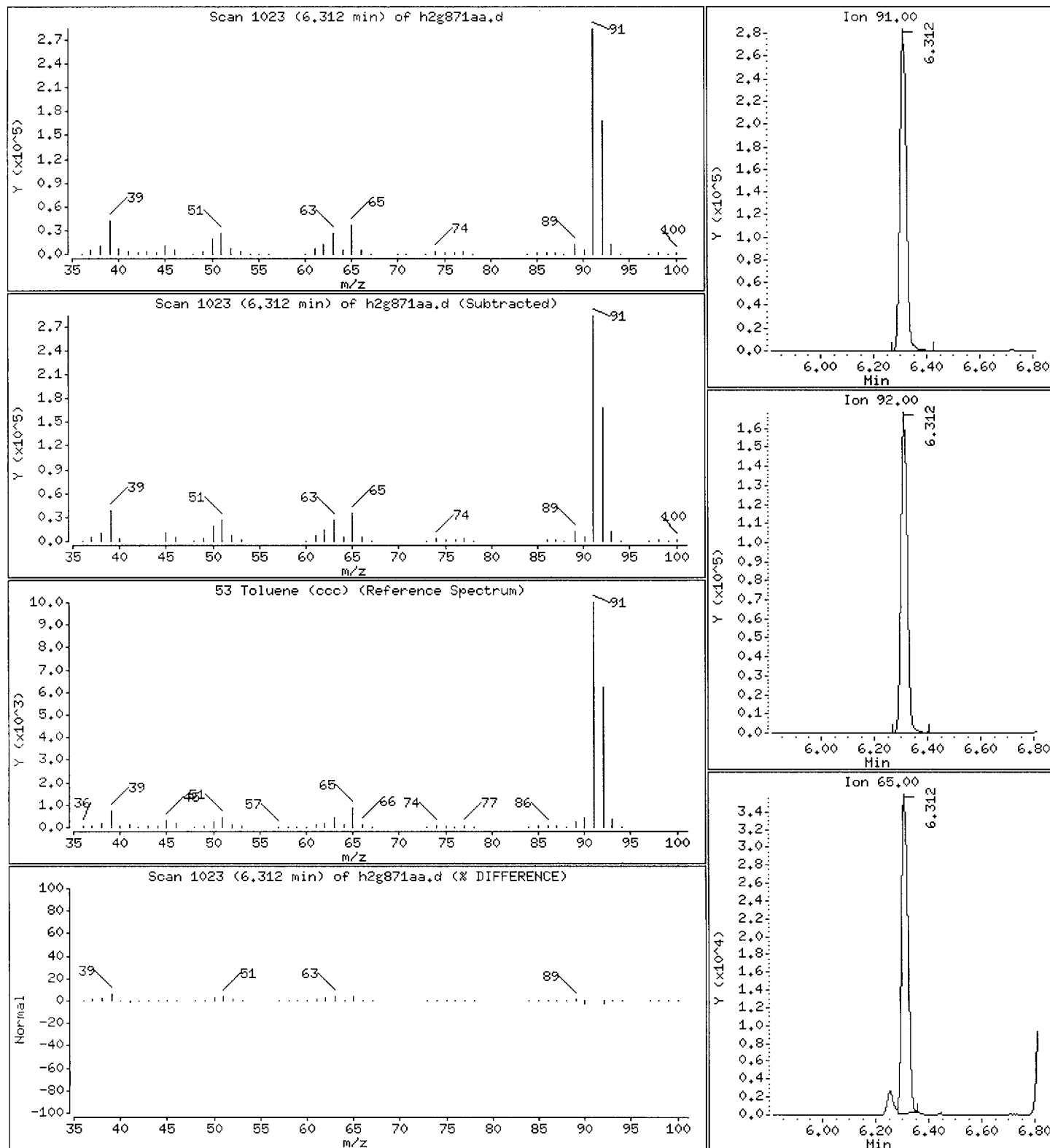
Operator: 22980

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,,,

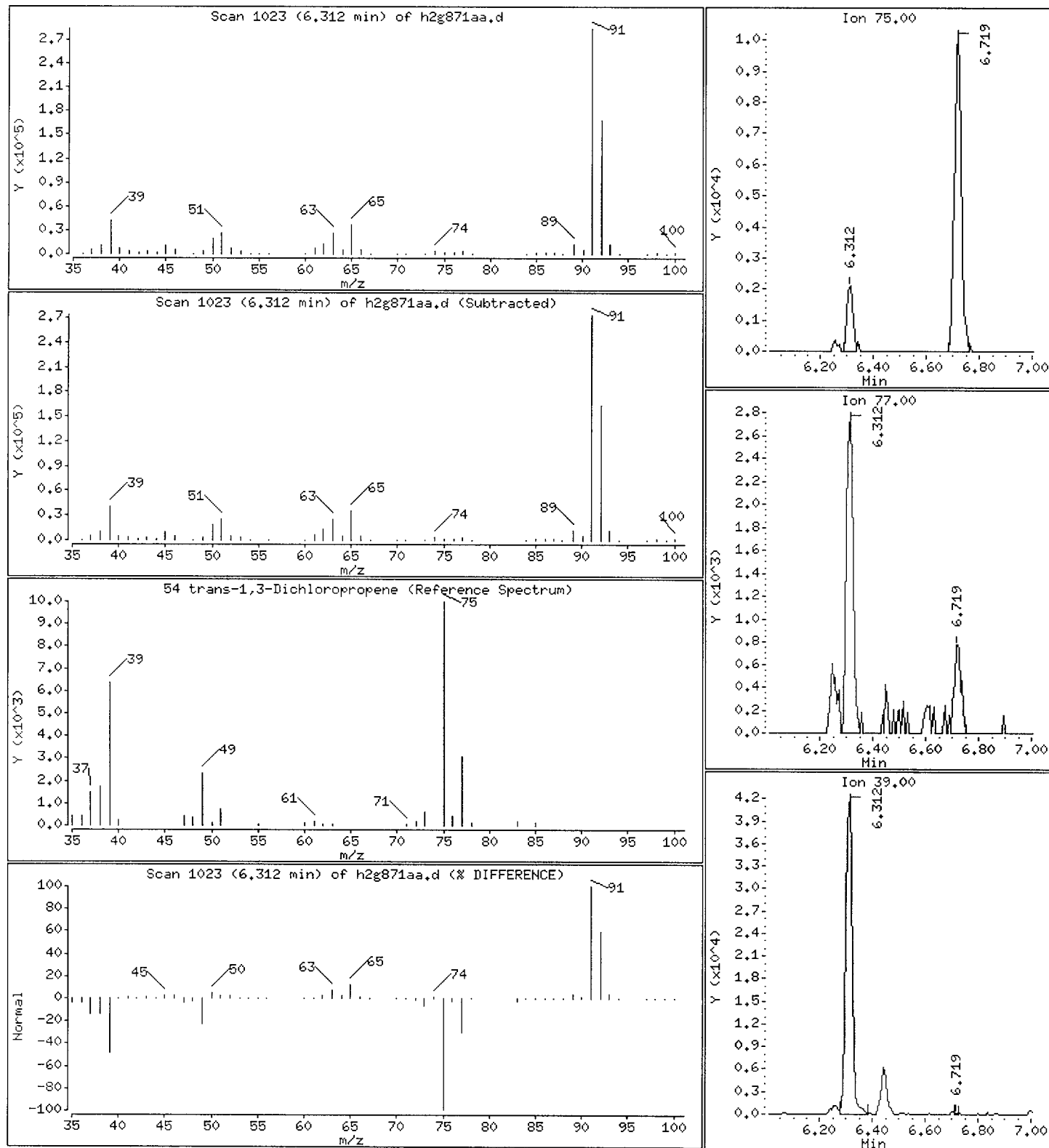
Operator: 22980

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,,,

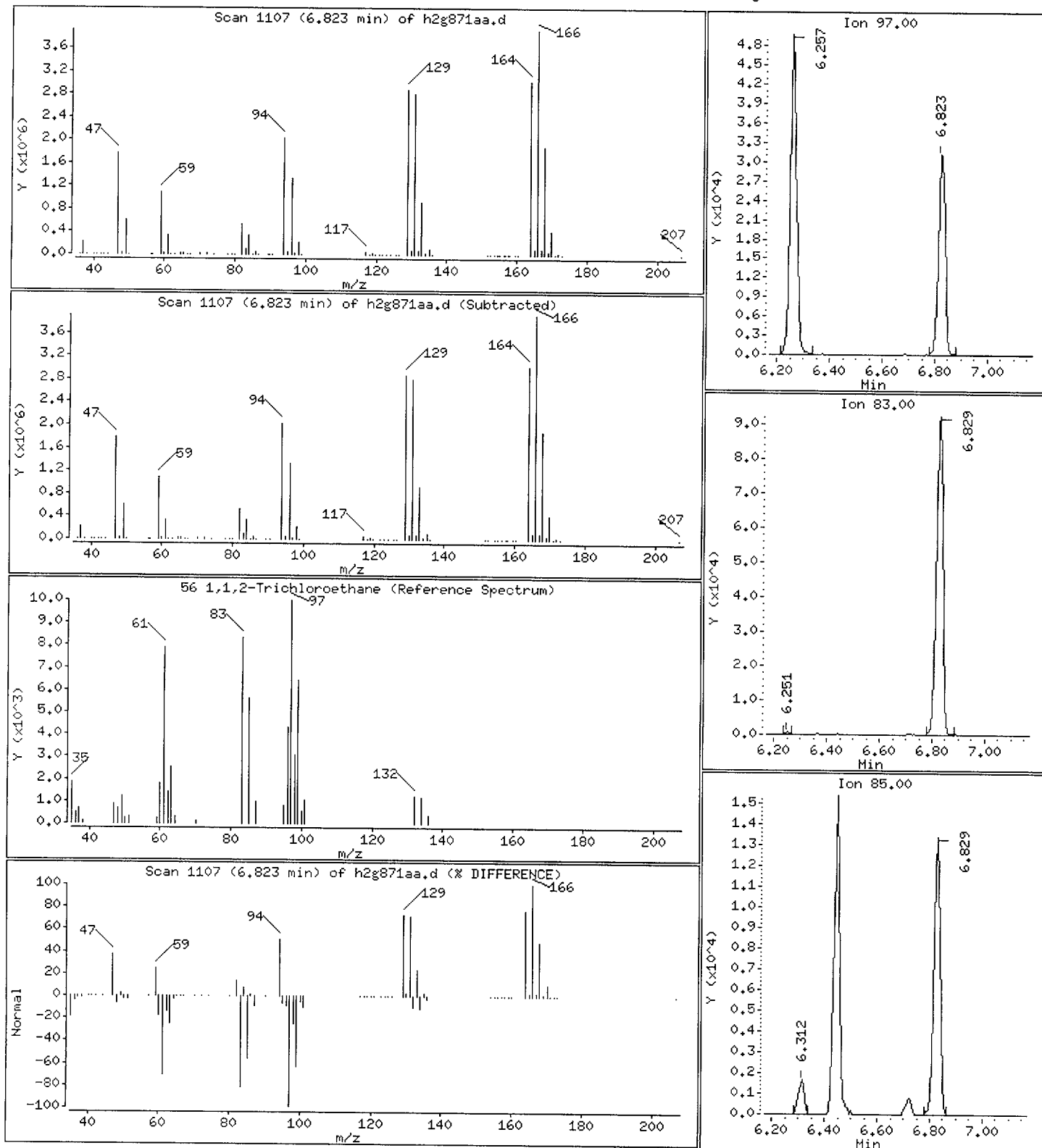
Operator: 22980

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,,,

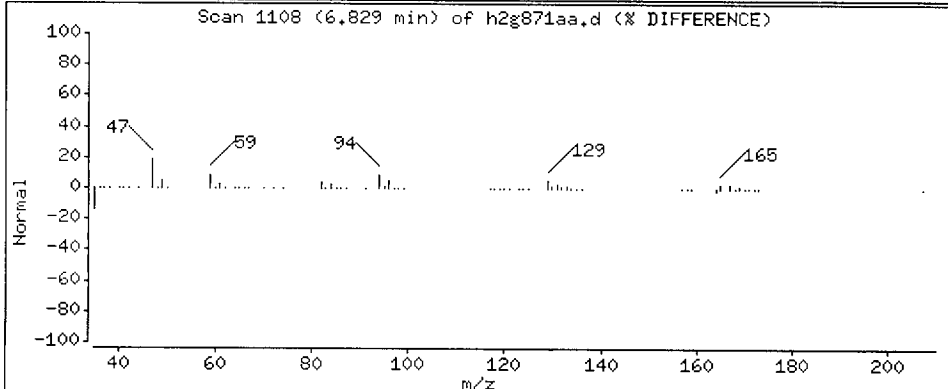
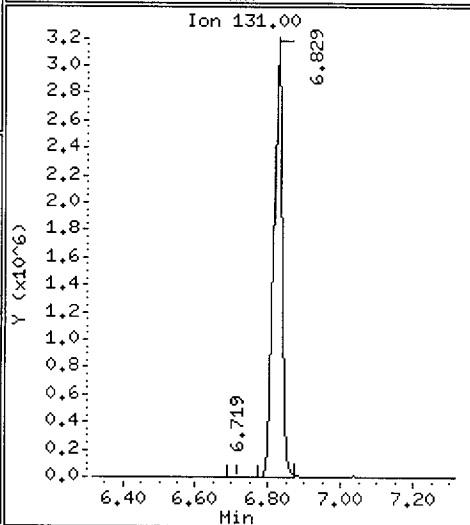
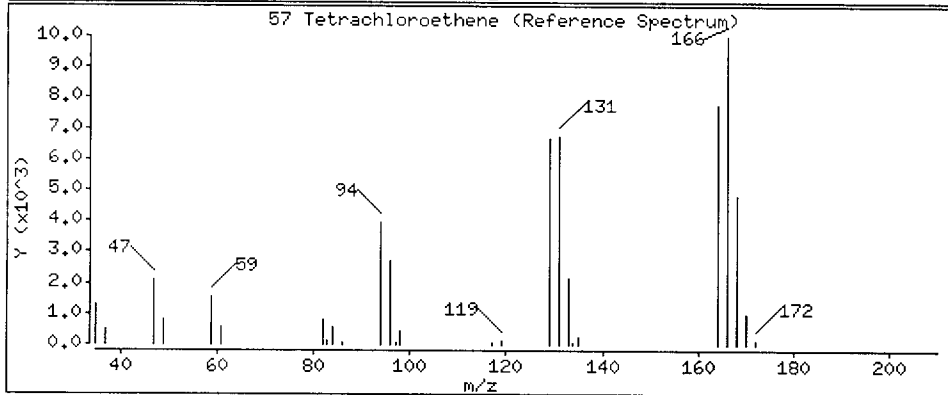
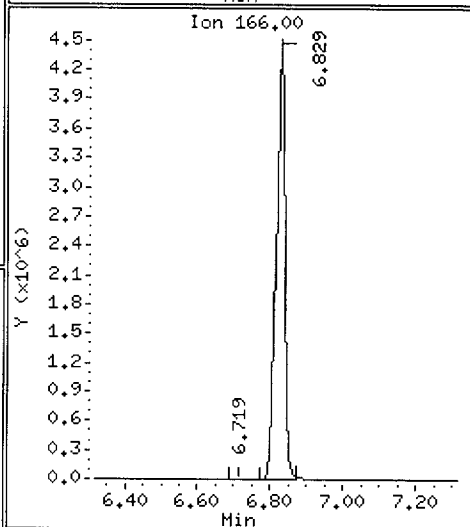
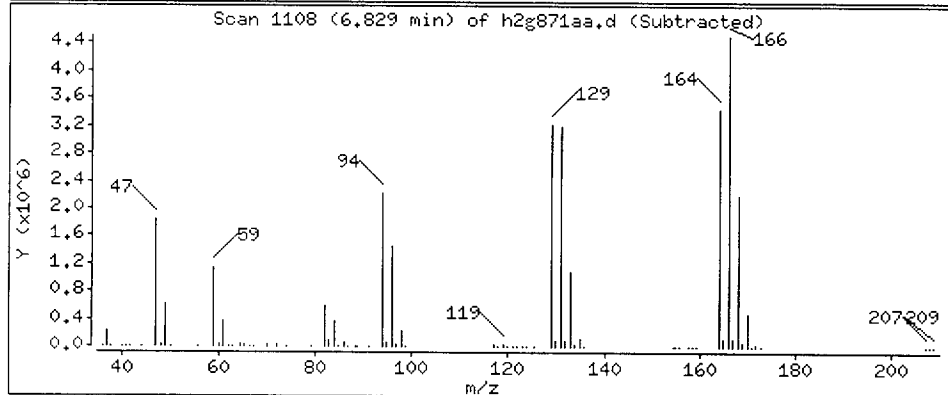
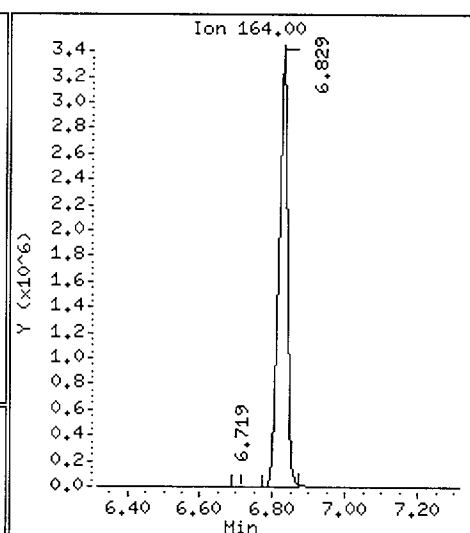
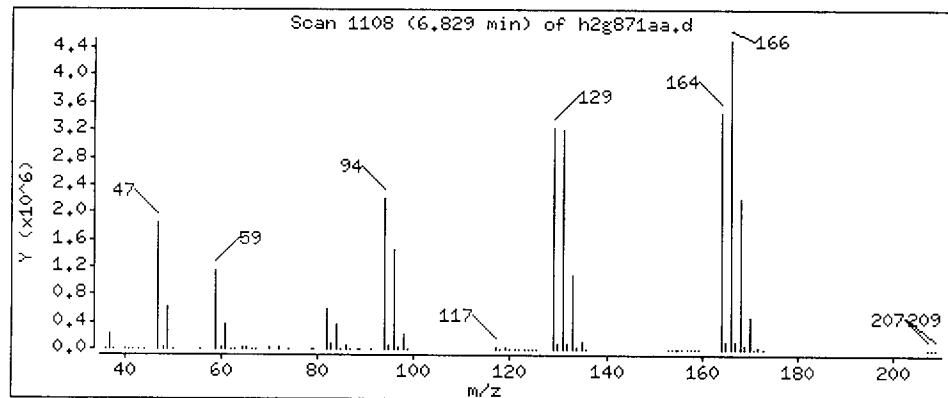
Operator: 22980

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,,,

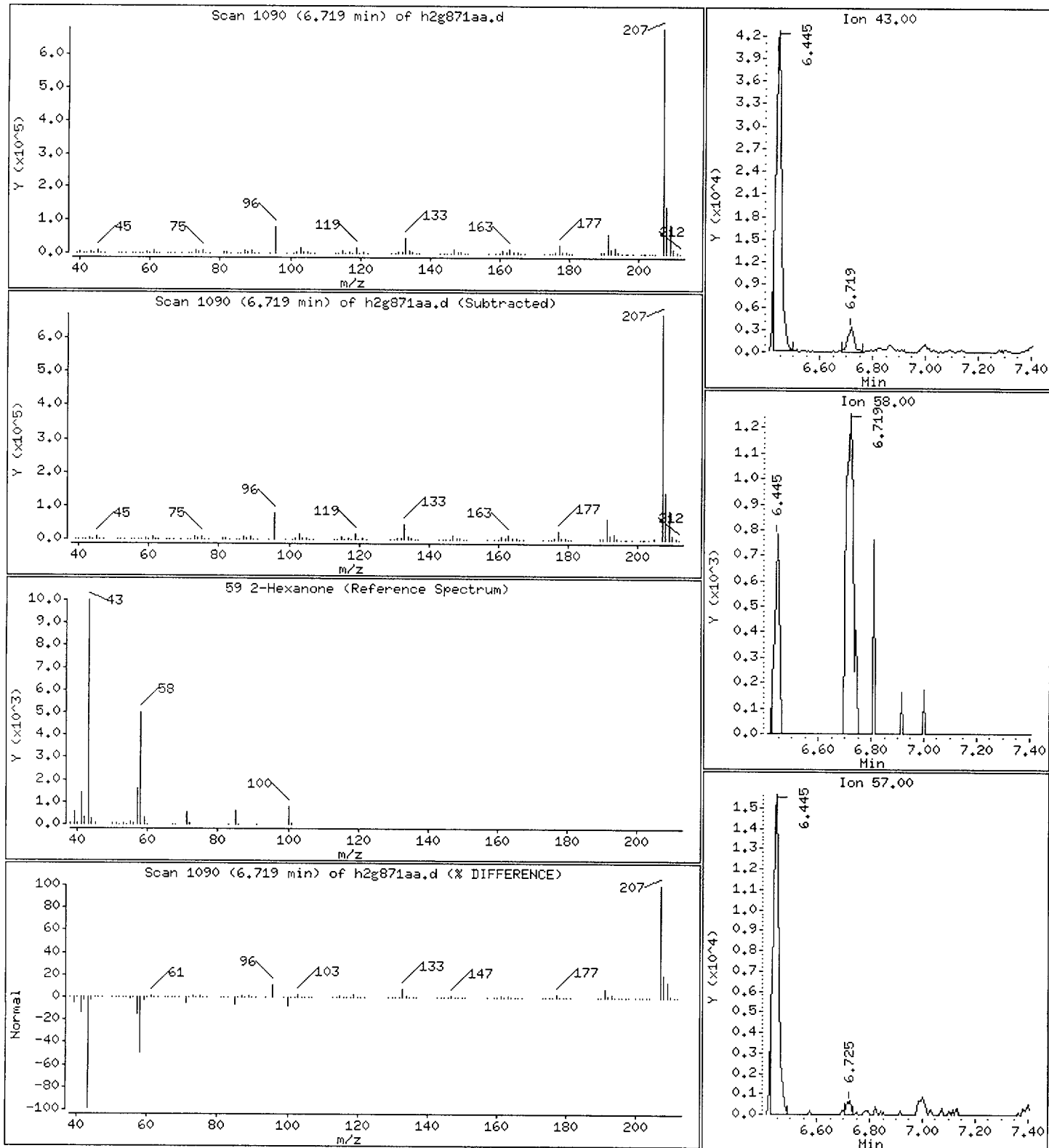
Operator: 22980

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,,,

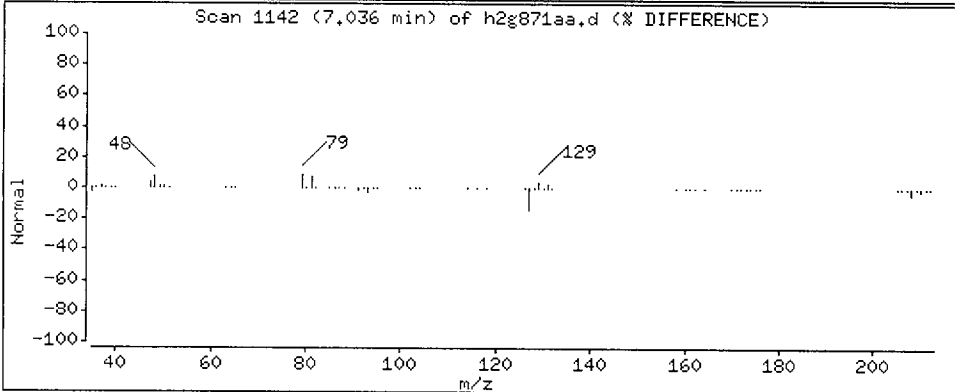
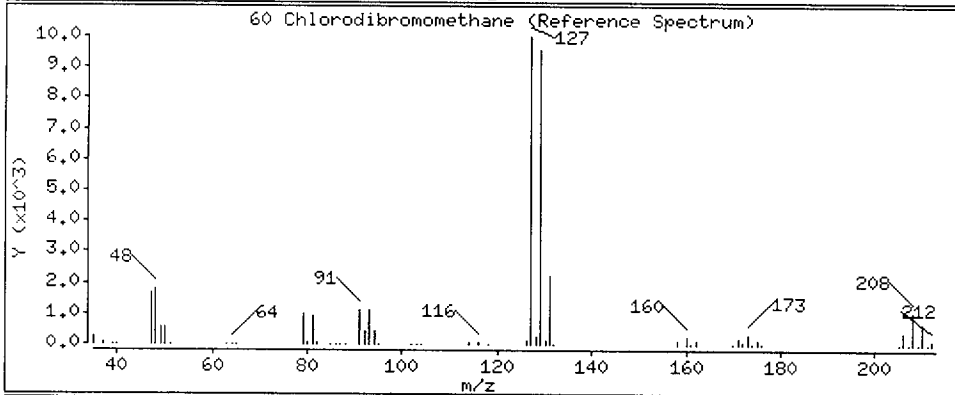
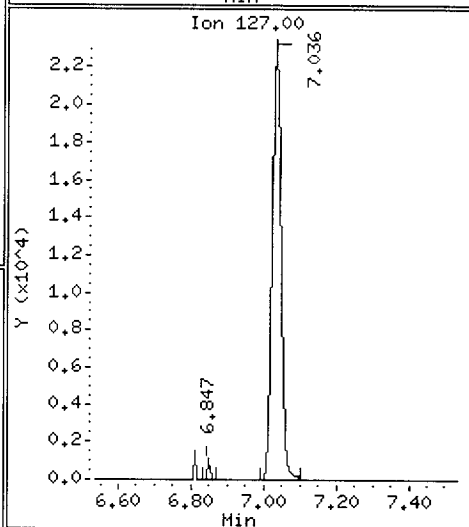
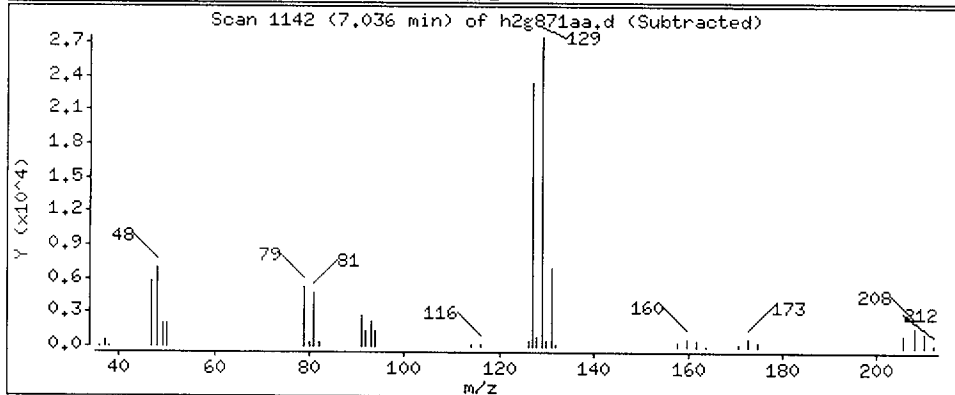
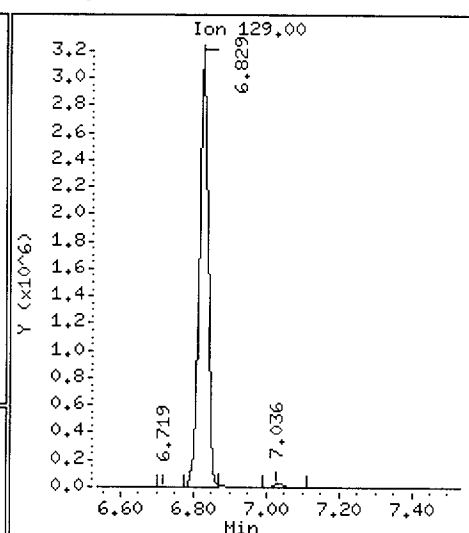
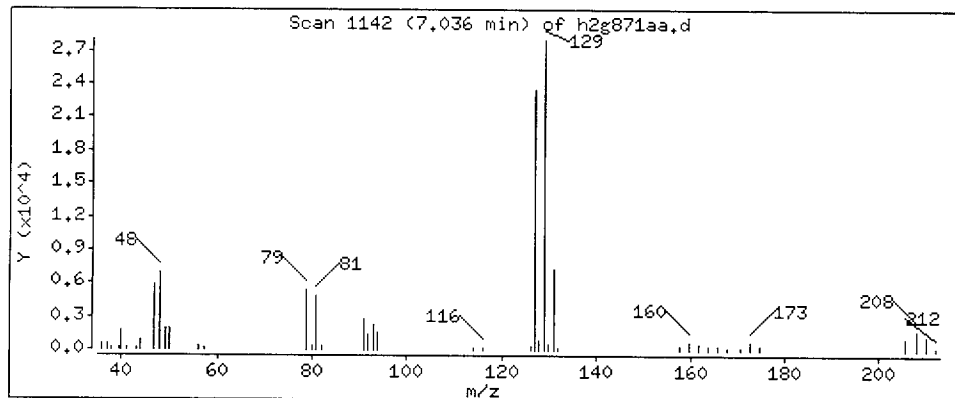
Operator: 22980

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,,,

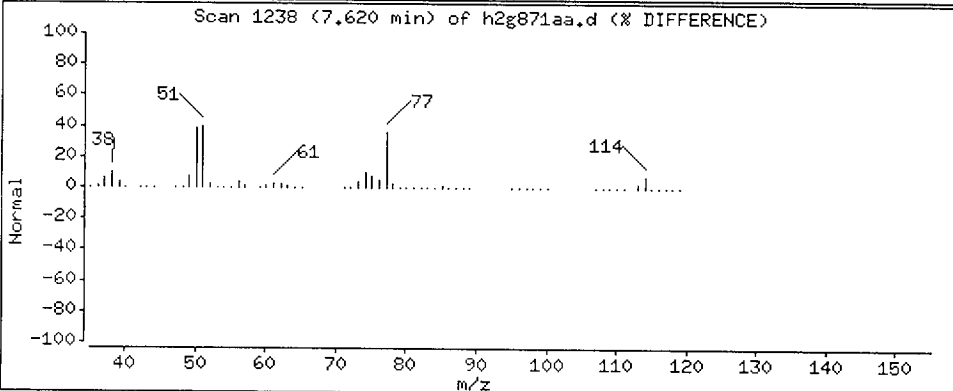
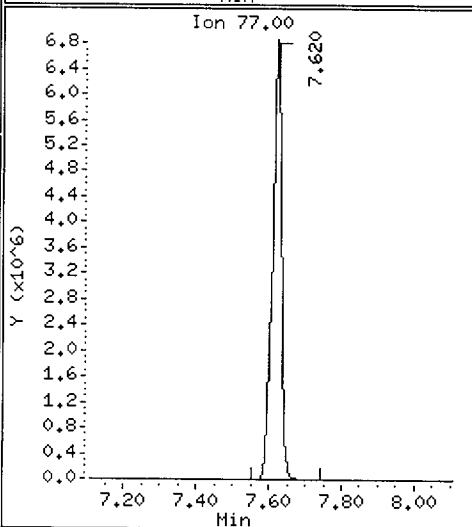
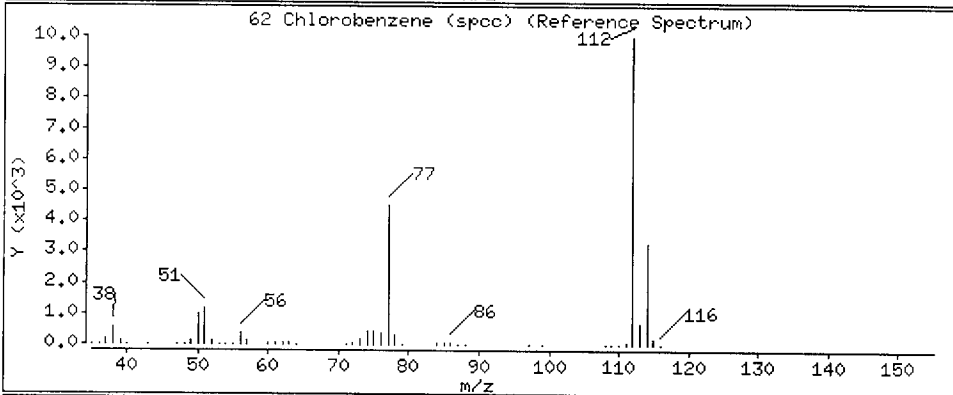
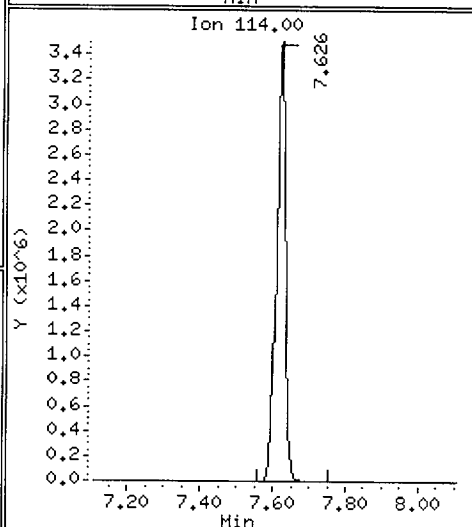
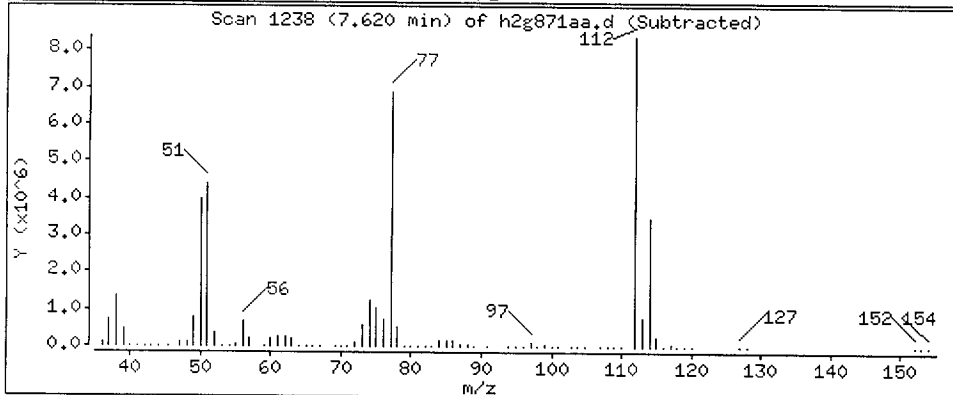
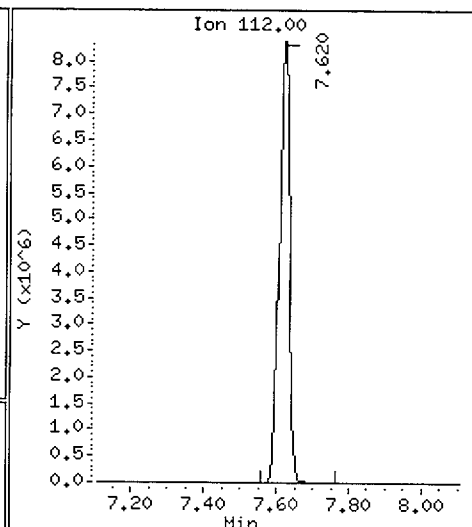
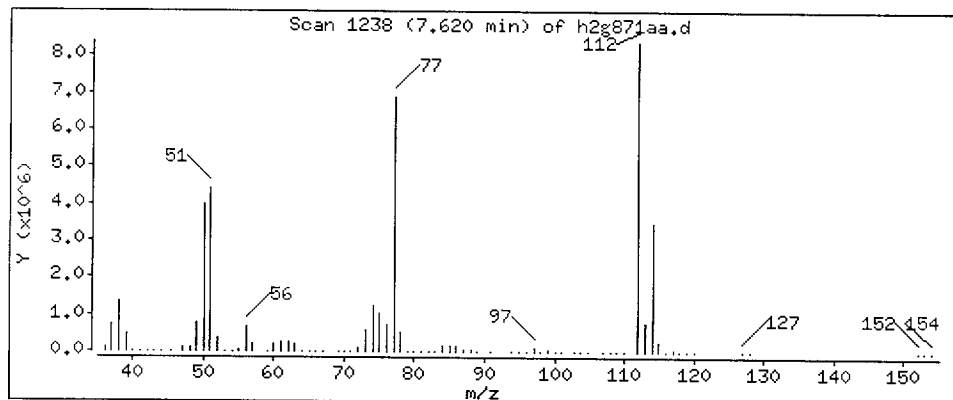
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

62 Chlorobenzene (spoc)

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,,

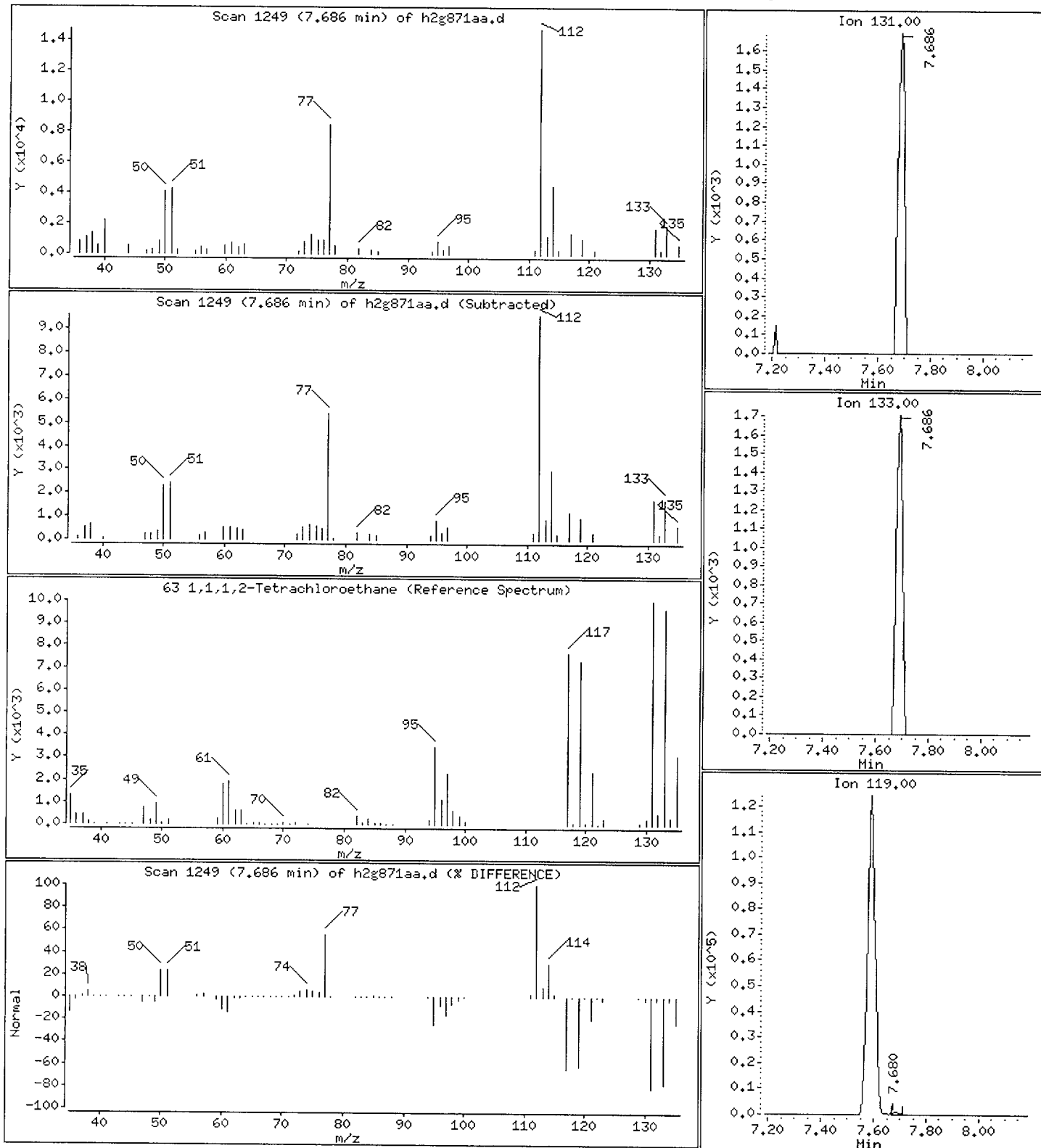
Operator: 22980

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,,,

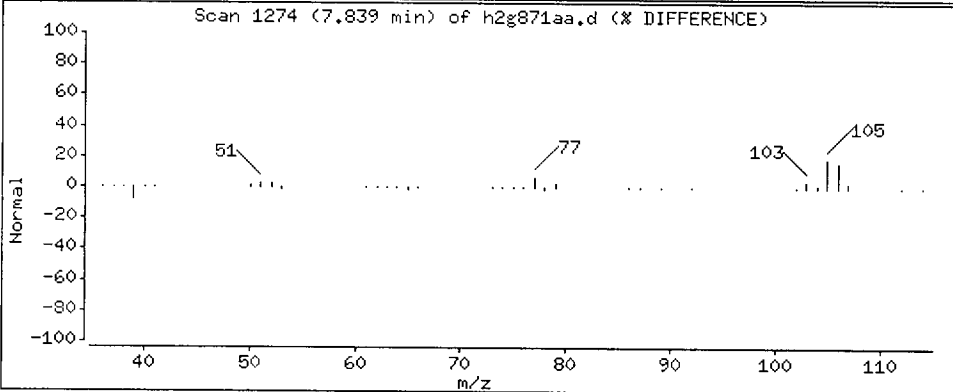
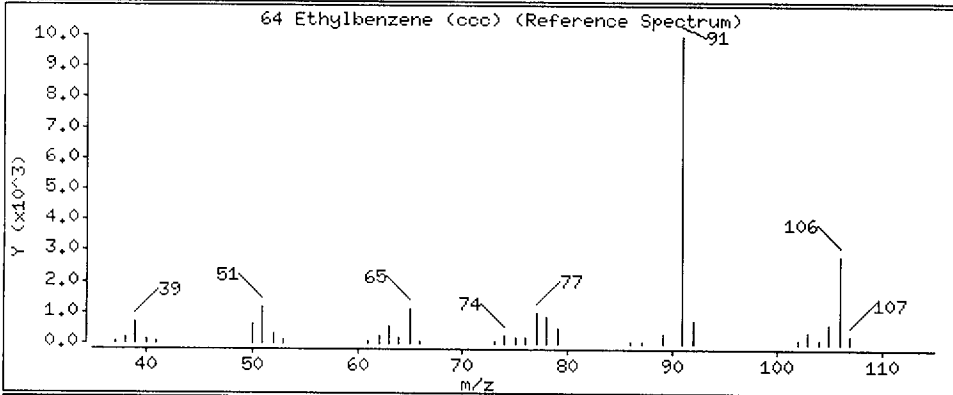
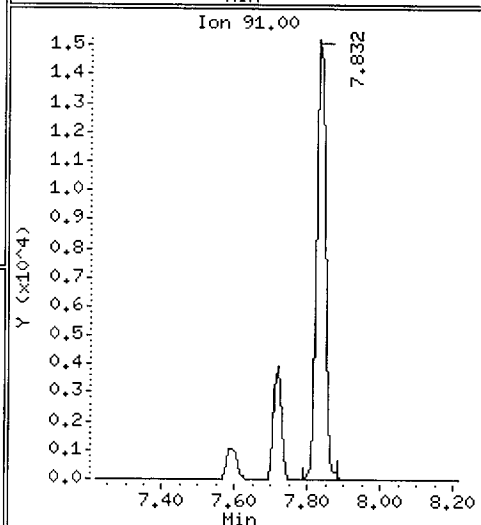
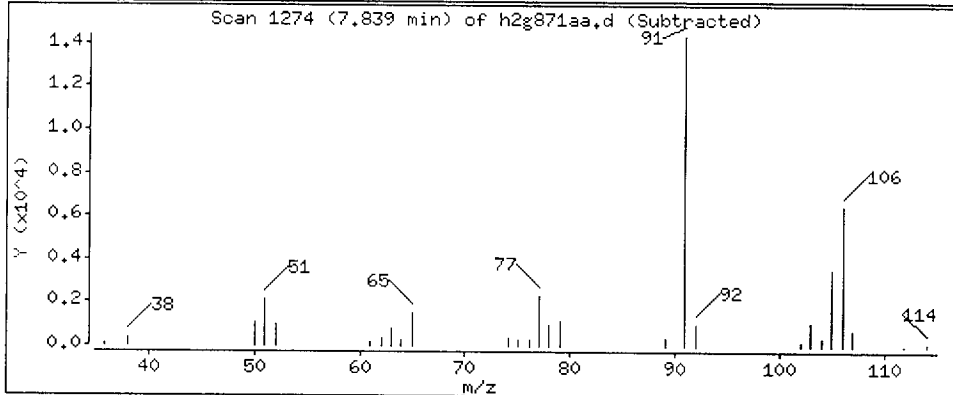
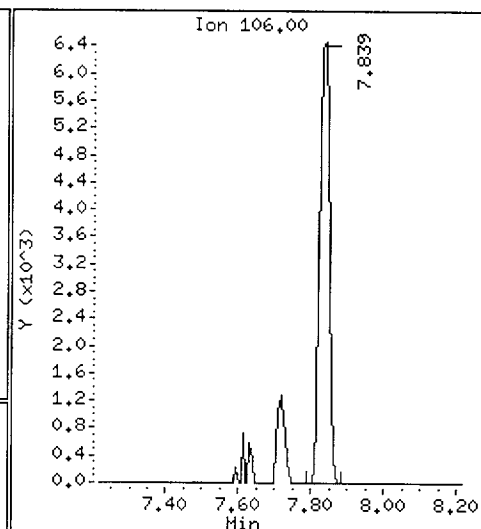
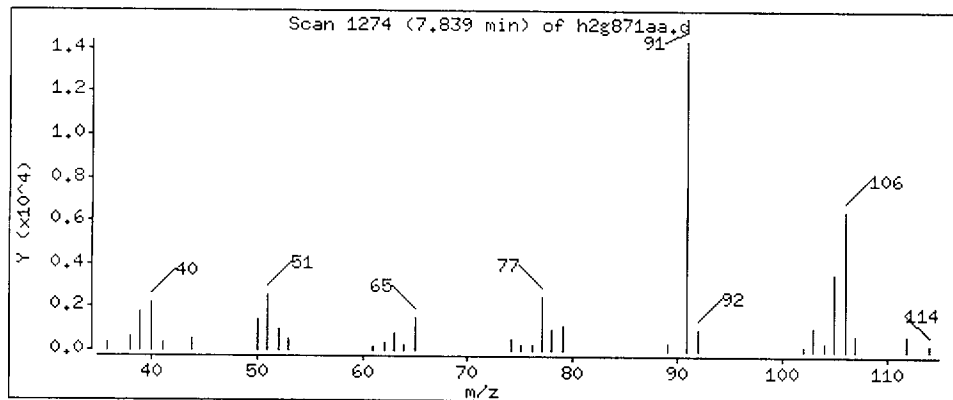
Operator: 22980

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,,

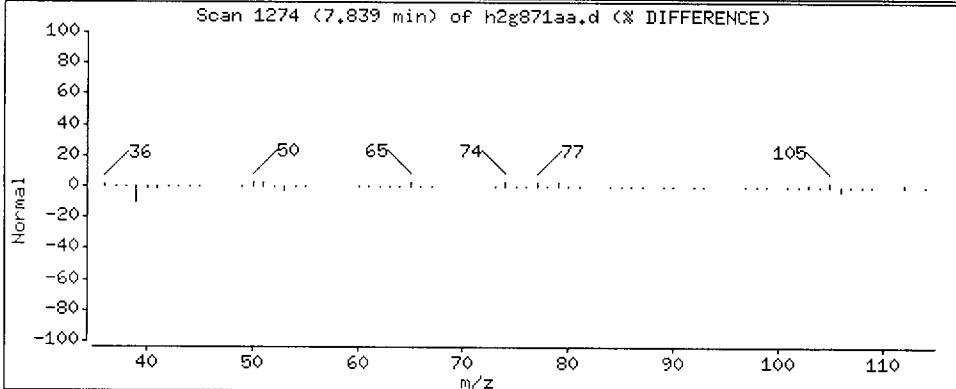
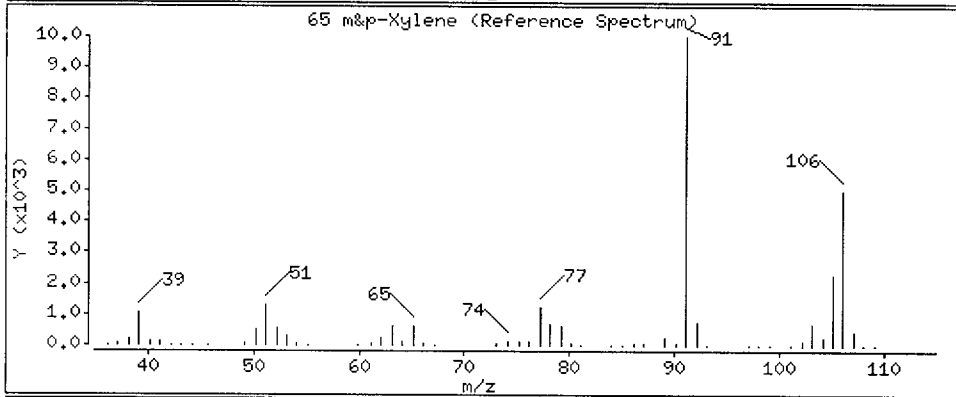
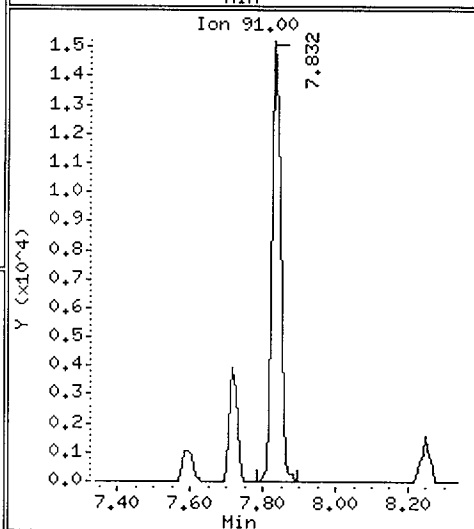
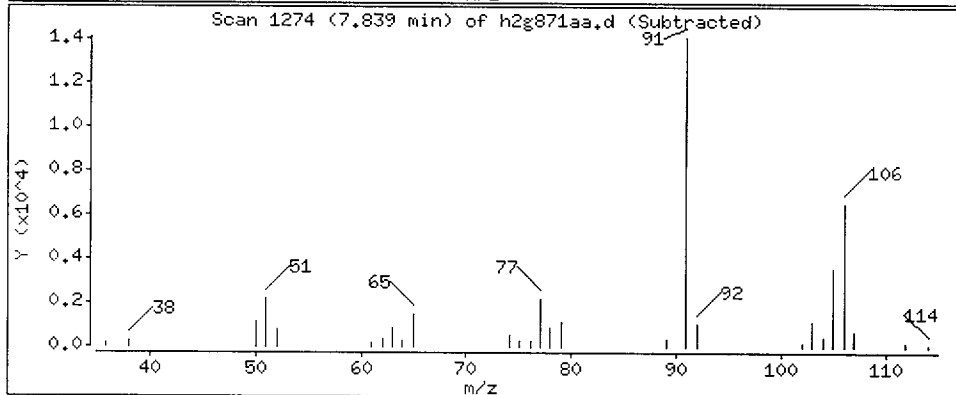
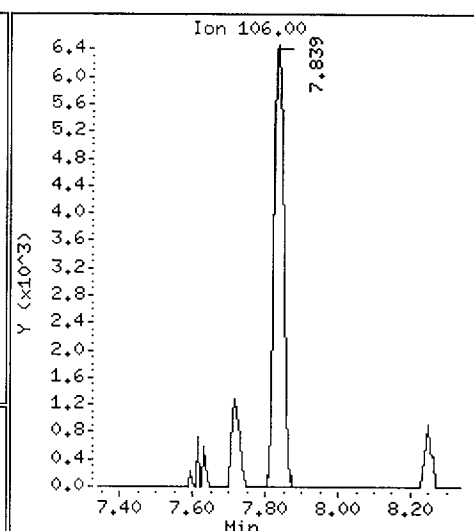
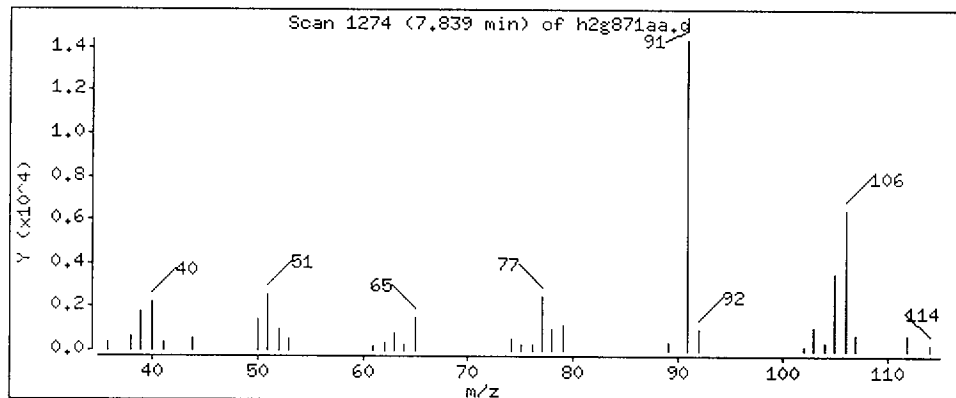
Operator: 22980

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,,,

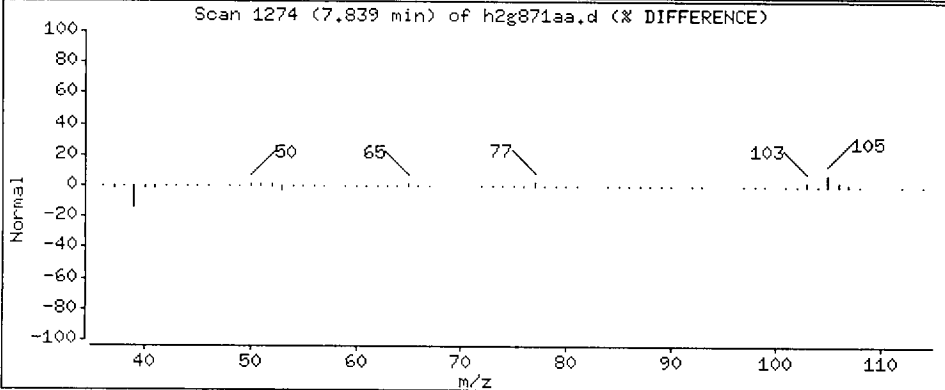
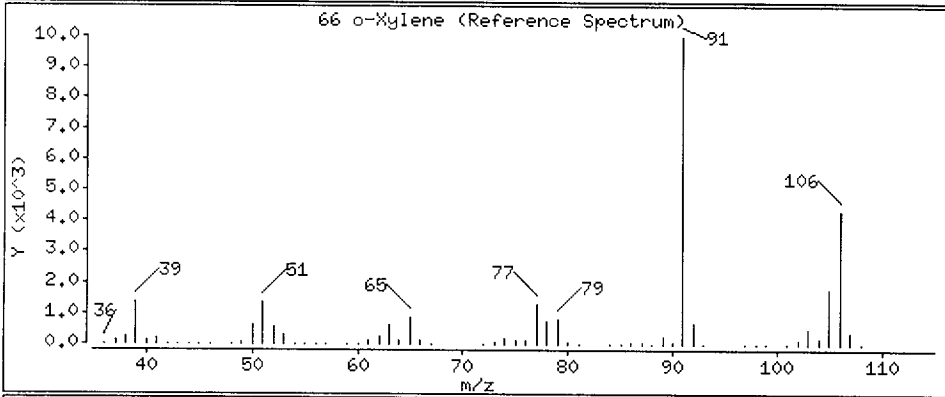
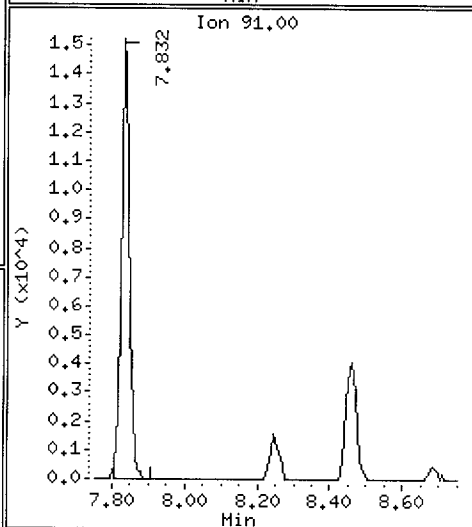
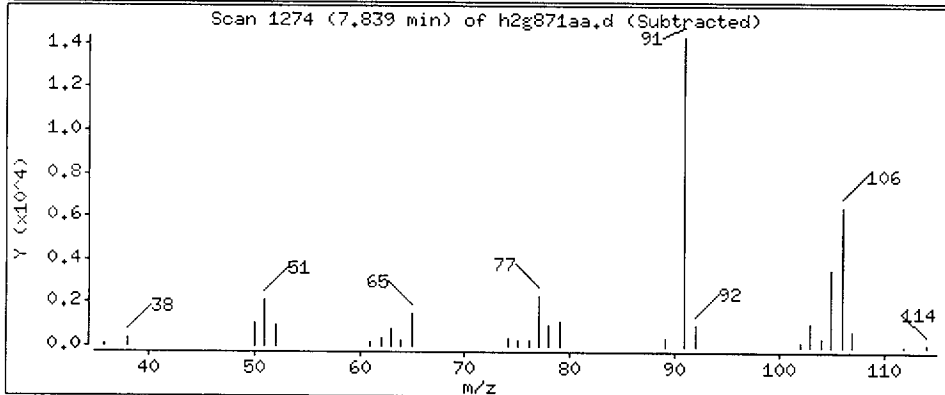
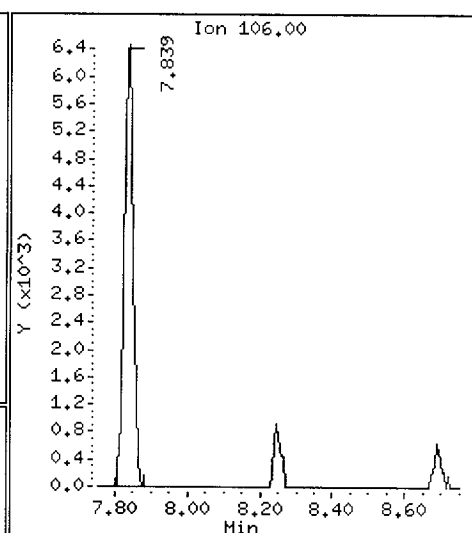
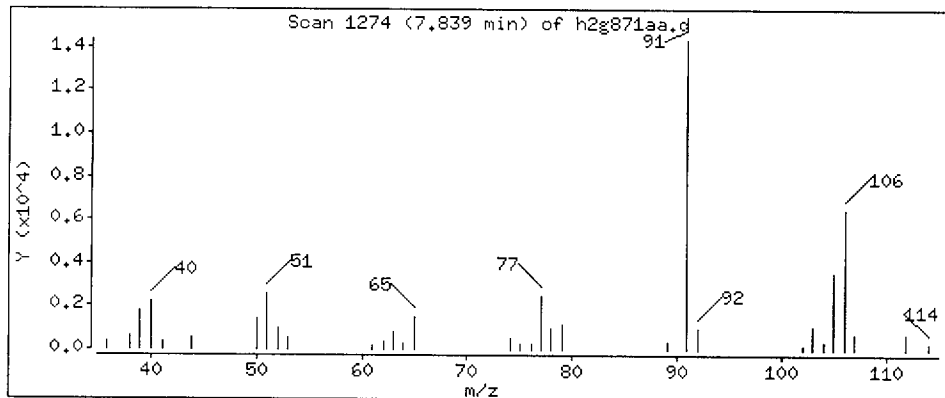
Operator: 22980

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,,,

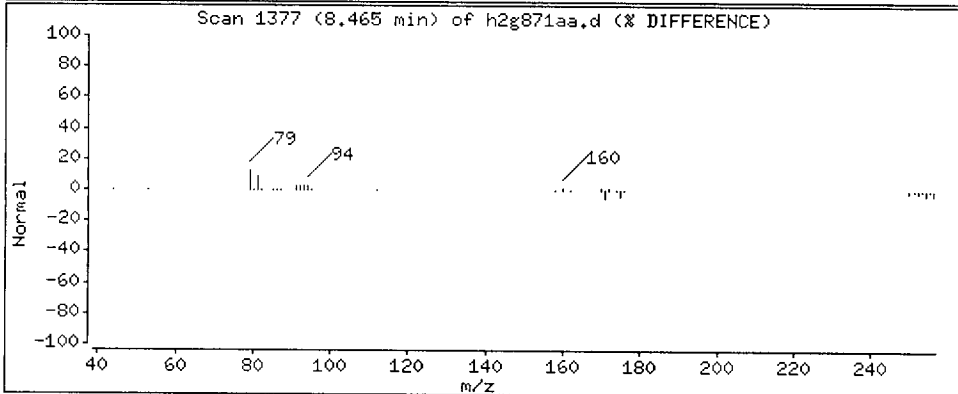
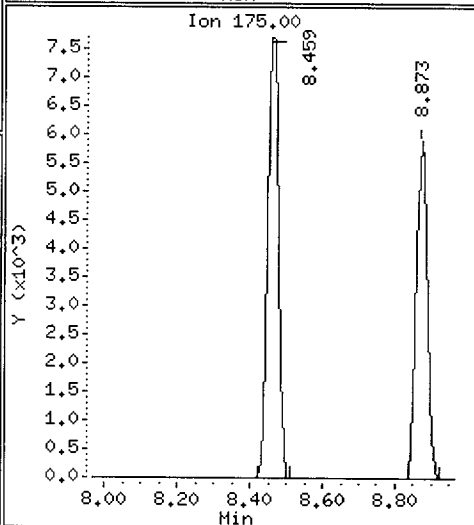
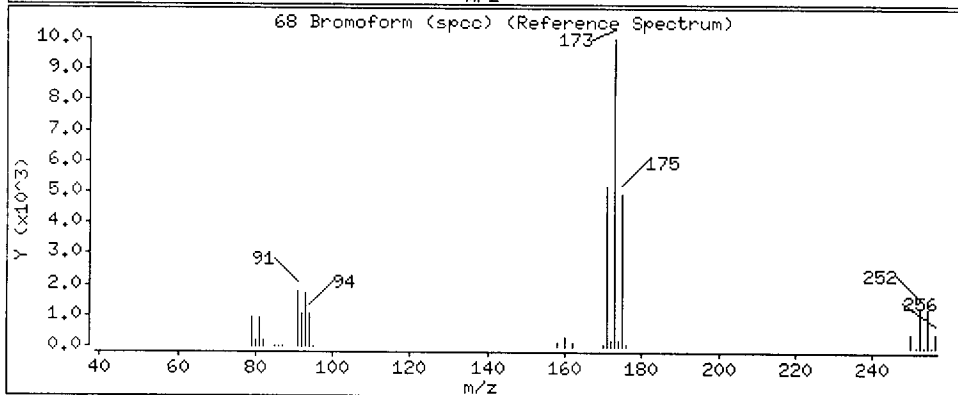
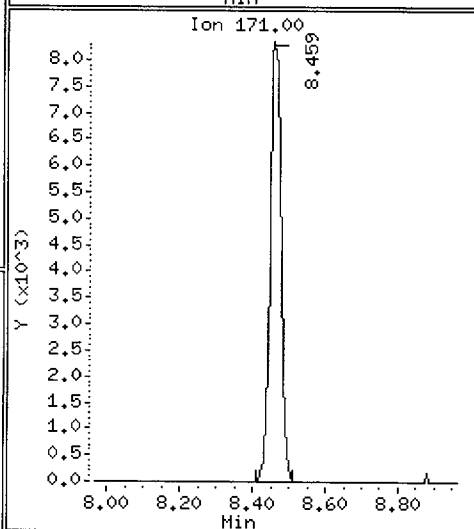
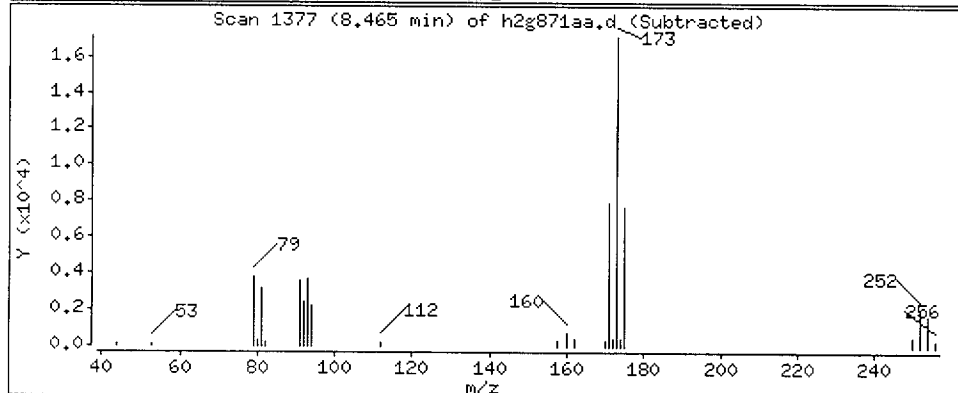
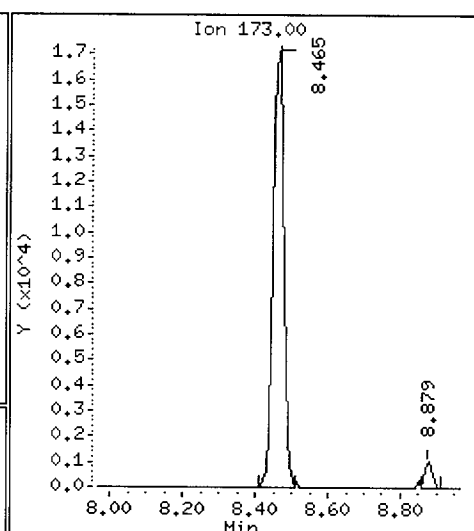
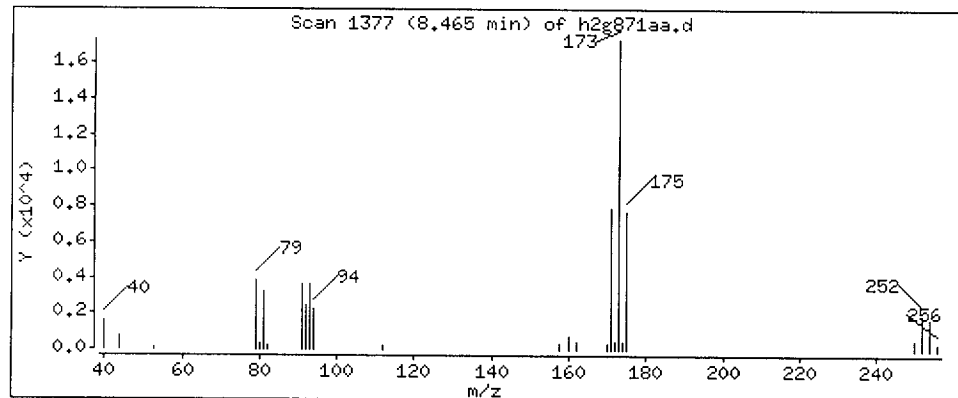
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

68 Bromoform (spcc)

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,,,

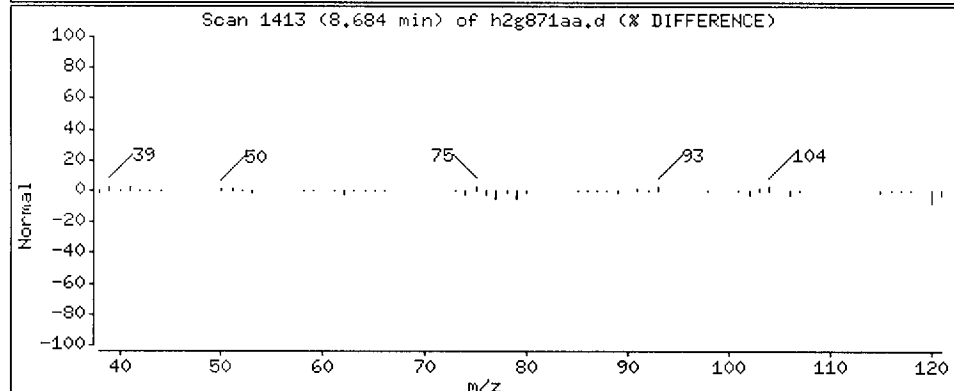
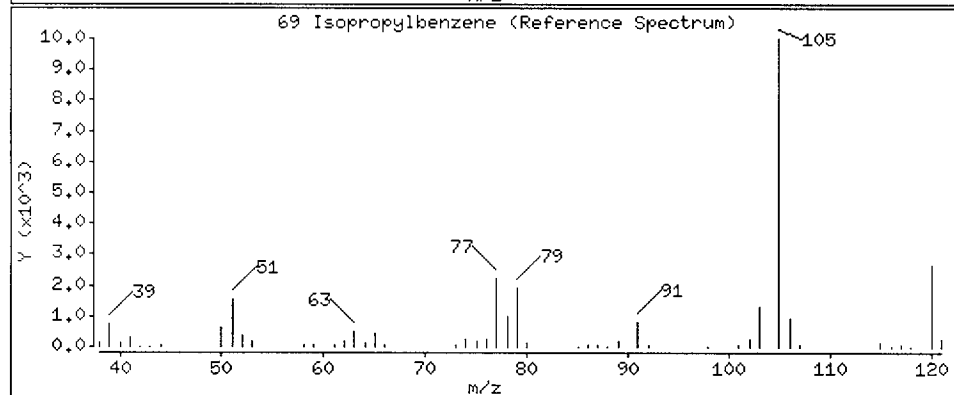
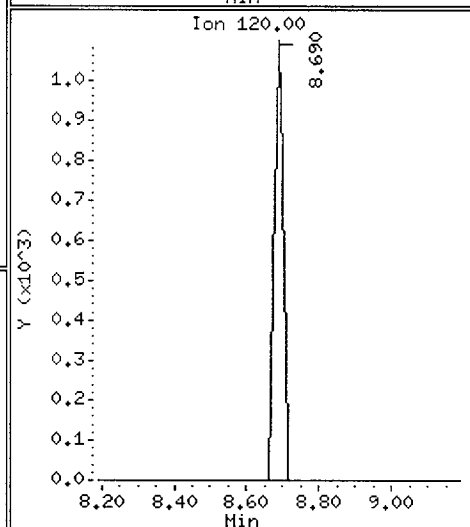
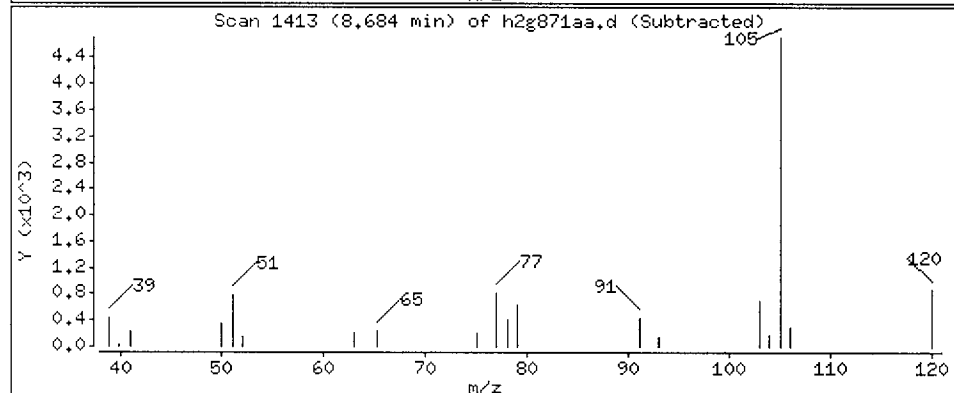
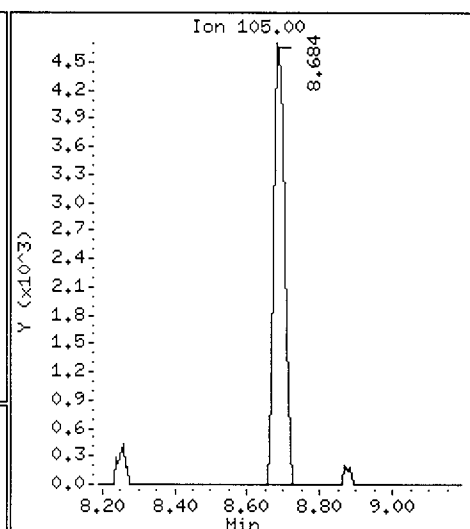
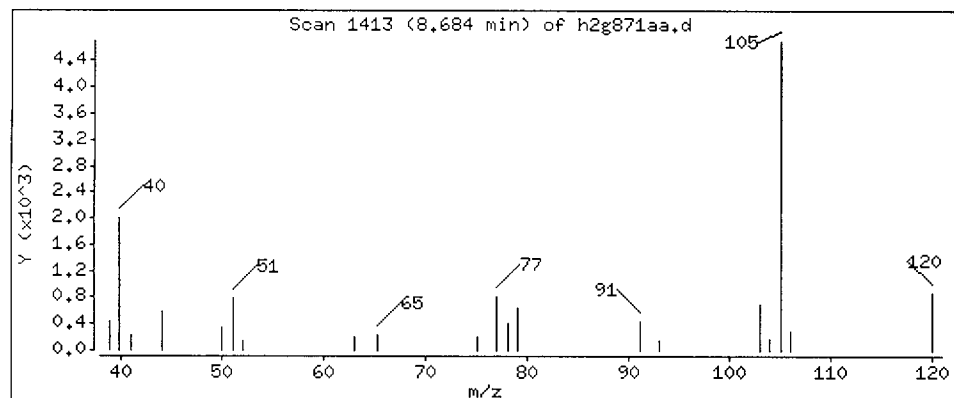
Operator: 22980

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,,,

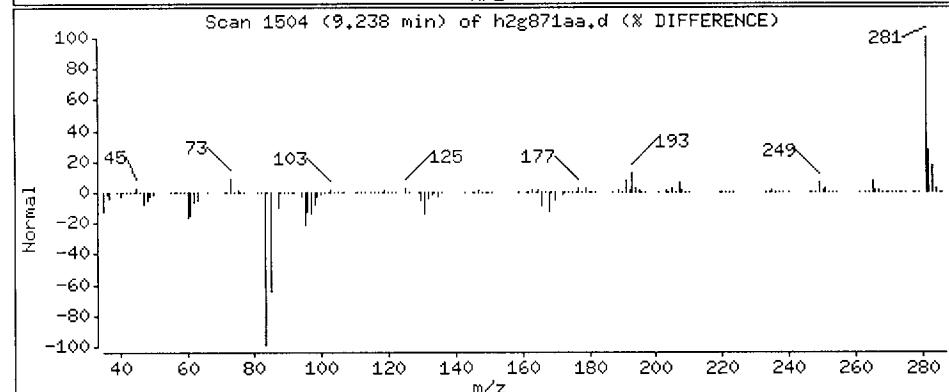
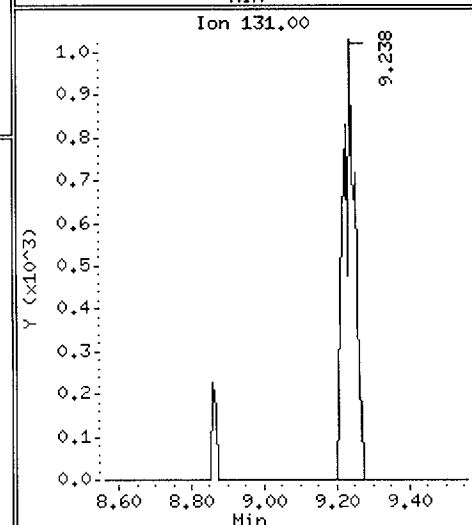
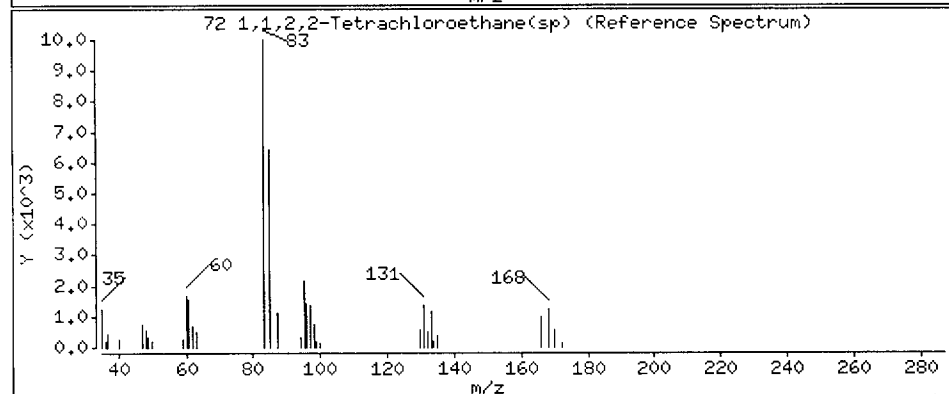
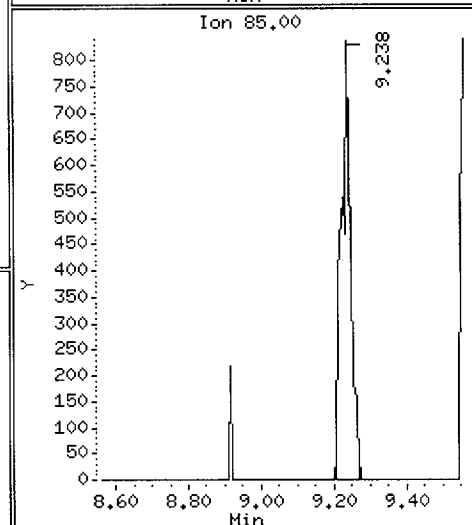
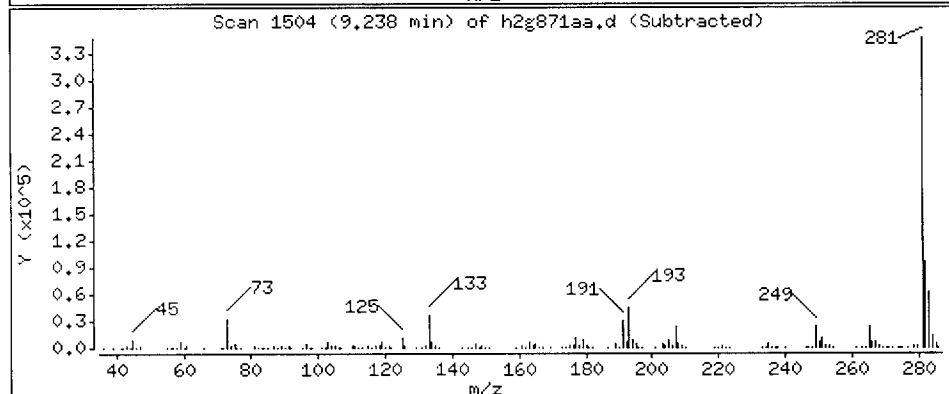
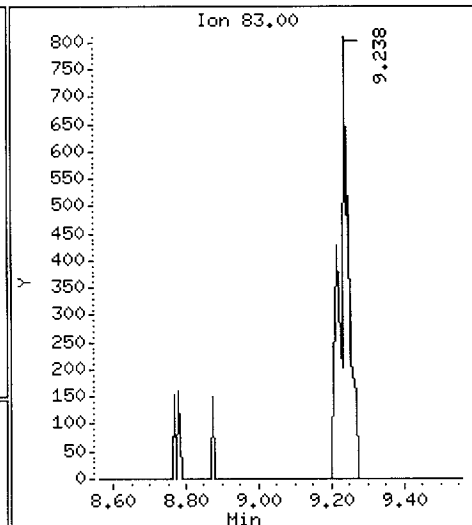
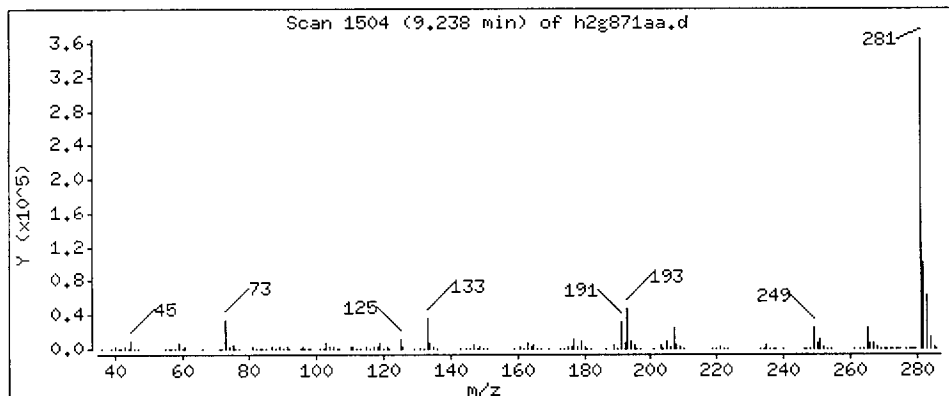
Operator: 22980

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,,,

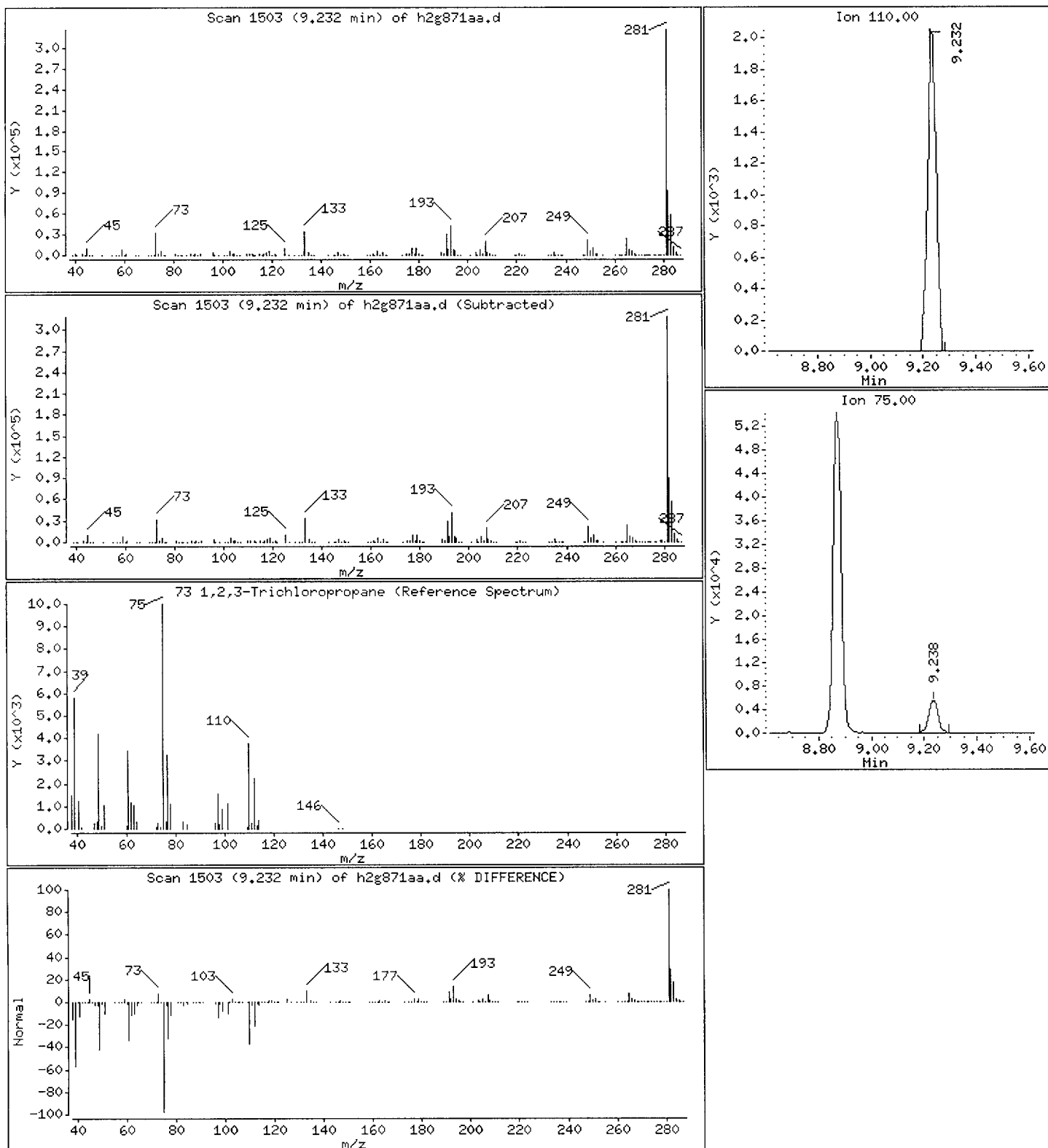
Operator: 22980

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,,,

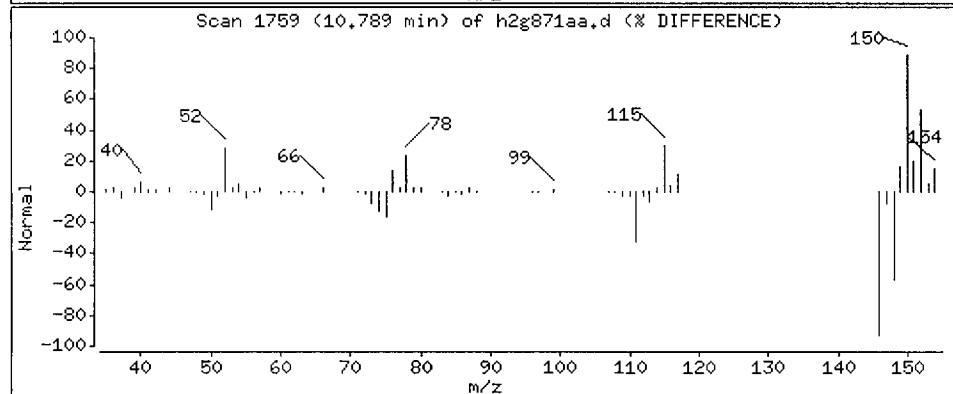
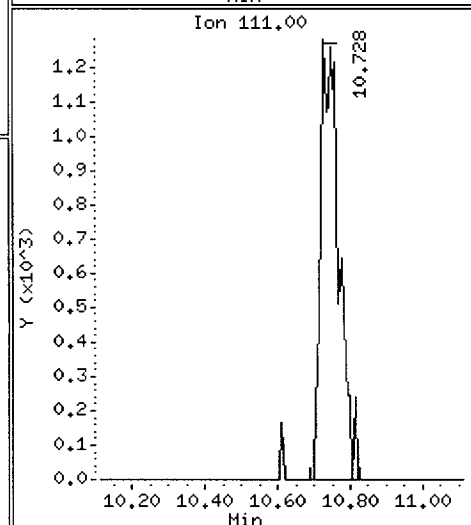
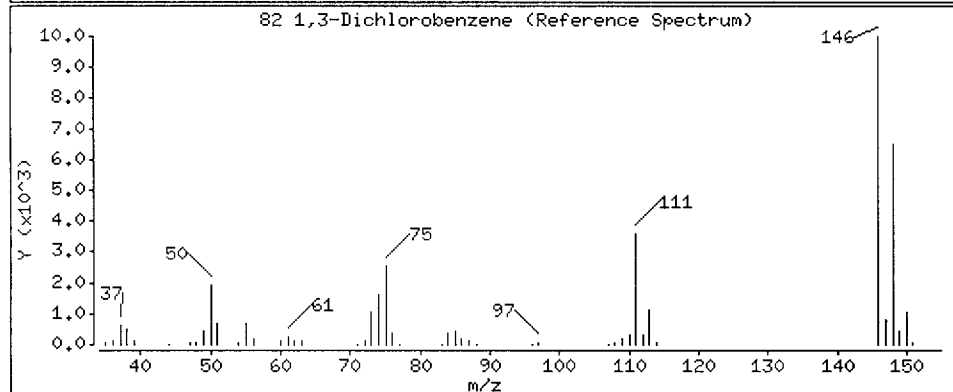
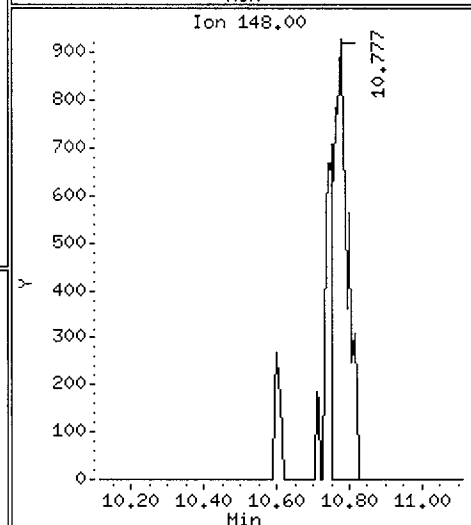
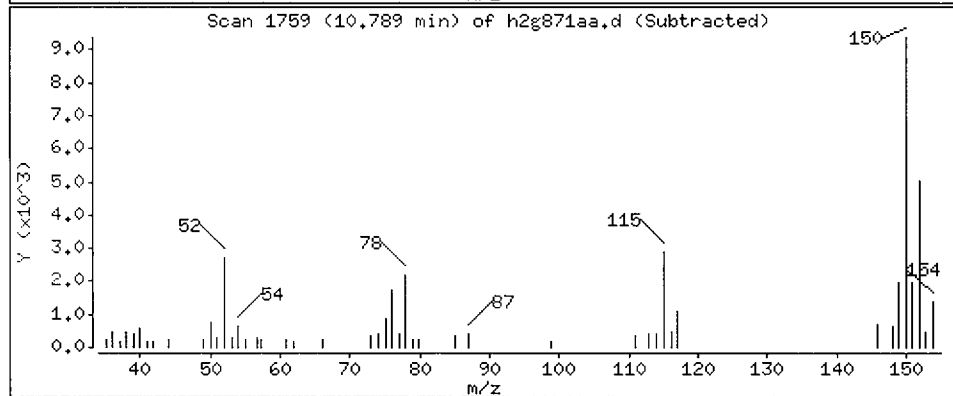
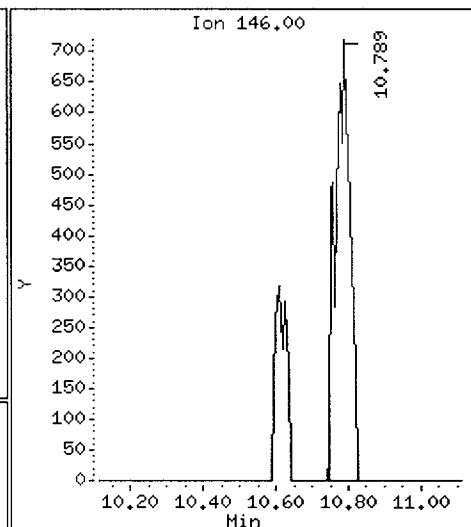
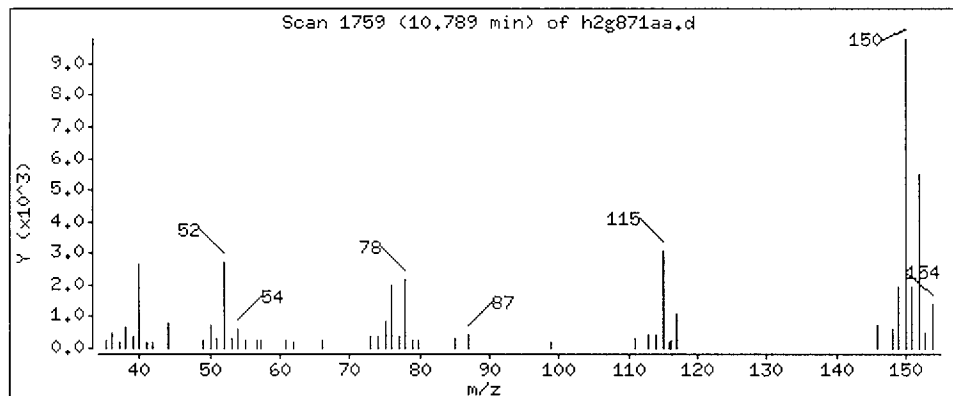
Operator: 22980

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,,,

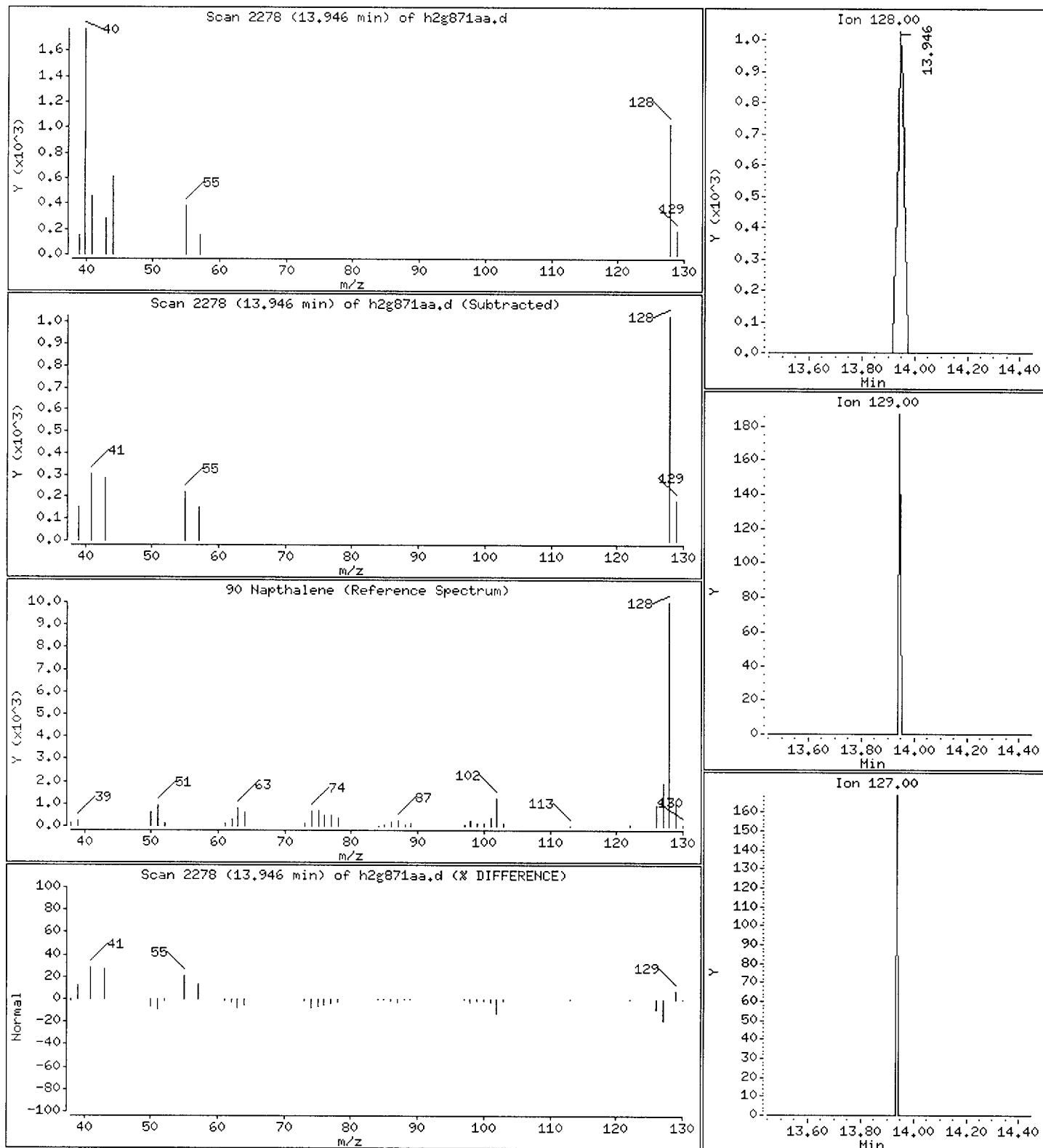
Operator: 22980

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							
9.238	1040787	15.2858870	0.38215	91	NIST02.1	115616	3
CAS #: 556-67-2							
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5- Si							
12.444	293226	4.30656752	0.10766	32	NIST02.1	98616	3
CAS #: 13450-73-2							

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

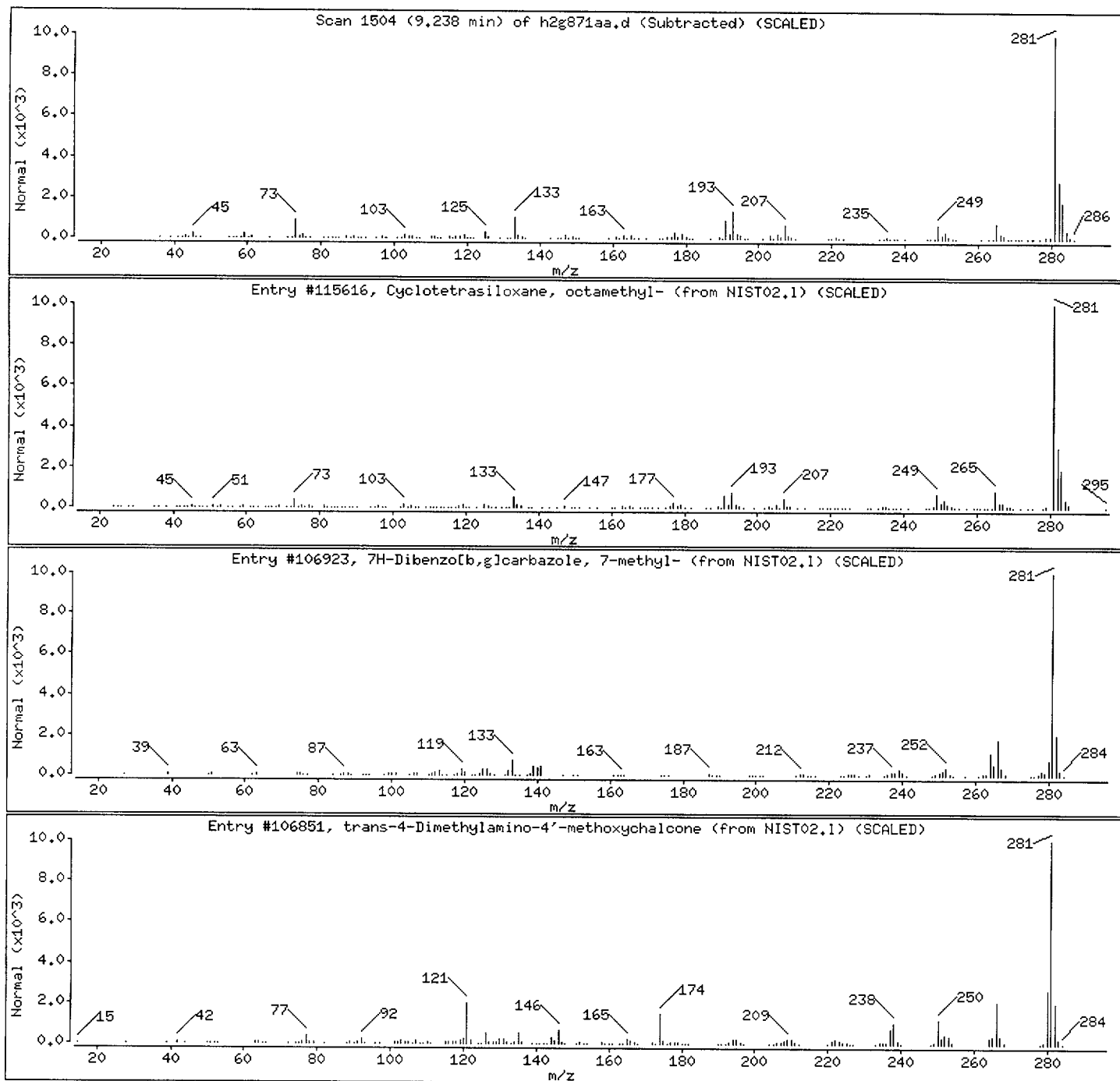
Sample Info: H2G871AA,1,0,,,

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	C ₈ H ₂₄ O ₄ Si ₄	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	59	C ₂₁ H ₁₅ N	281
trans-4-Dimethylamino-4'-methoxychalcone	52119-37-6	NIST02.1	106851	50	C ₁₈ H ₁₉ NO ₂	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

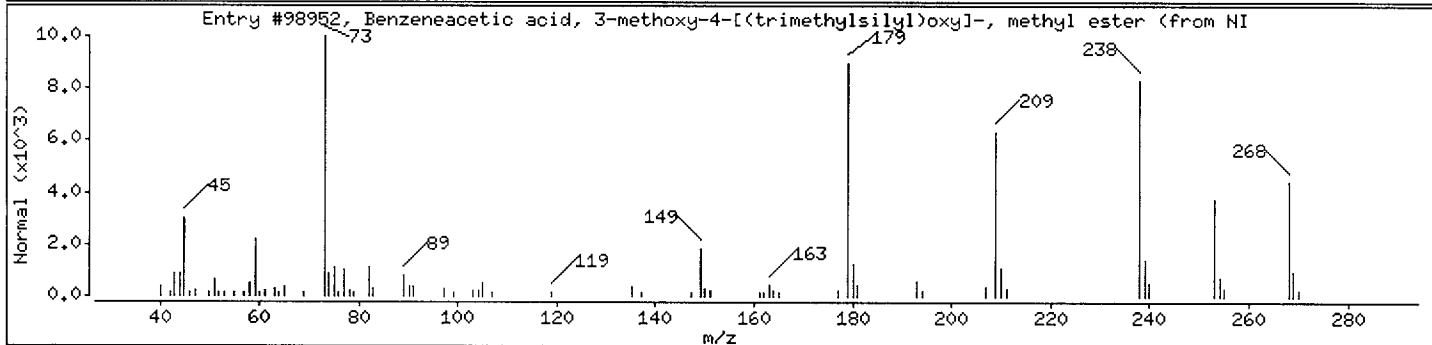
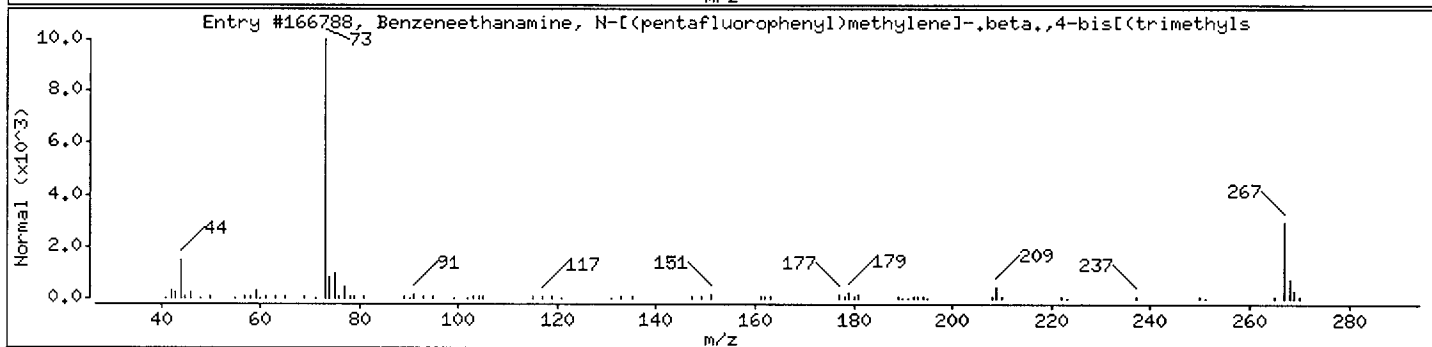
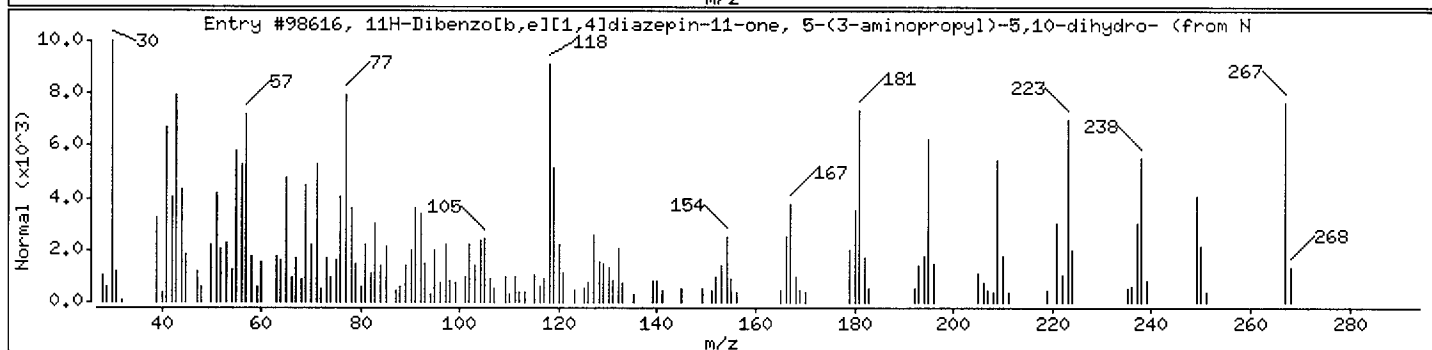
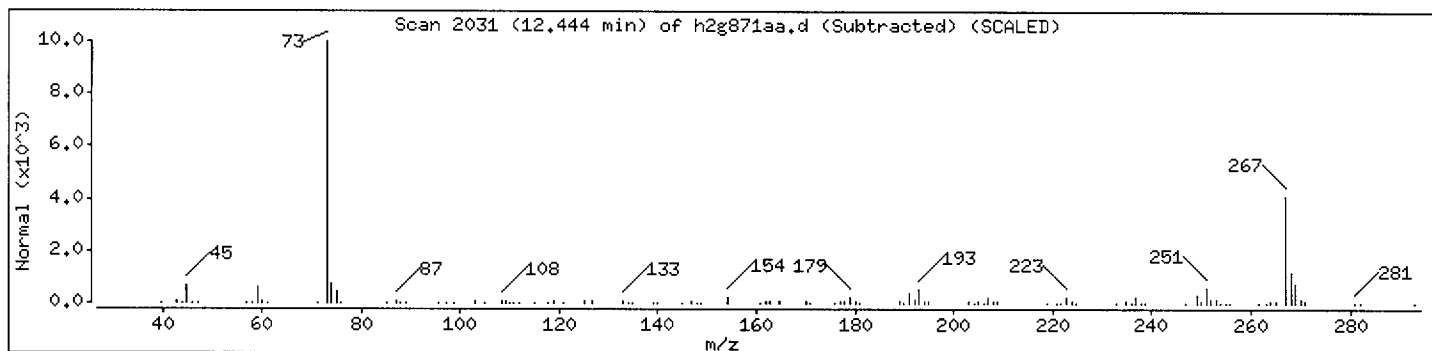
Sample Info: H2G871AA,1,0,,,

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	C ₁₆ H ₁₇ N ₃ O	267
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.1	166788	23	C ₂₁ H ₂₆ F ₅ N ₂ O ₂ S	425
Benzeneacetic acid, 3-methoxy-4-[(trimet	15964-84-8	NIST02.1	98952	9	C ₁₃ H ₂₀ O ₄ Si	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						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		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

7/10/06

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		SAMPLE	%DIFF
		LOWER	UPPER		
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		SAMPLE	%DIFF
		LOWER	UPPER		
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

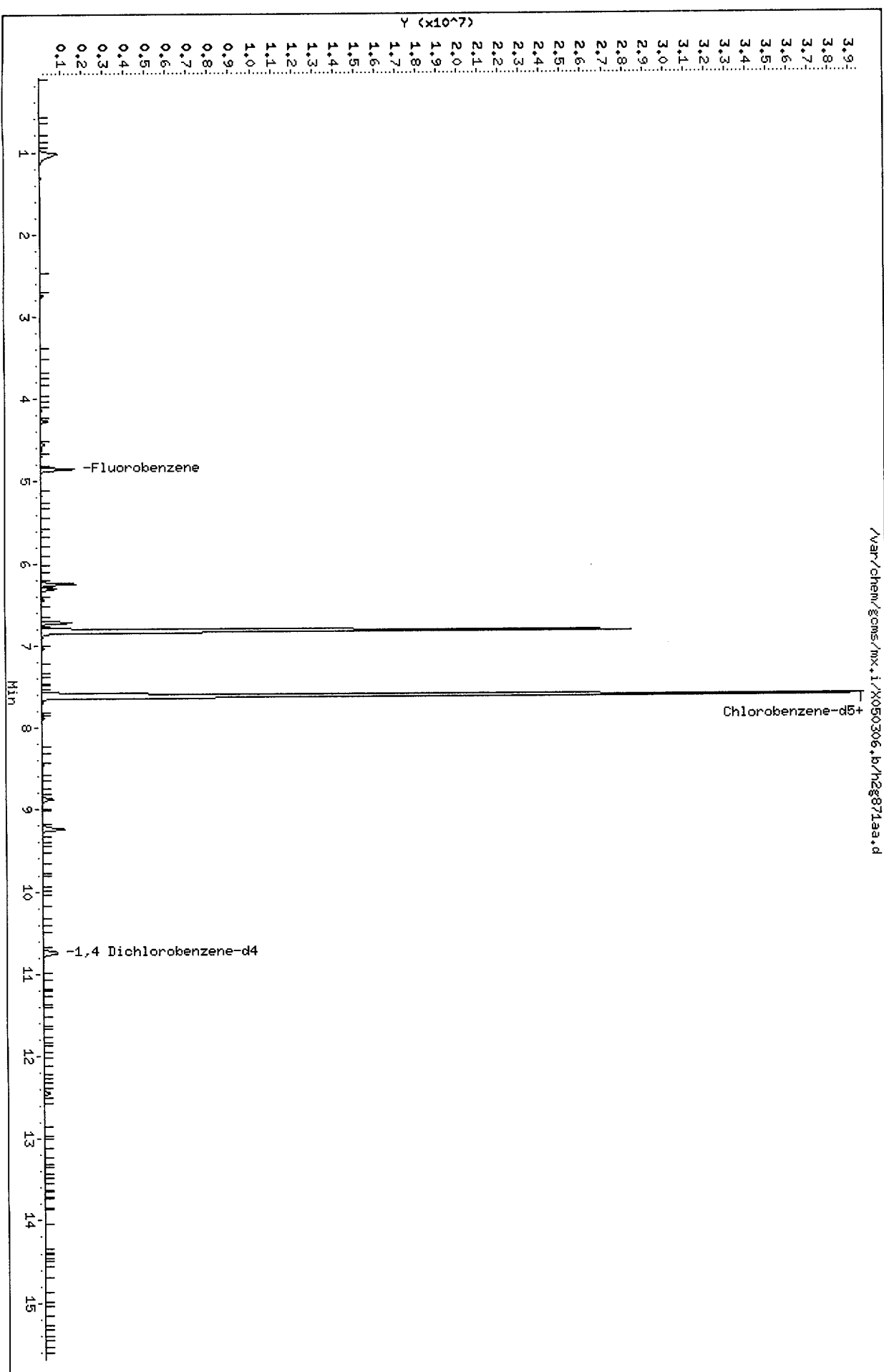
Sample Info: H2G871AA,1.0,,

Column phase: J+M 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,,,

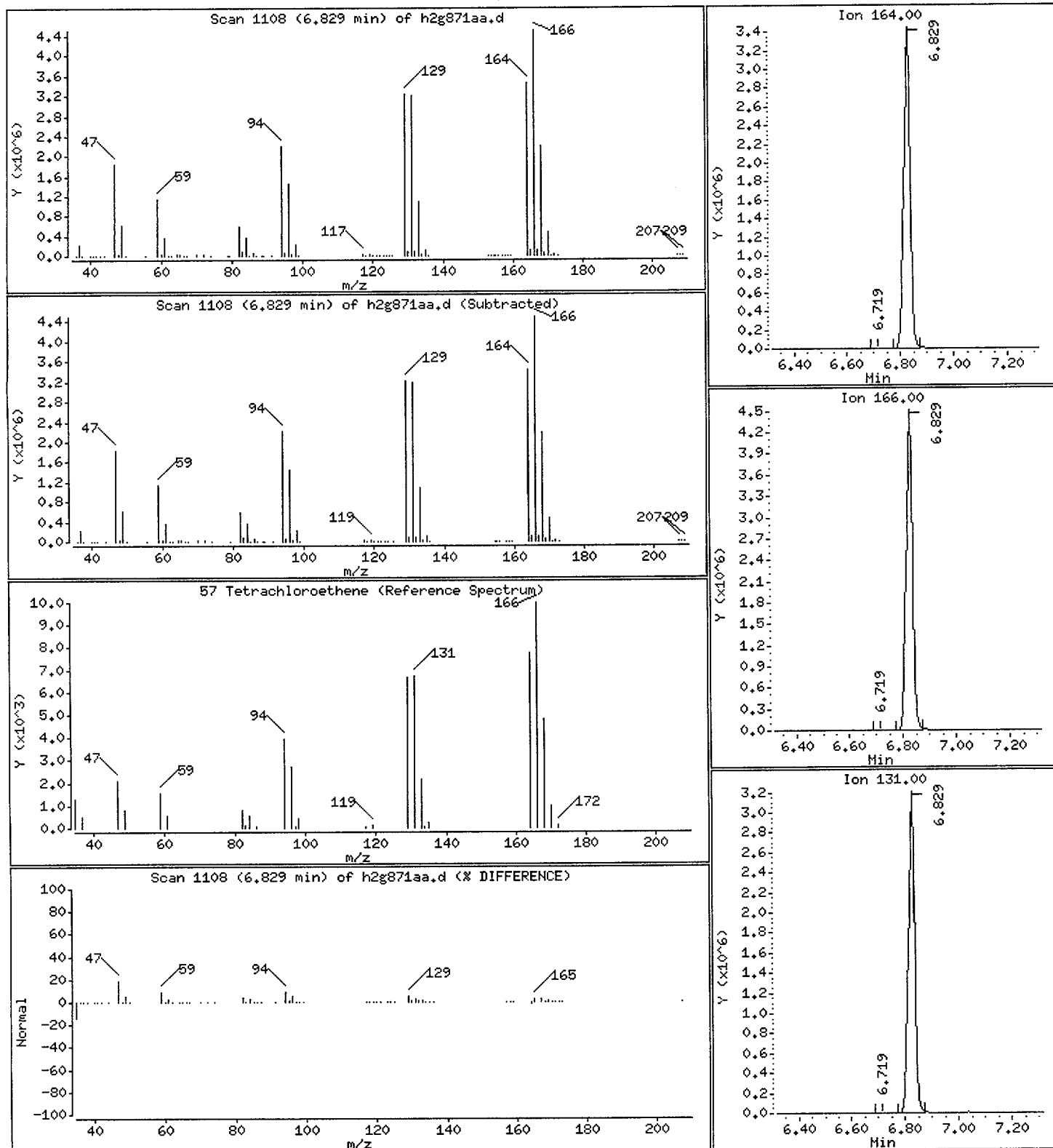
Operator: 22980

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,,,

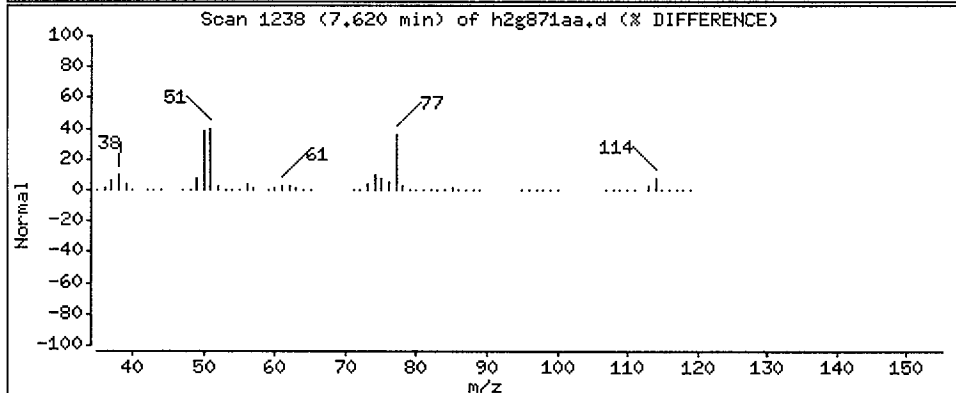
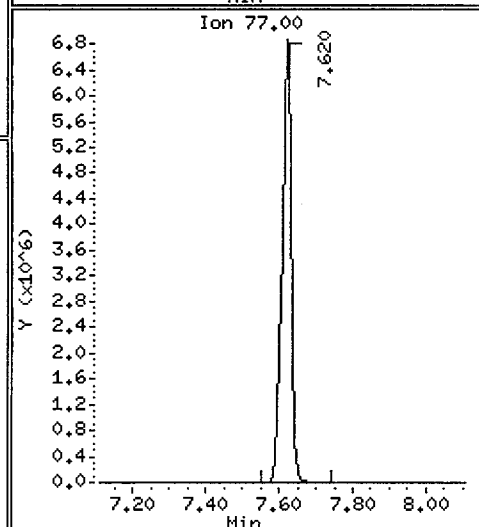
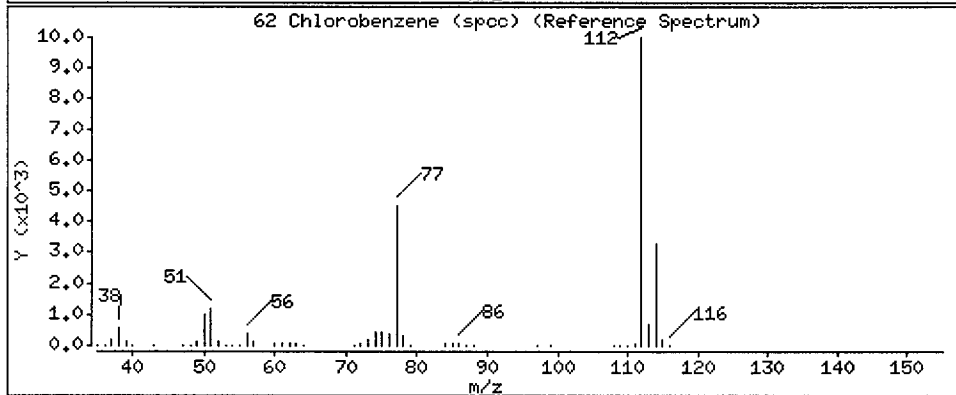
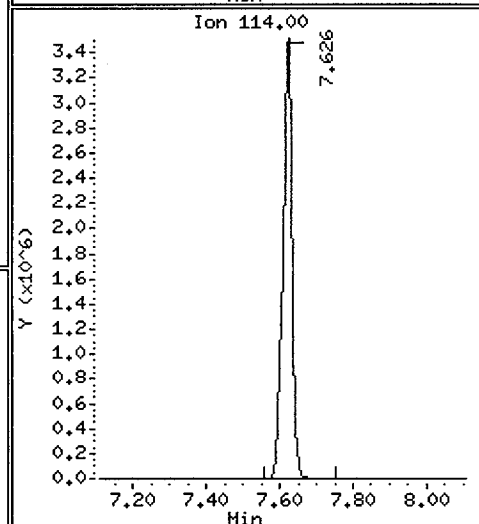
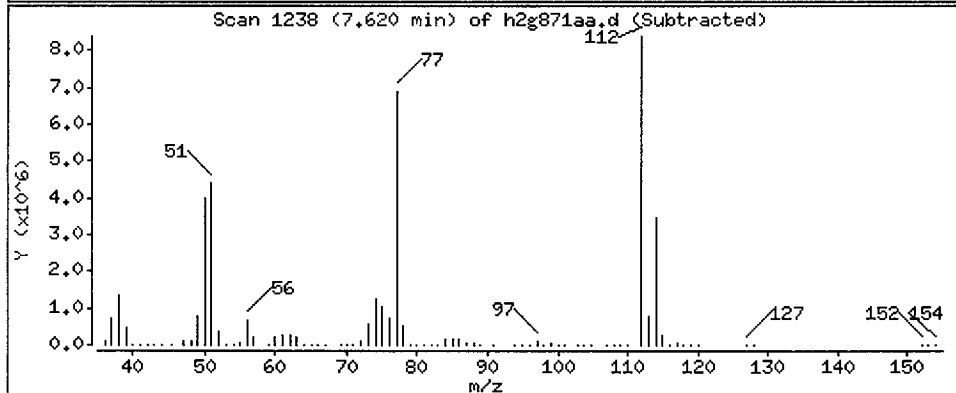
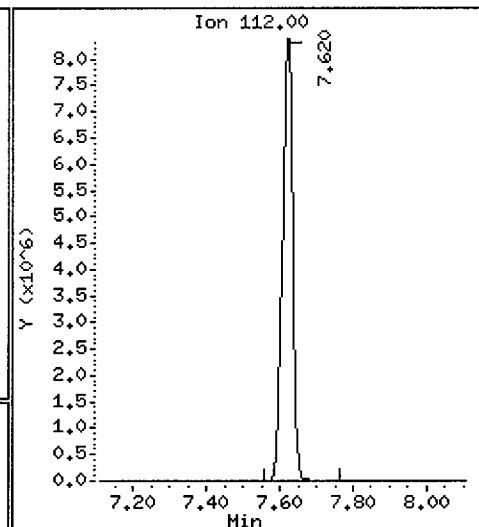
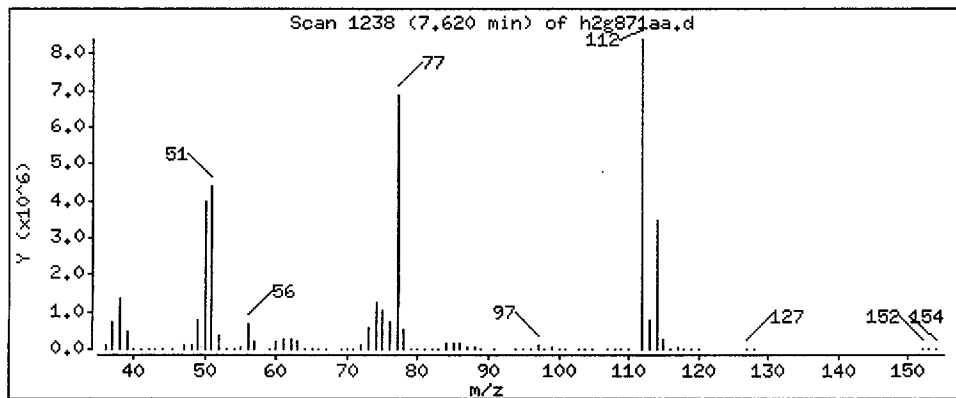
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

62 Chlorobenzene (spoc)

Concentration: 5.2364 ug

*slight saturation
7/5/06*

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

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062186

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		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

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04-14-06

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

Report Date: 07-Apr-2006 18:11

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ug/L)	(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	~~0.0013814~~	
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	

7W
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		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	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	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	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	Calibration Date: 07-APR-2006
Lab File ID: h2g891aa.d	Calibration Time: 07:35
Lab Smp Id: H2G891AA	Client Smp ID: G-2911-R1-VOST PAIR
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m	
Misc Info: Z040706,8260B_LM,focus.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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

Client SDG: H6D030169

Sample Matrix: GAS

Fraction: VOA

Lab Smp Id: H2G891AA

Client Smp ID: G-2911-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/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	0.27622	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/2040706.b/h2g891aa.d

Date : 07-APR-2006 17:54

Client ID: 0-2911-R1-VOST PAIR

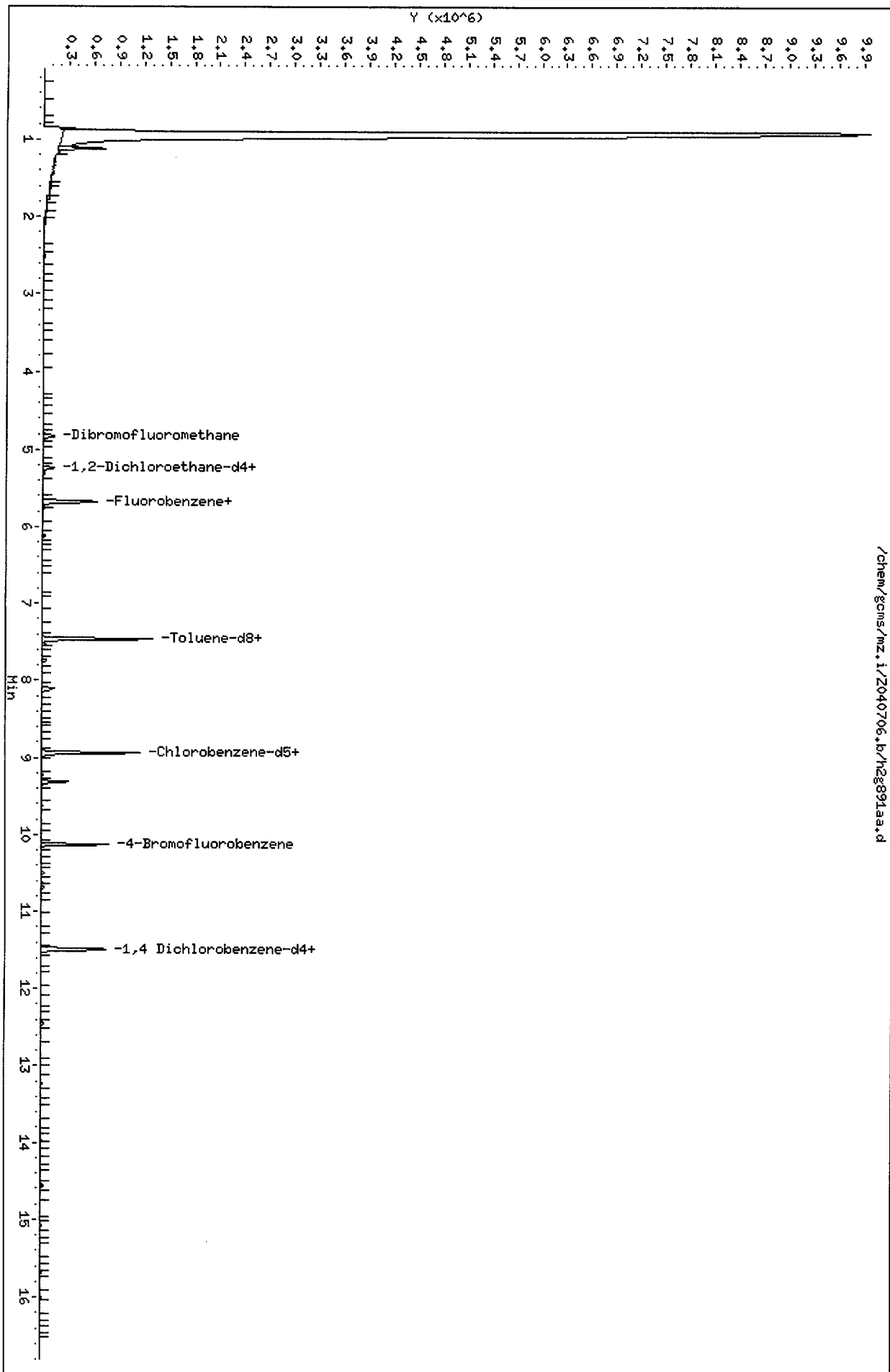
Sample Info: H2G891AA.1.0,,

Column phase: J+M 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,,

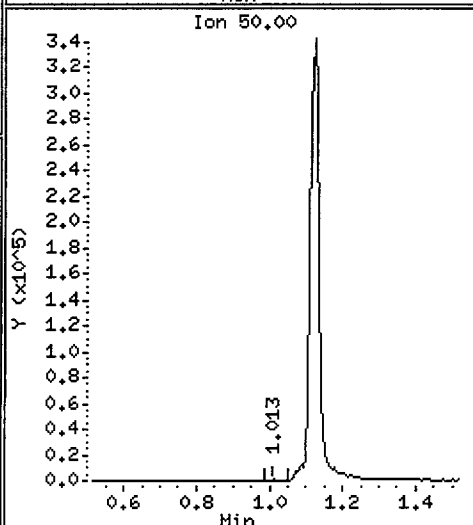
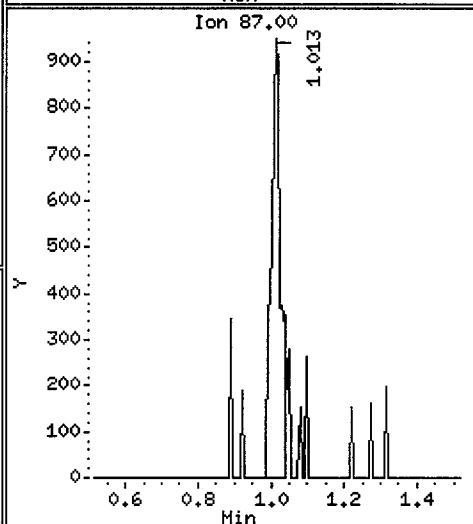
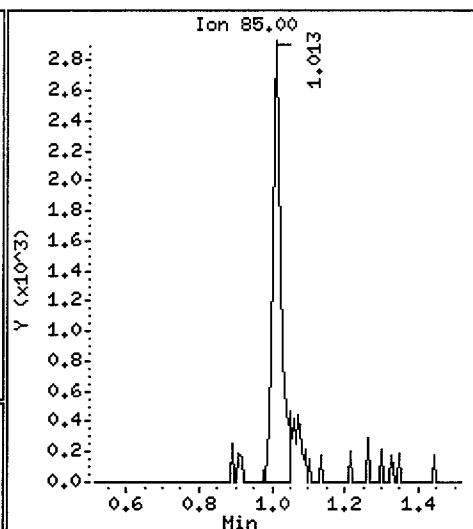
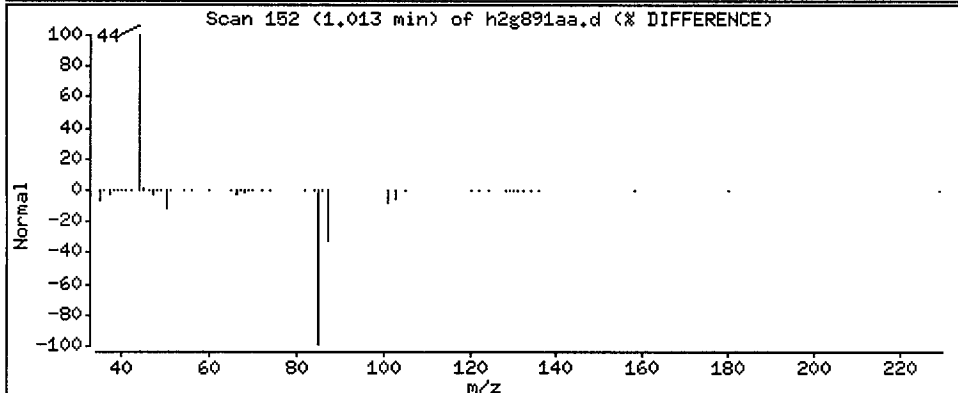
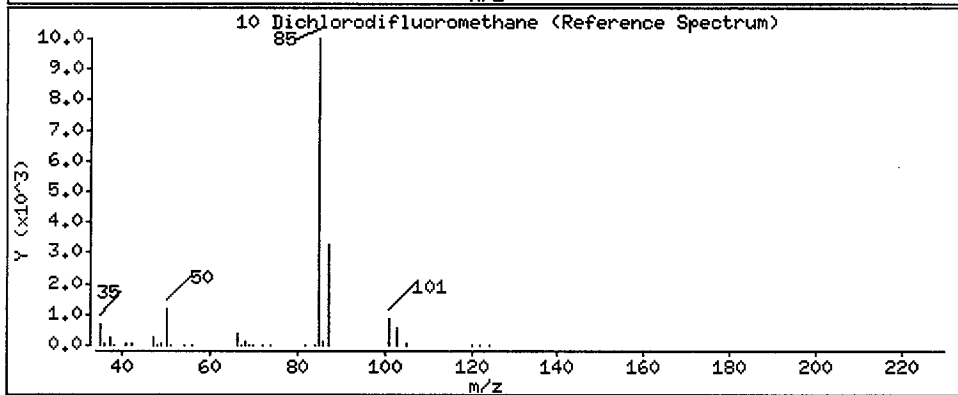
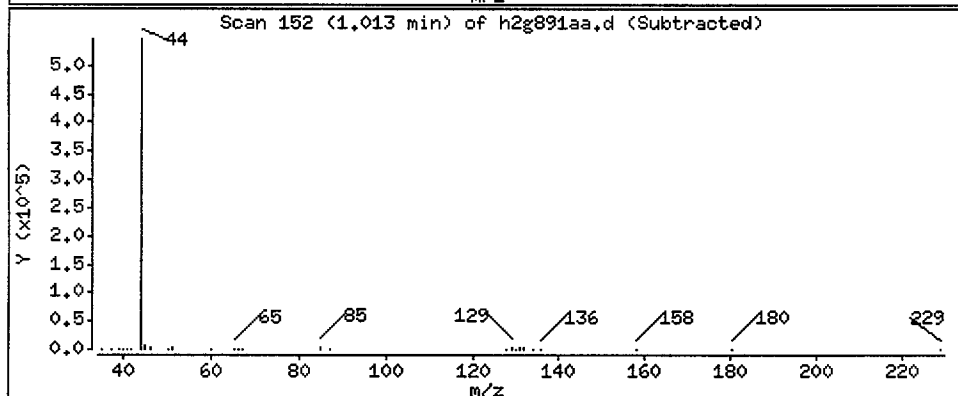
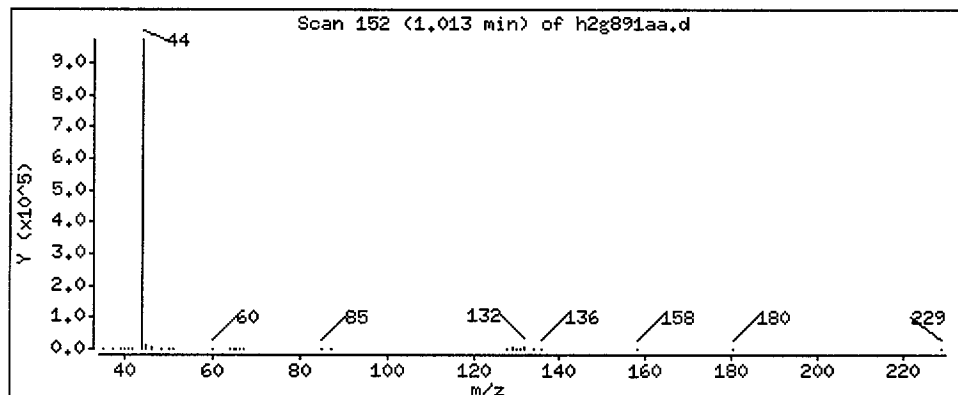
Operator: 22980

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,,

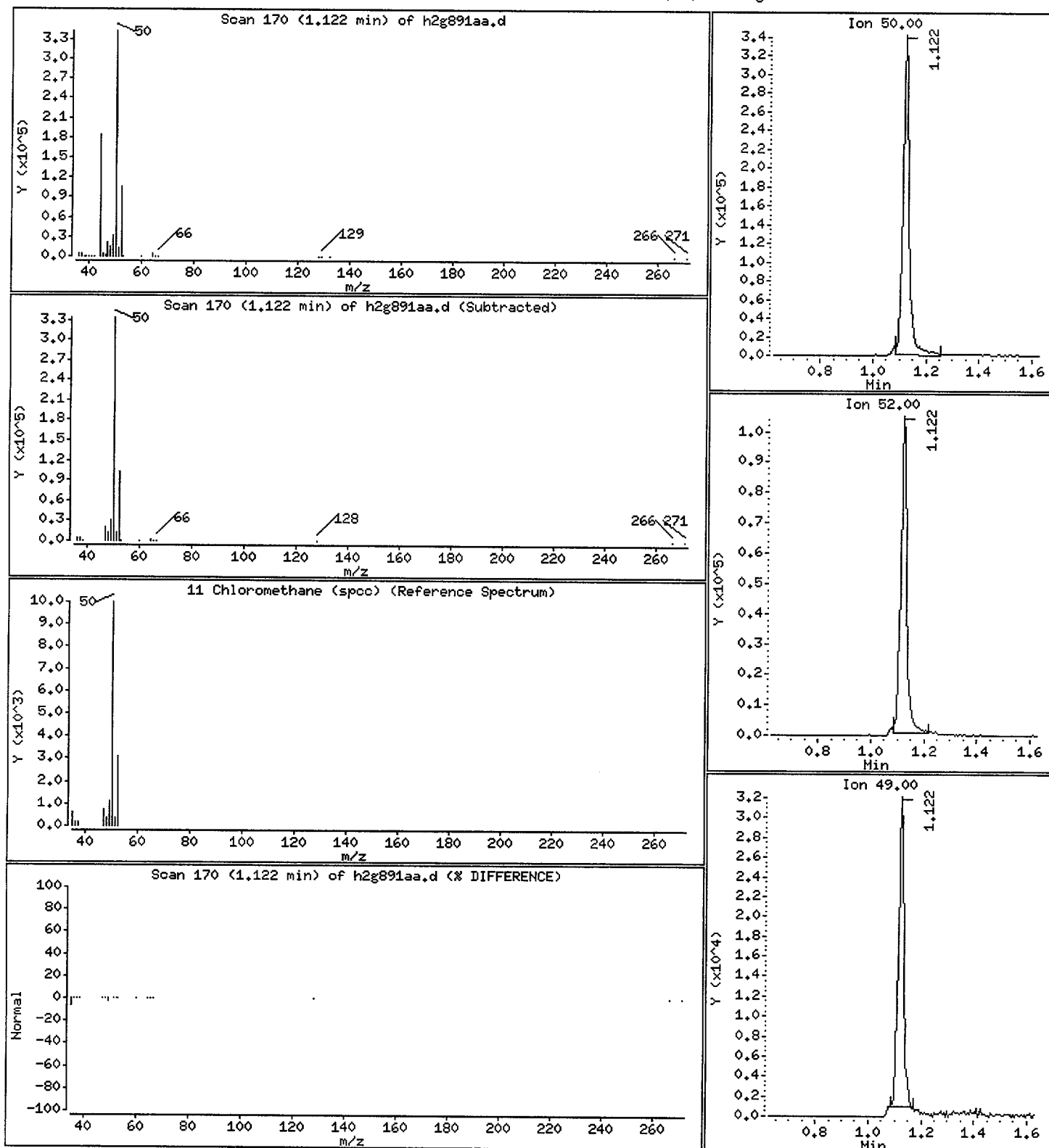
Operator: 22980

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: H2C891AA,1,0,,

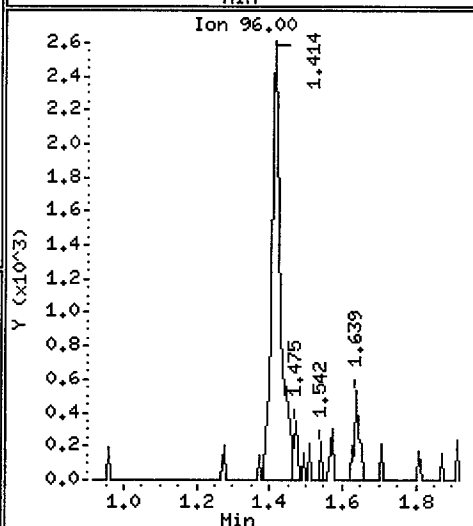
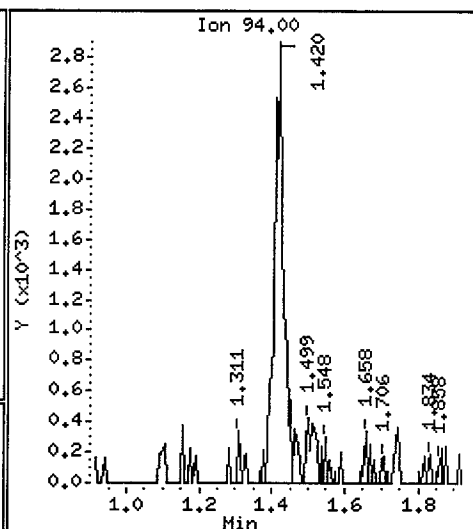
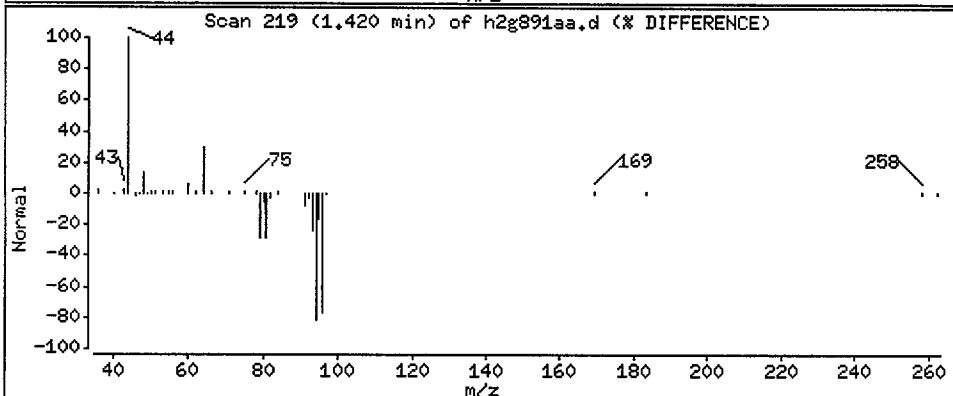
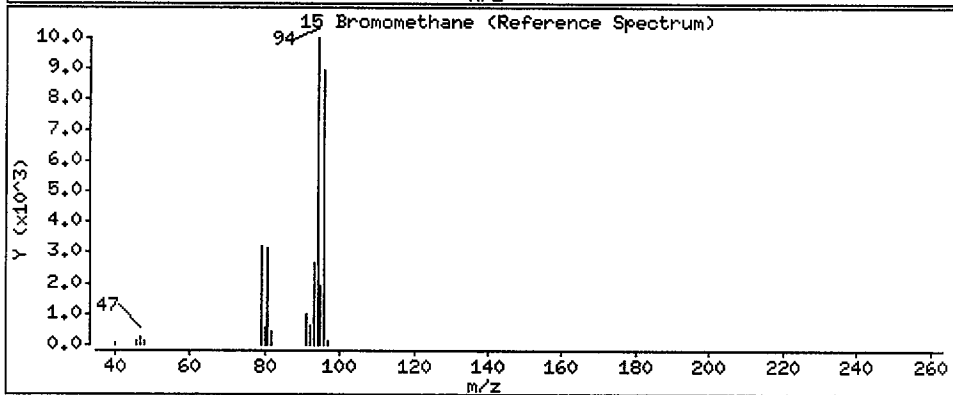
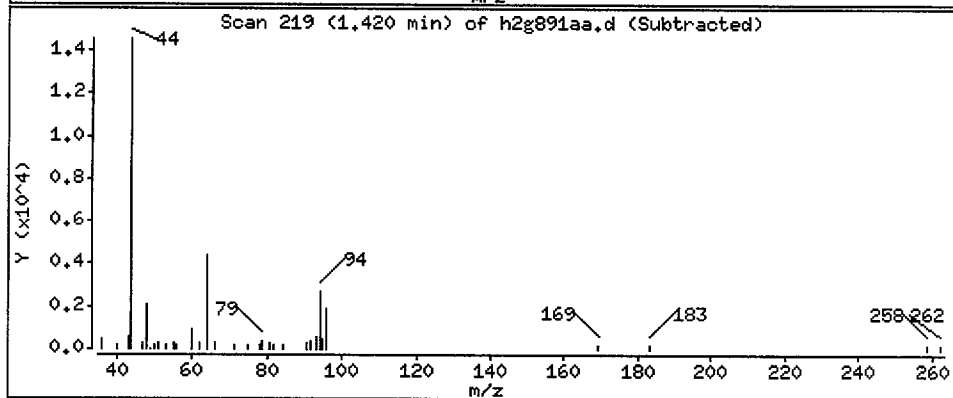
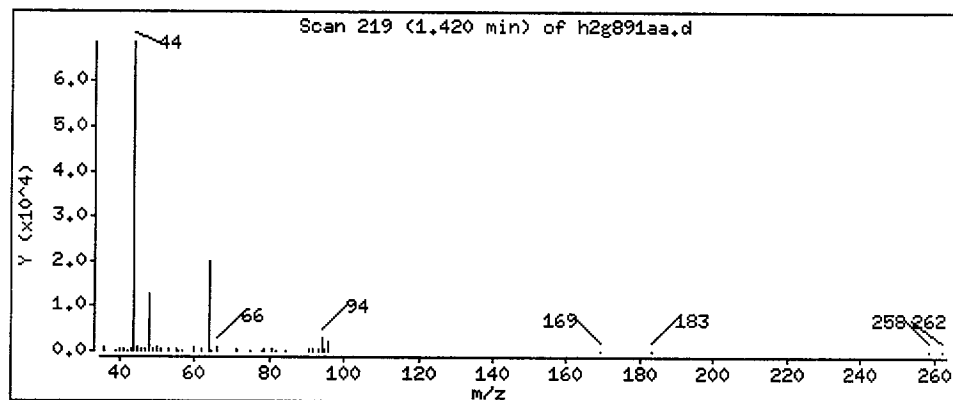
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

15 Bromomethane

Concentration: 0.042100 ug



Data File: /chem/gcms/mz.i/2040706.b/h2g891aa.d

Date: 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G891AA,1,0,,

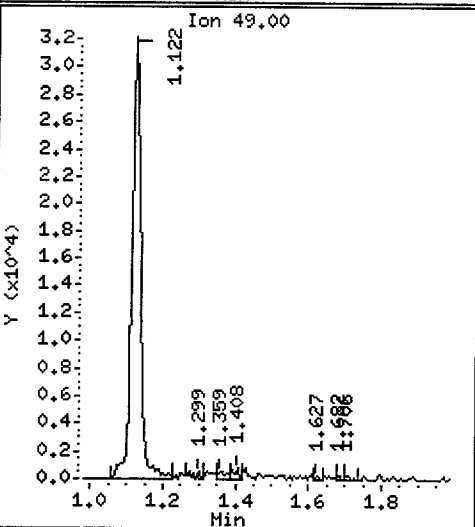
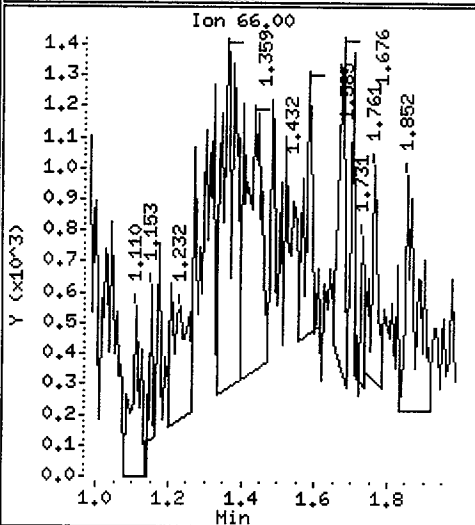
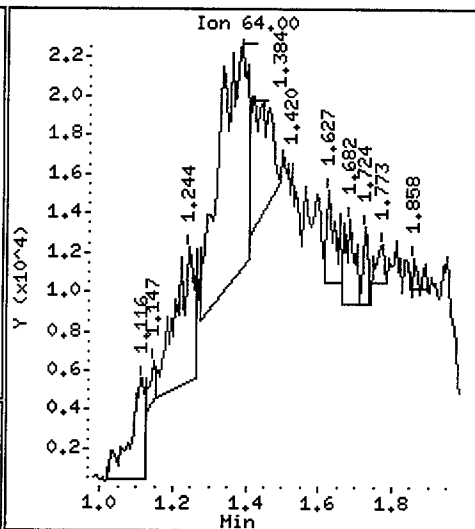
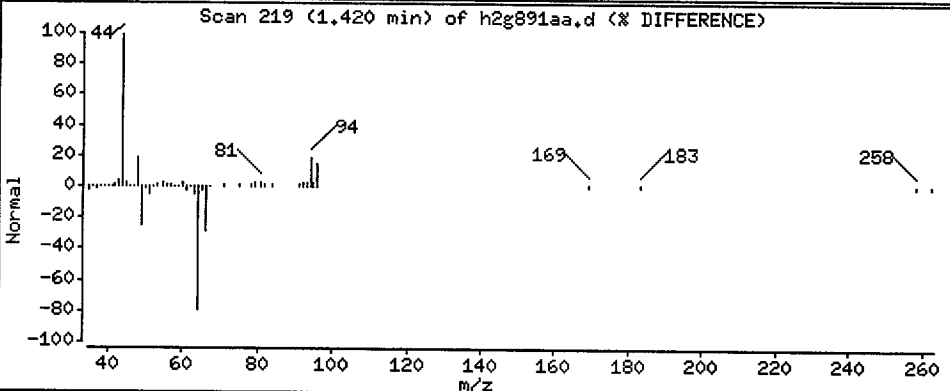
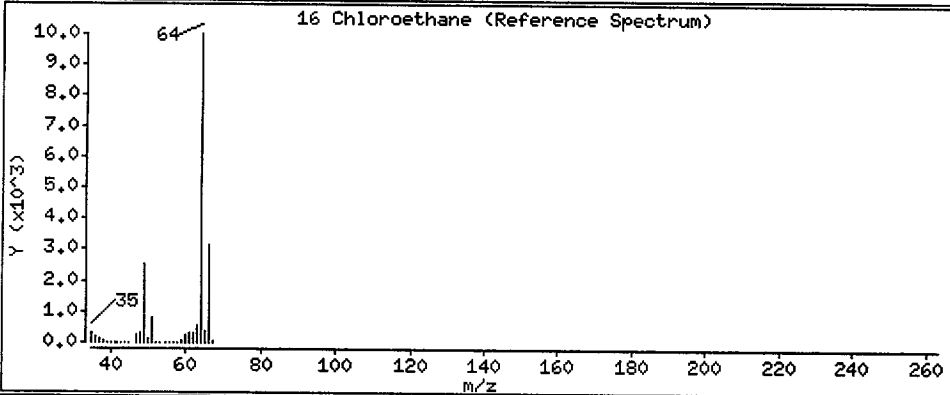
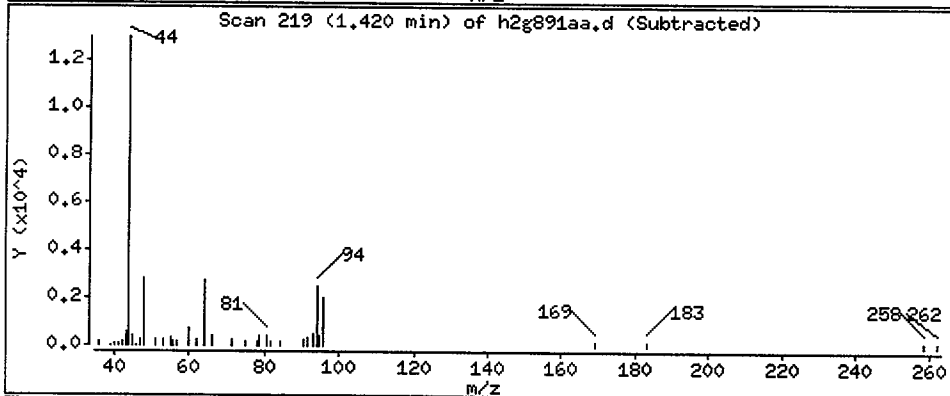
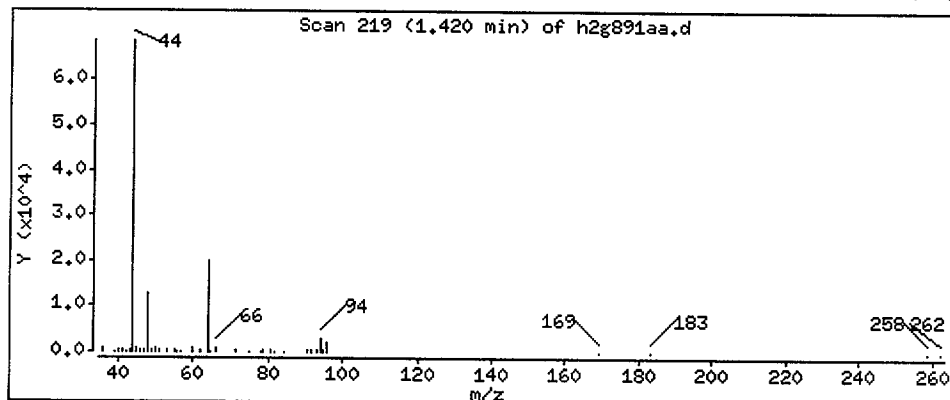
Operator: 22980

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,,

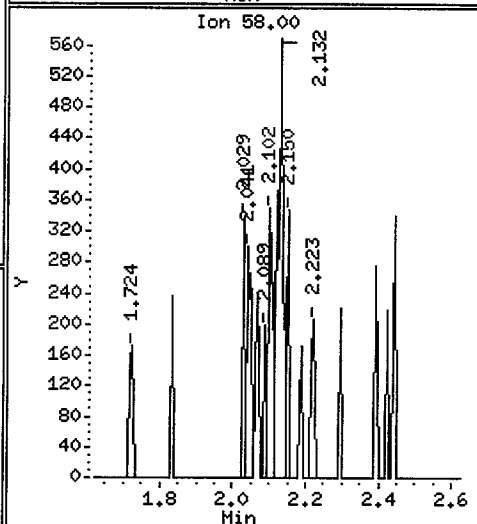
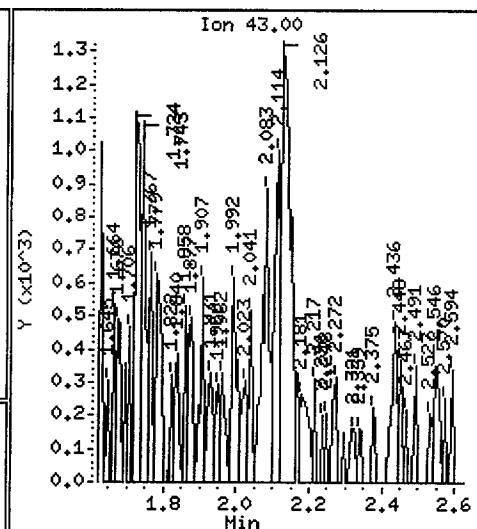
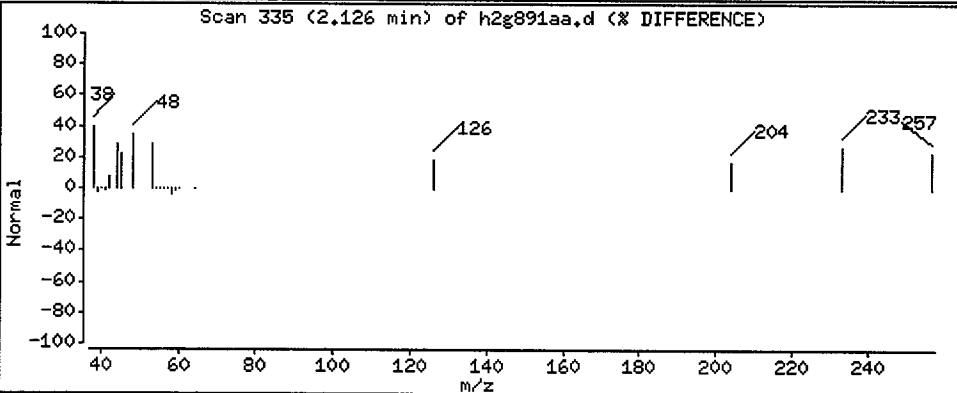
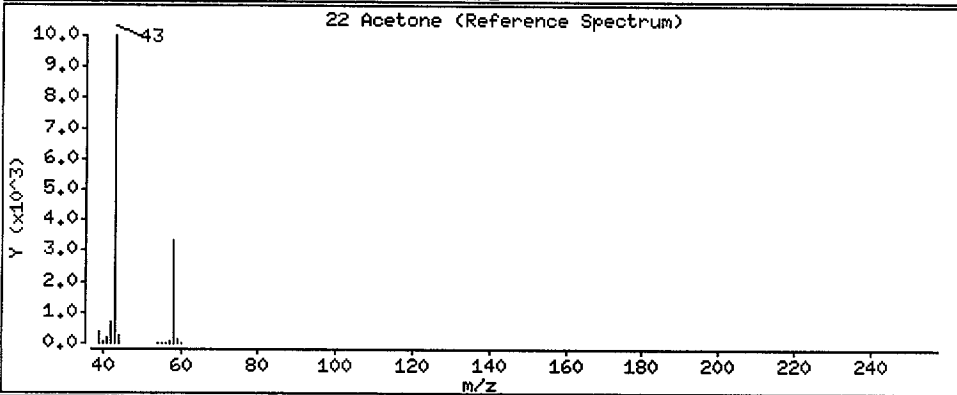
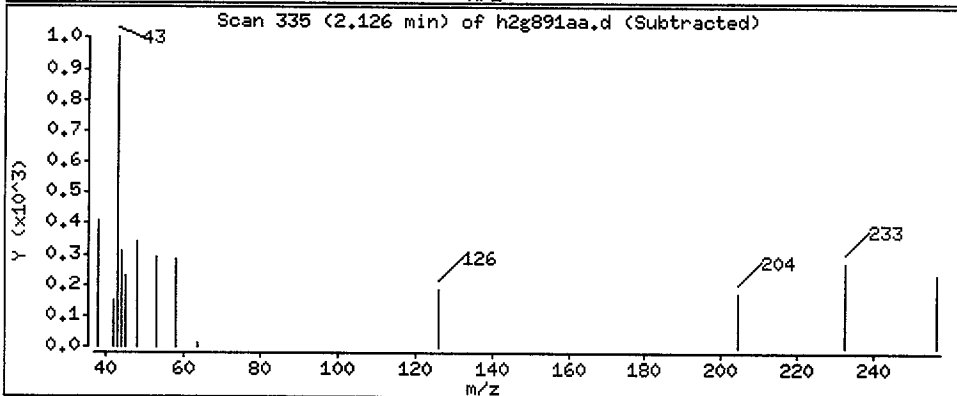
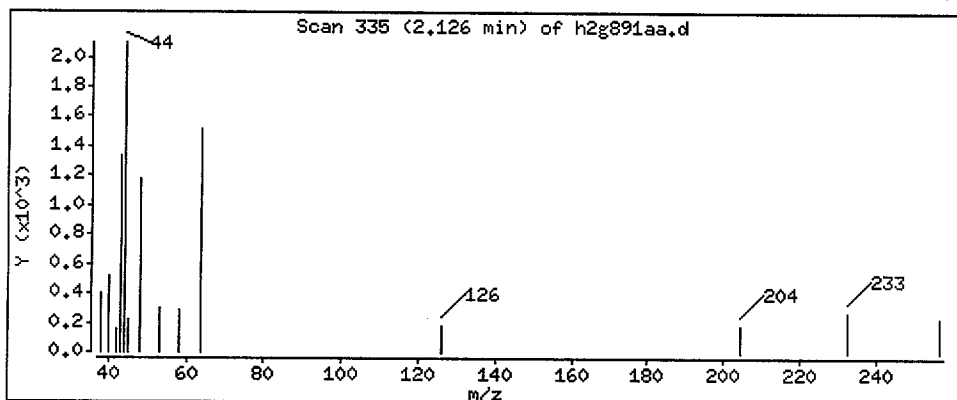
Operator: 22980

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,,

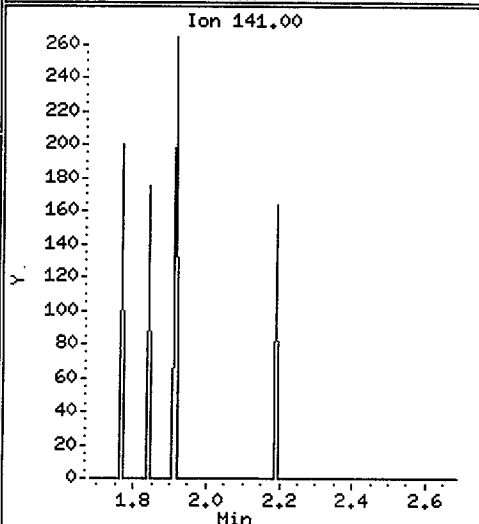
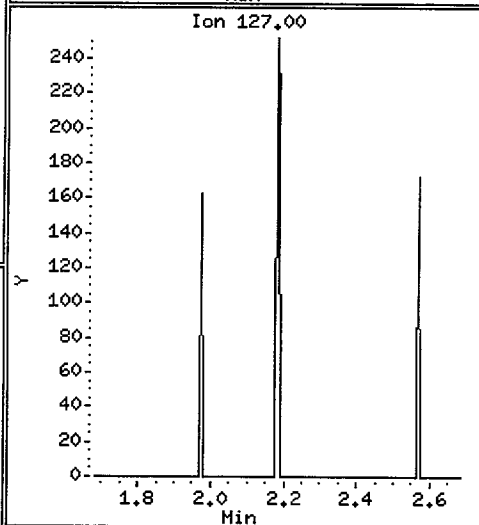
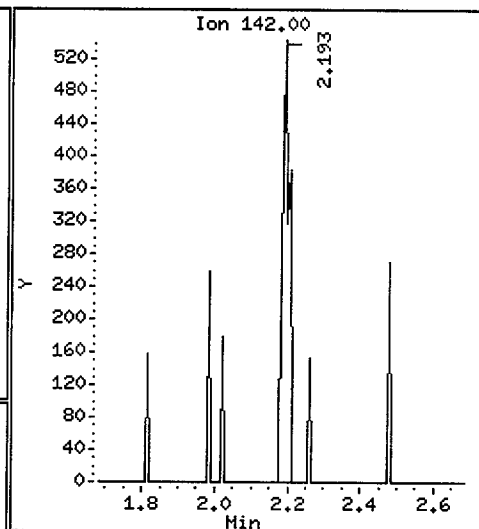
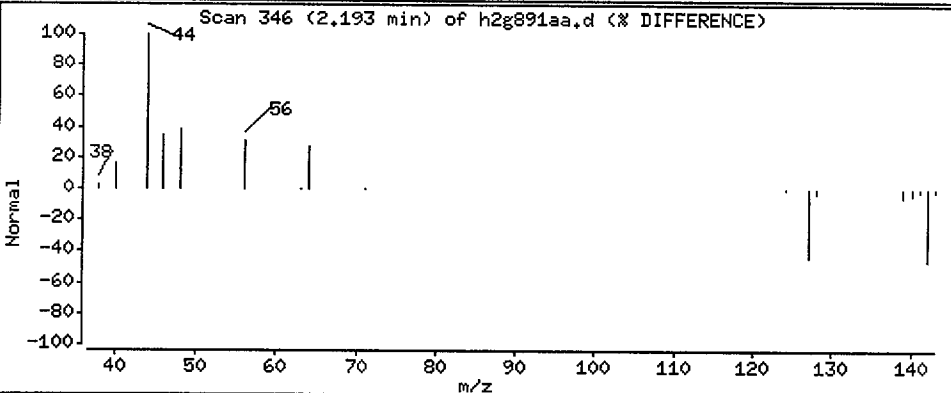
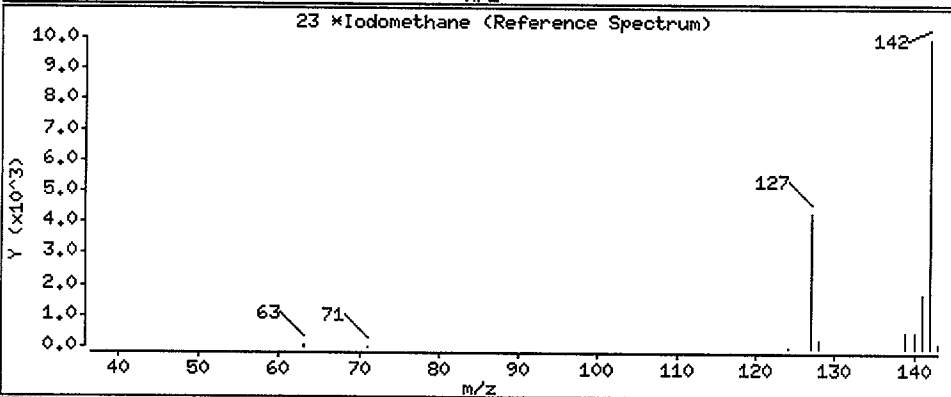
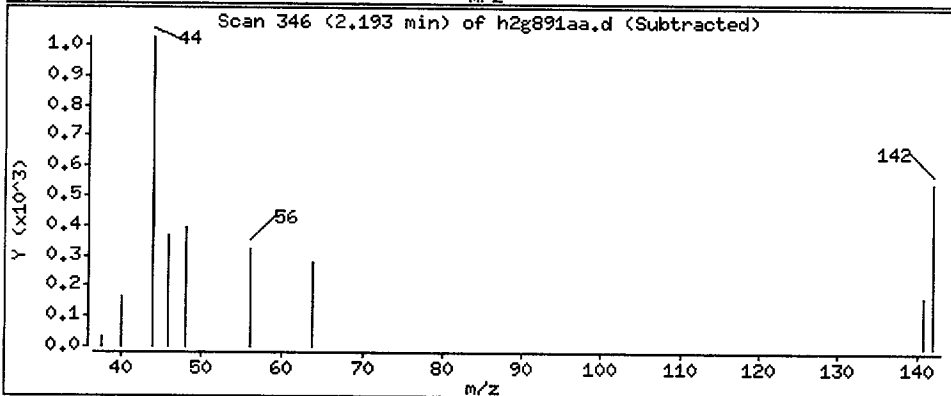
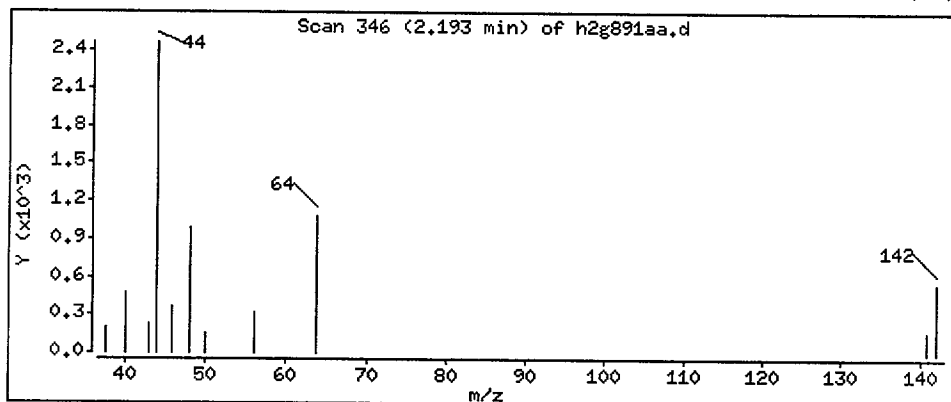
Operator: 22980

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,,

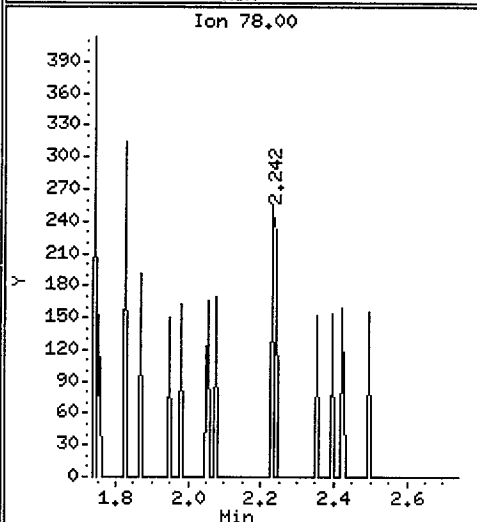
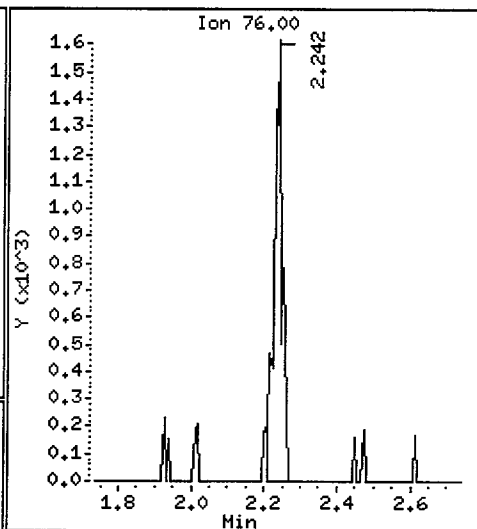
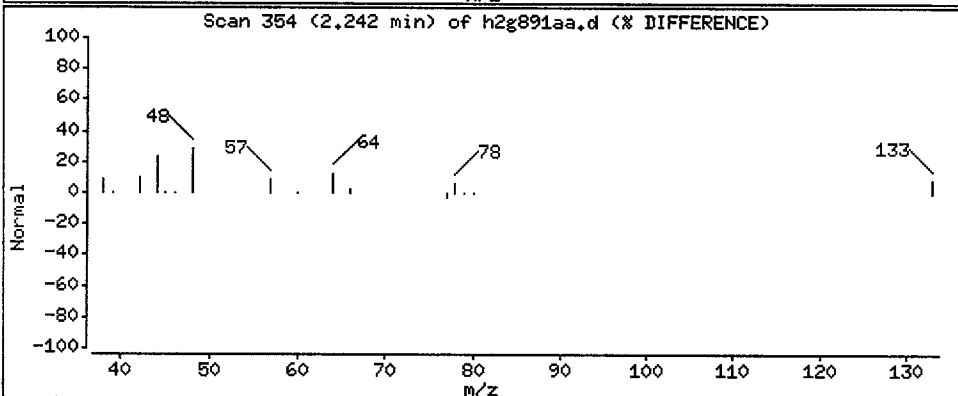
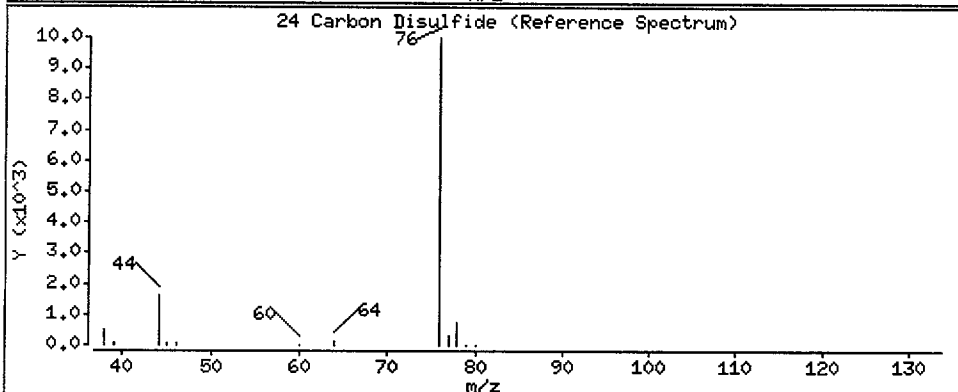
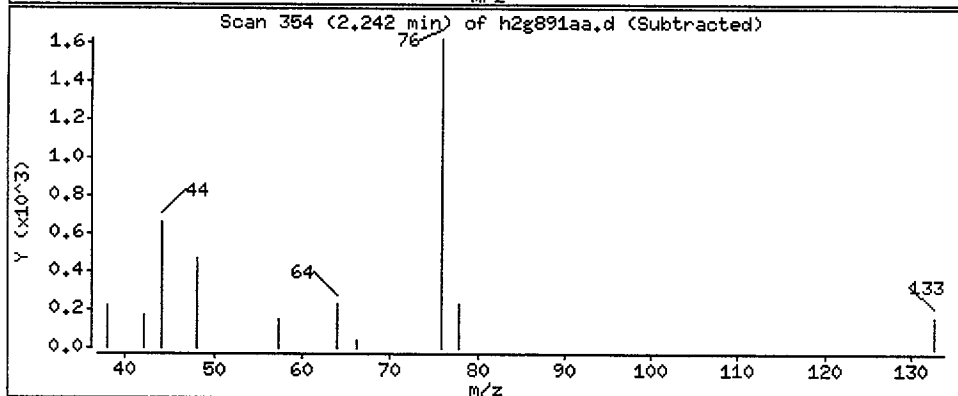
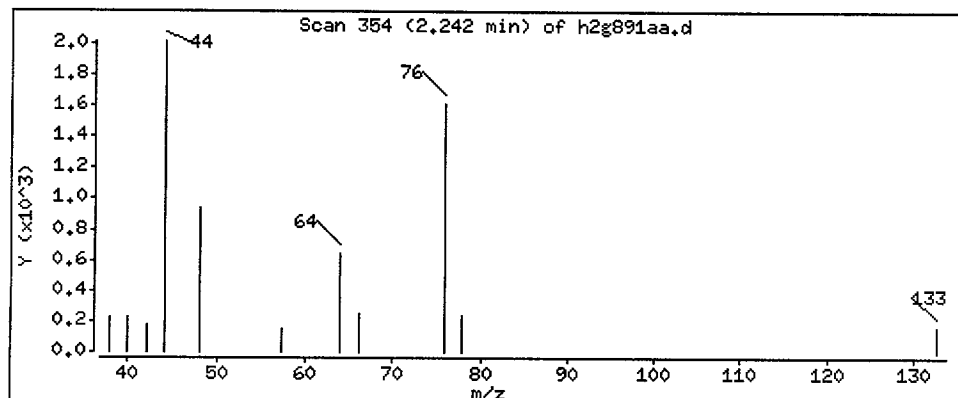
Operator: 22980

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,,

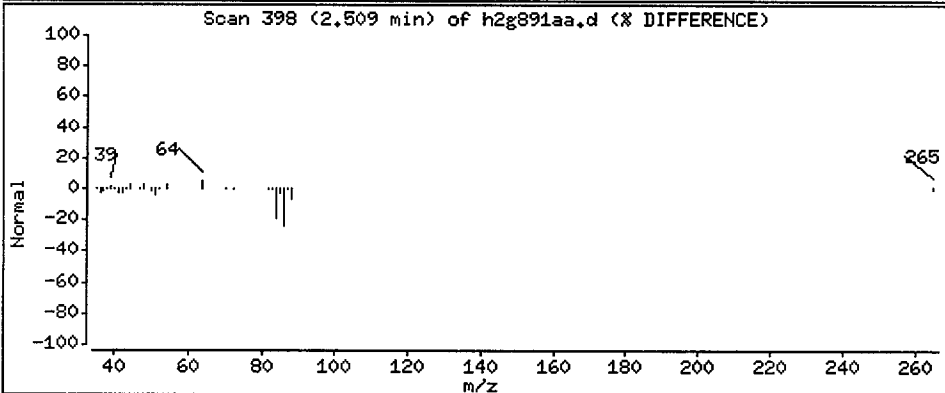
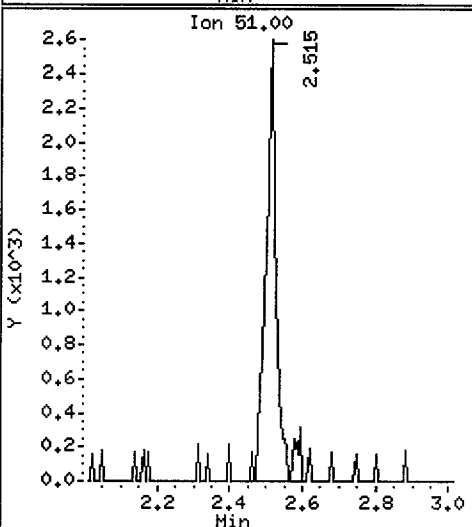
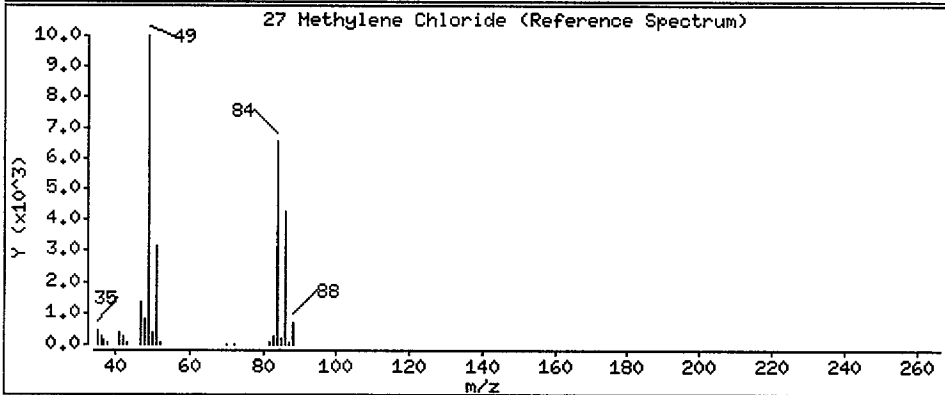
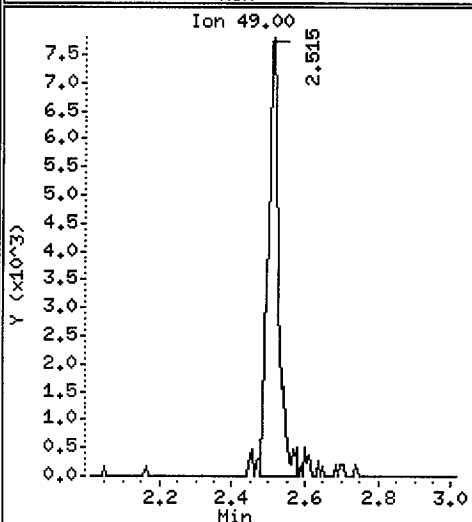
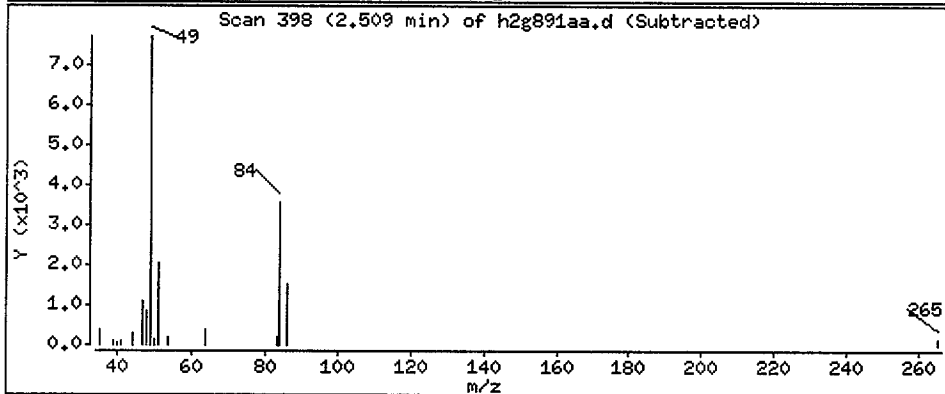
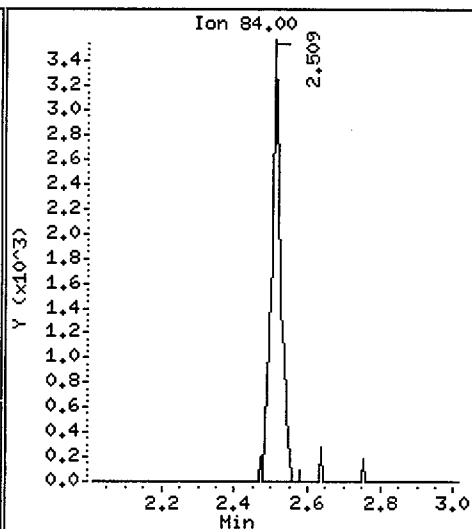
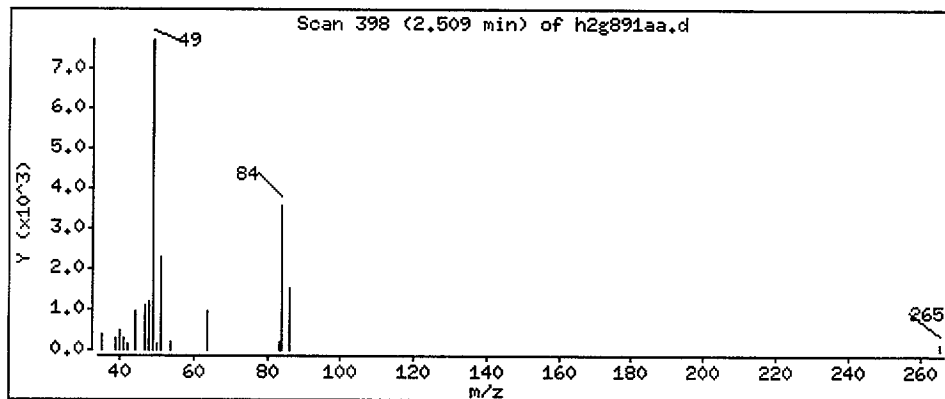
Operator: 22980

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,,

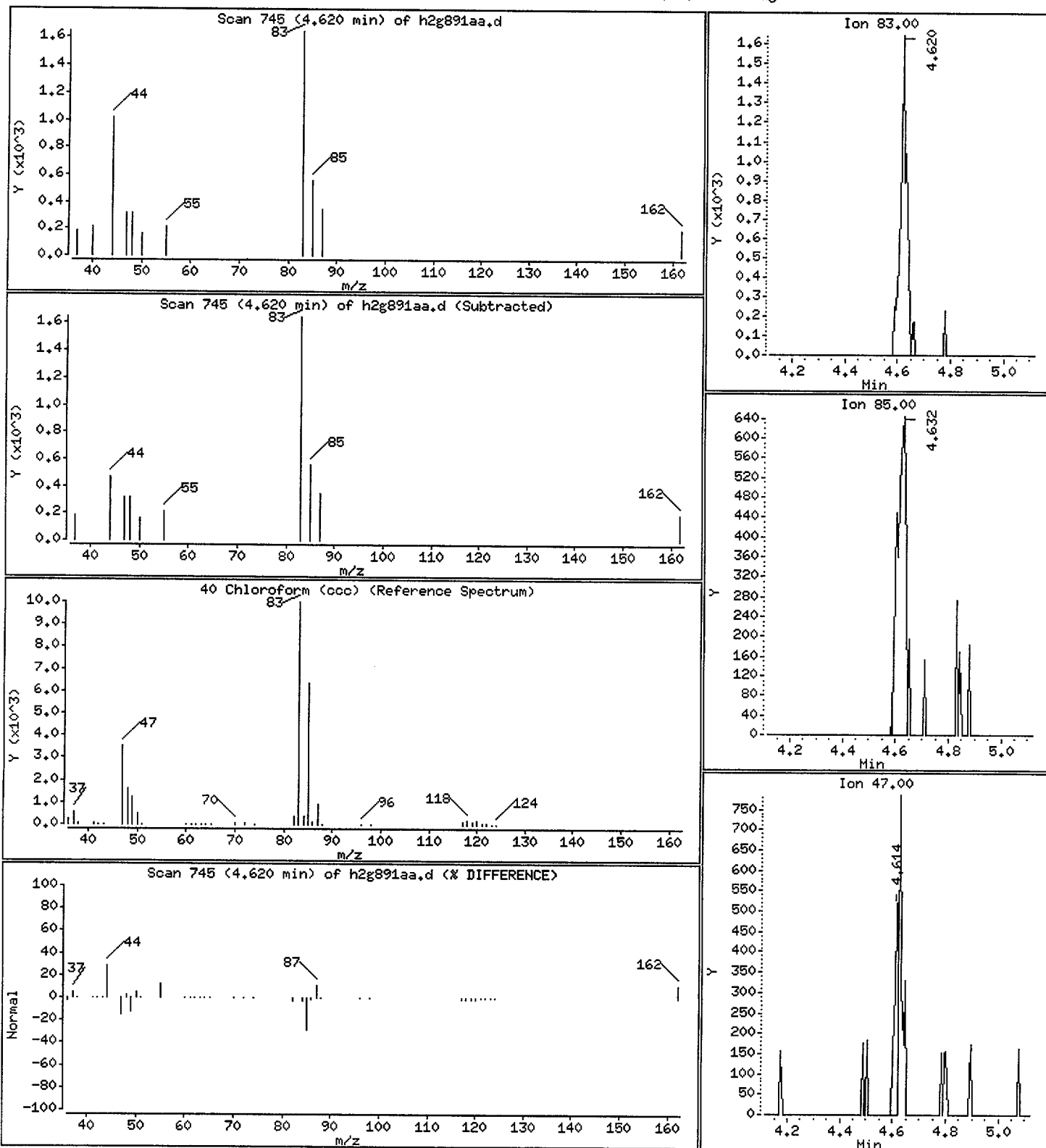
Operator: 22980

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,,

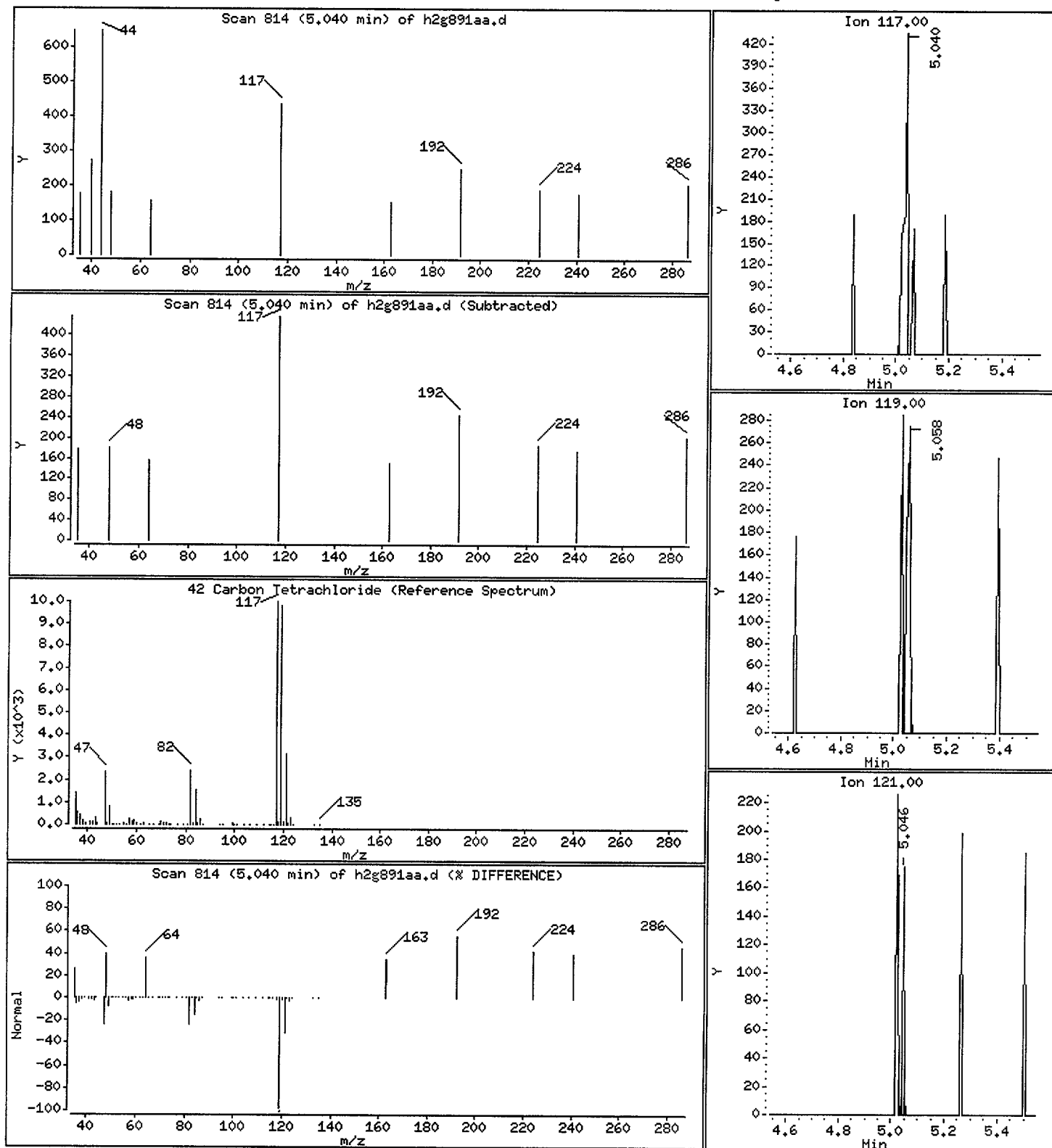
Operator: 22980

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,,

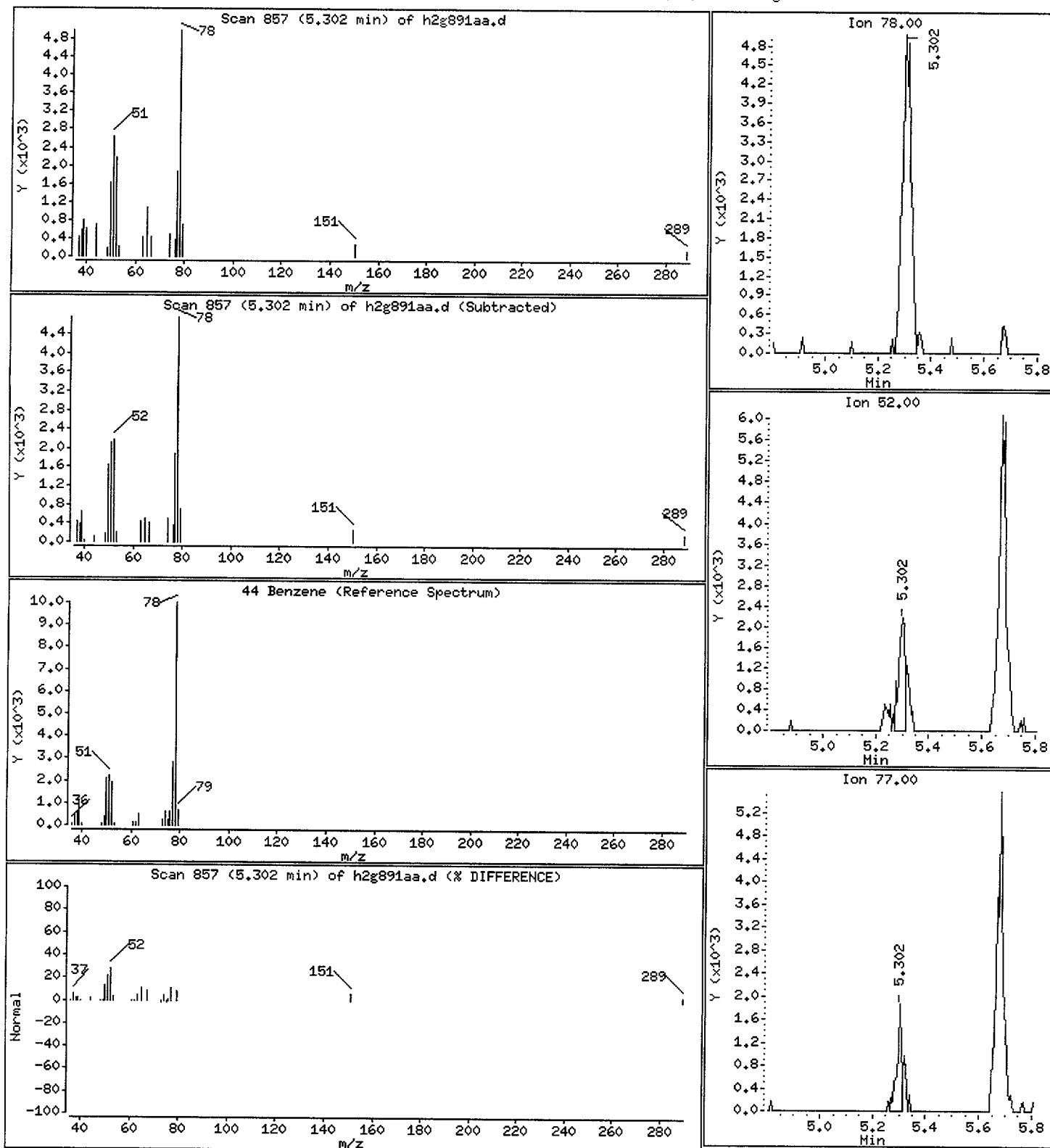
Column phase: J+W 624

Operator: 22980

Column diameter: 0.18

44 Benzene

Concentration: 0.0047451 ug

2004.11.06
(1)

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,,

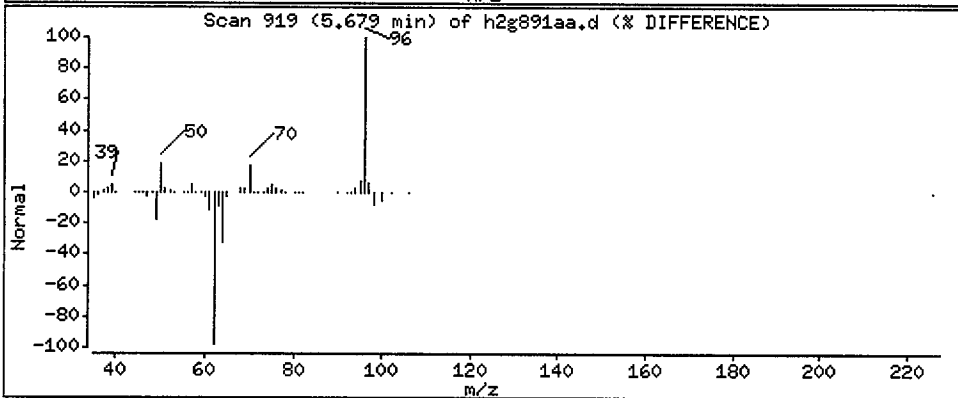
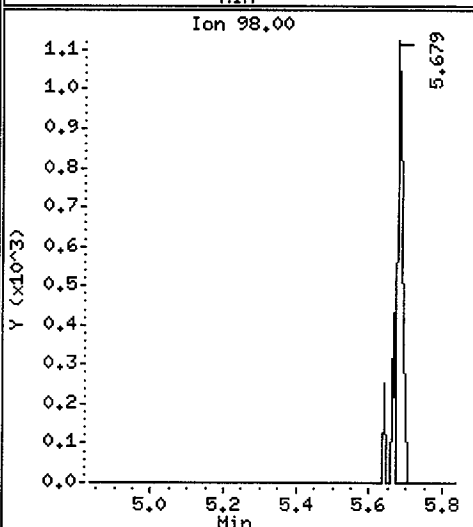
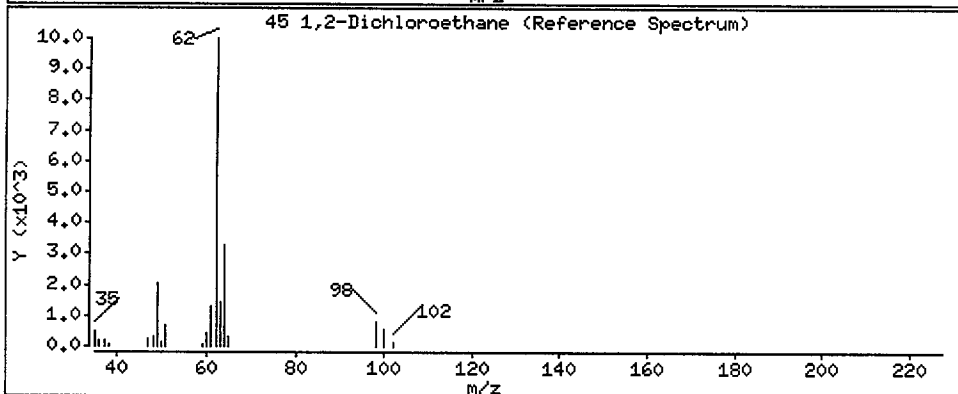
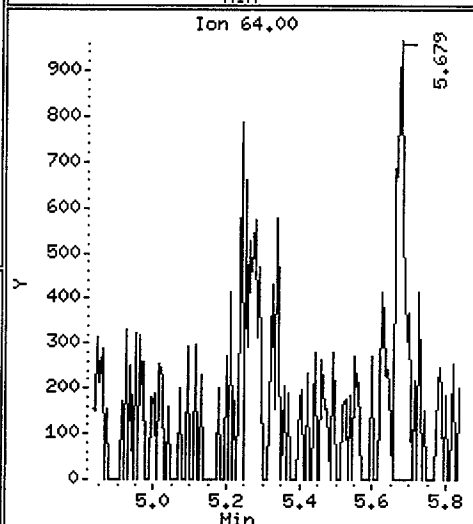
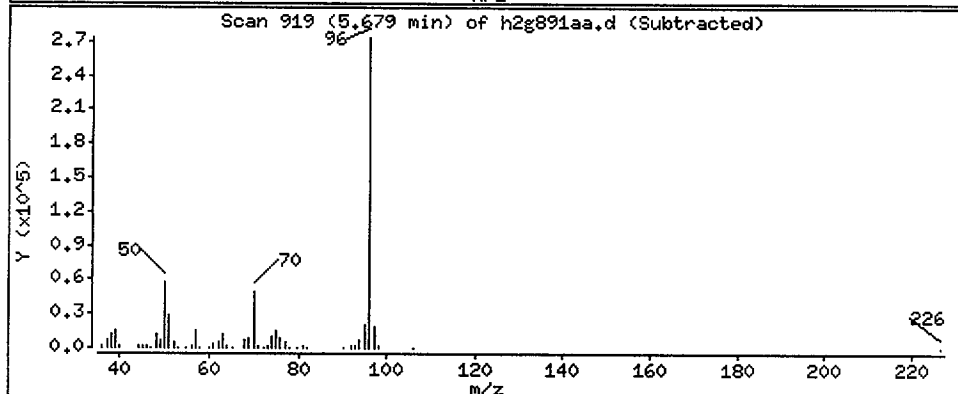
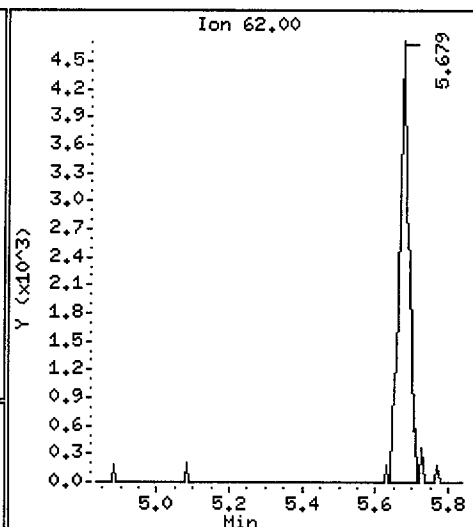
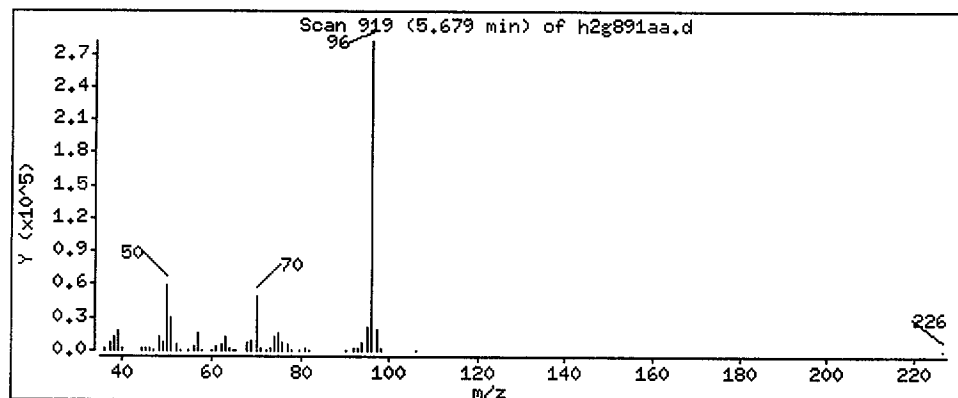
Operator: 22980

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,,

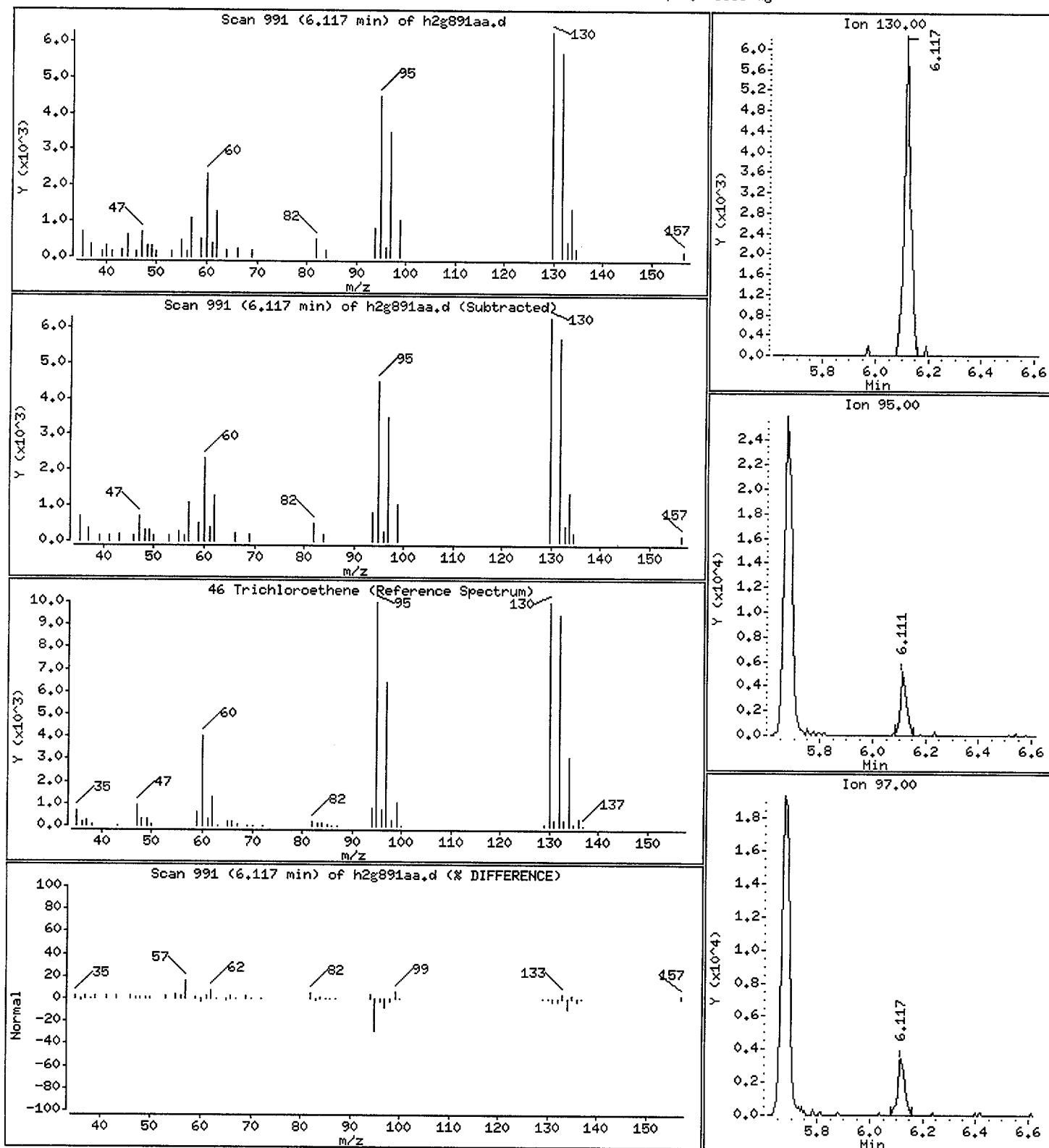
Operator: 22980

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,,

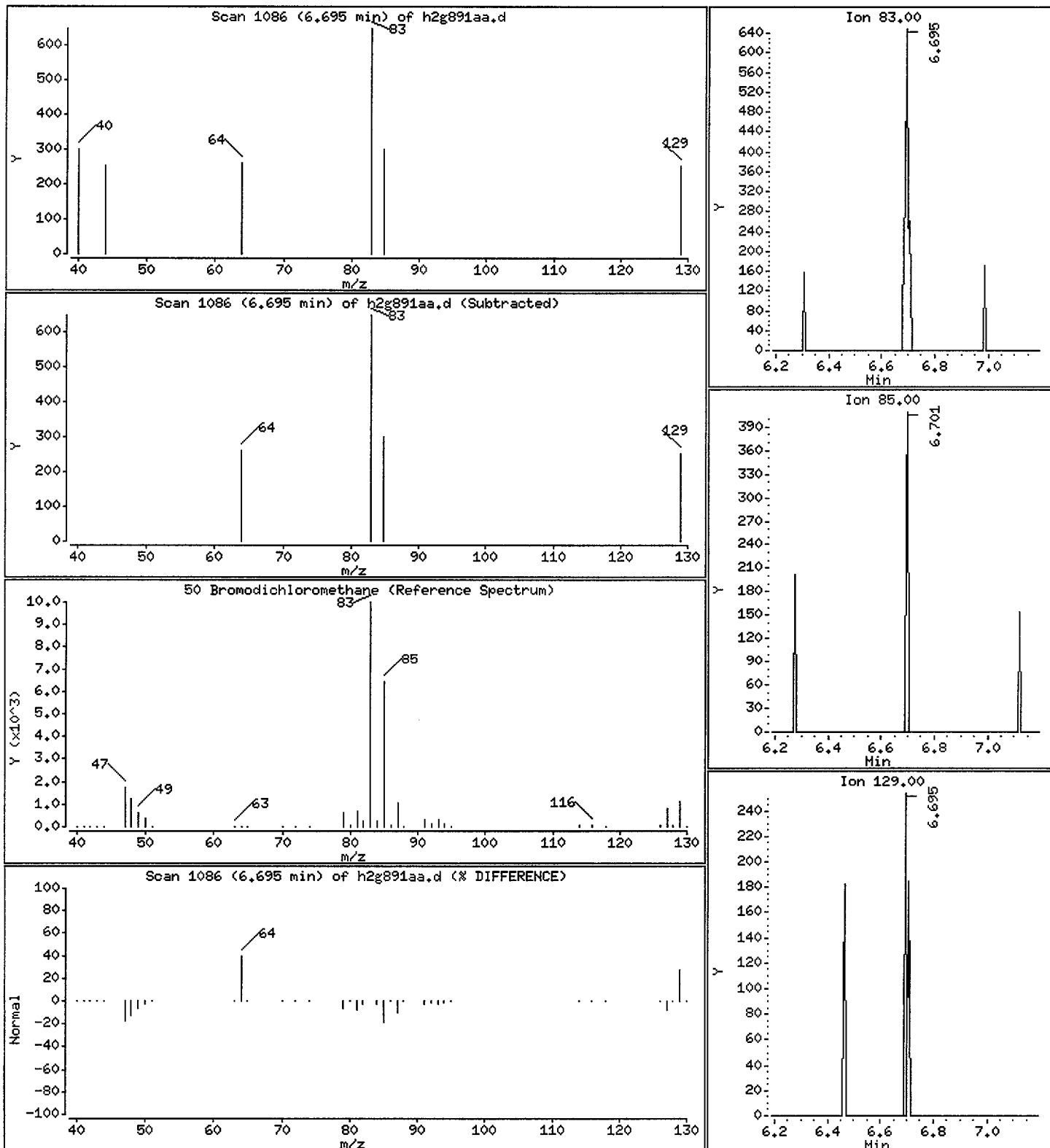
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

50 Bromodichloromethane

Concentration: 0.019716 ug



Data File: /chem/gcms/mz.i/2040706.b/h2g891aa.d

Date: 07-APR-2006 17:54

Client ID: G-2911-R1-VOST PAIR

Sample Info: H2G891AA,1,0,,

Instrument: mz.i

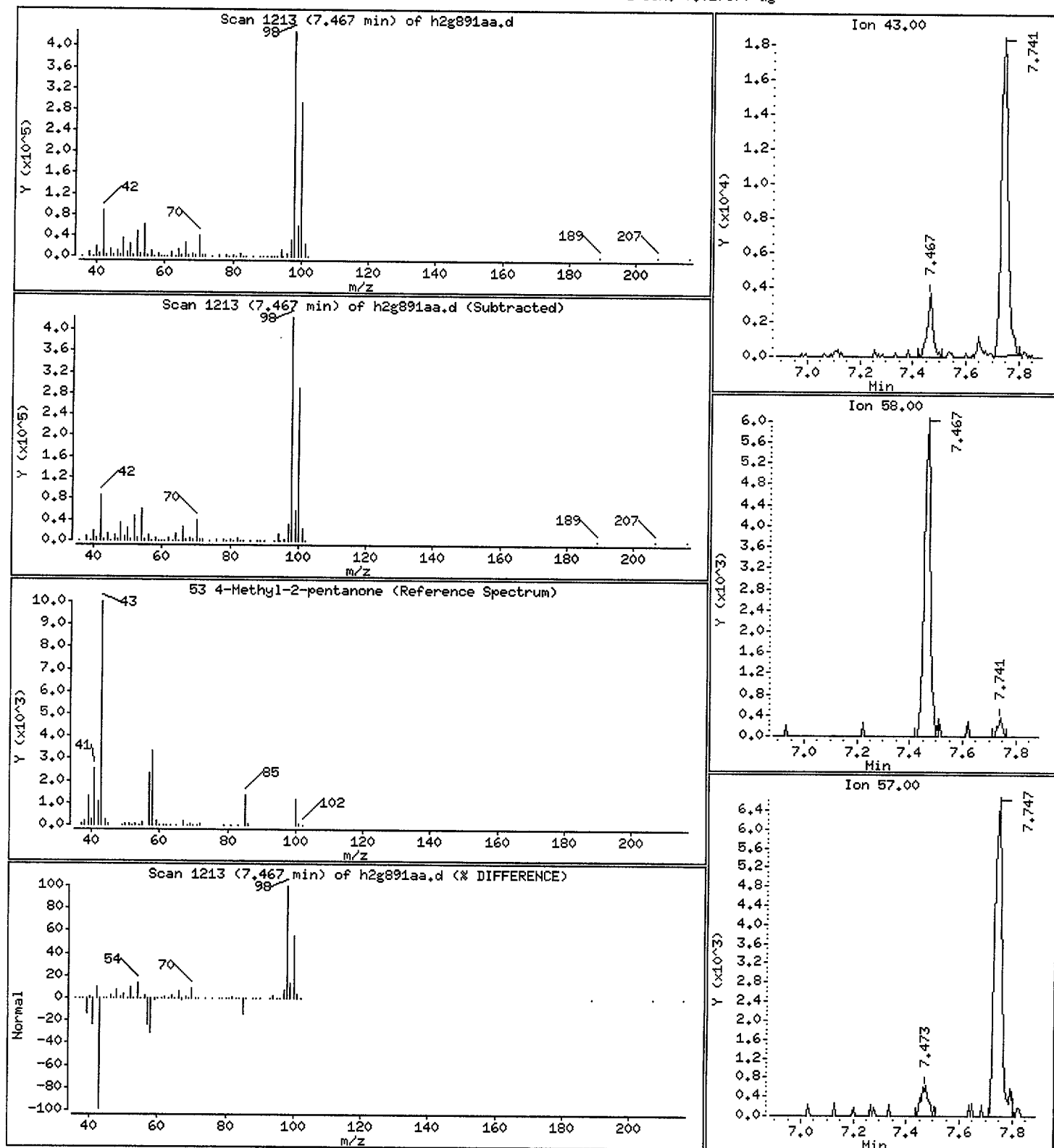
Operator: 22980

Column diameter: 0.18

Column phase: J+W 624

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,,

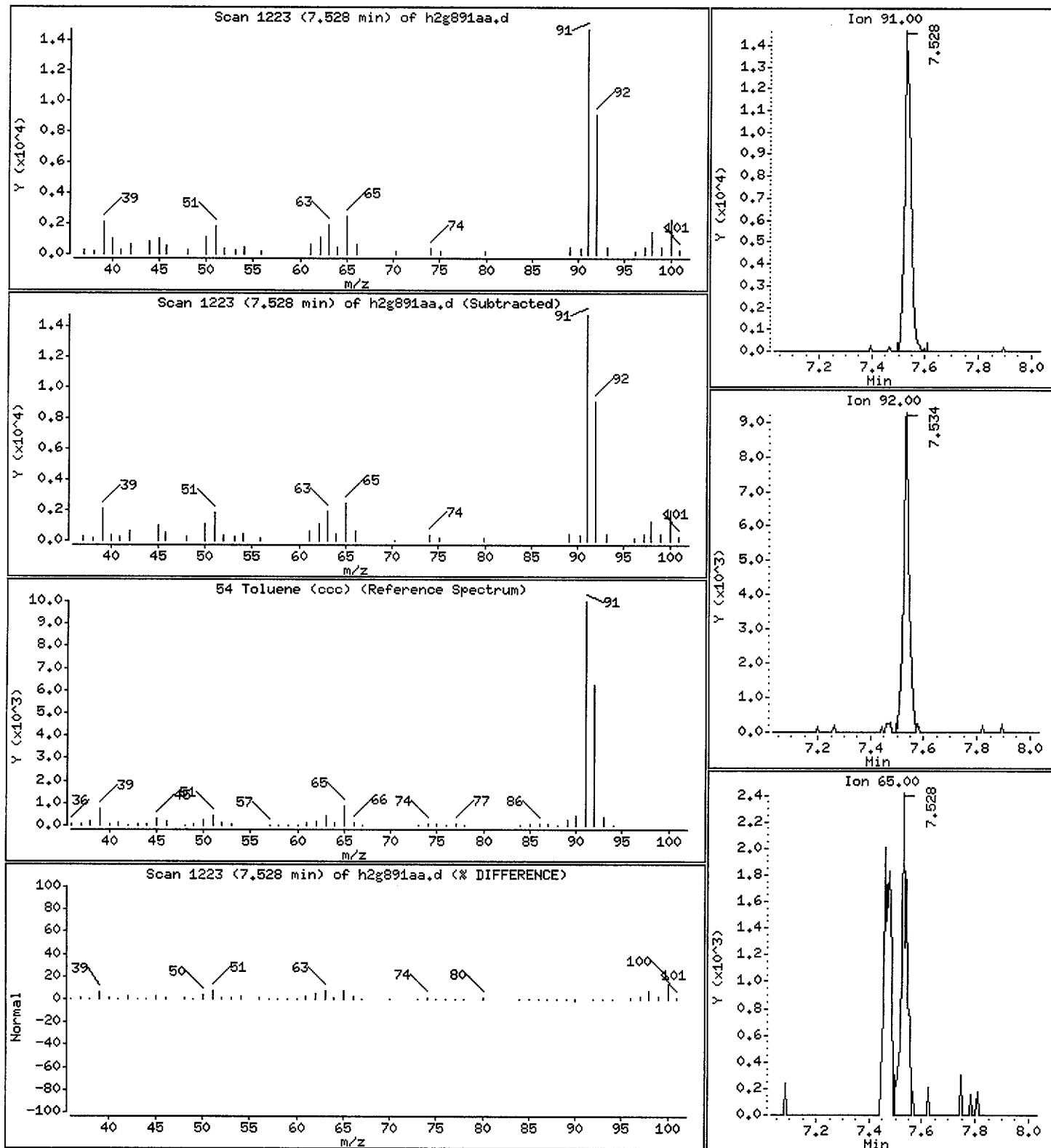
Operator: 22980

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,,

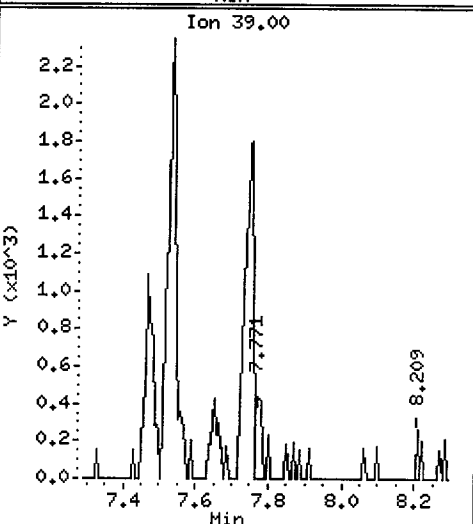
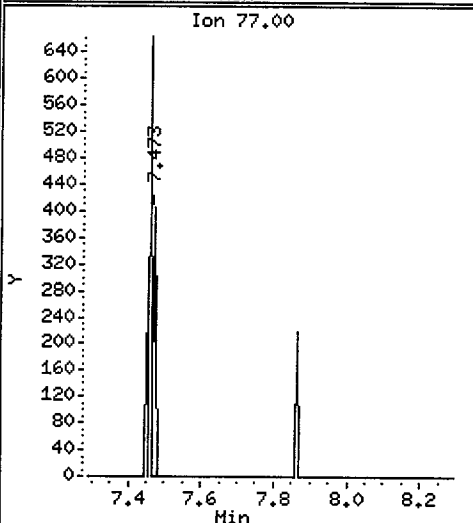
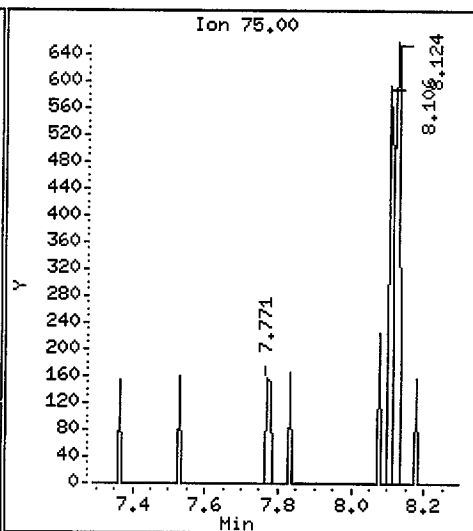
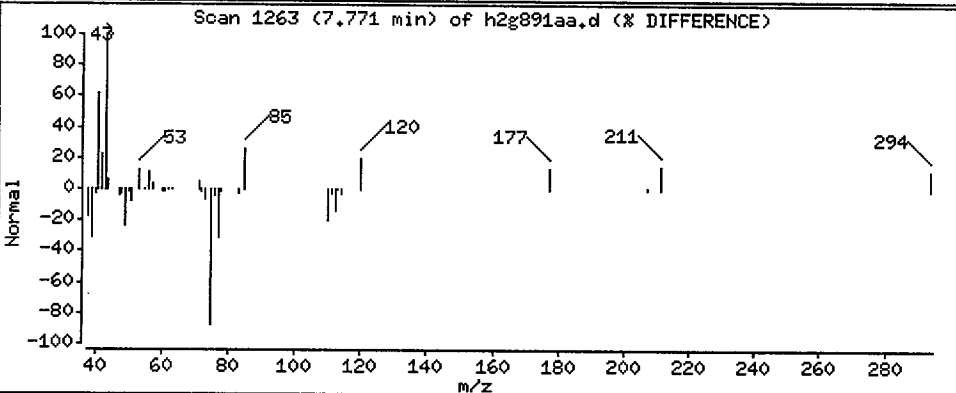
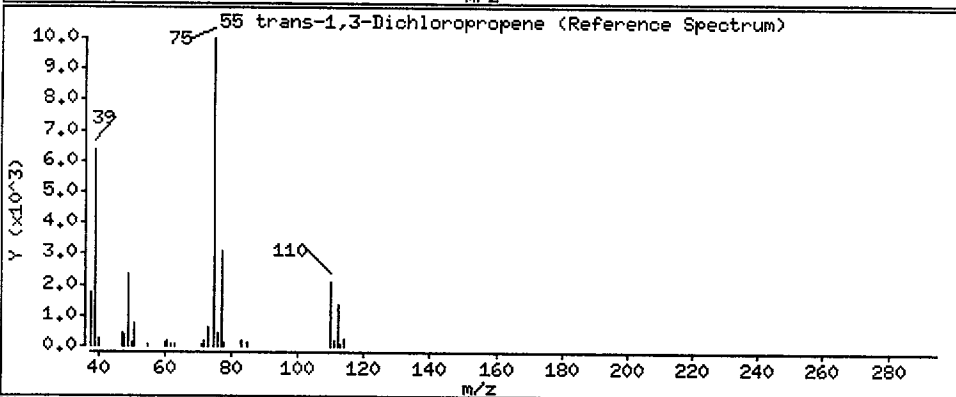
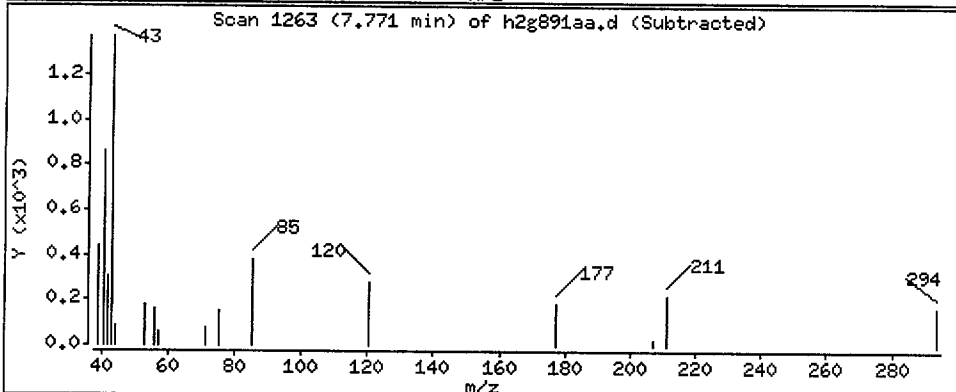
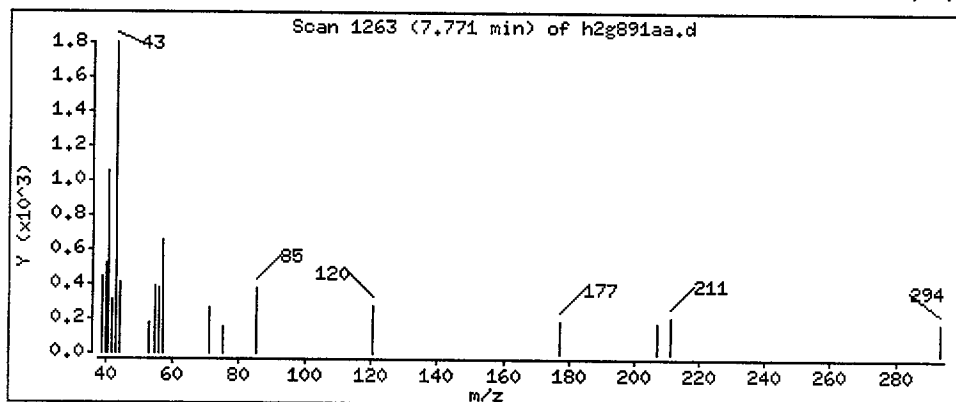
Operator: 22980

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,,

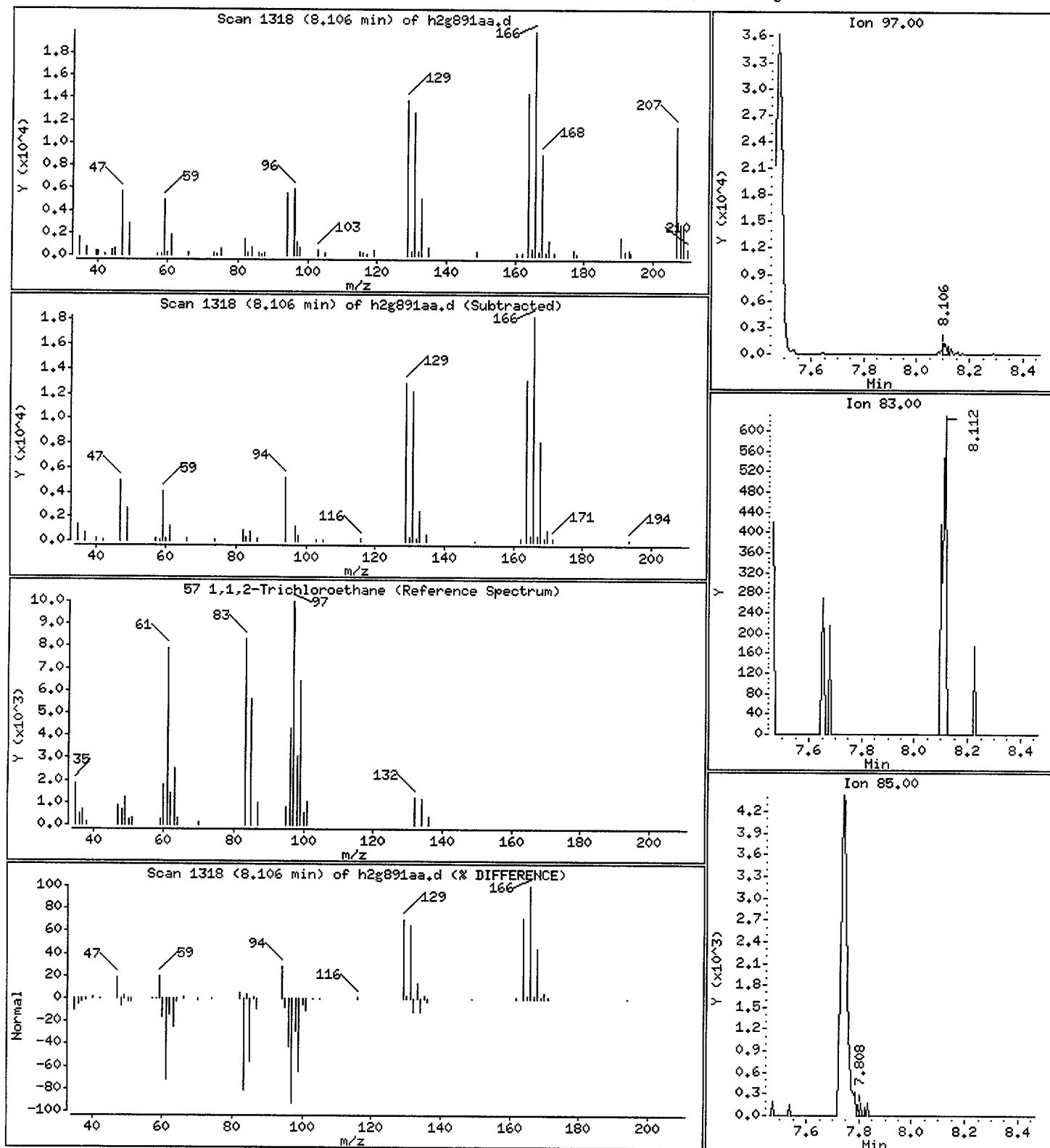
Operator: 22980

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,,

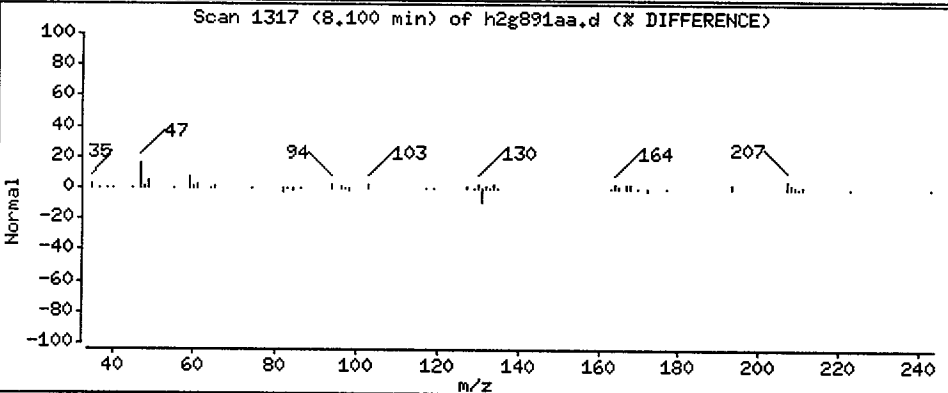
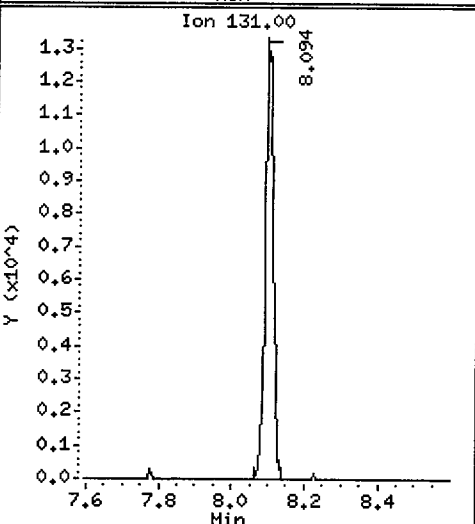
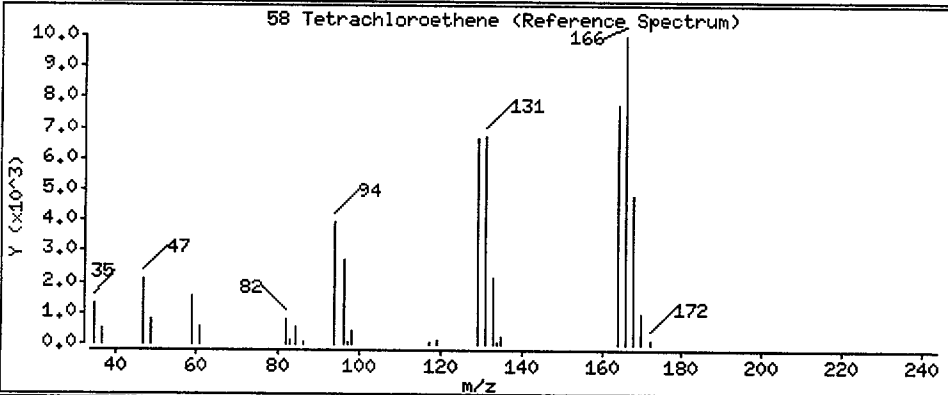
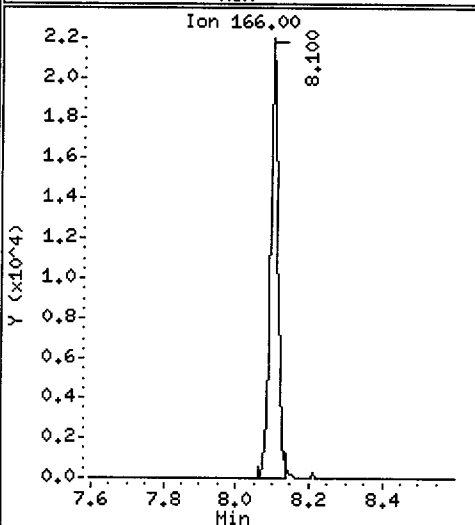
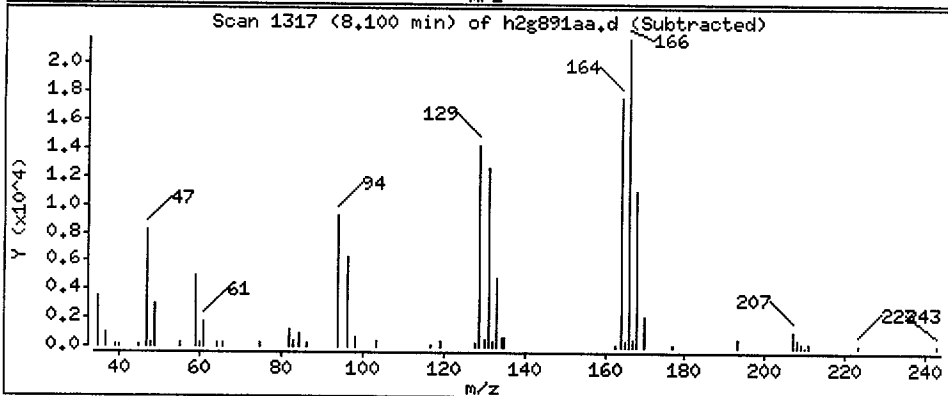
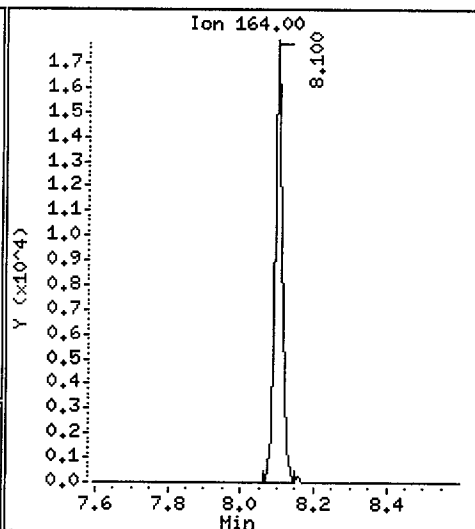
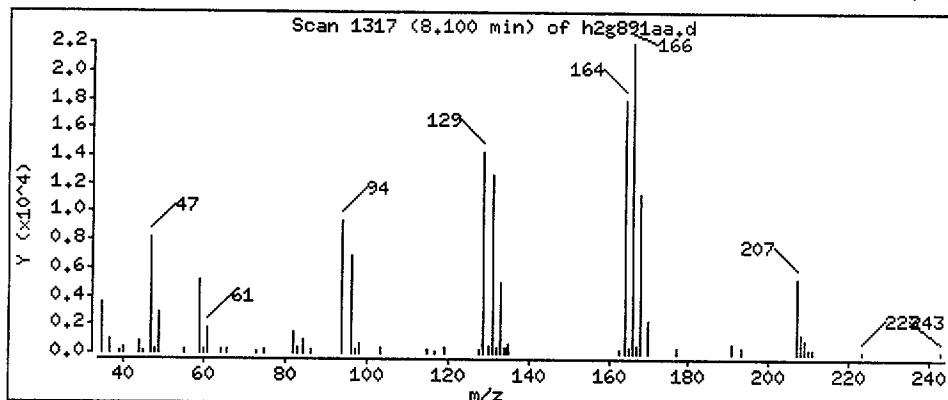
Operator: 22980

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,,

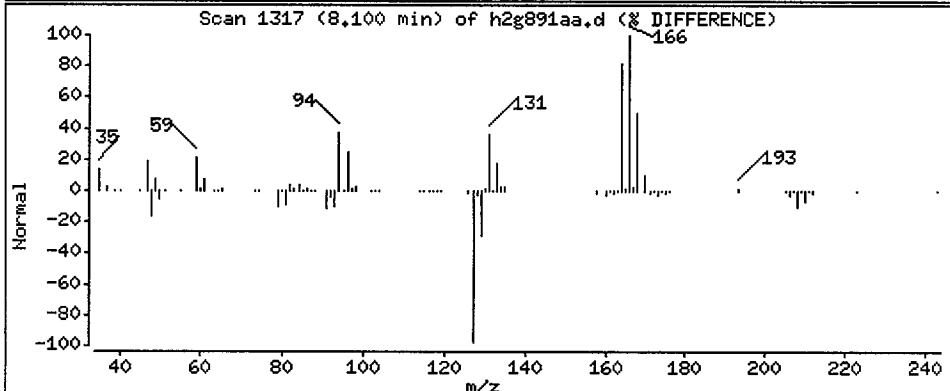
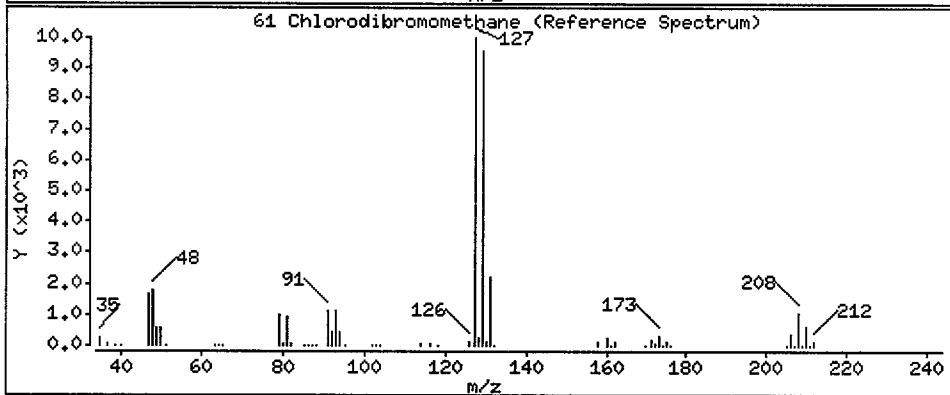
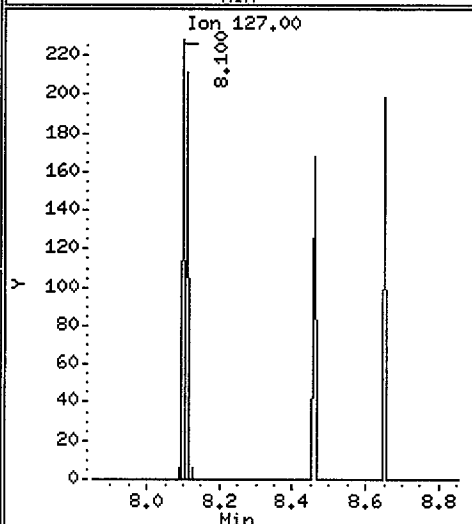
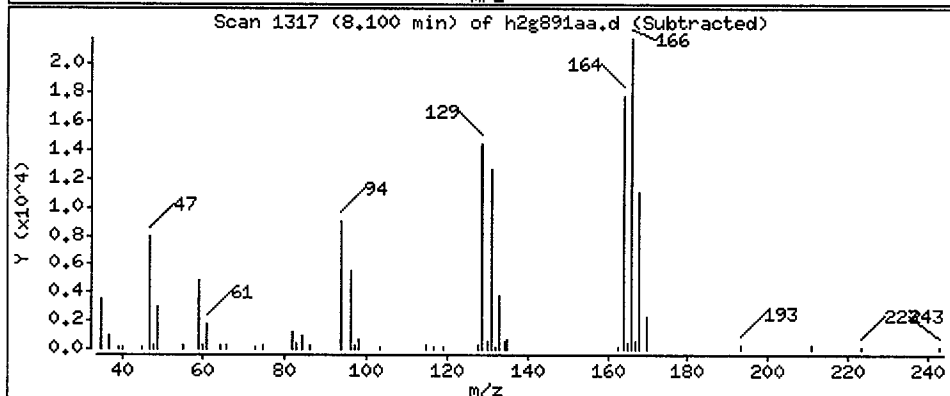
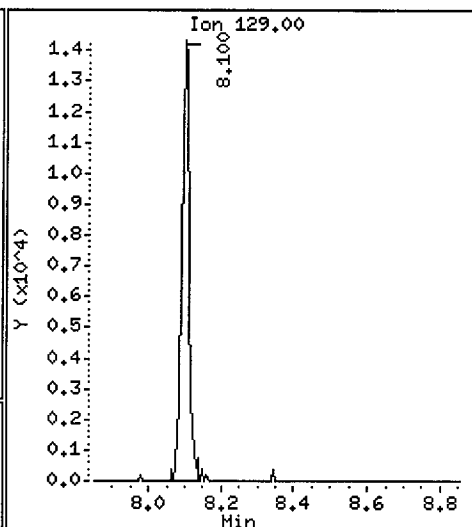
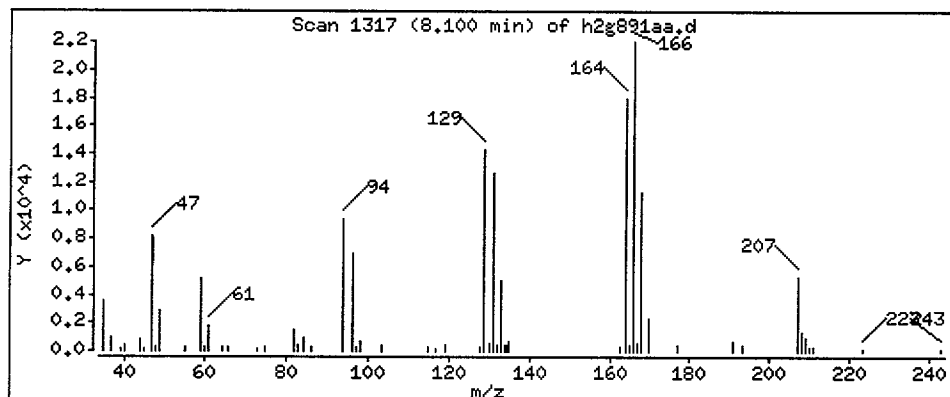
Operator: 22980

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,,

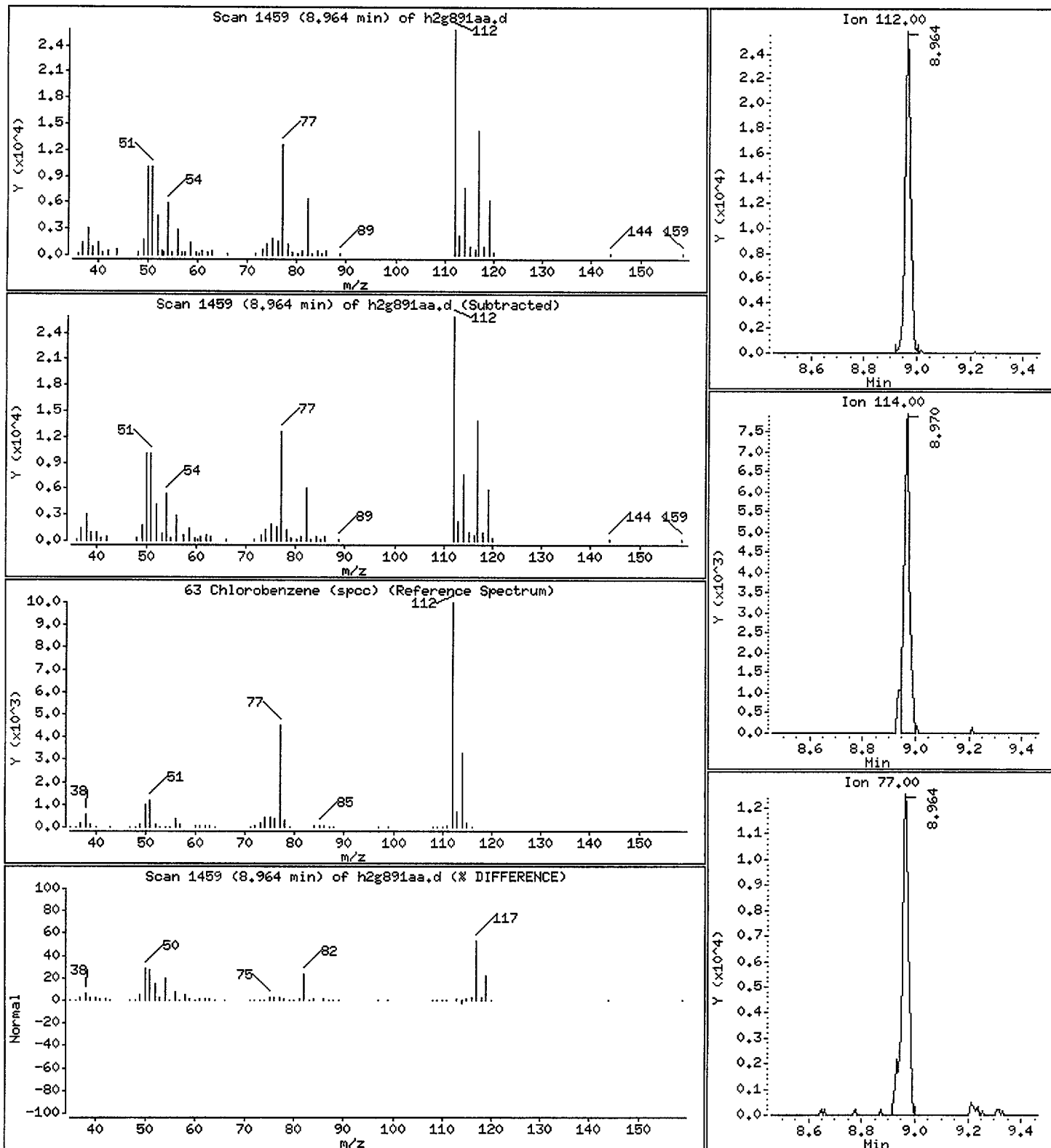
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

63 Chlorobenzene (spoc)

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,,

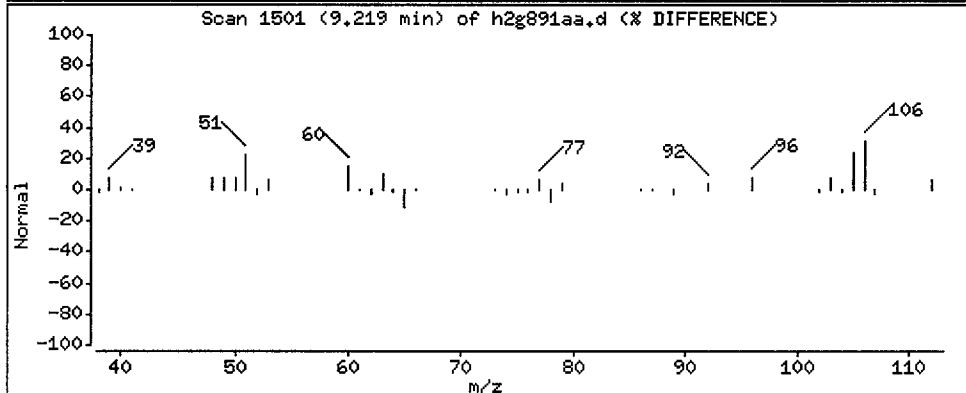
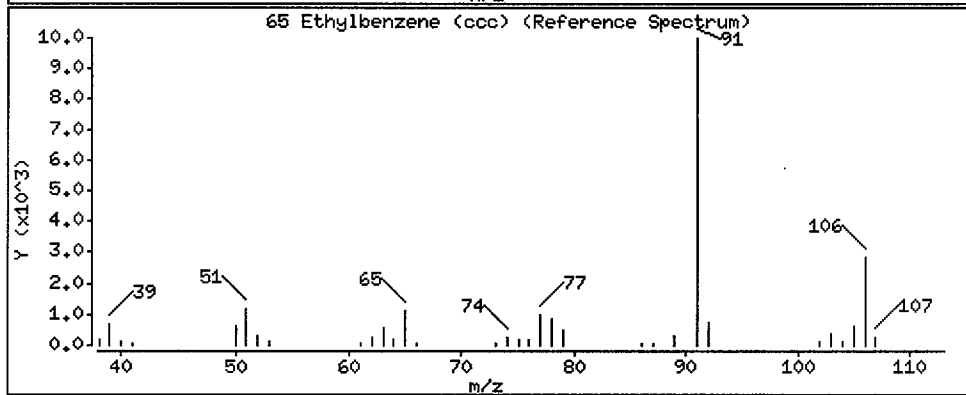
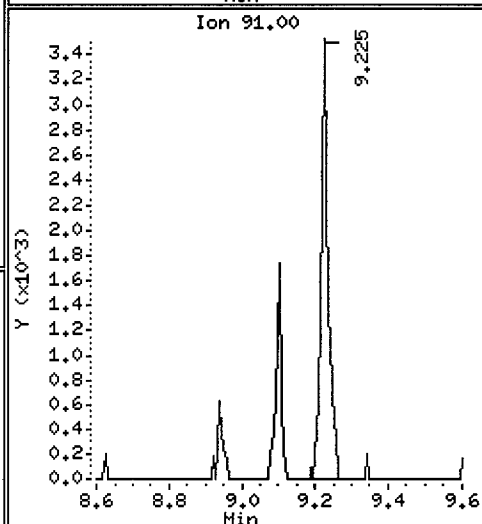
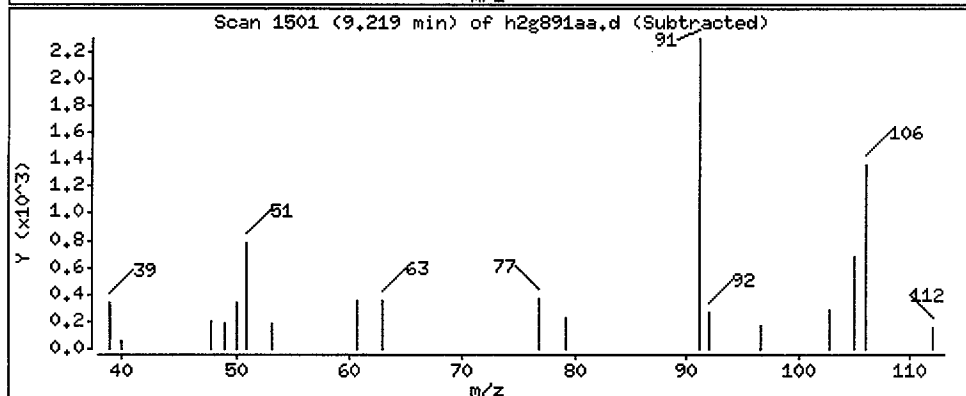
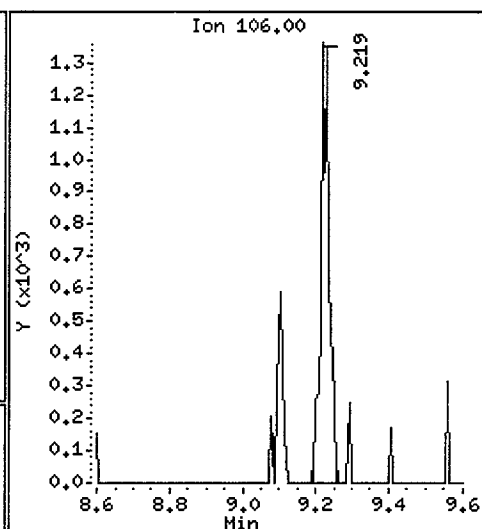
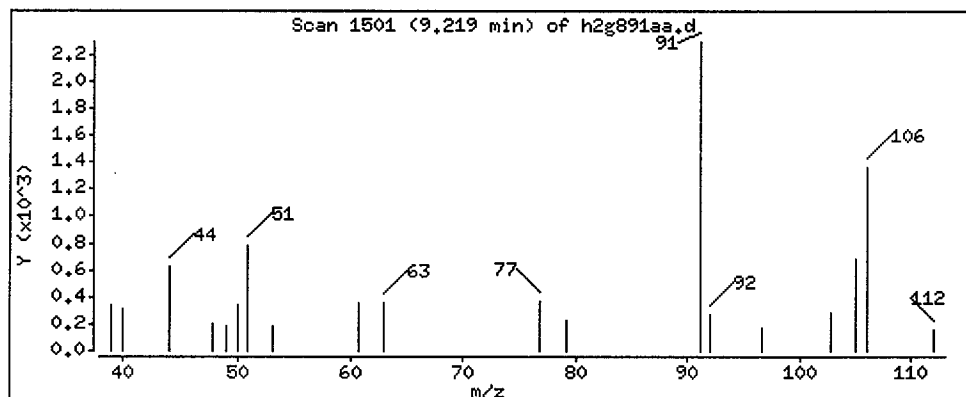
Operator: 22980

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,,

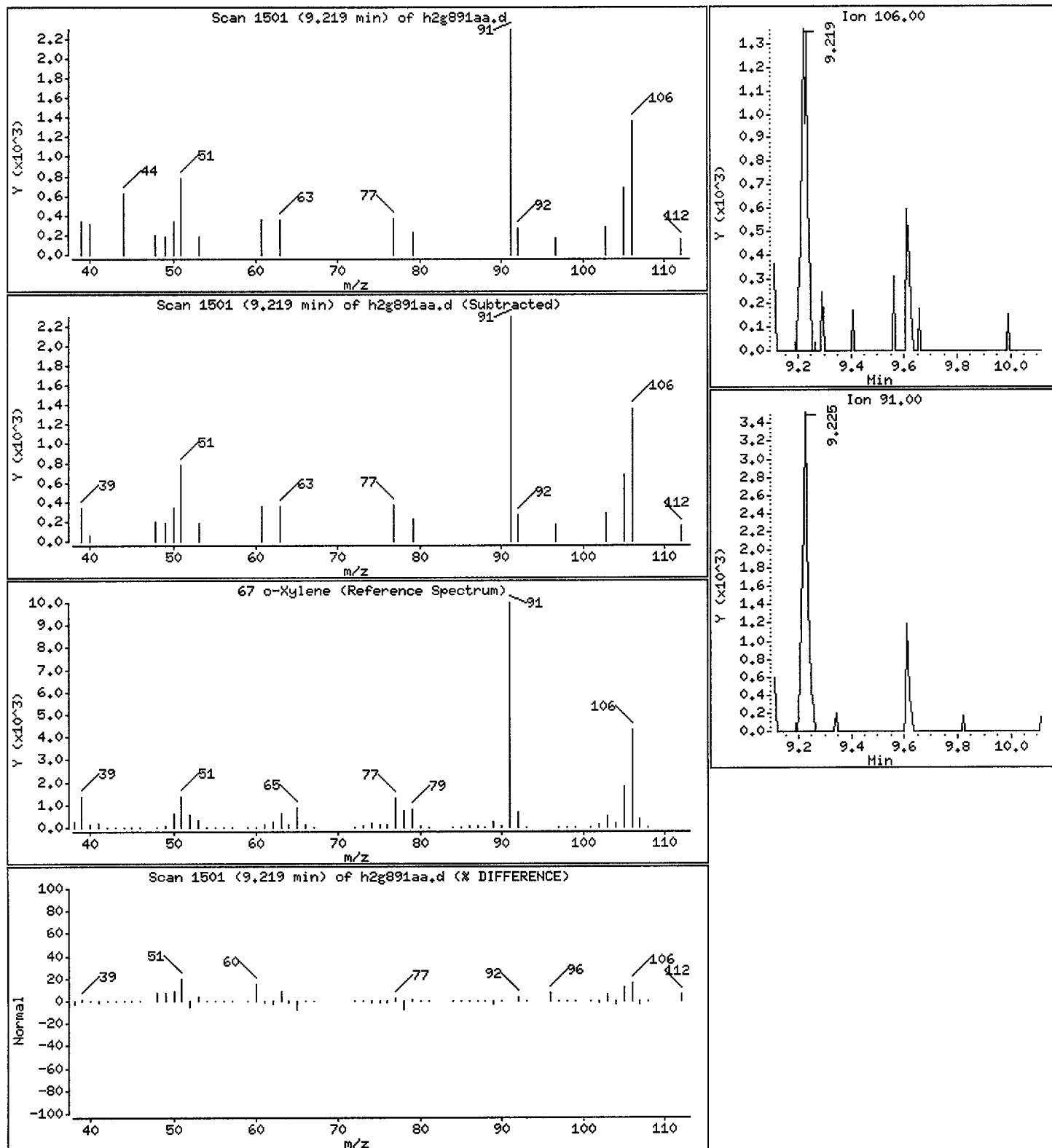
Operator: 22980

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,,

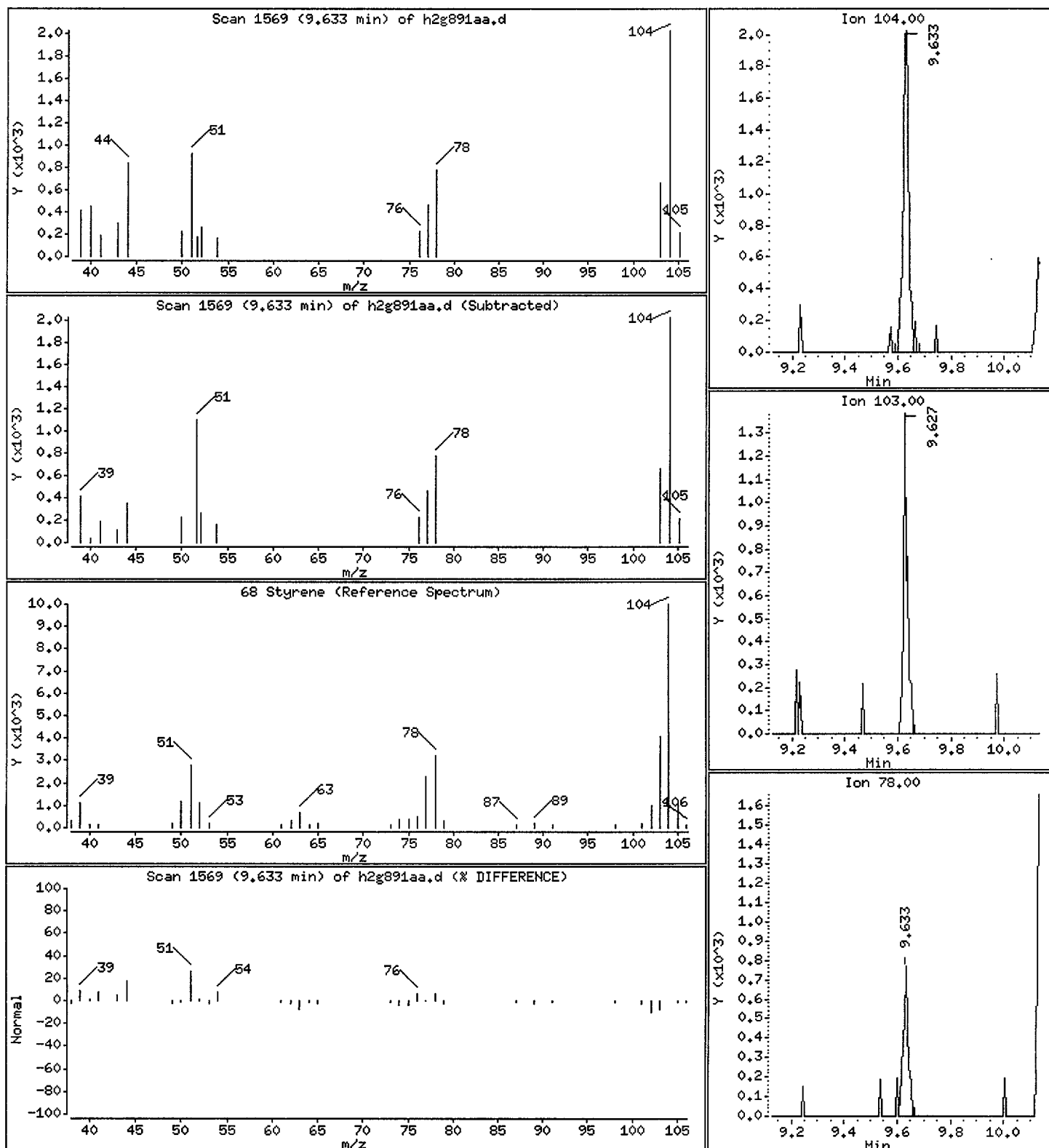
Operator: 22980

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,,

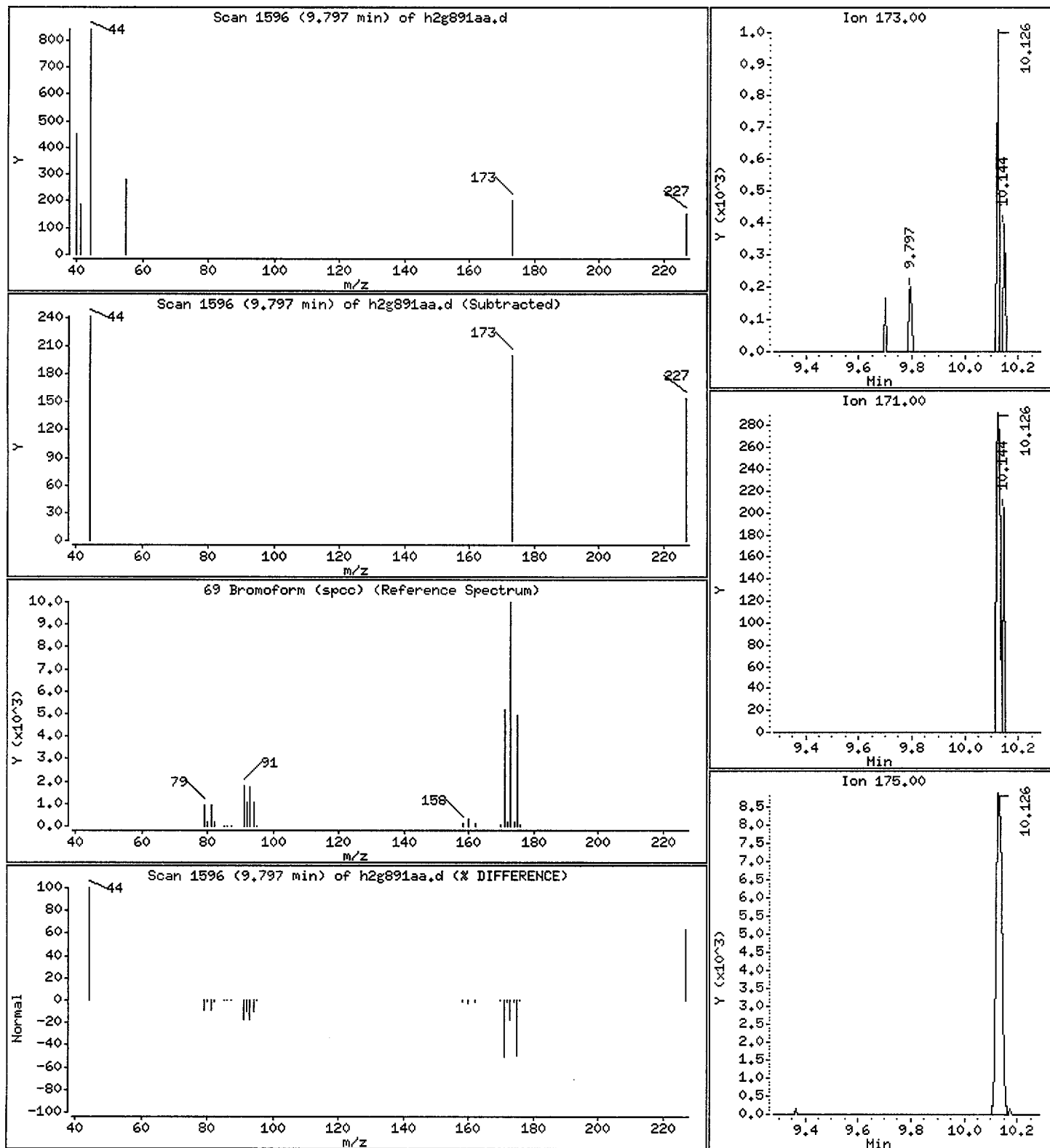
Operator: 22980

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,,

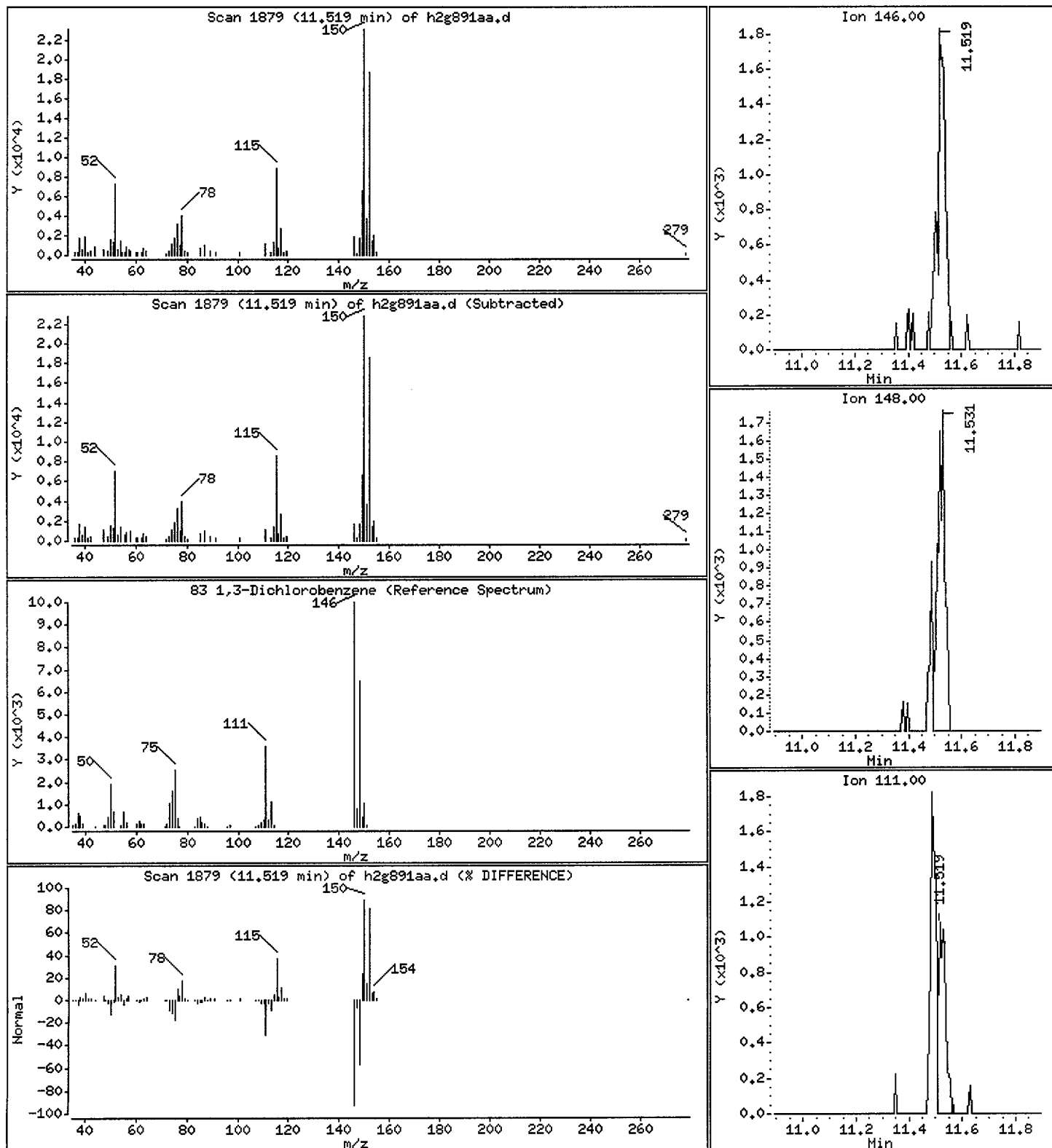
Operator: 22980

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,,

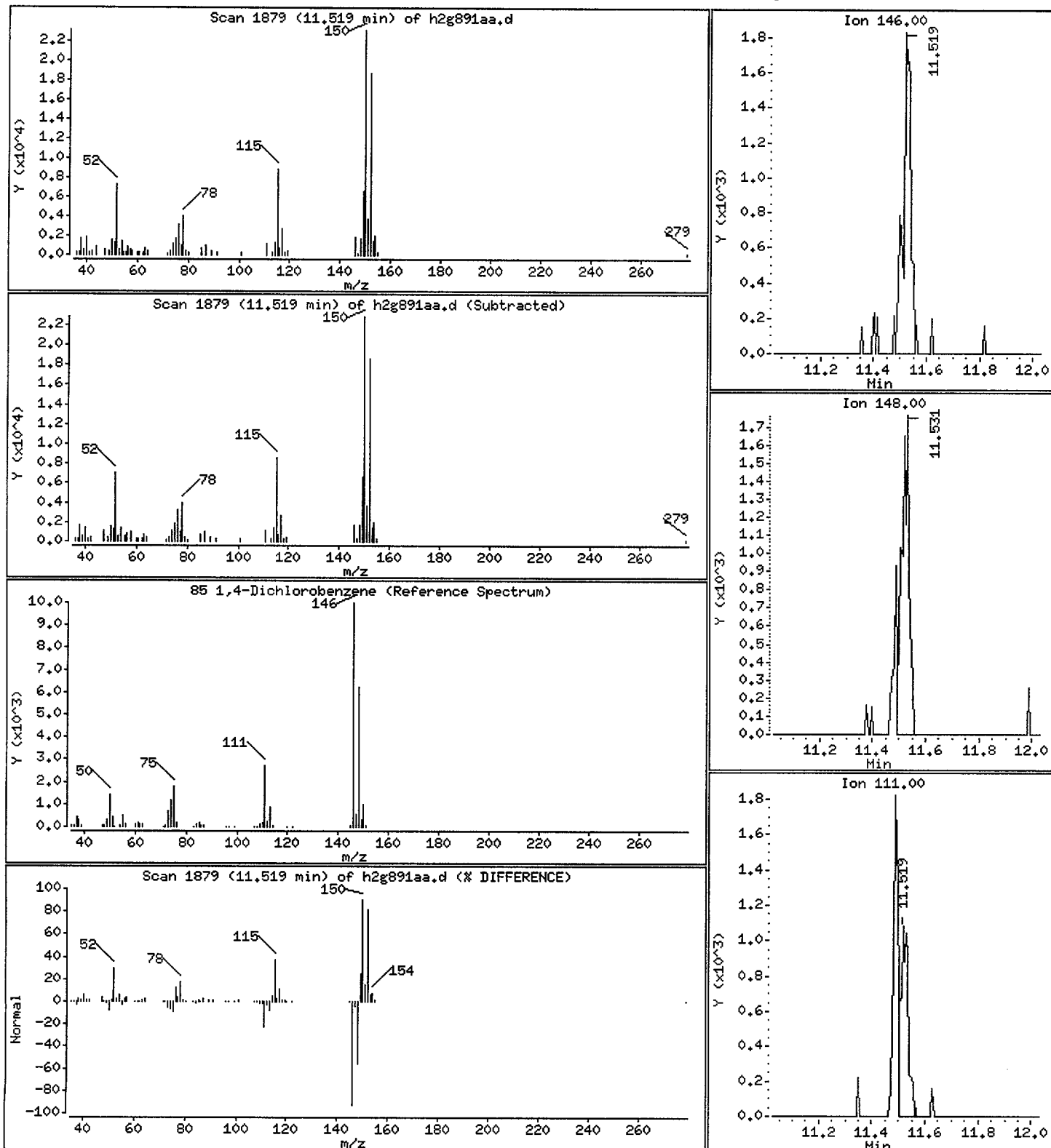
Operator: 22980

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							
9.317	318357	2.71976564	0.067994	64	NIST05.1	68218	2

VNK

CAS #: 1000309-37-0

2004.14.06

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

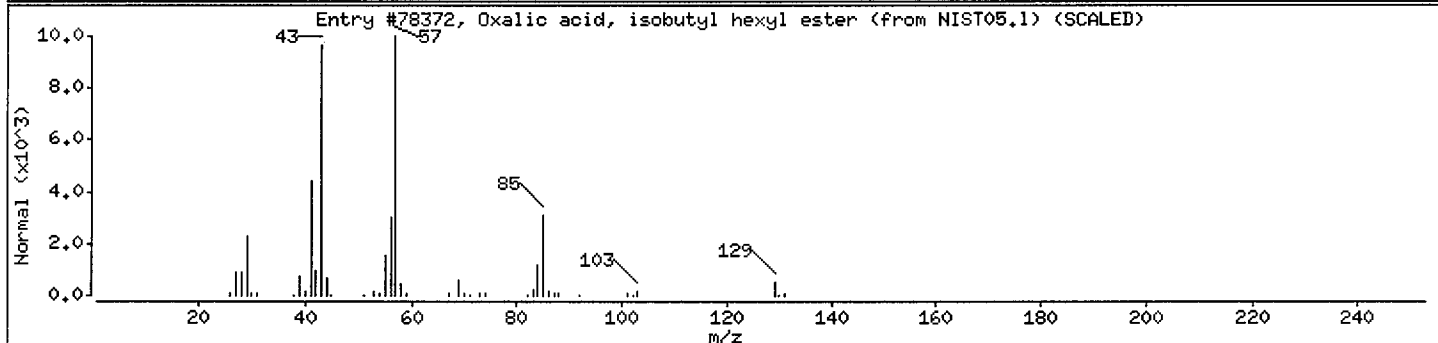
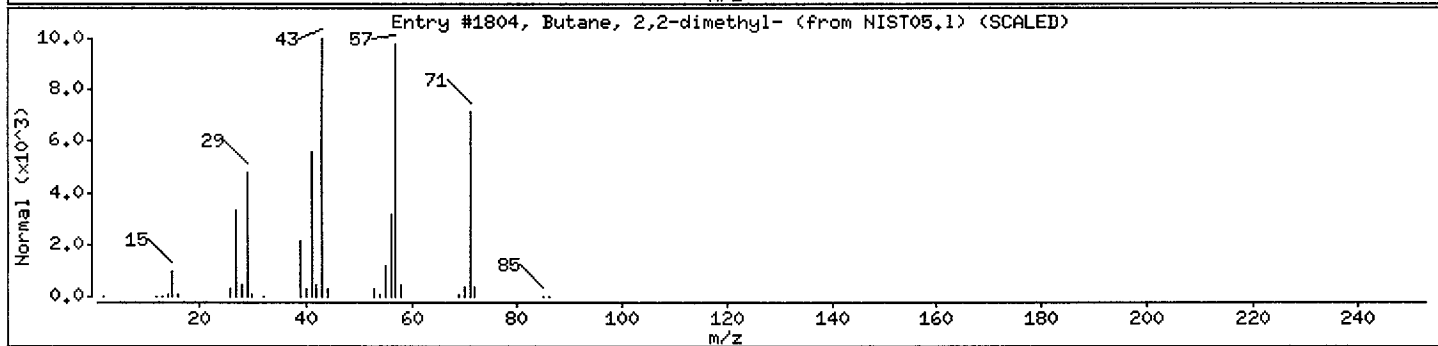
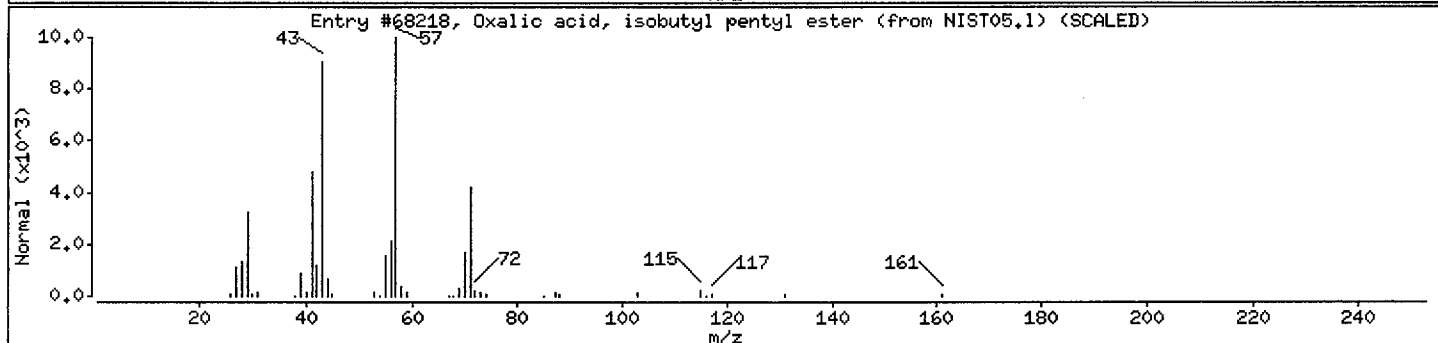
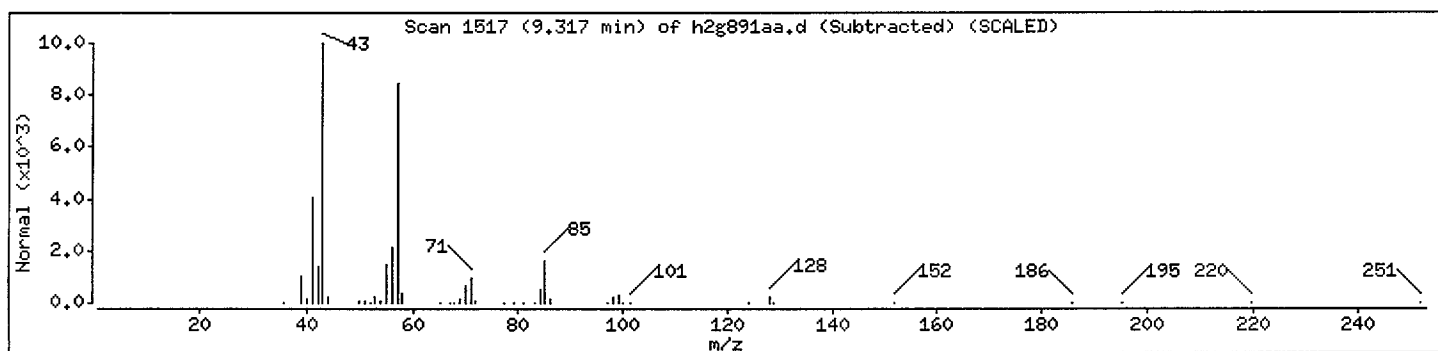
Sample Info: H2G891AA,1,0,,

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	C11H20O4	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	C12H22O4	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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	(ug/L)	(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	~~0.0024816~~		
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		

Handwritten: 07/21/06

Handwritten: 4/19/06

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

Compounds	QUANT SIG			EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS	RT					ON-COLUMN (ug/L)	FINAL (ug)
=====	=====	==		=====	=====	=====	=====	=====
44 1,2-Dichloroethane	62	4.613		4.620	(0.951)	2670	0.12759	~~0.0031899~~
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) E
64 Ethylbenzene (ccc)	106	7.837		7.716	(1.033)	10602	0.21359	~~0.0053387~~
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

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-2912-R1-VOST PAIR

Level: LOW

Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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		SAMPLE	%DIFF
		LOWER	UPPER		
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

Client SDG: H6D030169

Sample Matrix: GAS

Fraction: VOA

Lab Smp Id: H2G9A1AA

Client Smp ID: G-2912-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	0.18223	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

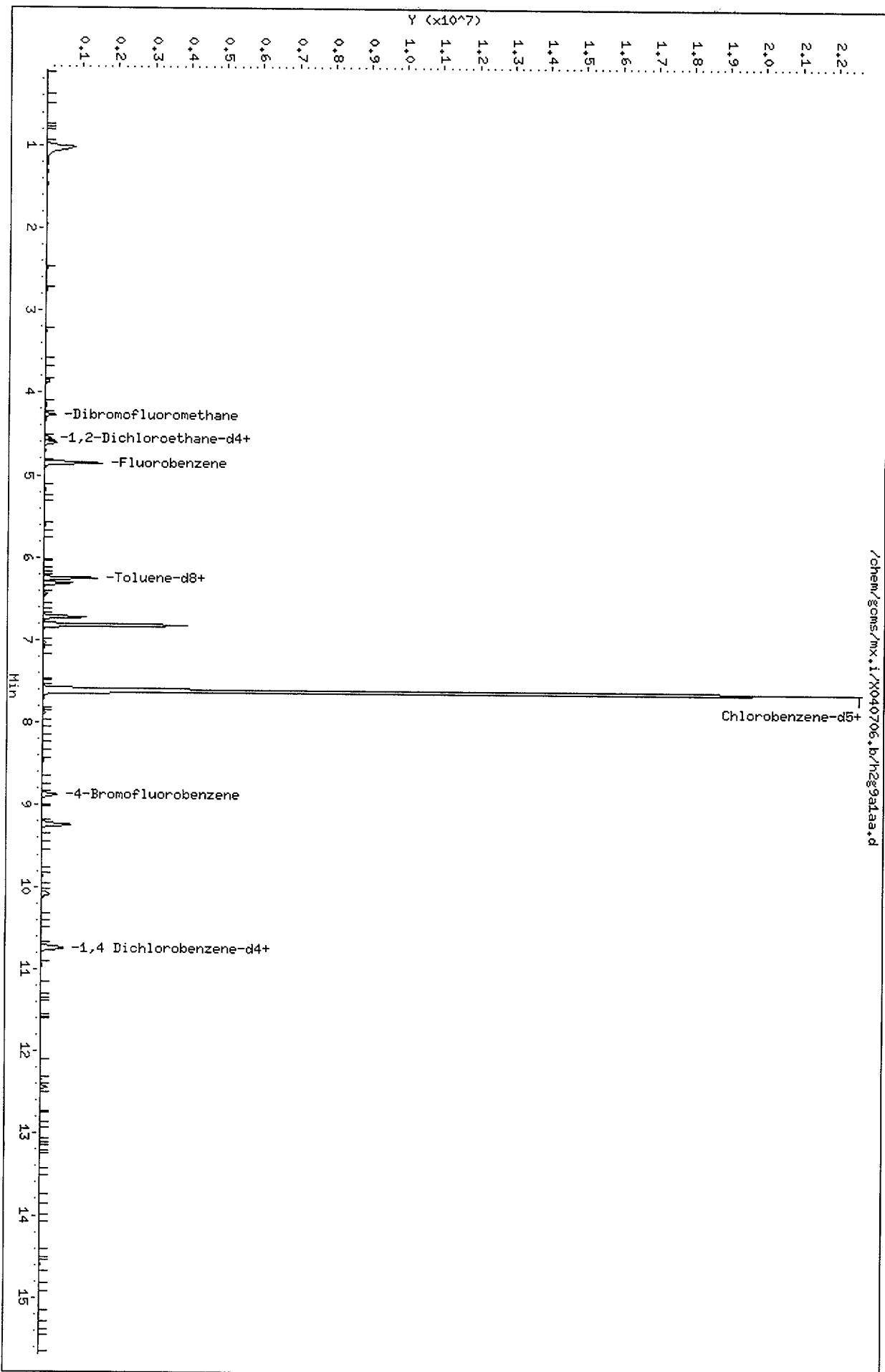
Sample Info: H2C9A1AA,1,0,,,

Column phase: JMW 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,,,

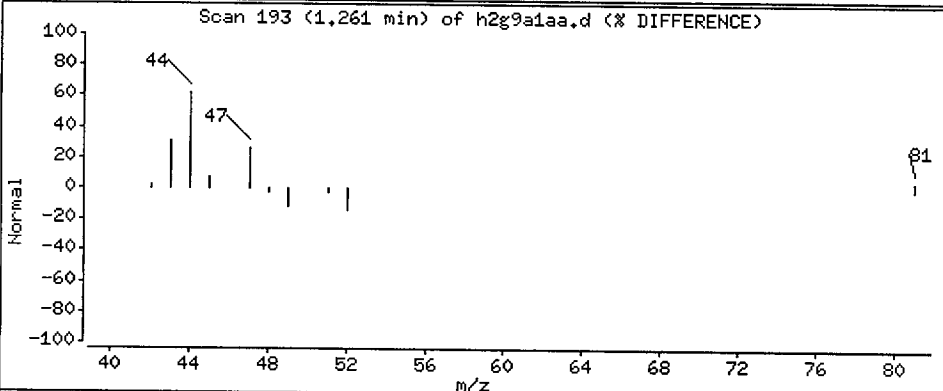
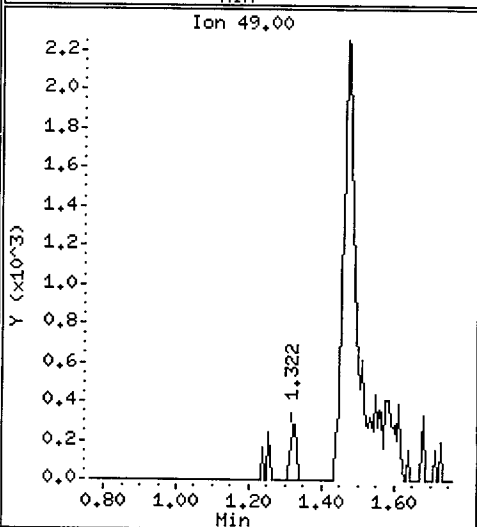
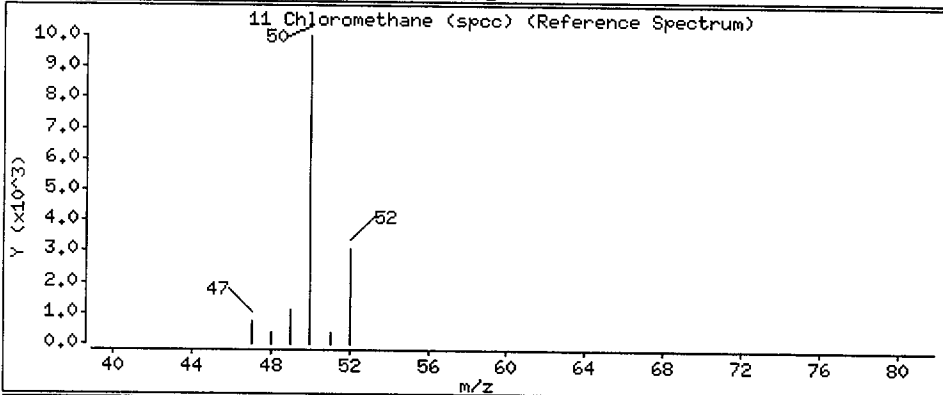
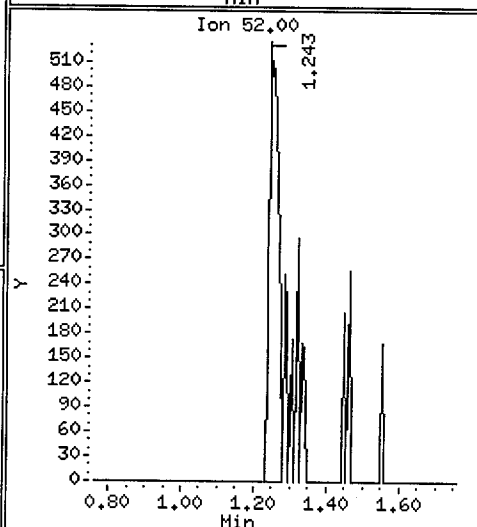
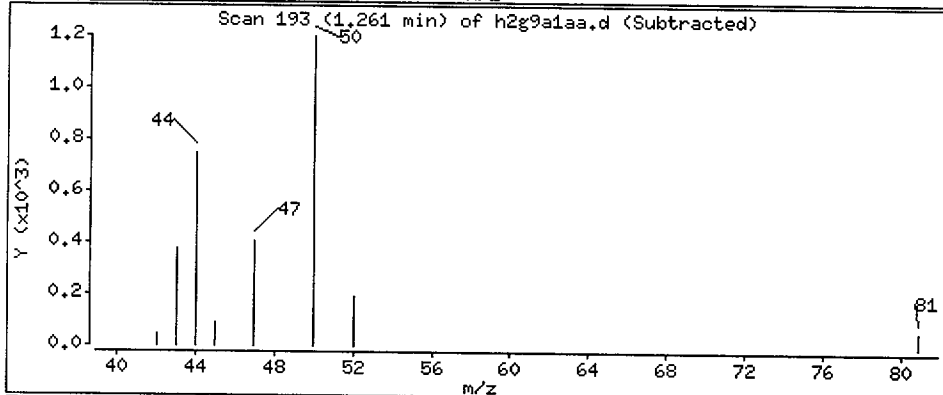
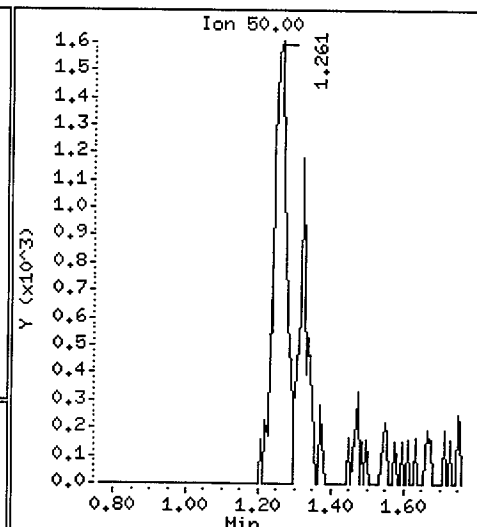
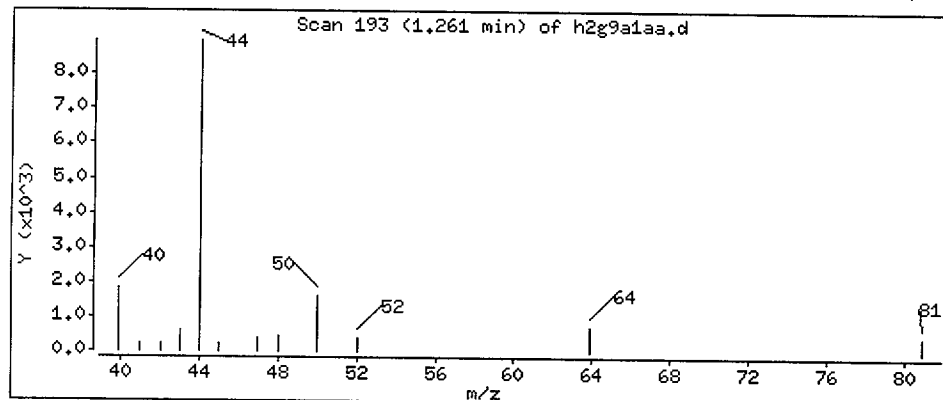
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

11 Chloromethane (spoc)

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,,,

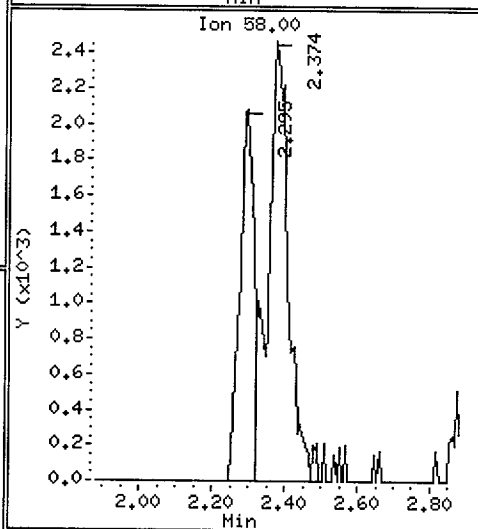
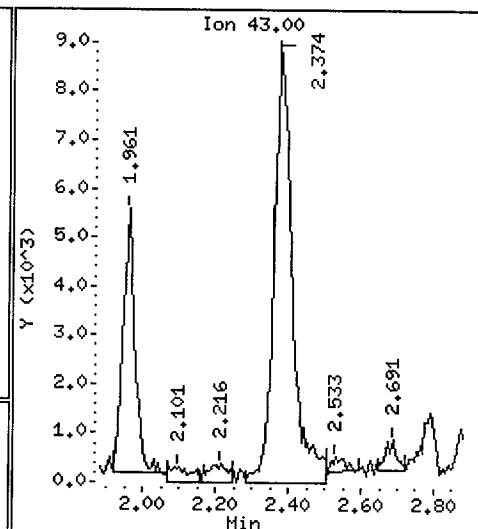
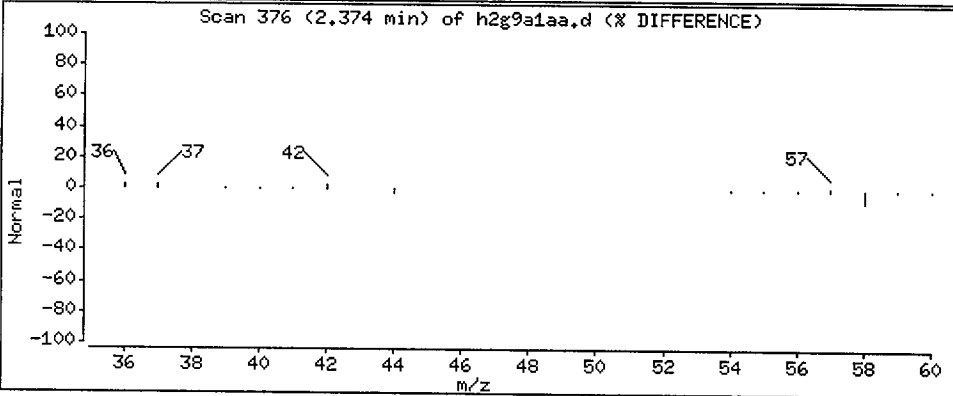
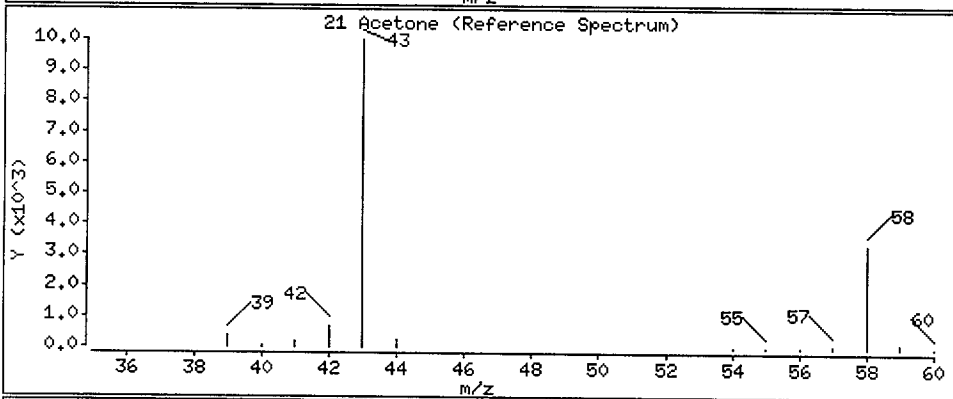
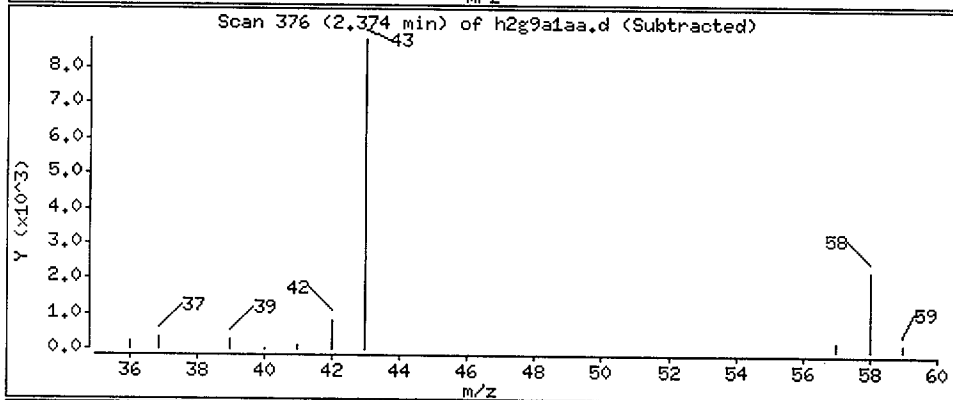
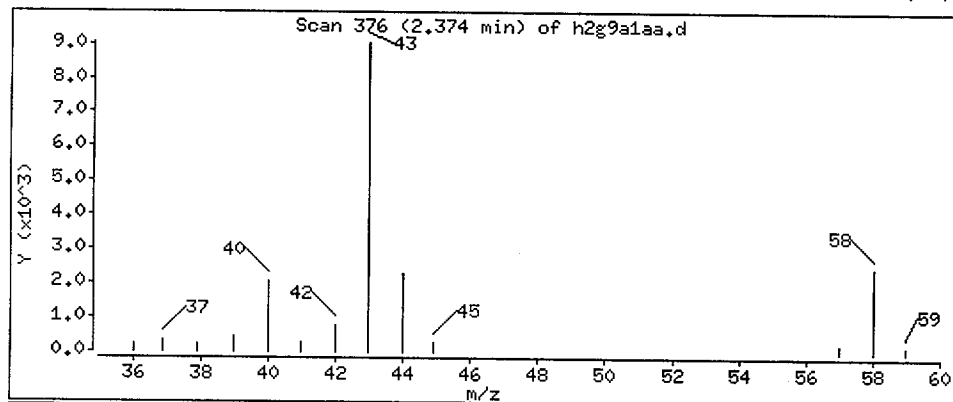
Operator: 22980

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,,,

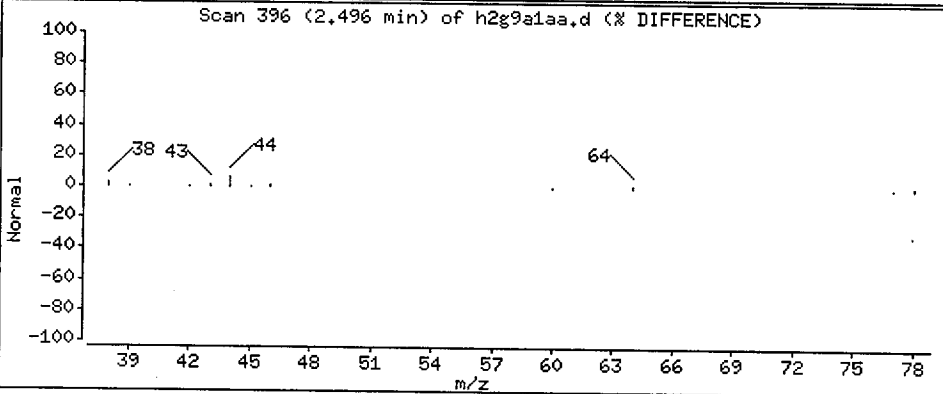
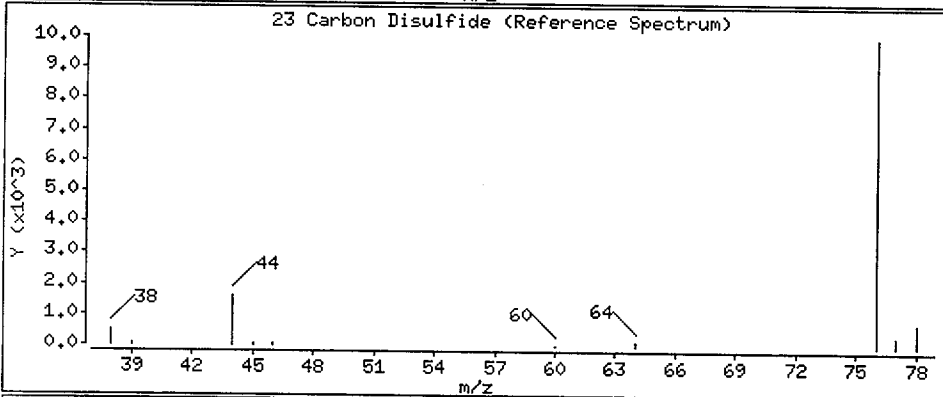
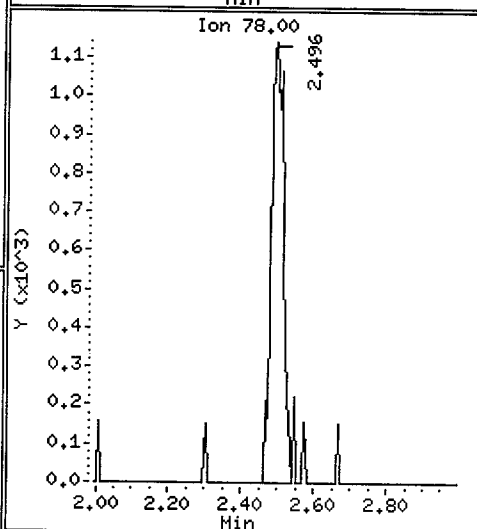
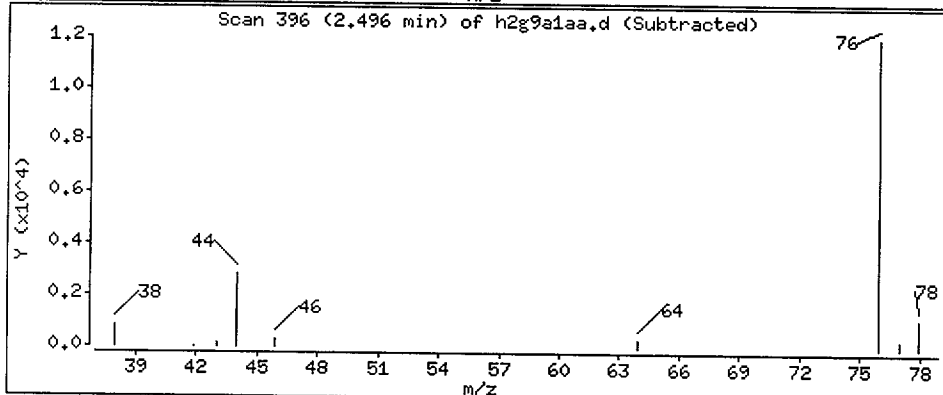
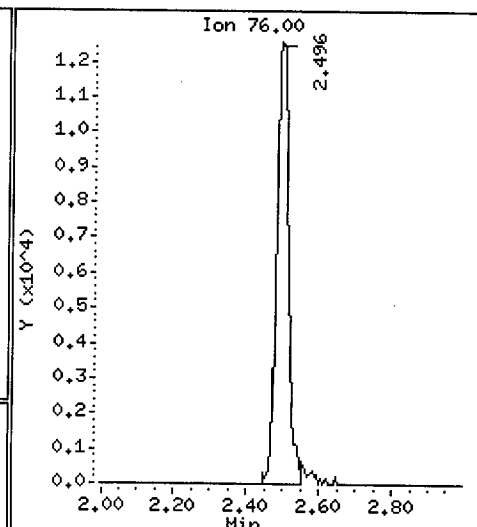
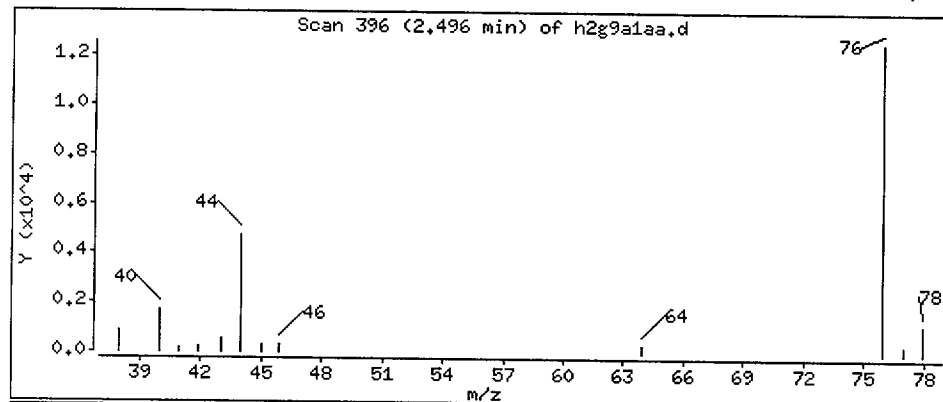
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9A1AA,1,0,,

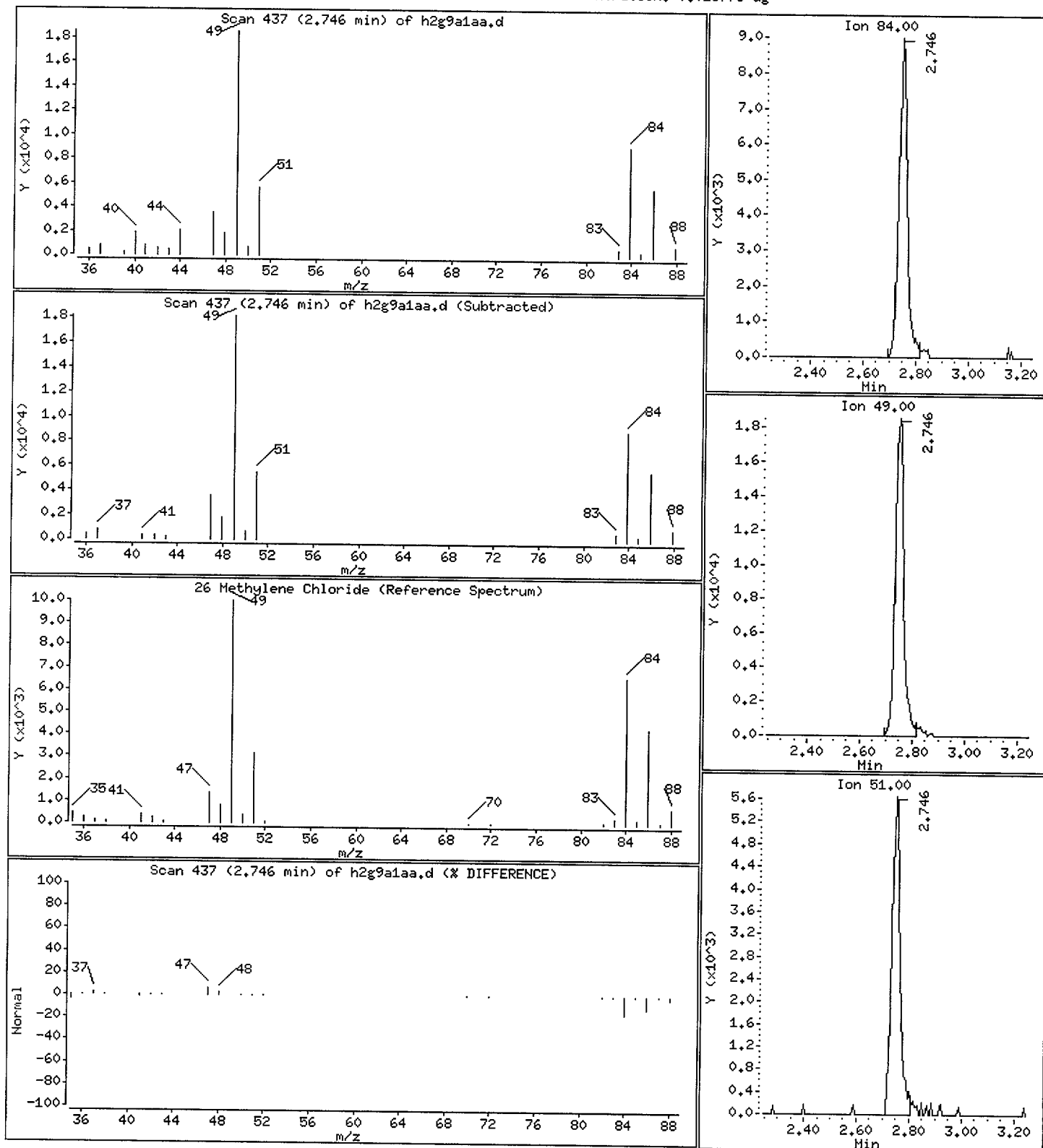
Operator: 22980

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,,,

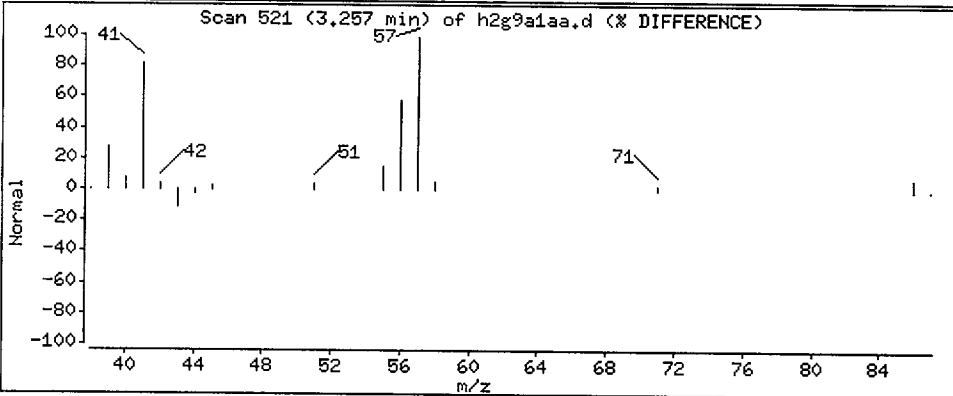
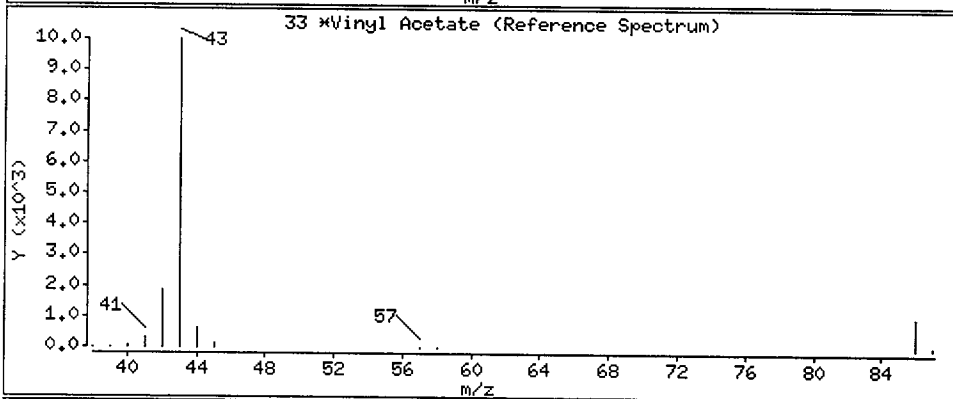
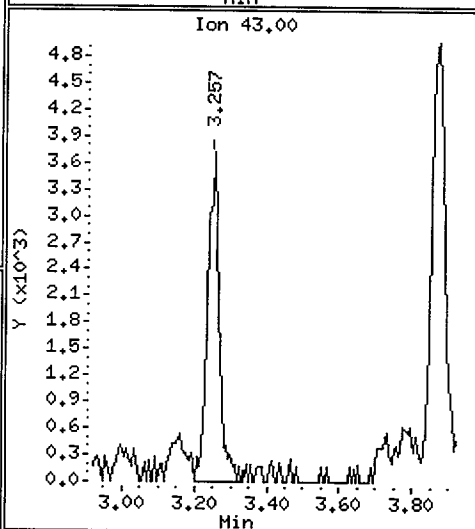
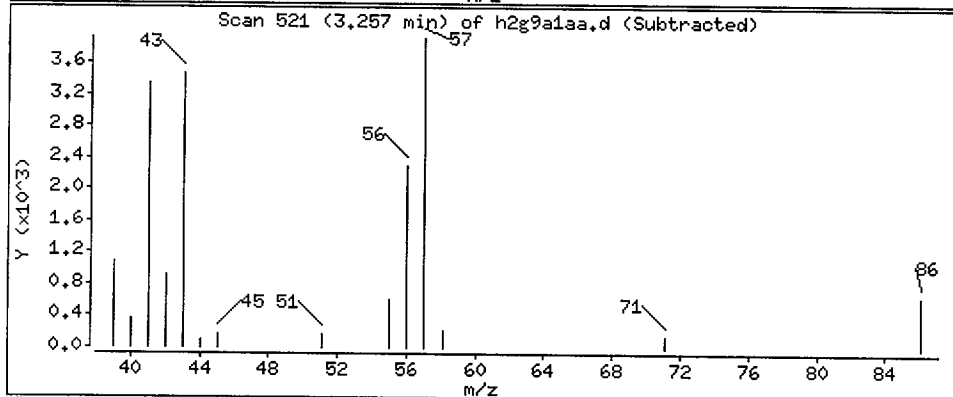
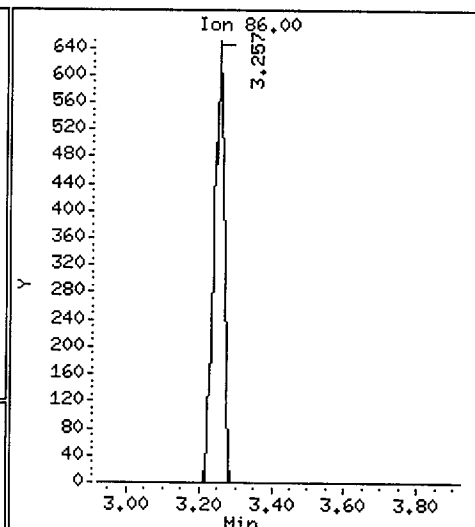
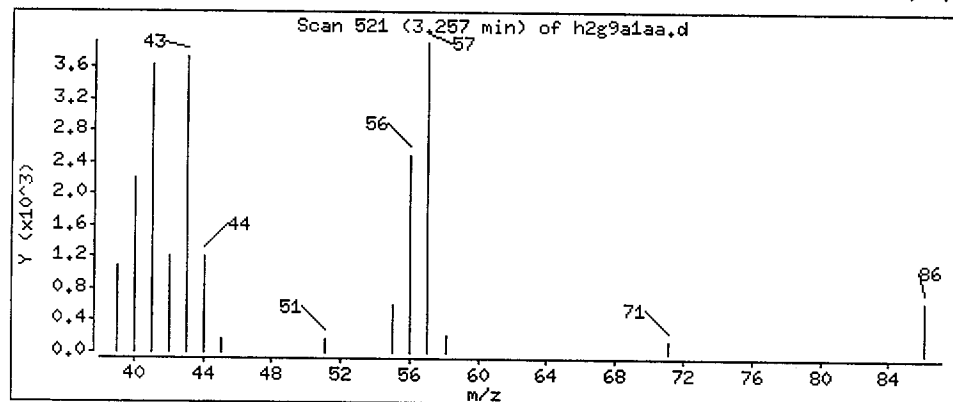
Operator: 22980

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: C-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

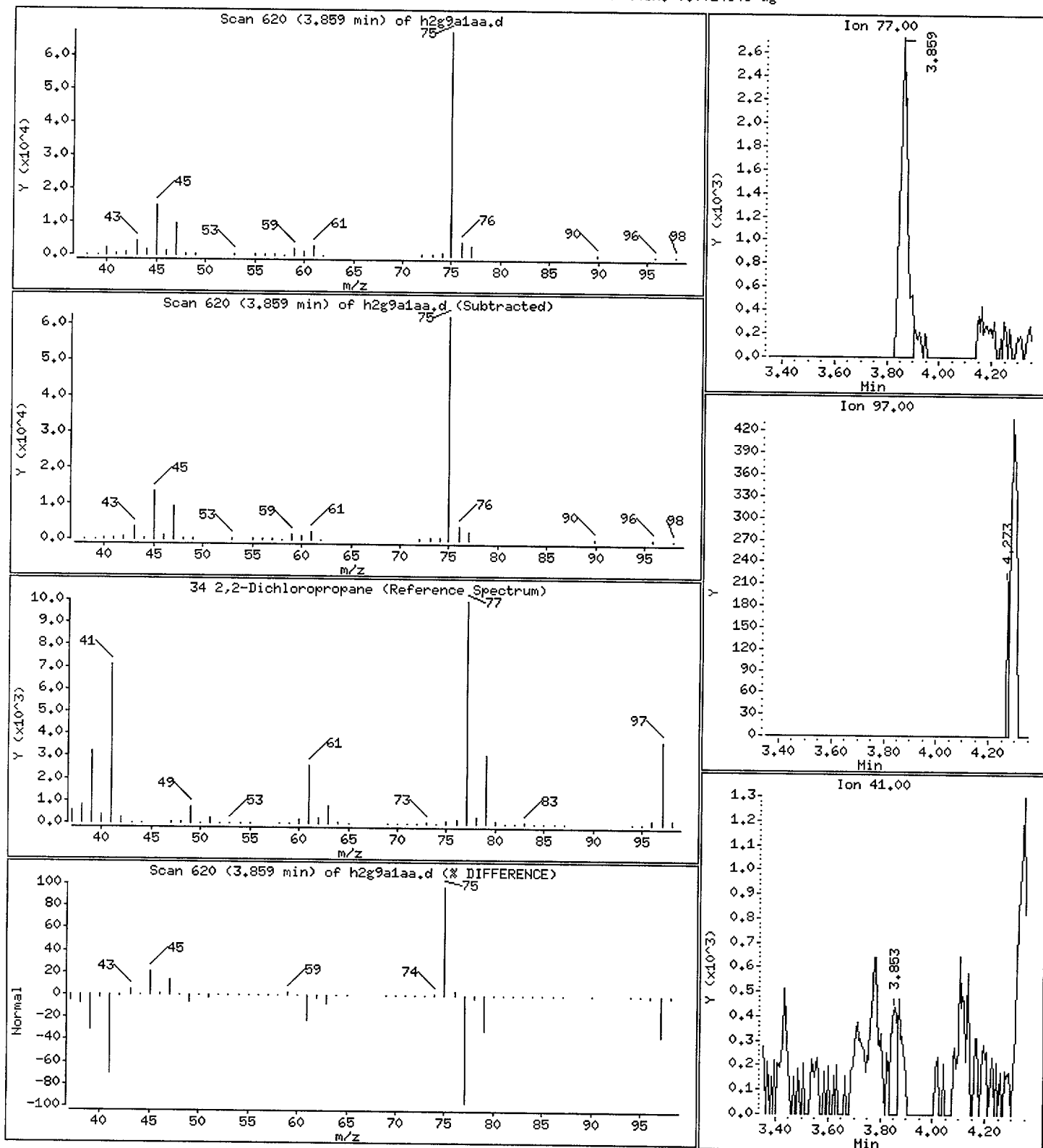
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA.1.0,,,

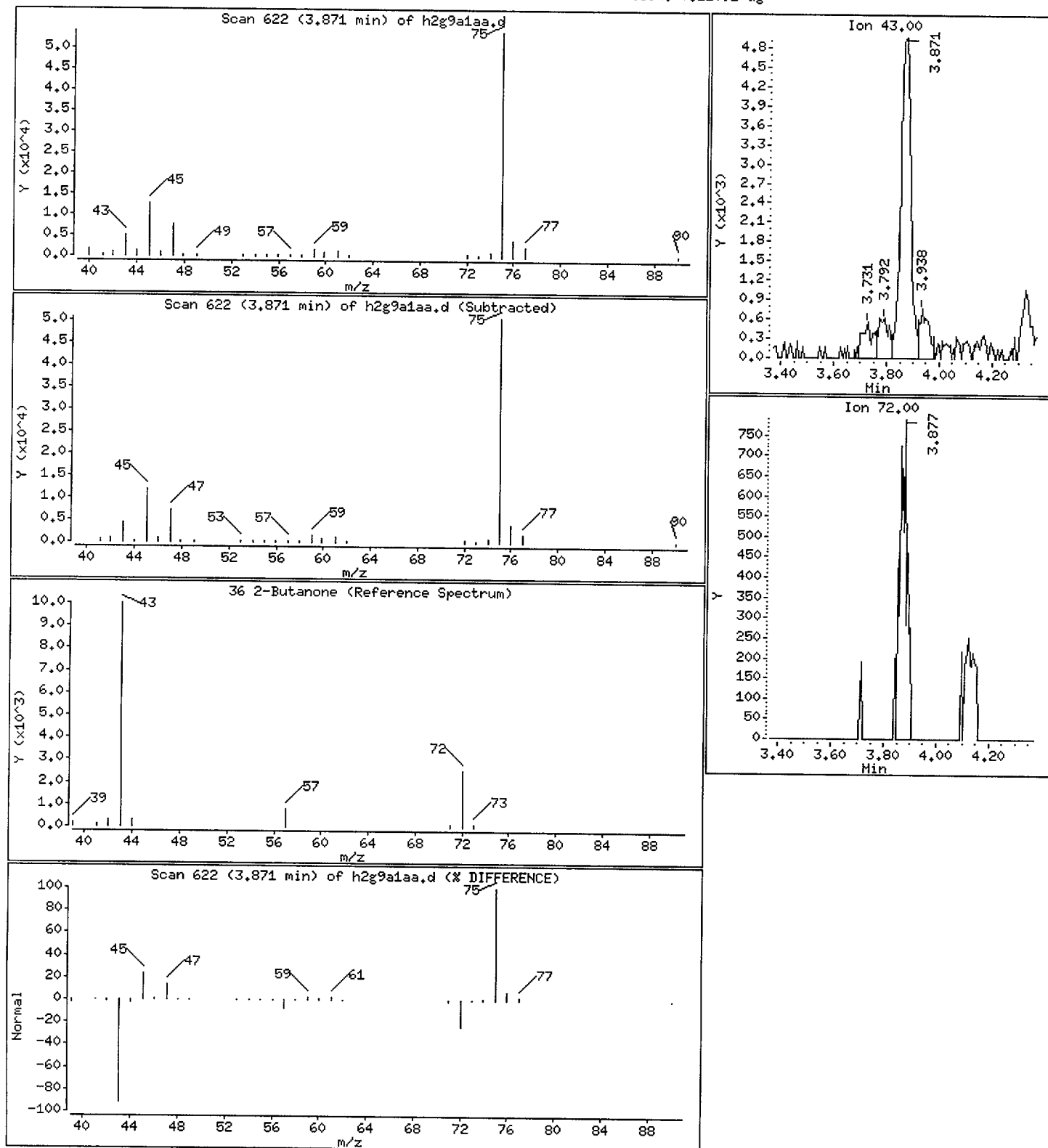
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Concentration: 0.12091 ug

36 2-Butanone



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,,,

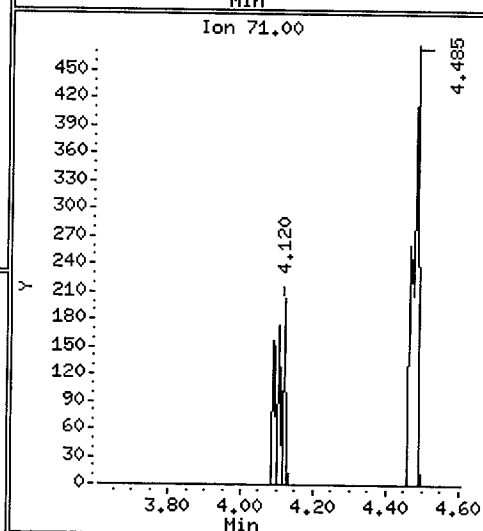
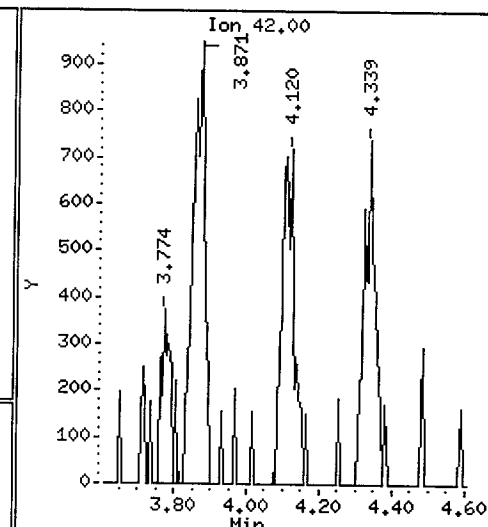
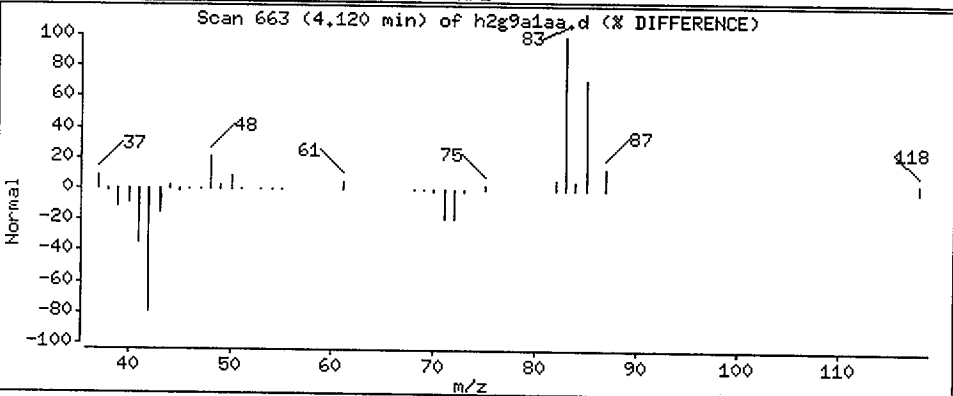
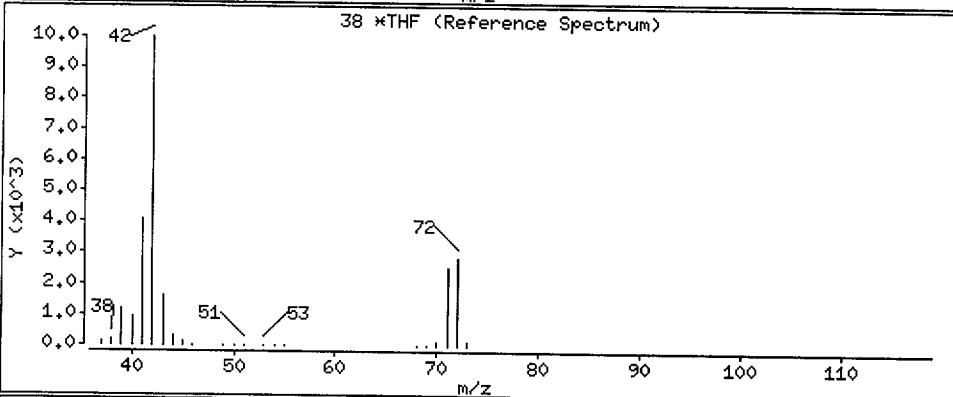
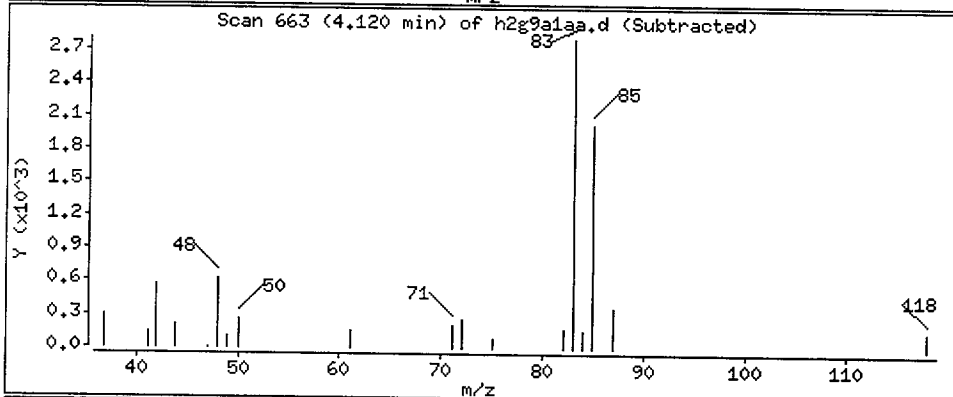
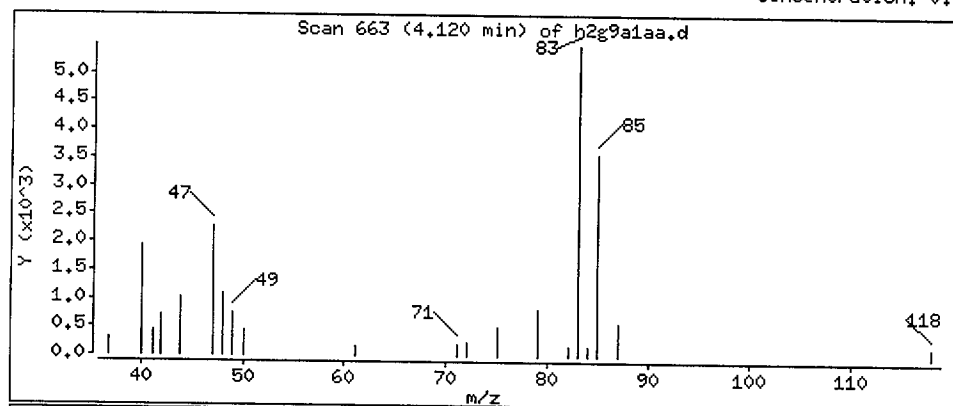
Operator: 22980

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,,,

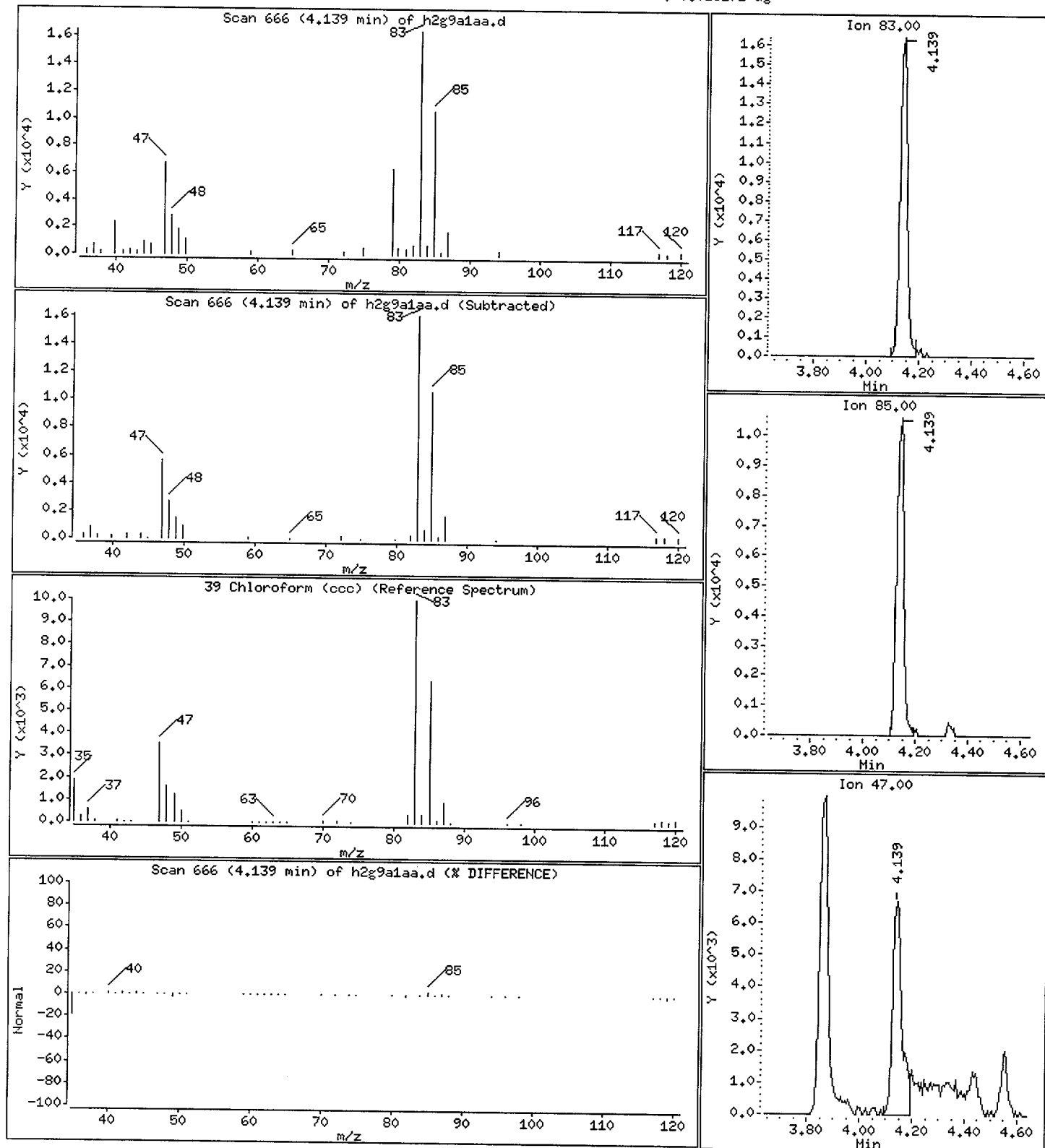
Operator: 22980

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,,,

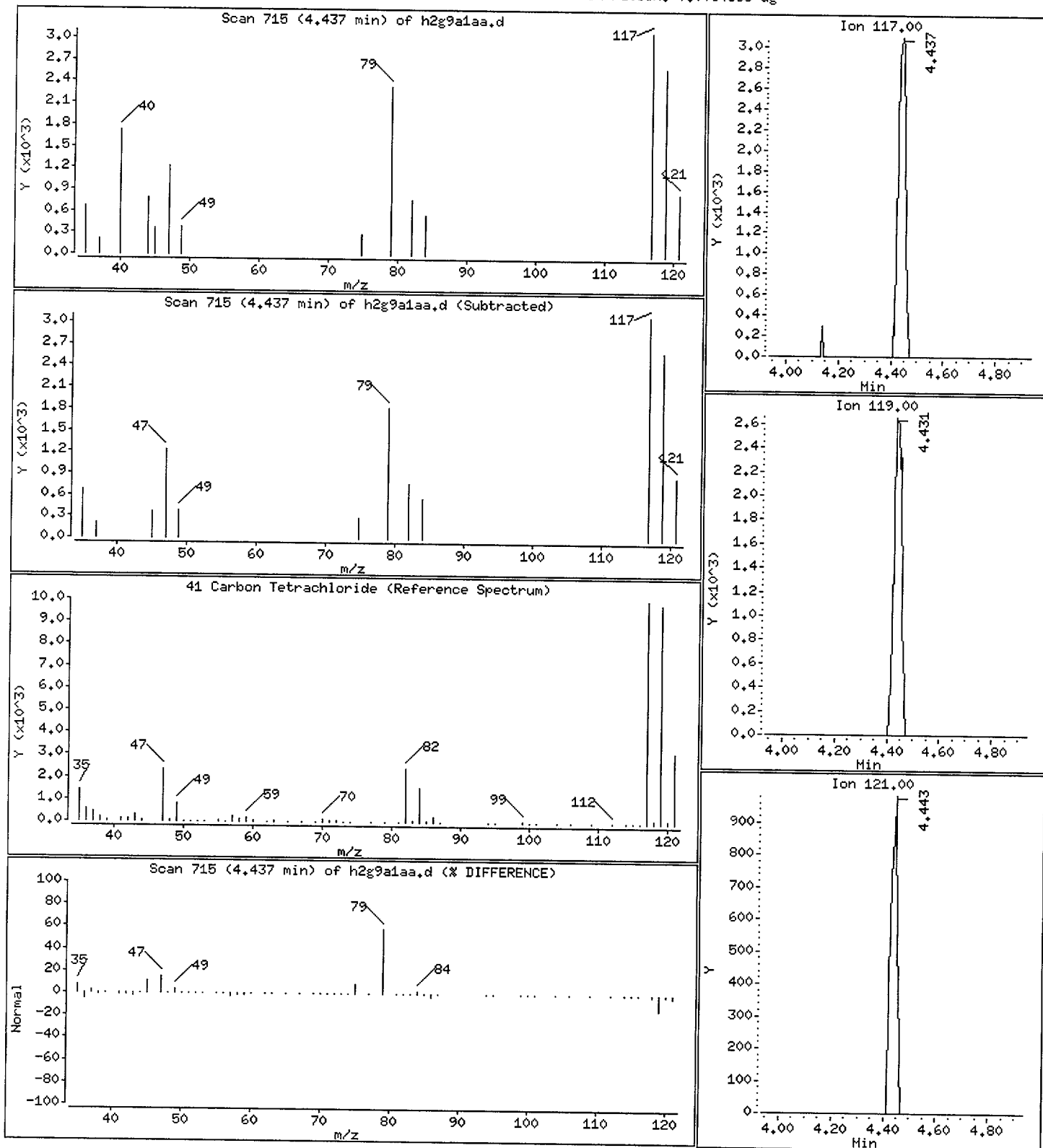
Operator: 22980

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,,,

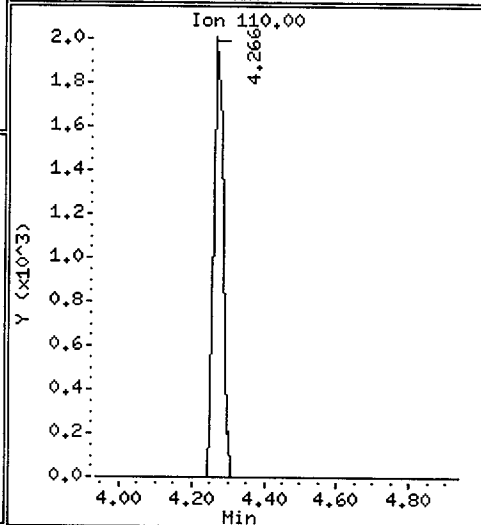
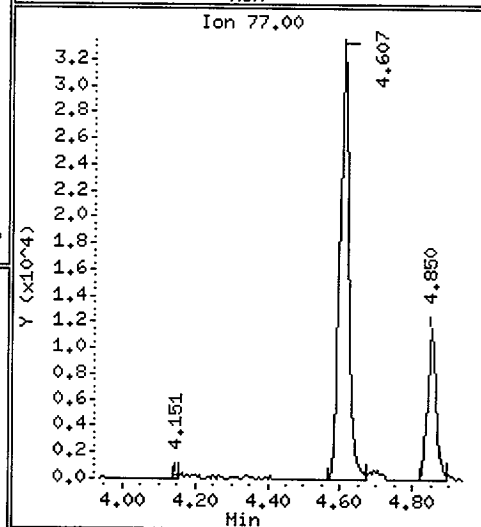
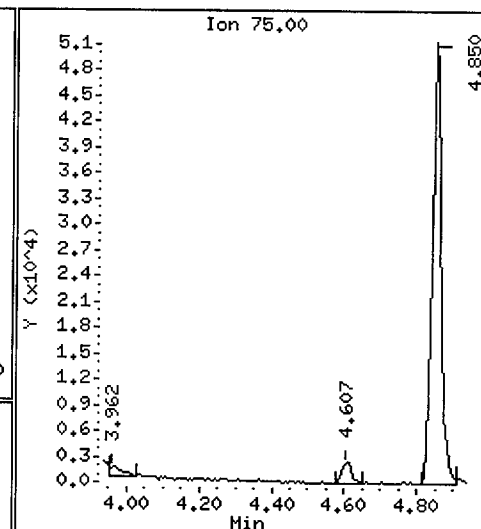
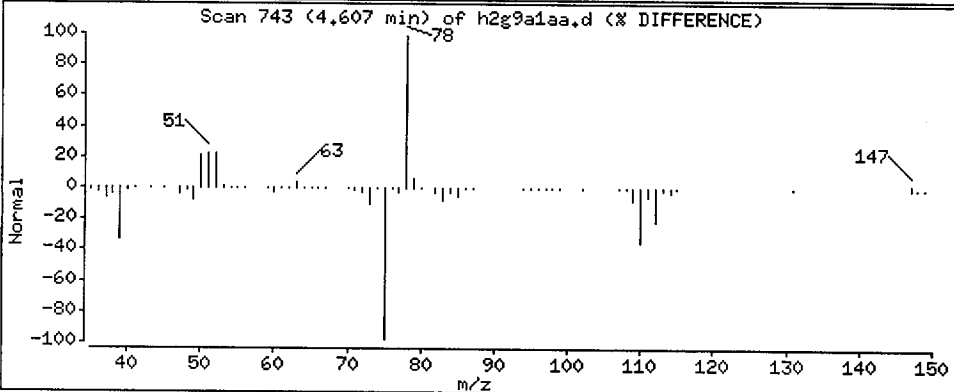
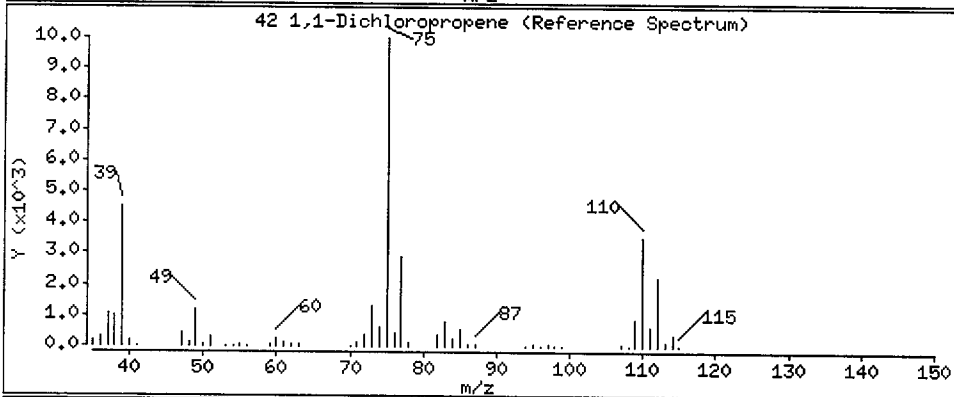
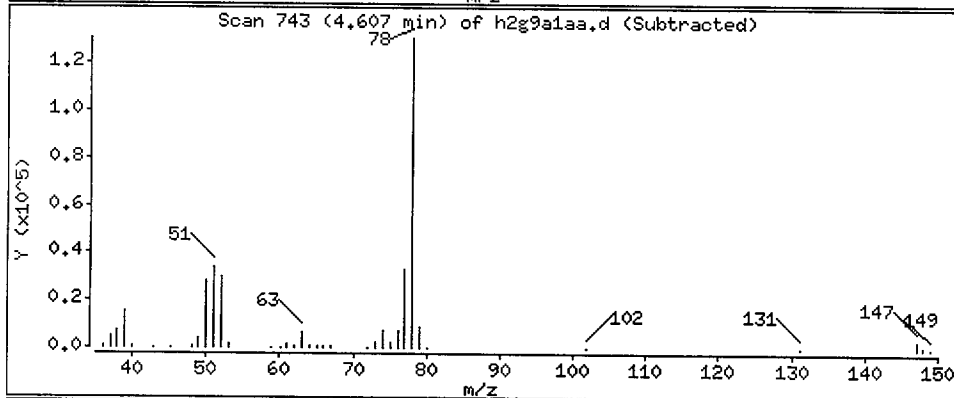
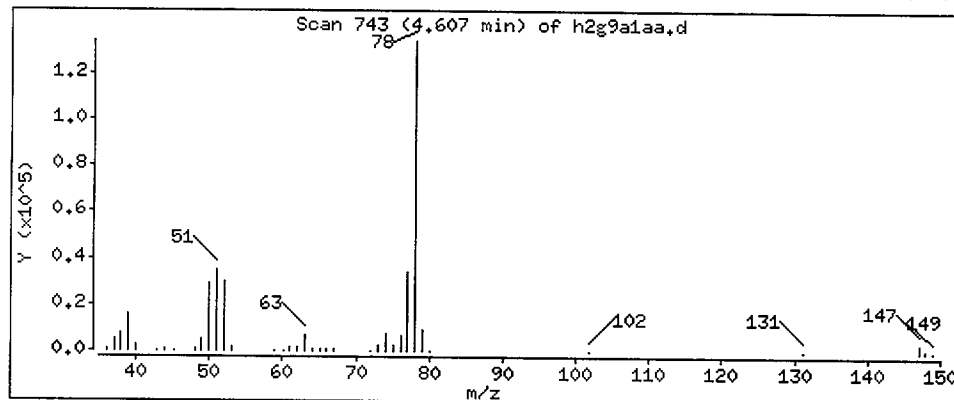
Operator: 22980

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: H2C9A1AA,1,0,,,

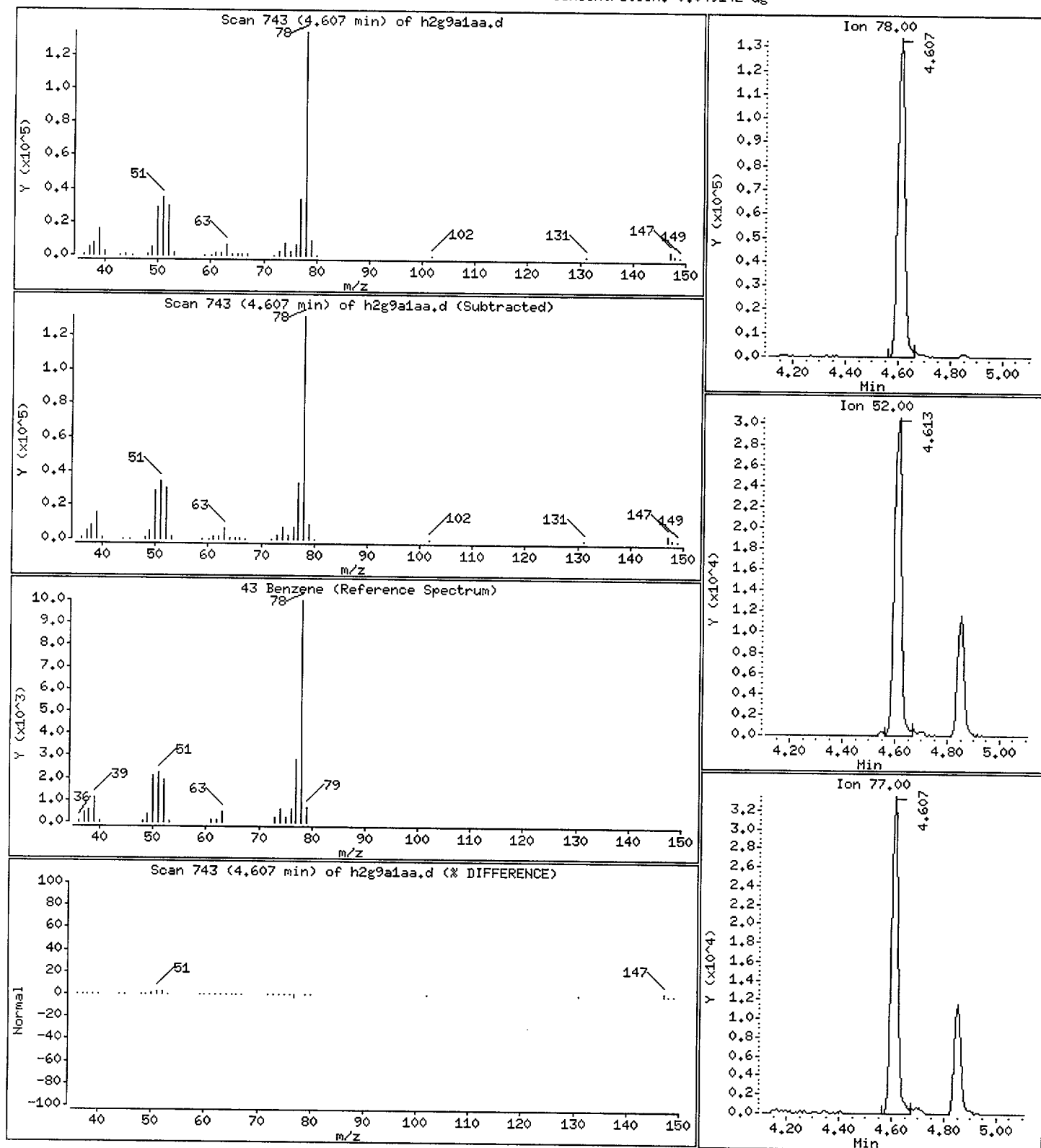
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Concentration: 0.049142 ug

43 Benzene



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

Date : 07-APR-2006 12:32

Client ID: G-2912-R1-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9A1AA,1,0,,

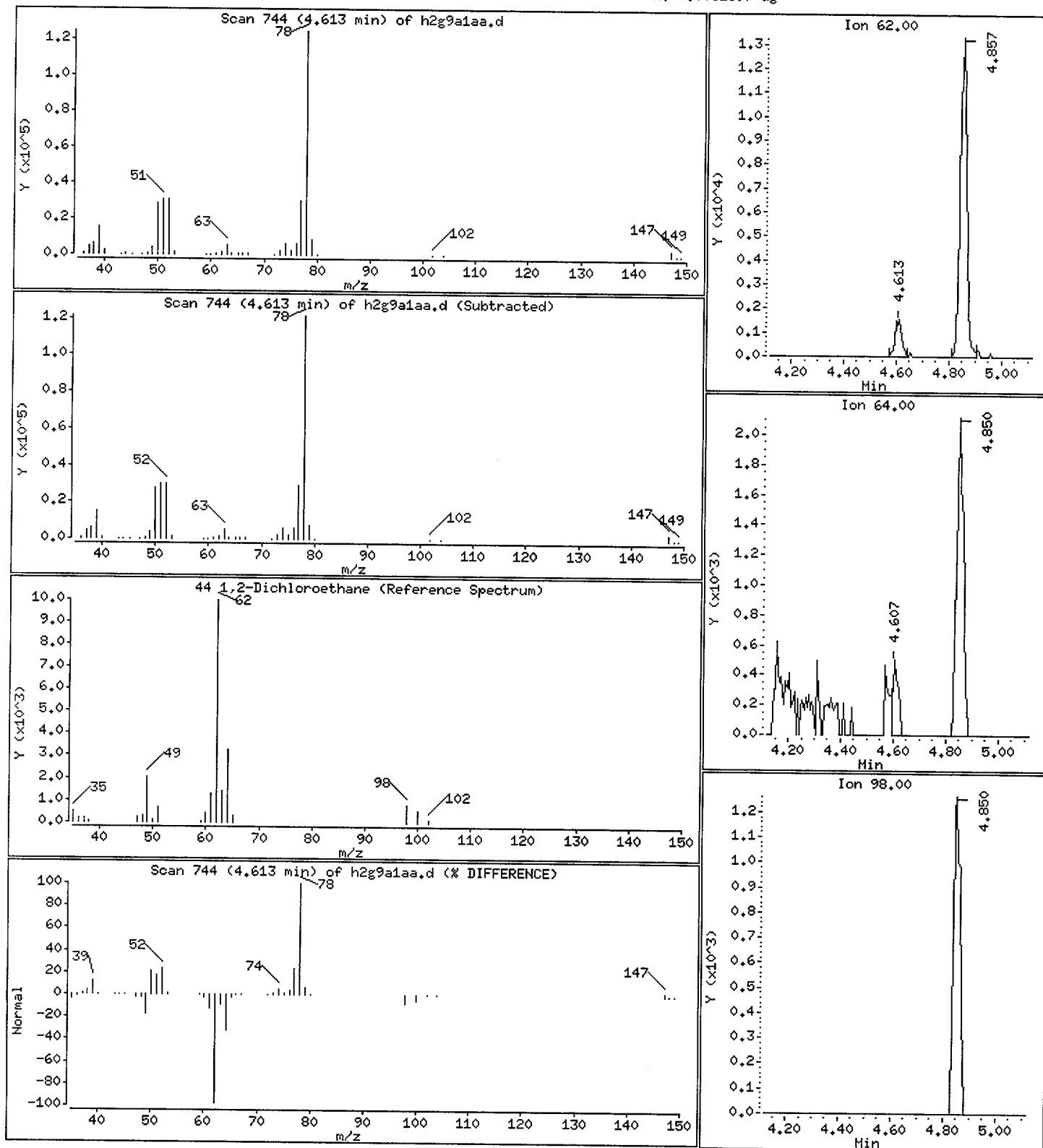
Operator: 22980

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,,,

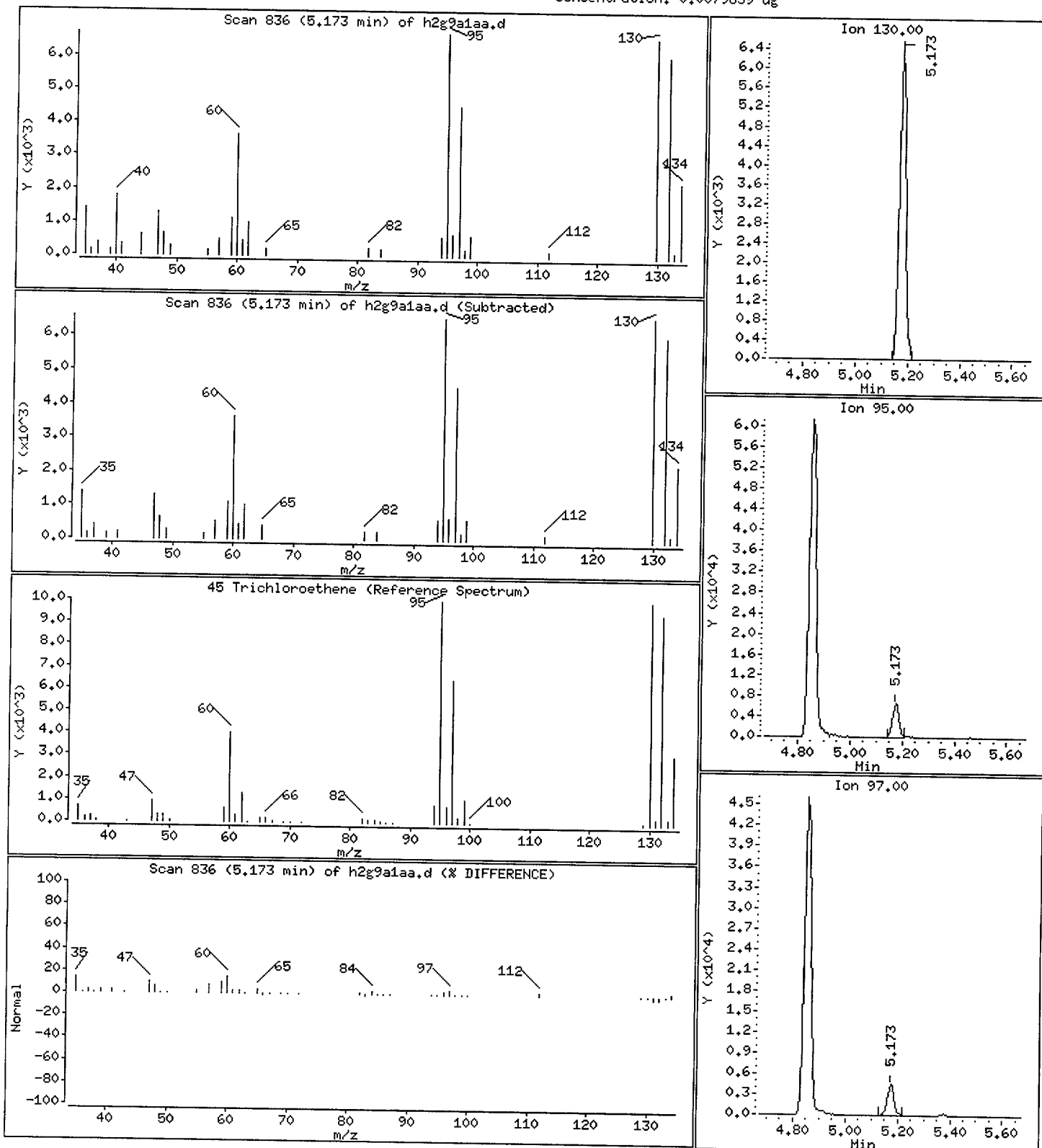
Operator: 22980

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,,,

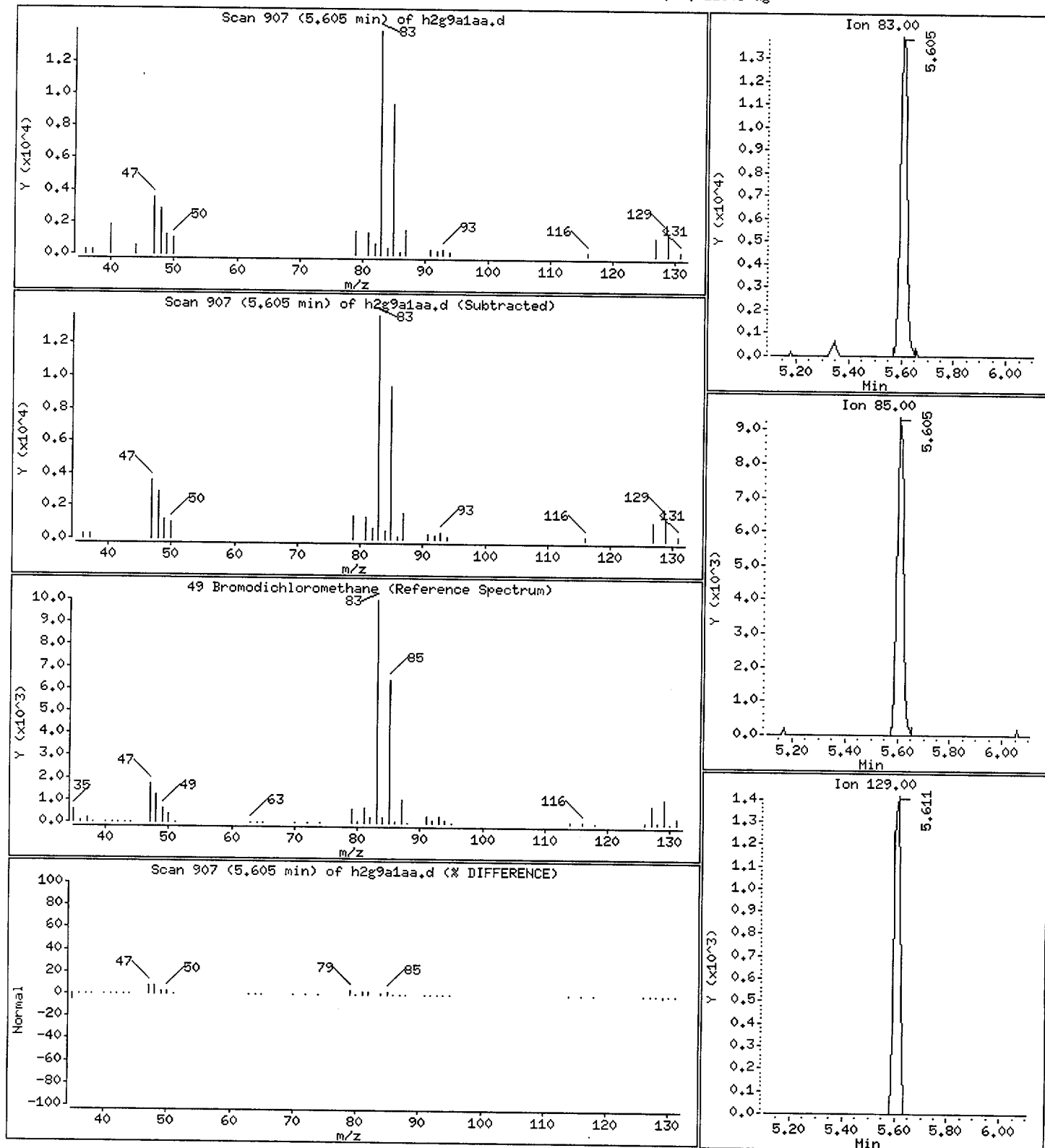
Operator: 22980

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,,,

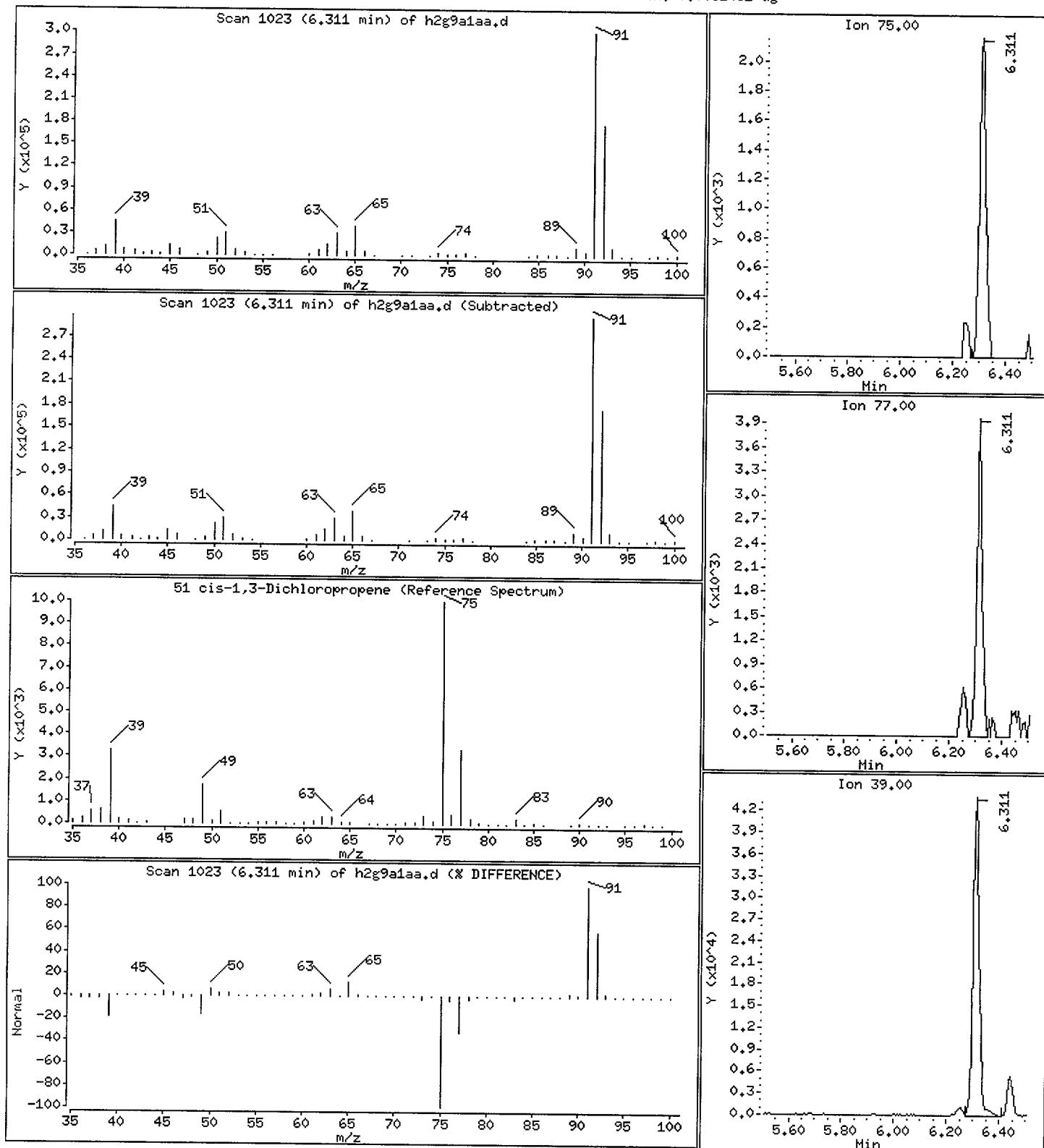
Operator: 22980

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: C-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

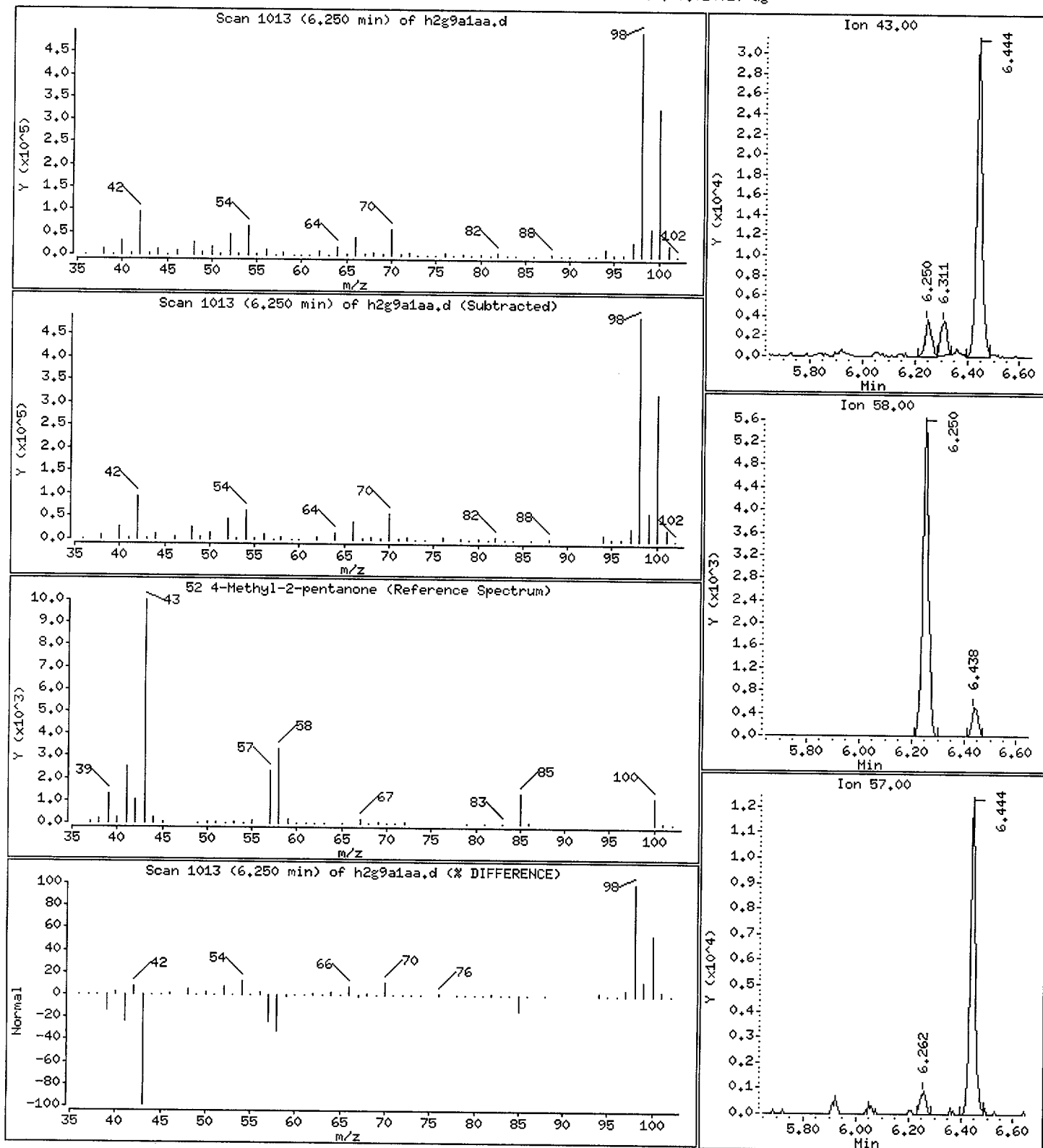
Operator: 22980

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,,,

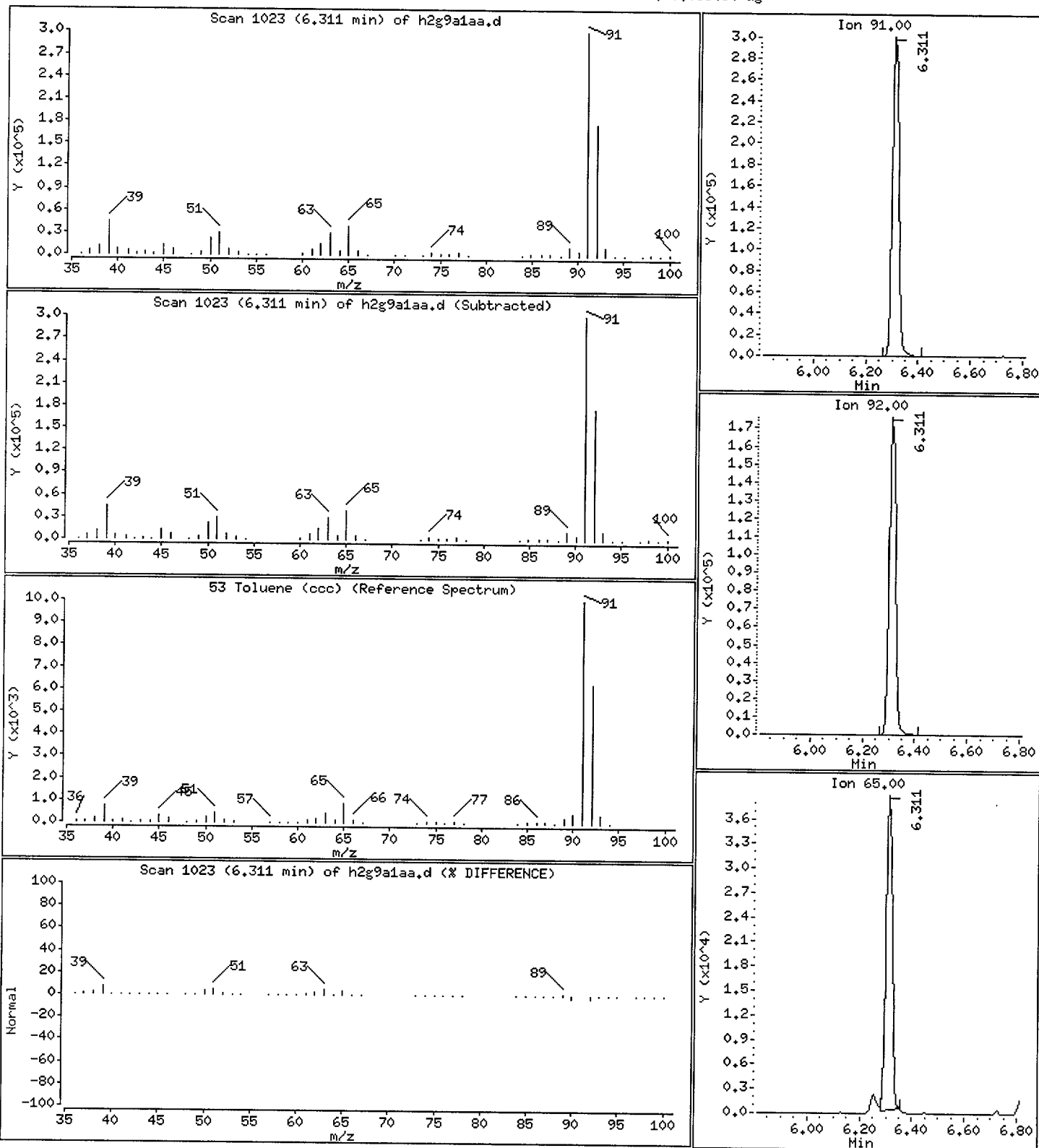
Operator: 22980

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: H2C9A1AA,1,0,,,

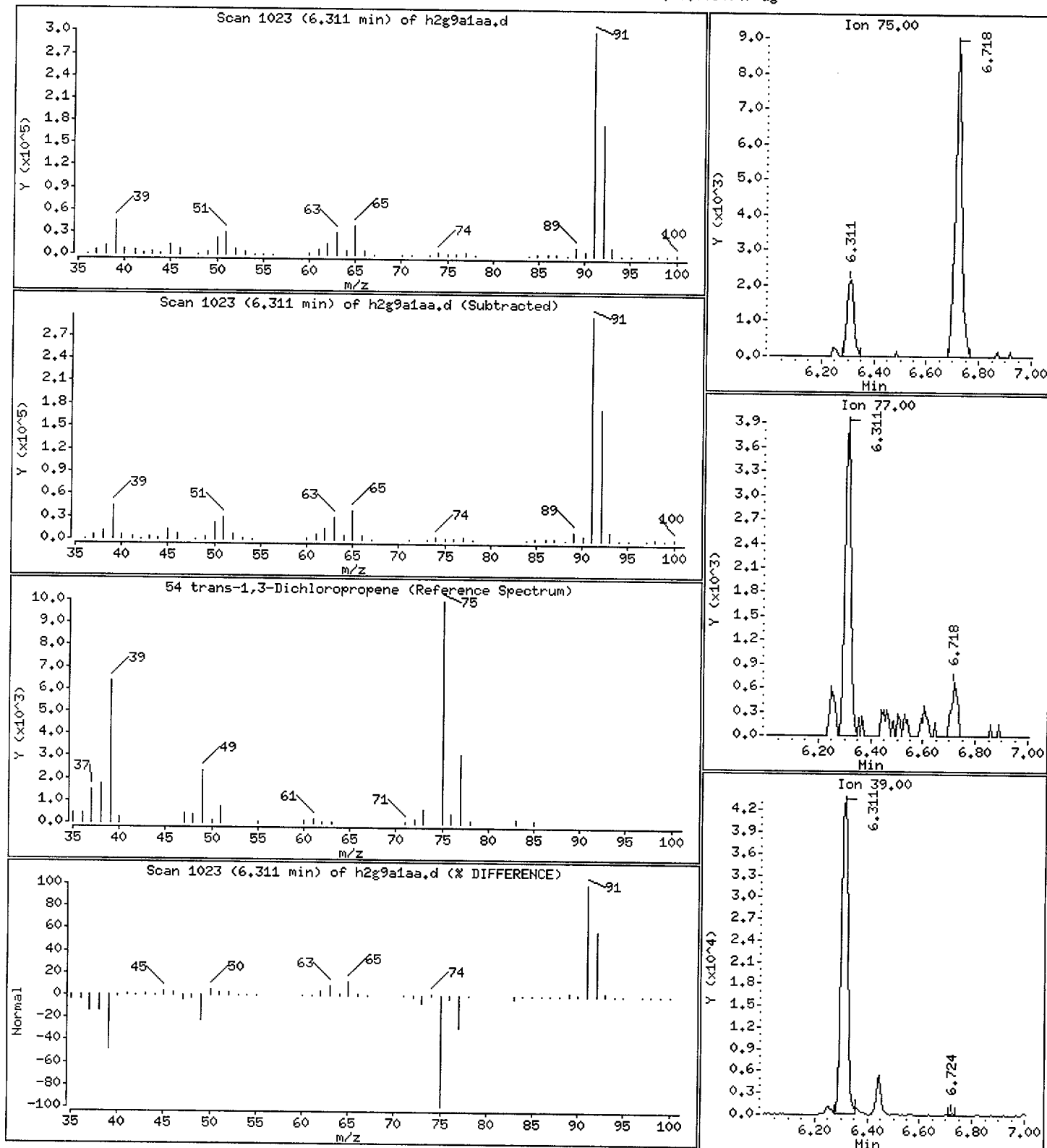
Operator: 22980

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,,,

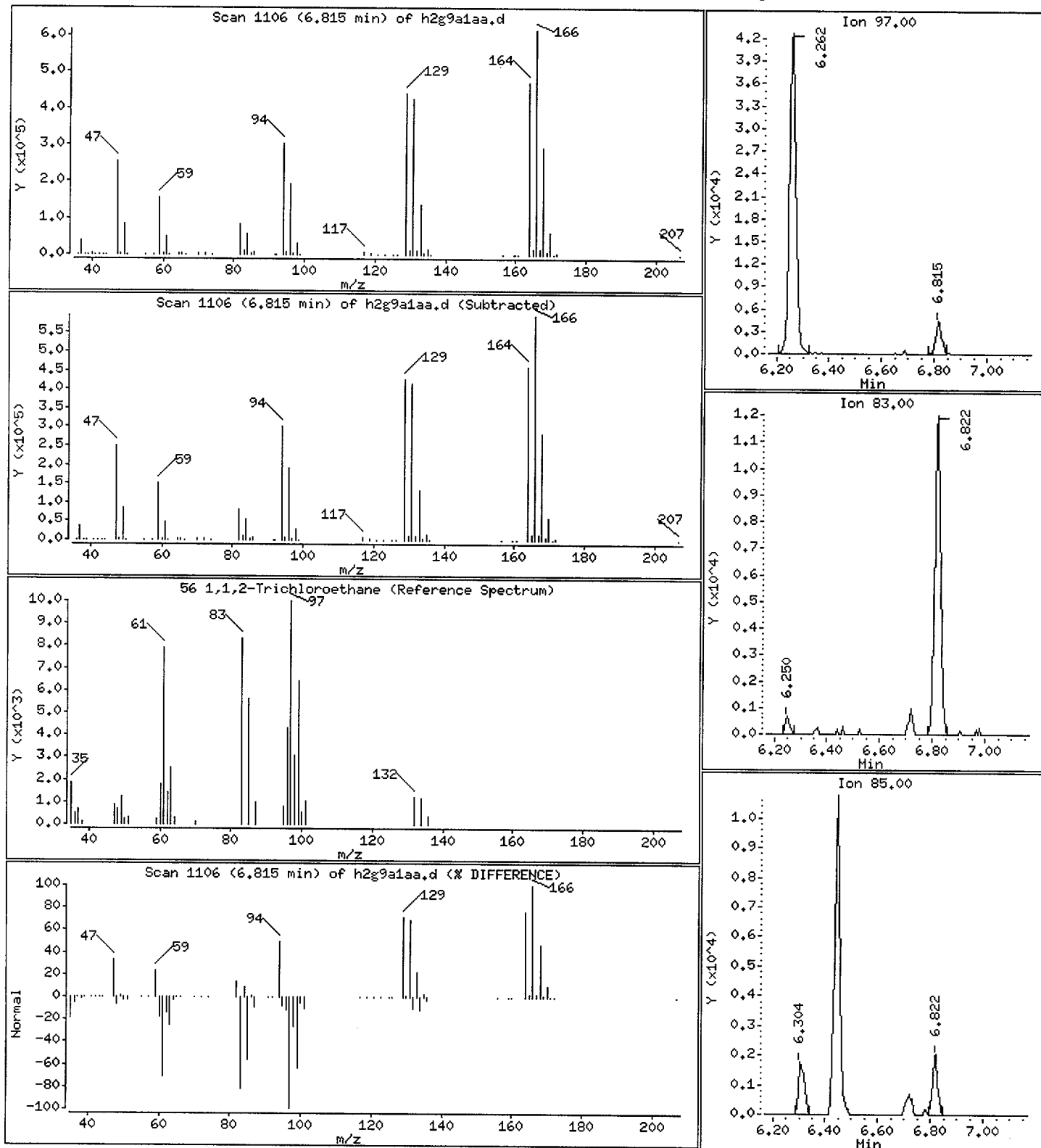
Operator: 22980

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: H2C9A1AA,1,0,,,

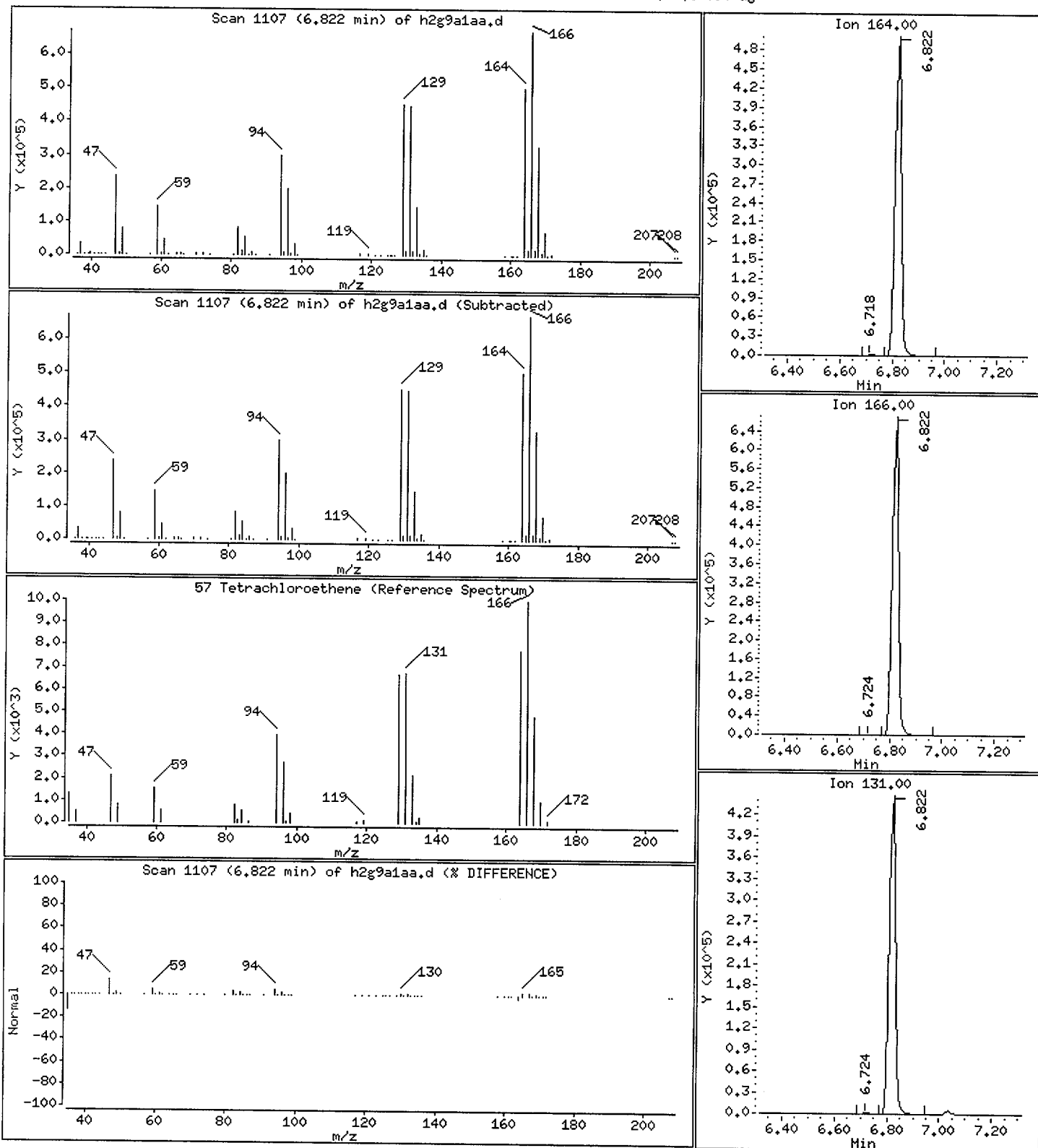
Operator: 22980

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,,,

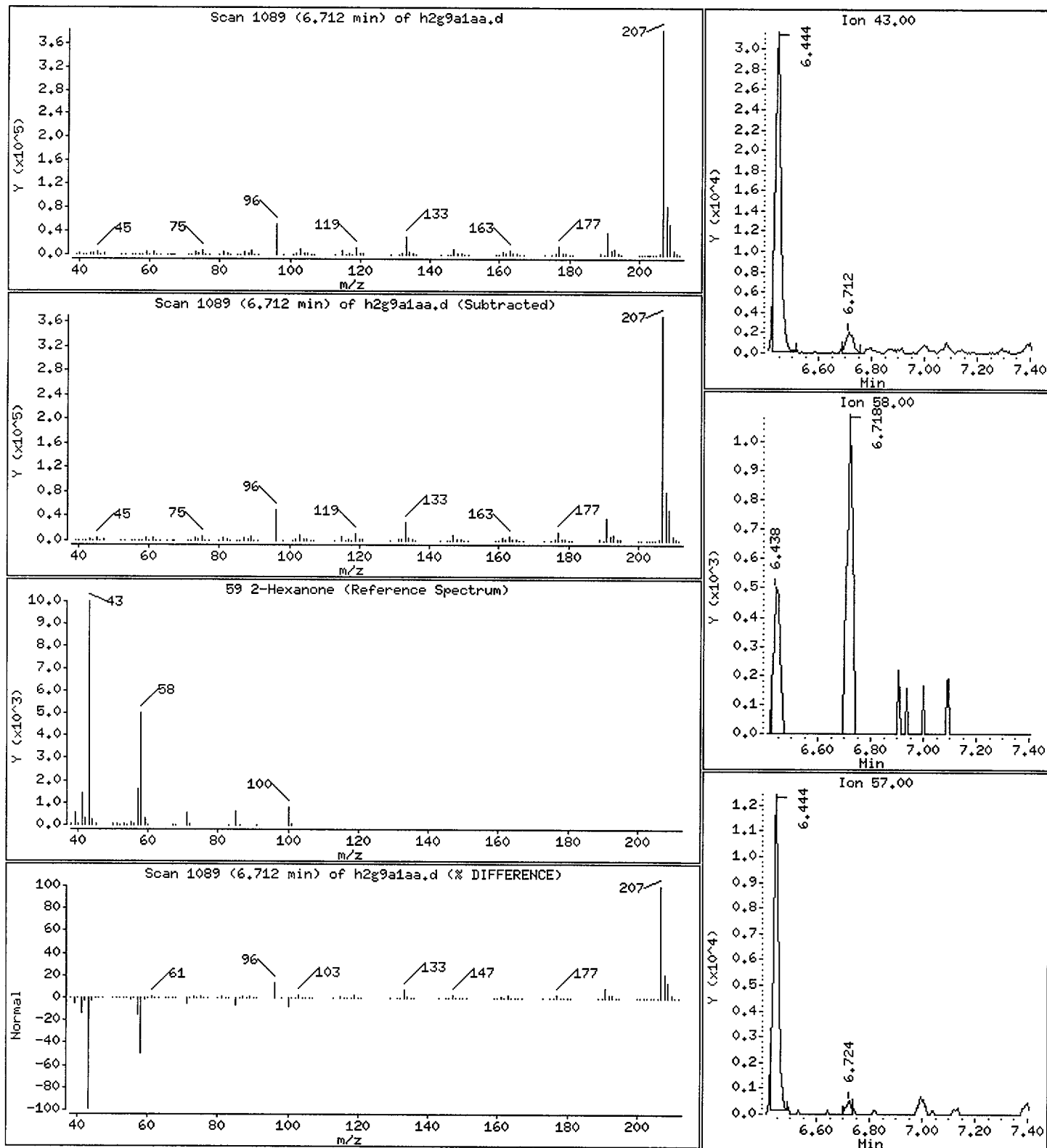
Operator: 22980

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,,,

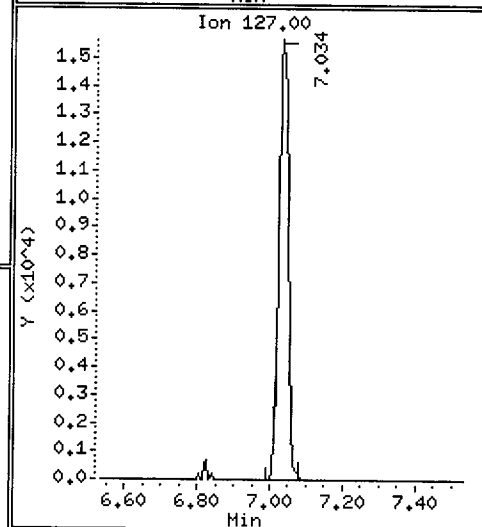
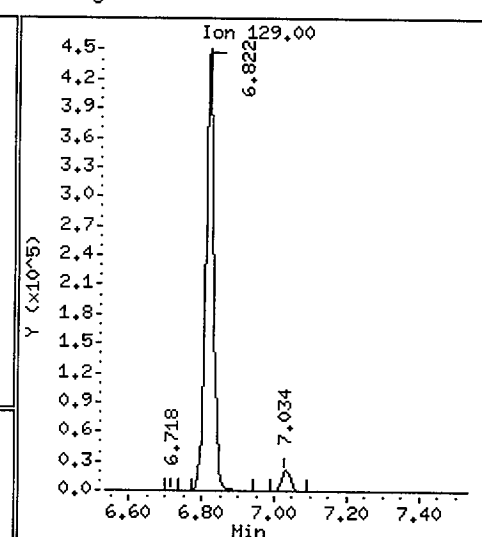
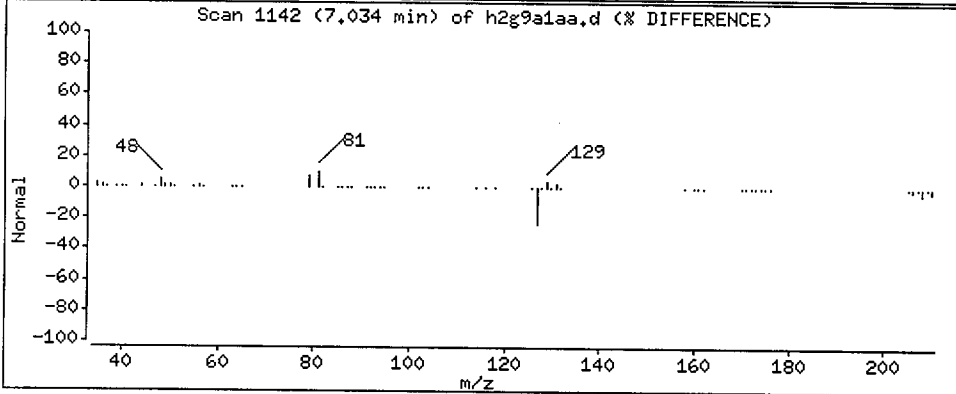
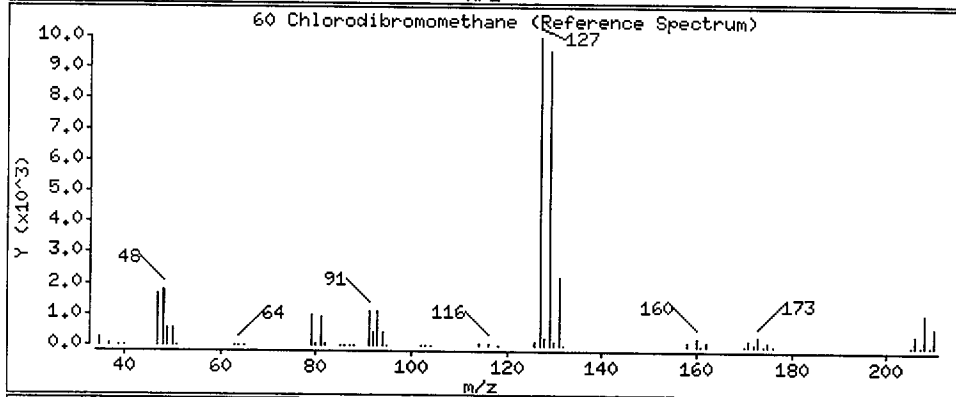
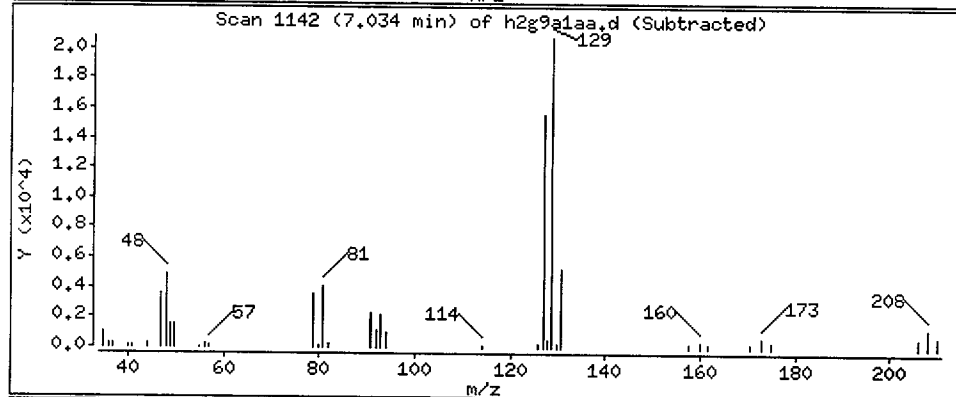
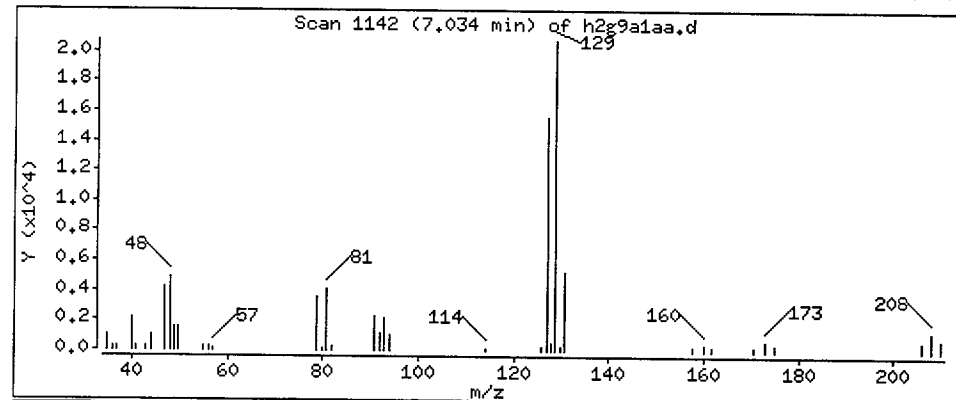
Operator: 22980

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,,,

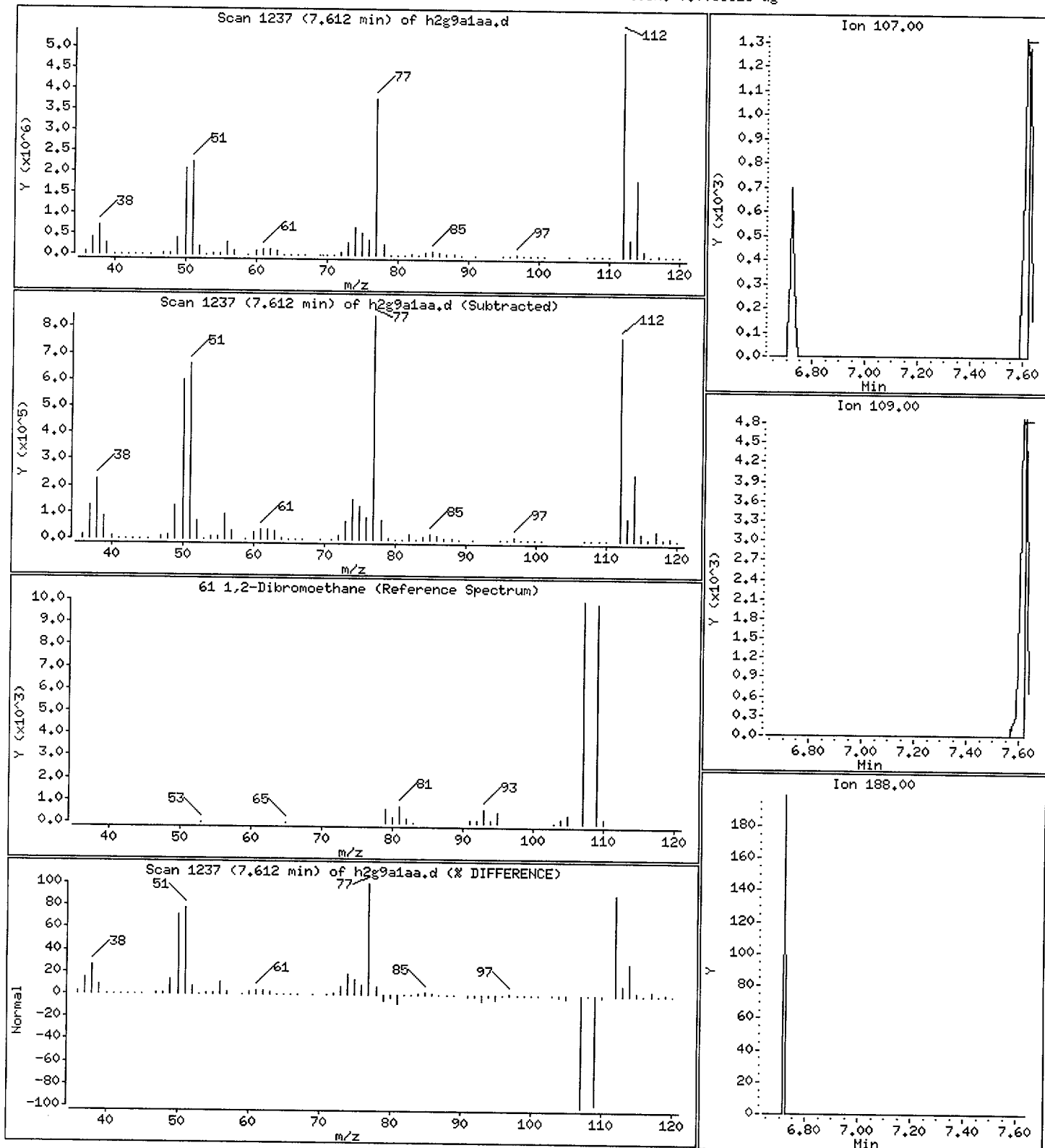
Operator: 22980

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,,,

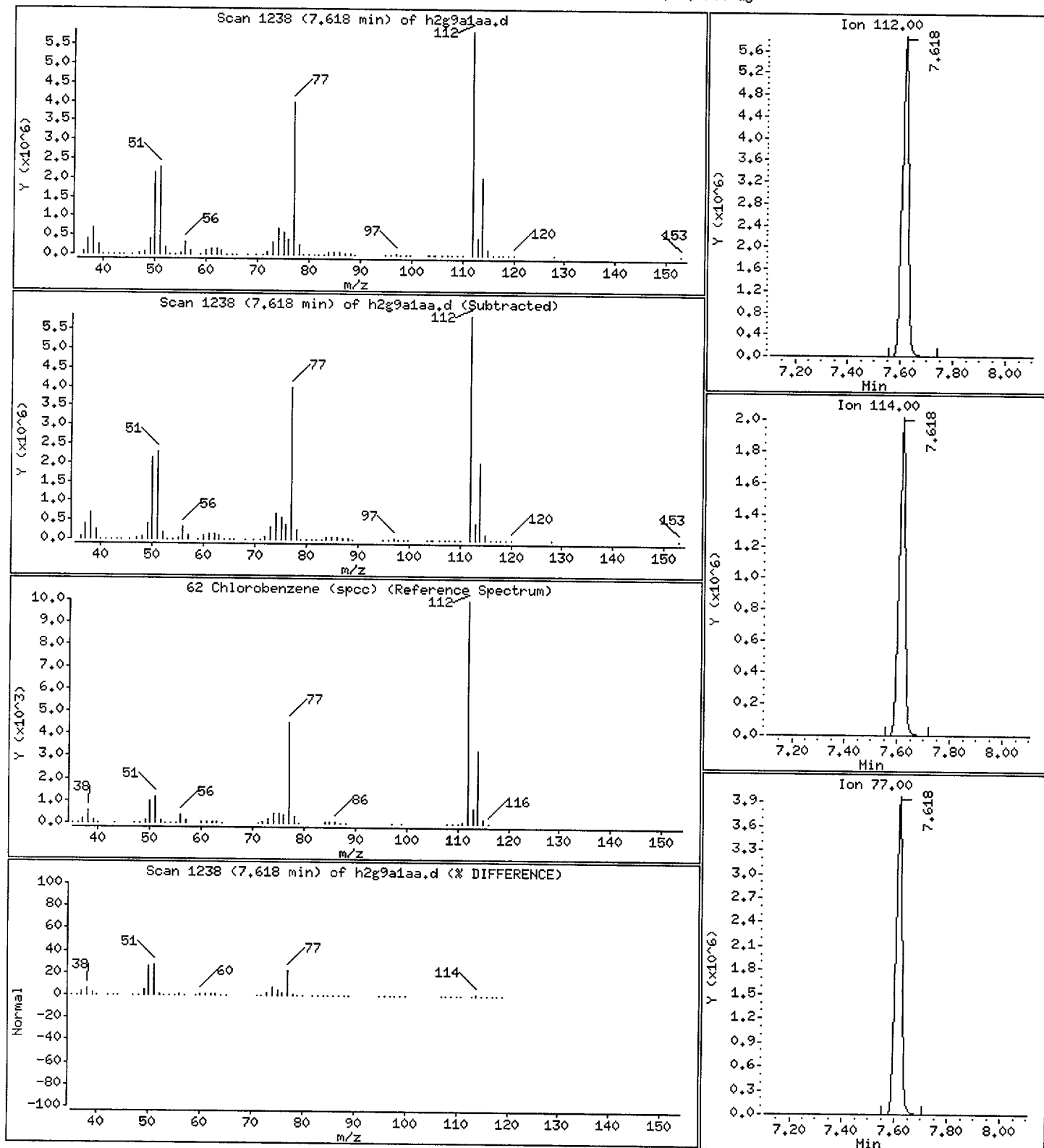
Operator: 22980

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,,,

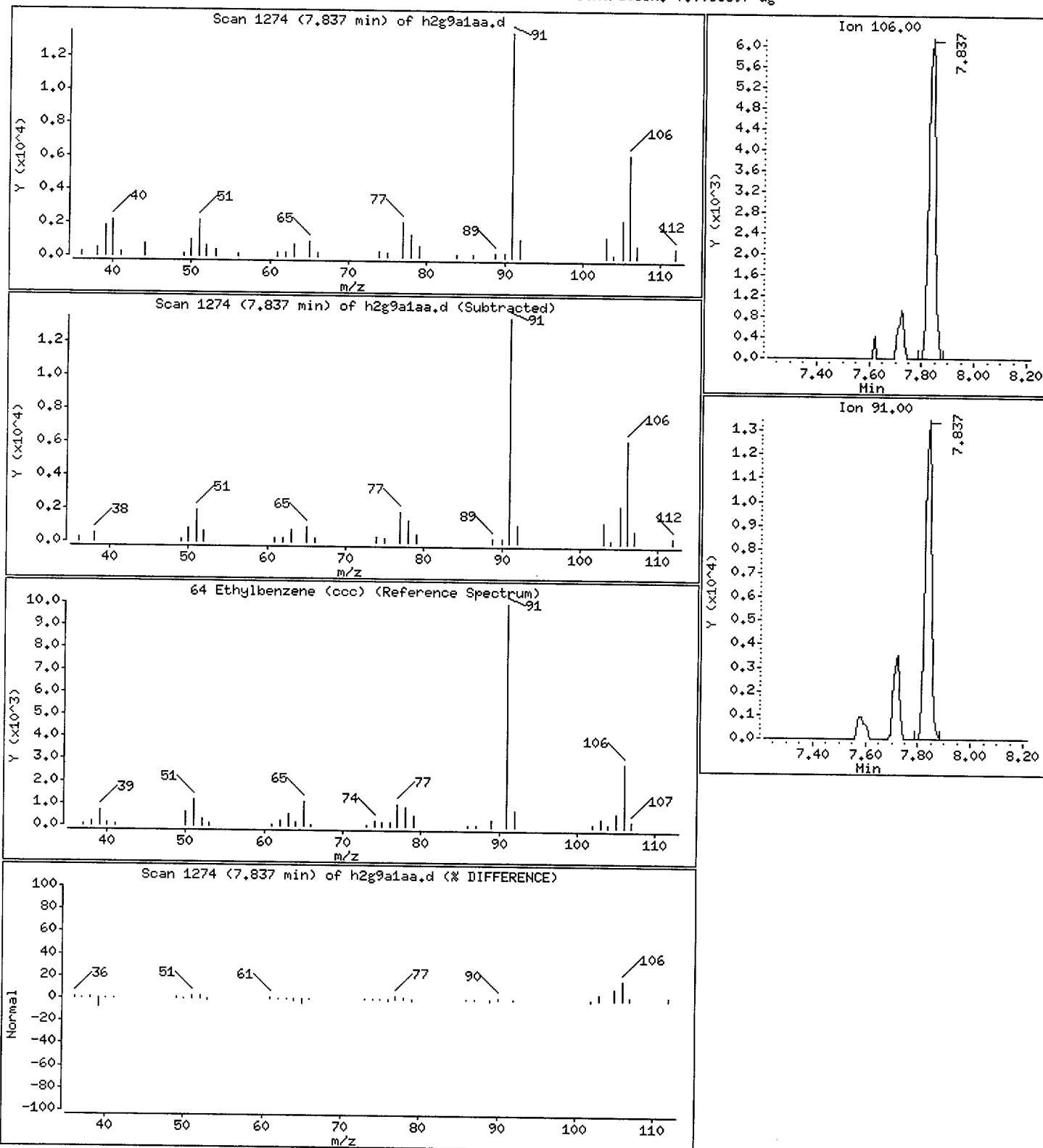
Operator: 22980

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,,,

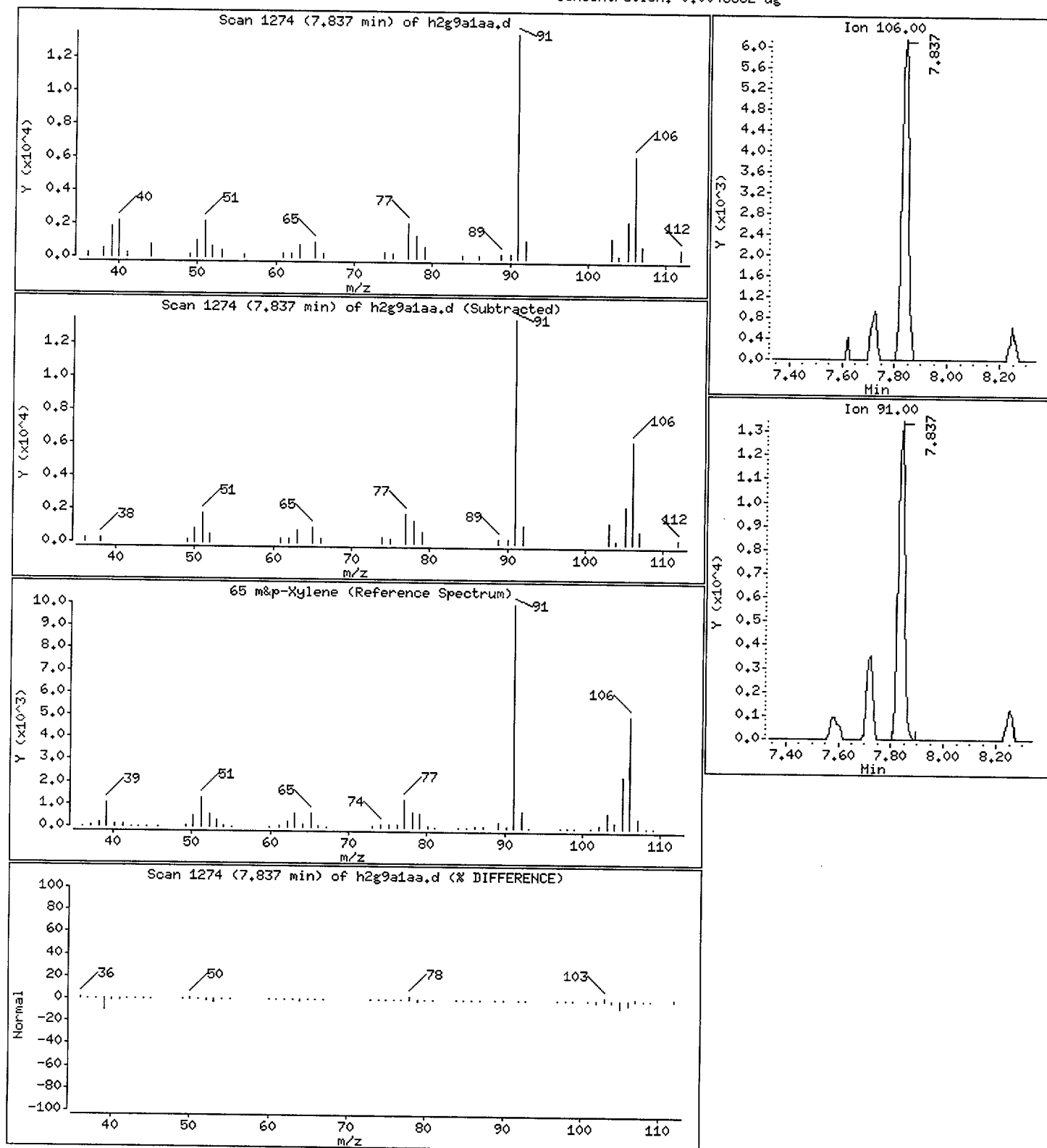
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9A1AA,1,0,,,

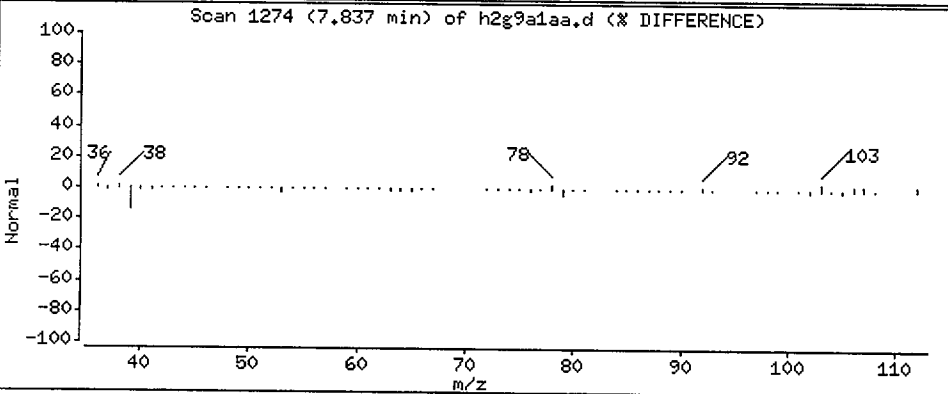
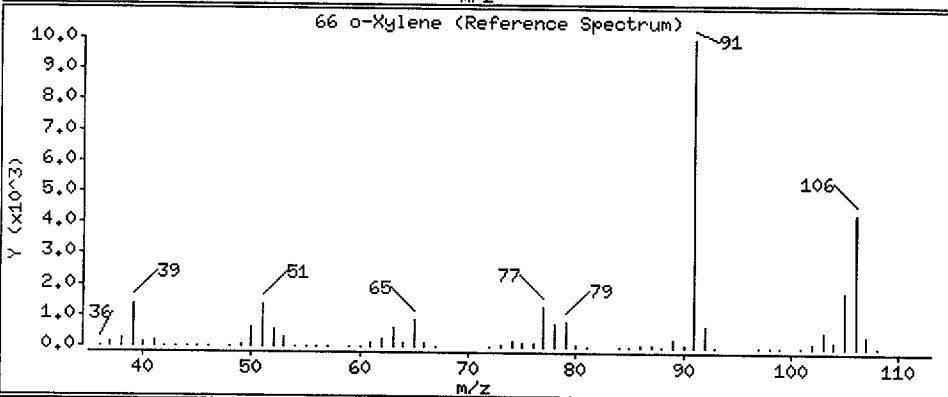
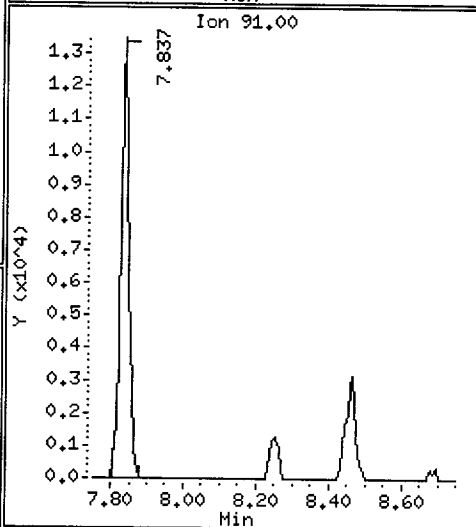
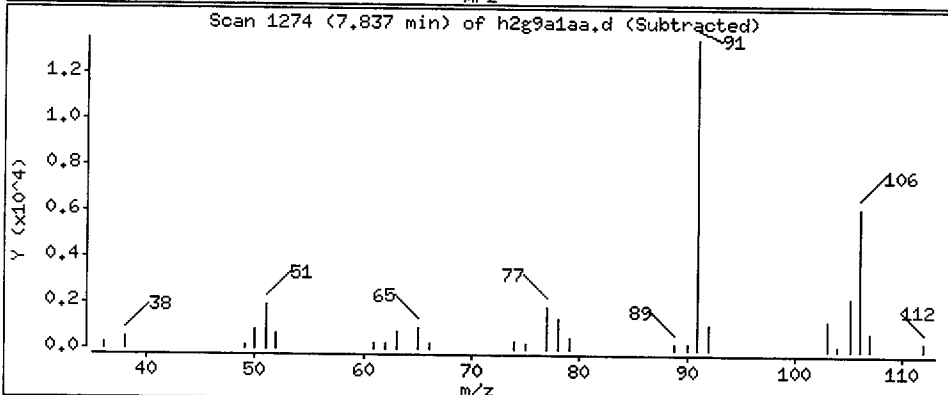
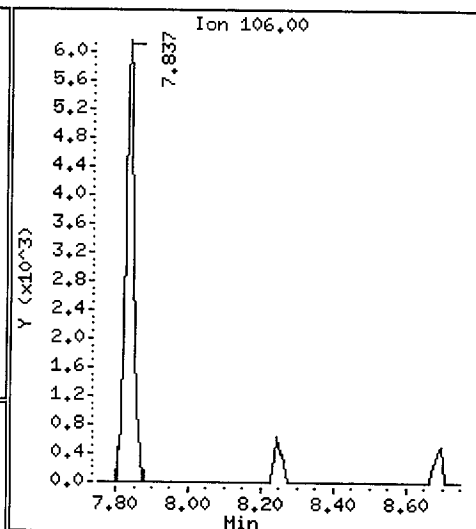
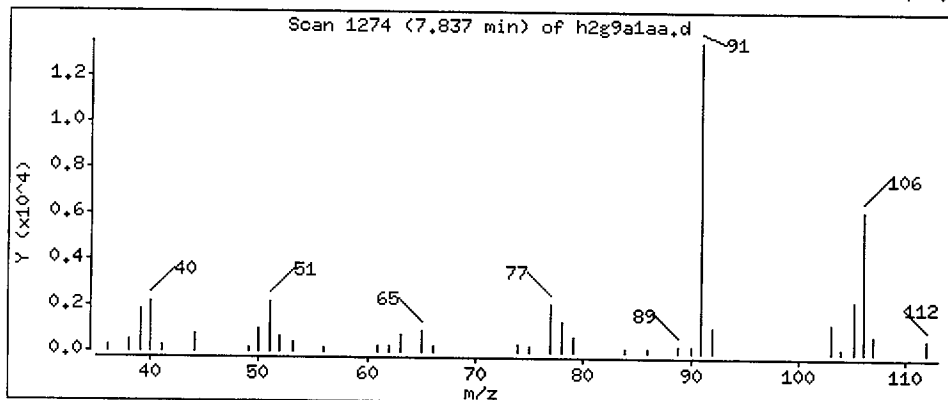
Operator: 22980

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,,,

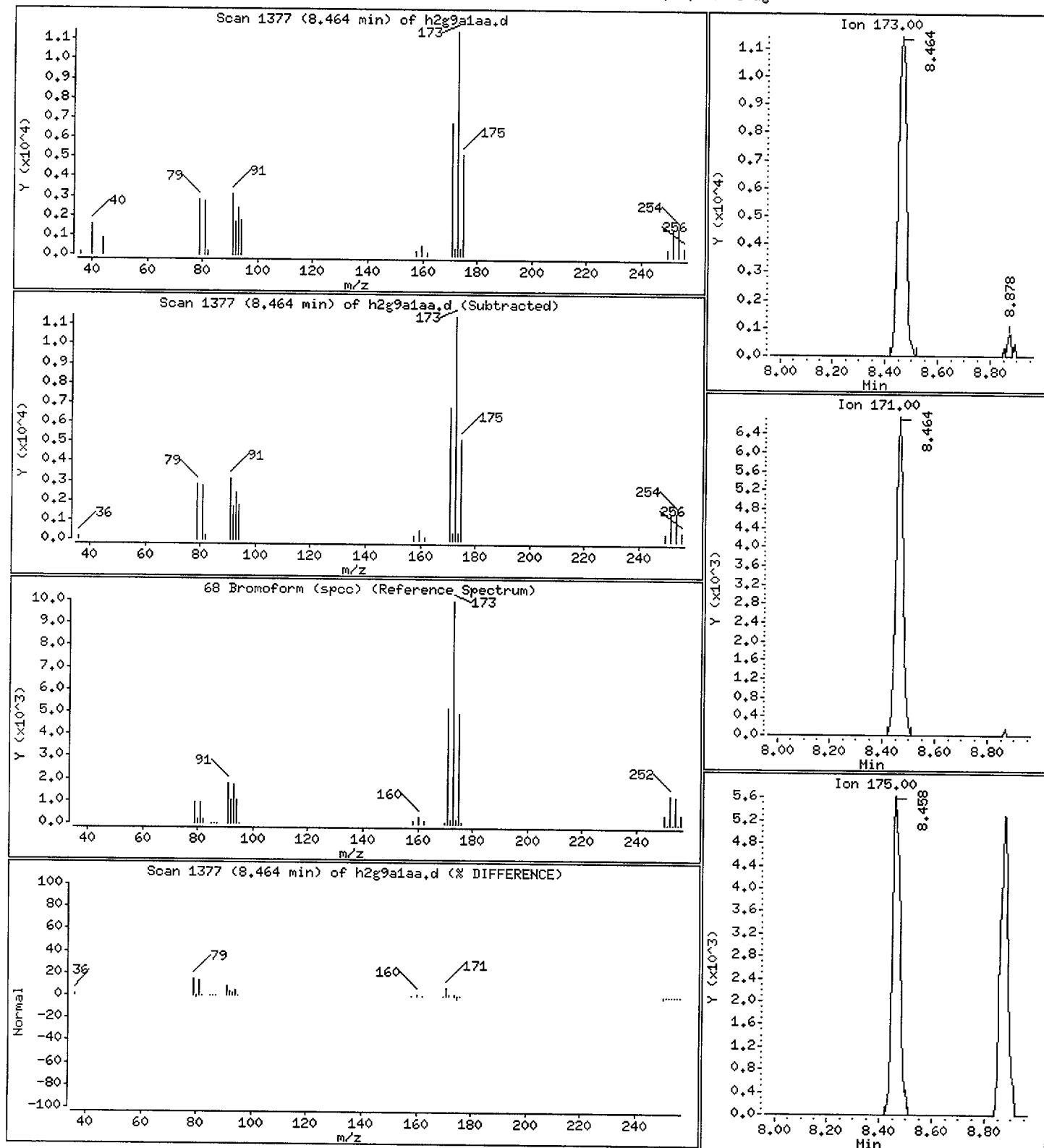
Operator: 22980

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: H2C9A1AA,1,0,,,

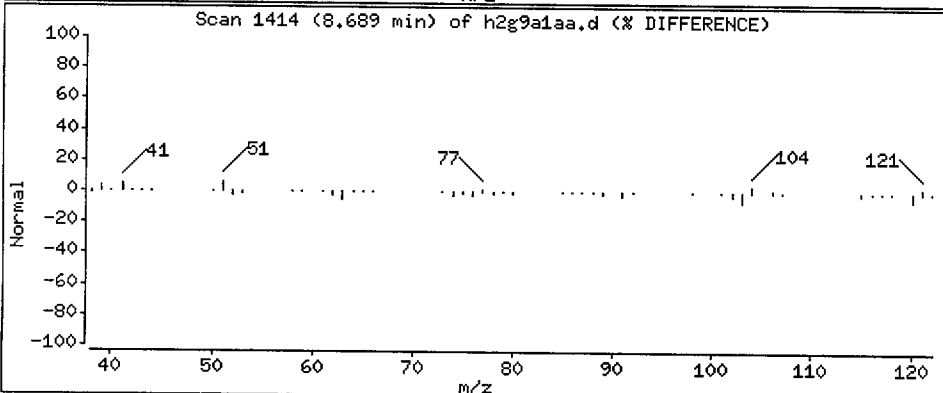
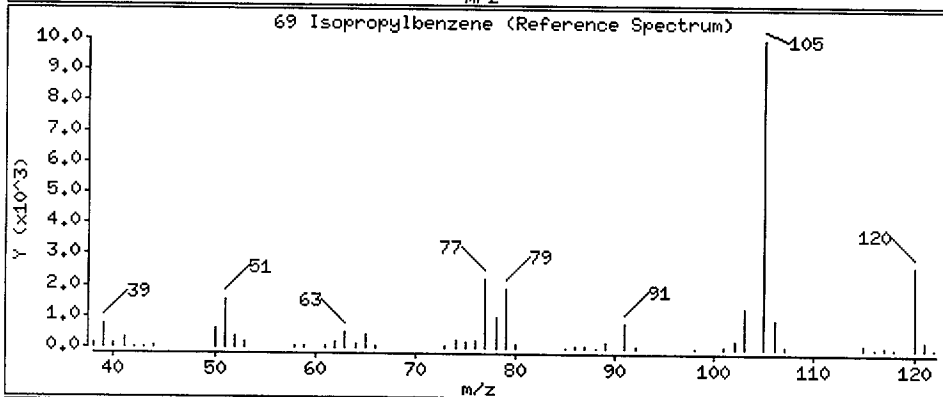
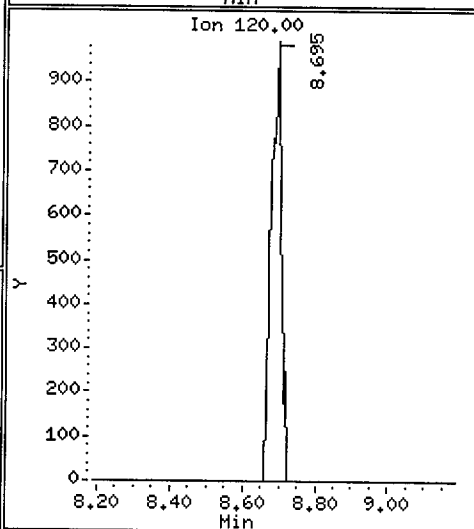
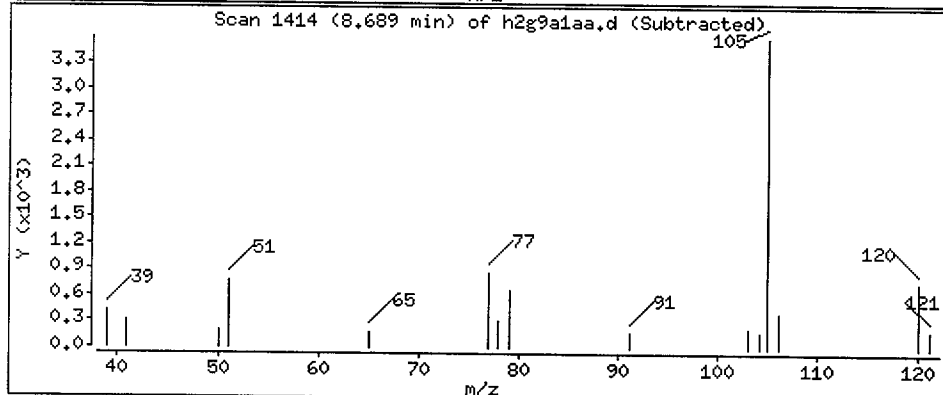
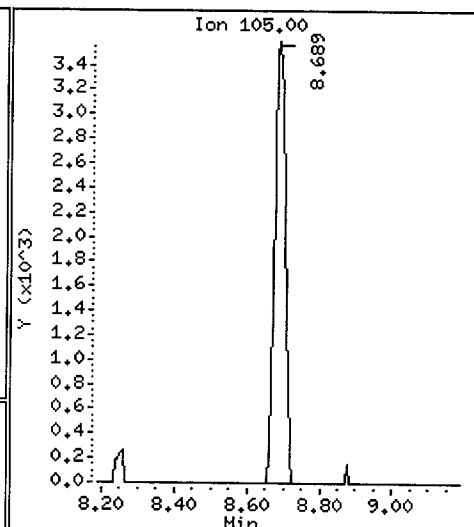
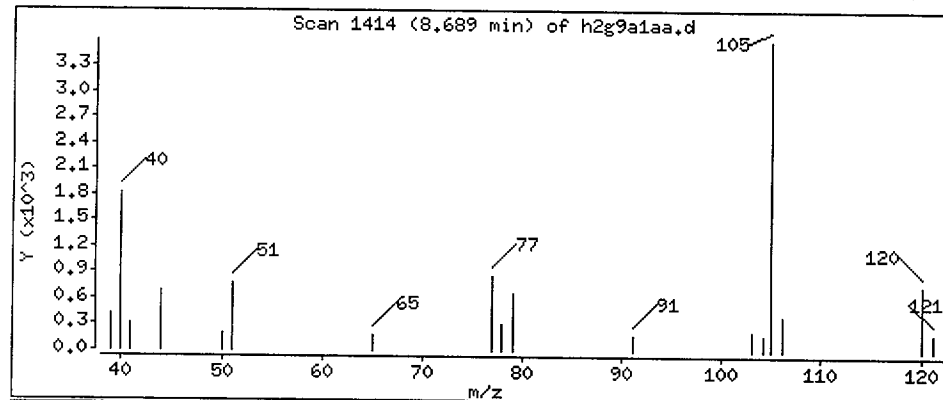
Operator: 22980

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: C-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,,

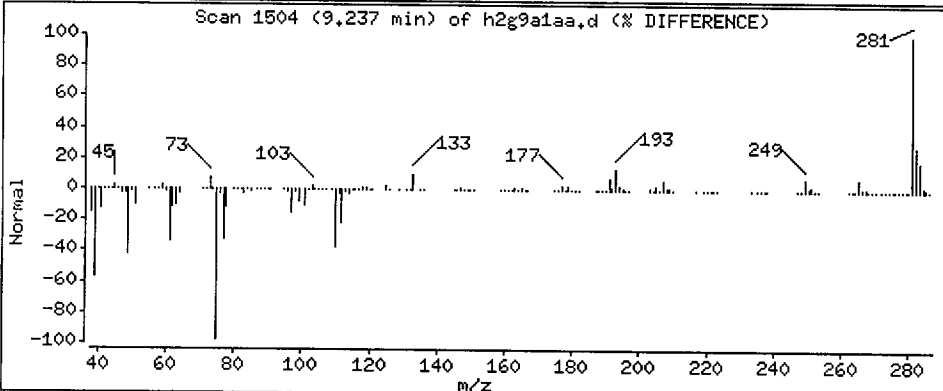
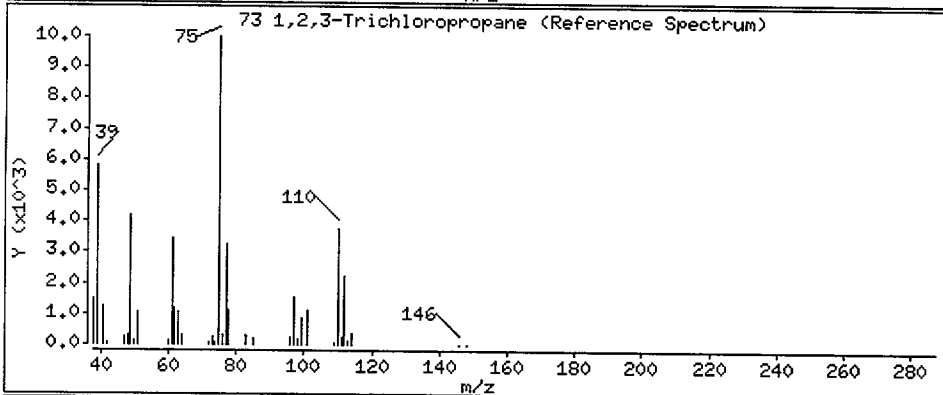
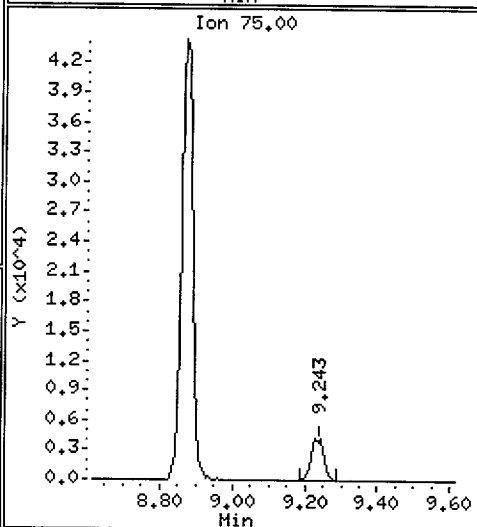
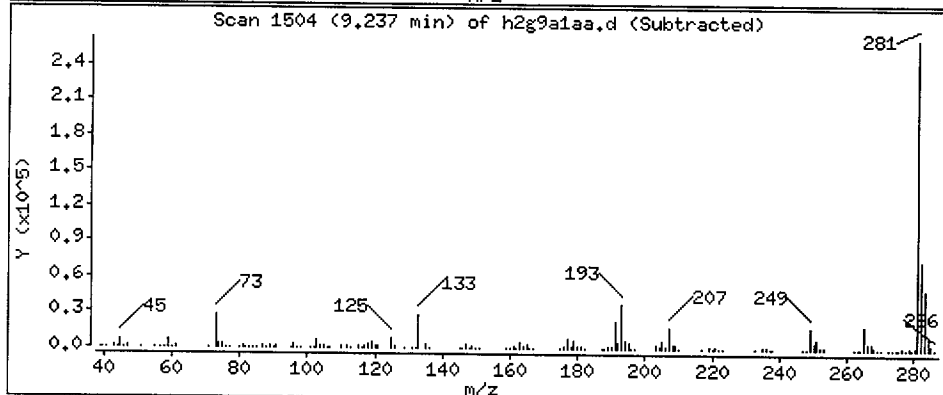
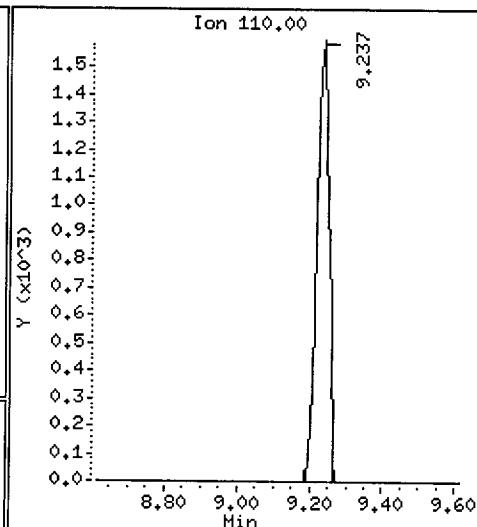
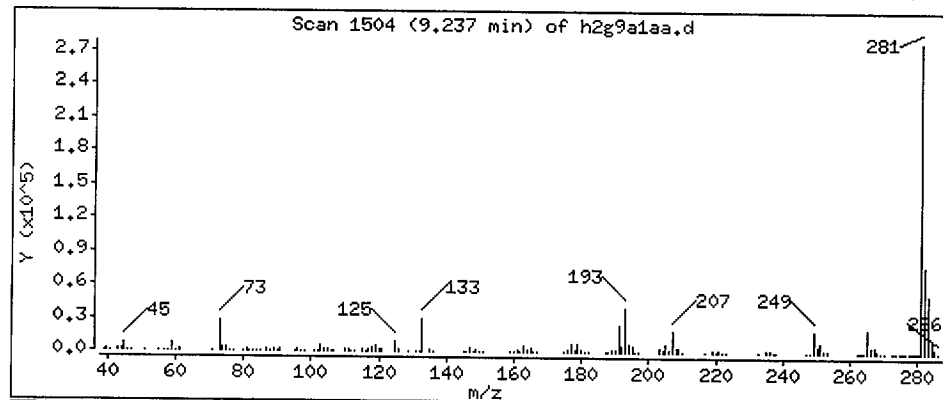
Operator: 22980

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,,,

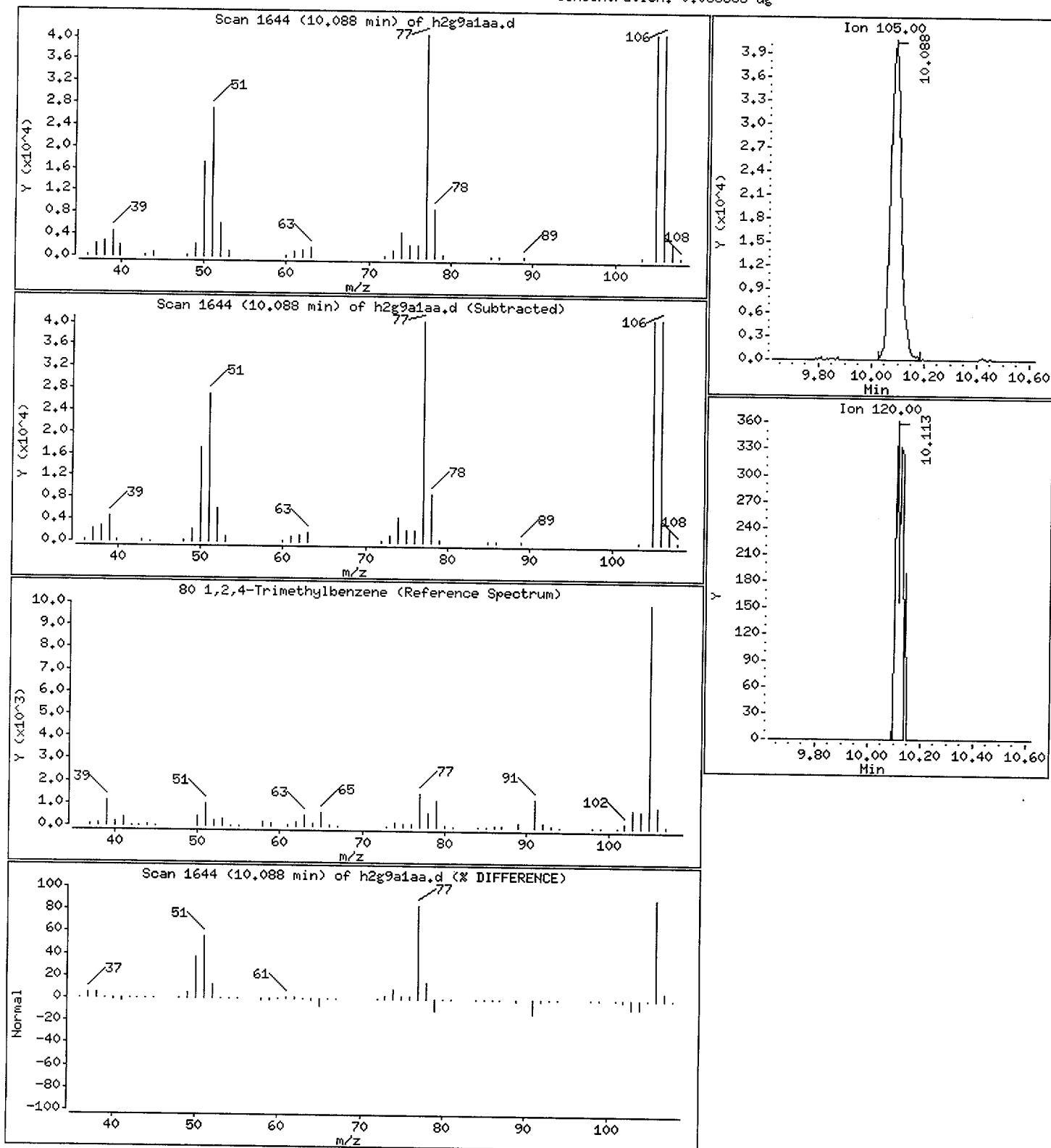
Operator: 22980

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,,,

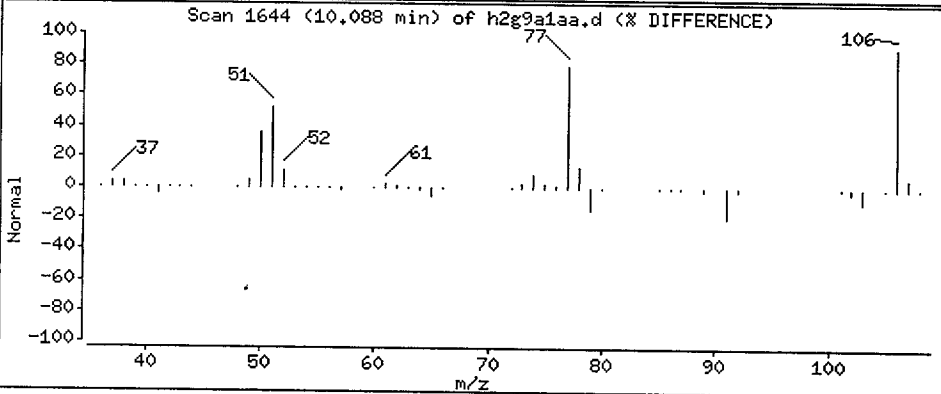
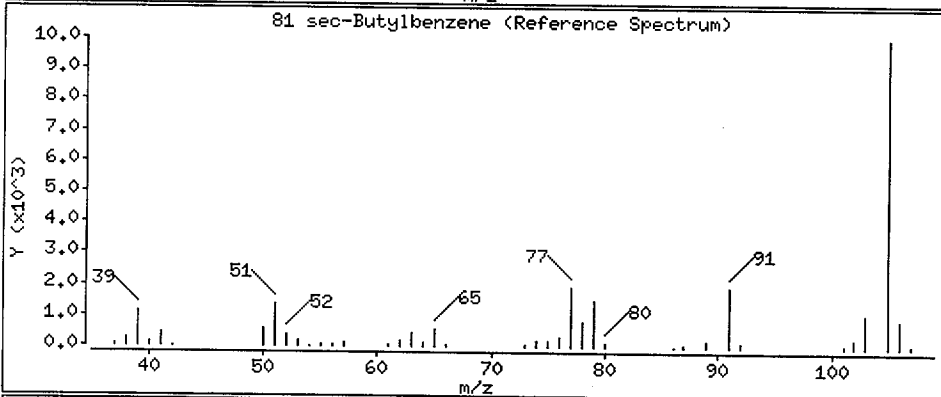
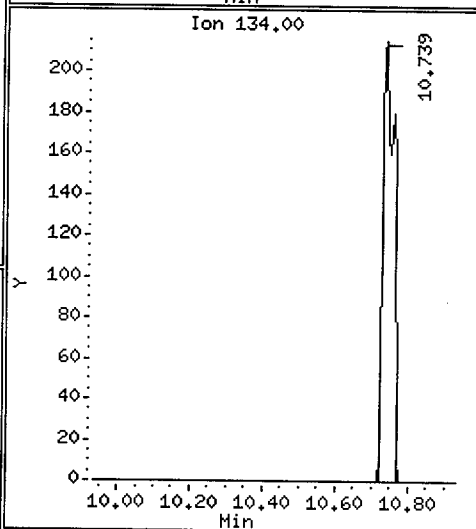
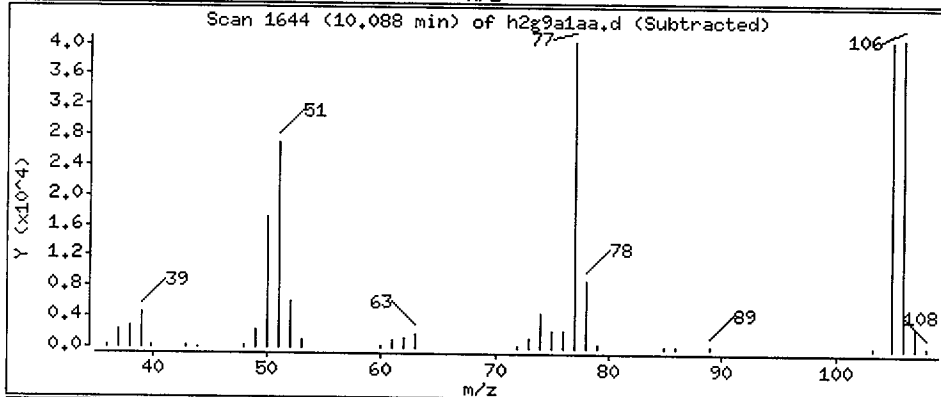
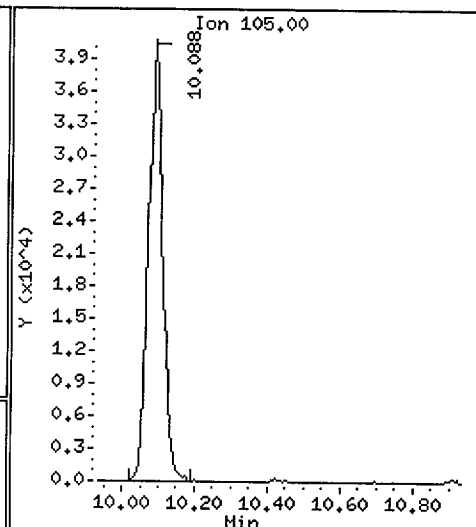
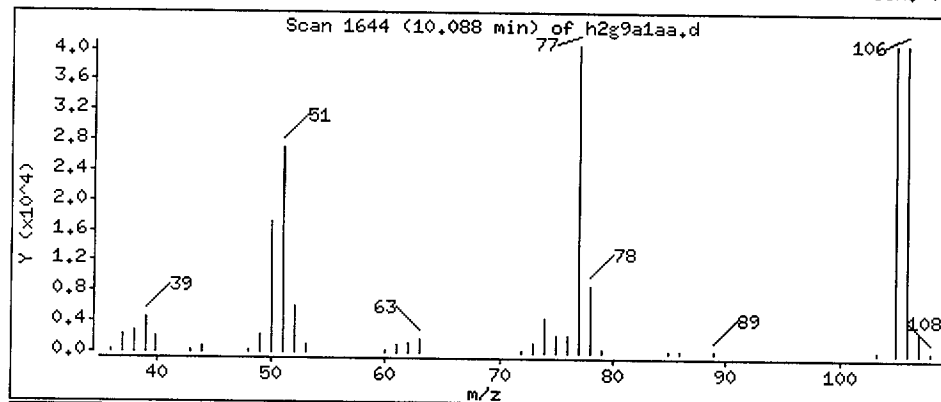
Operator: 22980

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,,,

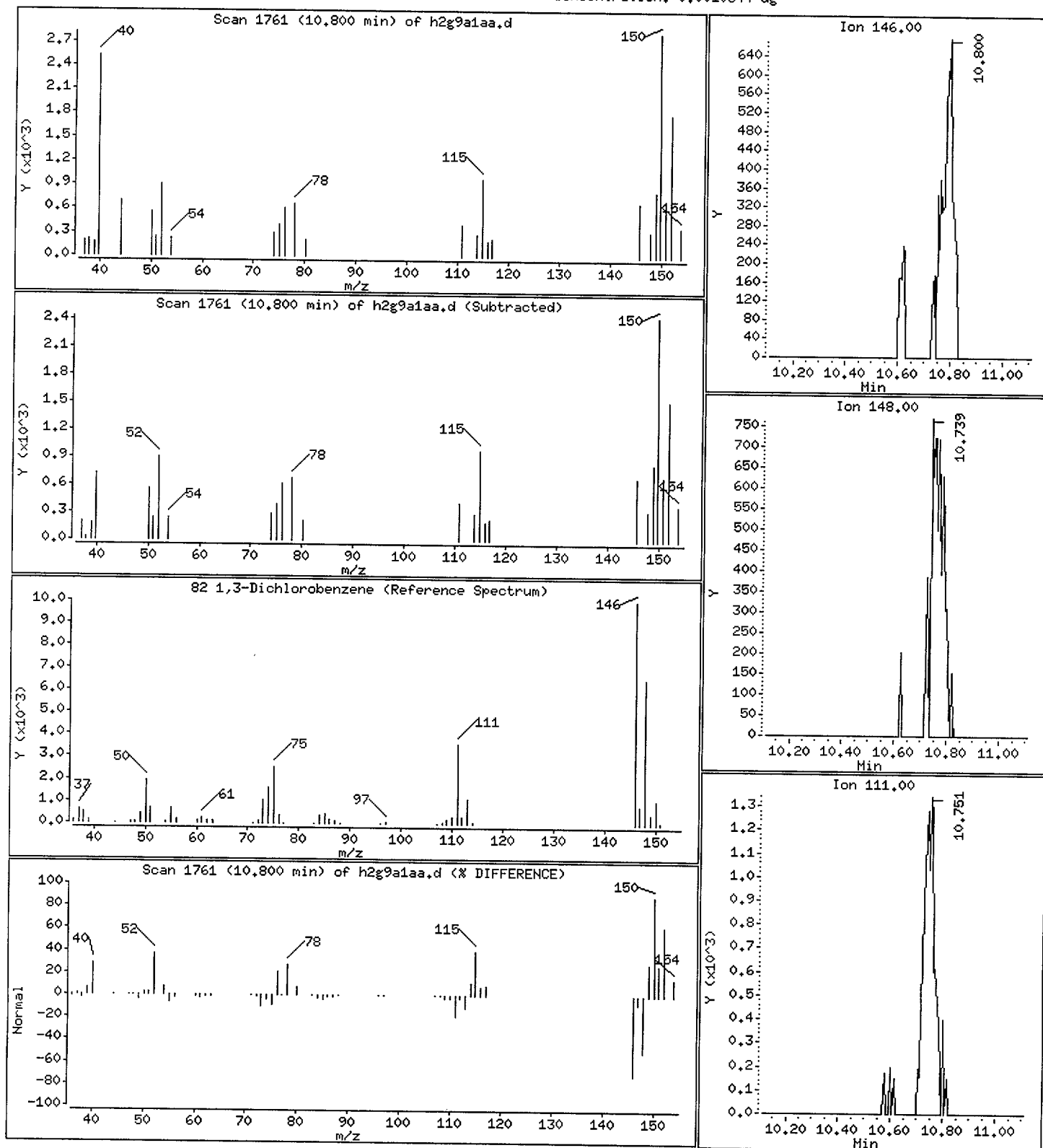
Operator: 22980

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,,,

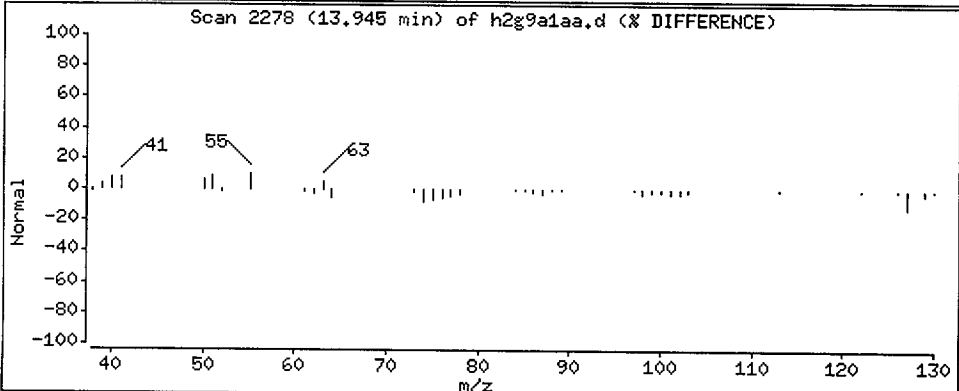
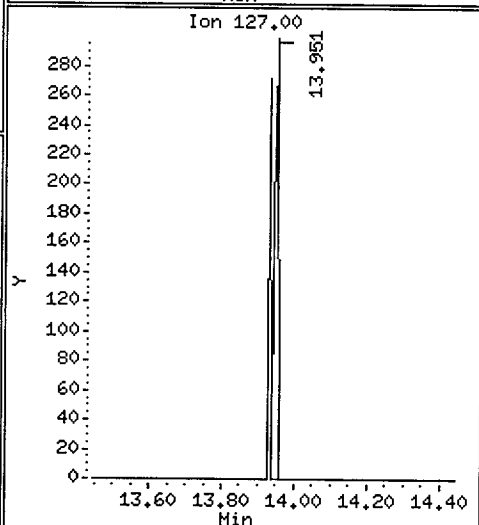
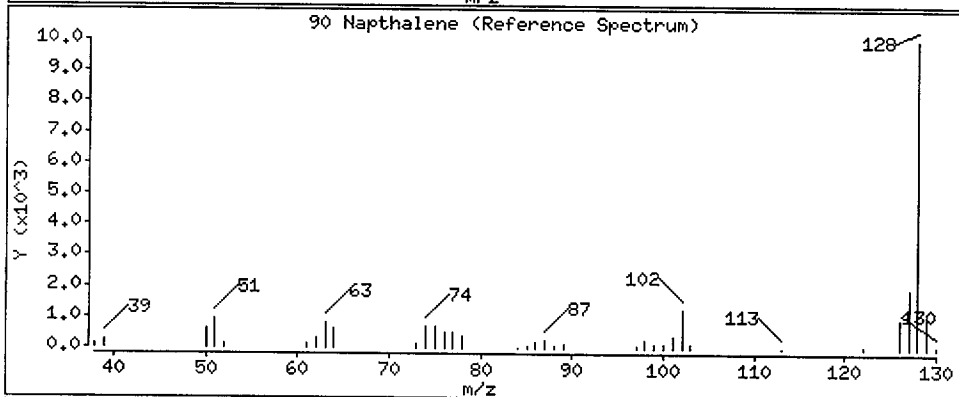
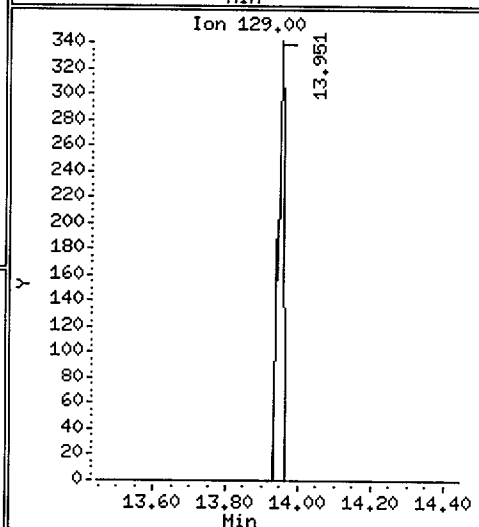
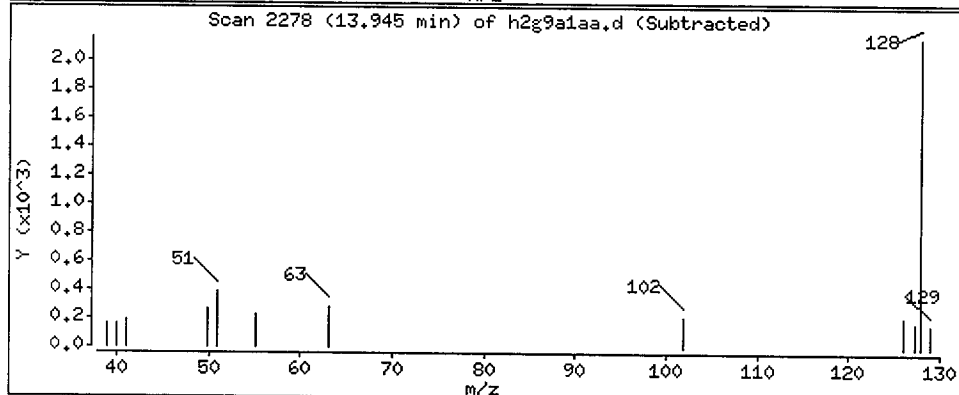
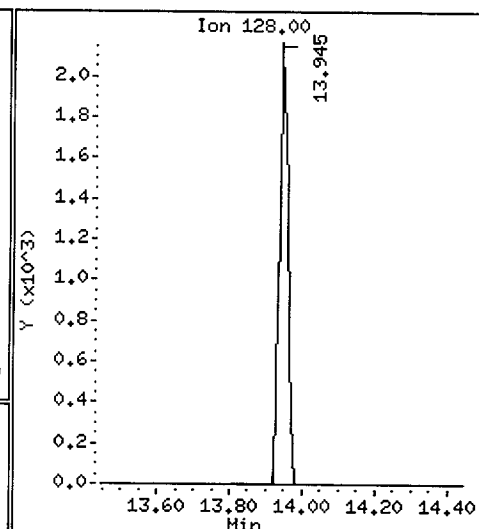
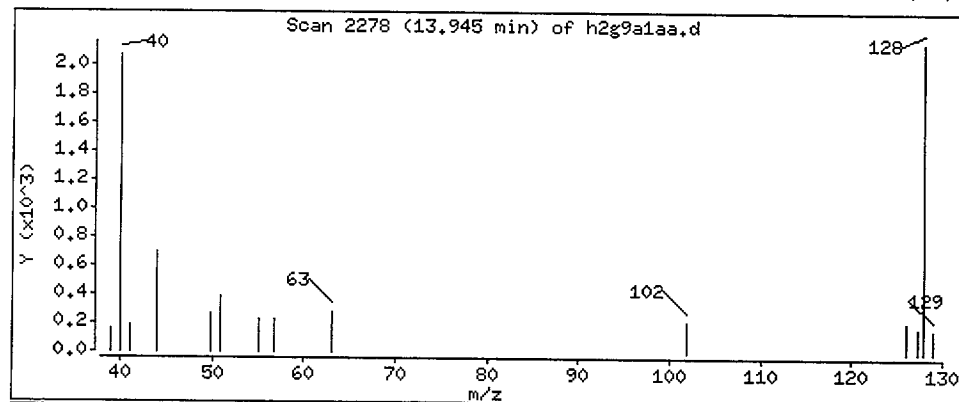
Operator: 22980

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

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

4/19/06 *tl*

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

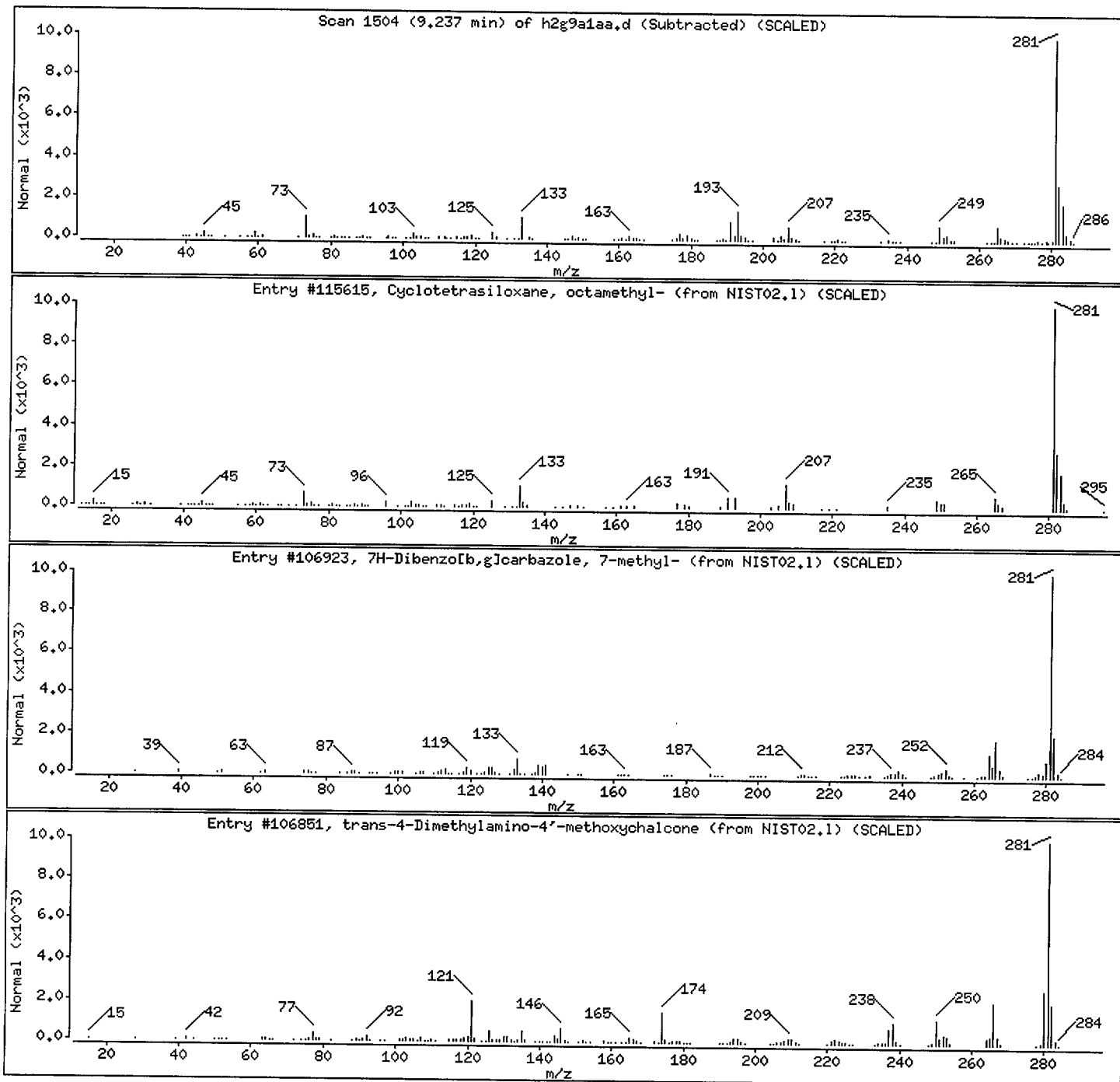
Sample Info: H2G9A1AA,1,0,,

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	C ₈ H ₂₄ O ₄ Si ₄	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	59	C ₂₁ H ₁₅ N	281
trans-4-Dimethylamino-4'-methoxychalcone	52119-37-6	NIST02.1	106851	50	C ₁₈ H ₁₉ NO ₂	281



Data File: /var/chem/gcms/mx.i/K040706.b/h2g9a1aa.d

Date: 07-APR-2006 12:32

Client ID: G-2912-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9A1AA,1,0,,

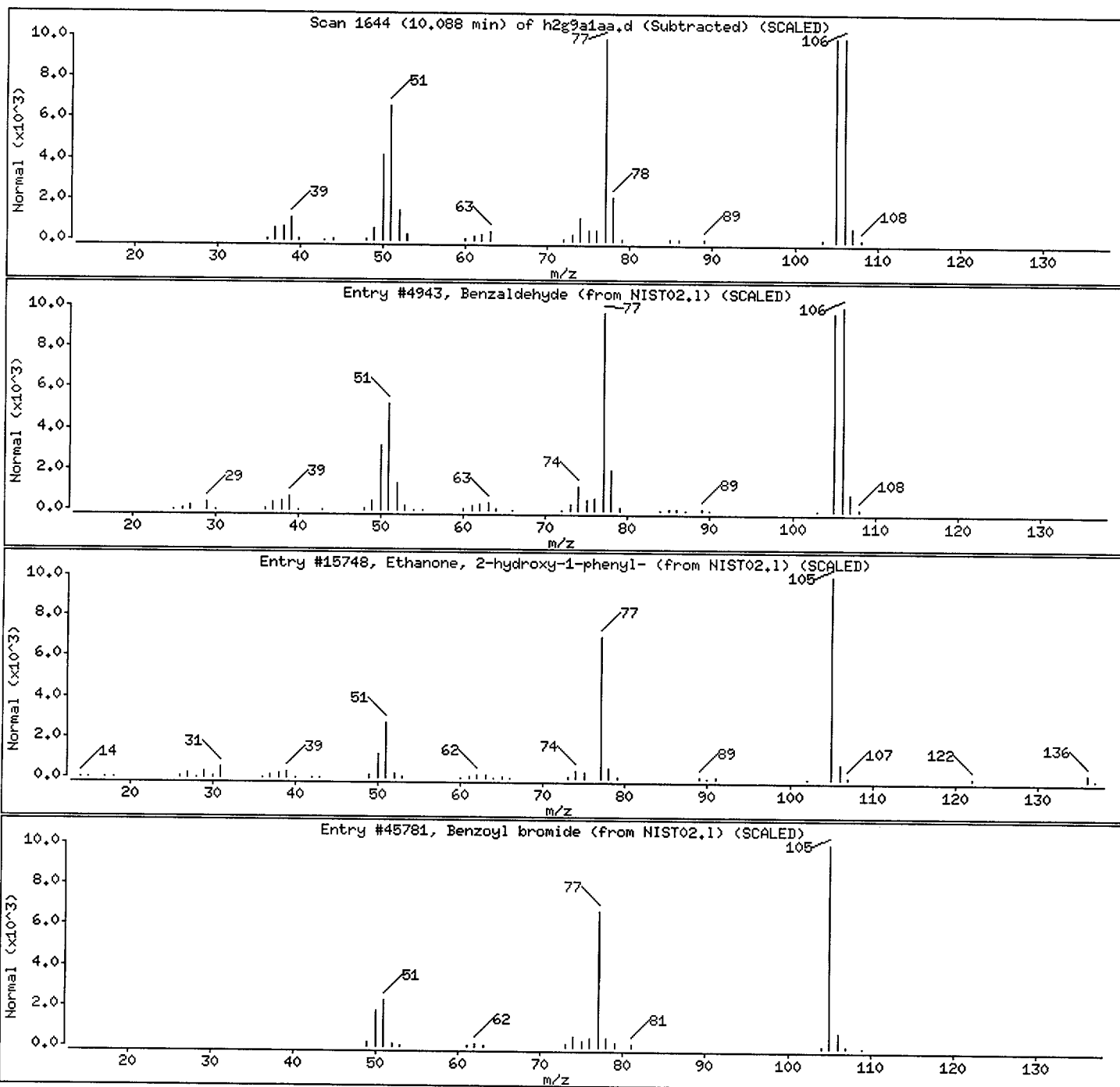
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match

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

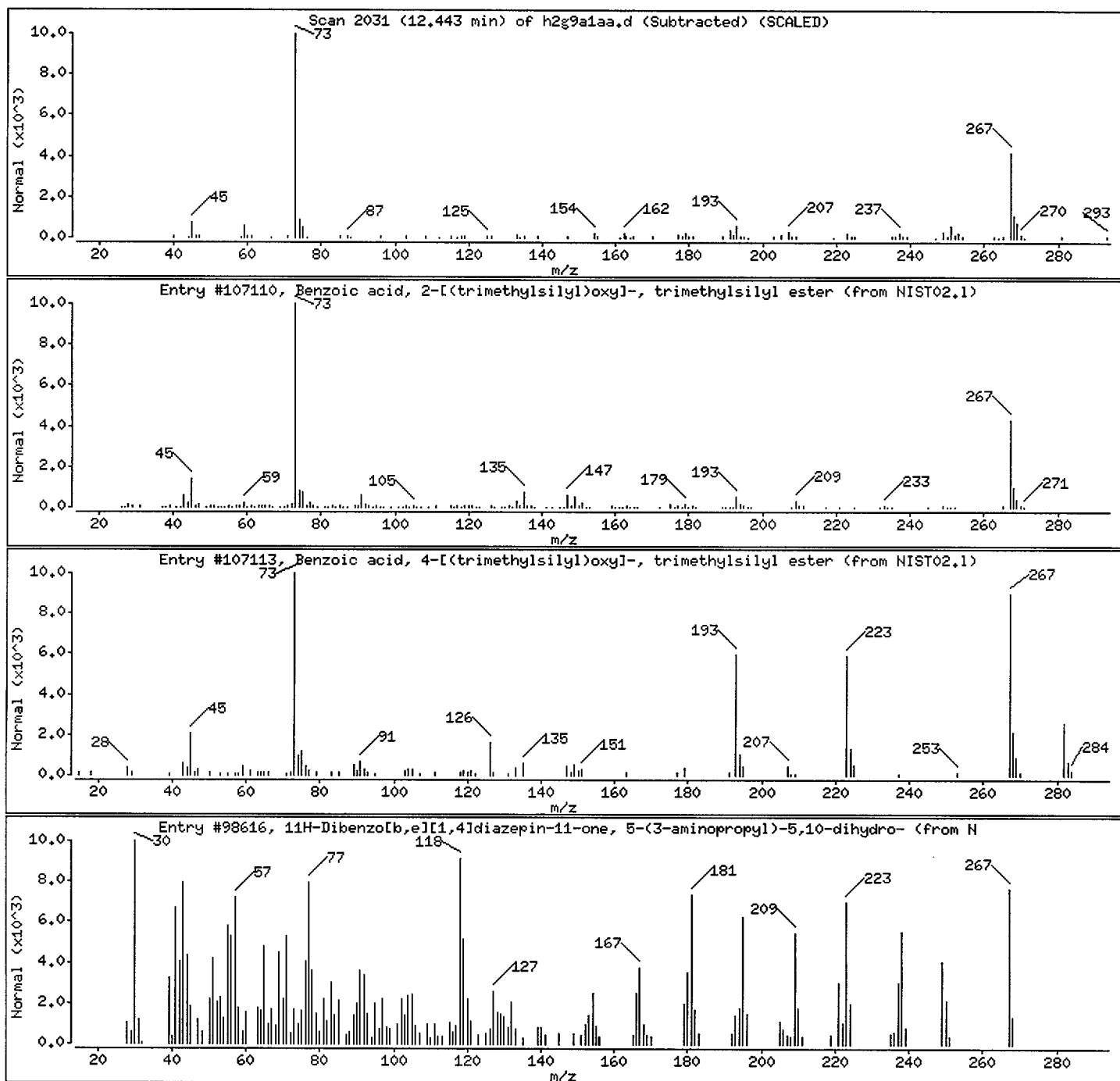
Sample Info: H2G9A1AA,1,0,,,

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	C ₁₃ H ₂₂ O ₃ Si ₂	282
Benzoic acid, 4-[(trimethylsilyl)oxy]-,	2078-13-9	NIST02.1	107113	38	C ₁₃ H ₂₂ O ₃ Si ₂	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.1	98616	32	C ₁₆ H ₁₇ N ₃ O	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

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
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

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/L)	(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)	

QC Flag Legend

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

W
05/10/06

plus 10-06

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	Calibration Date: 07-APR-2006
Lab File ID: h2g9a1aa.d	Calibration Time: 09:16
Lab Smp Id: H2G9A1AA	Client Smp ID: G-2912-R1-VOST PAIR
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mx.i/X050306.b/clbz.m	
Misc Info: X040706,8260B_LM,focus.sub	

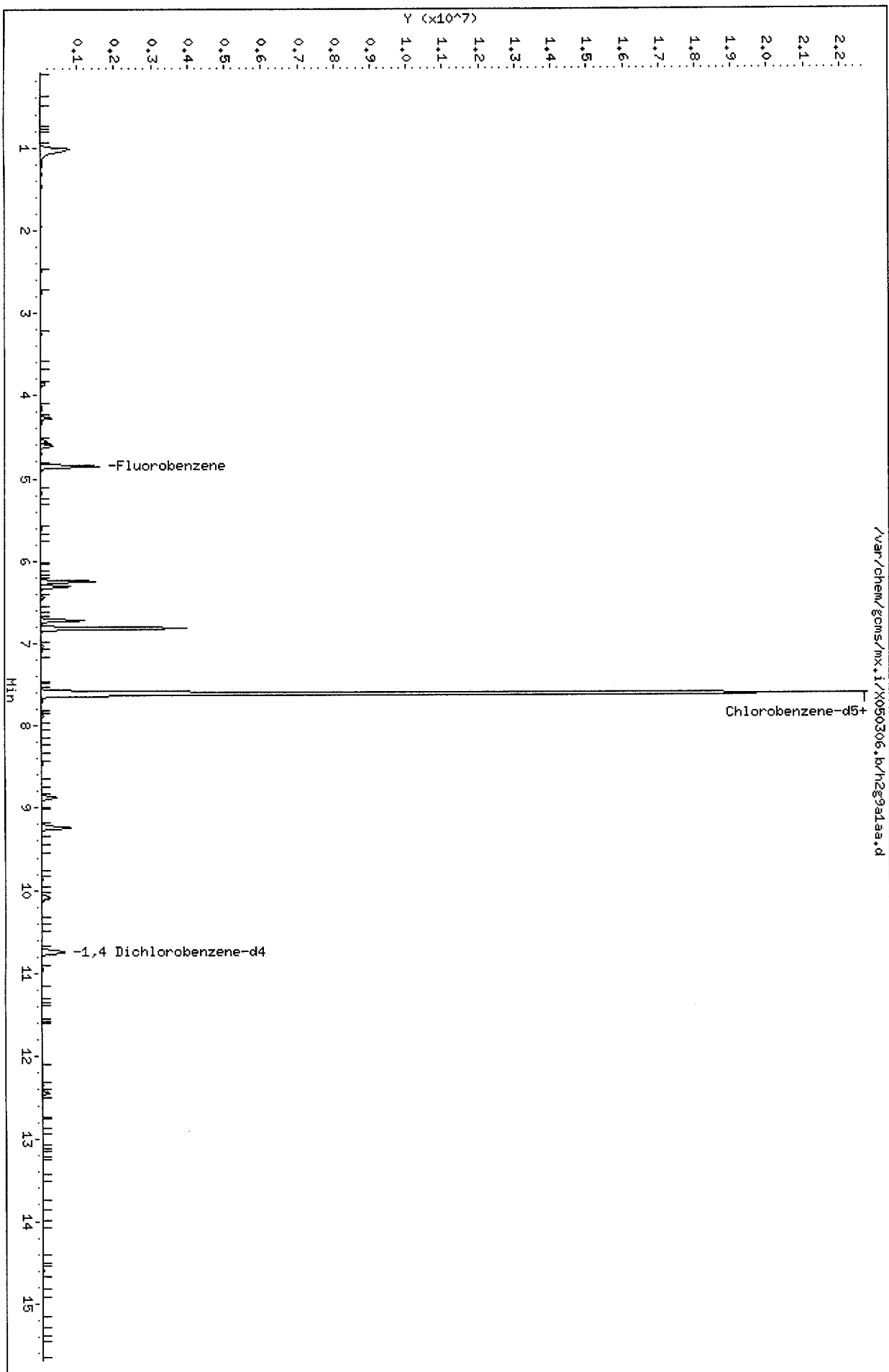
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Fluorobenzene	1149191	574596	2298382	1228077	6.86
2 Chlorobenzene-d5	214194	107097	428388	240036	12.06
3 1,4 Dichlorobenze	242601	121300	485202	257667	6.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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/h2g9a1a.d
Date : 07-APR-2006 12:32
Client ID: G-2912-R1-VOST PAIR
Sample Info: H2C9H4IA,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,,,

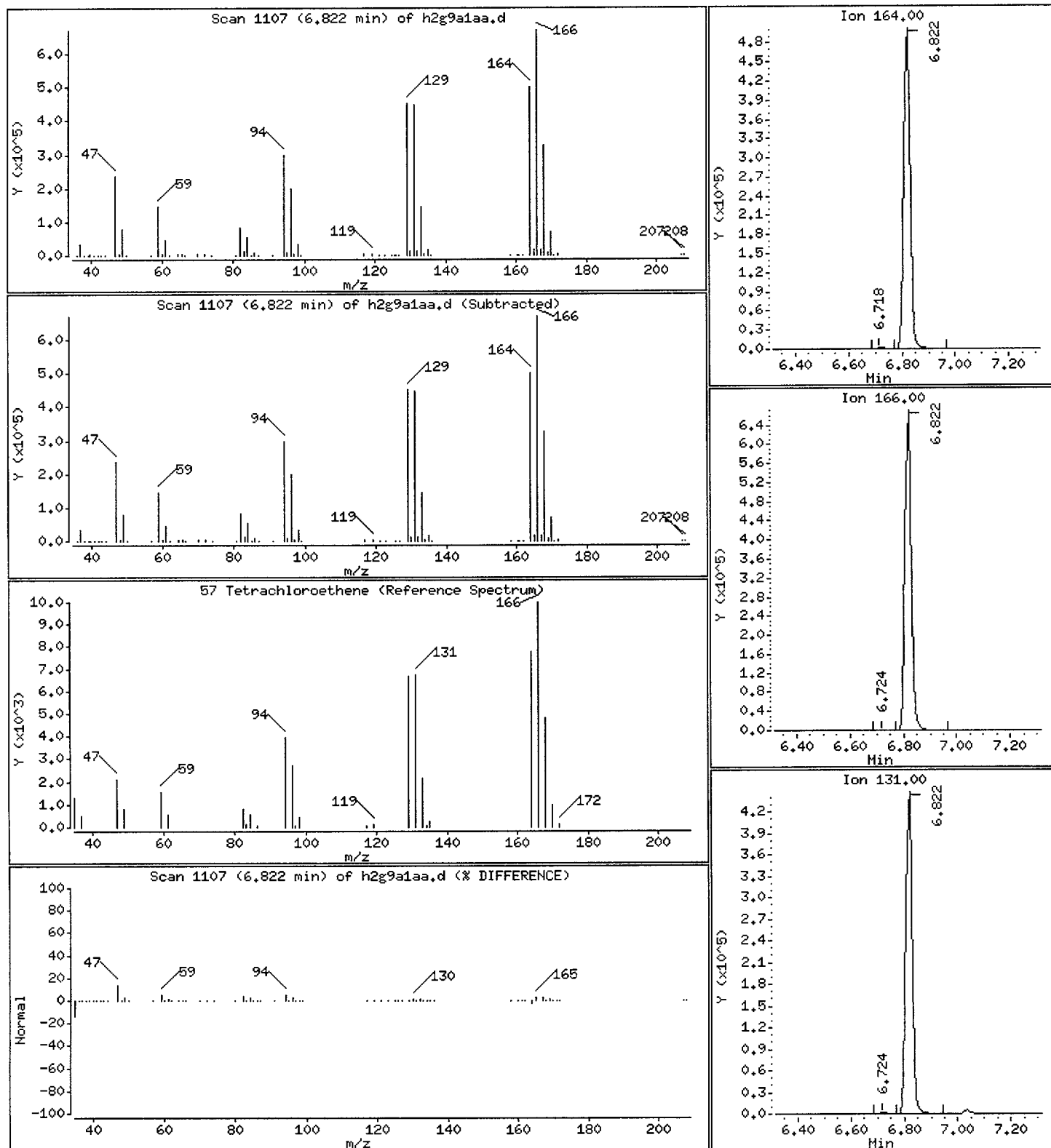
Operator: 22980

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,,,

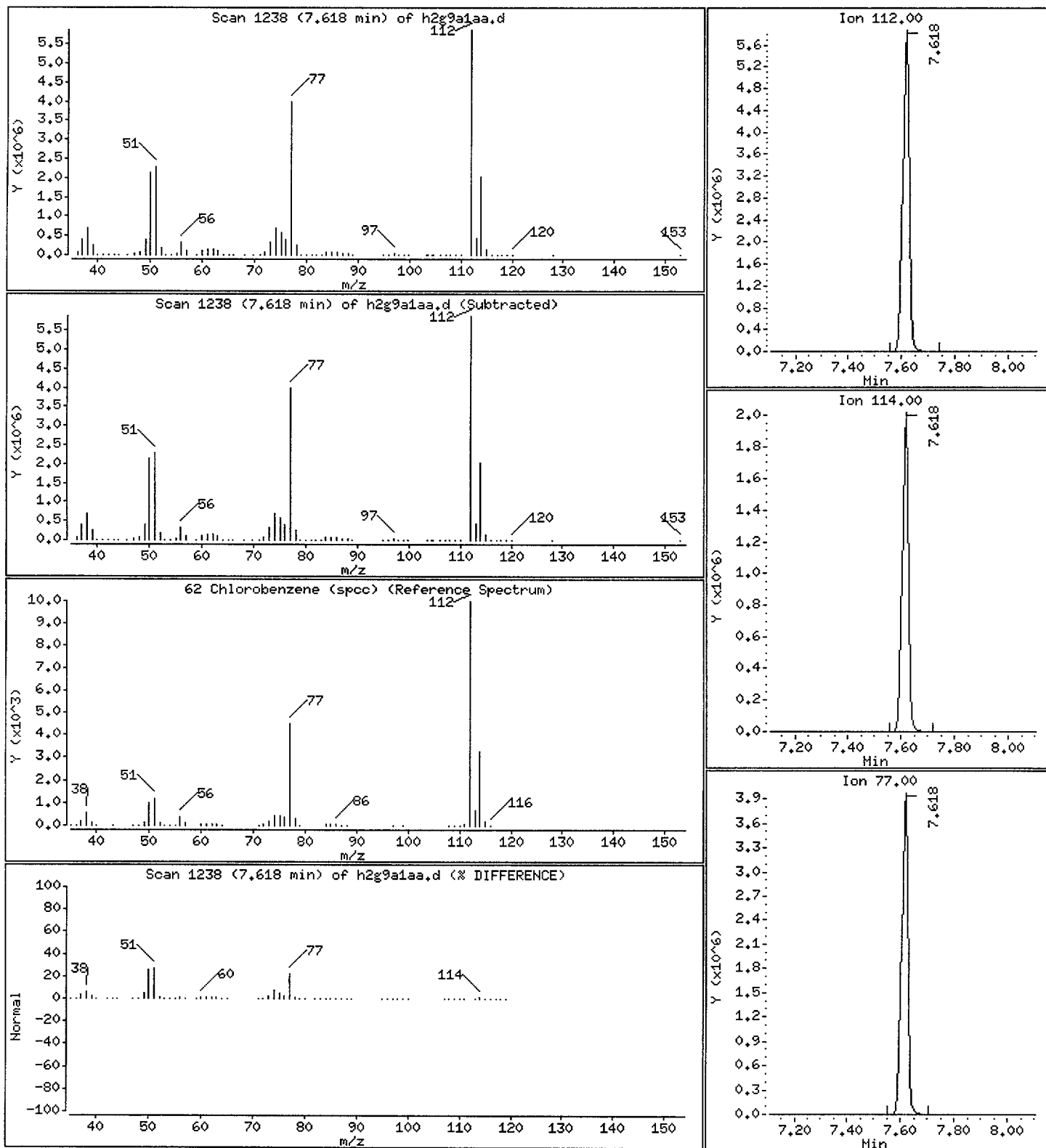
Operator: 22980

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 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

(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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

Handwritten: 04/21/06

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		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

Handwritten: 7/24/06
See Report for (m)

Data File: /chem/gcms/mz.i/Z040706.b/h2g9d1aa.d
 Report Date: 07-Apr-2006 17:48

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/L)	(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

7/4.14.06

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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	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			CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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

Client SDG: H6D030169

Sample Matrix: GAS

Fraction: VOA

Lab Smp Id: H2G9D1AA

Client Smp ID: G-2913-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/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	0.29602	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/2040706.b/h2g9d1aa.d

Date: 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

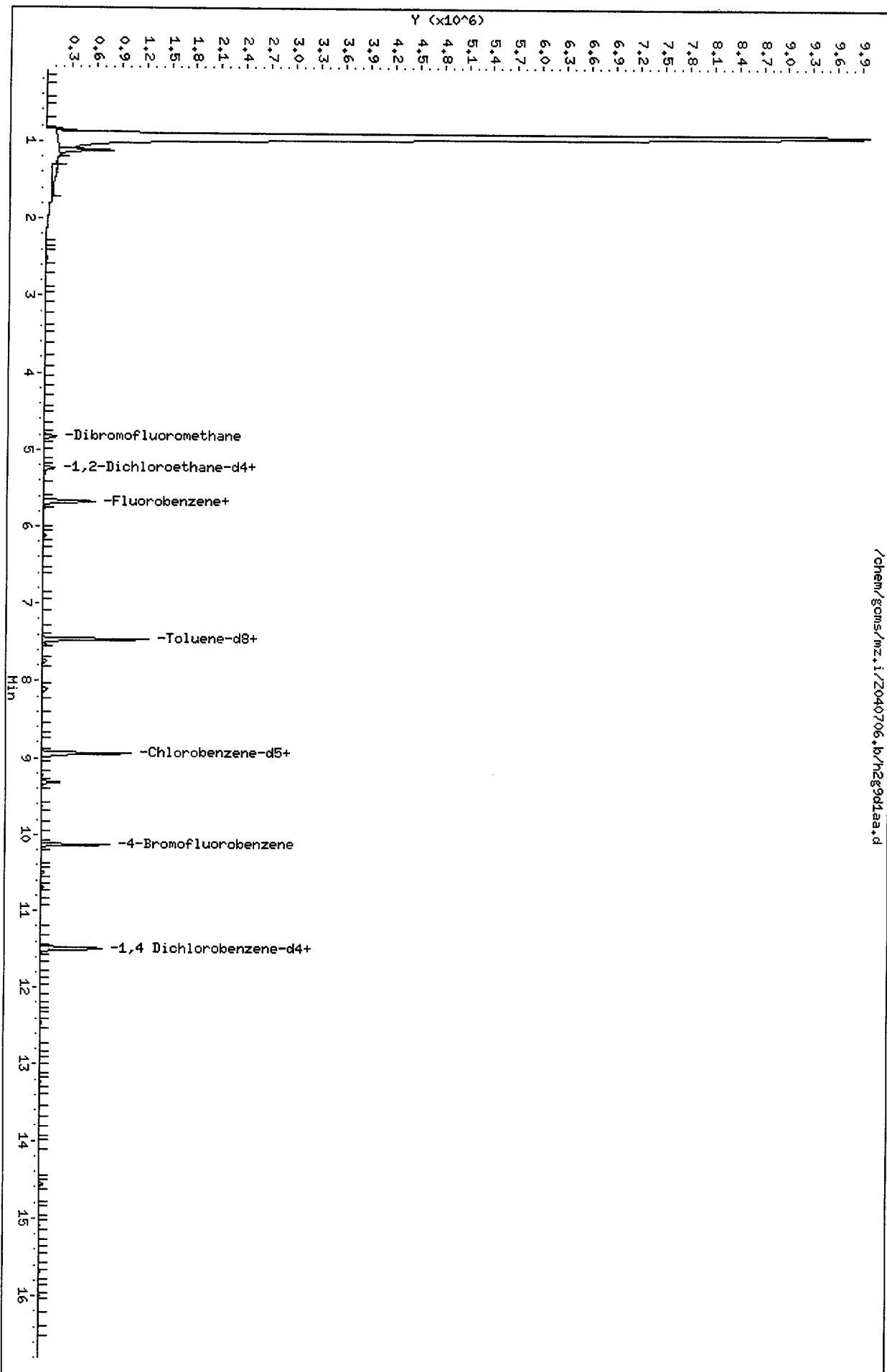
Sample Info: H2G9D1A0,1,0,,

Column phase: J+H 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,,

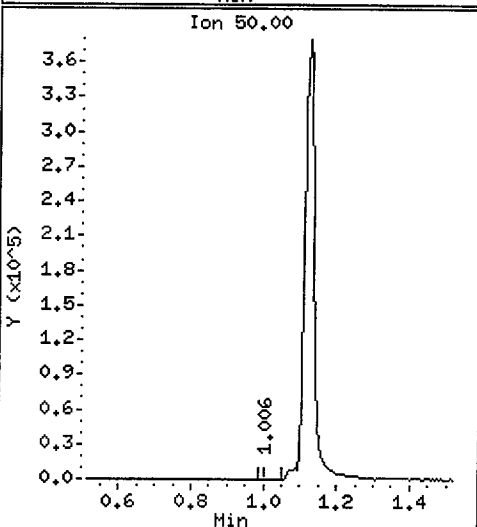
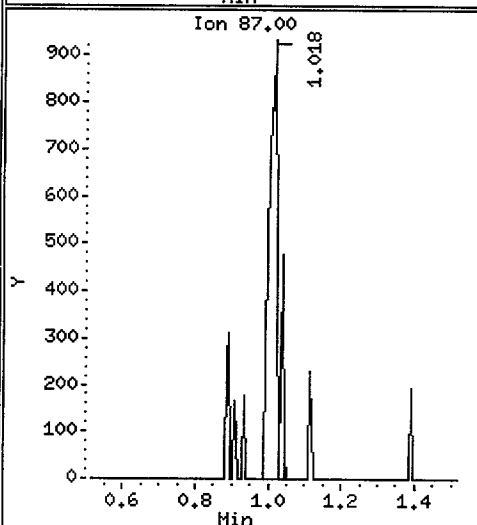
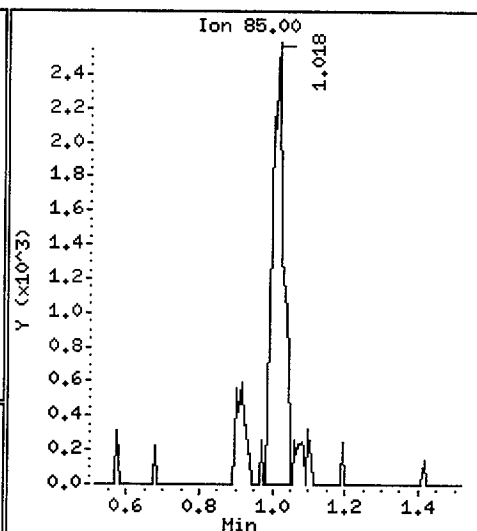
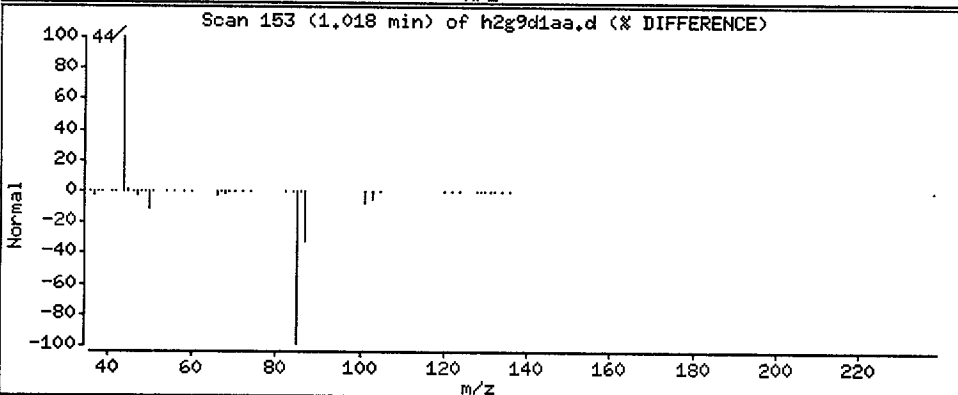
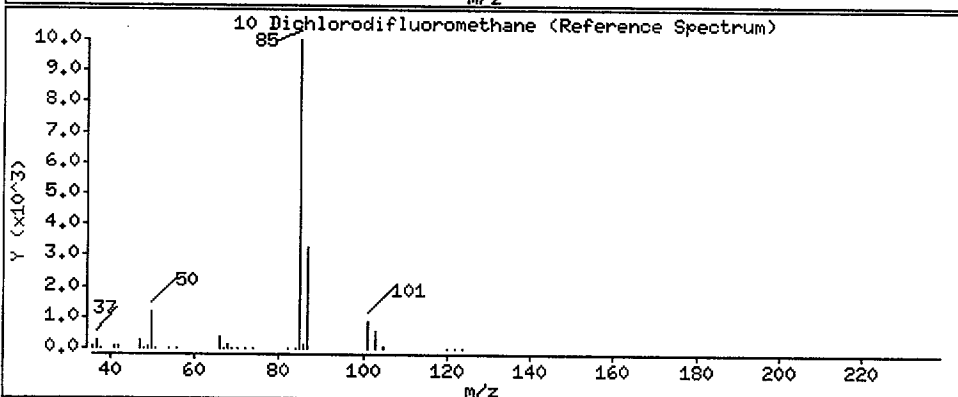
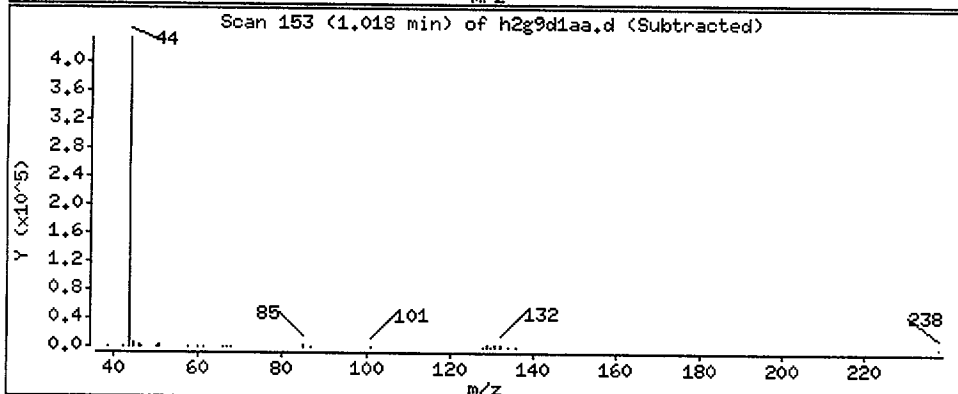
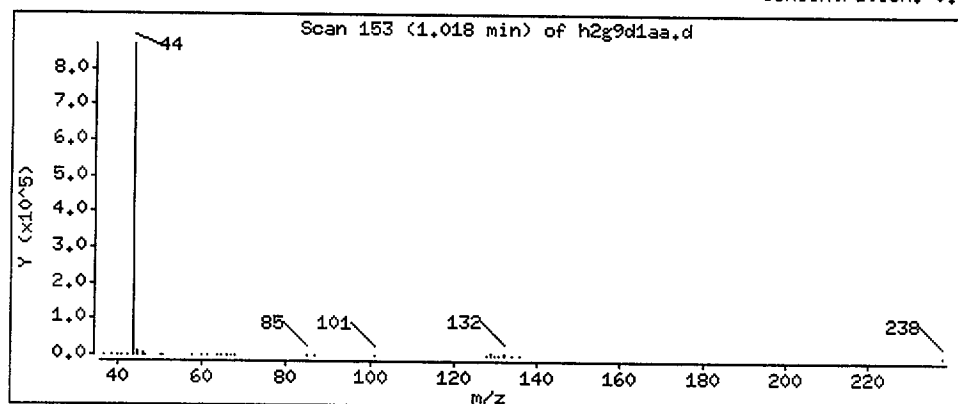
Operator: 22980

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,,

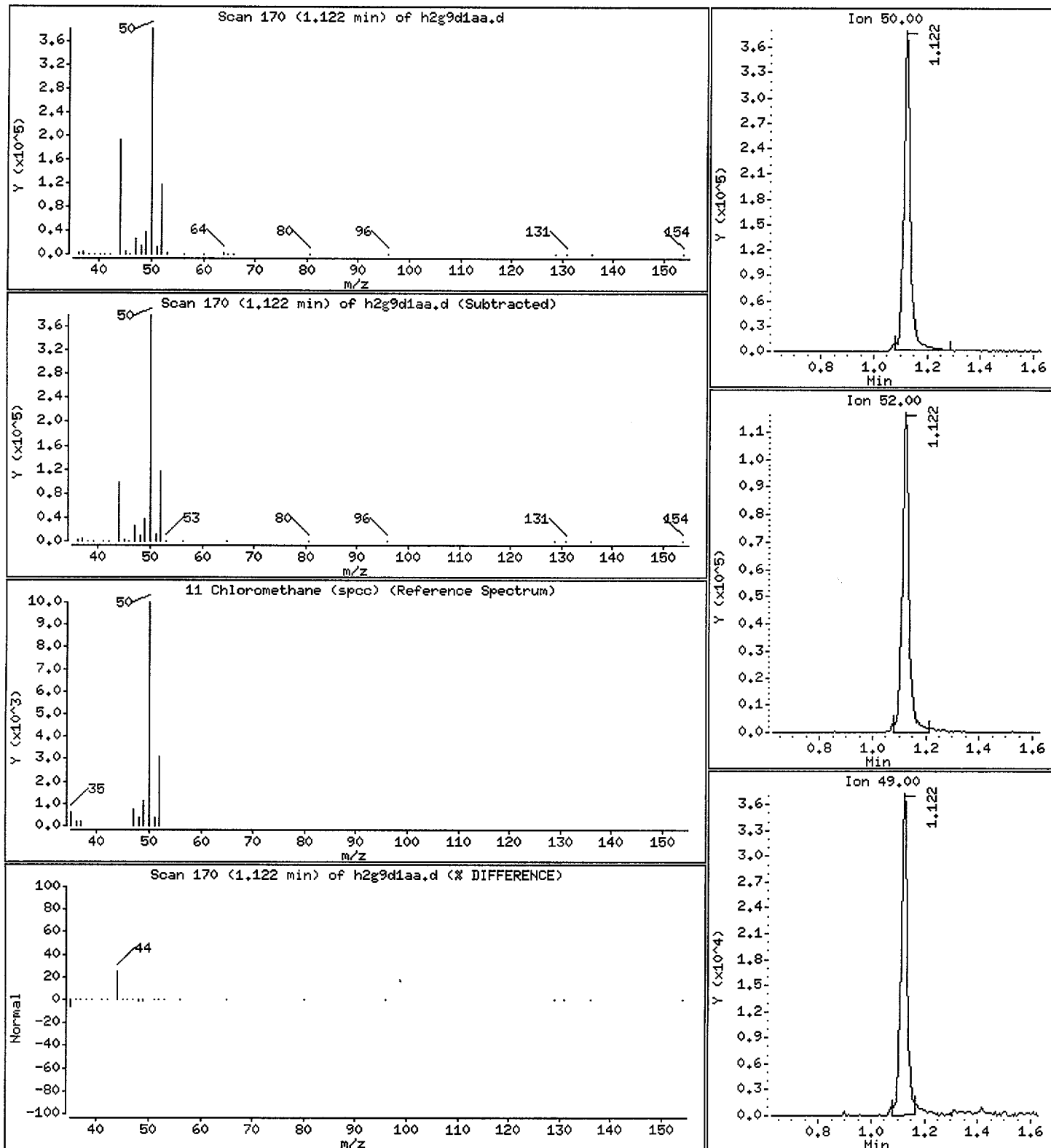
Operator: 22980

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: H2C9D1AA,1,0,,

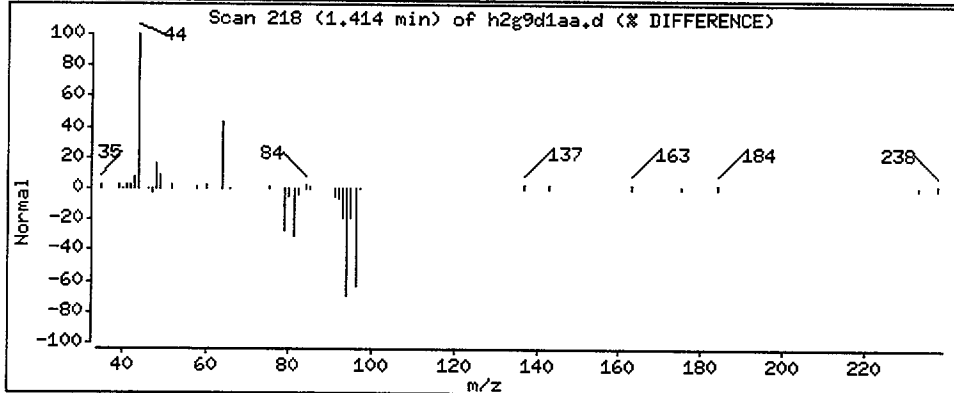
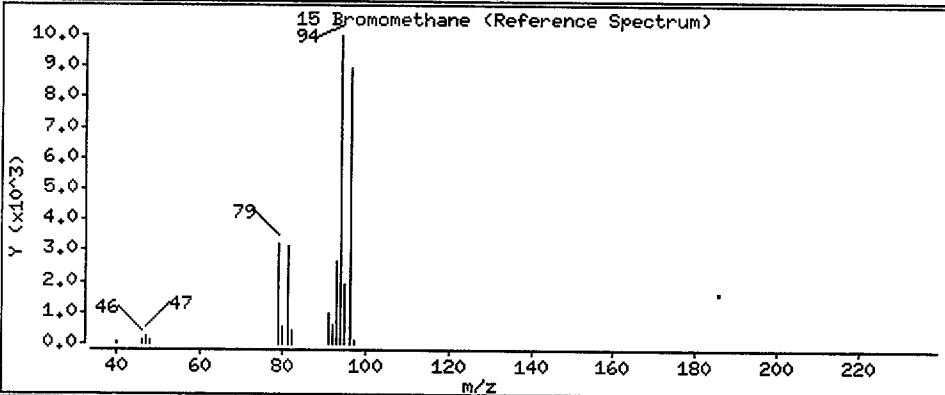
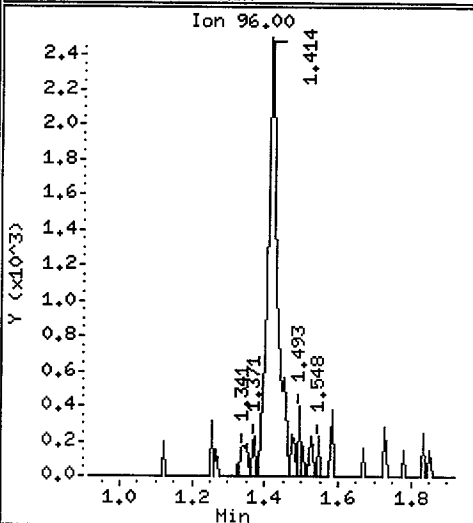
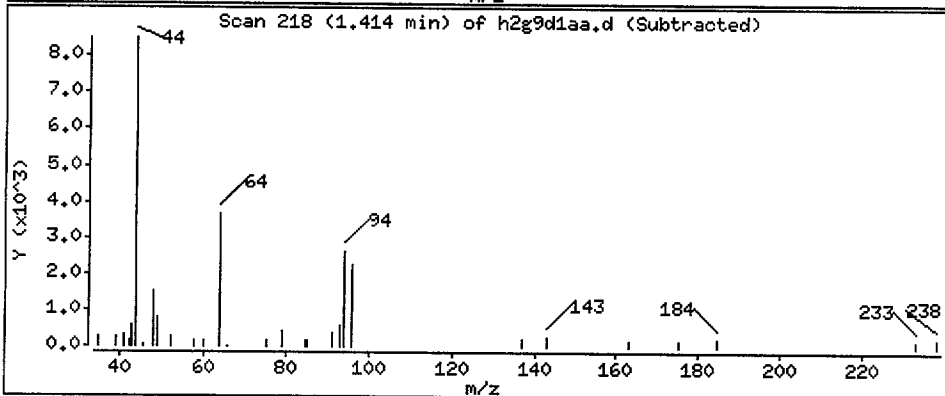
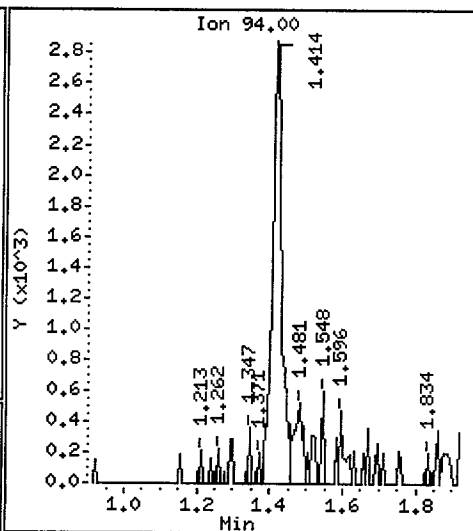
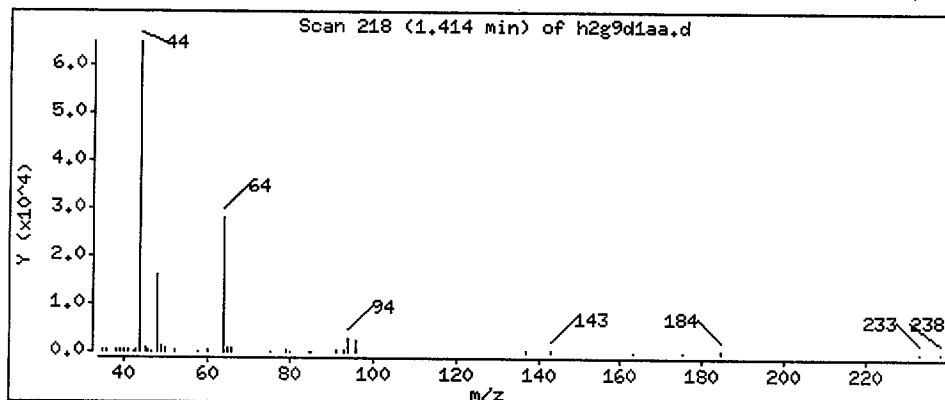
Operator: 22980

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,,

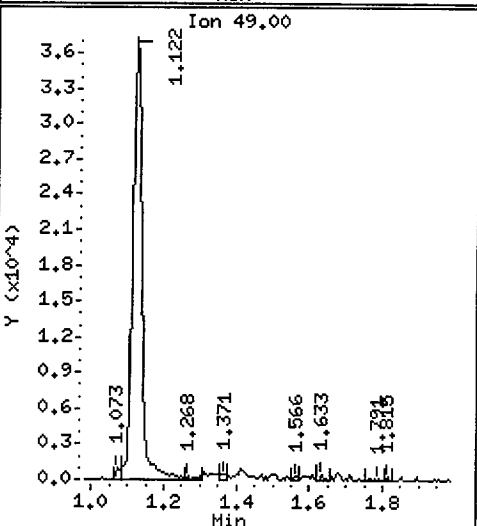
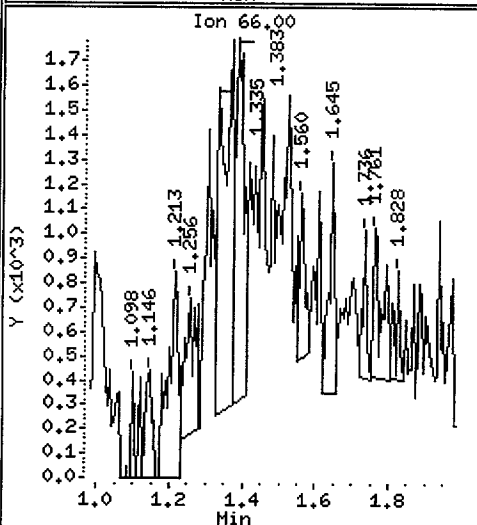
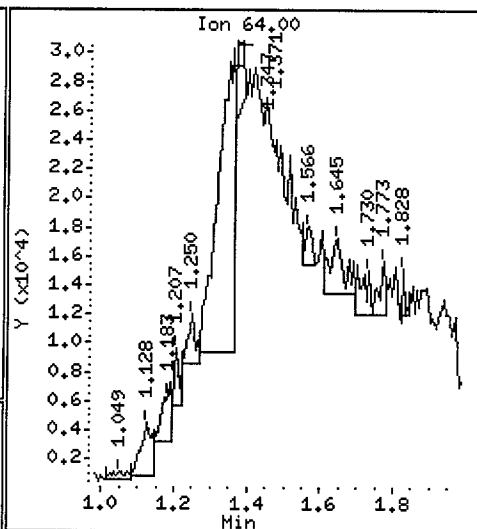
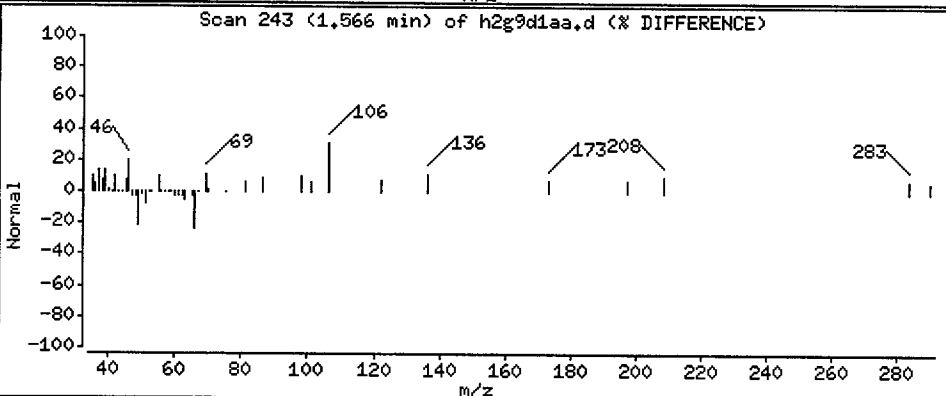
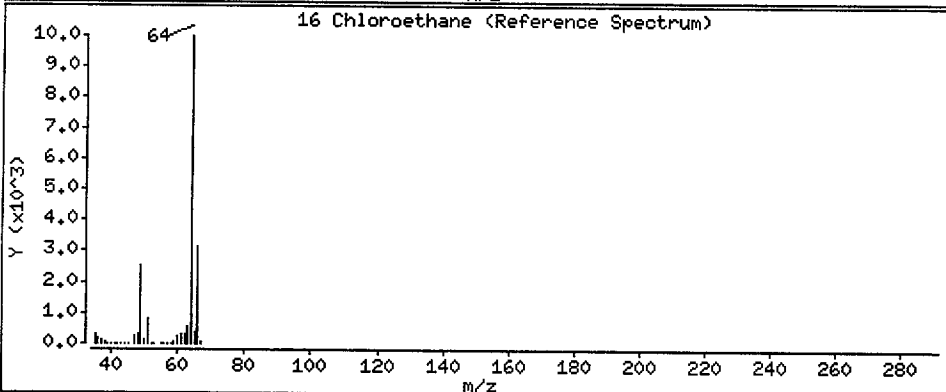
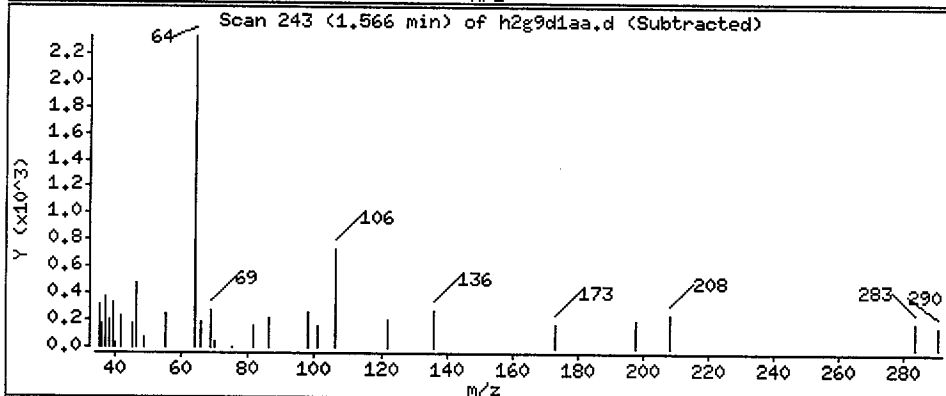
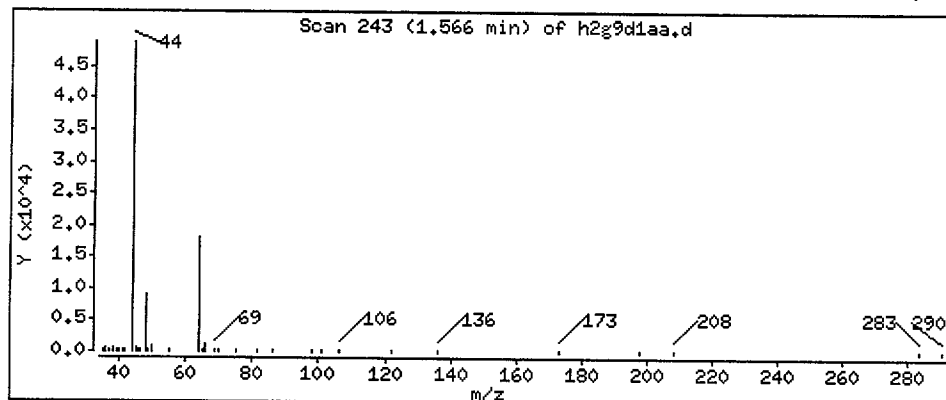
Operator: 22980

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,,

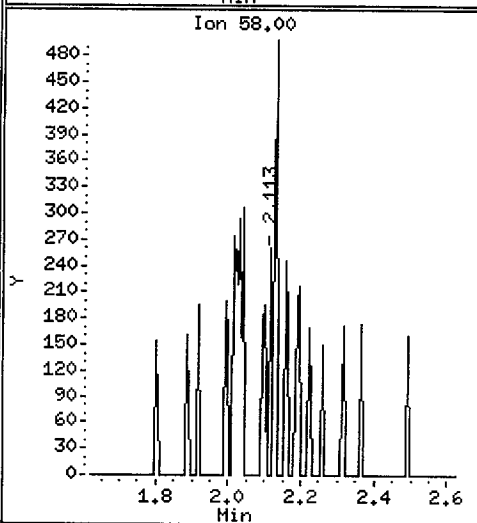
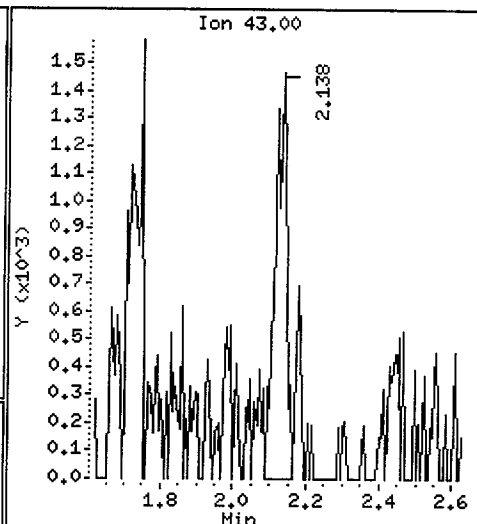
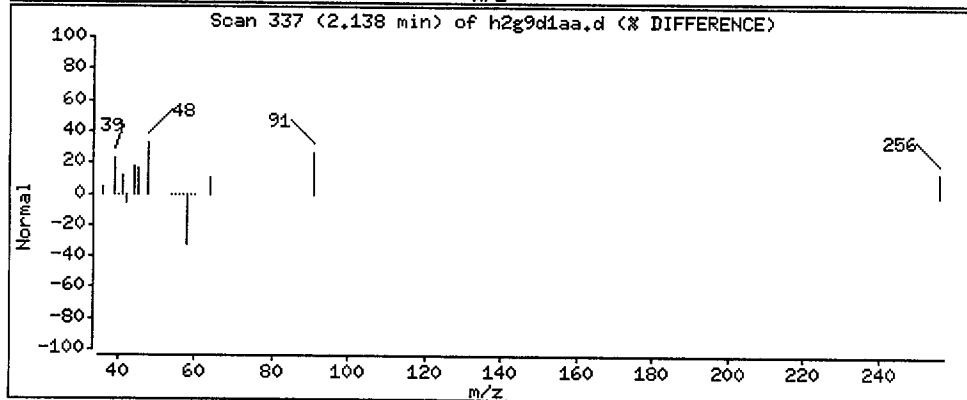
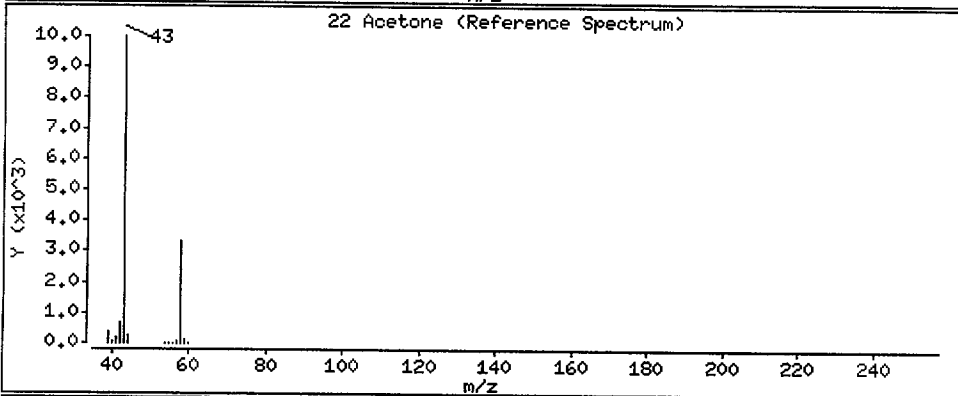
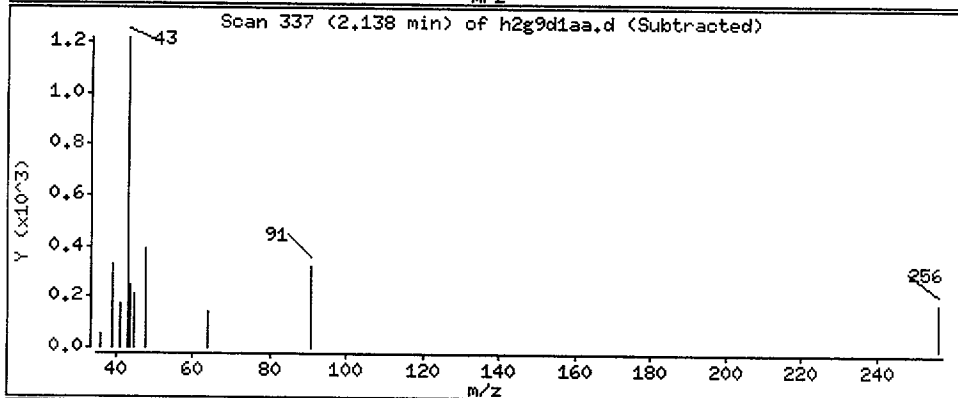
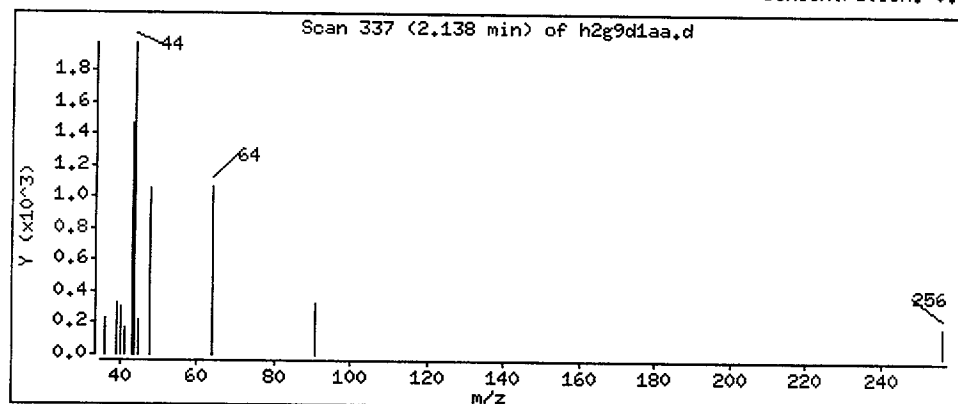
Column phase: J+W 624

Operator: 22980

Column diameter: 0.18

Concentration: 0.10411 ug

22 Acetone



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,,

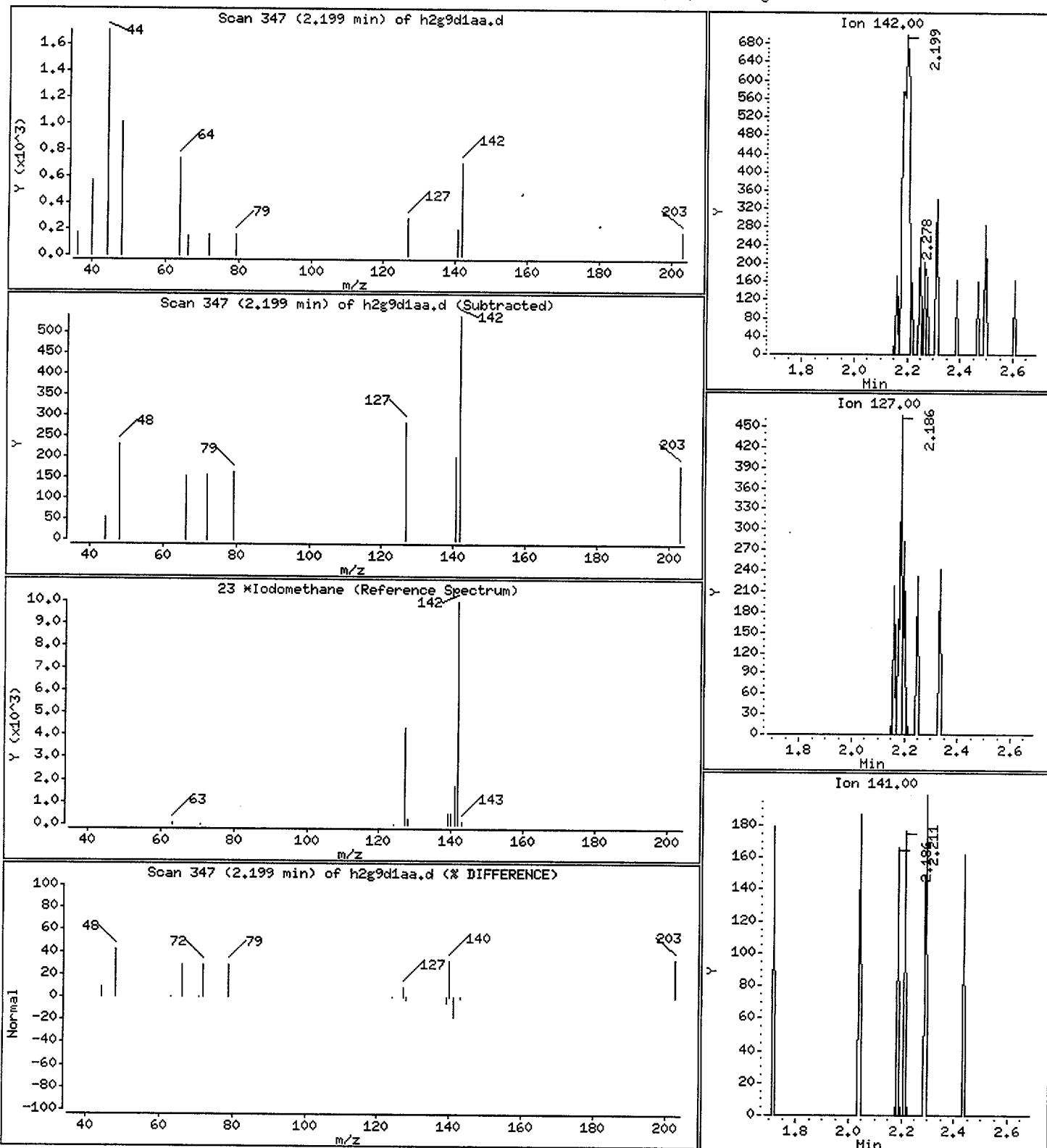
Operator: 22980

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,,

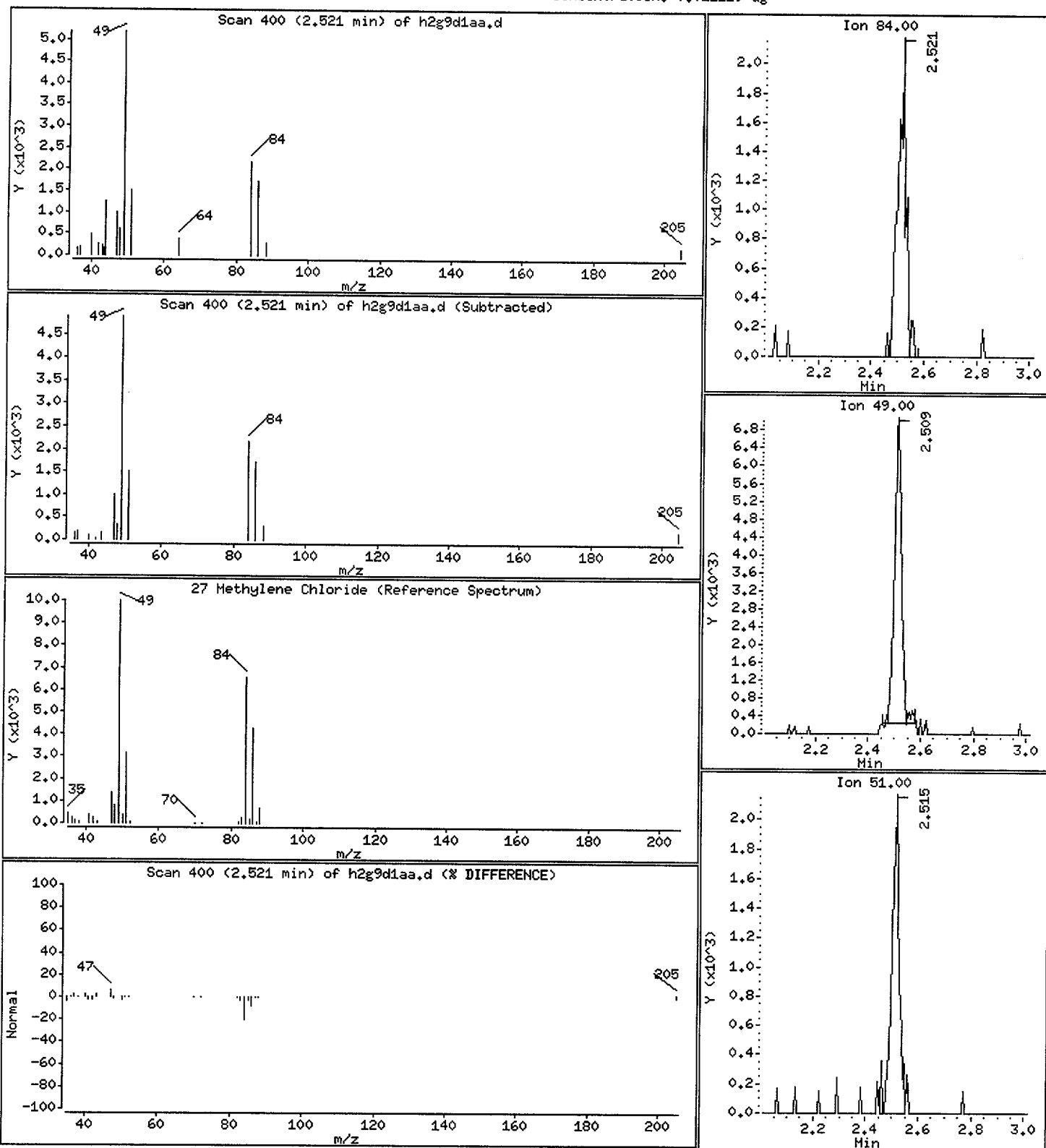
Operator: 22980

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,,

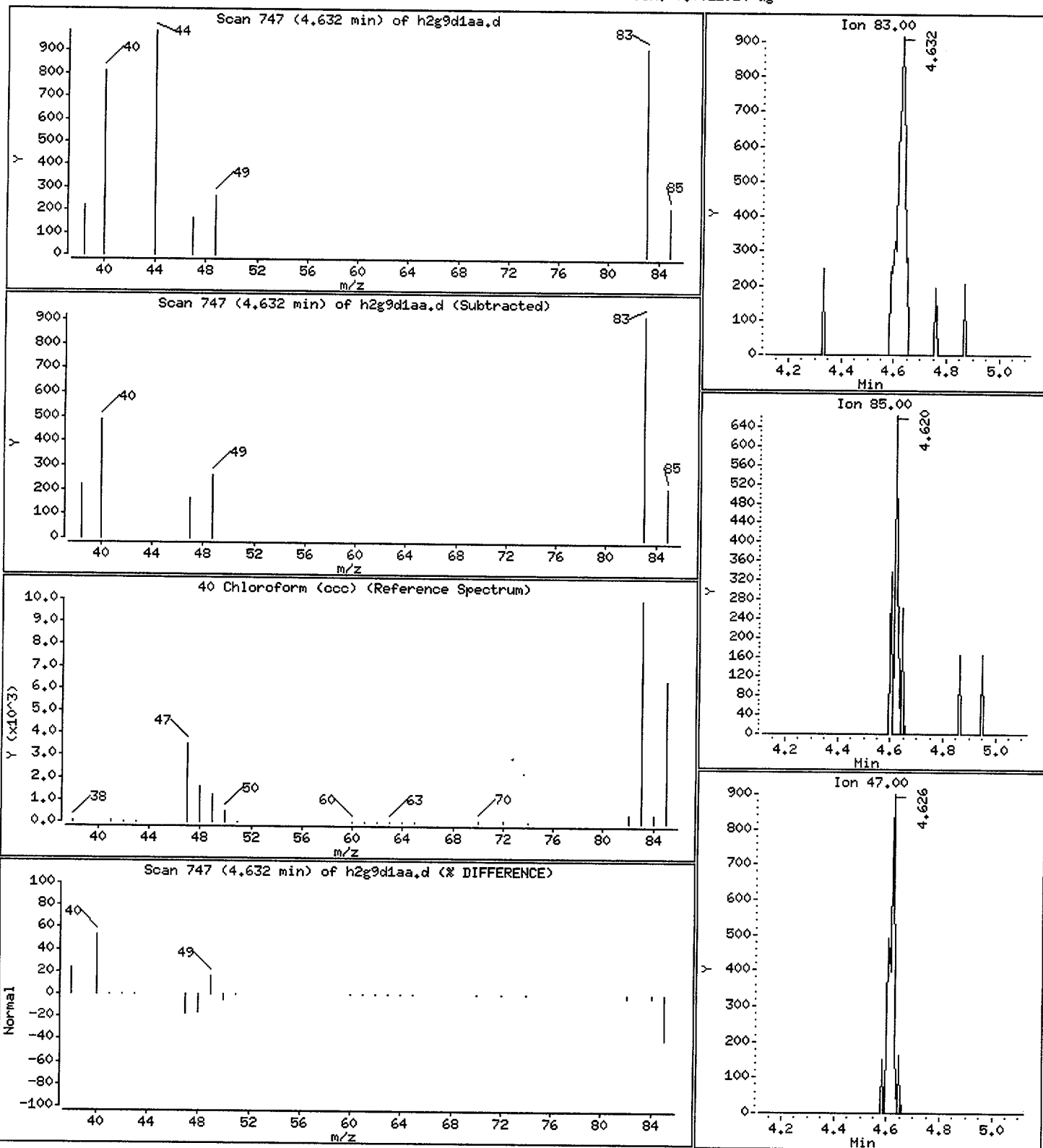
Operator: 22980

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,,

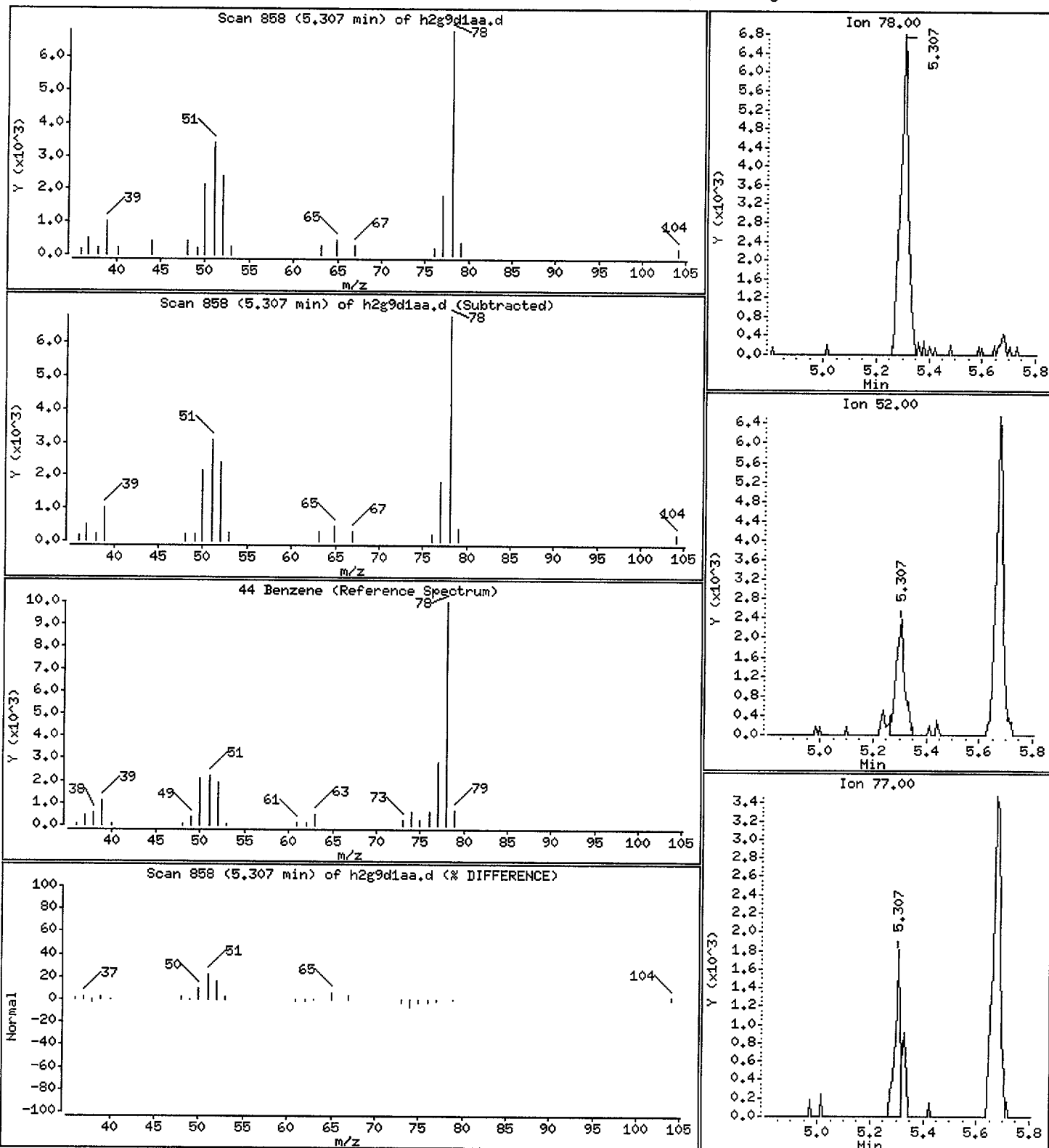
Operator: 22980

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,,

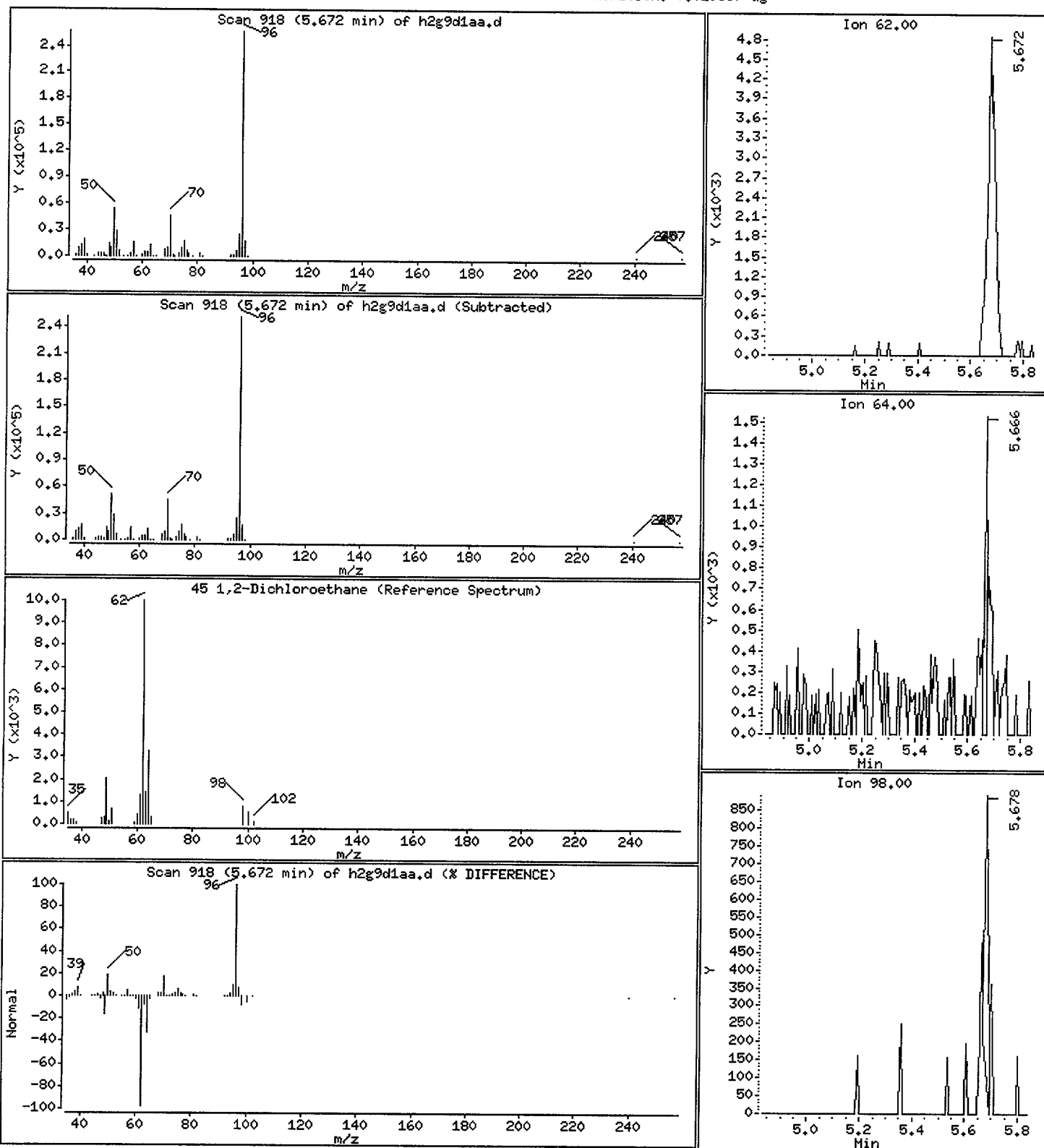
Operator: 22980

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: H2C9D1AA,1,0,,

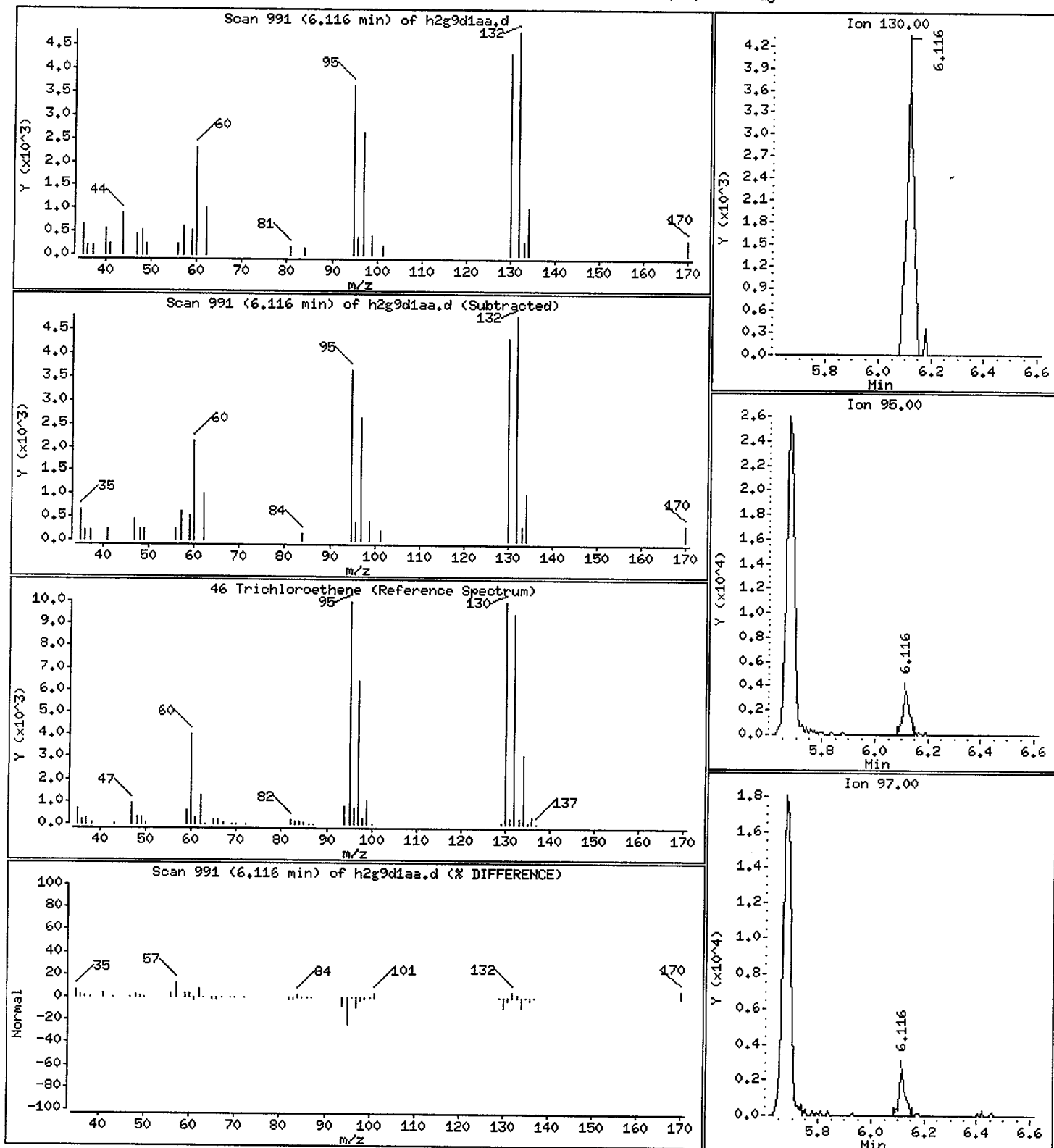
Operator: 22980

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,,

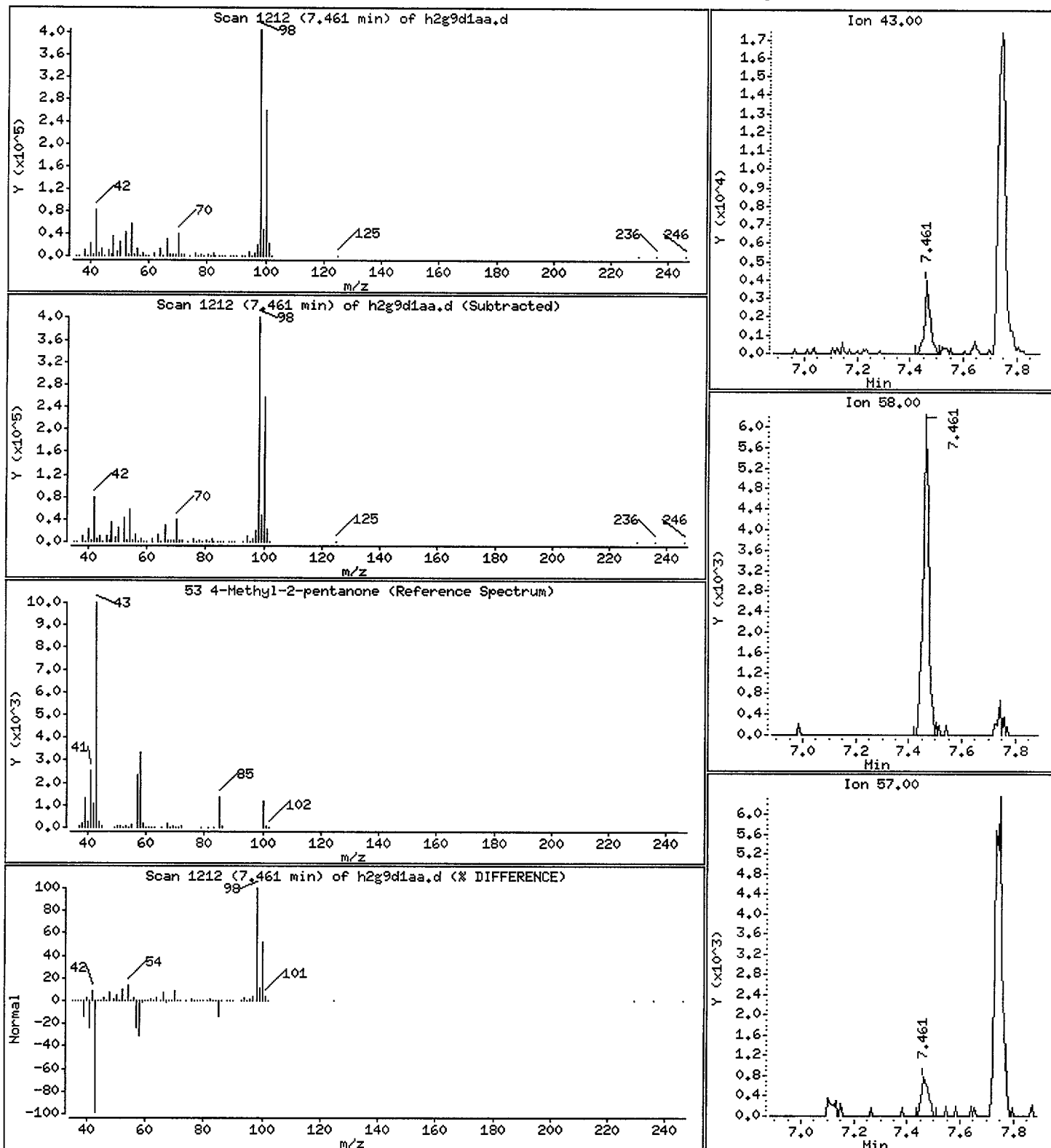
Operator: 22980

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,,

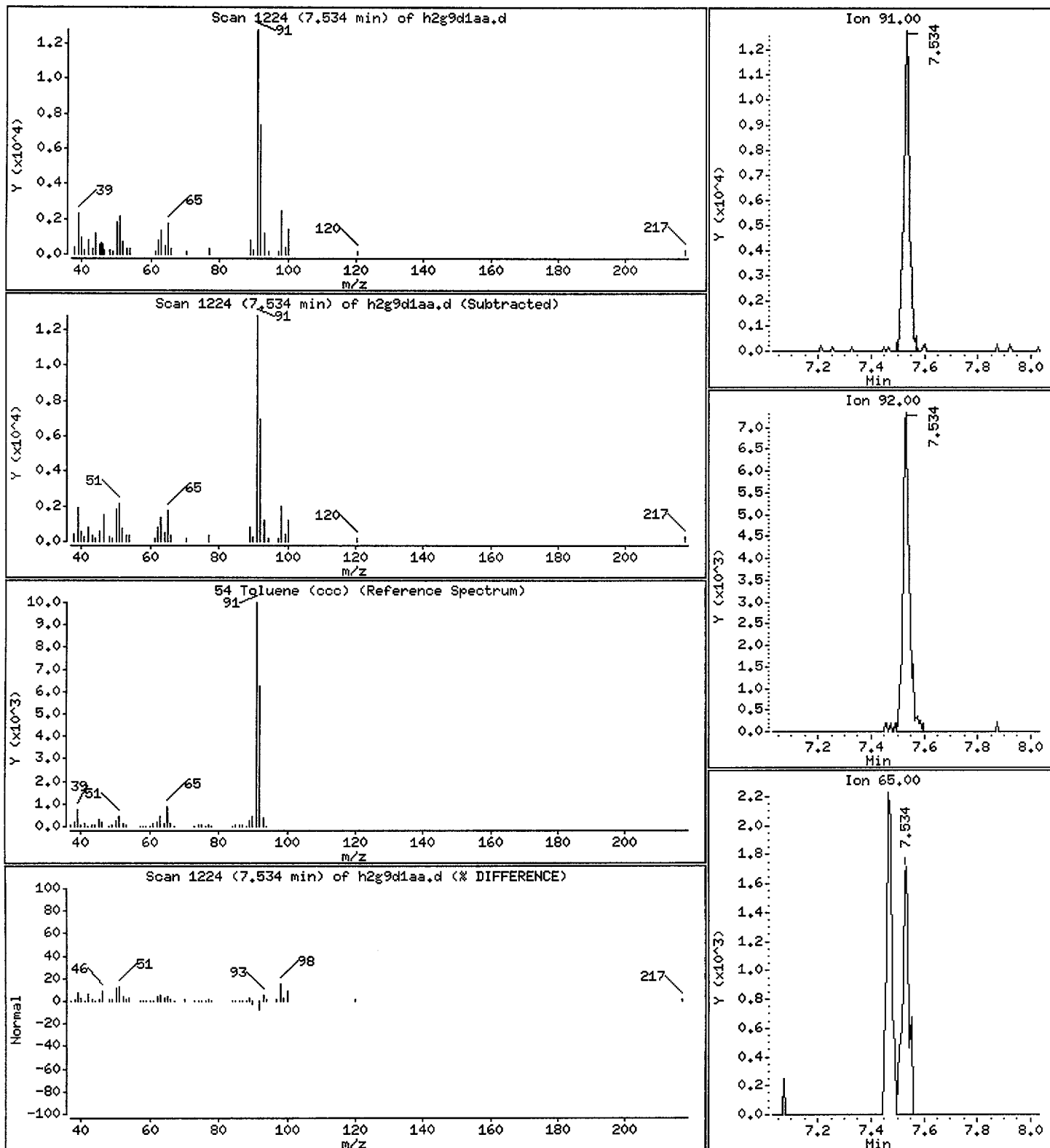
Operator: 22980

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,,

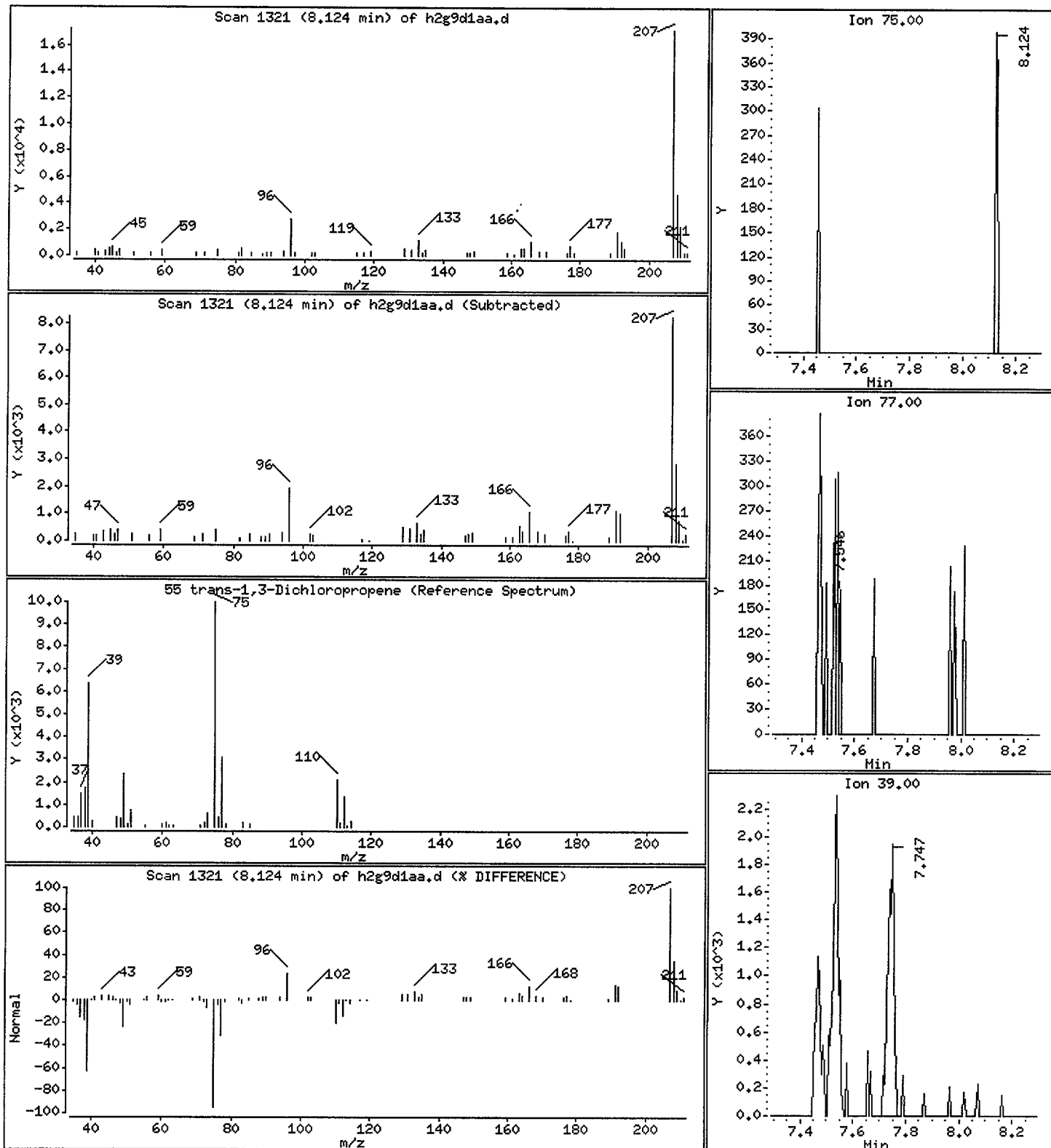
Operator: 22980

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,,

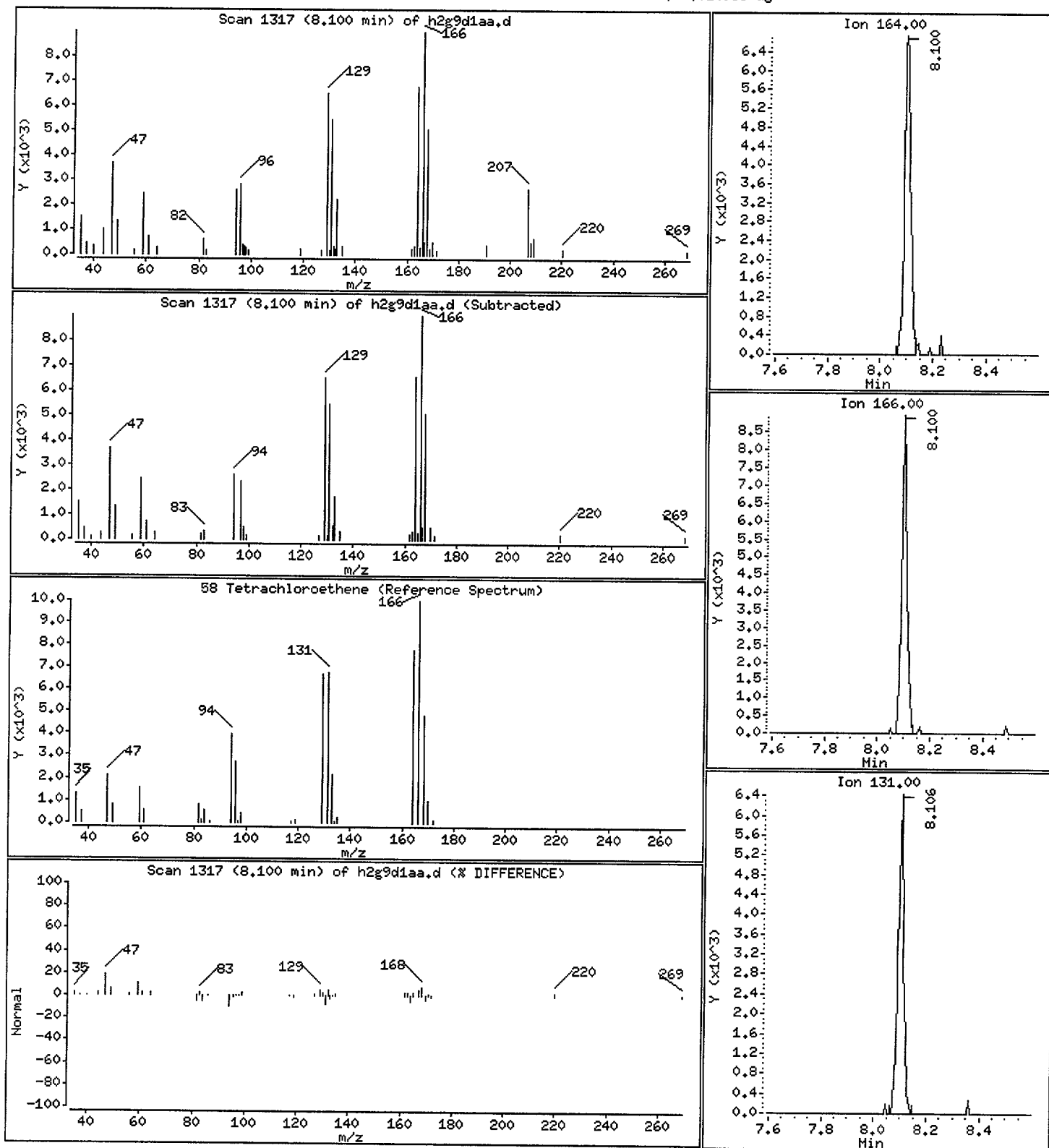
Operator: 22980

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,,

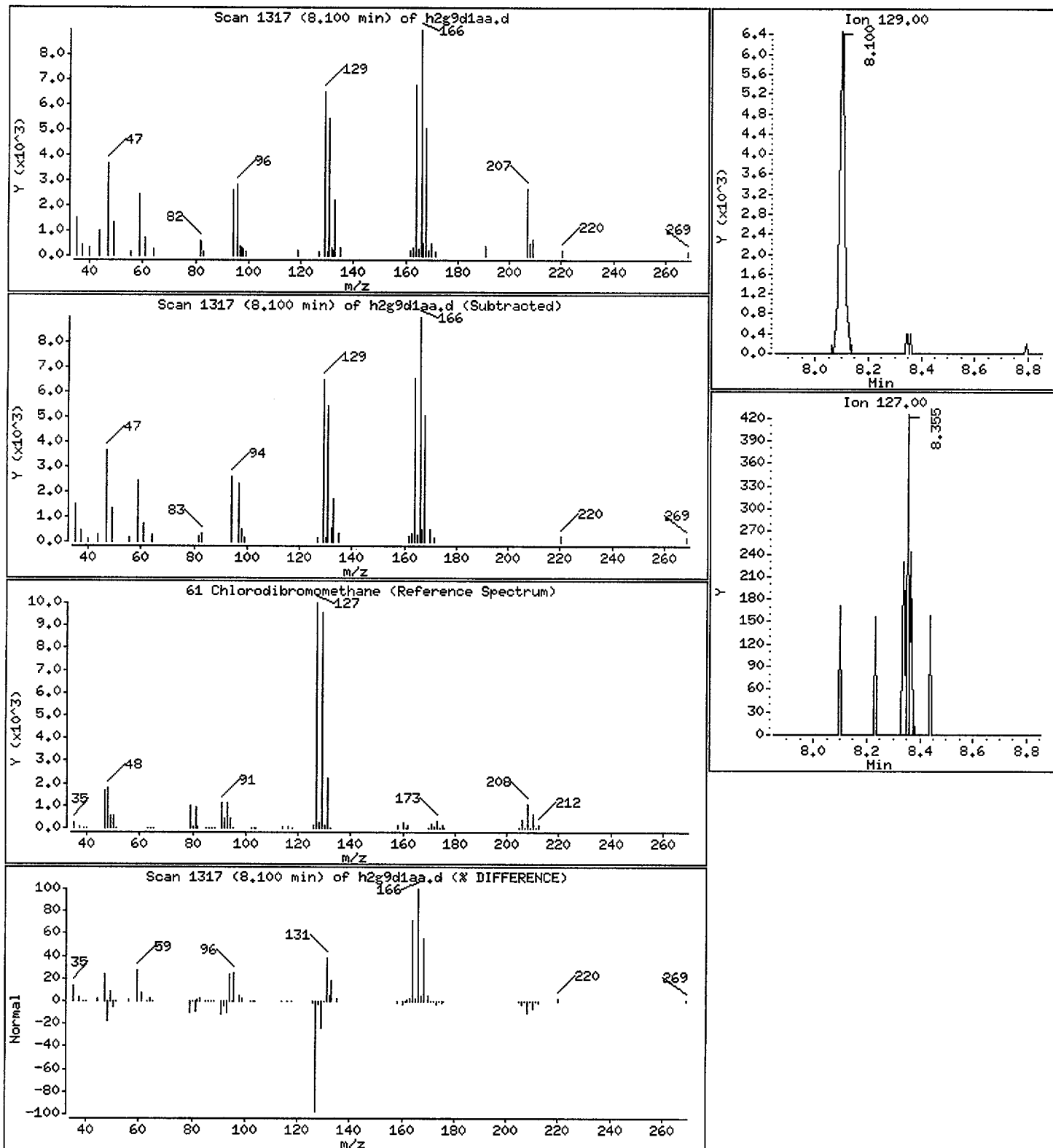
Operator: 22980

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,,

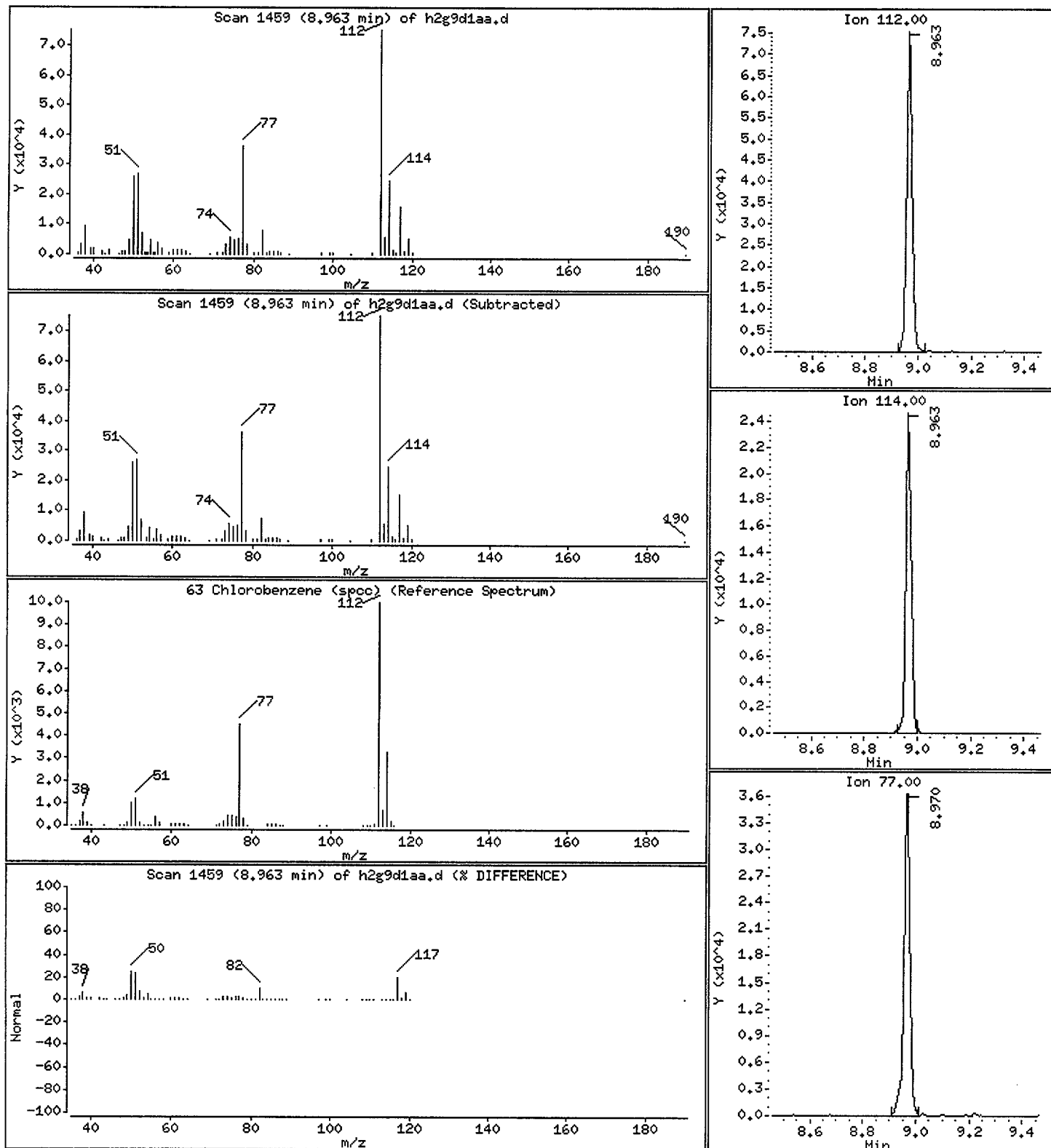
Operator: 22980

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,,

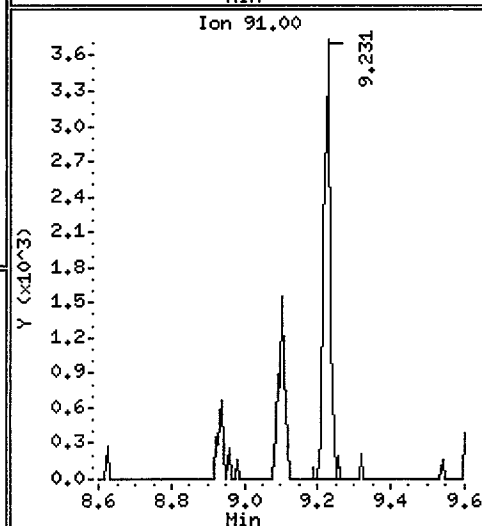
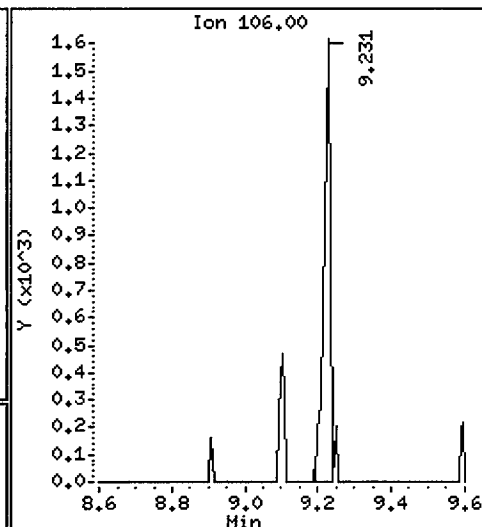
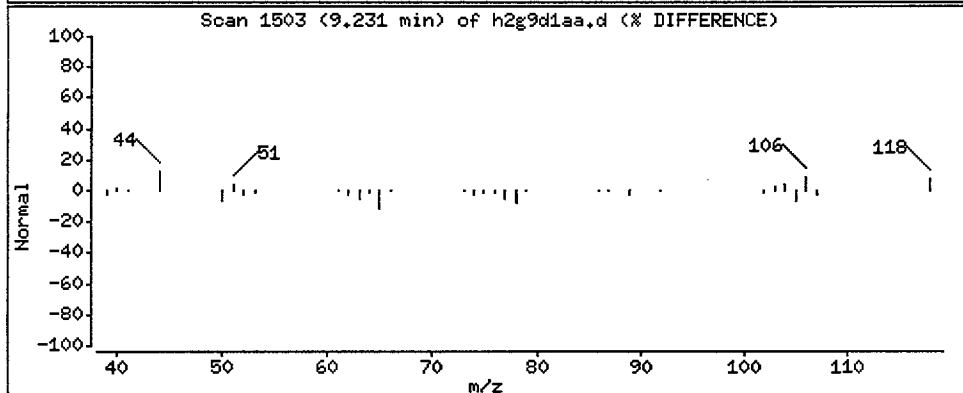
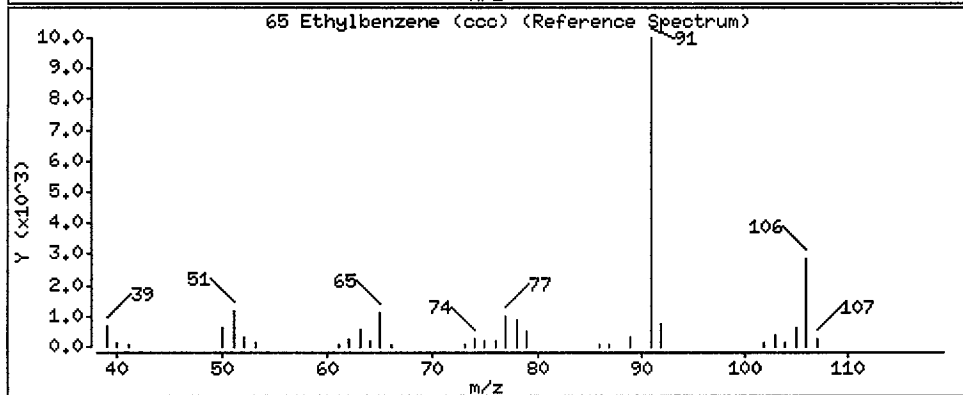
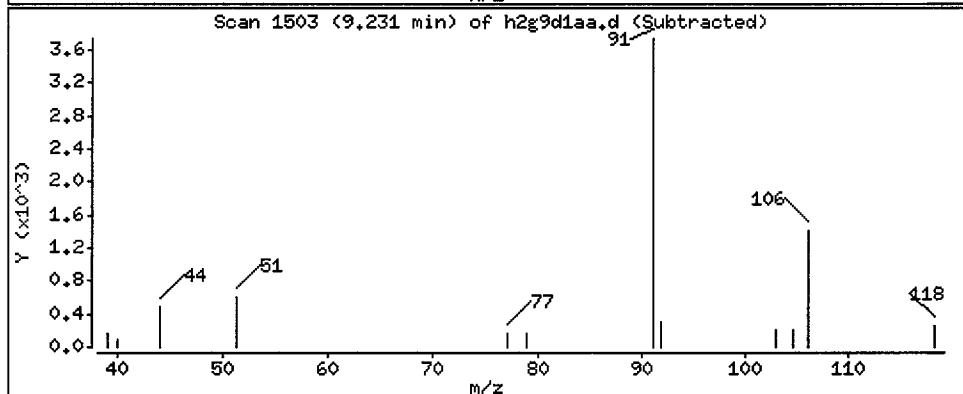
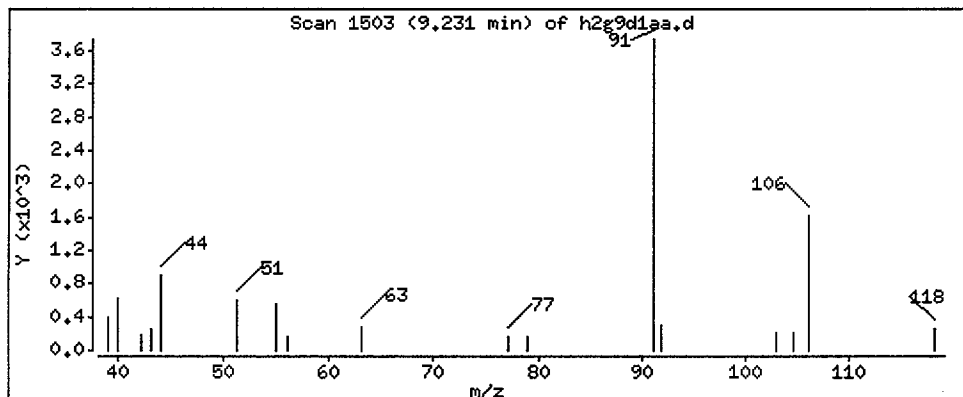
Operator: 22980

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,,

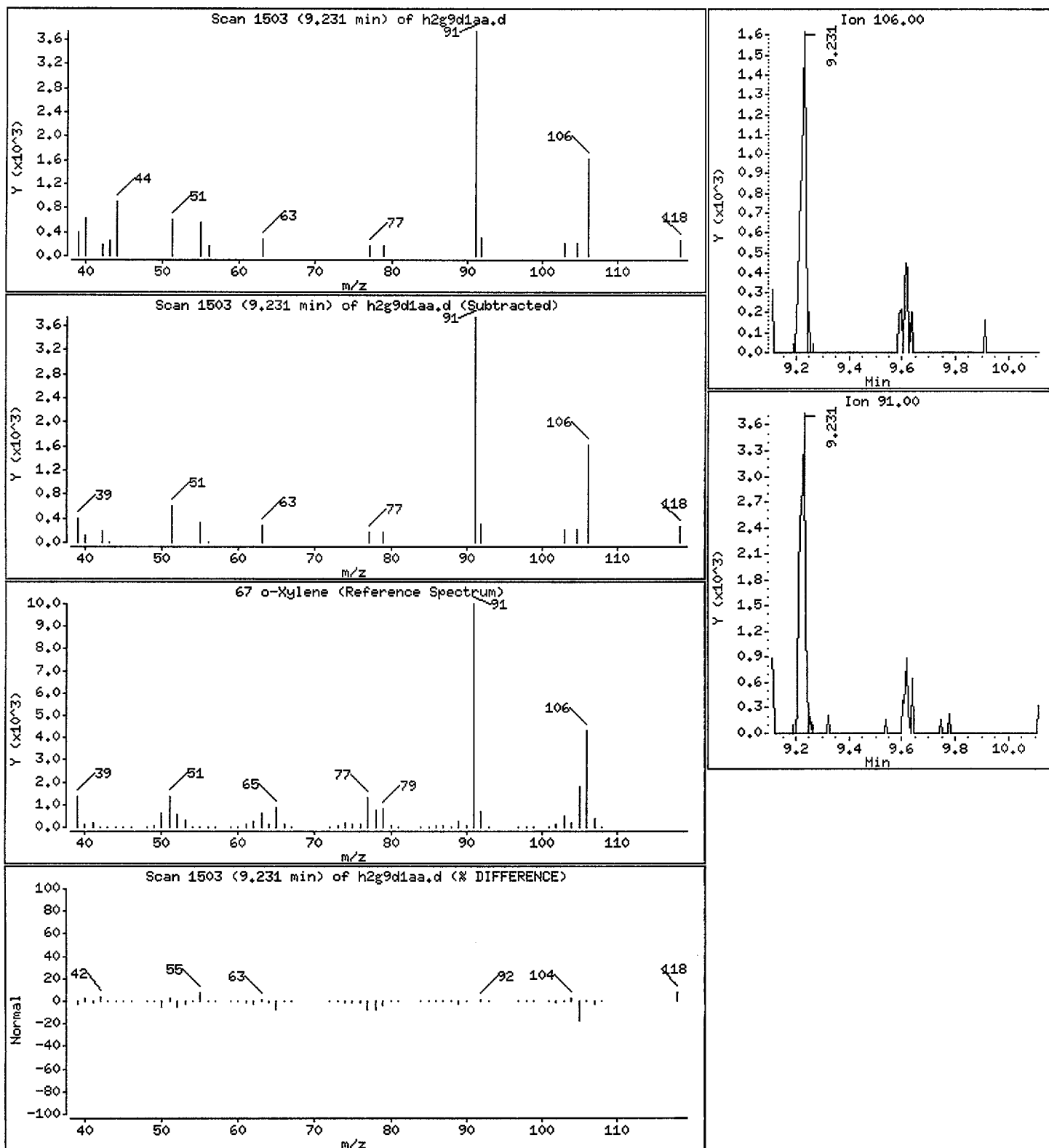
Operator: 22980

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,,

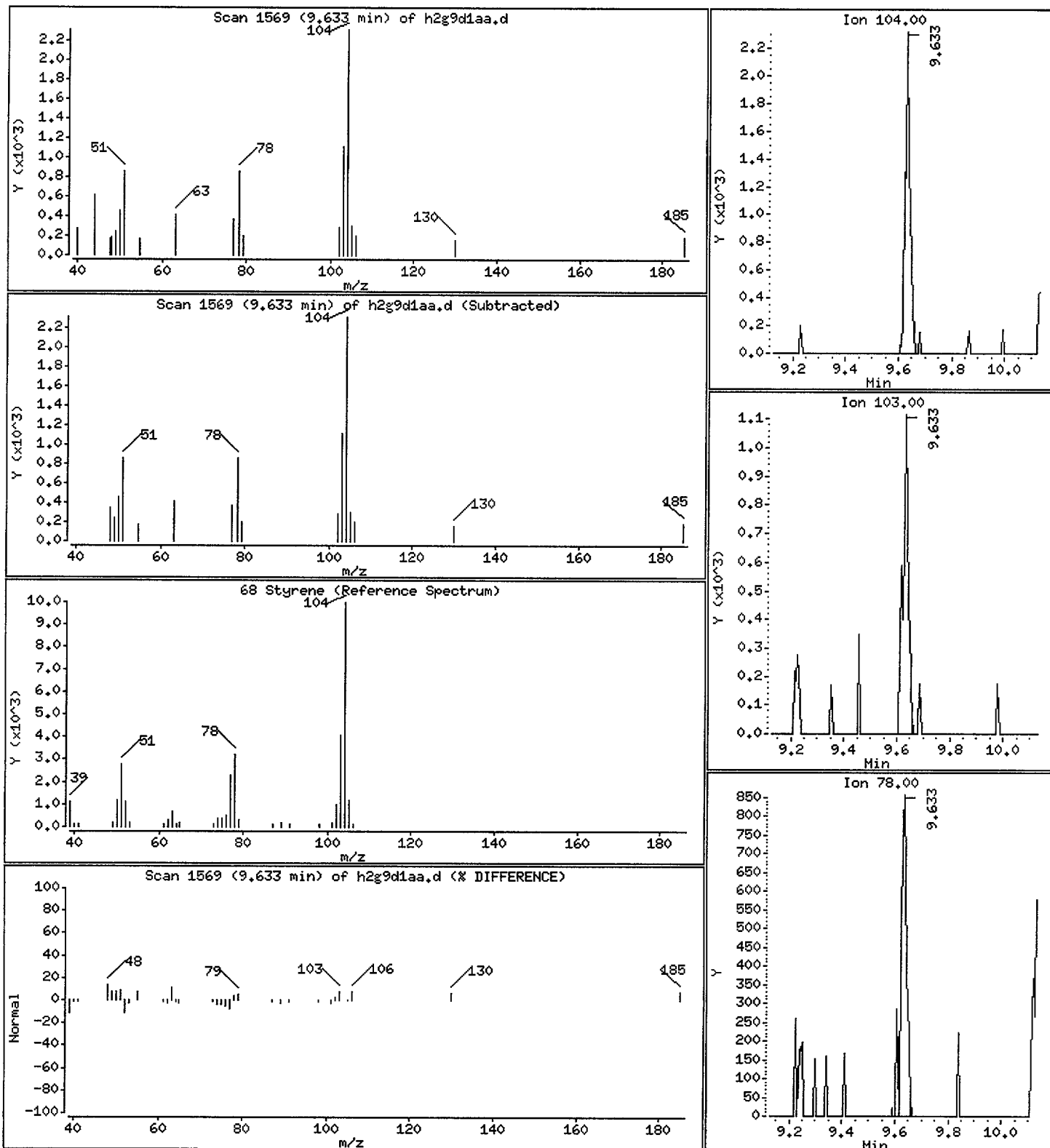
Operator: 22980

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,,

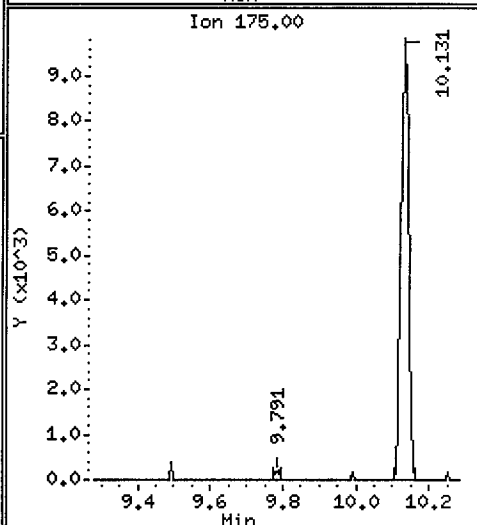
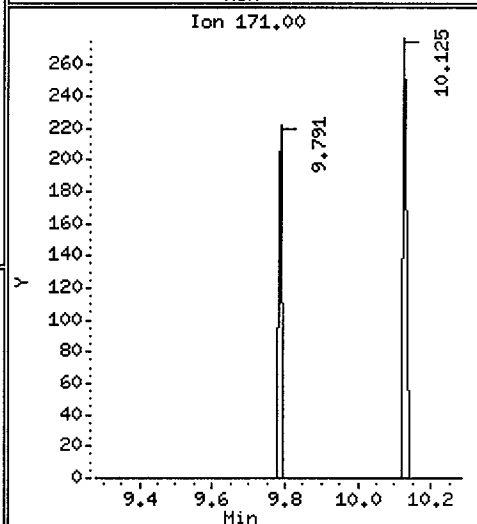
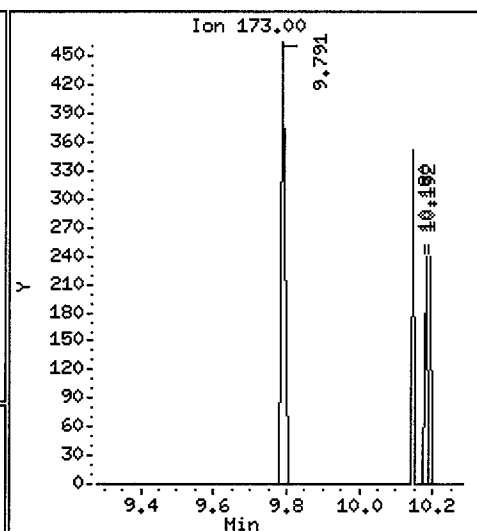
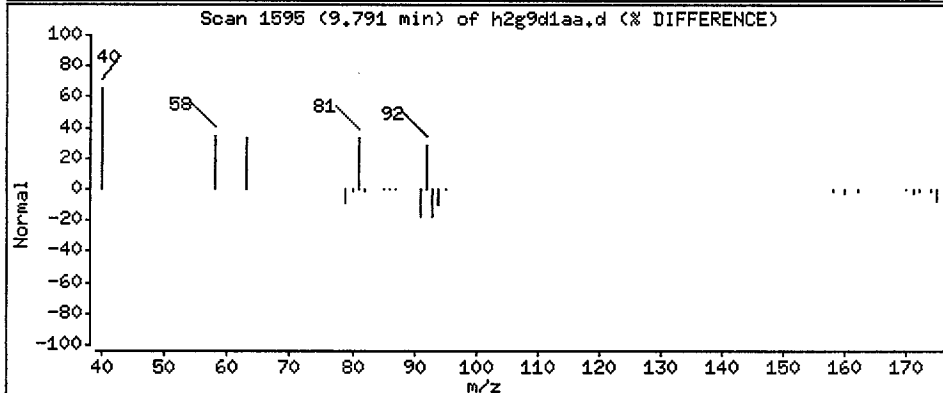
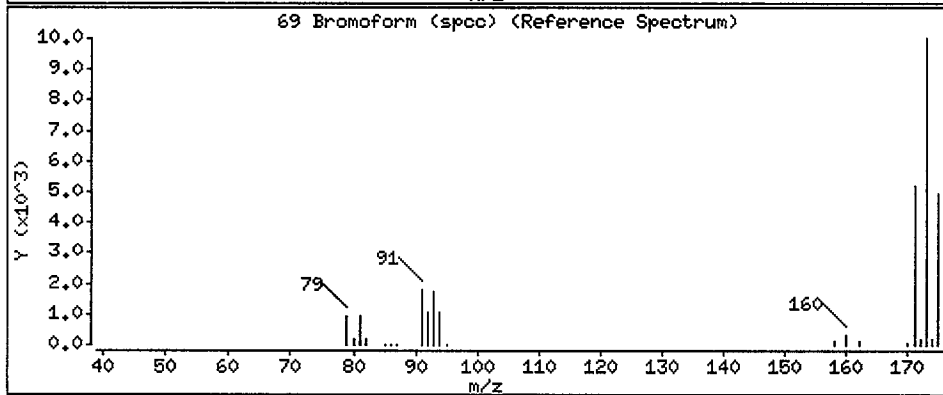
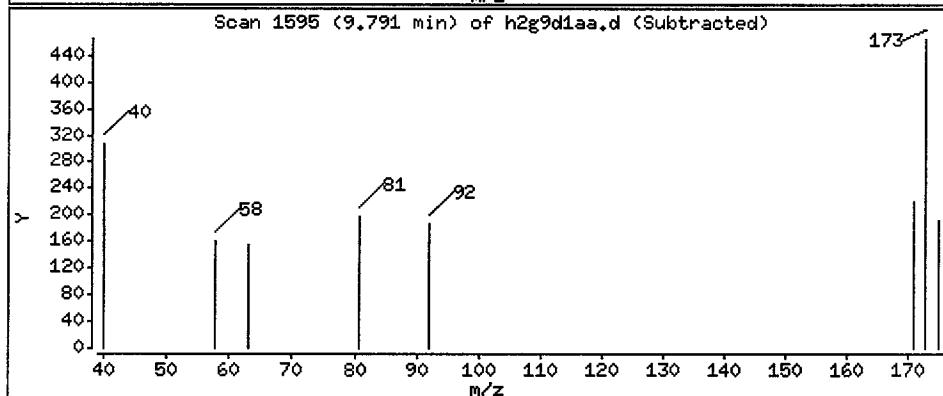
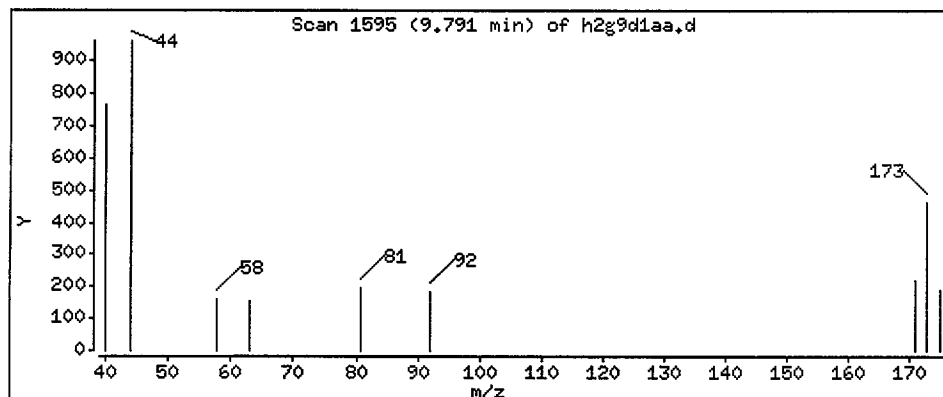
Operator: 22980

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,,

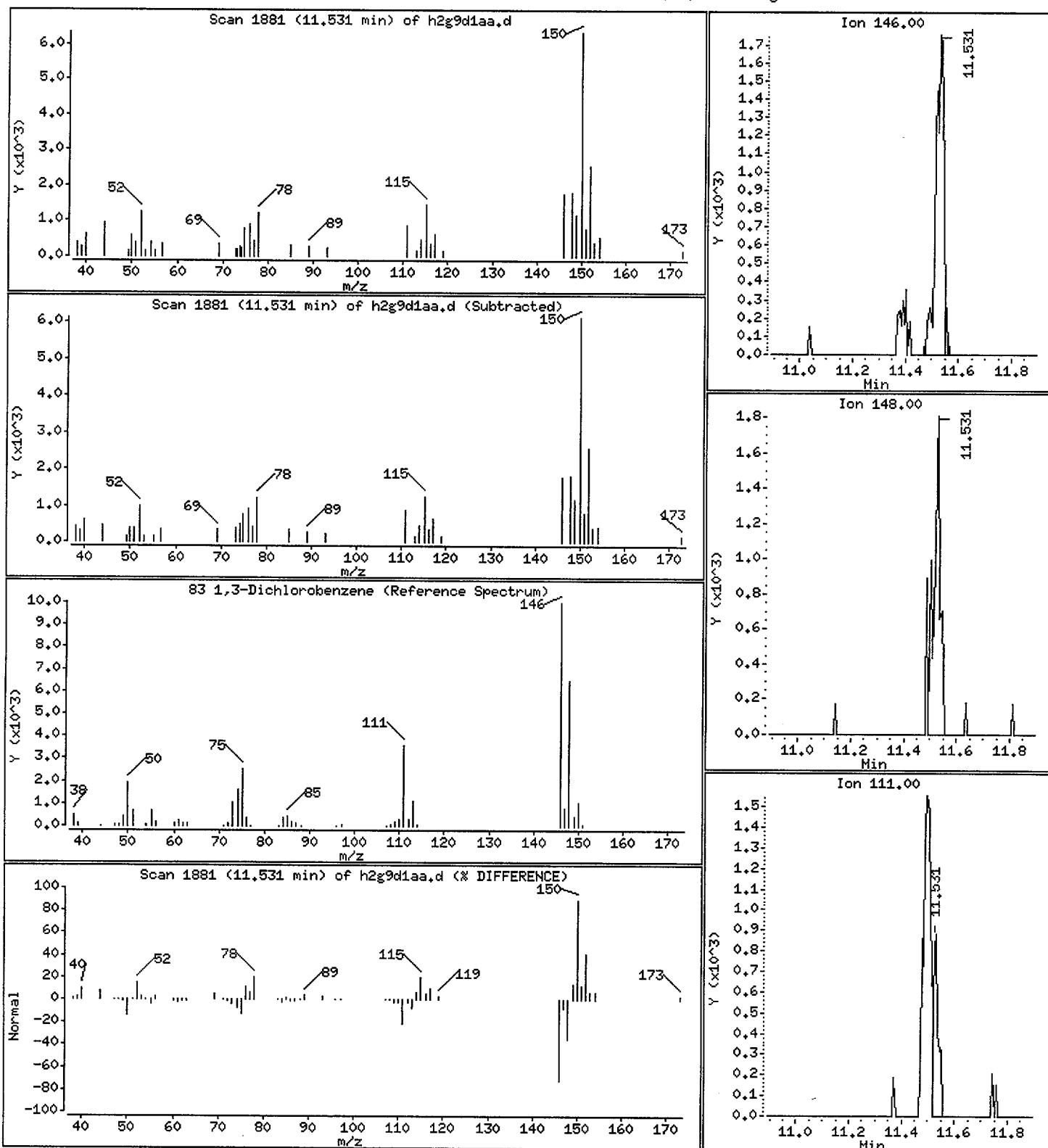
Operator: 22980

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,,

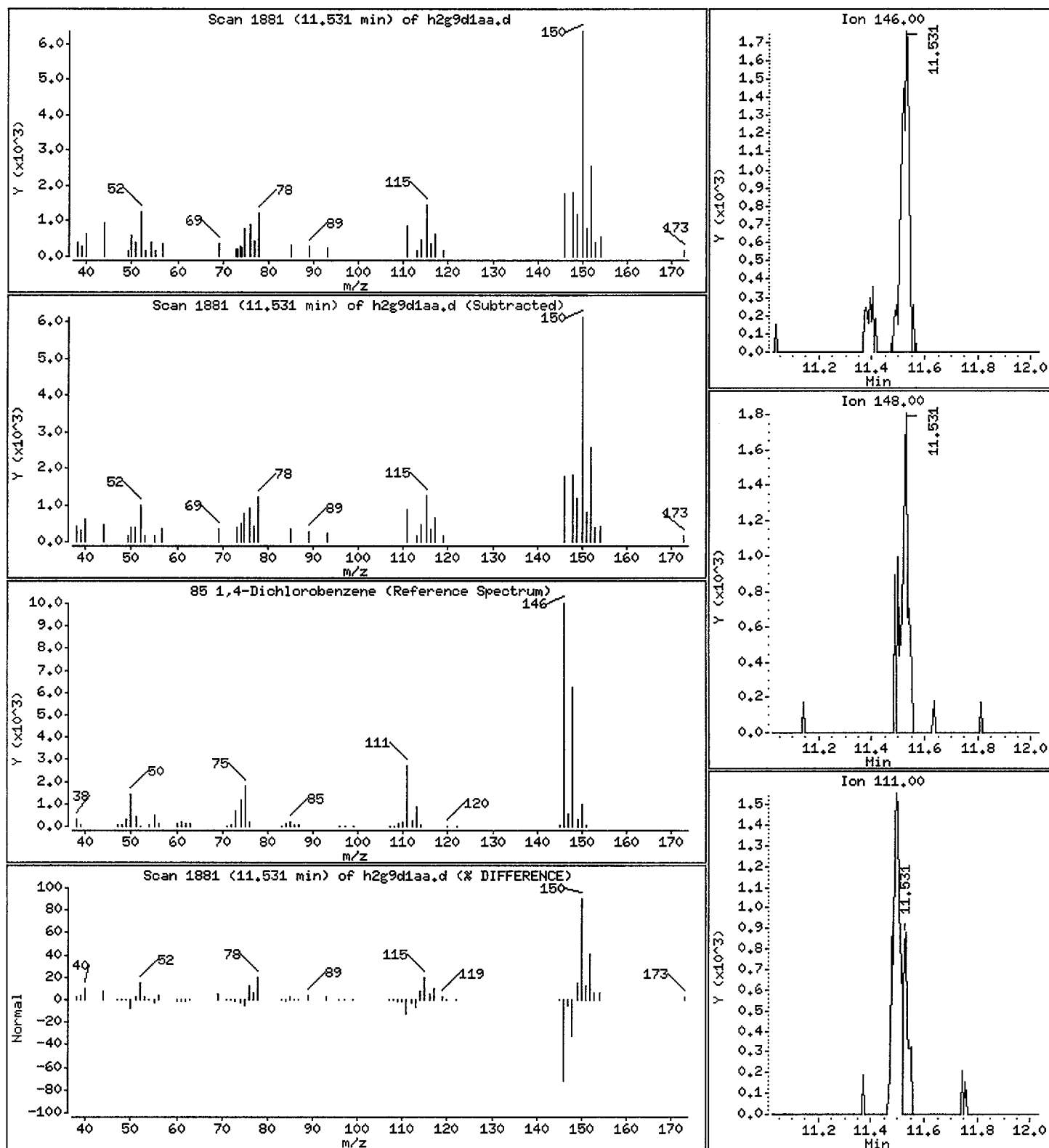
Operator: 22980

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	NIST05.1	74	1
Propane, 1-isocyanato-2-methyl-					CAS #: 1873-29-6		
9.316	220979	2.05481197	0.051370	62	NIST05.1	3441	2

Handwritten: NW 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

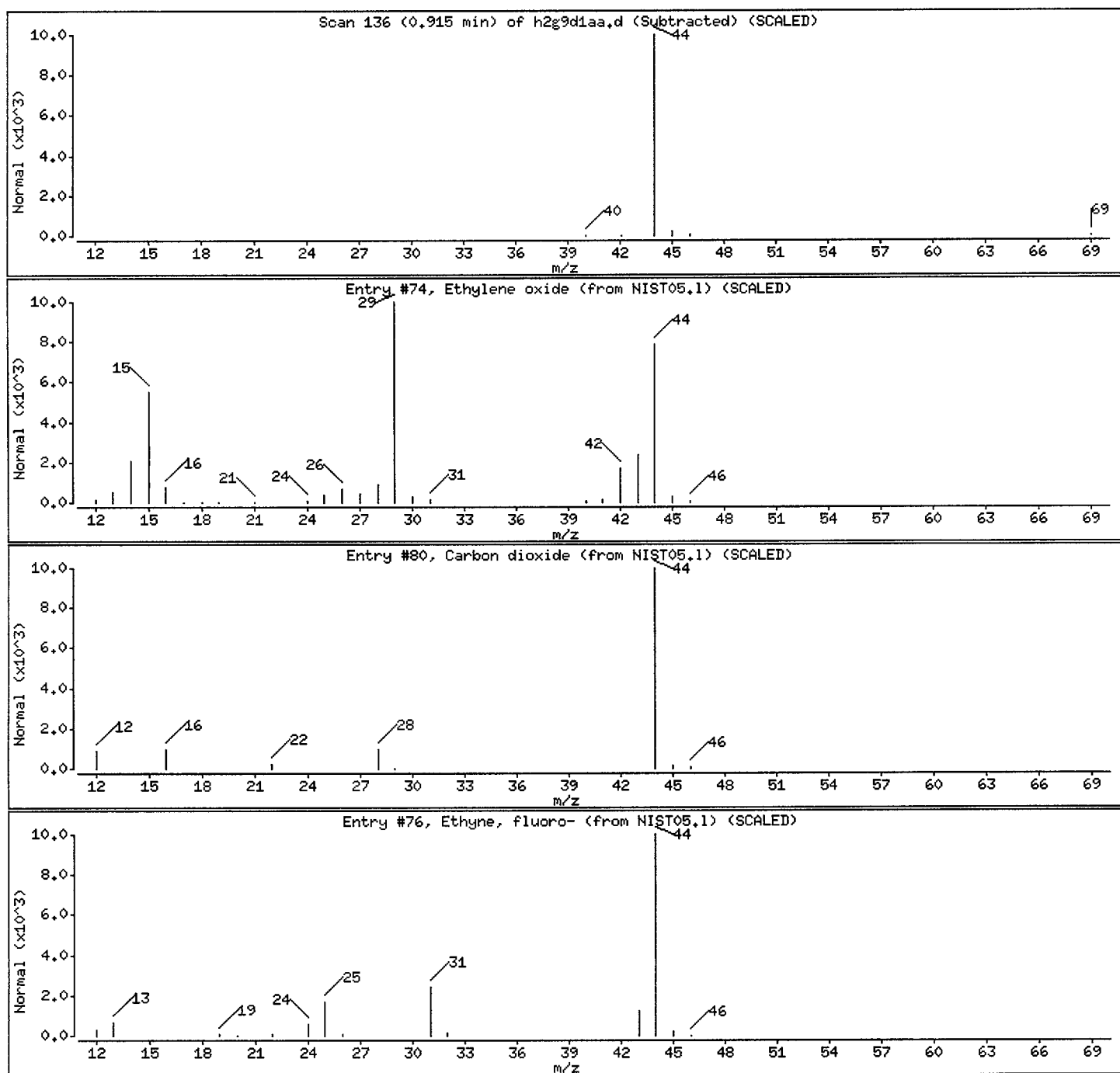
Sample Info: H2G9D1AA,1,0,,

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/2040706.b/h2g9d1aa.d

Date : 07-APR-2006 17:31

Client ID: G-2913-R1-VOST PAIR

Instrument: mz.i

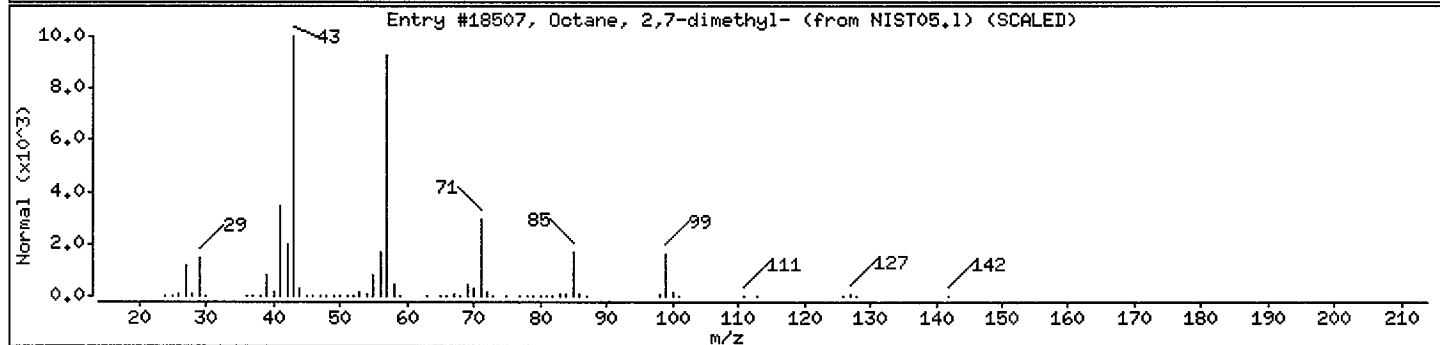
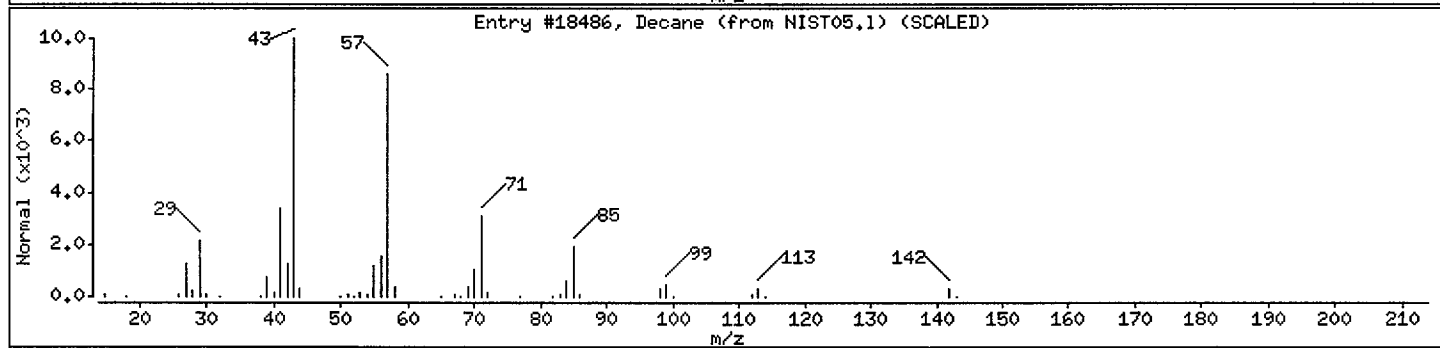
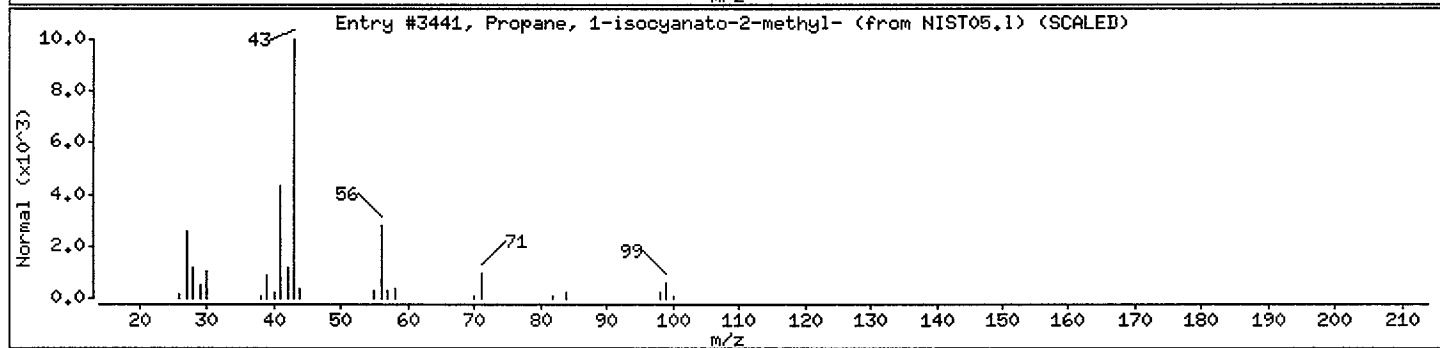
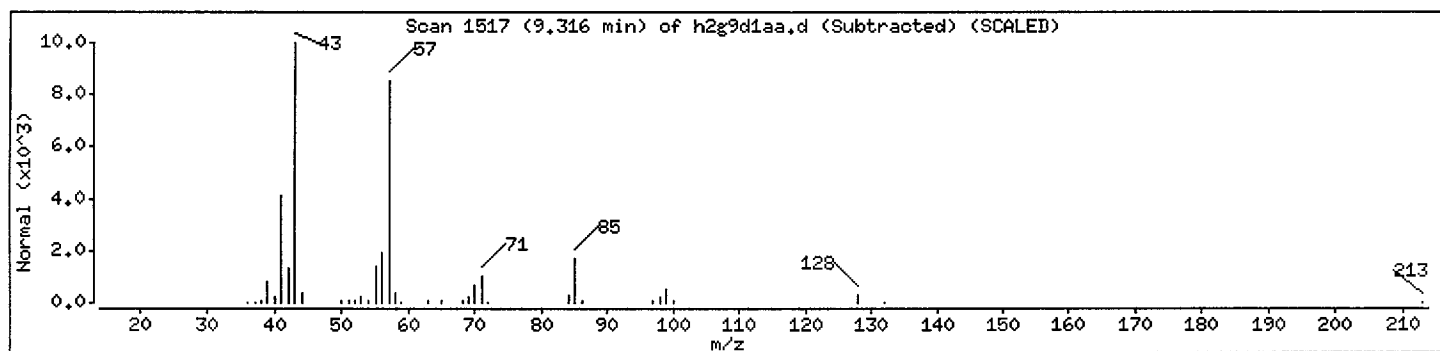
Sample Info: H2G9D1AA,1,0,,

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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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 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 11:12 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

							CONCENTRATIONS	
		QUANT SIG				ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(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

4/19/06 H

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 Report Date: 18-Apr-2006 11:13

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug)
=====	====	==	=====	=====	=====	=====	=====
42 1,1-Dichloropropene	75	4.852	4.437	(1.000)	91309	1.94993	~~0.040748~~
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	~~0.025308~~
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	~~0.0010320~~
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	~~0.0030303~~
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

4/19/06

Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d
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STL Knoxville

INTERNAL STANDARD COMPOUNDS AREA AND RT SUMMARY

Instrument ID: mx.i	Calibration Date: 07-APR-2006
Lab File ID: h2g9f1aa.d	Calibration Time: 09:16
Lab Smp Id: H2G9F1AA	Client Smp ID: G-2914-R1-VOST PAIR
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m	
Misc Info: X040706,8260B_LM,focus.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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

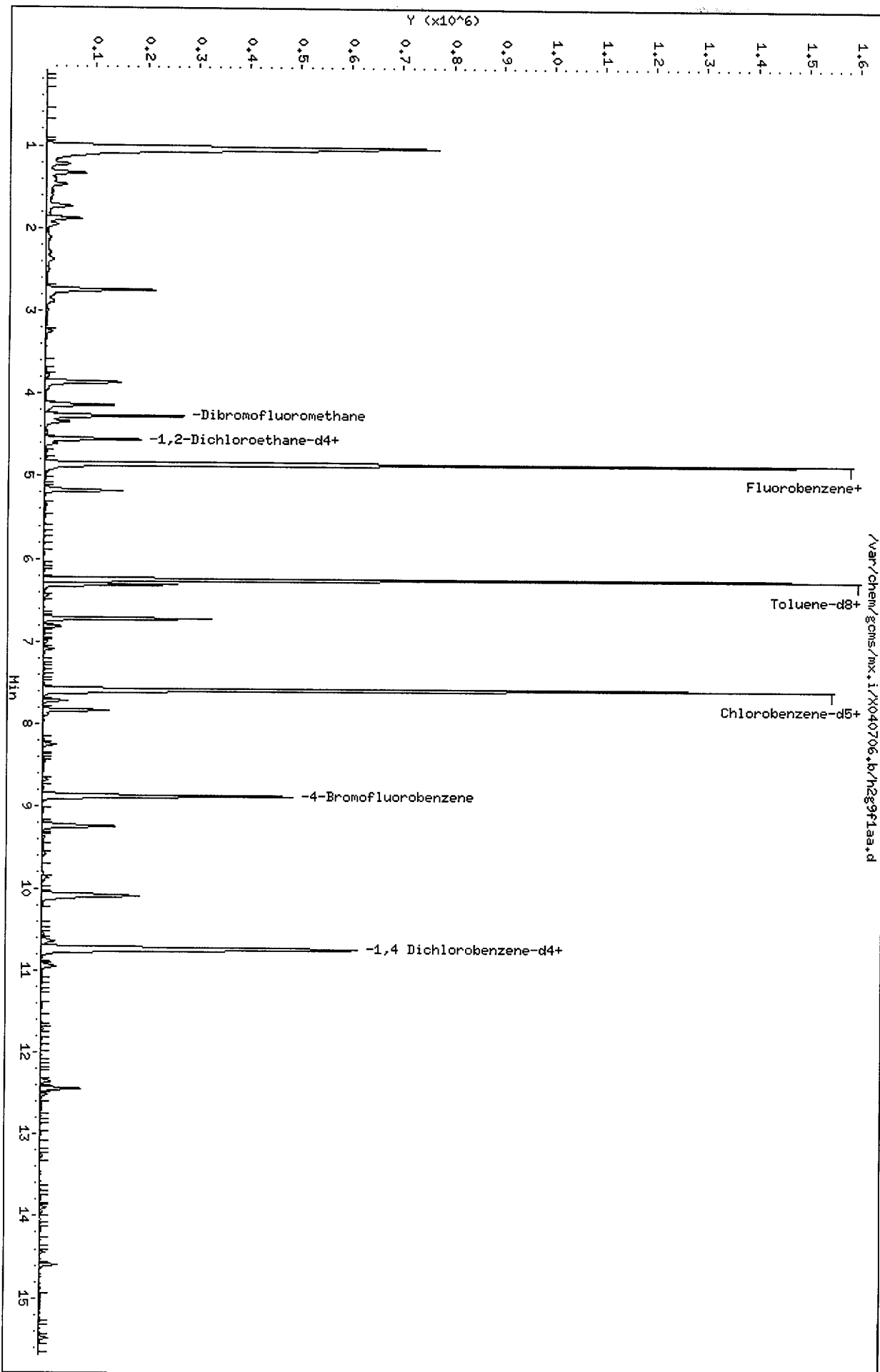
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 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: H2G9F1AA Client Smp ID: G-2914-R1-VOST PAIR
 Level: LOW Operator: 22980
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: allcmpds.spk Quant Type: ISTD
 Sublist File: focus.sub
 Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m
 Misc Info: X040706,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 4 Dibromofluorometha	0.25000	0.18502	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+M 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,,,

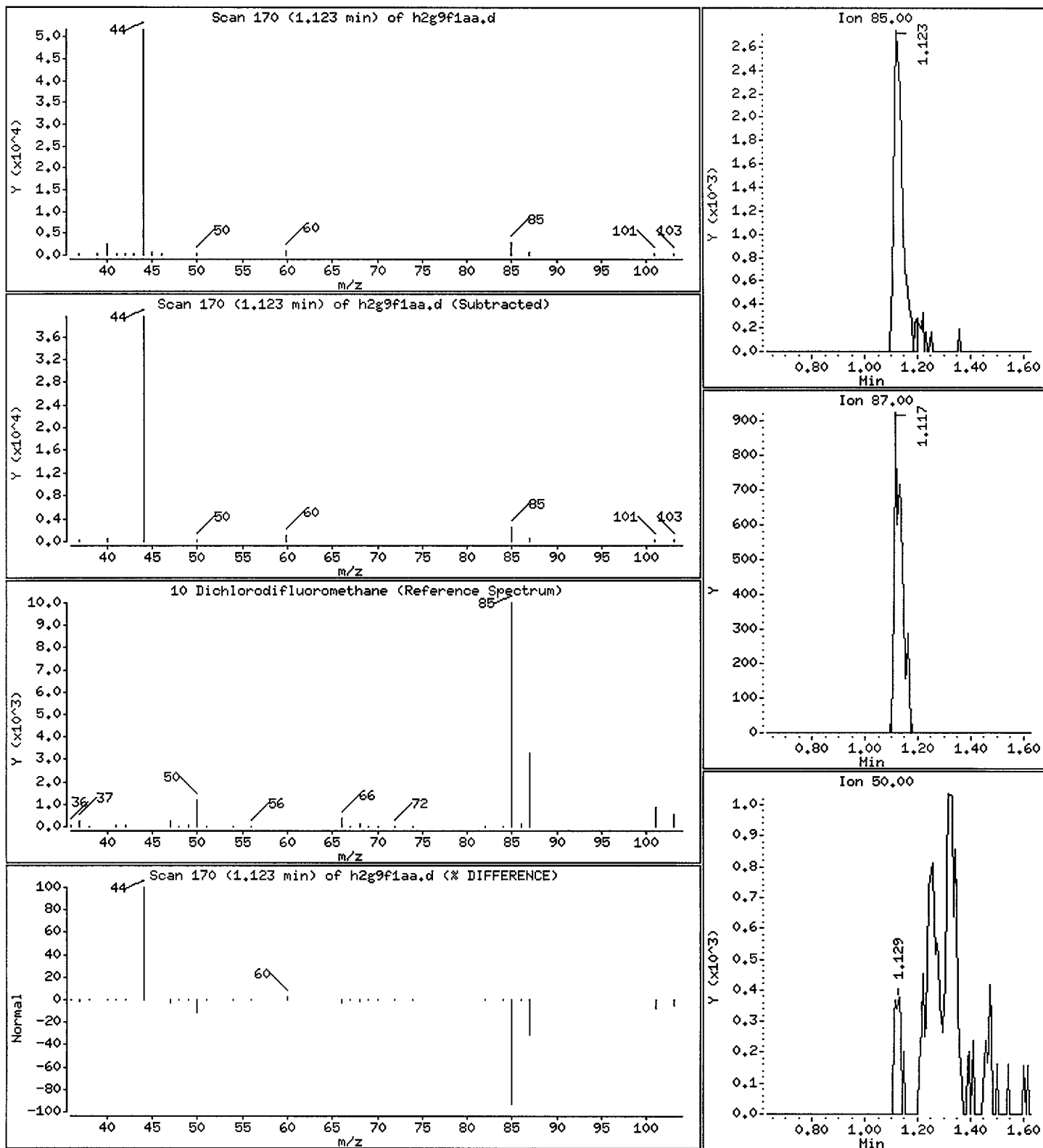
Operator: 22980

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,,,

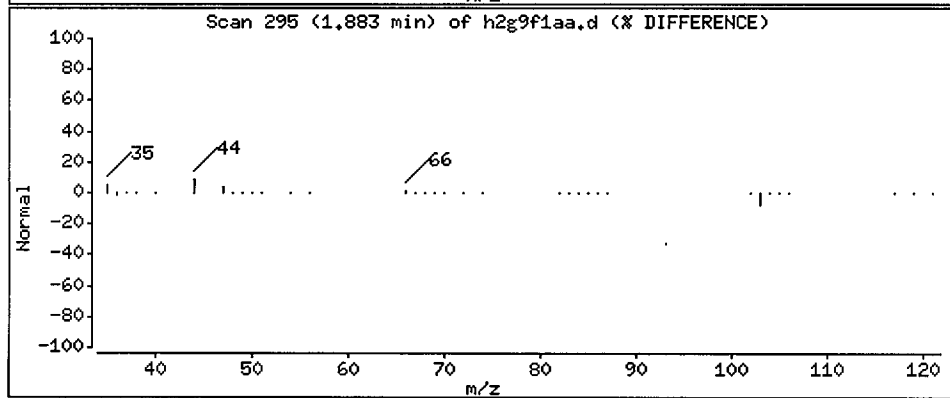
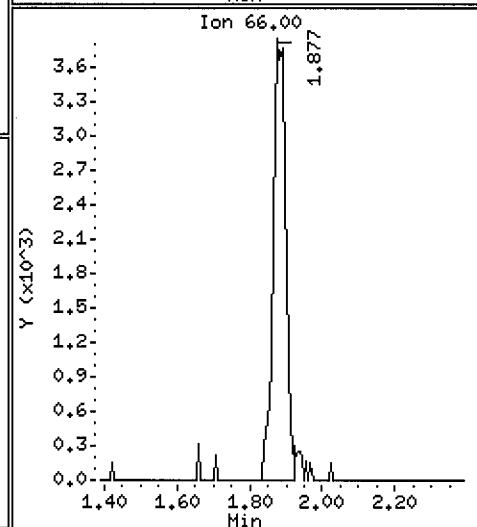
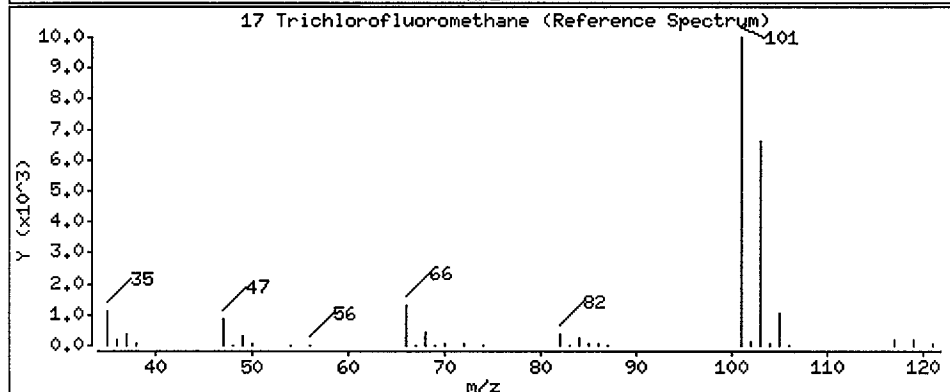
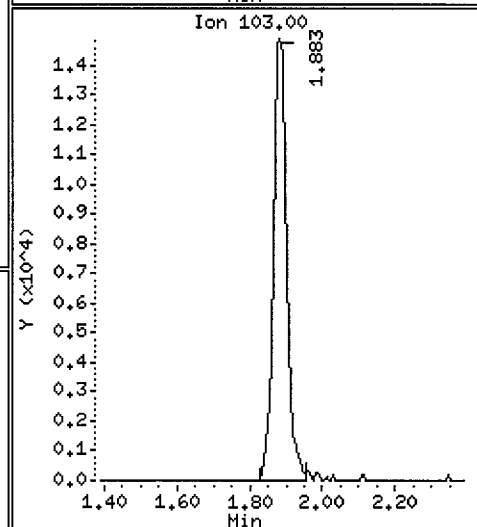
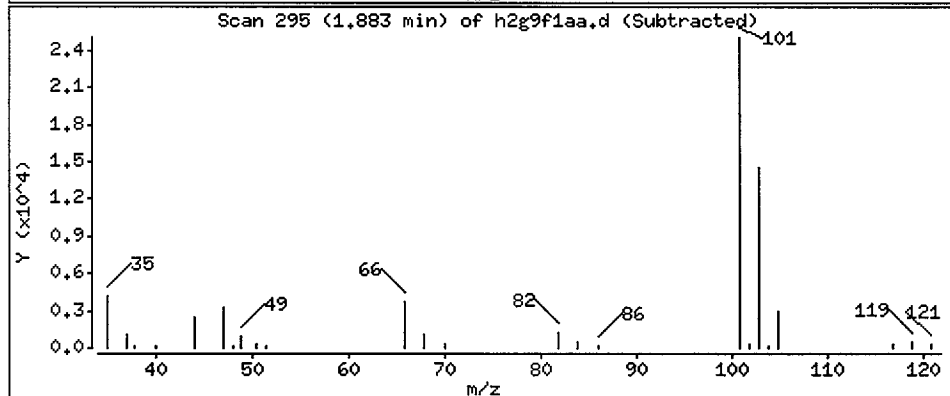
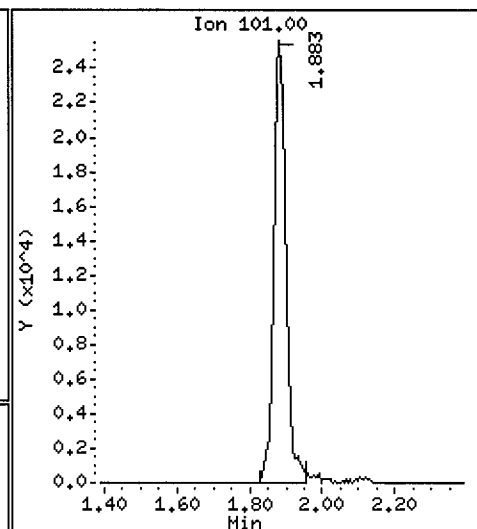
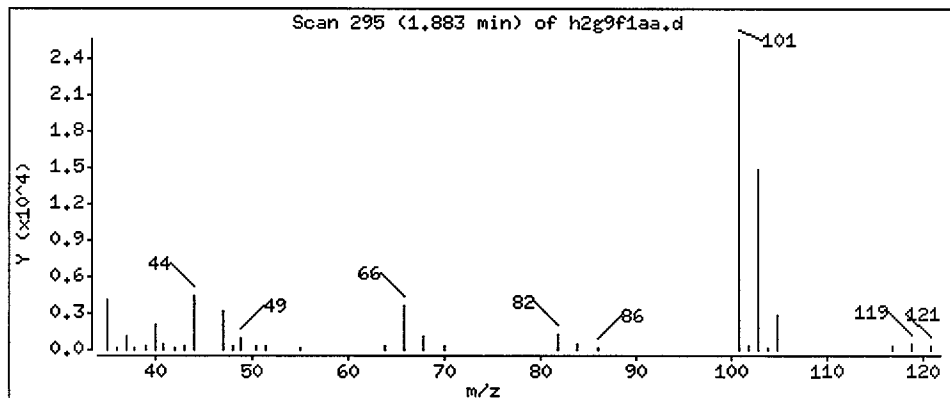
Operator: 22980

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,,,

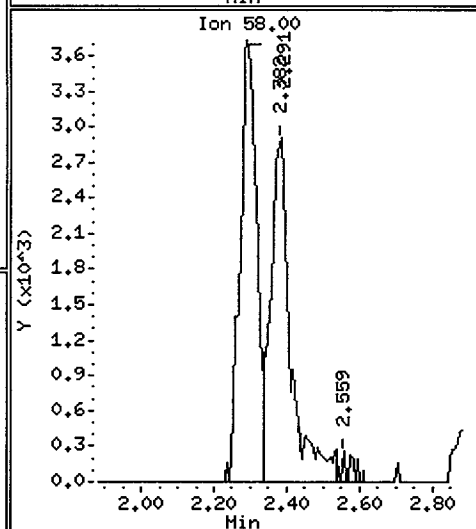
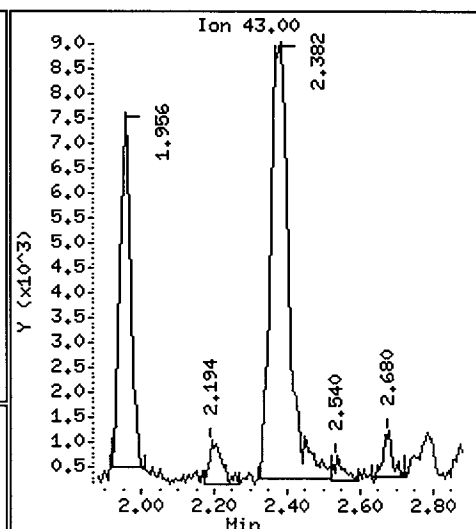
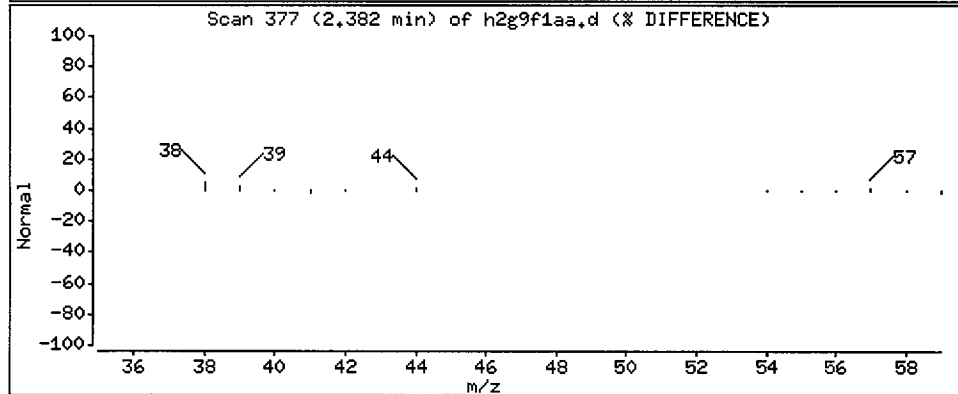
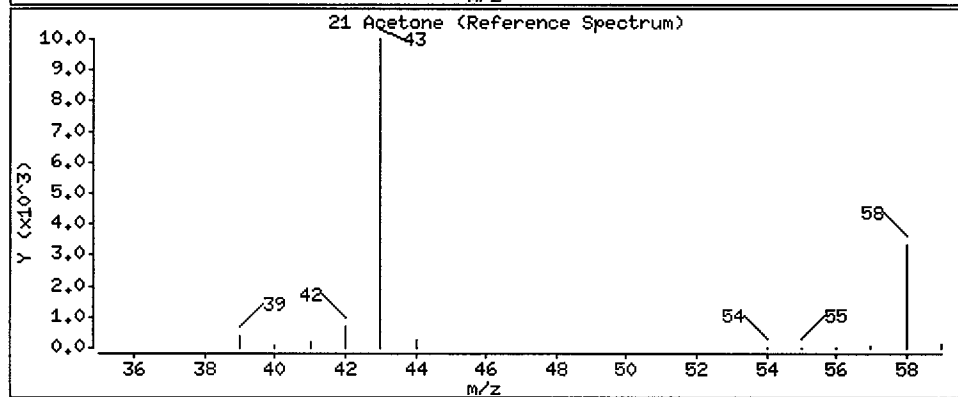
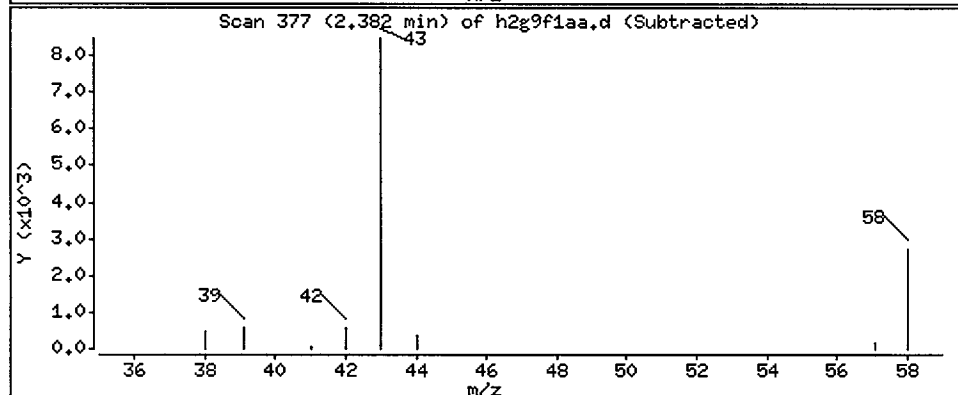
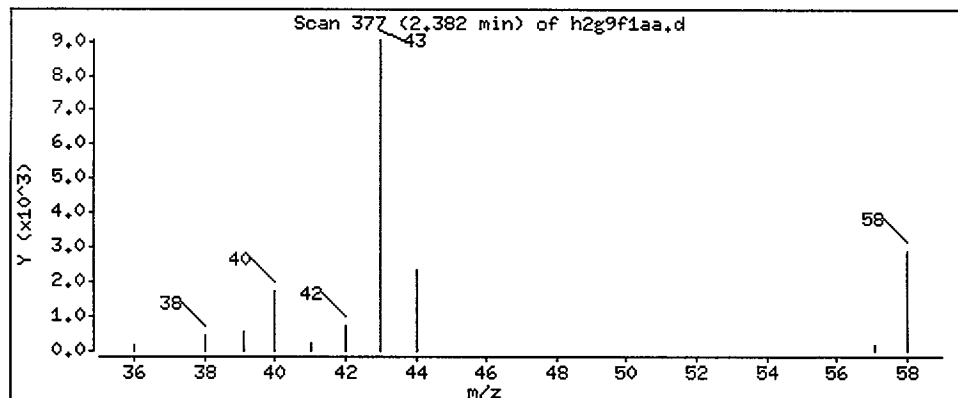
Operator: 22980

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,,,

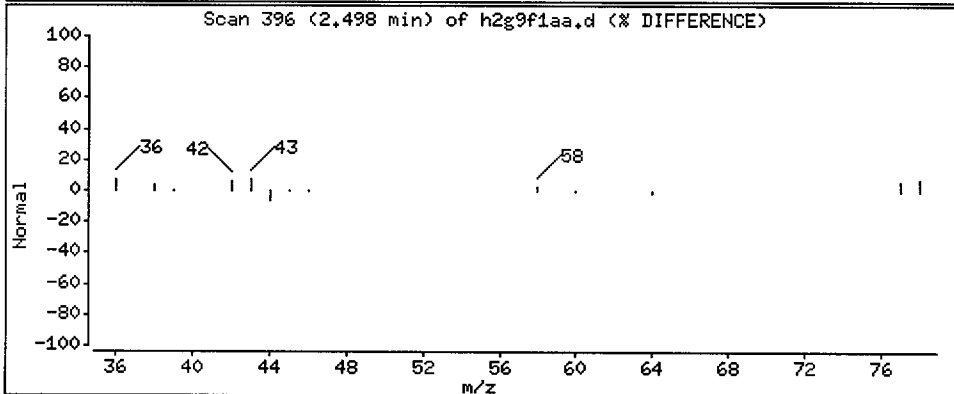
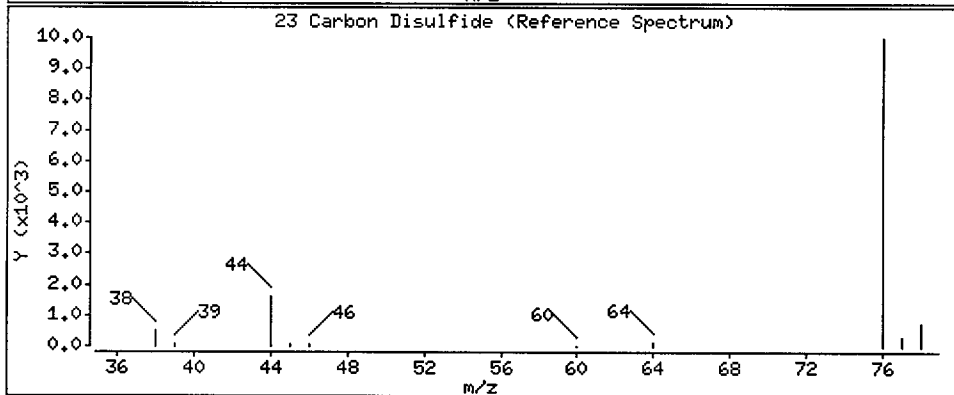
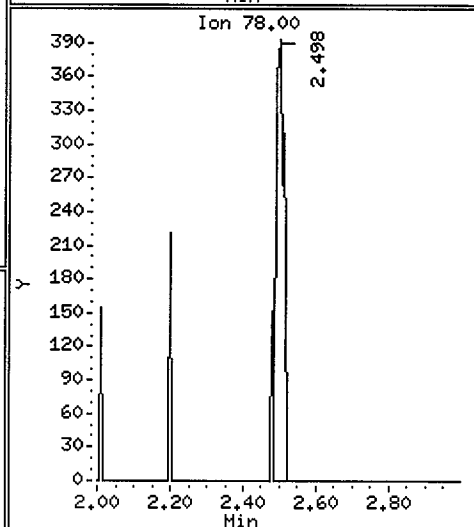
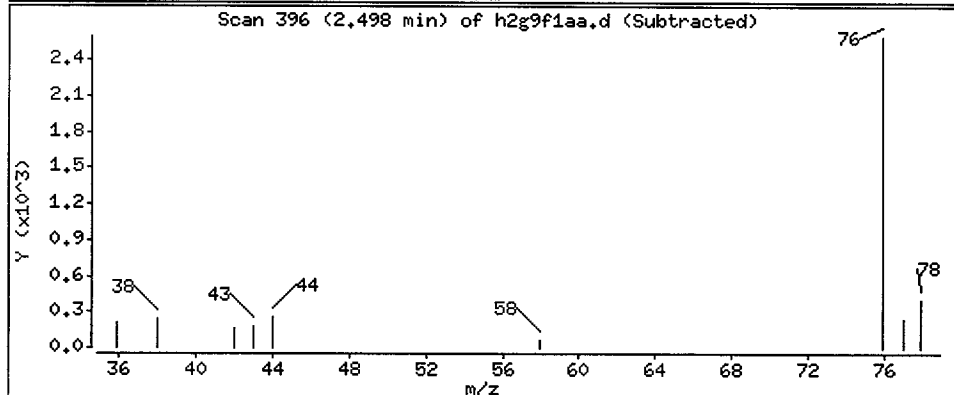
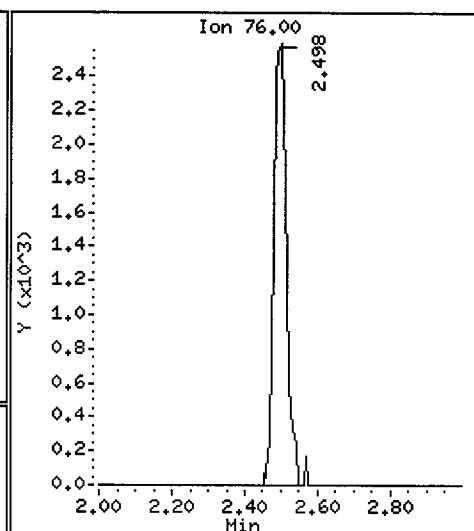
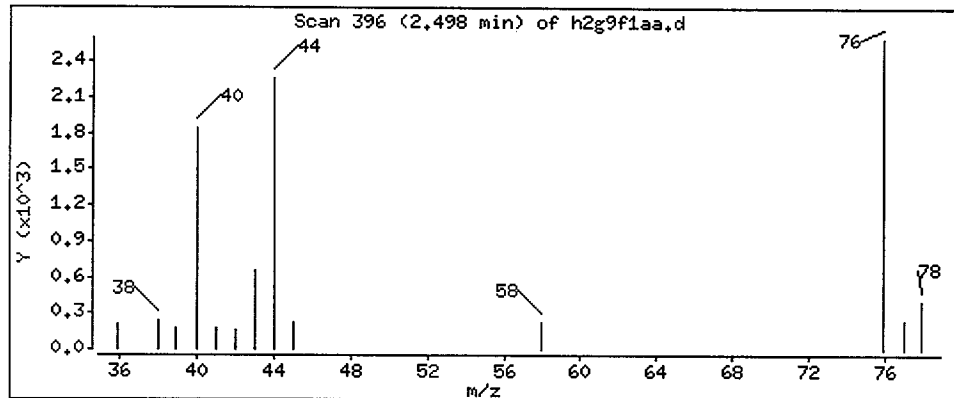
Operator: 22980

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,,,

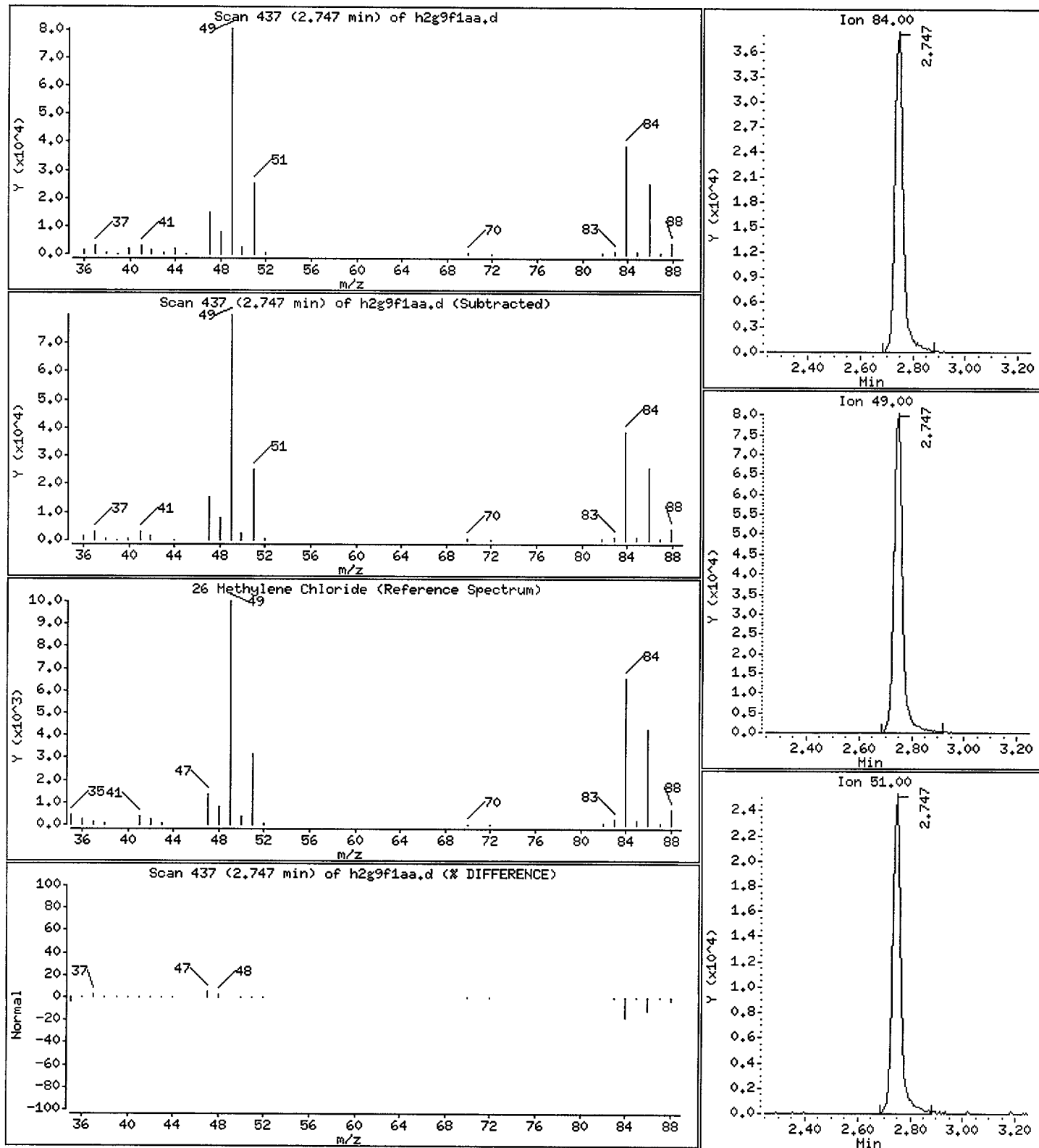
Operator: 22980

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,,,

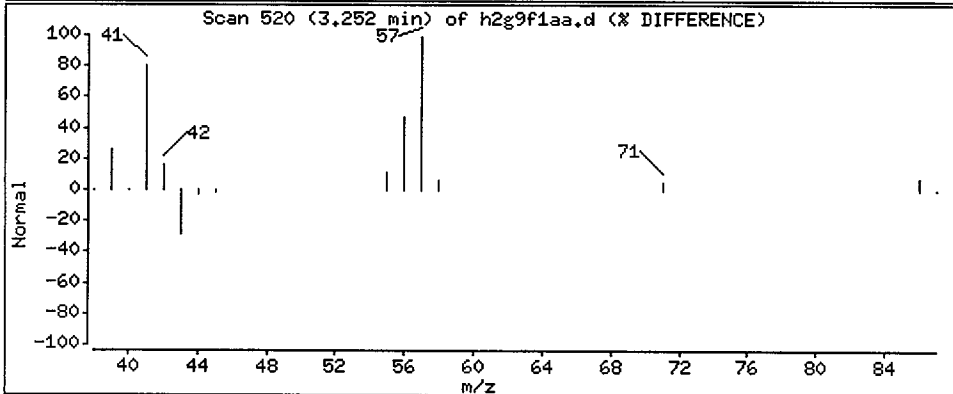
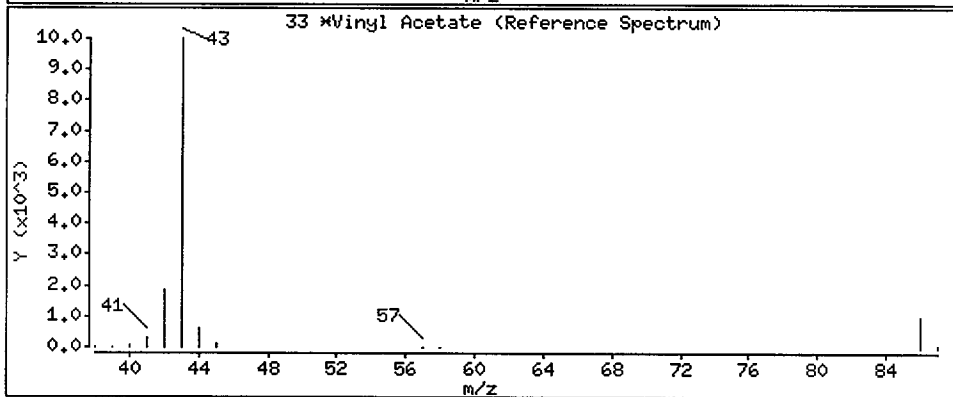
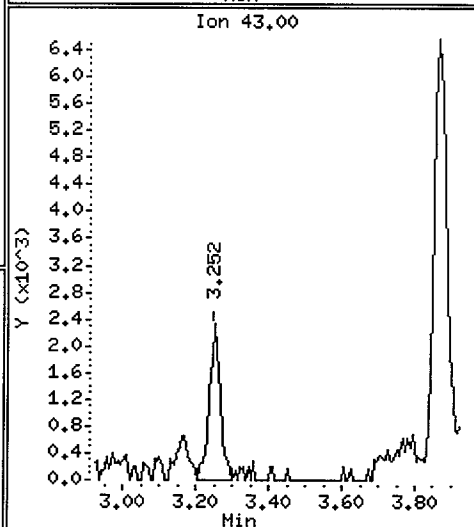
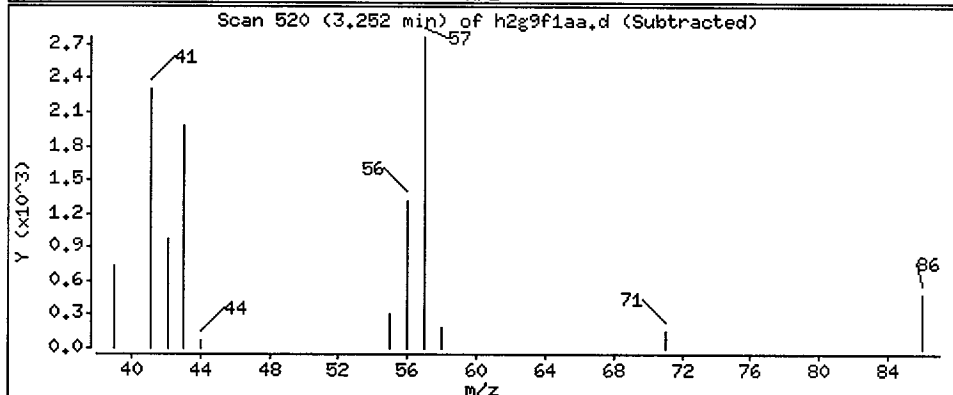
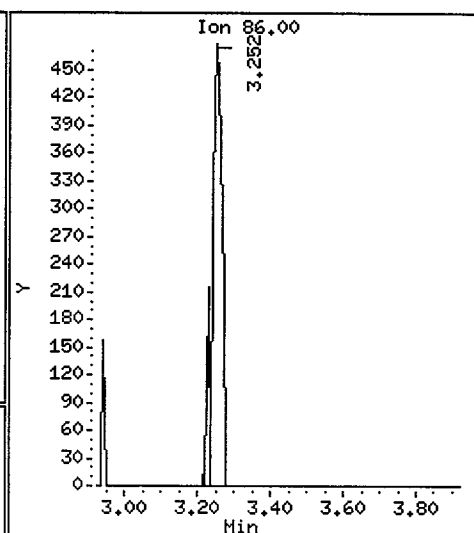
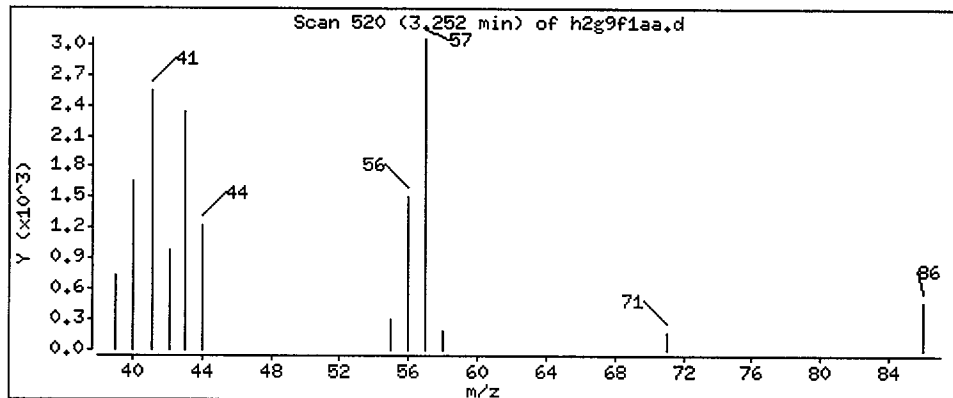
Operator: 22980

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,,,

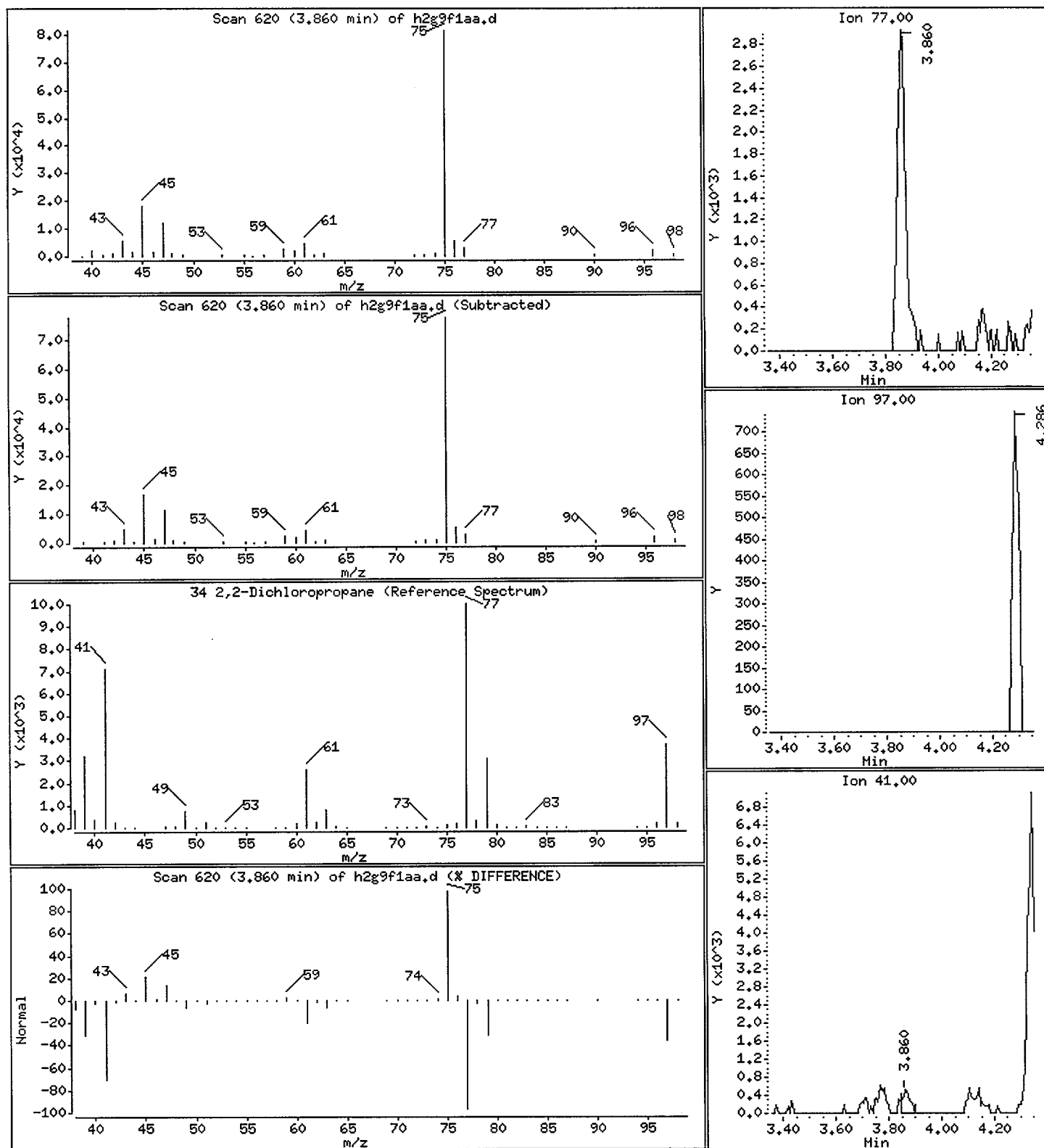
Operator: 22980

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,,,

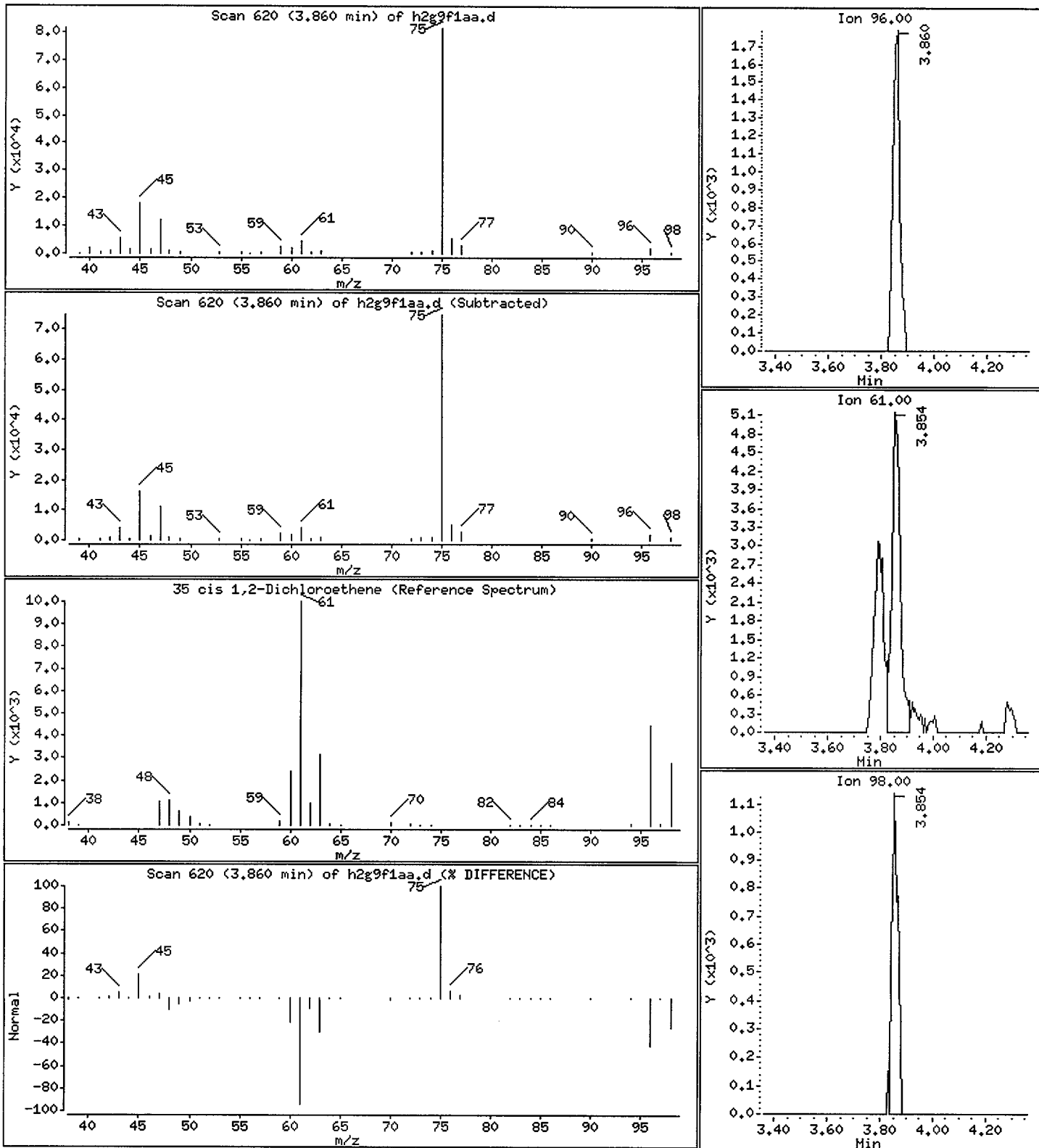
Operator: 22980

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,,,

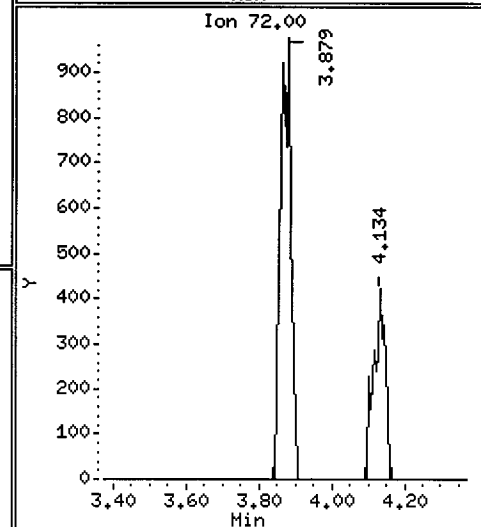
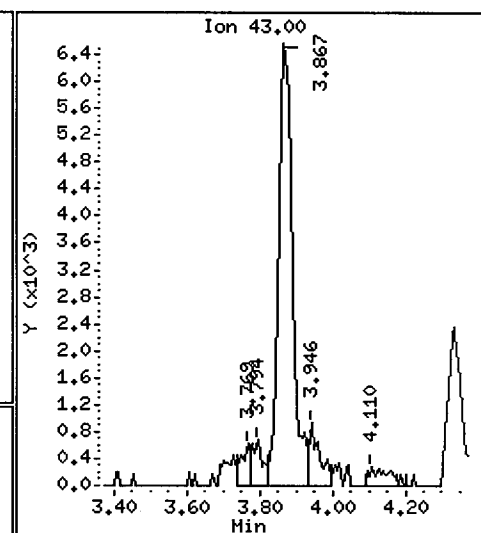
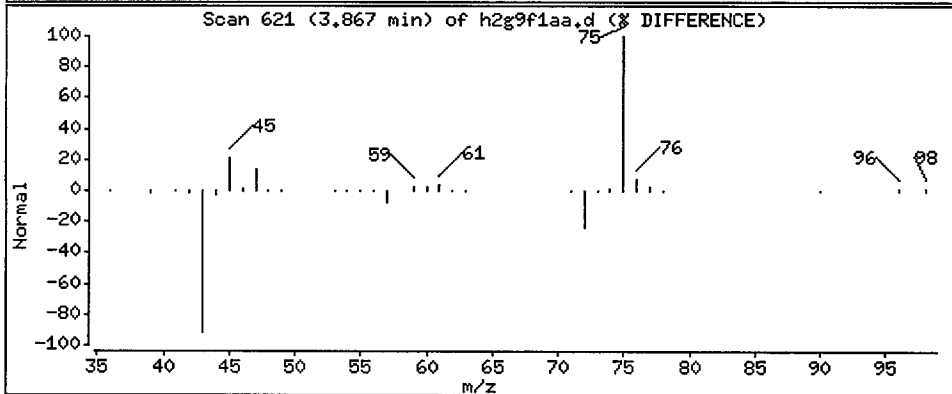
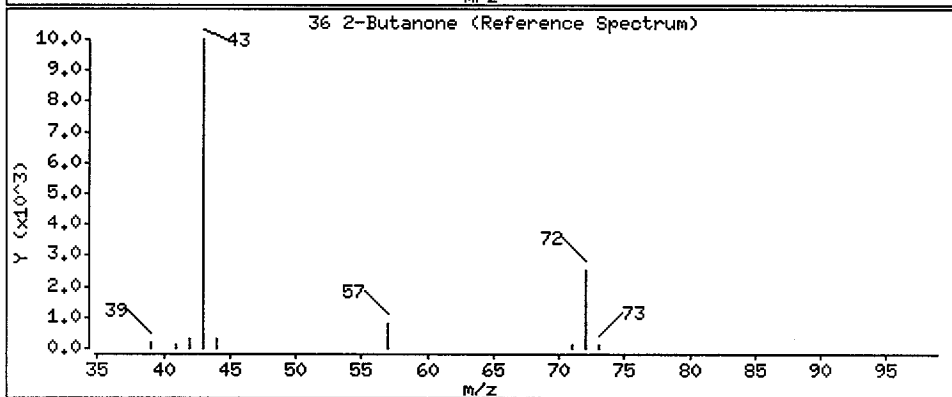
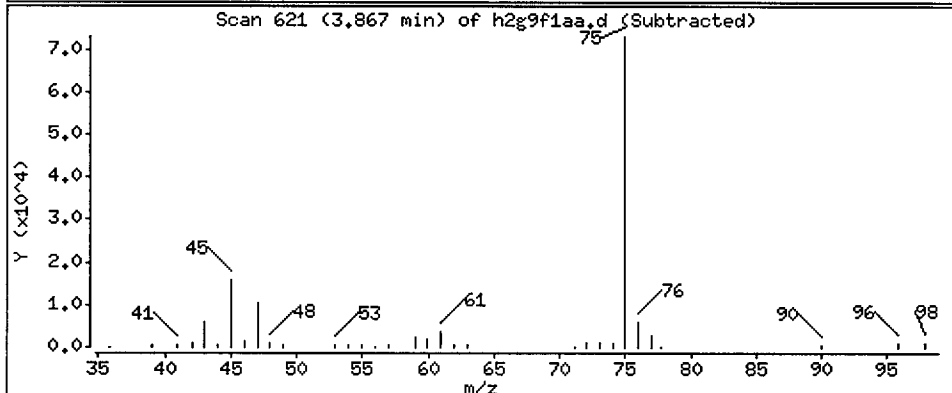
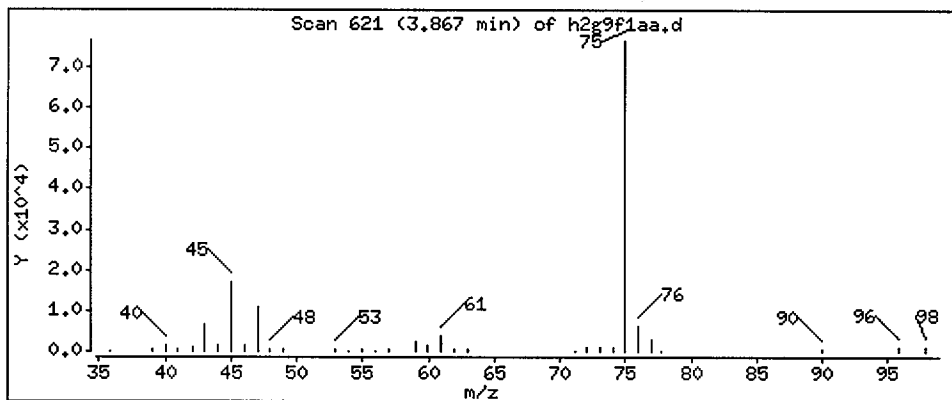
Operator: 22980

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,,,

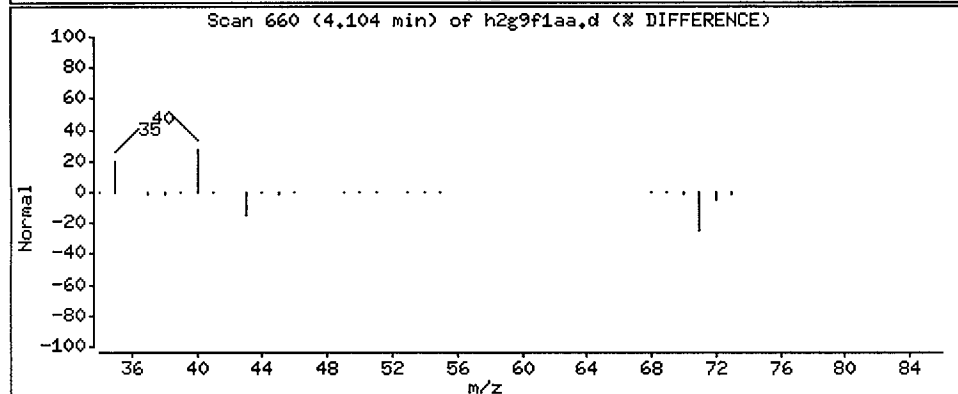
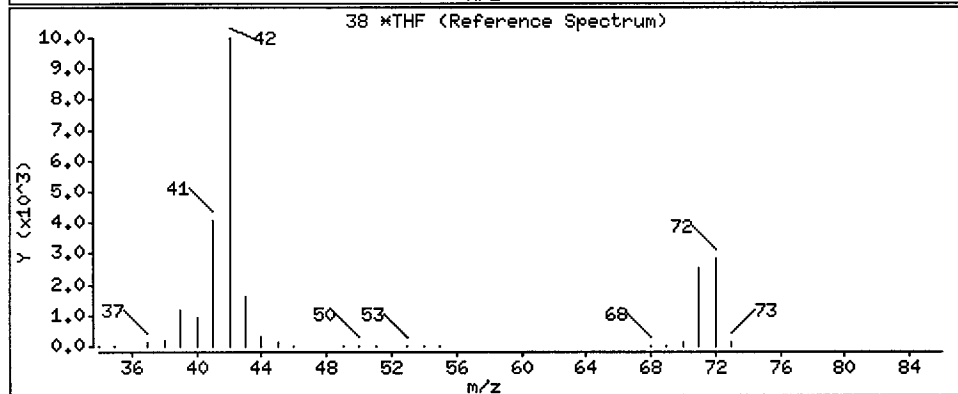
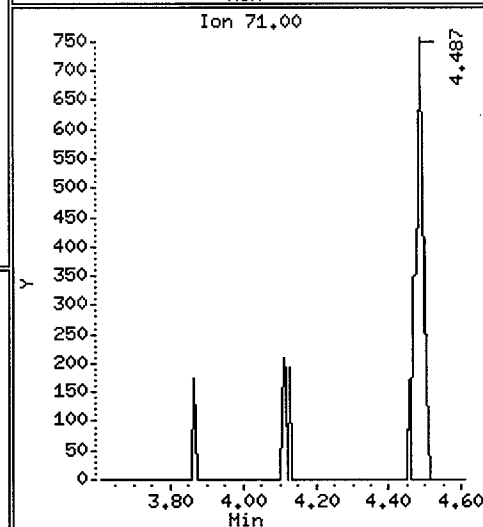
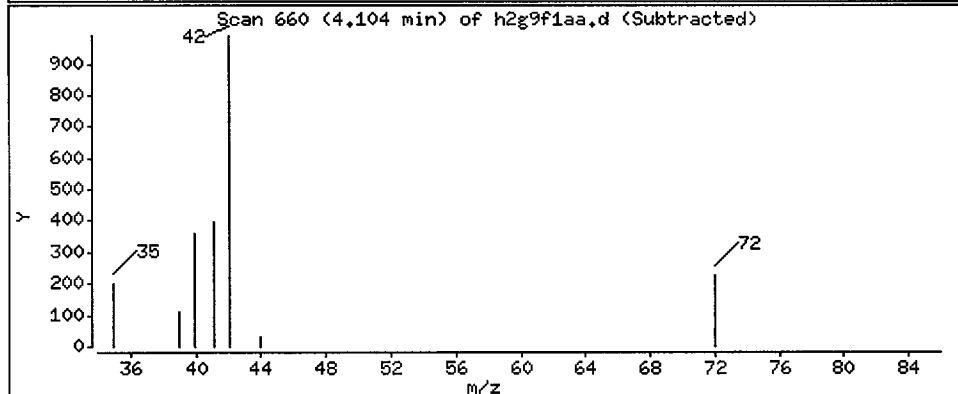
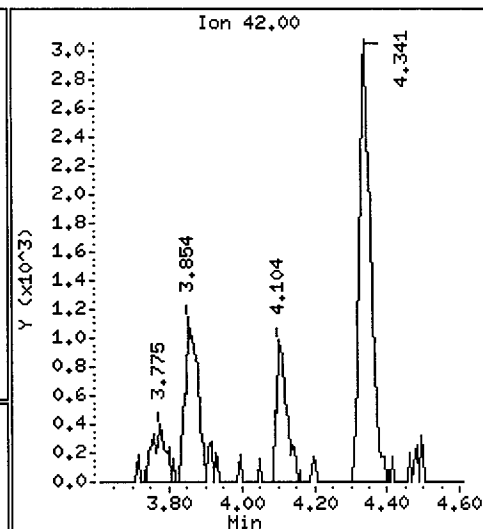
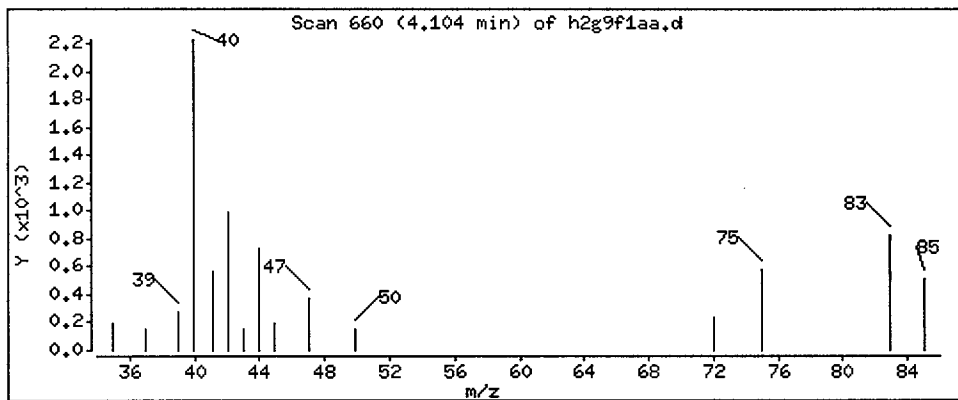
Operator: 22980

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,,,

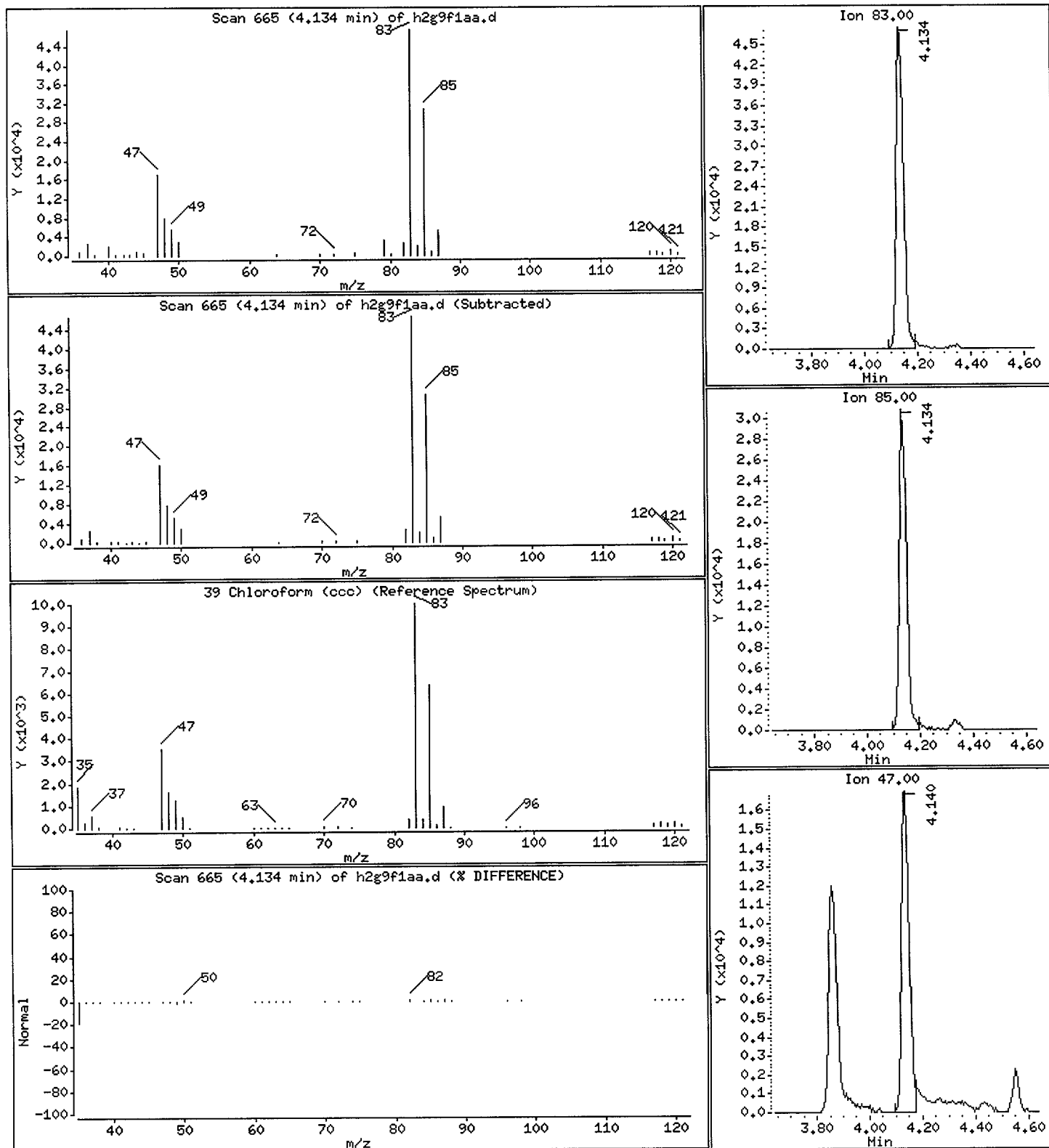
Operator: 22980

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: C-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

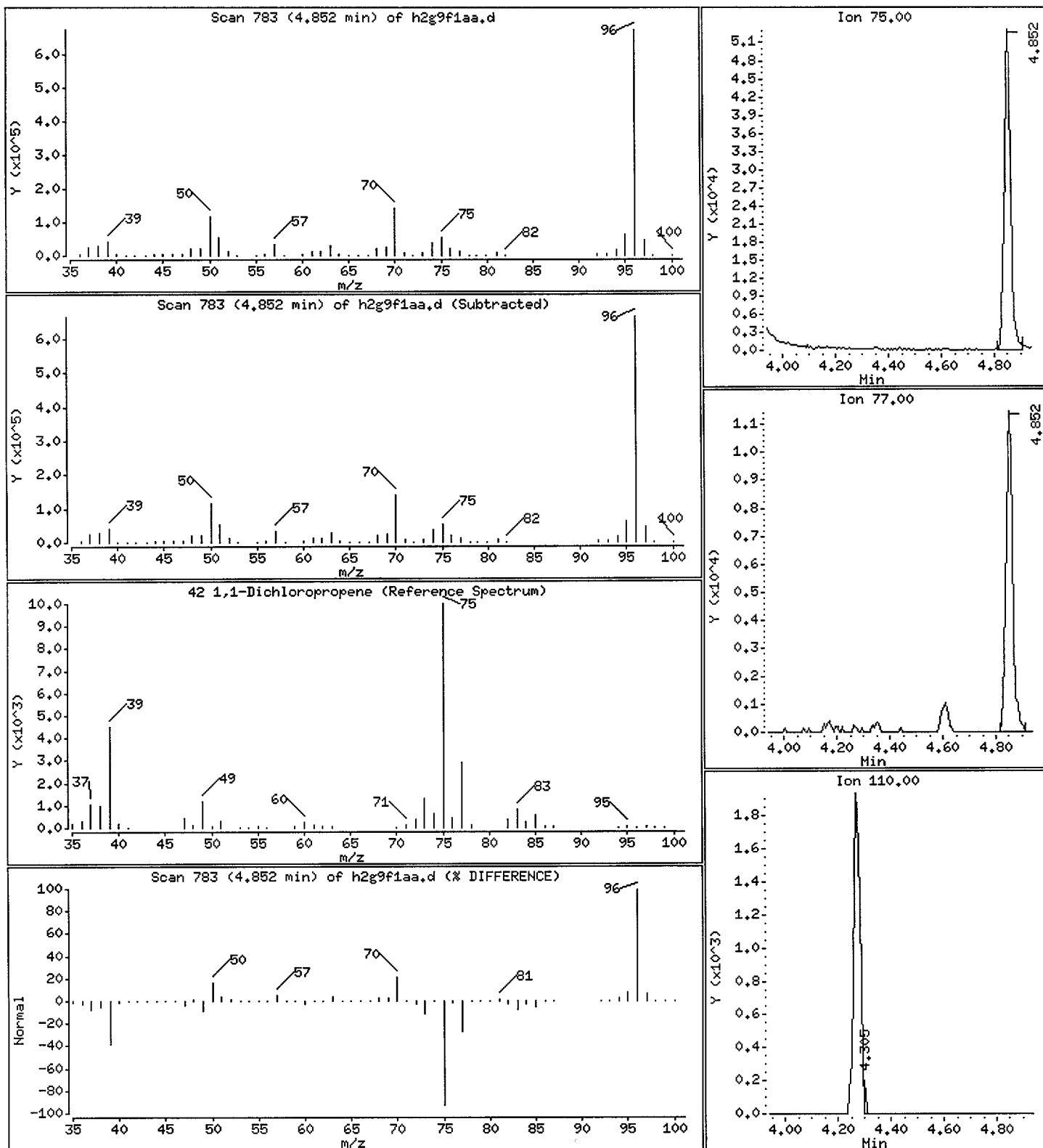
Operator: 22980

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,,,

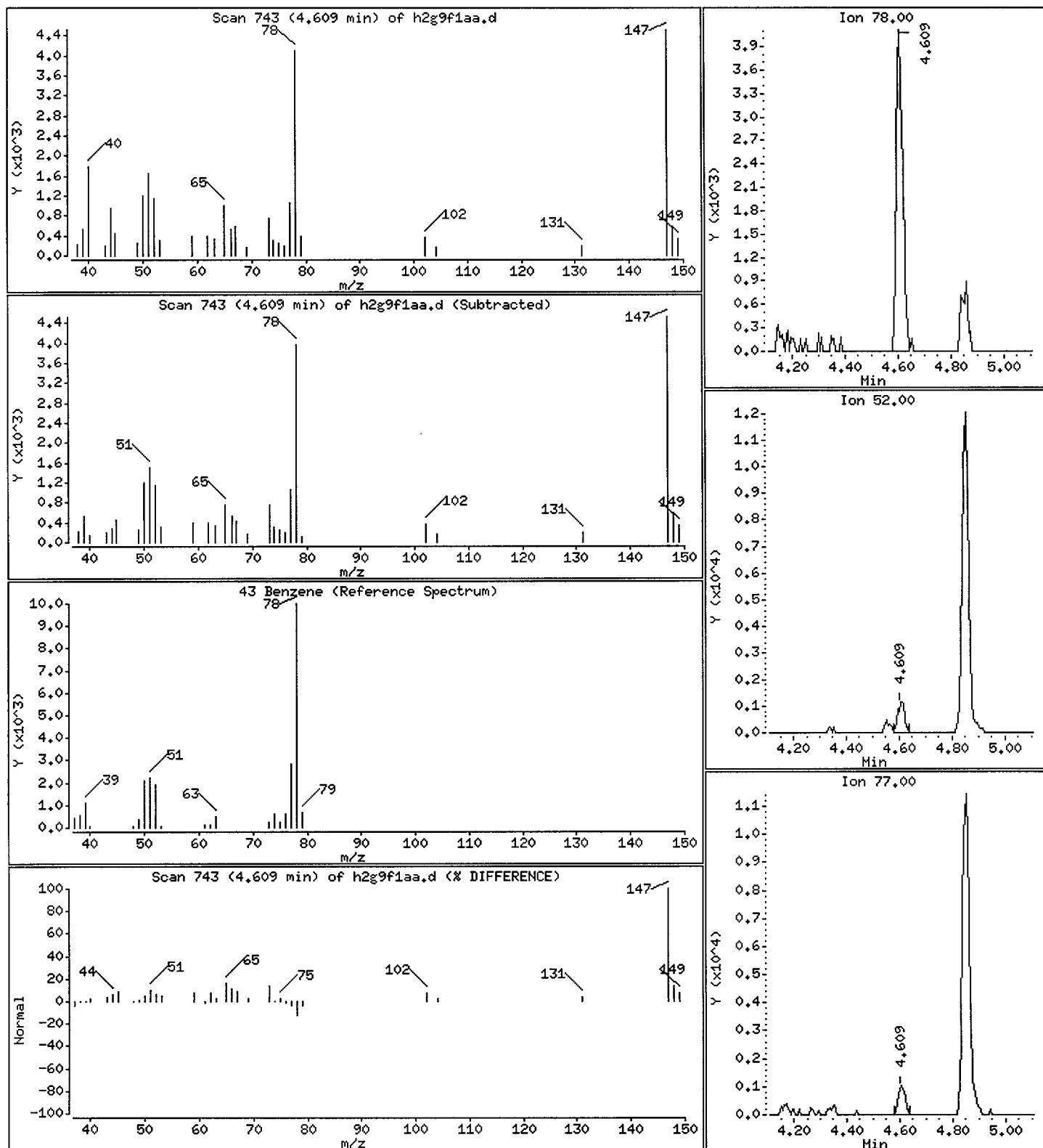
Operator: 22980

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,,,

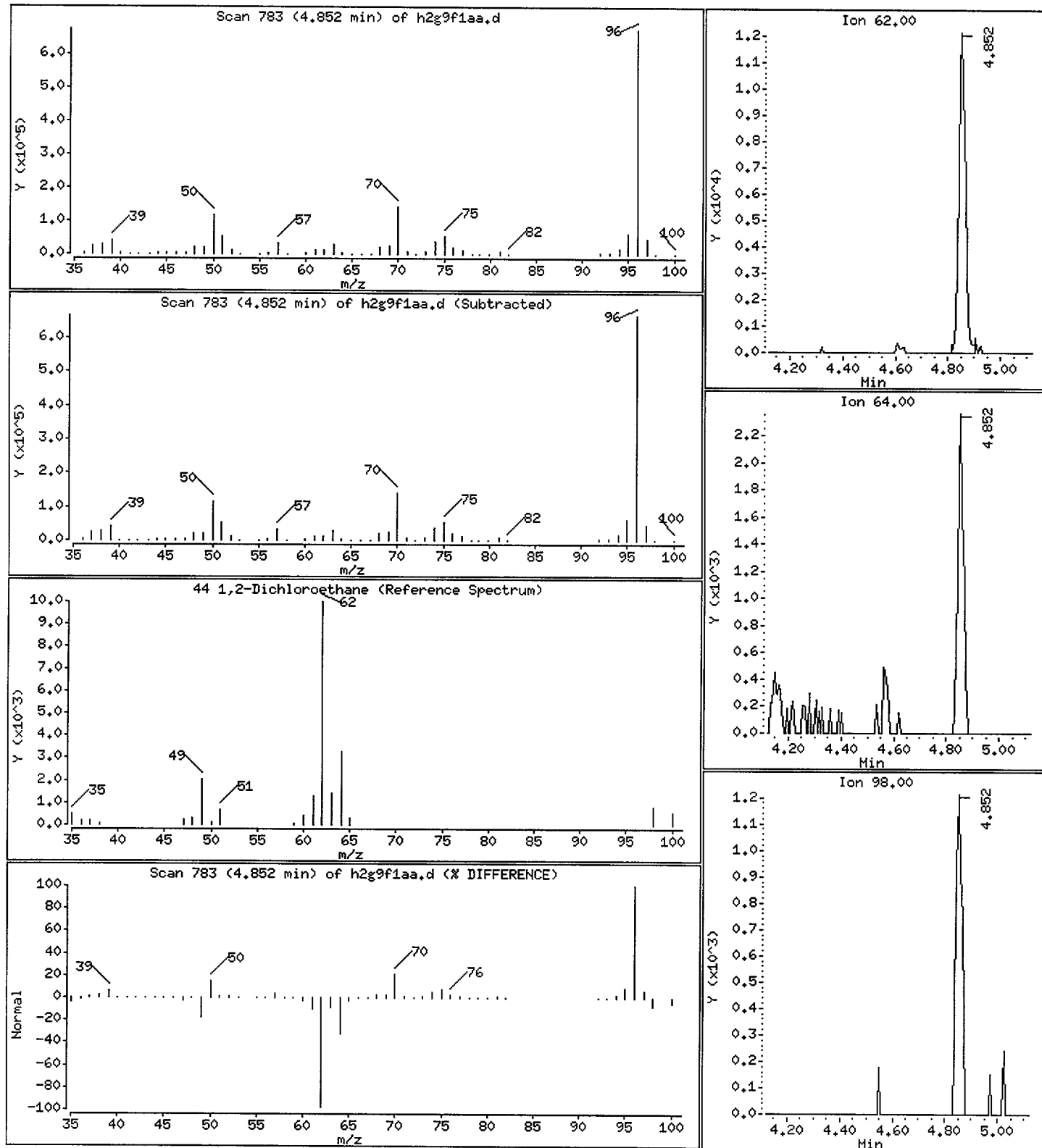
Operator: 22980

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,,,

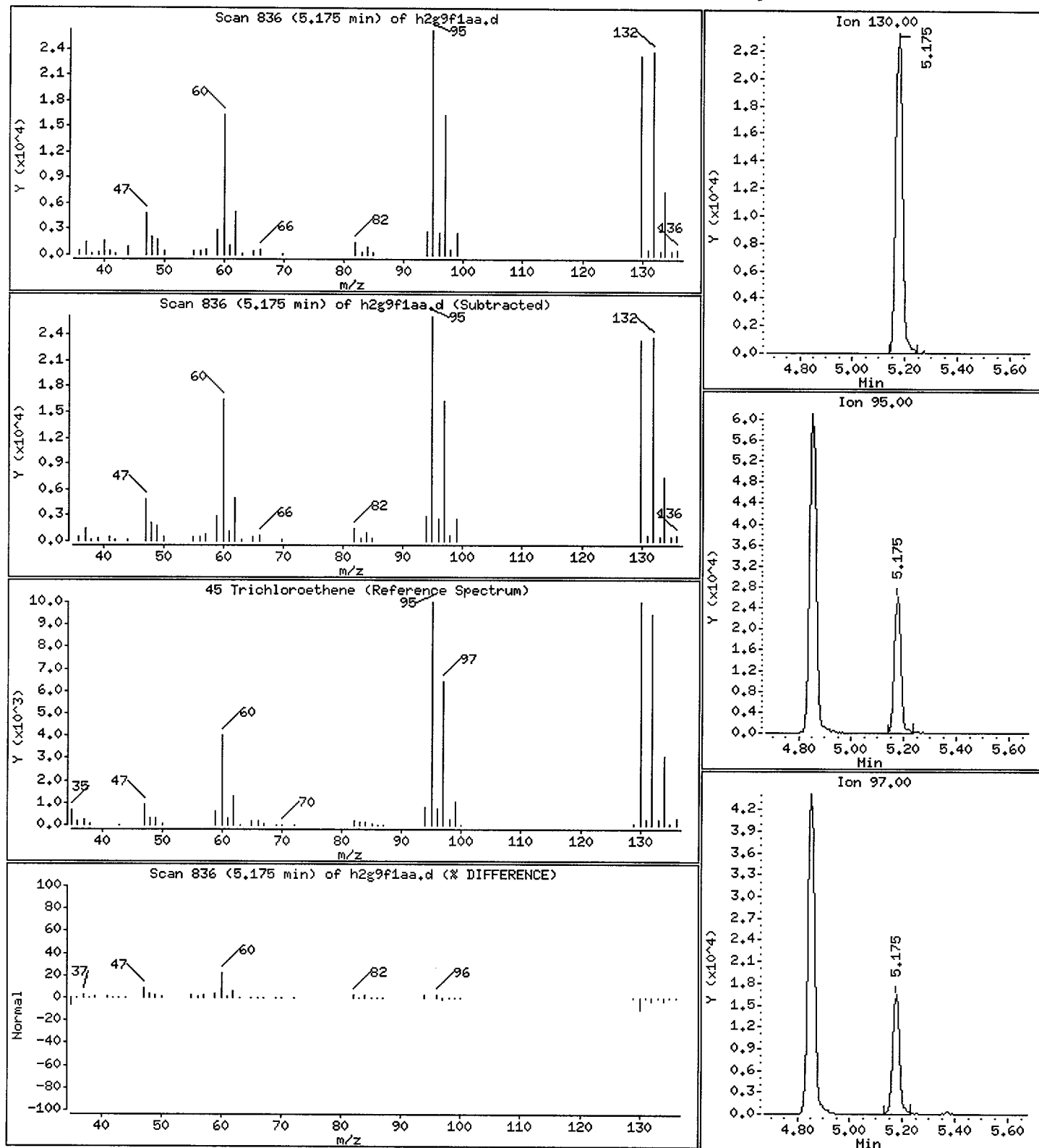
Operator: 22980

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,,,

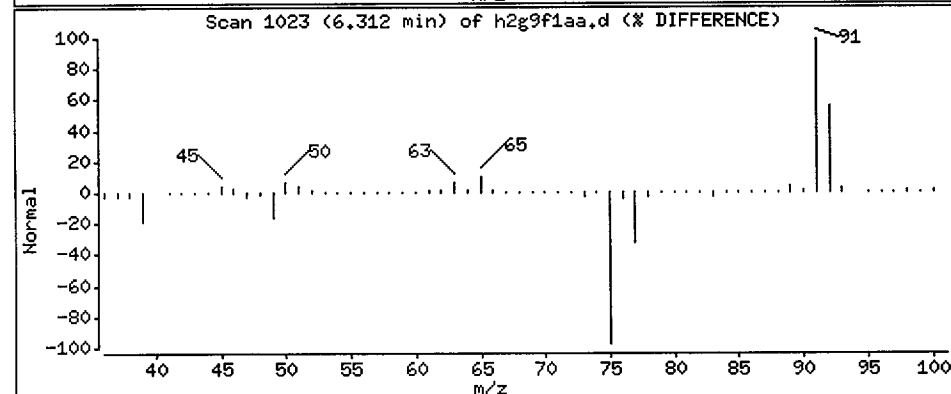
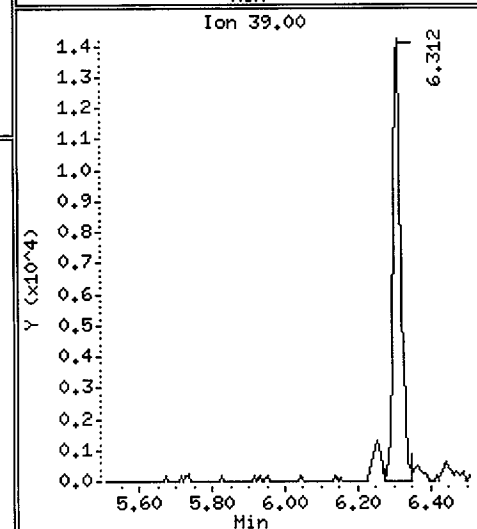
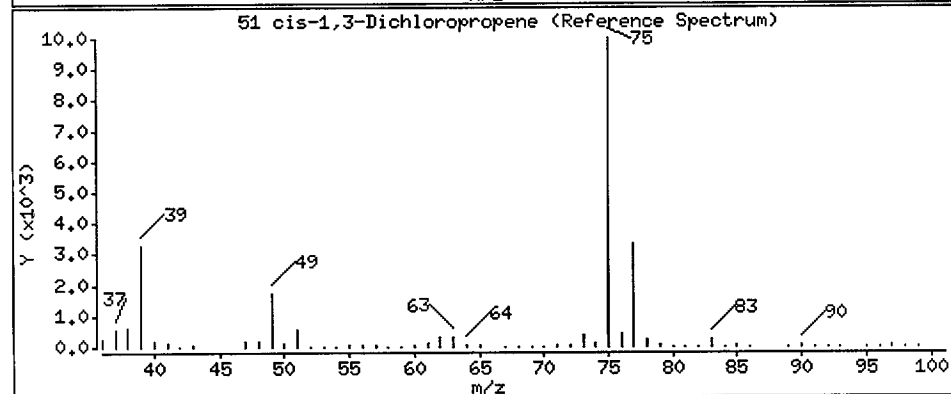
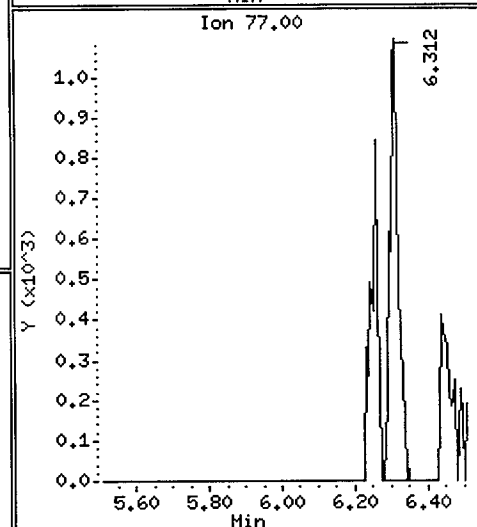
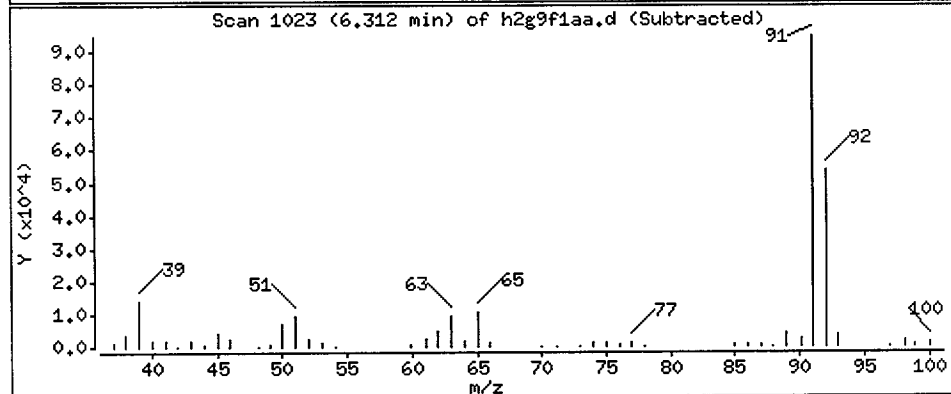
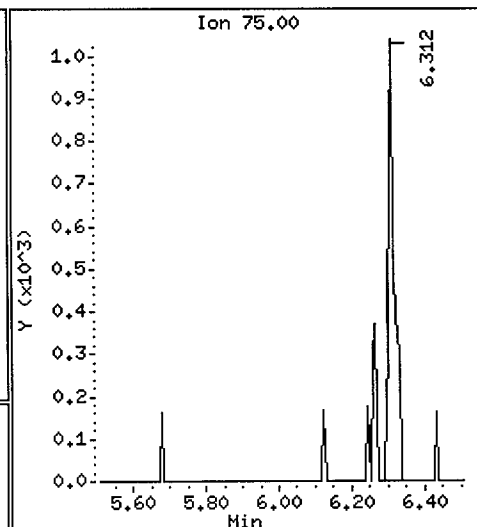
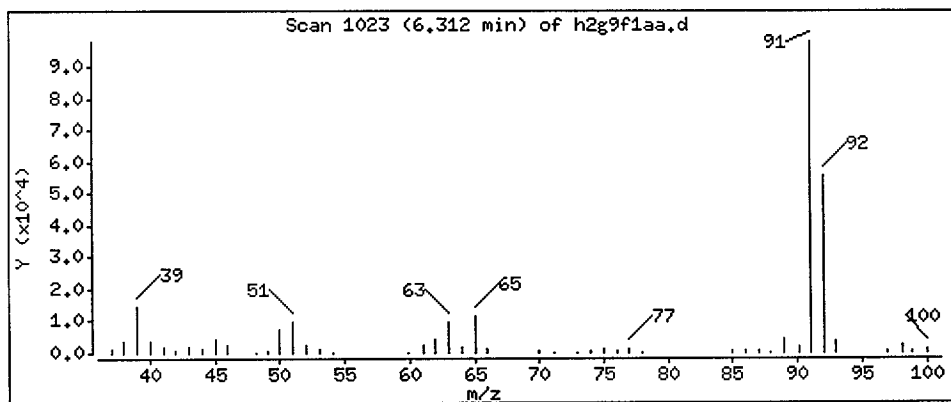
Operator: 22980

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,,,

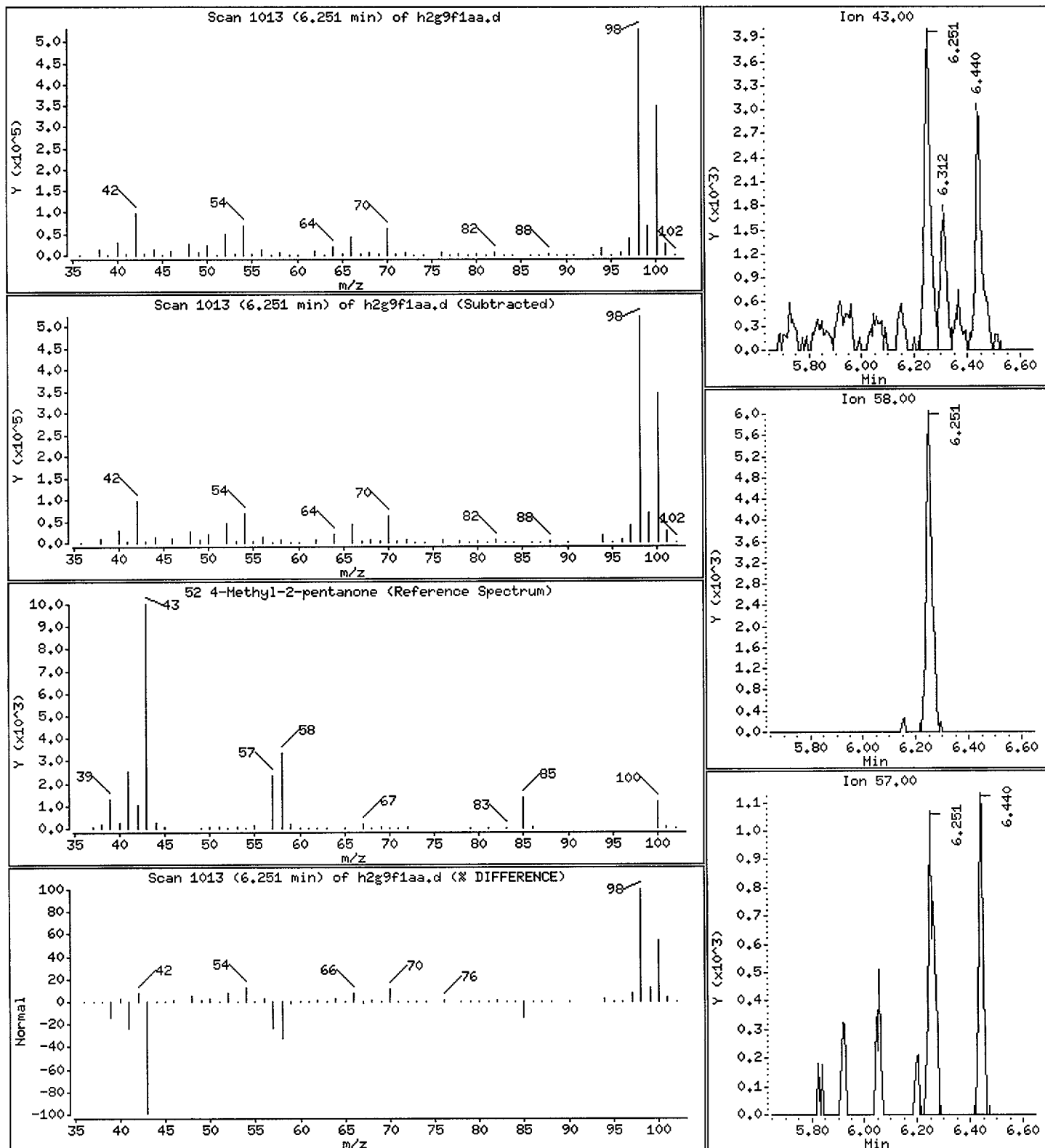
Operator: 22980

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: H2C9F1AA,1,0,,,

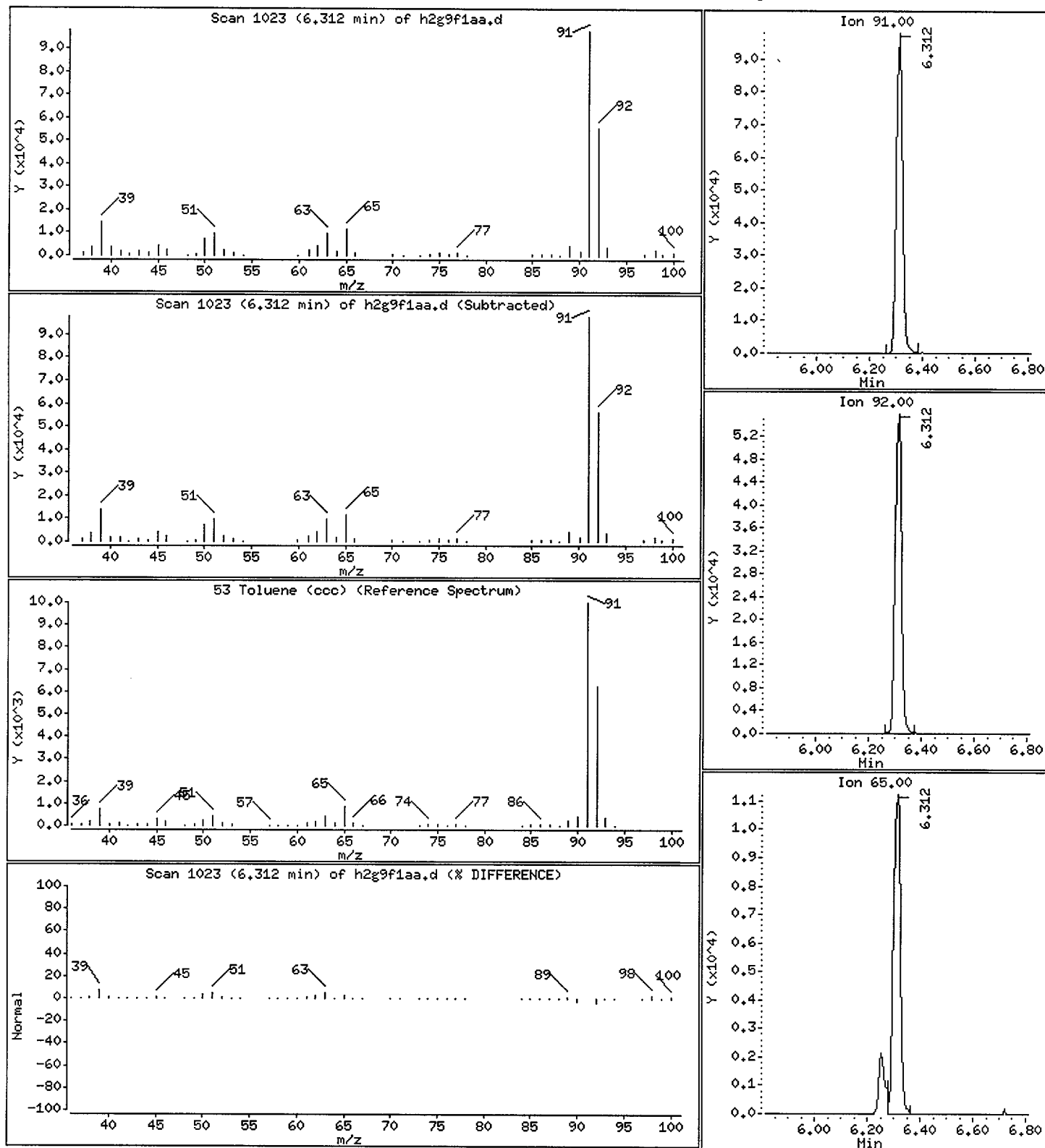
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

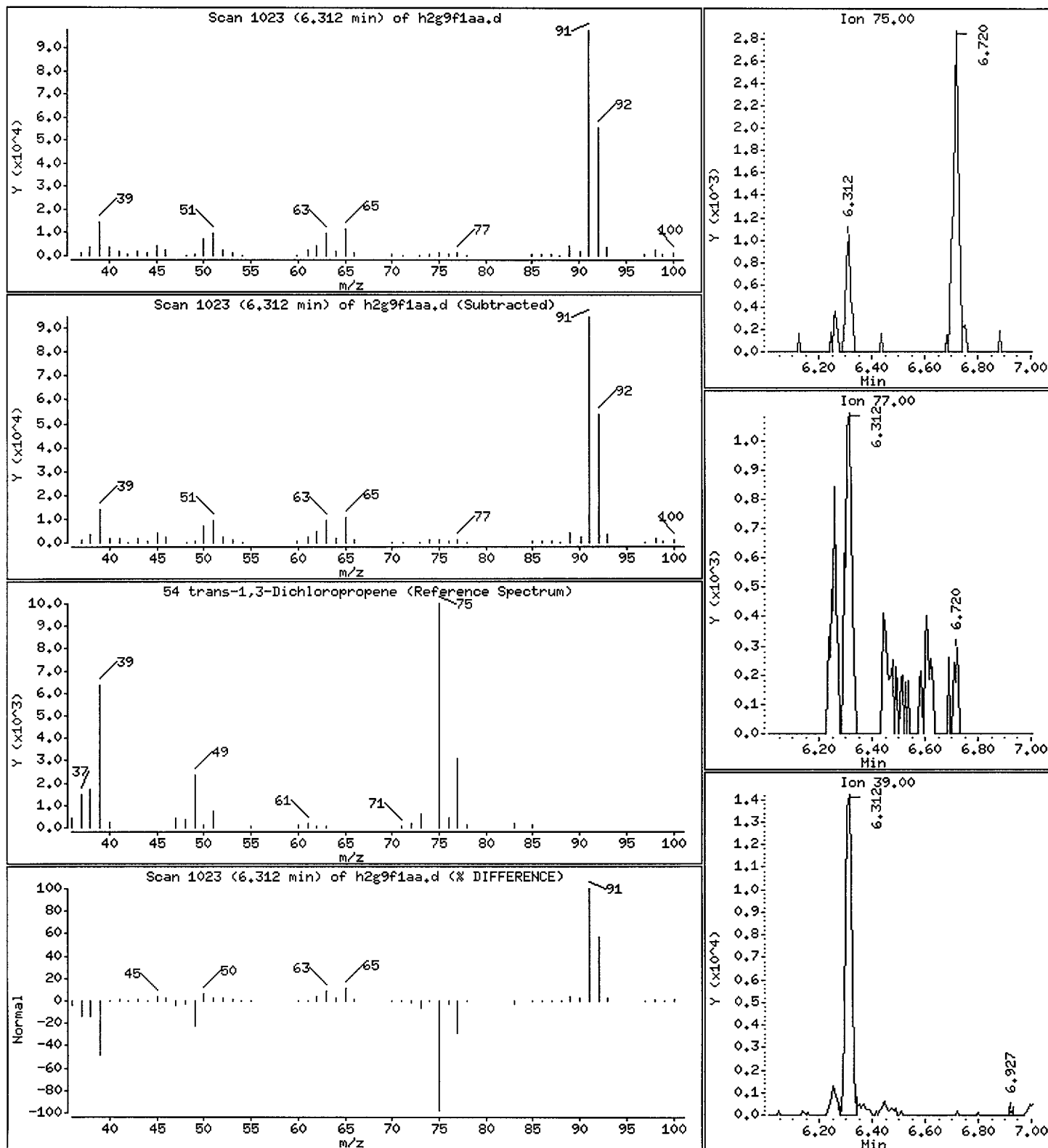
Operator: 22980

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,,,

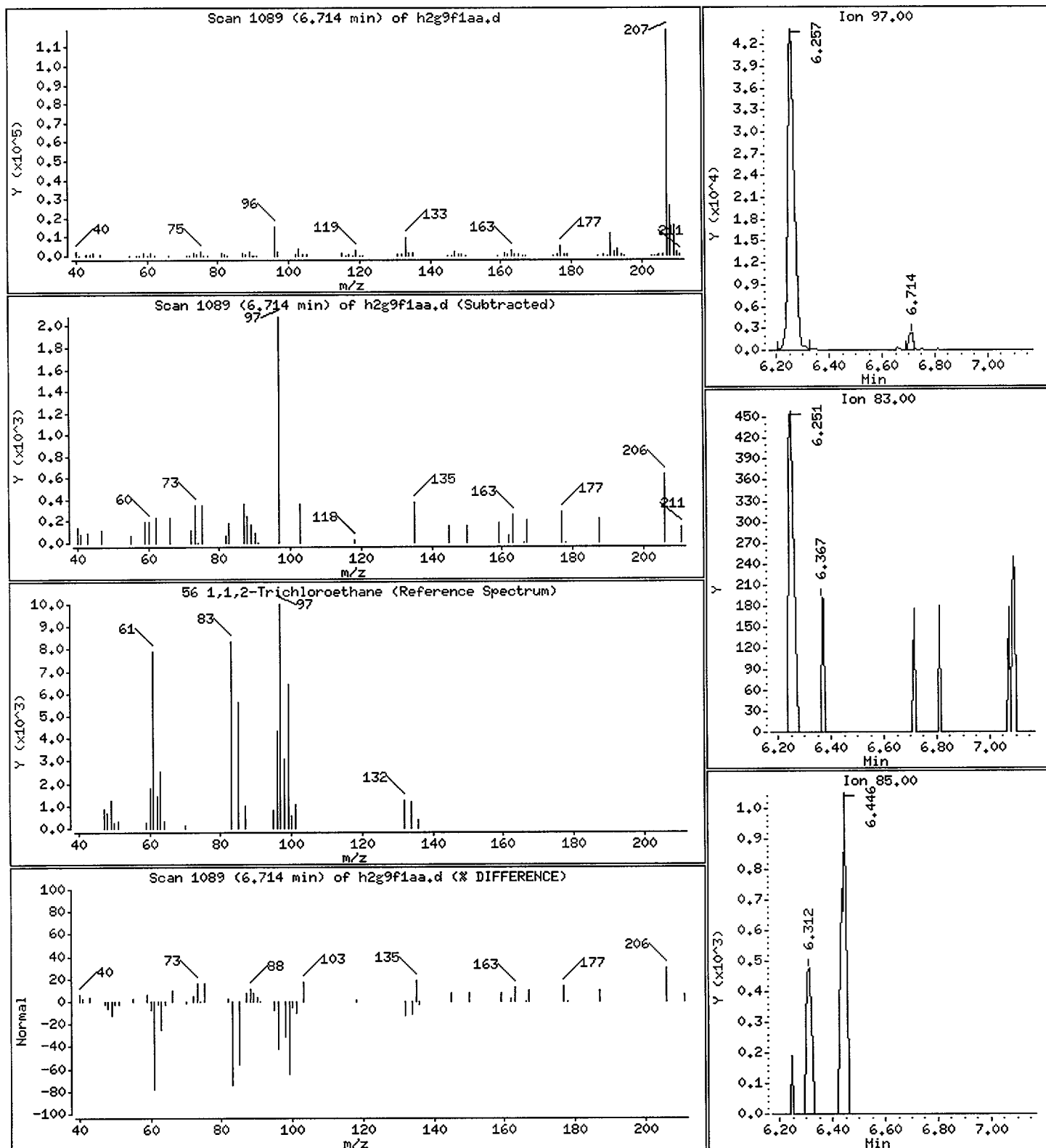
Operator: 22980

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,,,

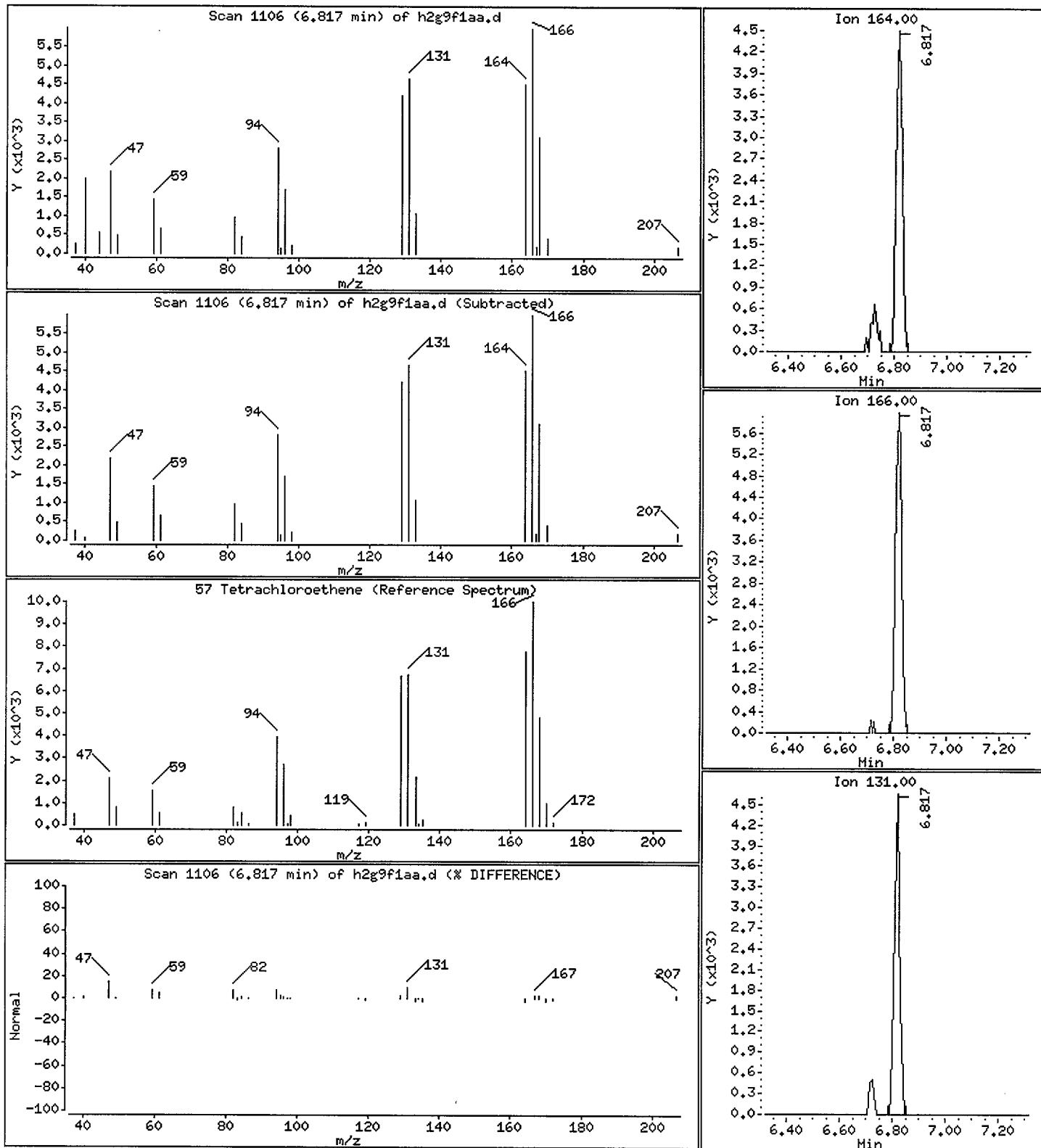
Operator: 22980

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,,,

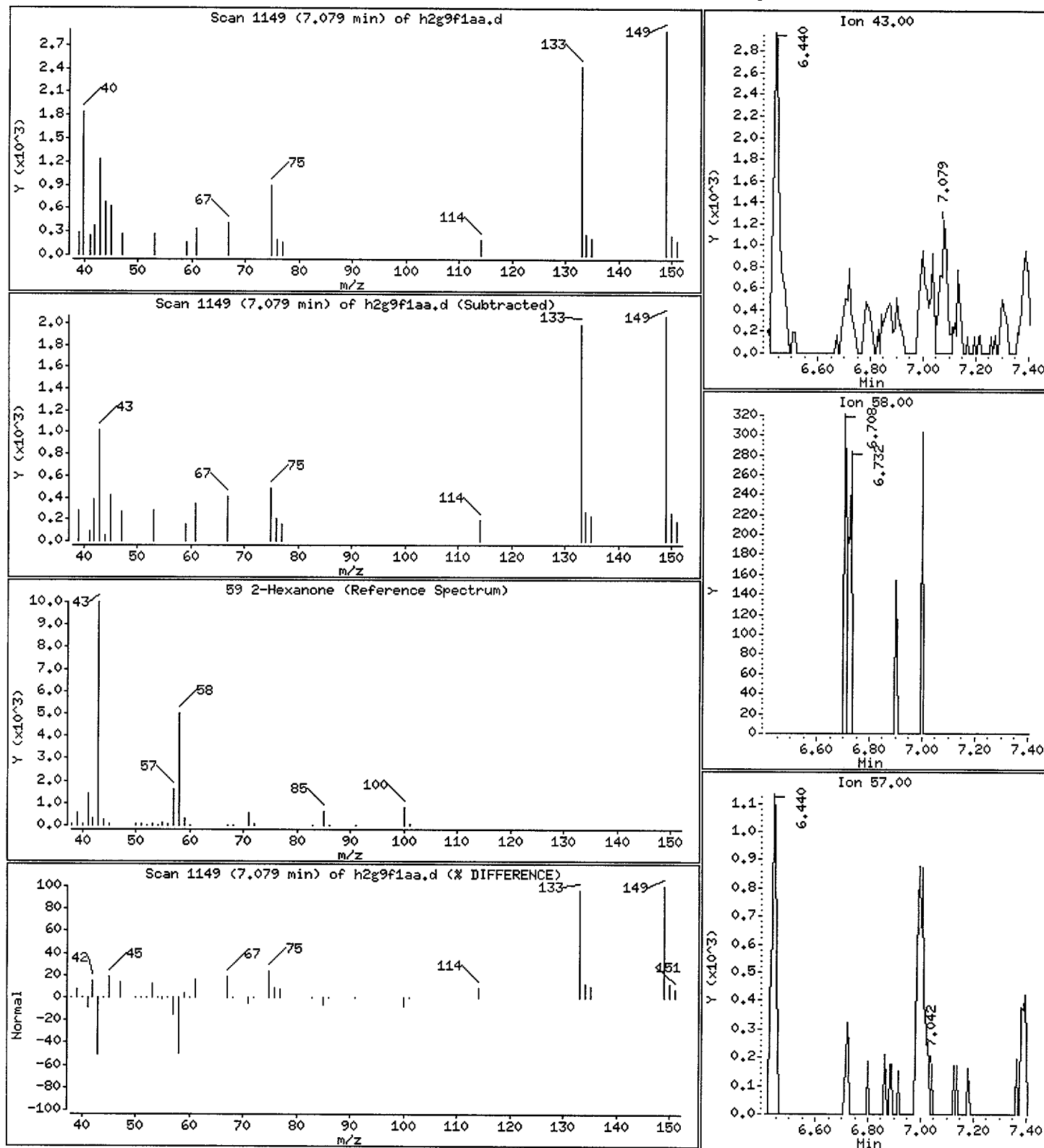
Operator: 22980

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,,

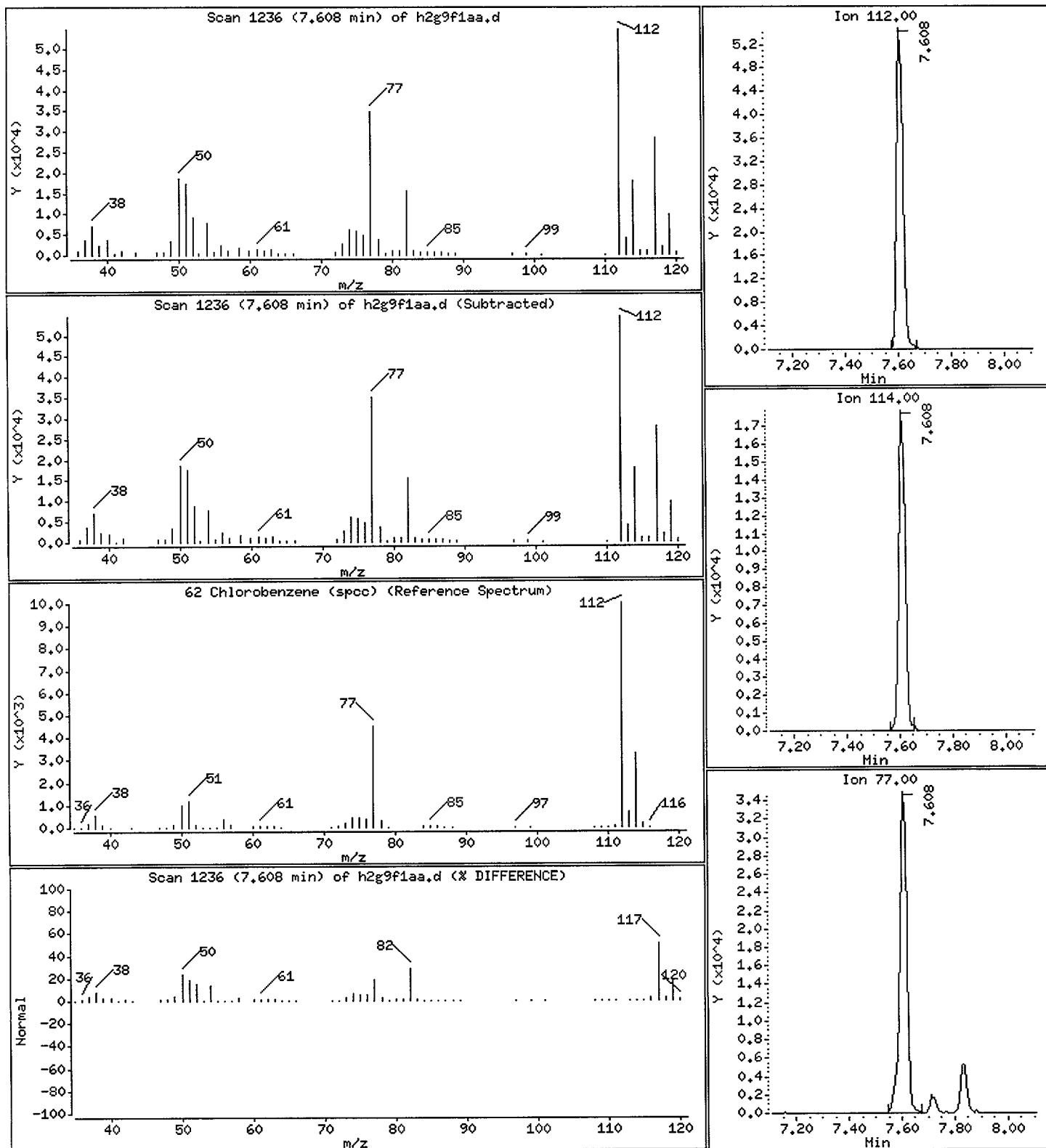
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

62 Chlorobenzene (spoc)

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,,,

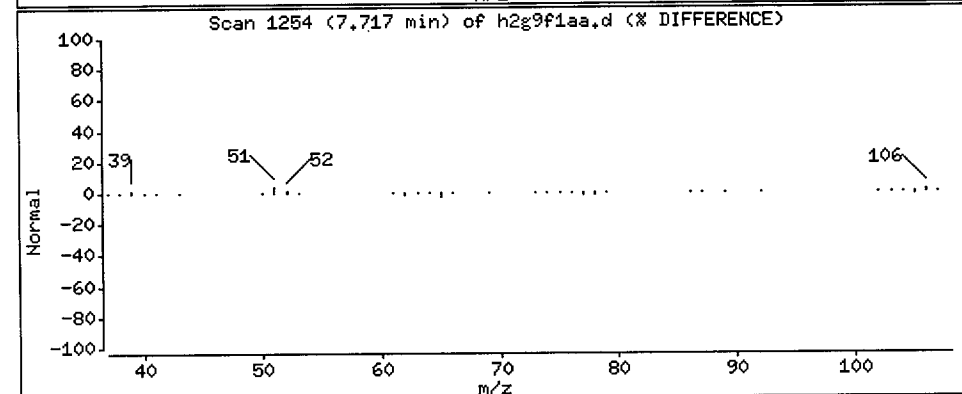
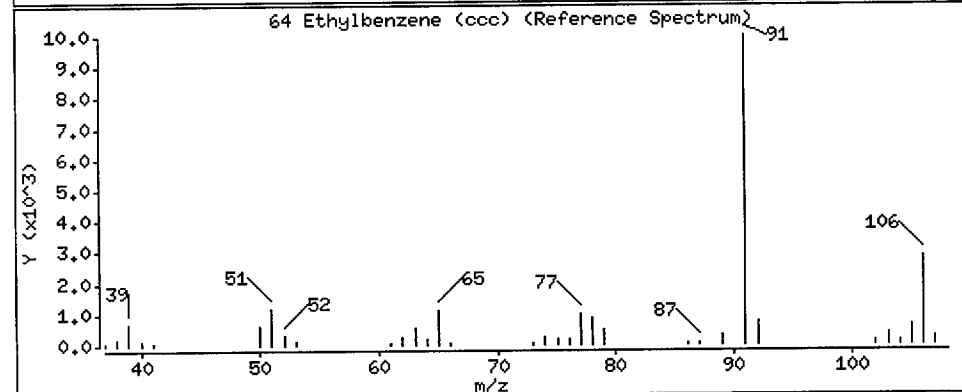
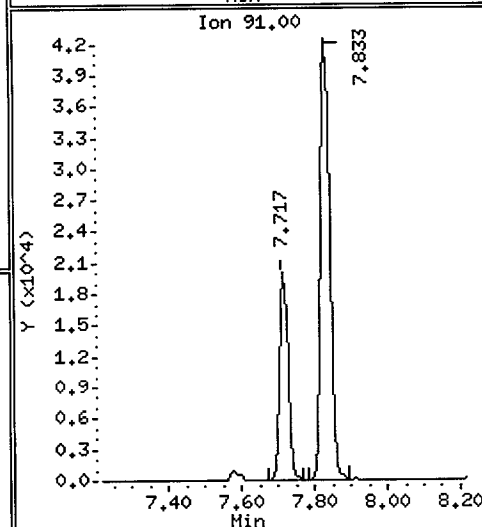
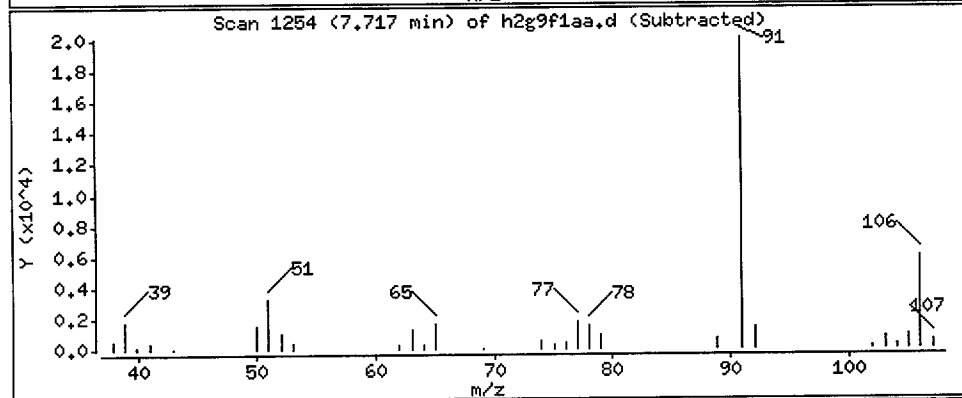
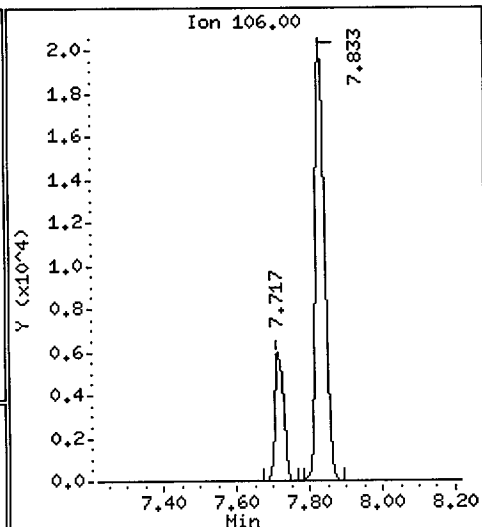
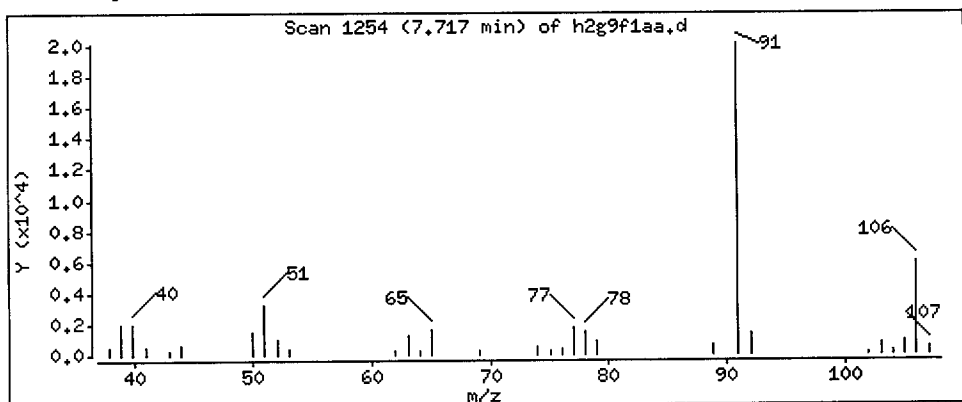
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Concentration: 0.0048869 ug

64 Ethylbenzene (ccc)



Data File: /var/chem/gcms/mx.i/X040706.b/h2g9f1aa.d

Date : 07-APR-2006 12:59

Client ID: C-2914-R1-VOST PAIR

Instrument: mx.i

Sample Info: H2G9F1AA,1,0,,,

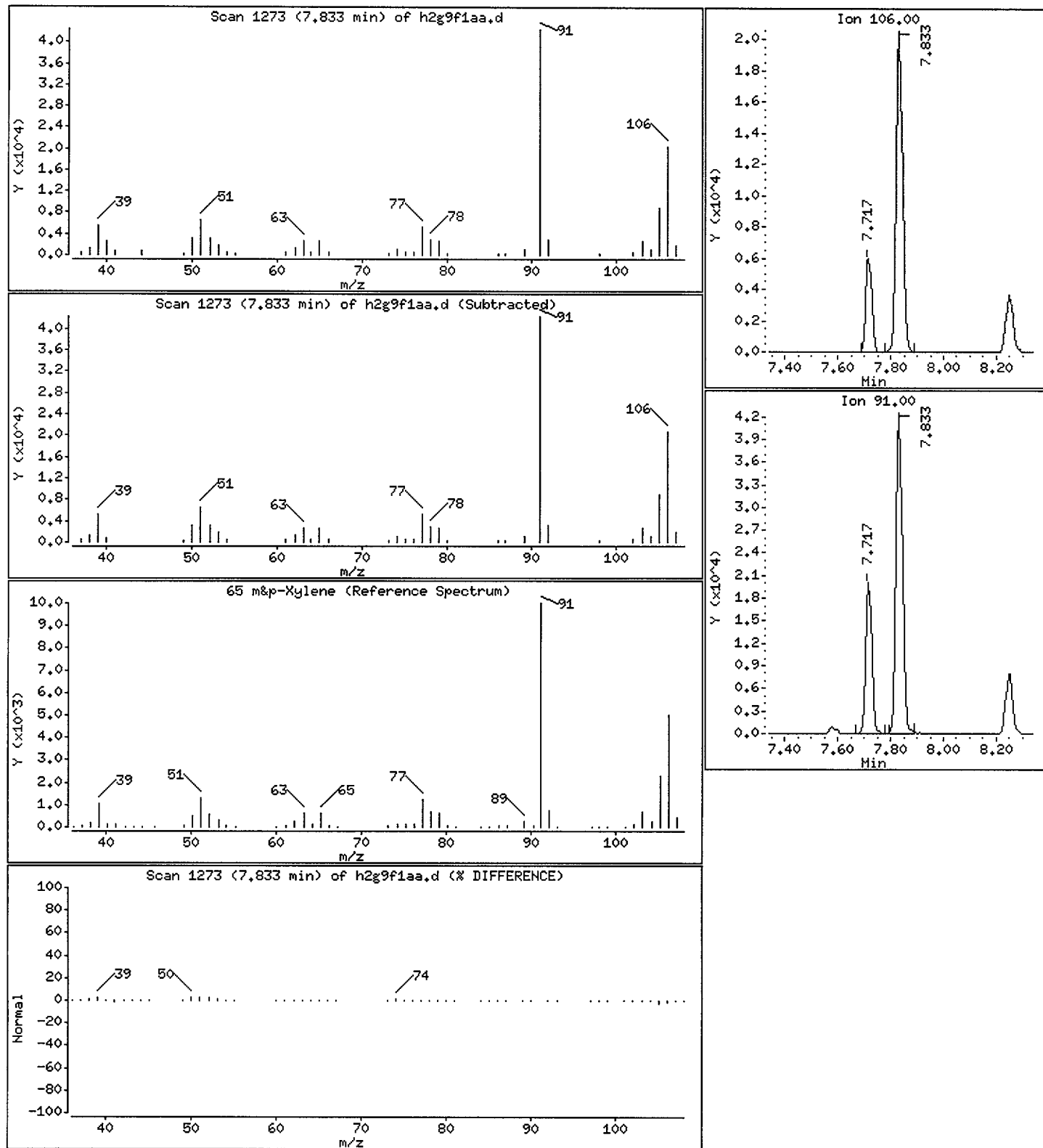
Operator: 22980

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,,,

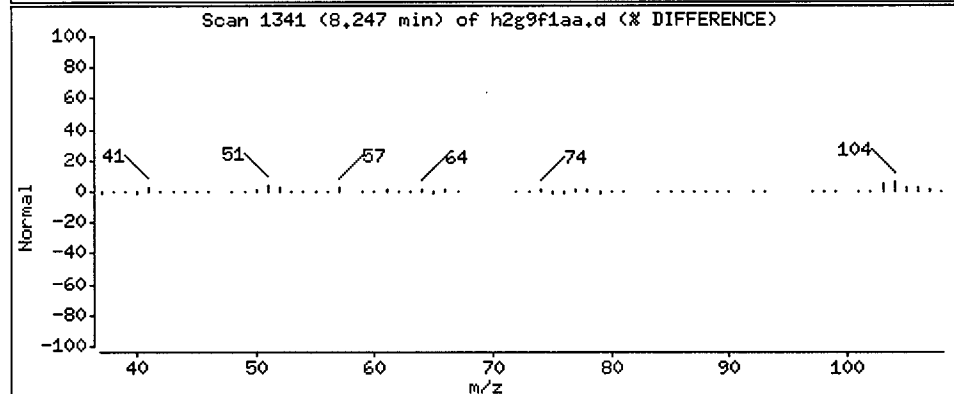
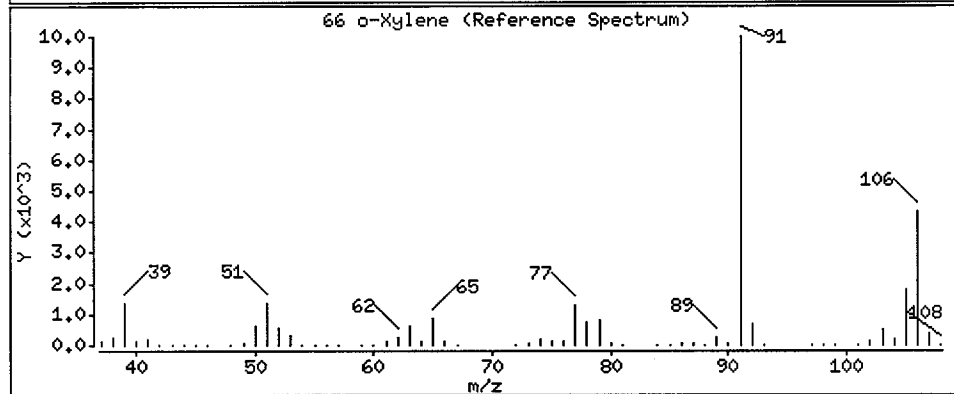
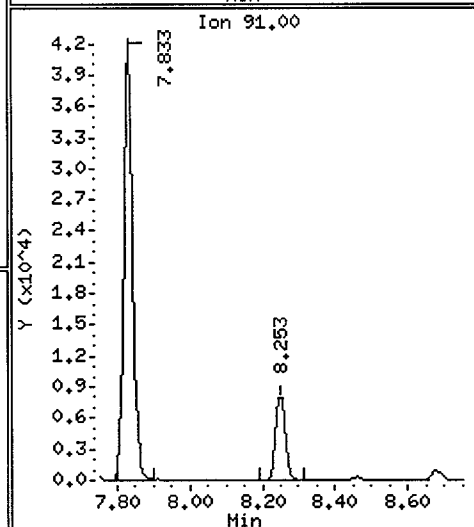
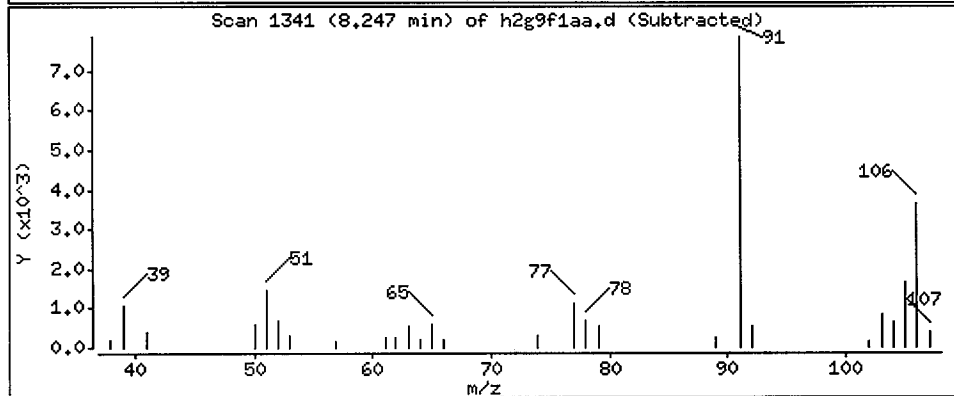
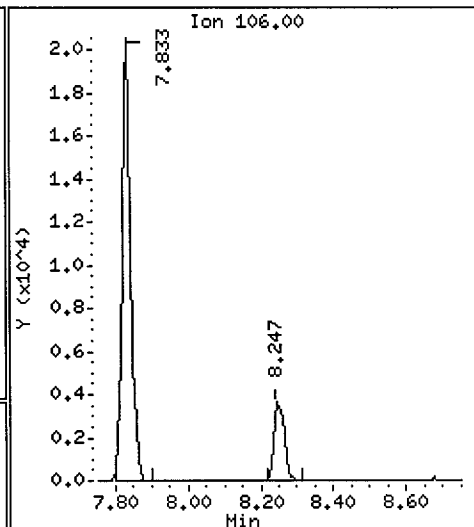
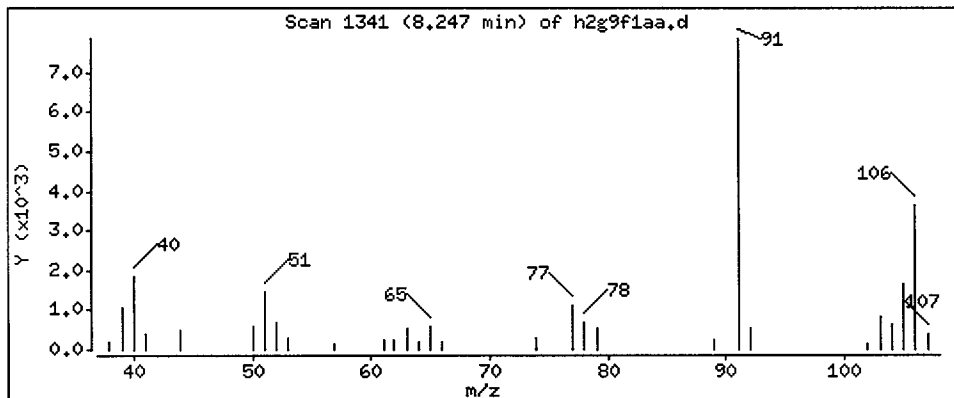
Operator: 22980

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,,

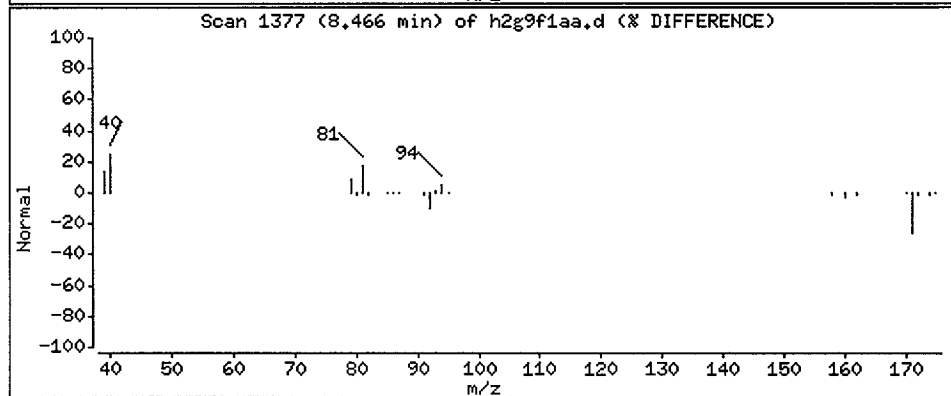
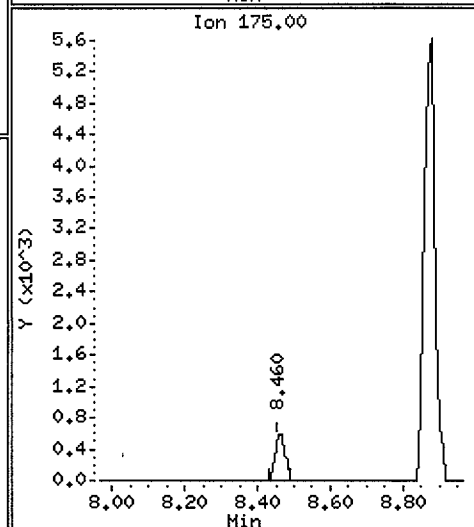
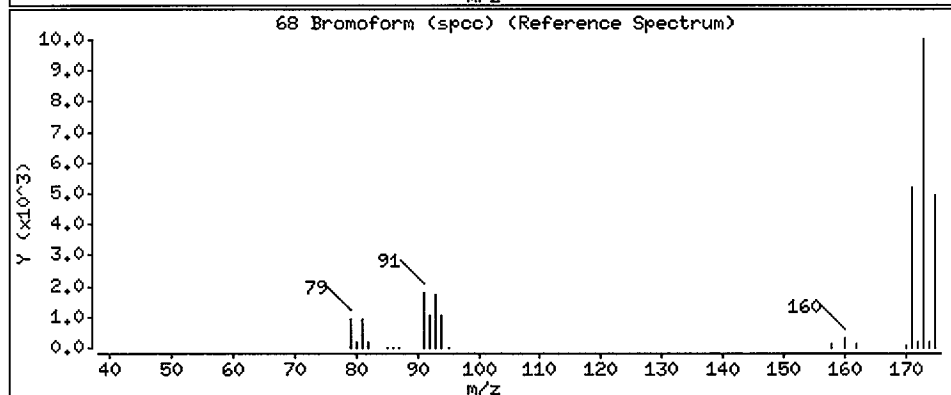
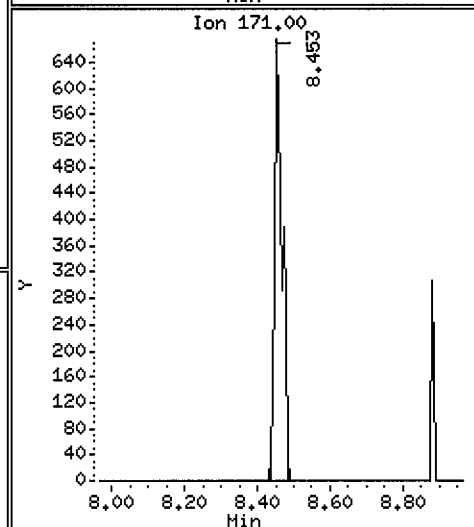
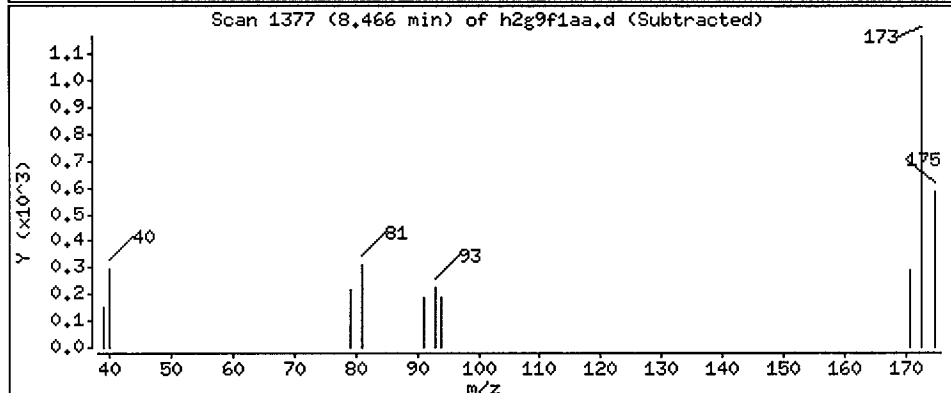
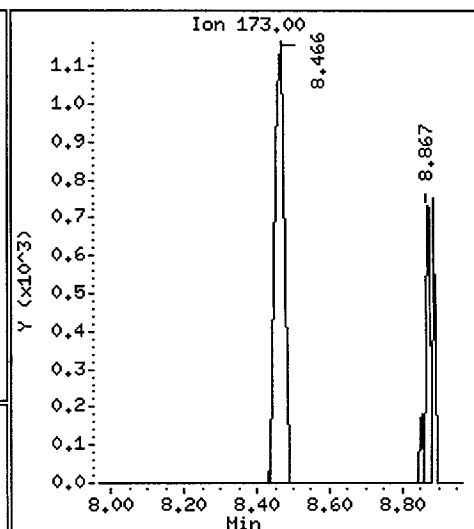
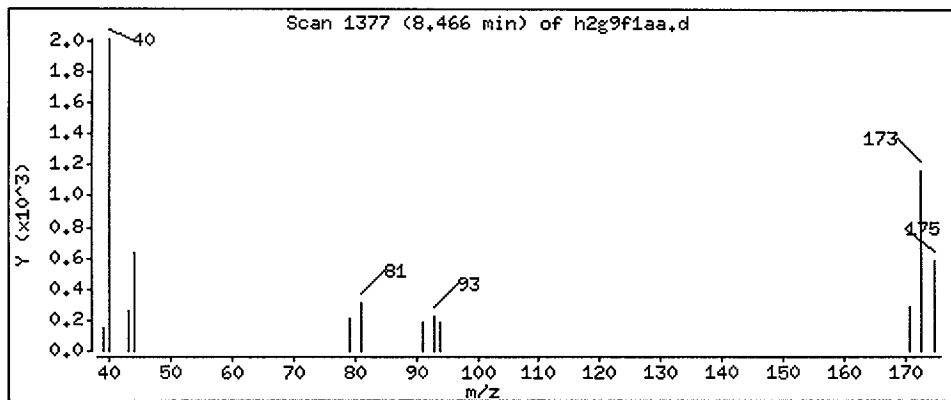
Operator: 22980

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,,,

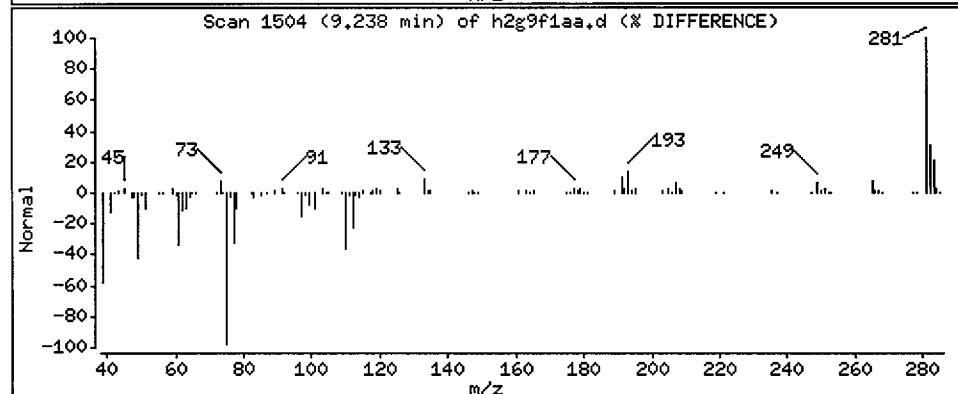
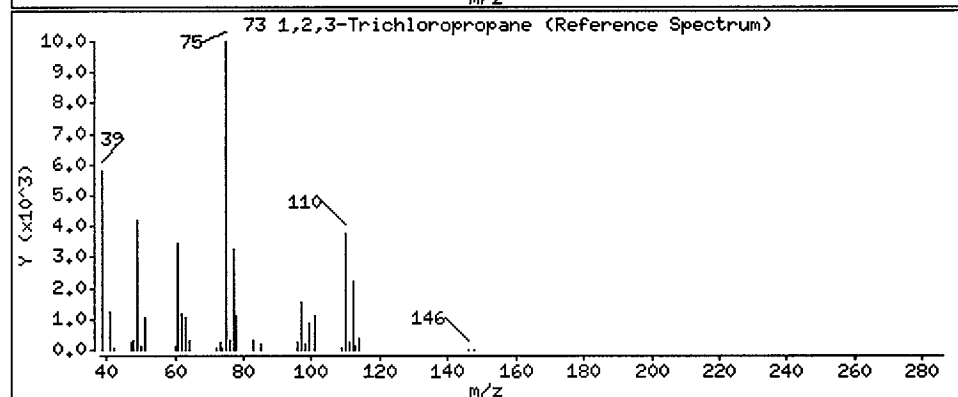
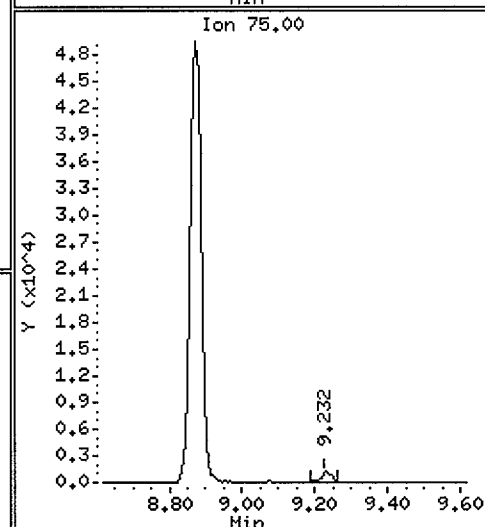
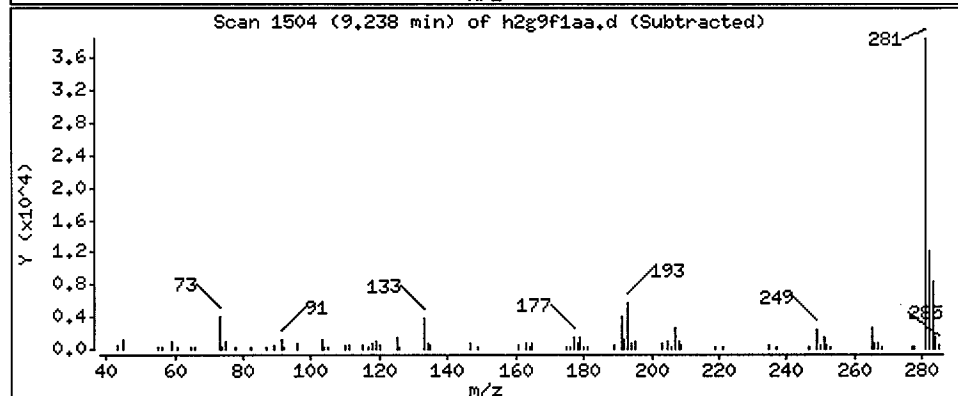
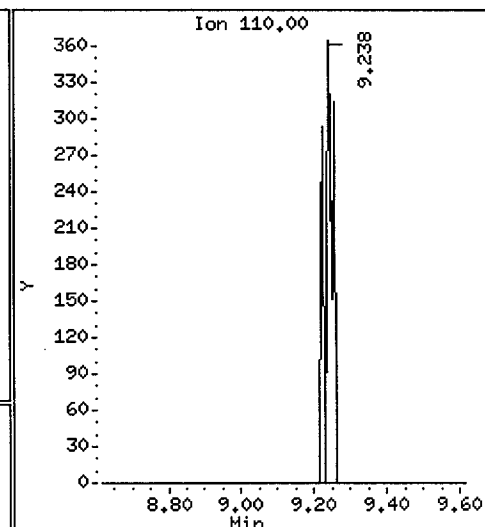
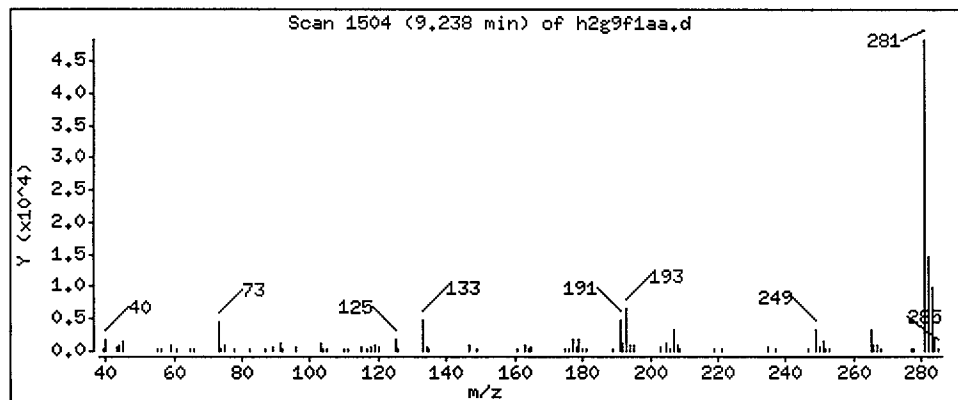
Operator: 22980

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,,,

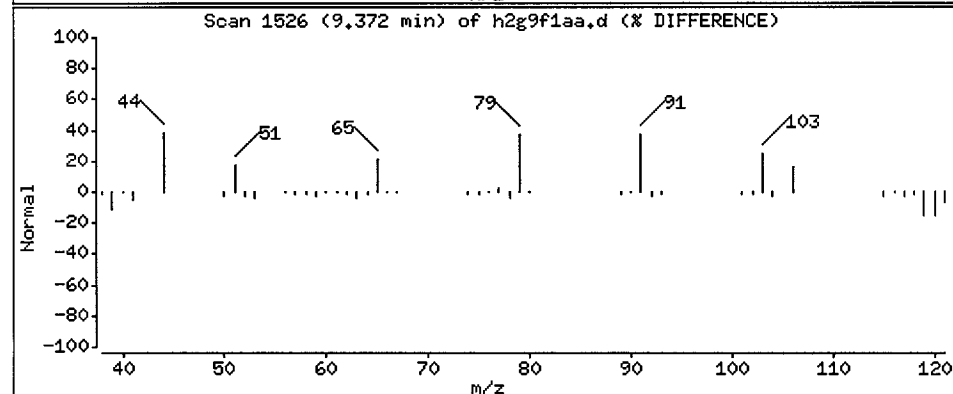
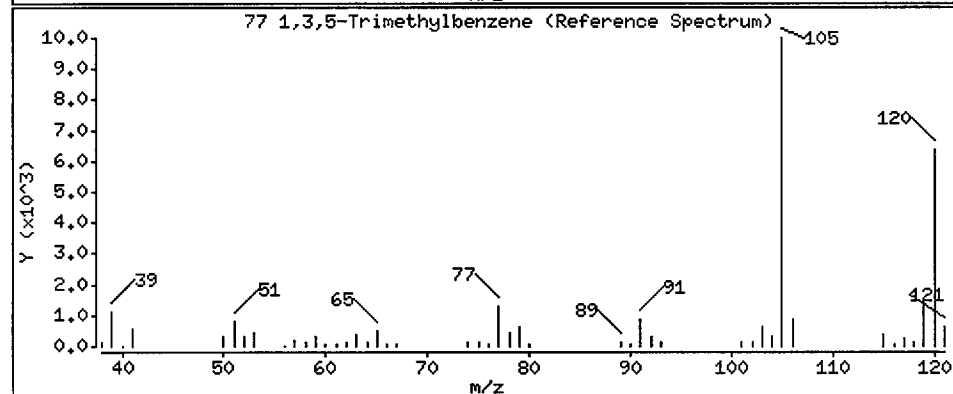
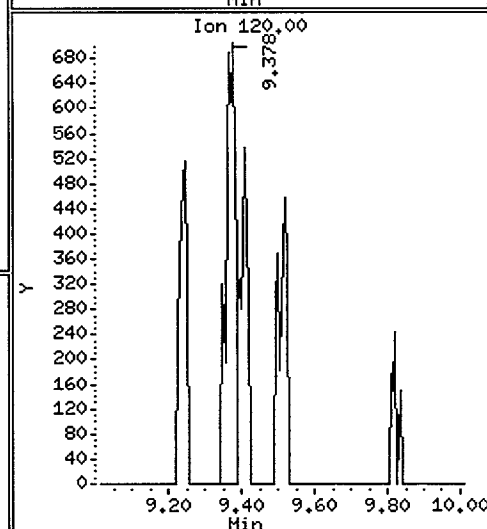
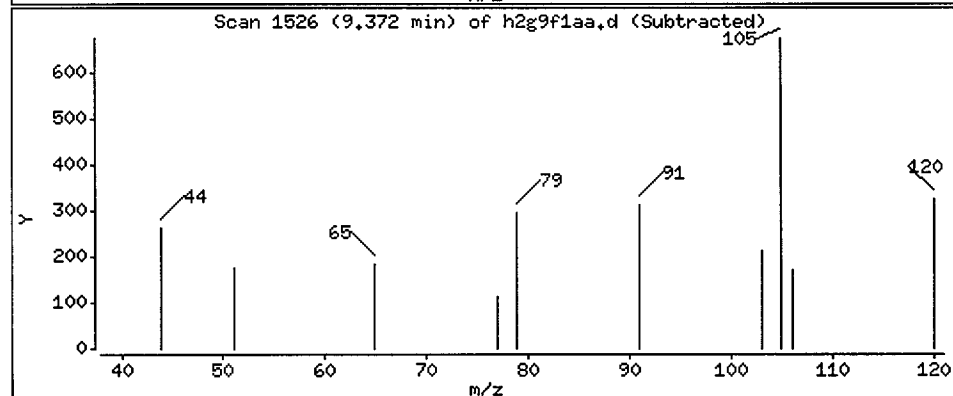
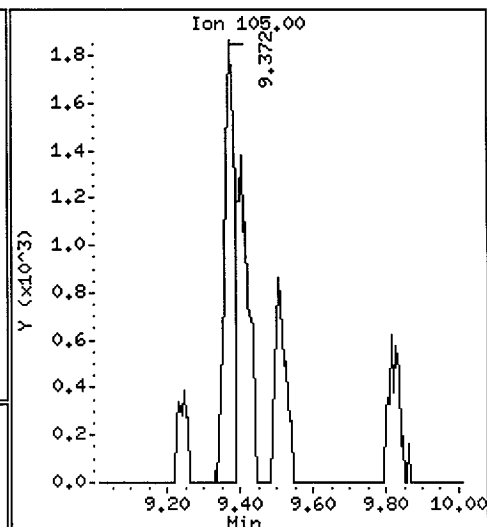
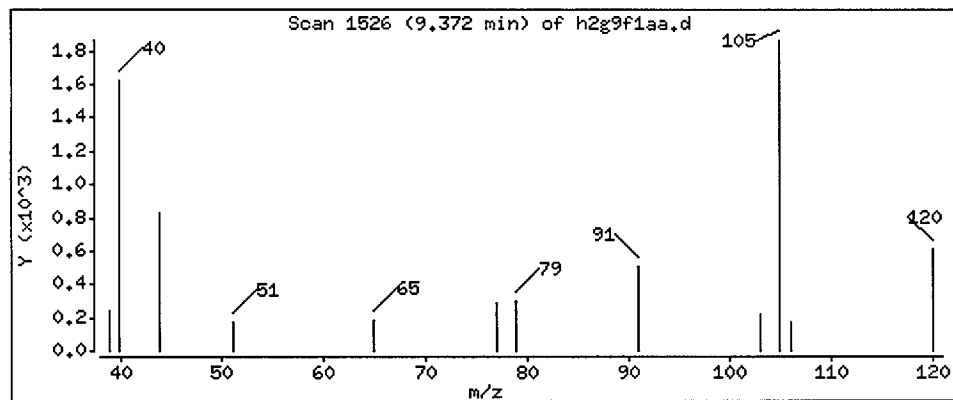
Operator: 22980

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,,,

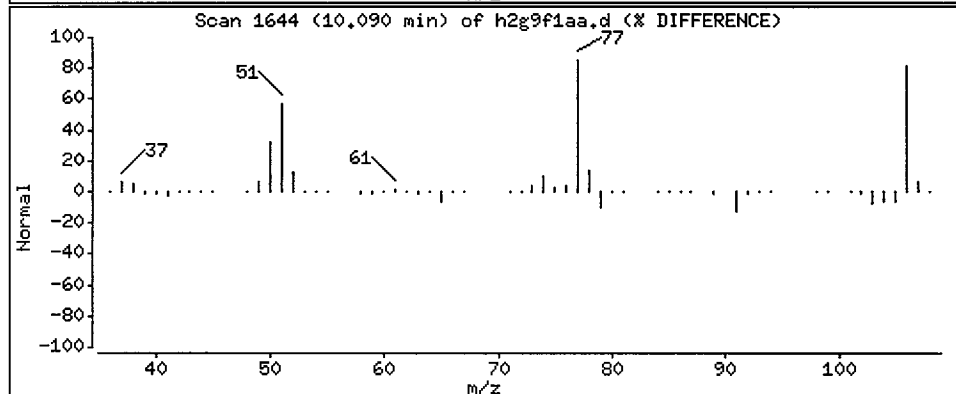
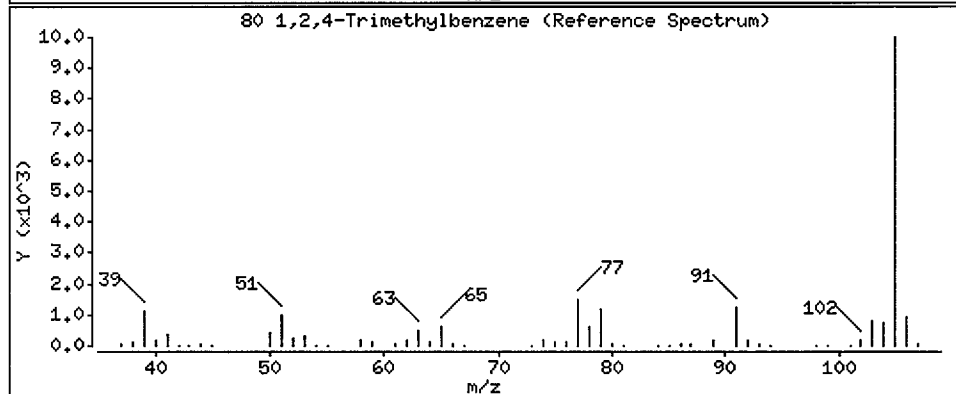
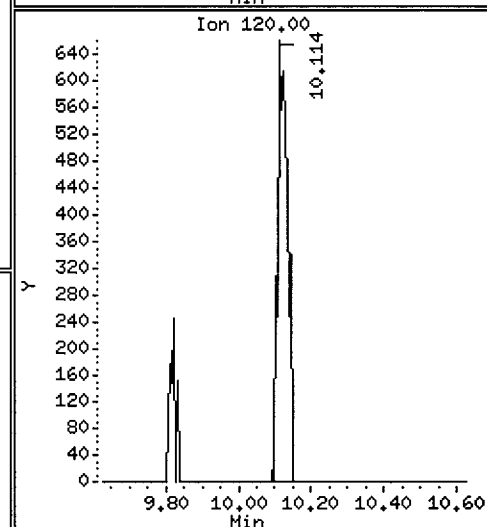
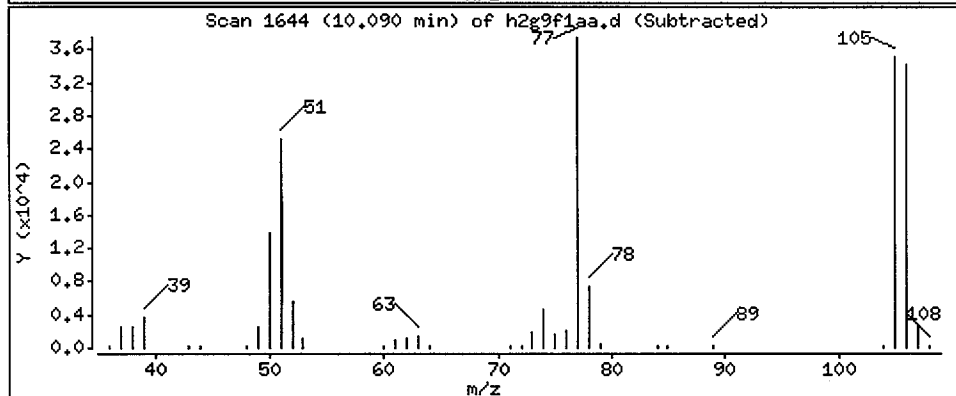
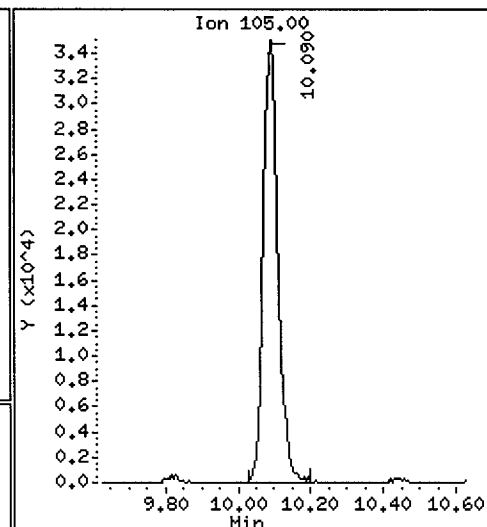
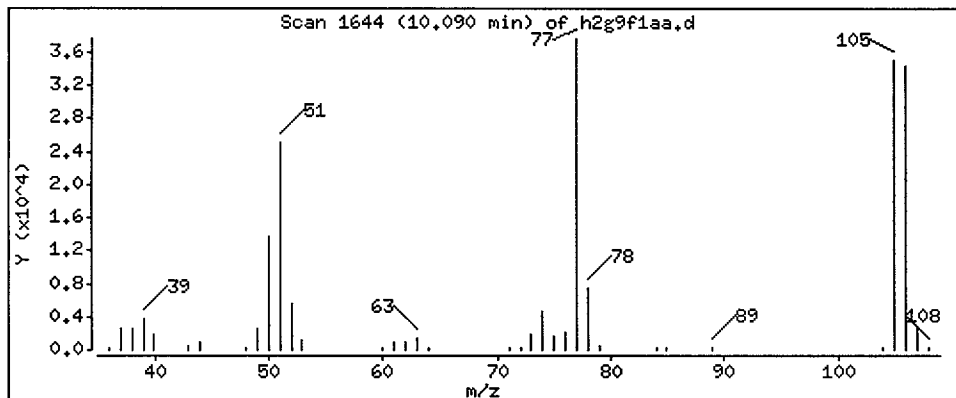
Operator: 22980

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,,,

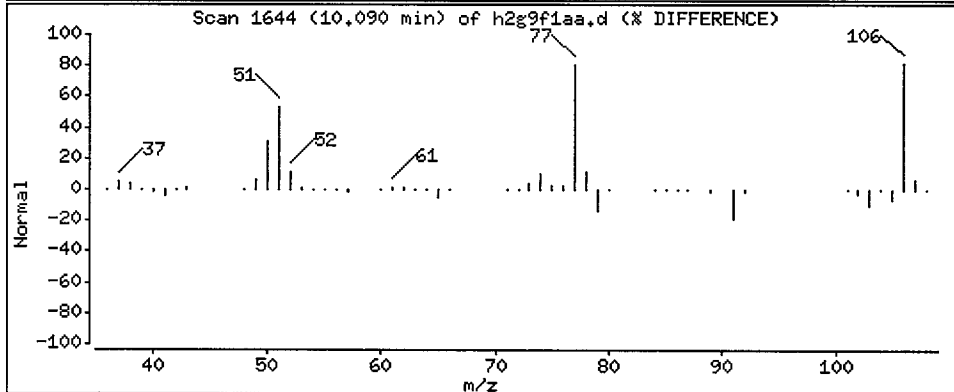
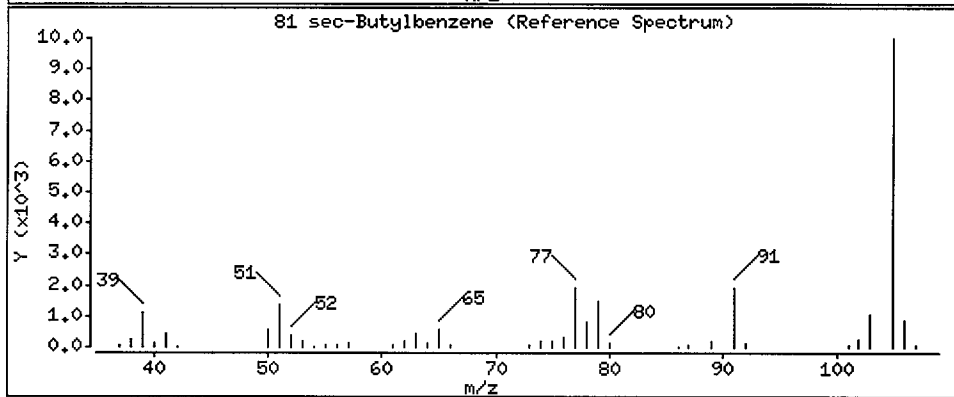
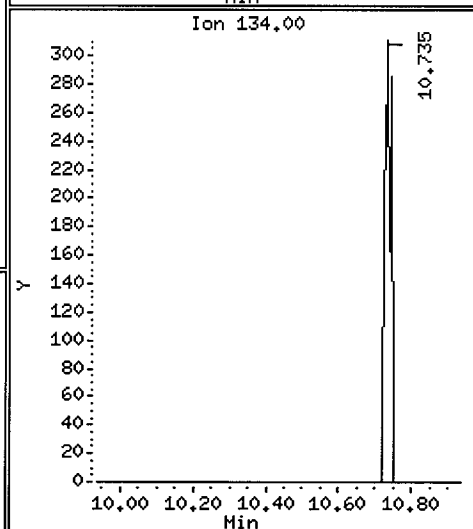
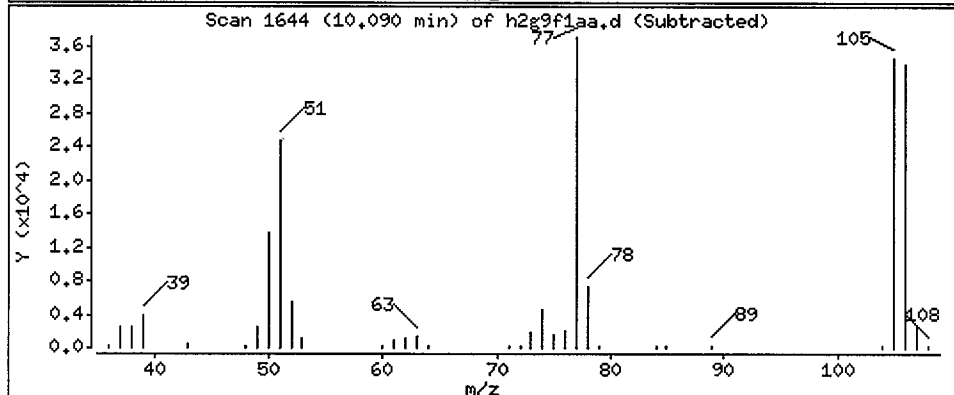
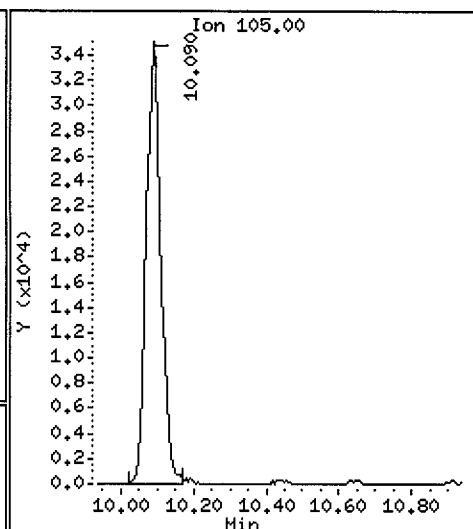
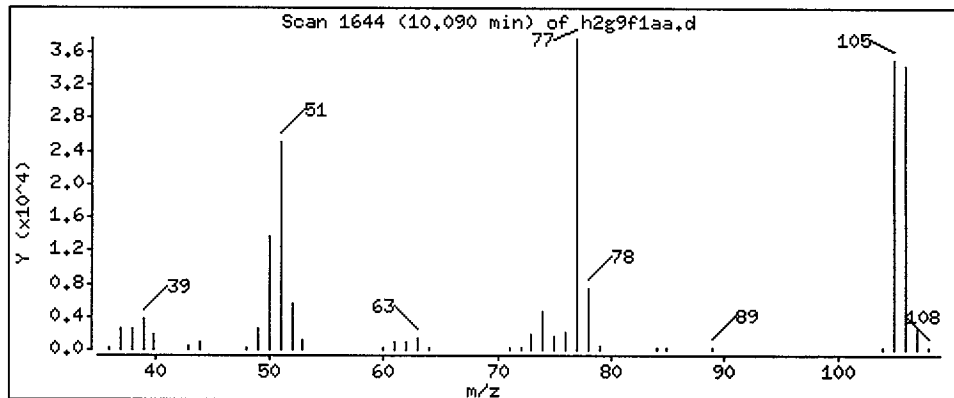
Operator: 22980

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,,,

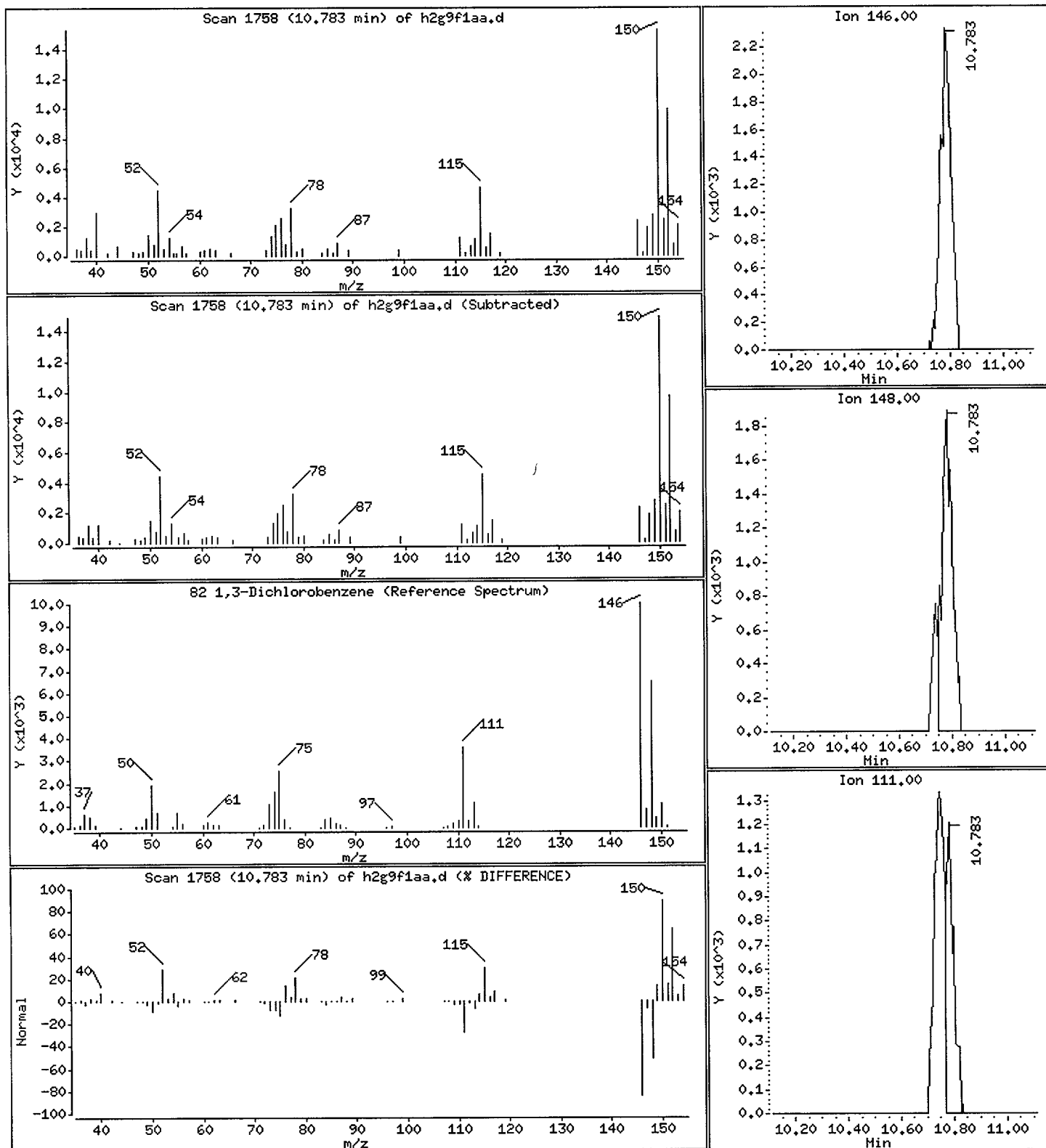
Operator: 22980

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,,,

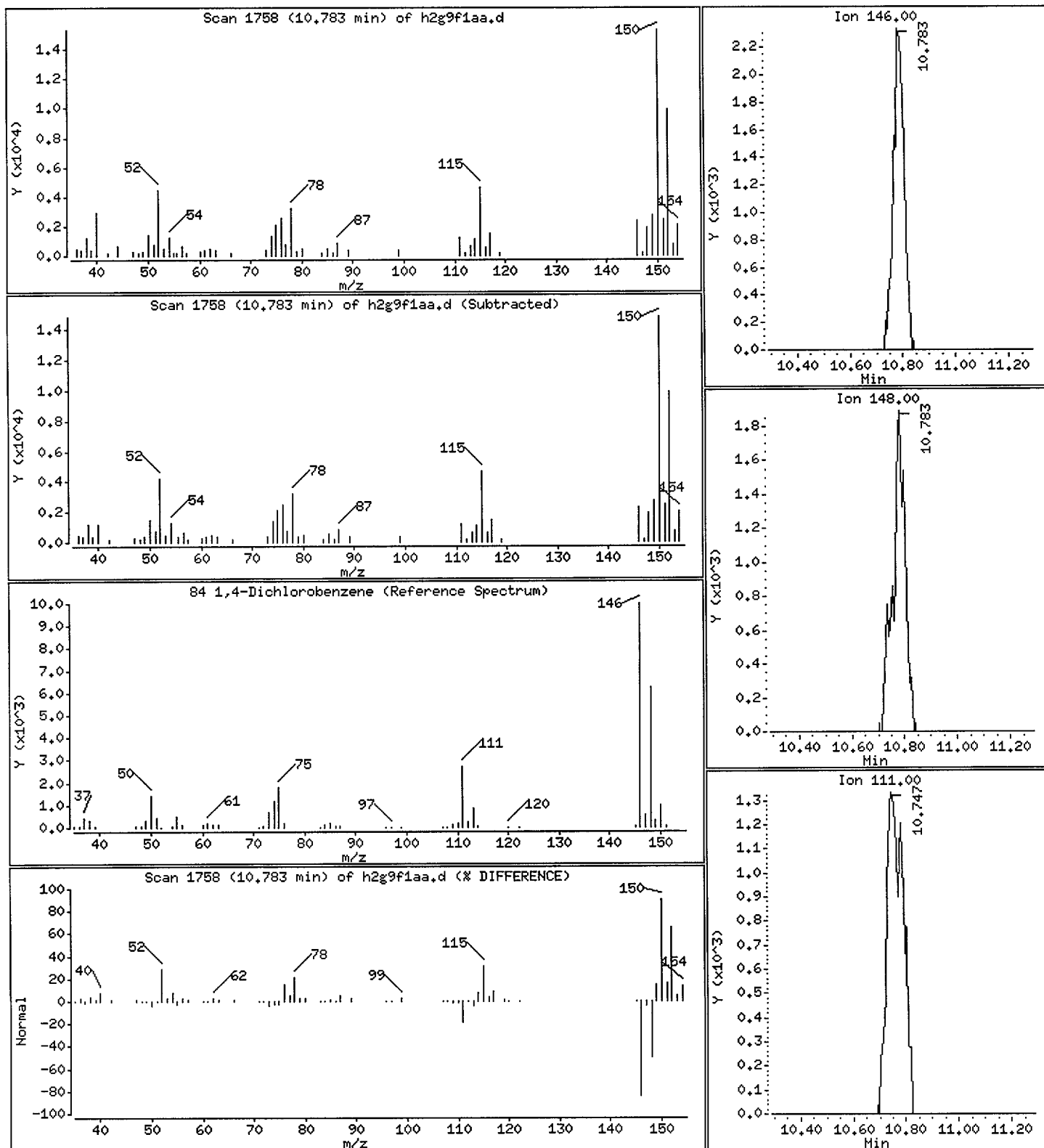
Operator: 22980

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,,,

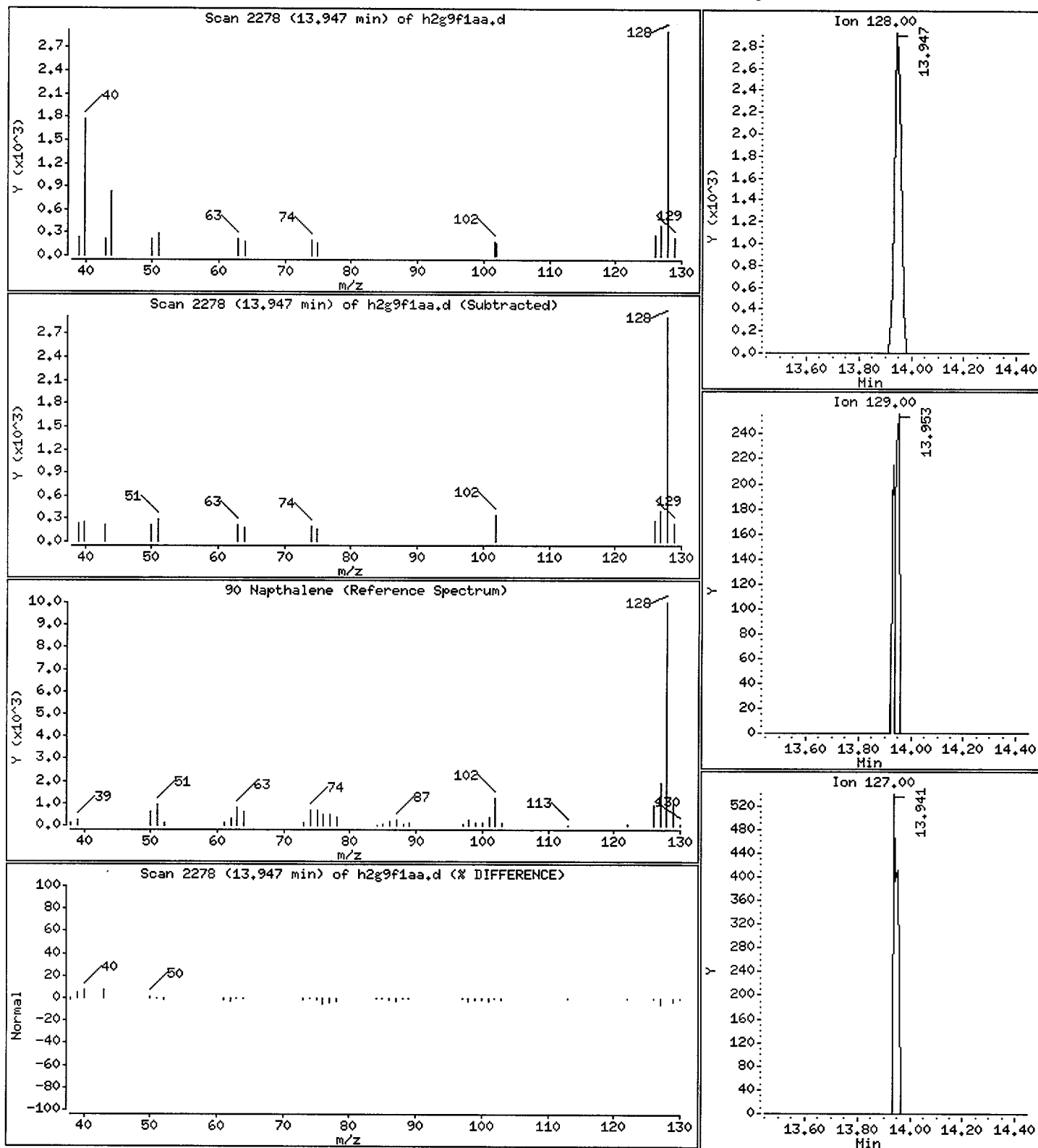
Operator: 22980

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

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ug/L)	FINAL(ug)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Cyclotrisiloxane, hexamethyl-	6.720	327576	2.11075442	91	CAS #: 541-05-9 NIST02.1	71175	2
Cyclotetrasiloxane, octamethyl-	9.238	143518	2.32519859	86	CAS #: 556-67-2 NIST02.1	115616	3
Benzaldehyde	10.090	191365	3.10038900	97	CAS #: 100-52-7 NIST02.1	4942	3
Benzoic acid, 2-[(trimethylsilyl)oxy]	12.444	78454	1.27106795	39	CAS #: 3789-85-3 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

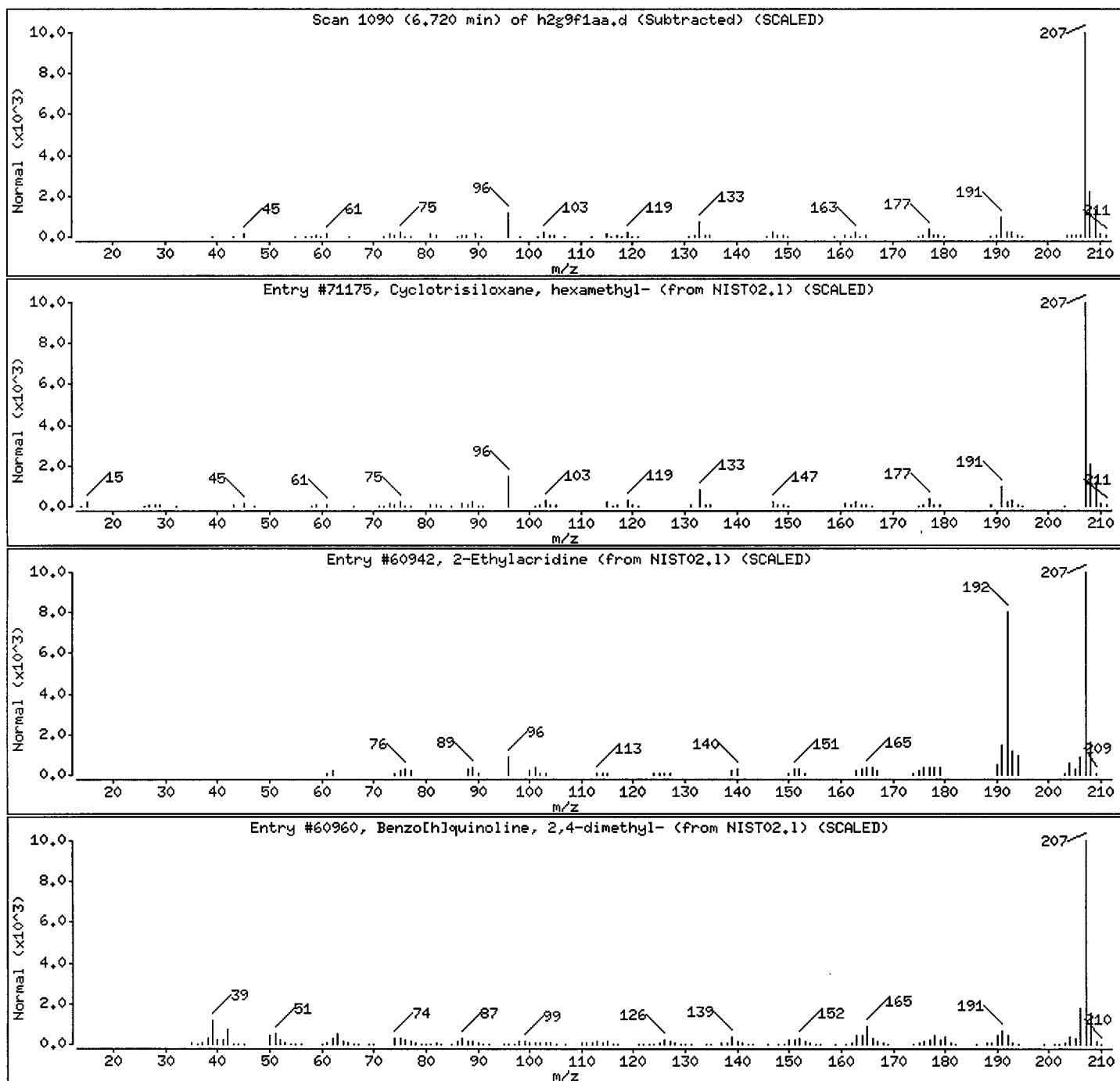
Sample Info: H2G9F1AA,1,0,,

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	C ₆ H ₁₈ O ₃ Si ₃	222
2-Ethylacridine	55751-83-2	NIST02.1	60942	45	C ₁₅ H ₁₃ N	207
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST02.1	60960	39	C ₁₅ H ₁₃ N	207



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,,,

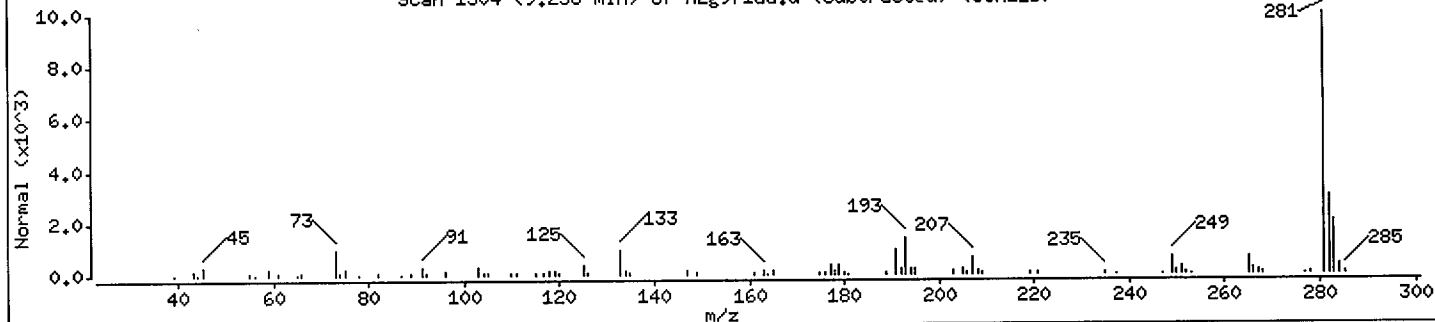
Operator: 22980

Column phase: J+W 624

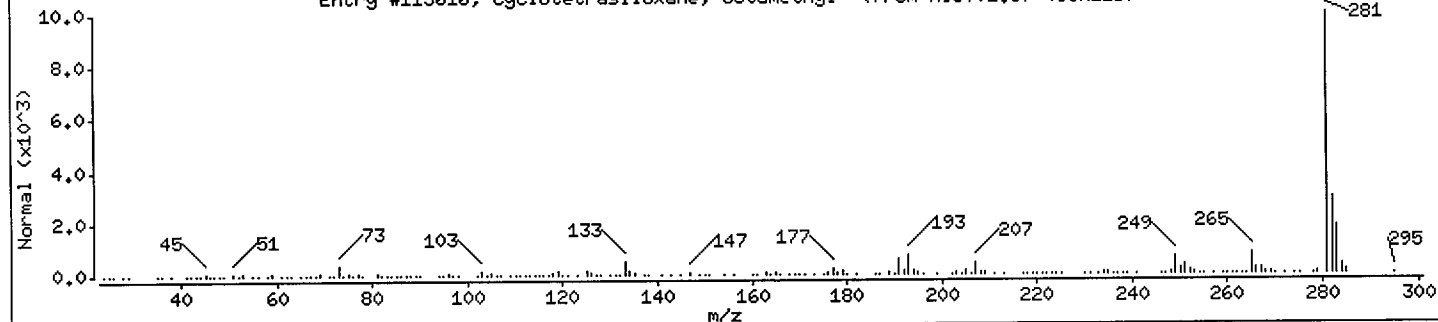
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115616	86	C ₈ H ₂₄ O ₄ Si ₄	296
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST02.1	115078	50	C ₁₄ H ₂₄ O ₃ Si ₂	296
4-Nitro-4'-chlorodiphenylsulfoxide	24535-53-3	NIST02.1	106560	49	C ₁₂ H ₈ ClNO ₃ S	281

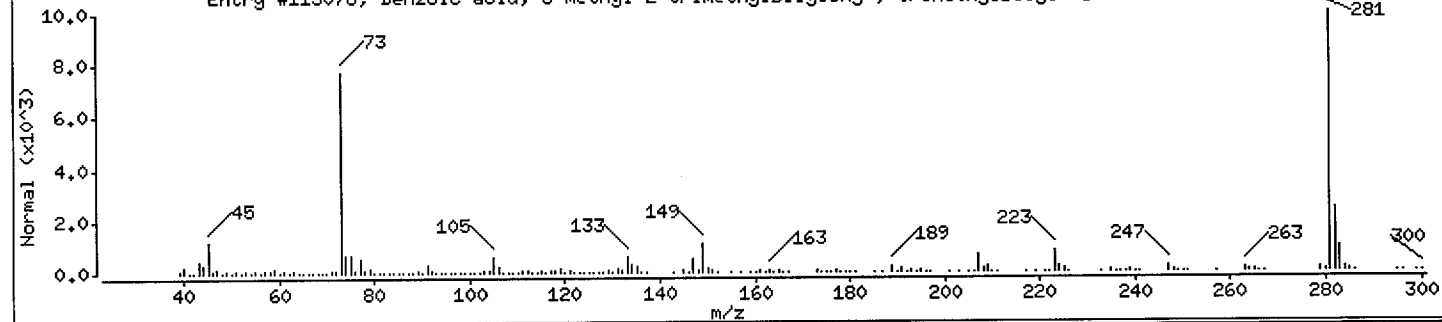
Scan 1504 (9.238 min) of h2g9f1aa.d (Subtracted) (SCALED)



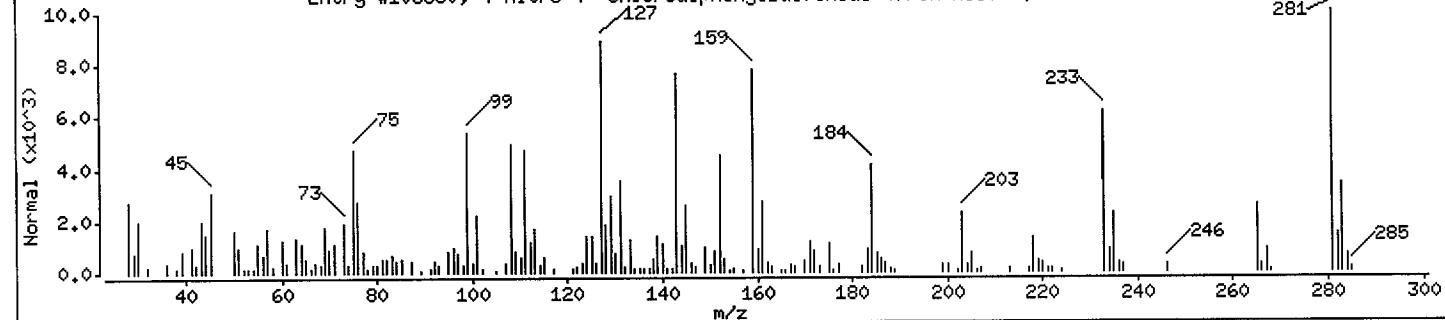
Entry #115616, Cyclotetrasiloxane, octamethyl- (from NIST02.1) (SCALED)



Entry #115078, Benzoic acid, 3-methyl-2-trimethylsilyloxy-, trimethylsilyl ester (from NIST02.1) (SCALED)



Entry #106560, 4-Nitro-4'-chlorodiphenylsulfoxide (from NIST02.1) (SCALED)



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

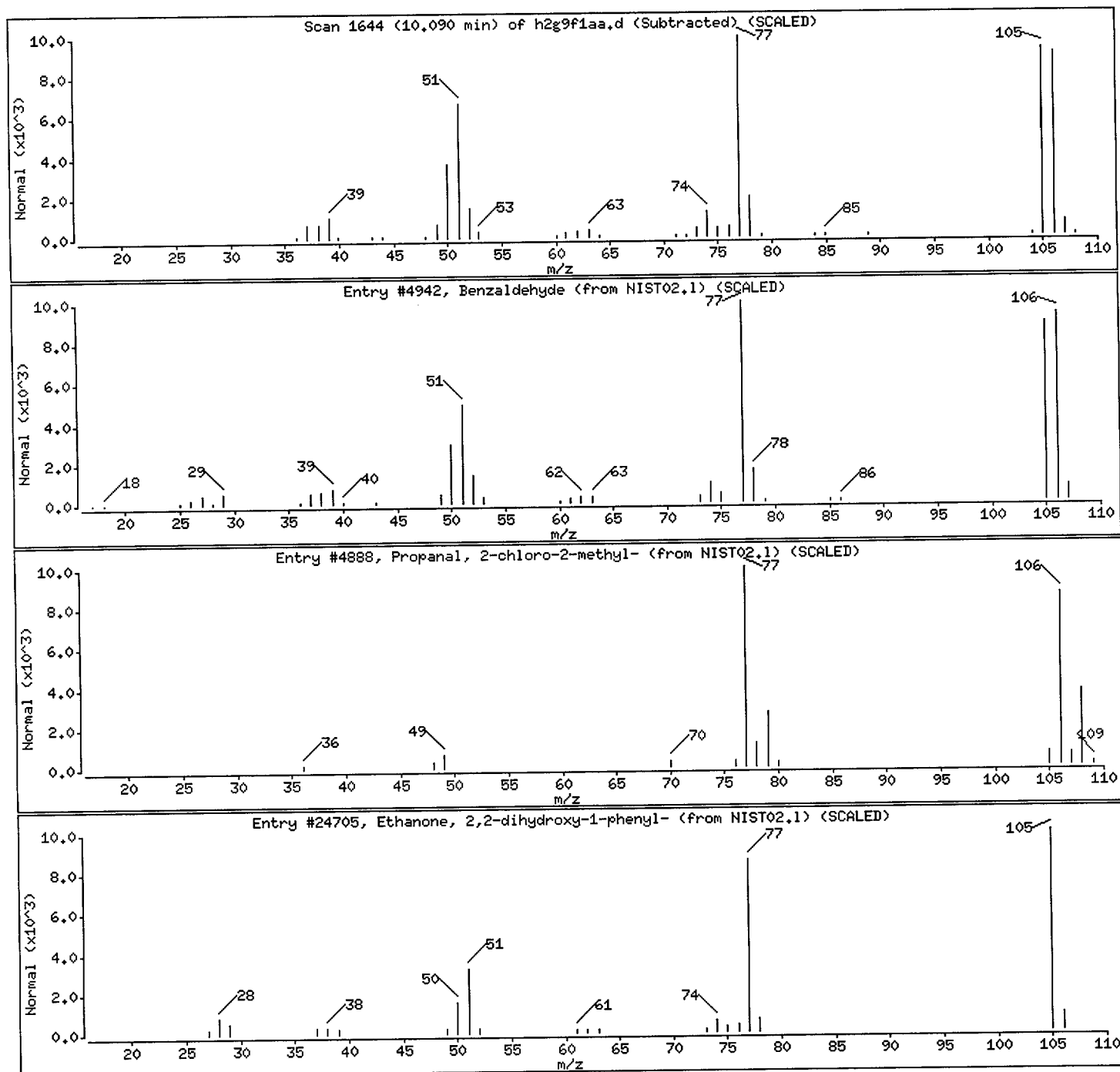
Sample Info: H2G9F1AA,1,0,,,

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	C4H7ClO	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

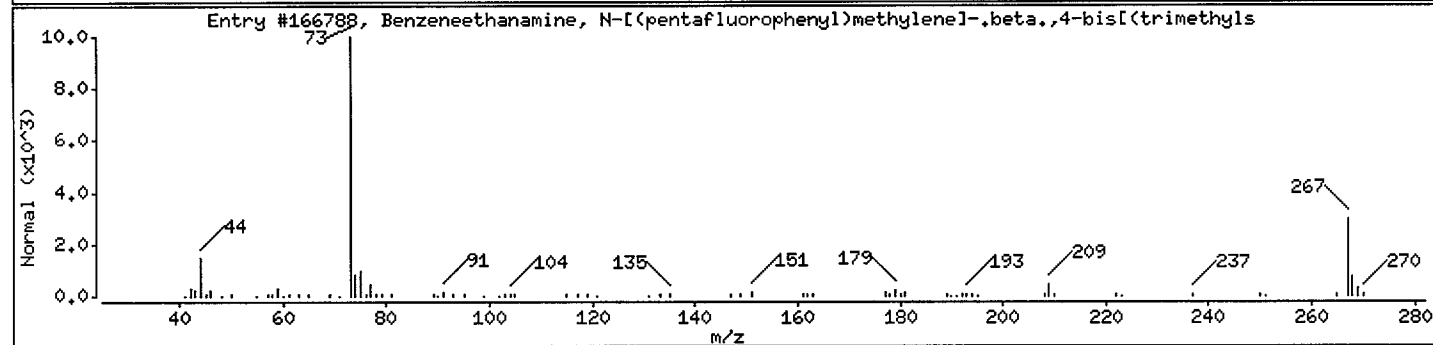
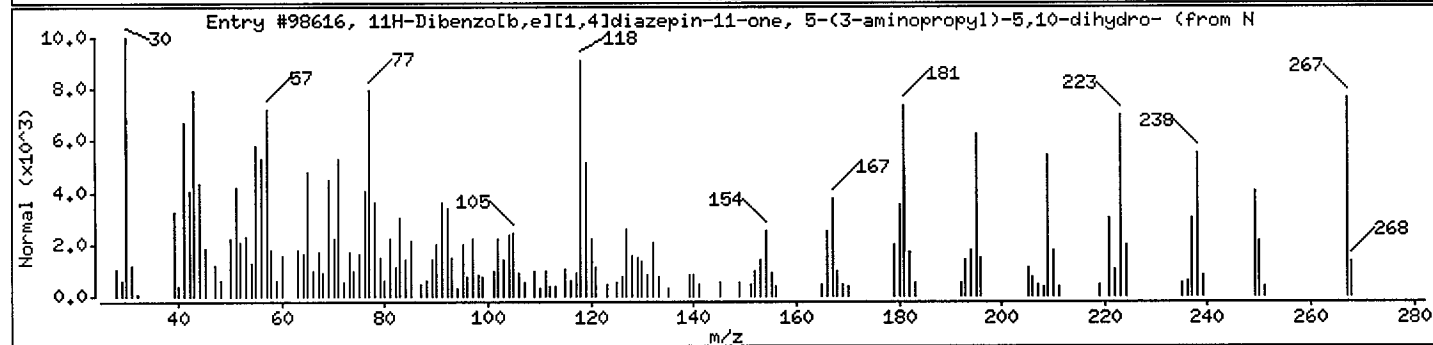
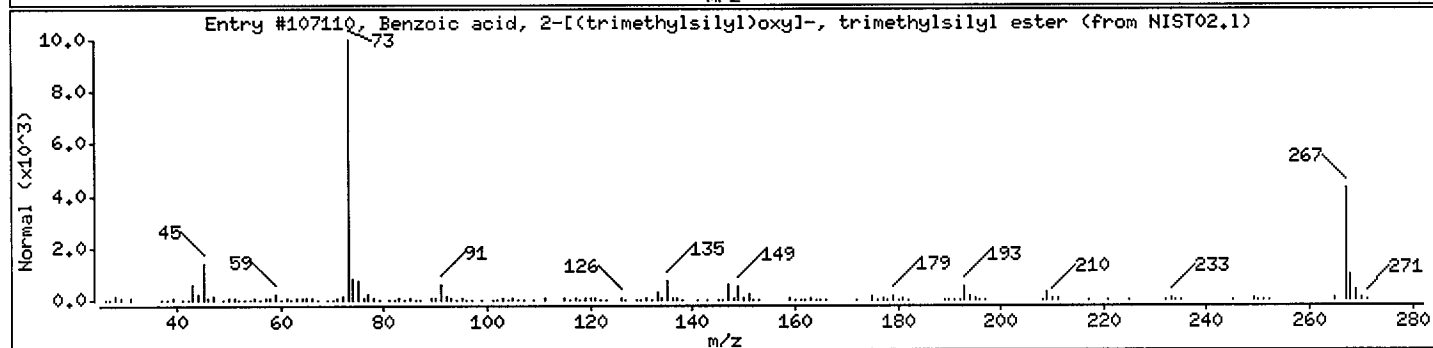
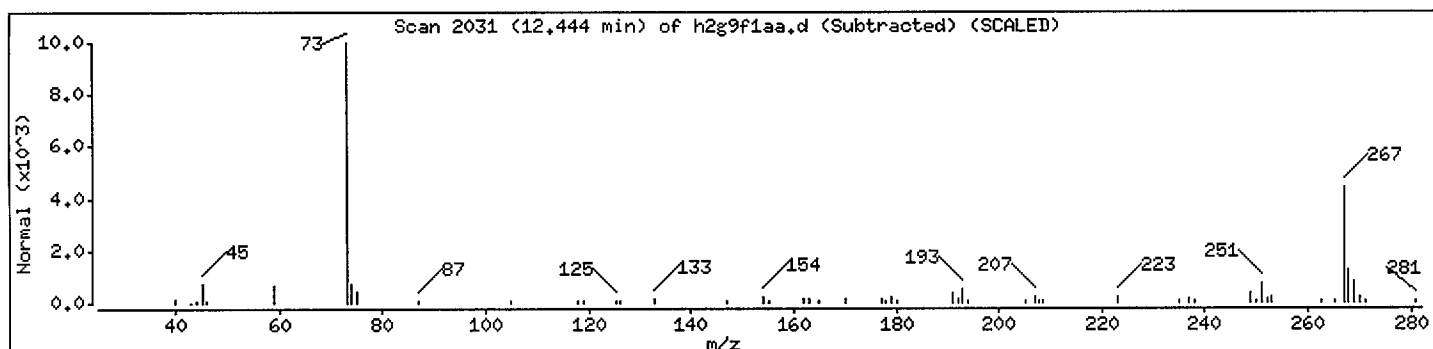
Sample Info: H2G9F1AA,1,0,,,

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	C ₁₃ H ₂₂ O ₃ Si ₂	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-	13450-73-2	NIST02.1	98616	38	C ₁₆ H ₁₇ N ₃ O	267
Benzeneethanamine, N-[(pentafluorophenyl	55429-85-1	NIST02.1	166788	32	C ₂₁ H ₂₆ F ₅ N ₂ O ₂ S	425



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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/L)	(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

7/24/06

Data File: /chem/gcms/mz.i/Z040706.b/h2g9g1aa.d

Report Date: 07-Apr-2006 17:25

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	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	~~0.010676~~
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

7/4.14.06

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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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	Client SDG: H6D030169
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: H2G9G1AA	Client Smp ID: G-2915-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/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	0.28605	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/2040706.b/h2g9g1aa.d

Date: 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

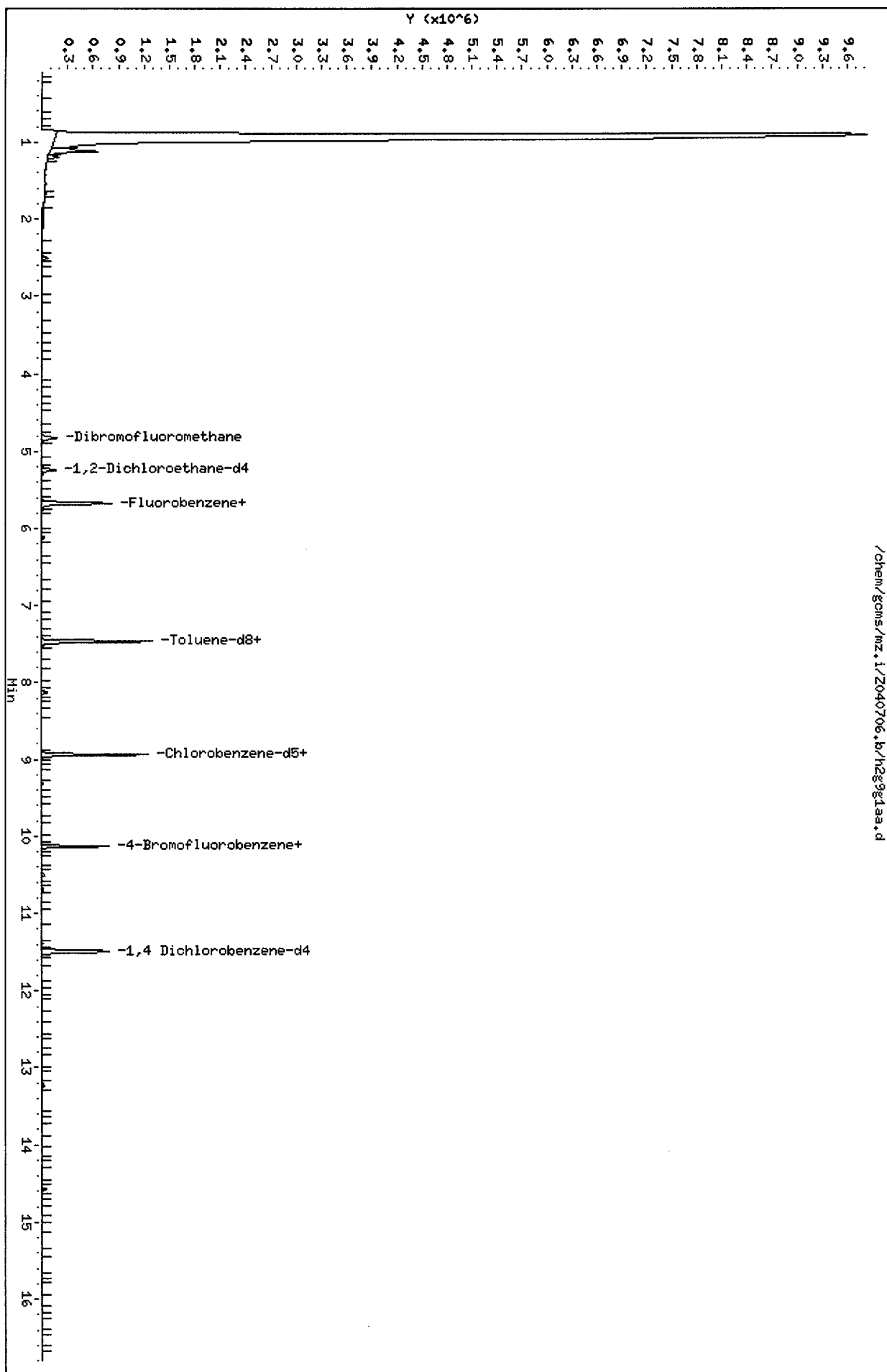
Sample Info: H2C9G1AA,1,0,,

Column phase: J+W 624

Instrument: mz.i

Operator: 22980

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,,

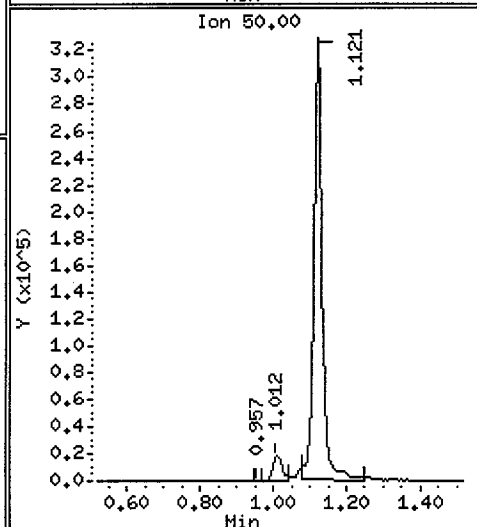
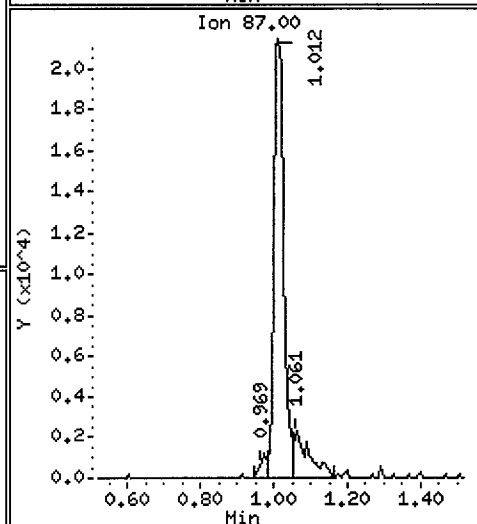
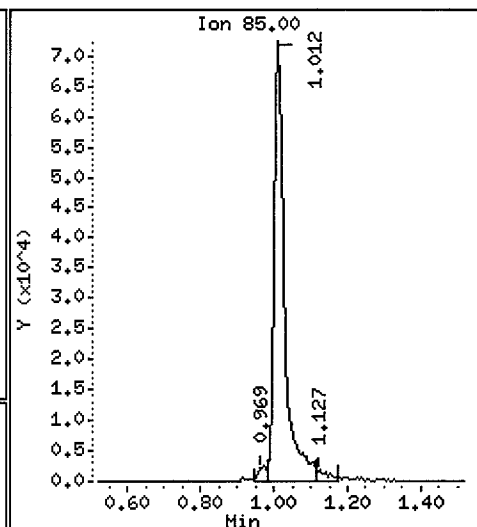
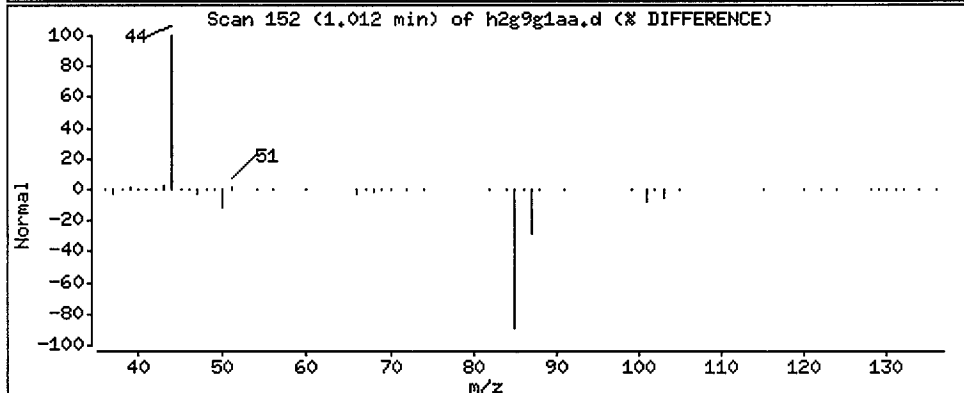
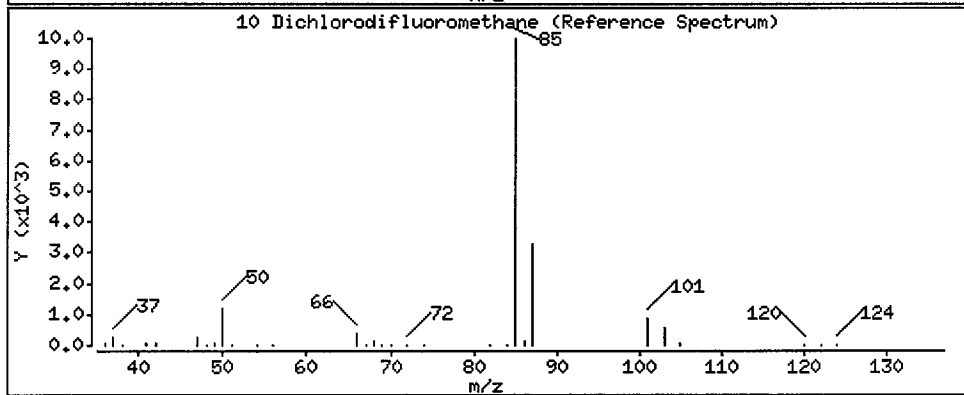
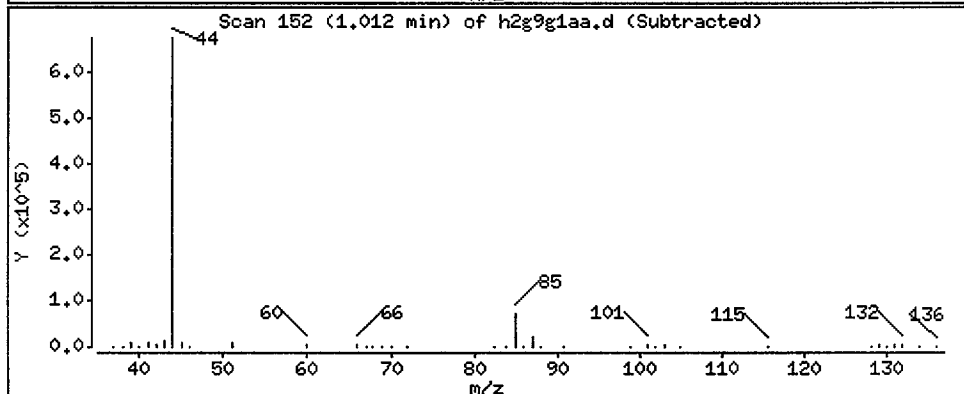
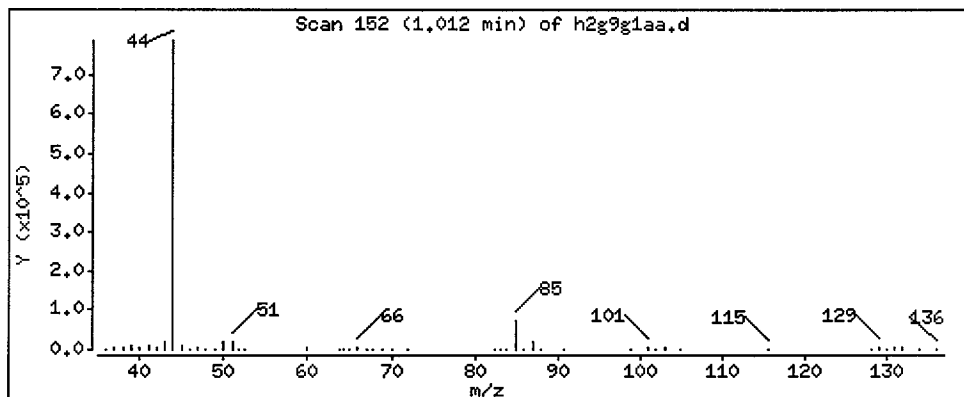
Operator: 22980

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,,

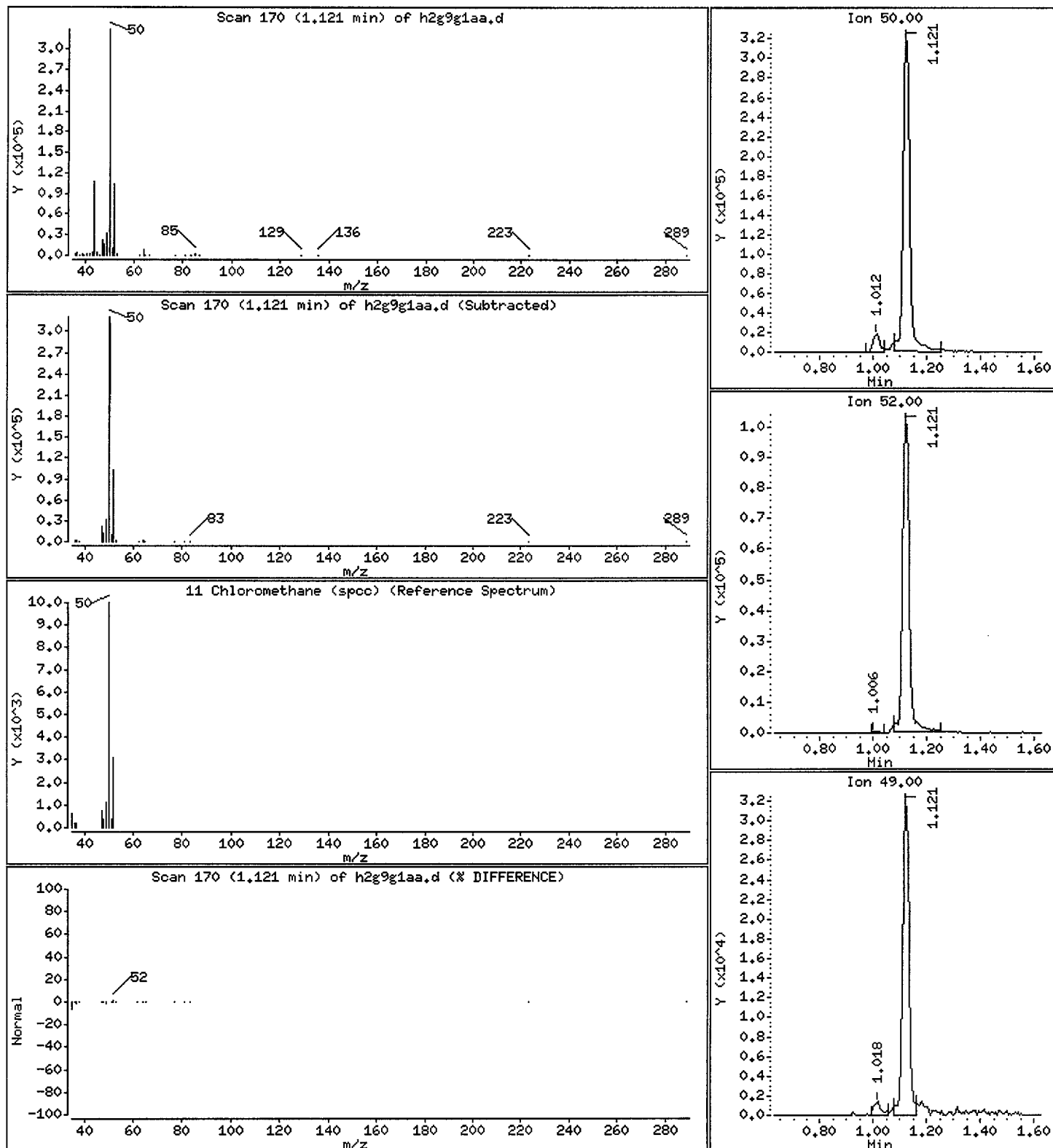
Operator: 22980

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,,

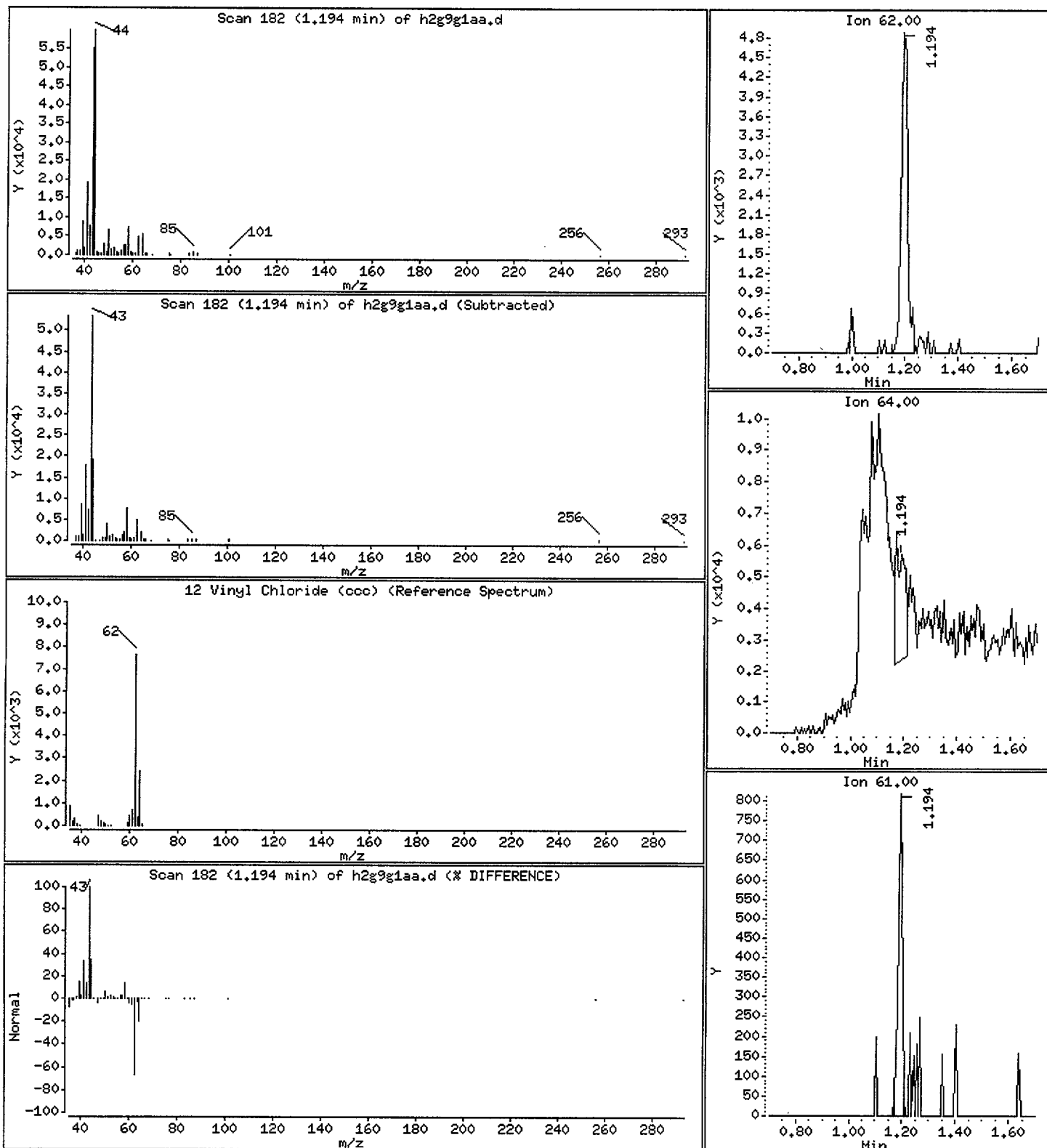
Operator: 22980

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,,

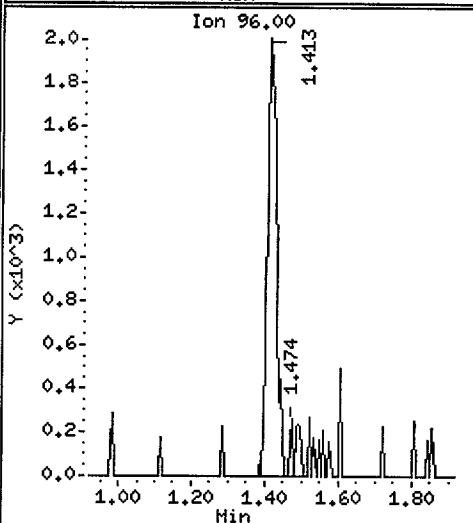
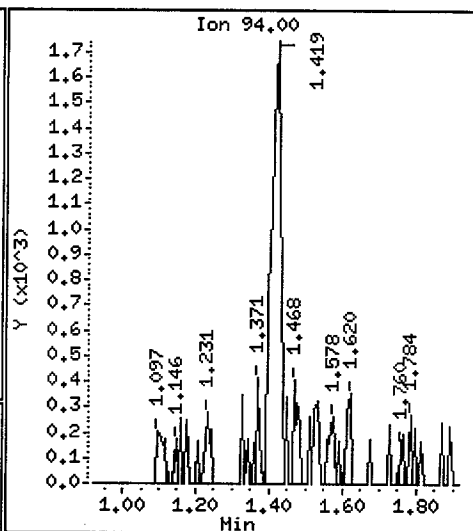
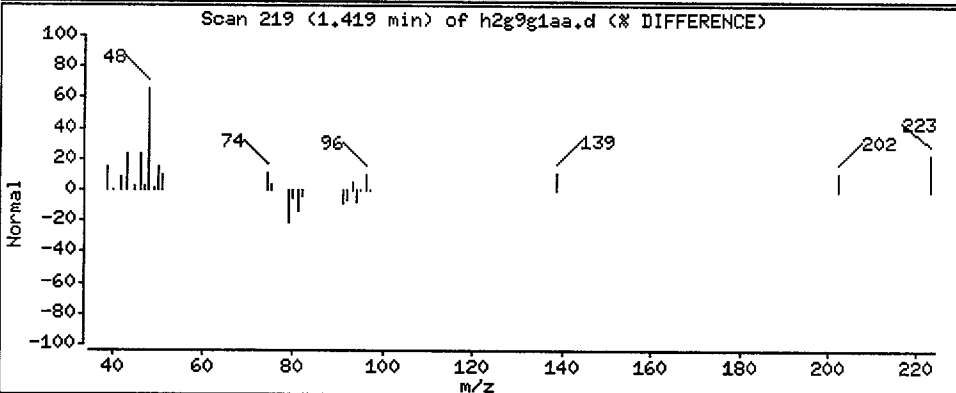
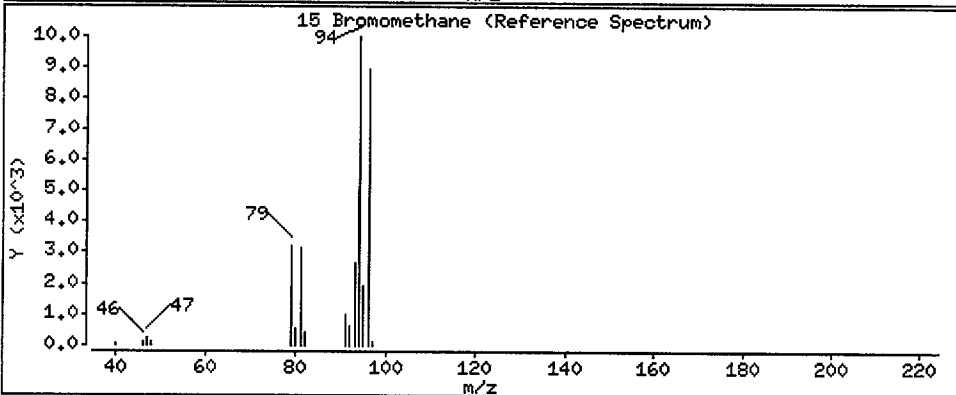
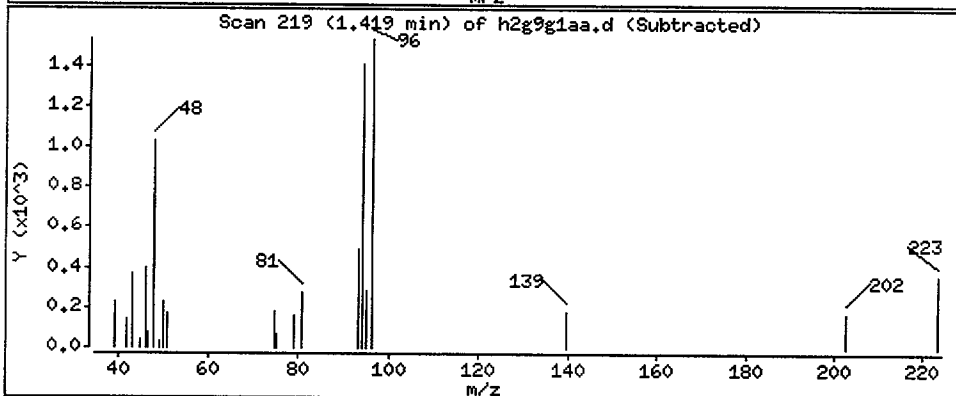
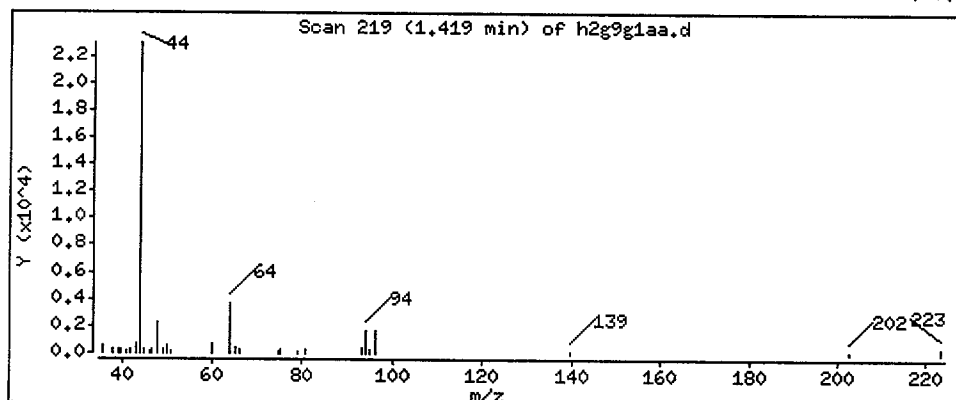
Operator: 22980

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,,

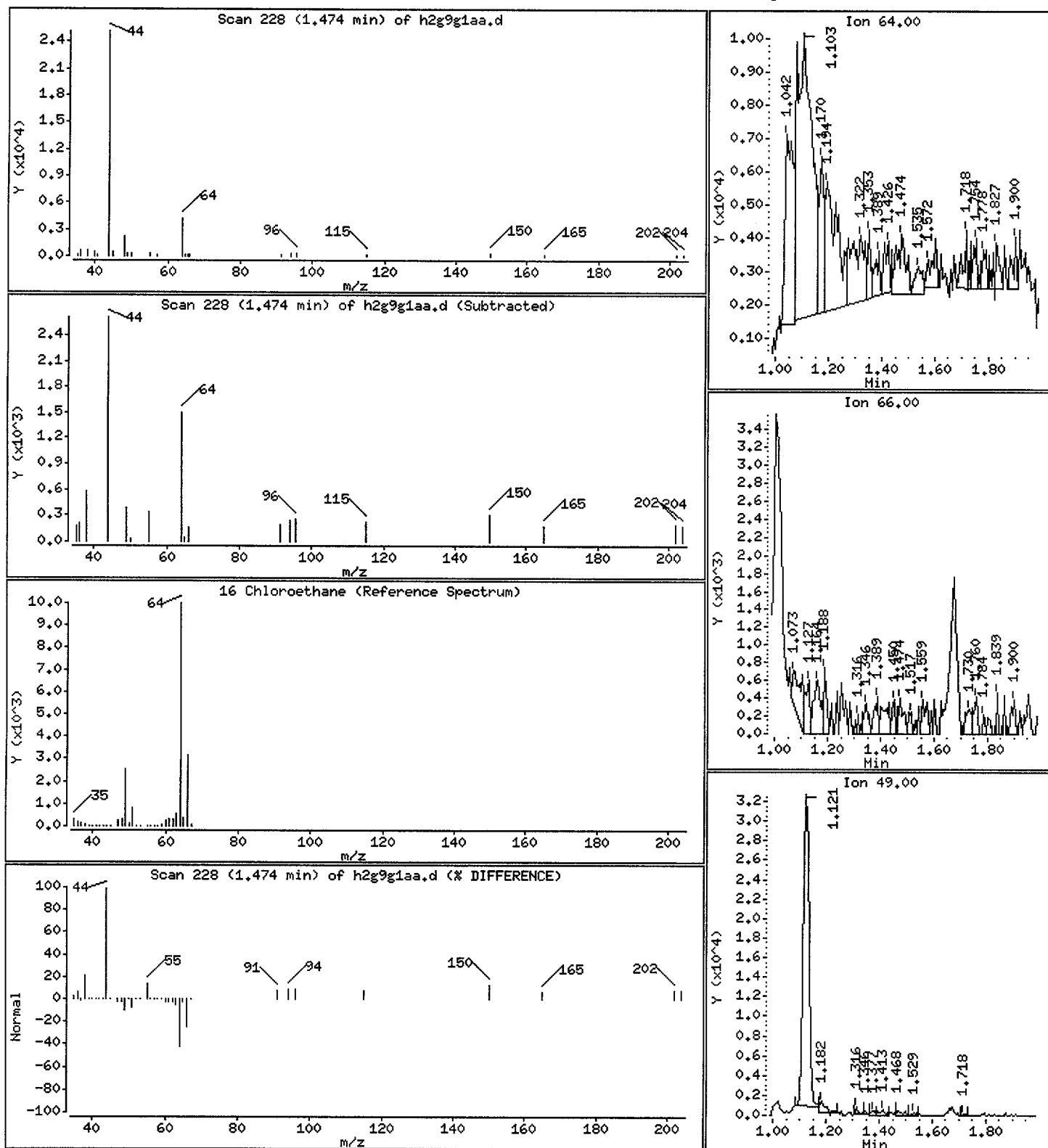
Operator: 22980

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,,

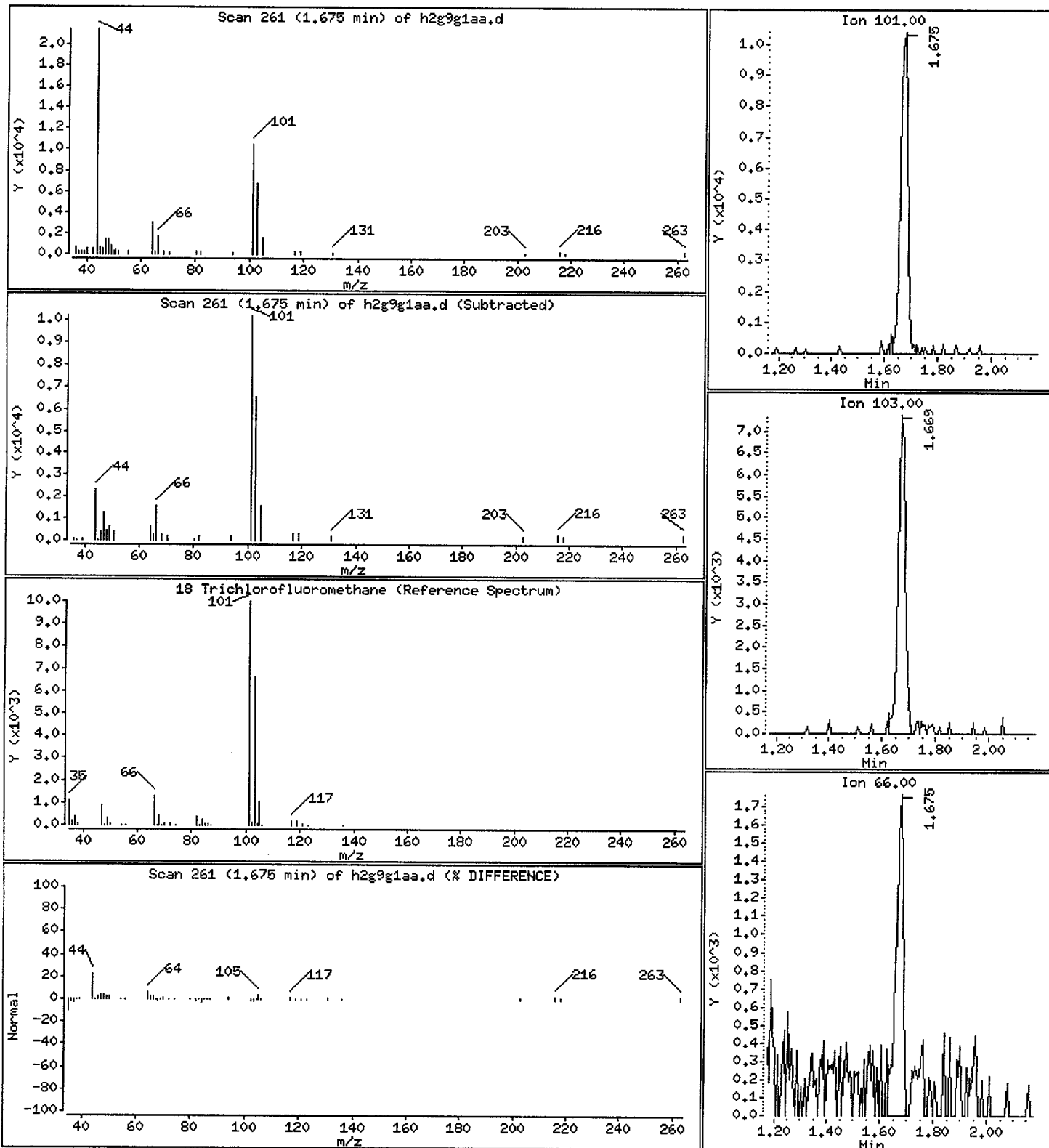
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

18 Trichlorofluoromethane

Concentration: 0.020816 ug



Data File: /chem/gcms/mz.i/2040706.b/h2g9g1aa.d

Date : 07-APR-2006 17:08

Client ID: G-2915-R1-VOST PAIR

Instrument: mz.i

Sample Info: H2G9G1AA,1,0,,

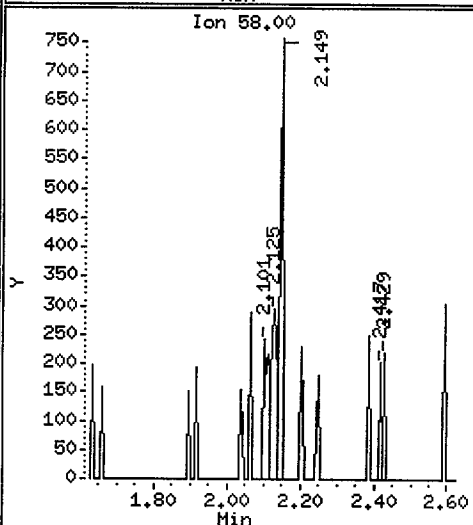
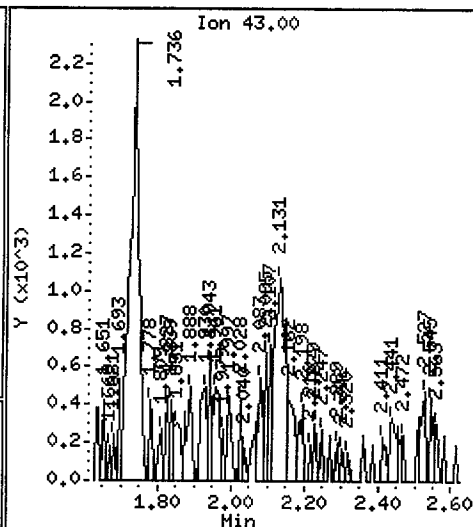
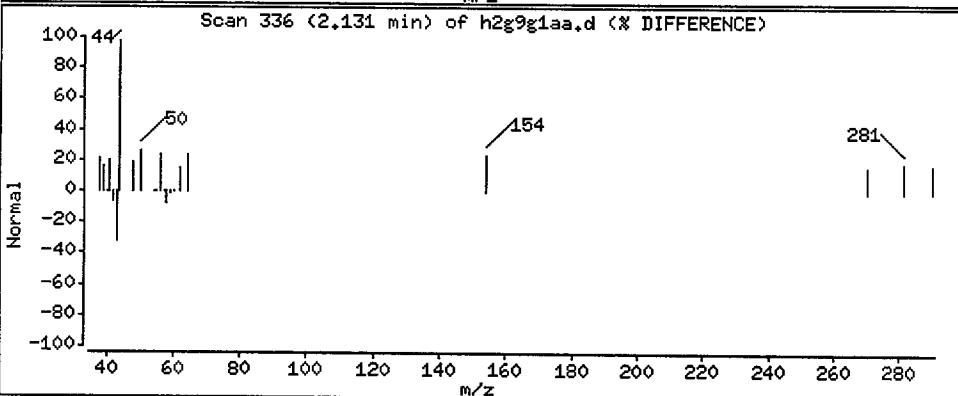
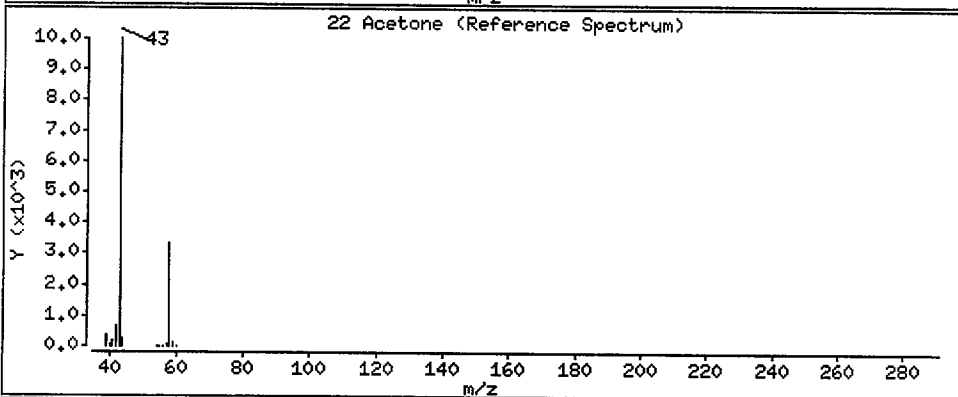
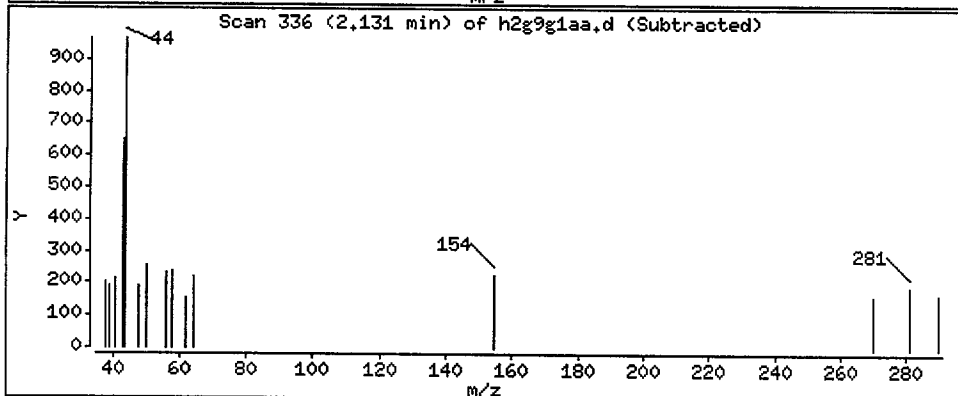
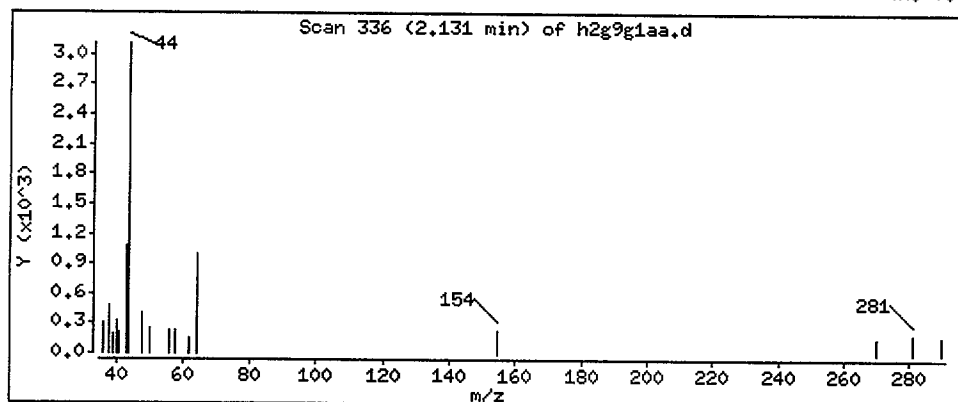
Operator: 22980

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,,

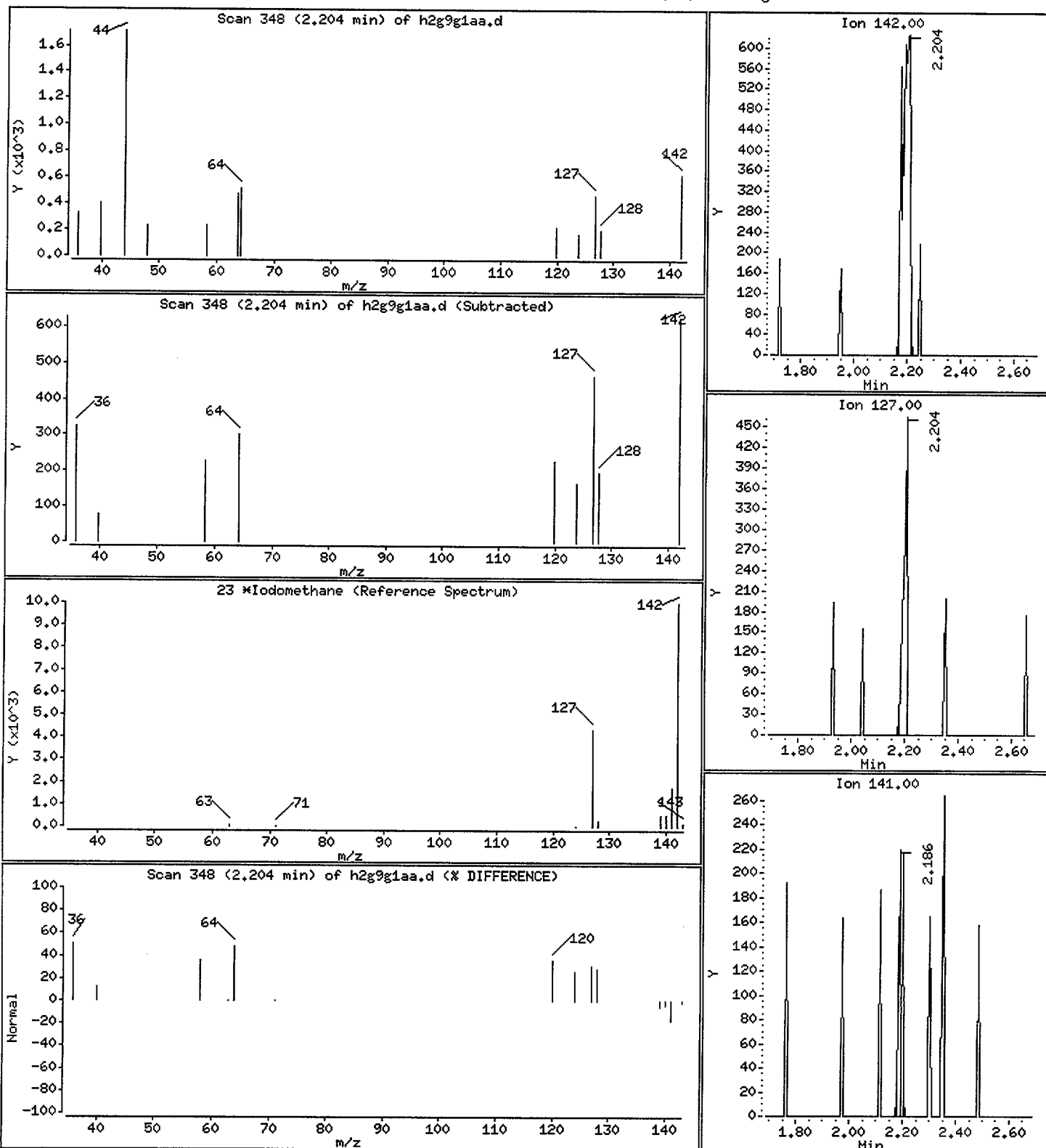
Operator: 22980

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,,

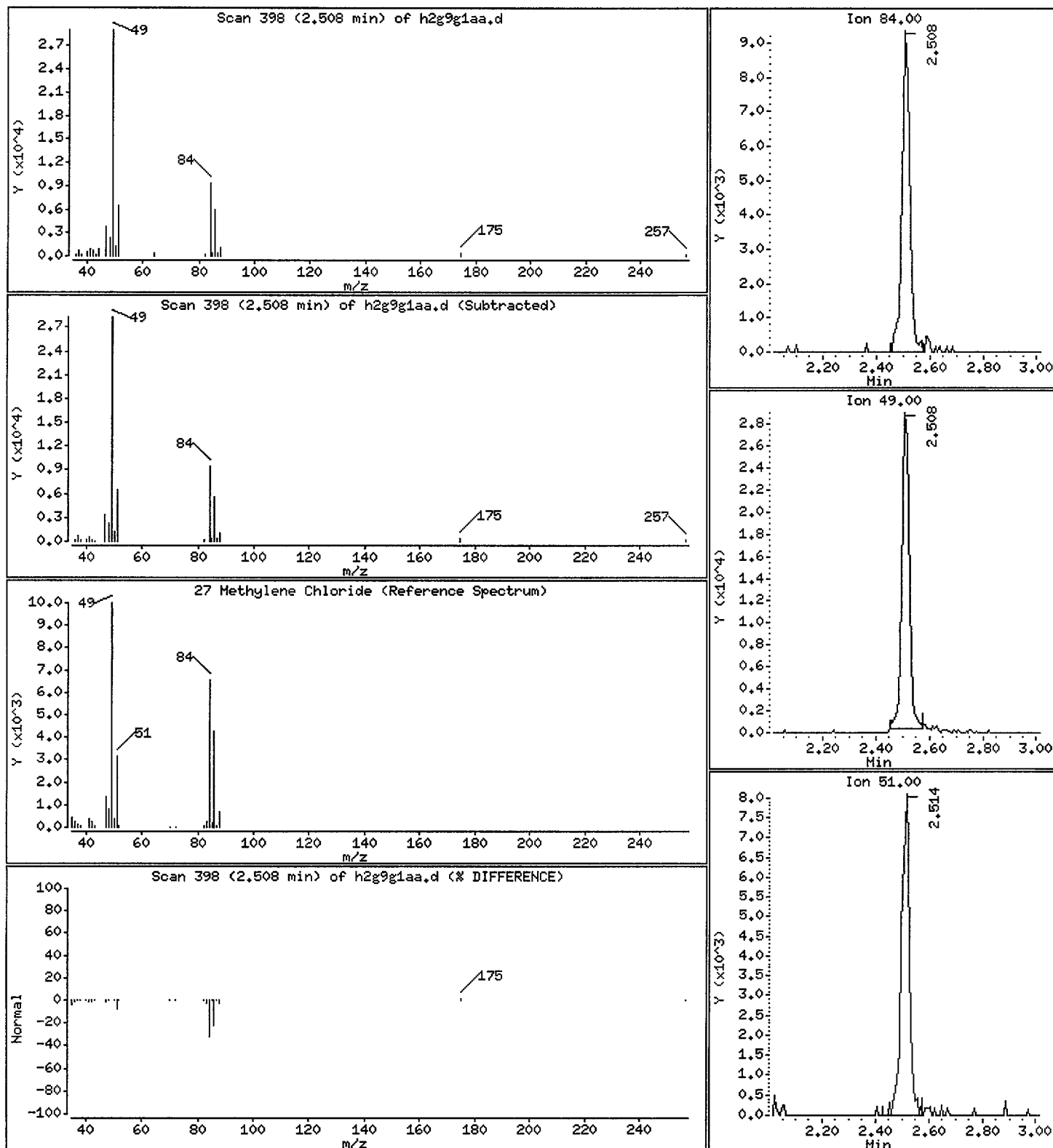
Operator: 22980

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,,

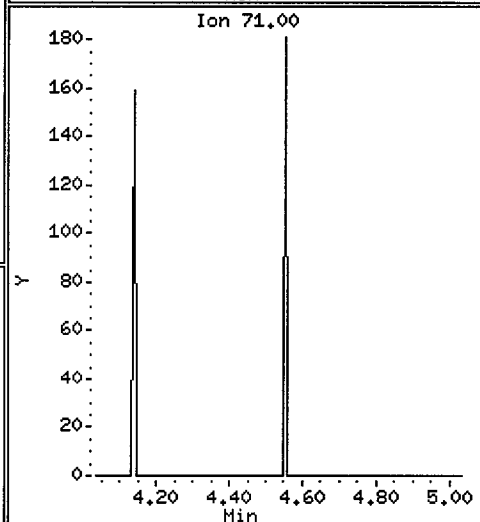
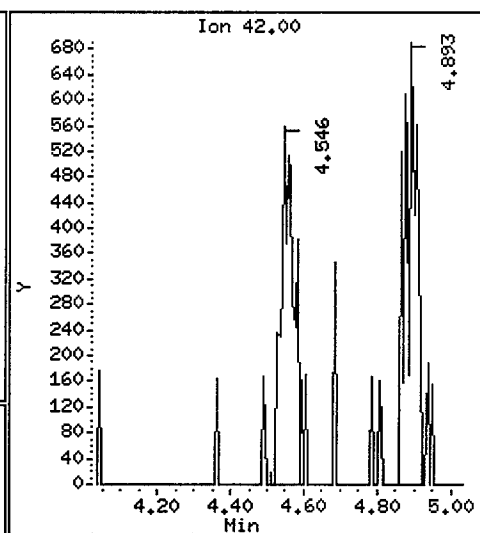
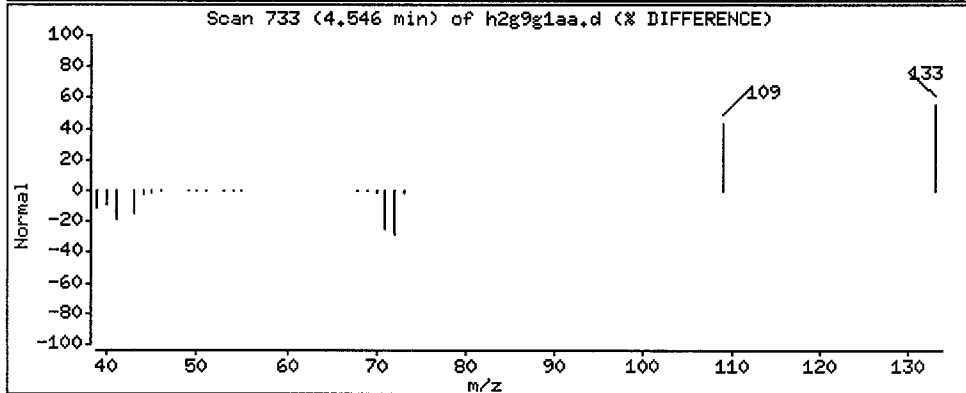
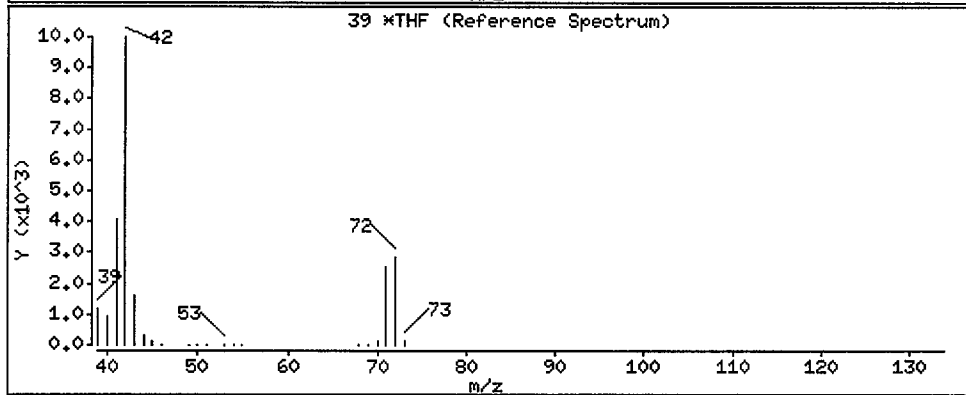
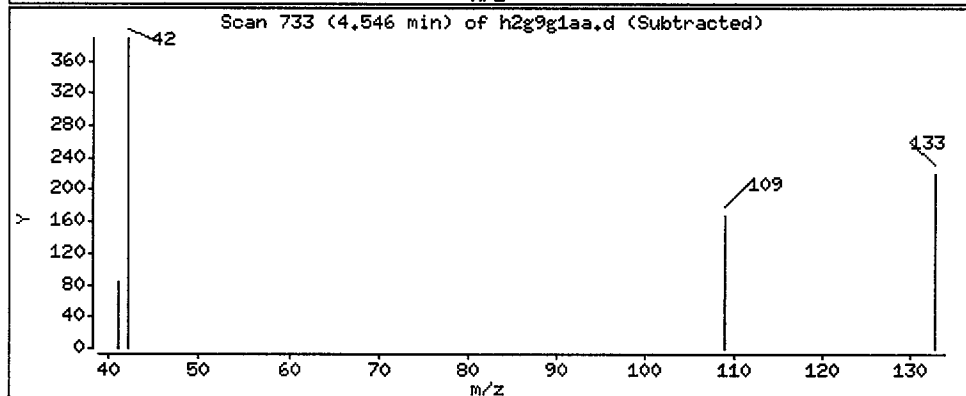
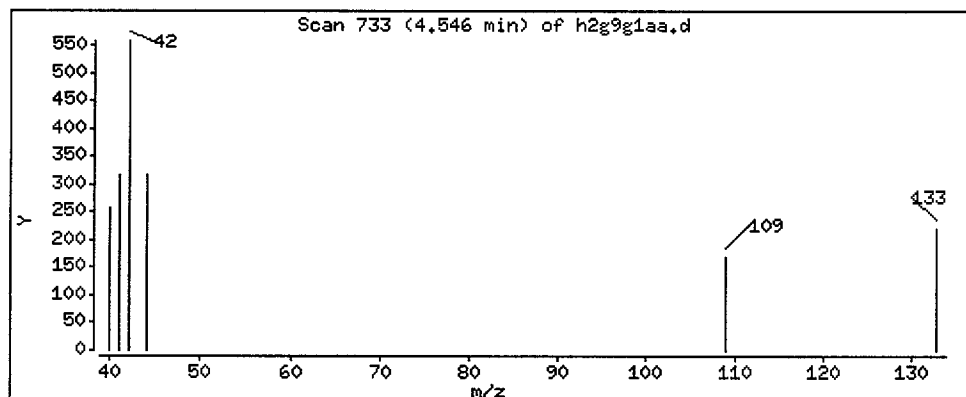
Operator: 22980

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,,

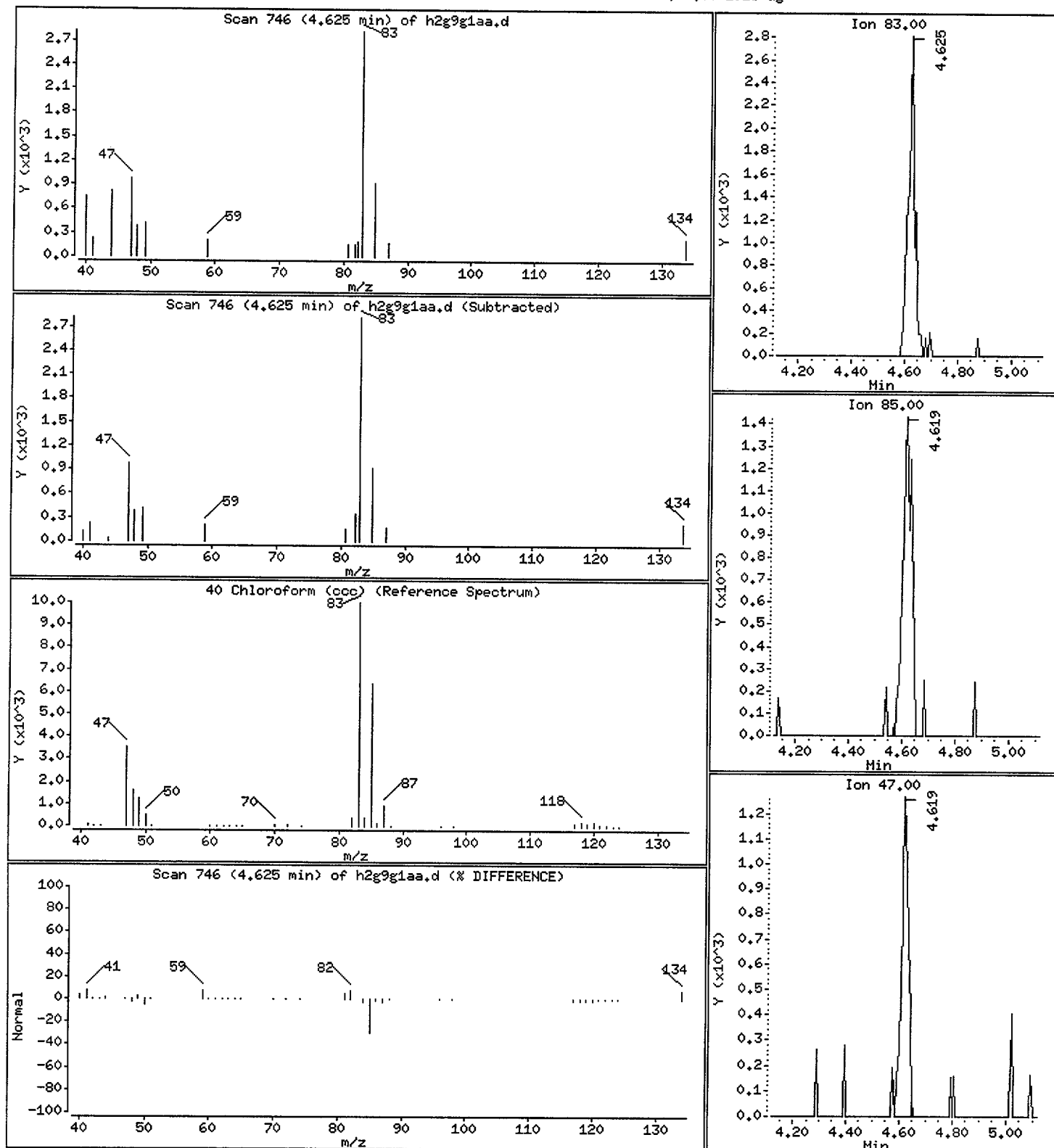
Operator: 22980

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,,

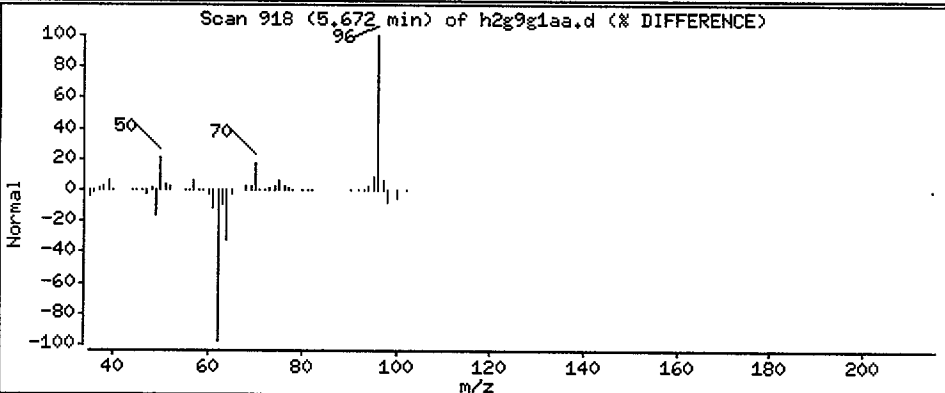
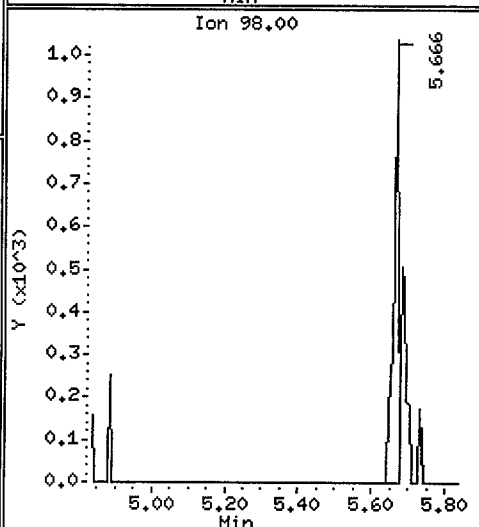
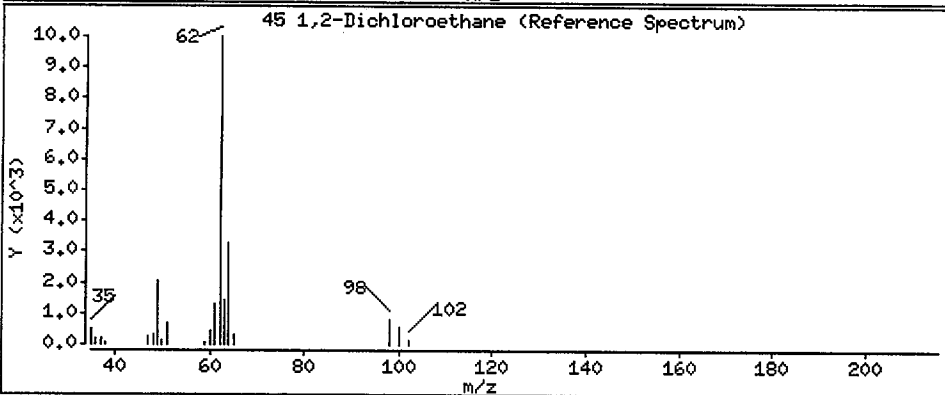
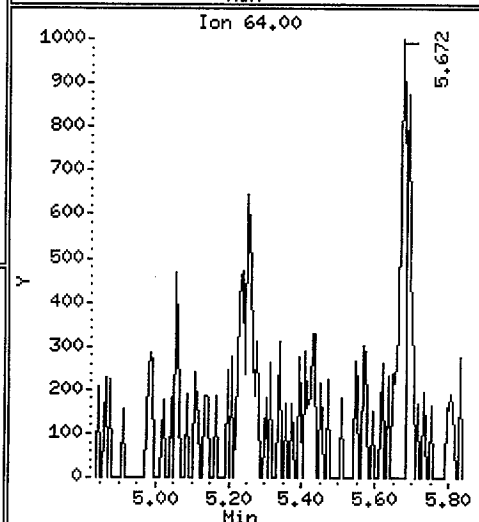
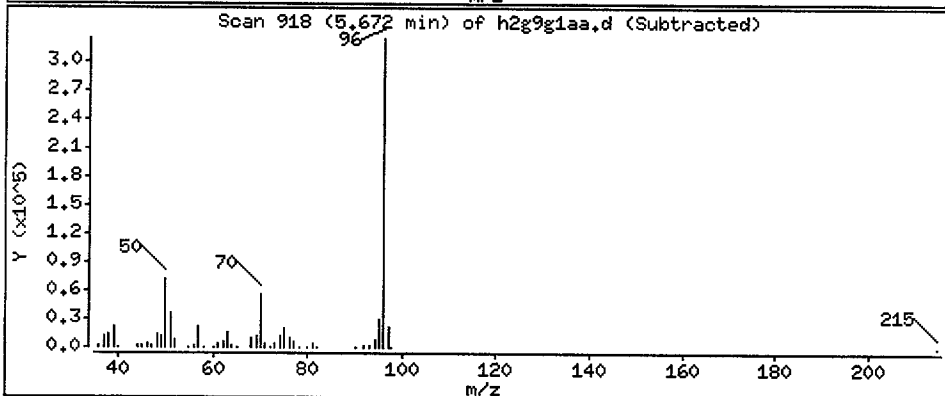
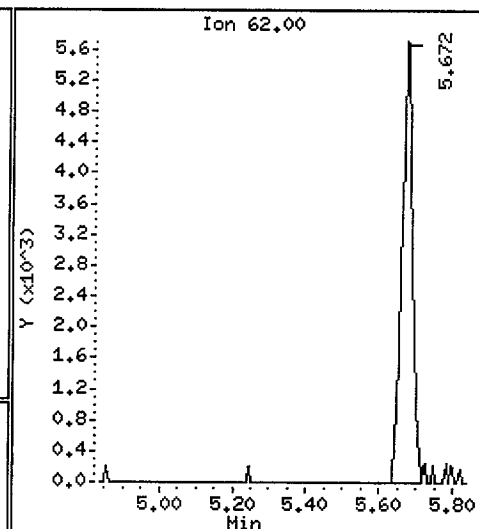
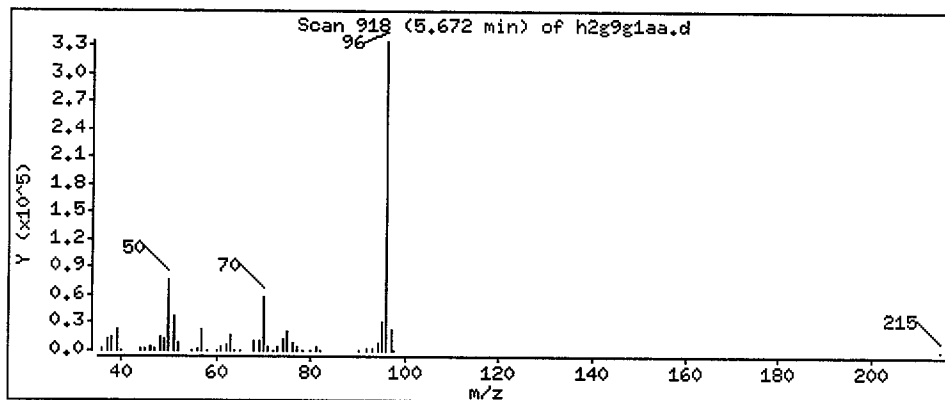
Operator: 22980

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,,

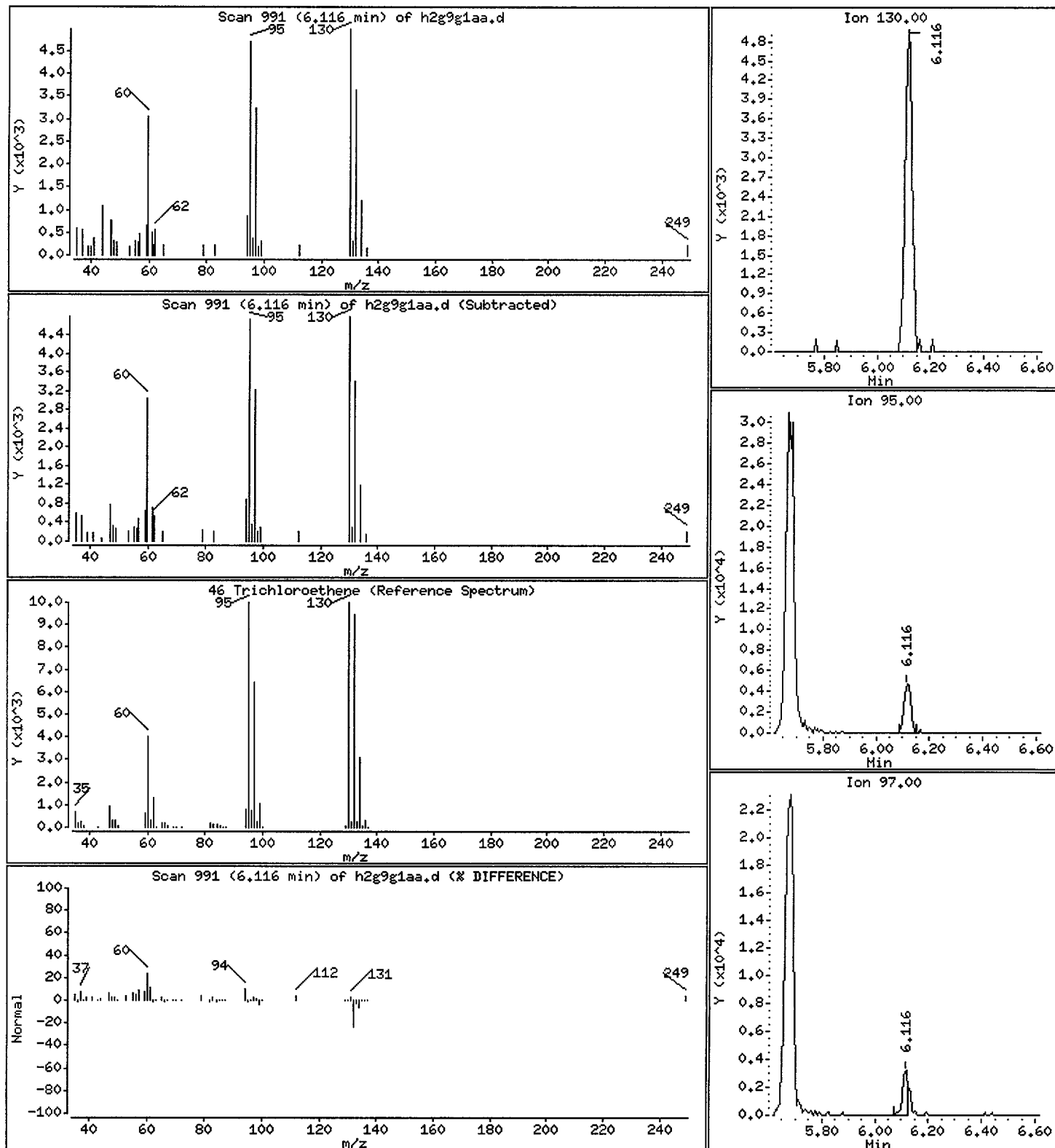
Operator: 22980

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,,

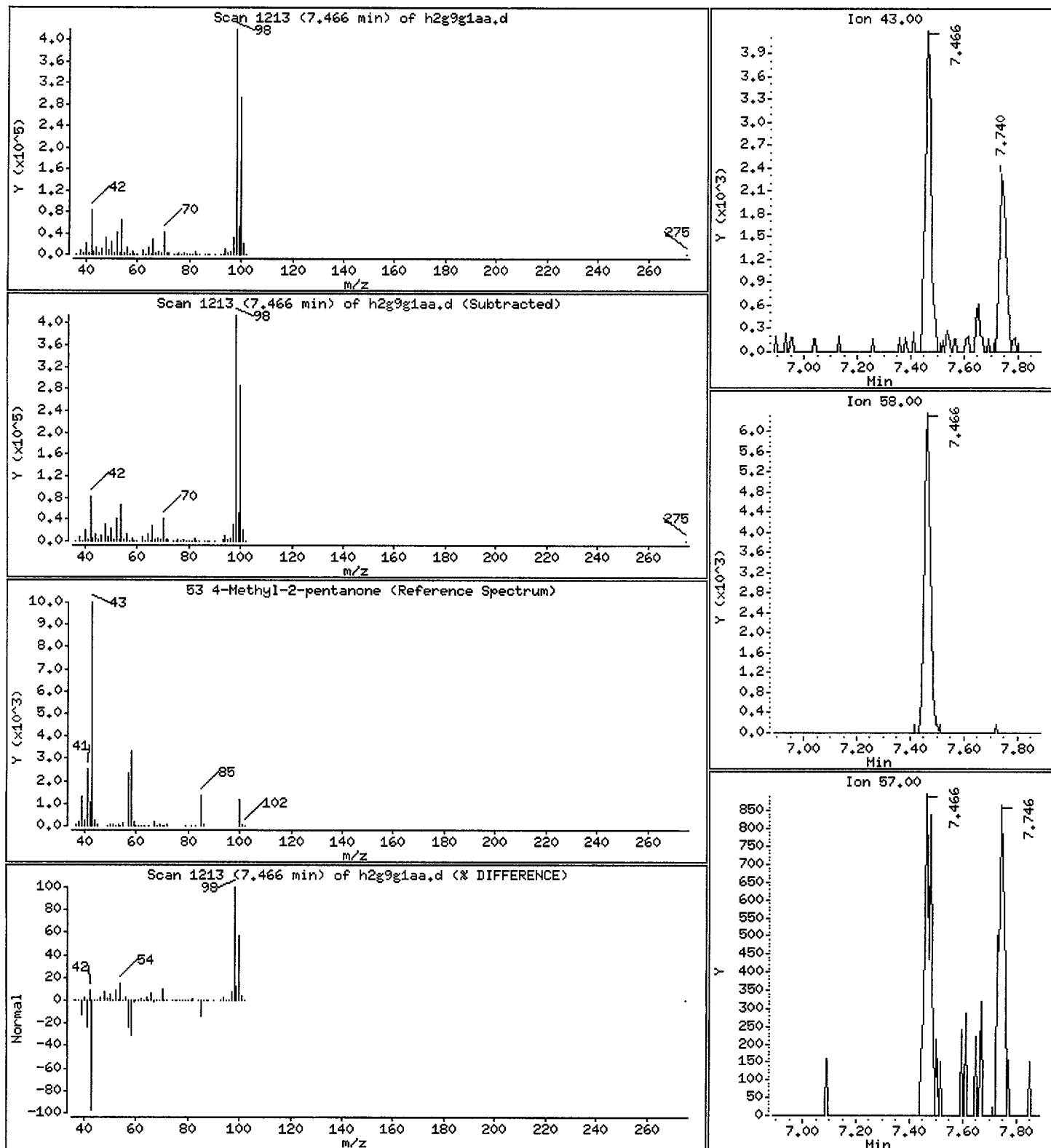
Operator: 22980

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,,

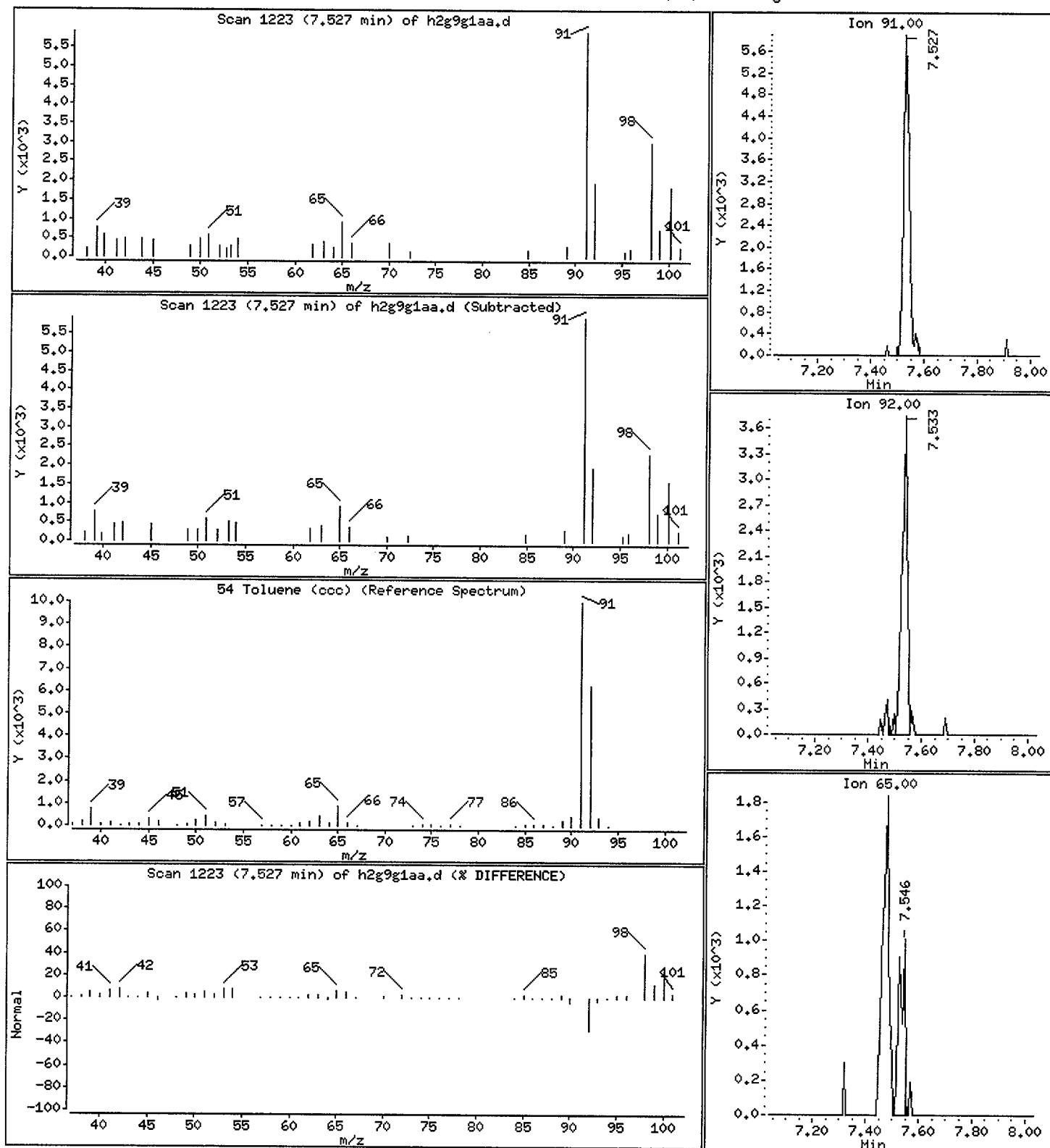
Operator: 22980

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,,

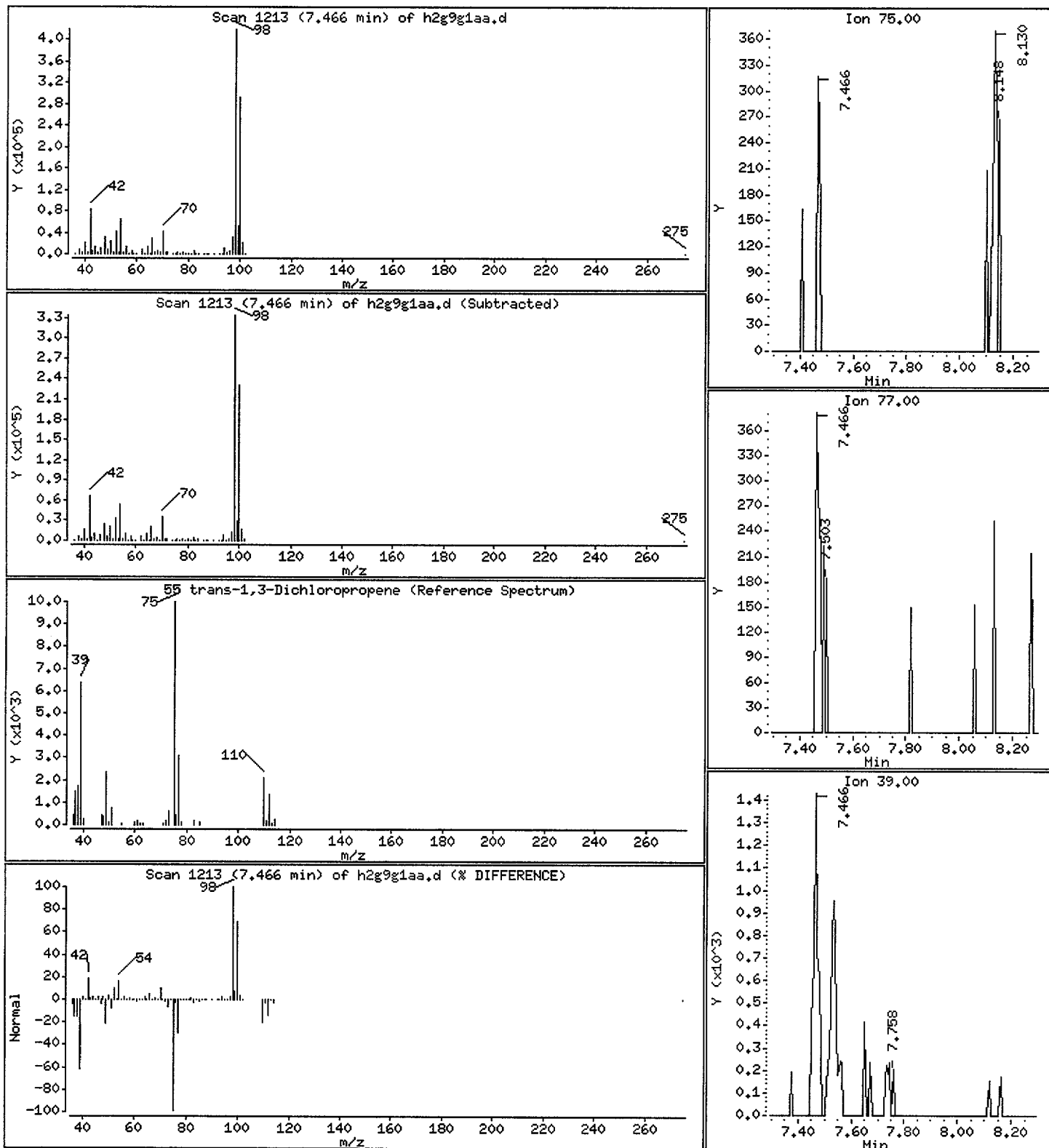
Operator: 22980

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,,

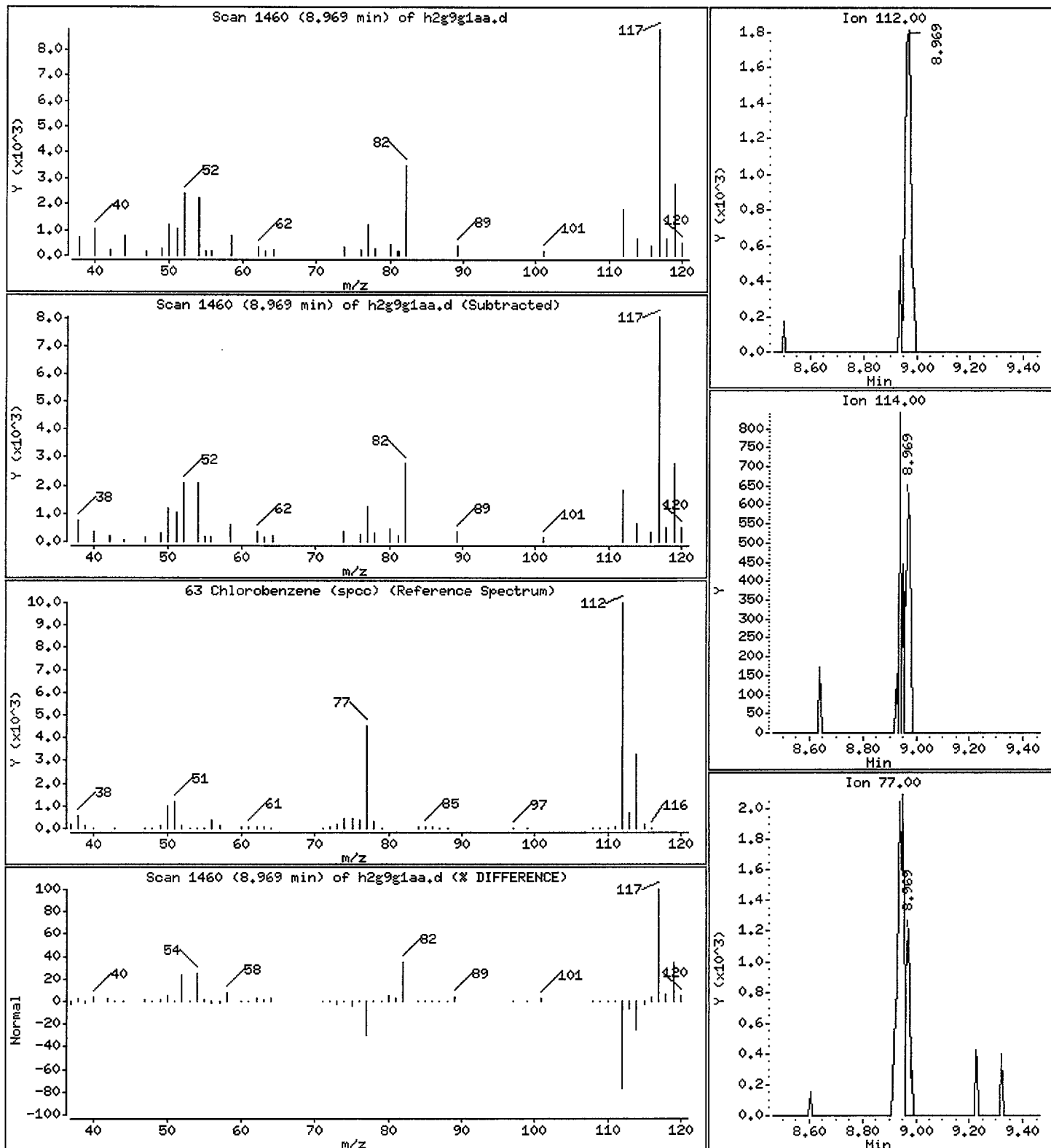
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

63 Chlorobenzene (spoc)

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,,

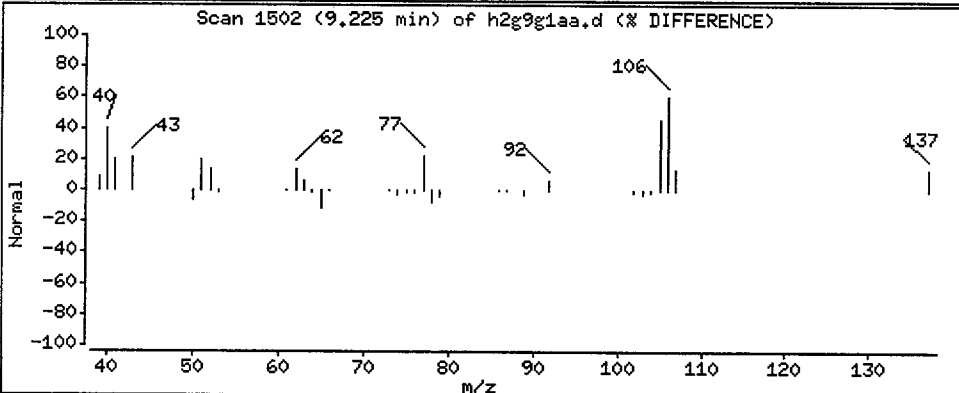
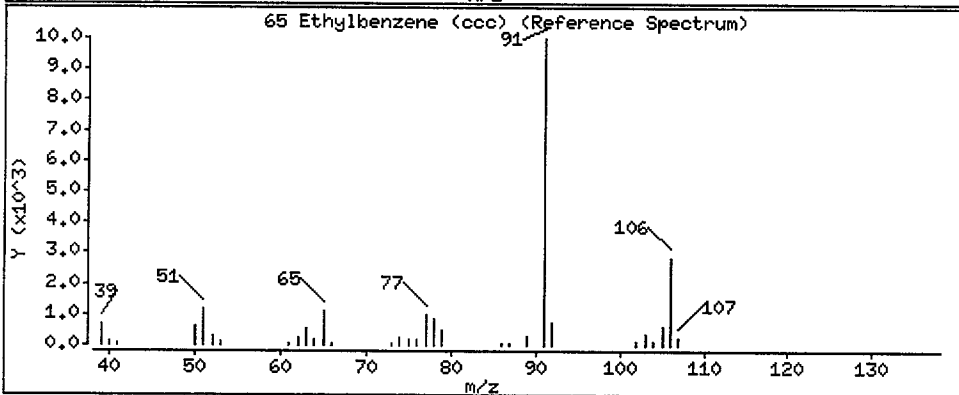
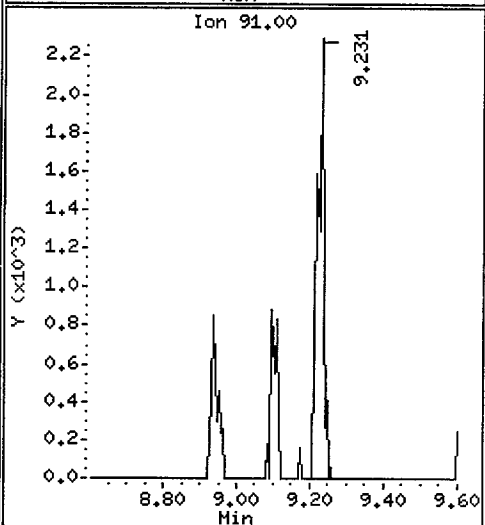
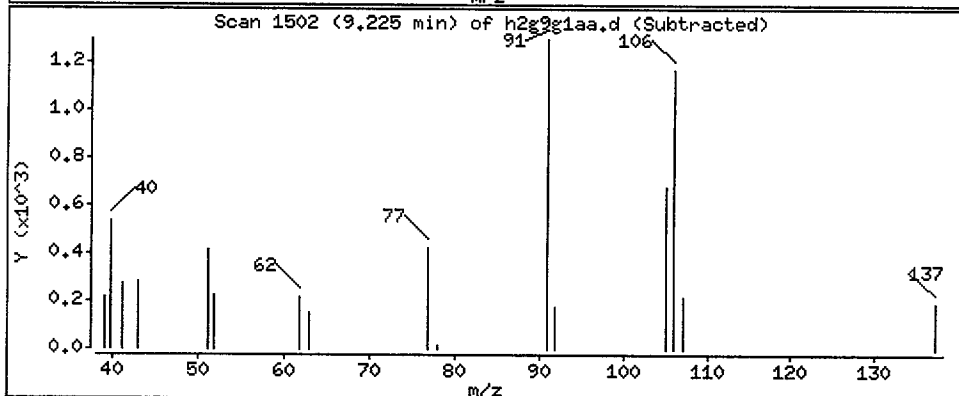
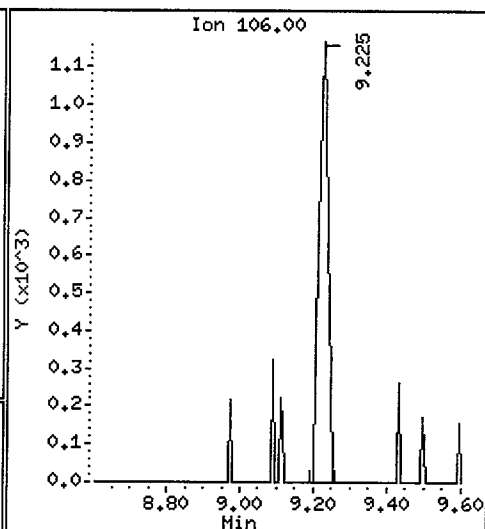
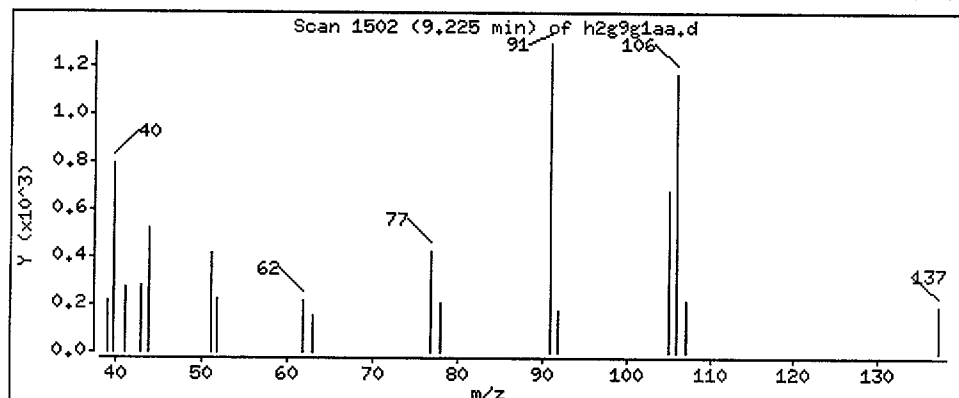
Operator: 22980

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,,

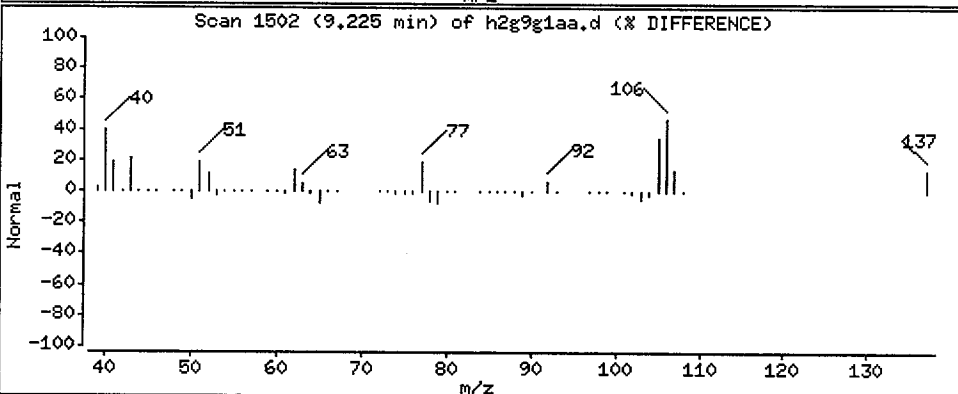
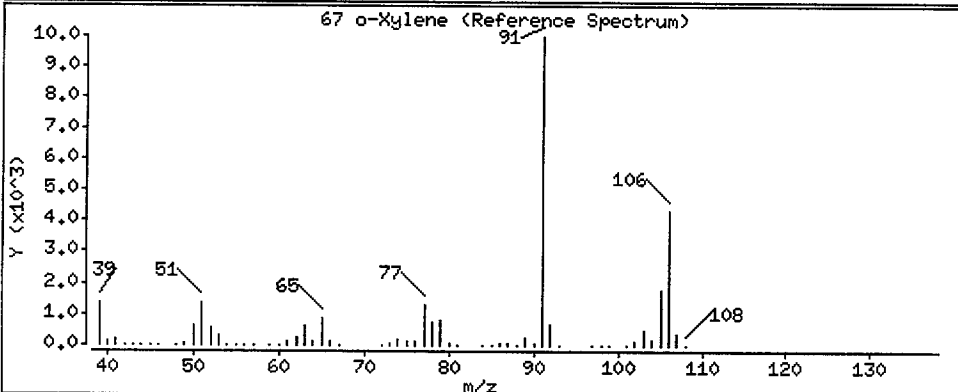
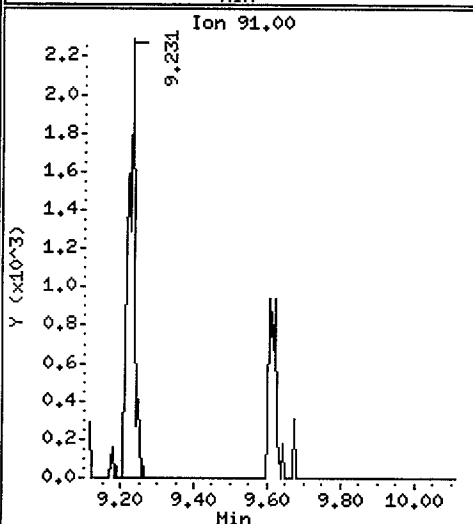
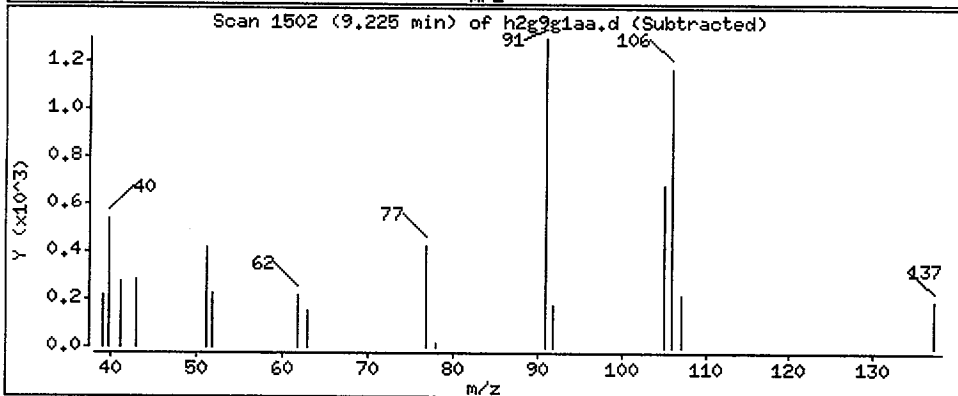
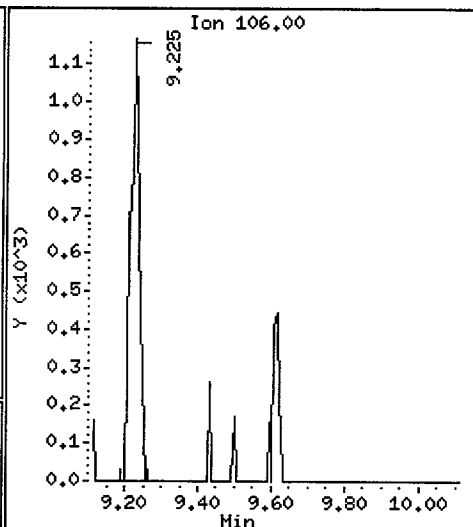
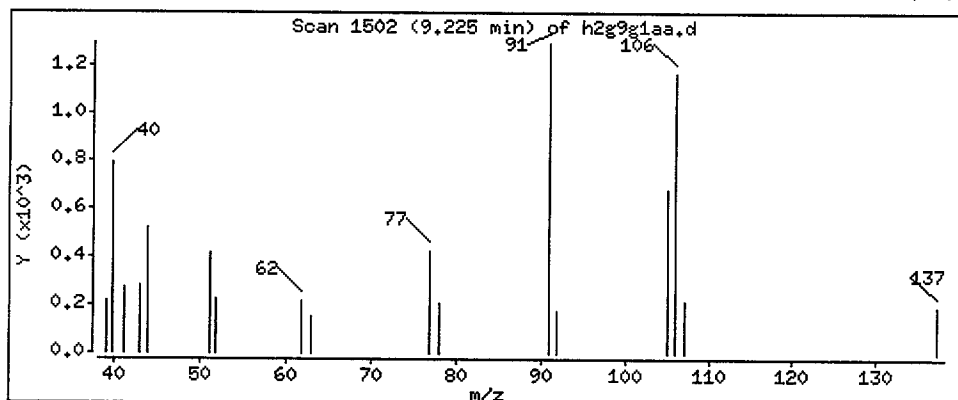
Operator: 22980

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,,

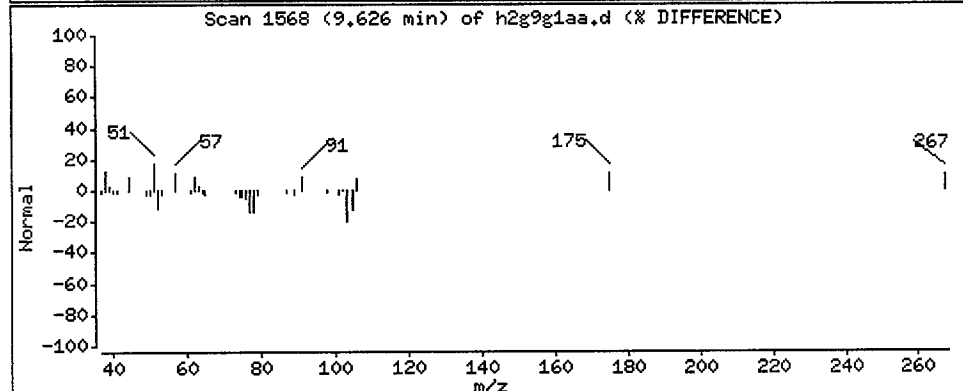
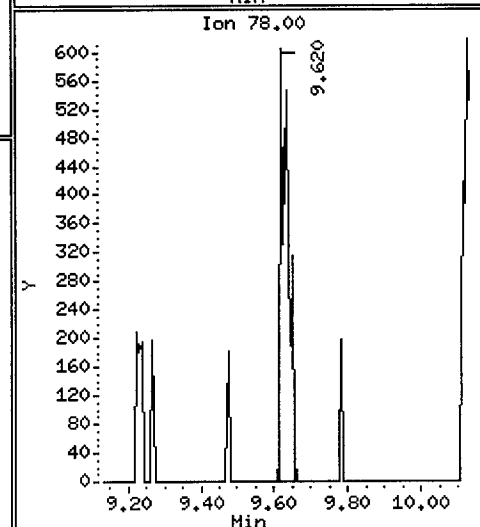
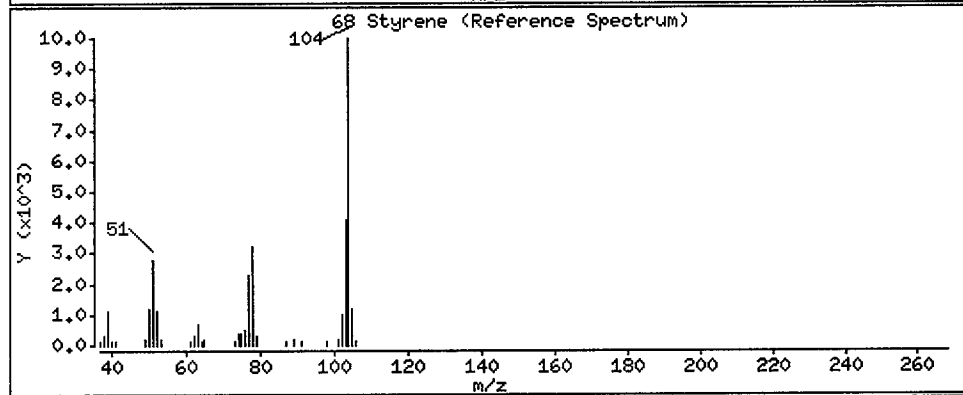
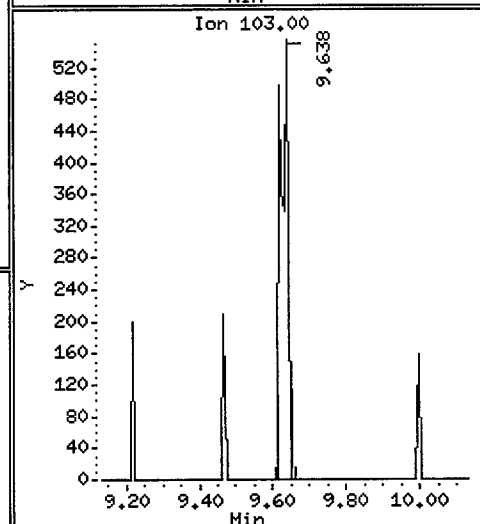
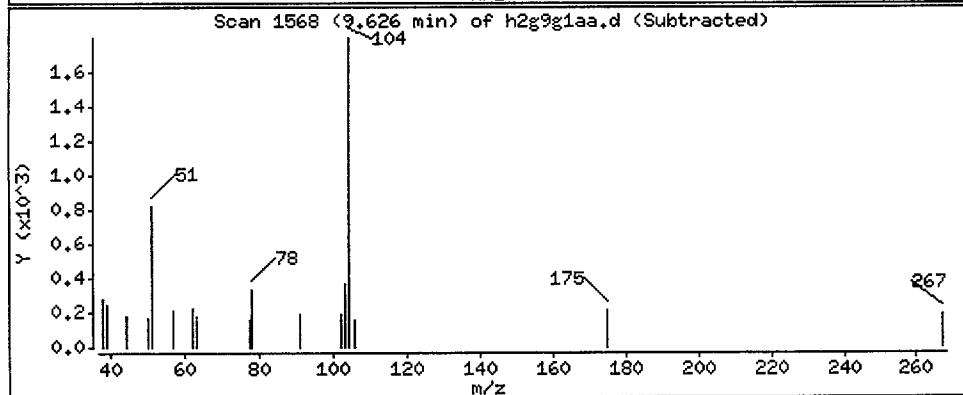
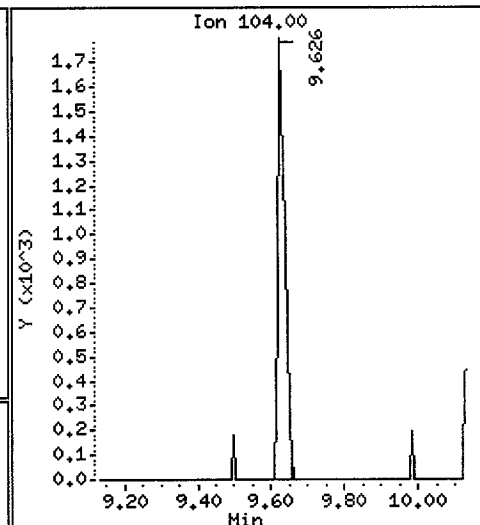
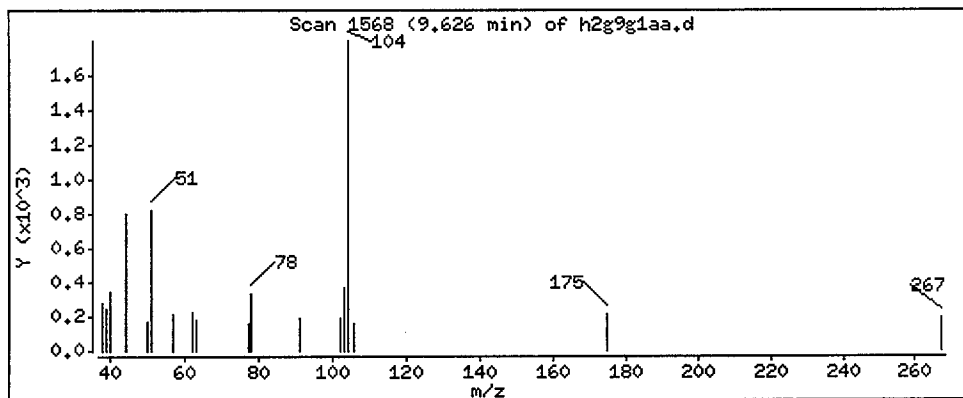
Operator: 22980

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,,

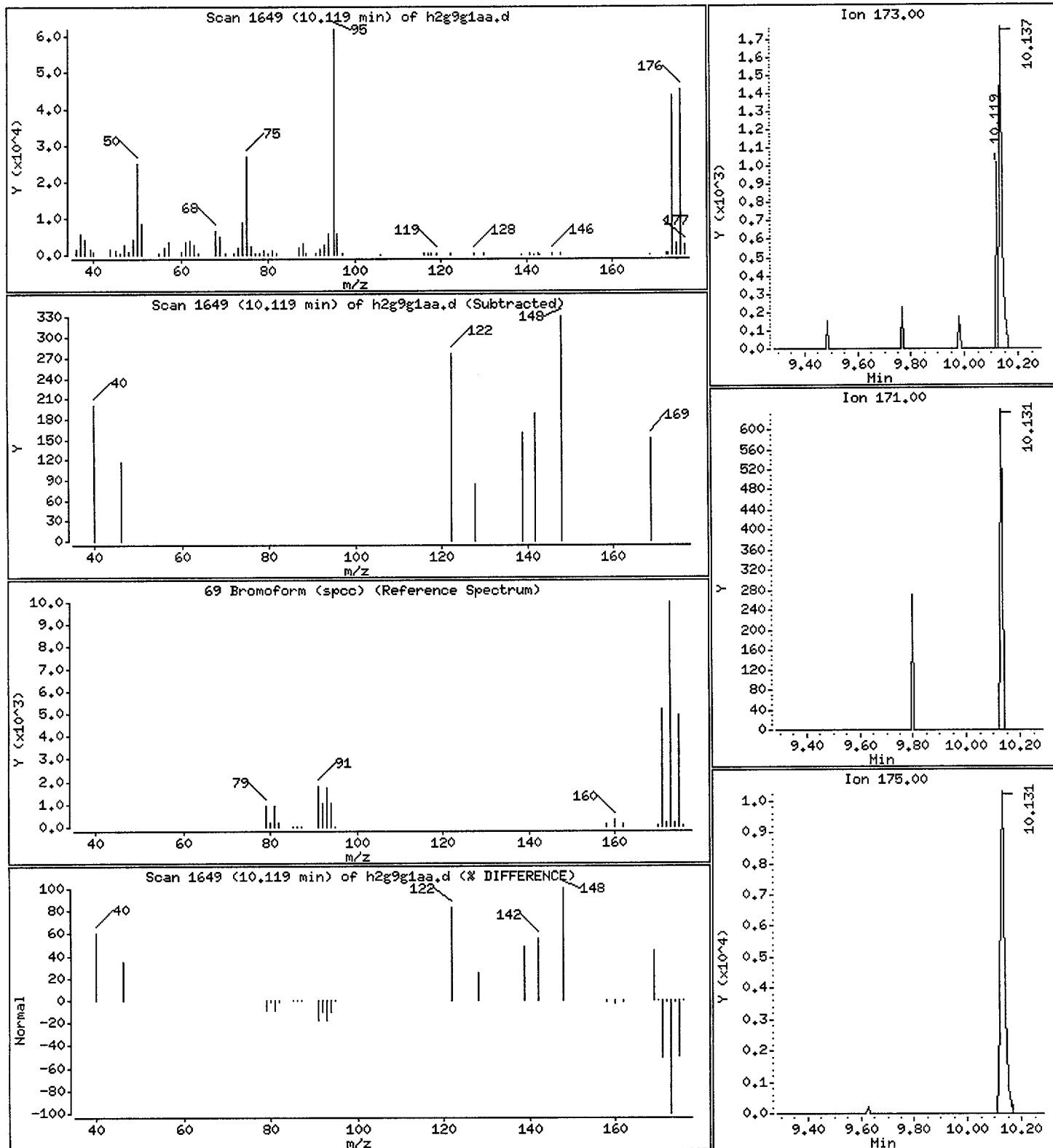
Operator: 22980

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,,

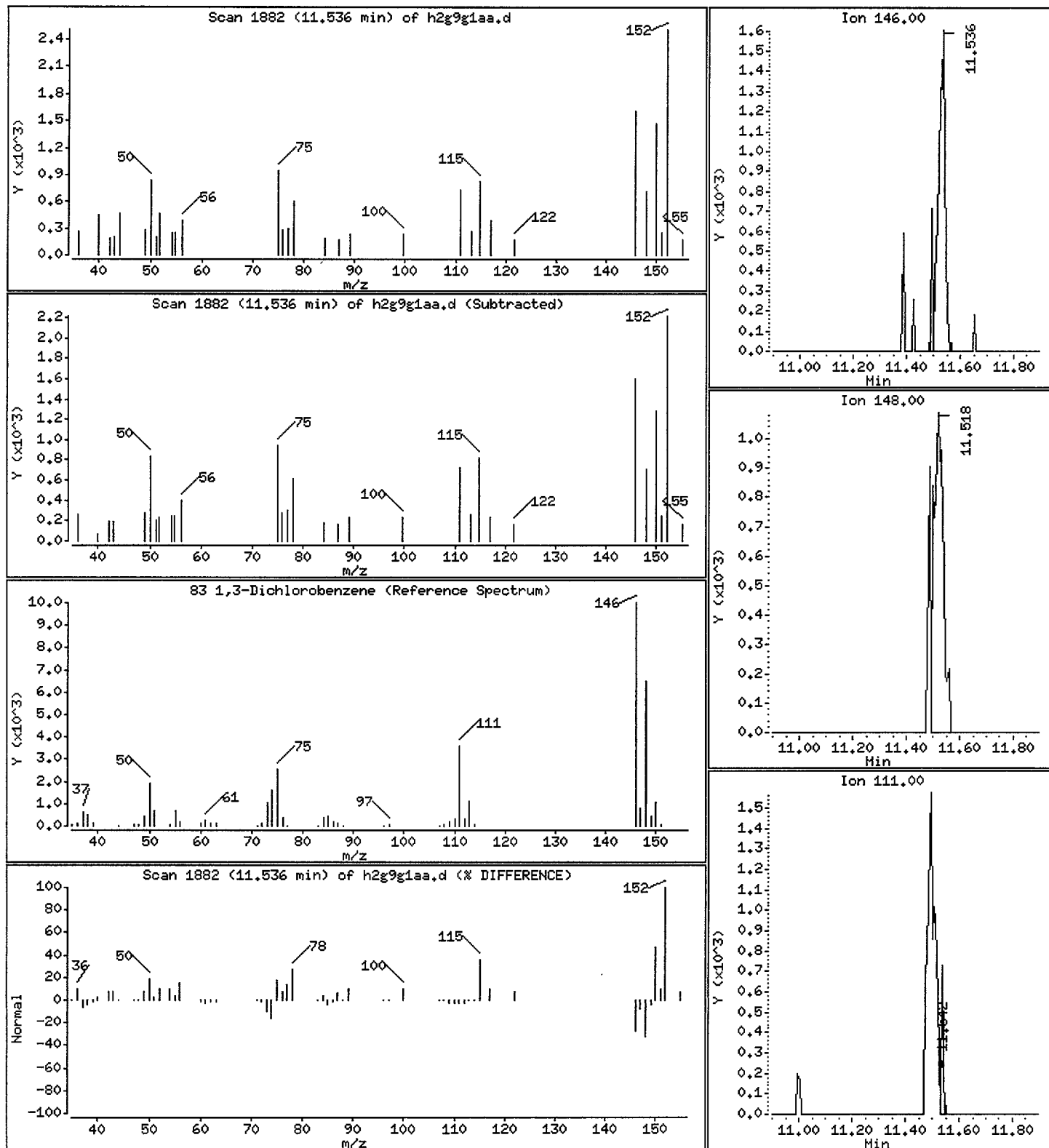
Operator: 22980

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,,

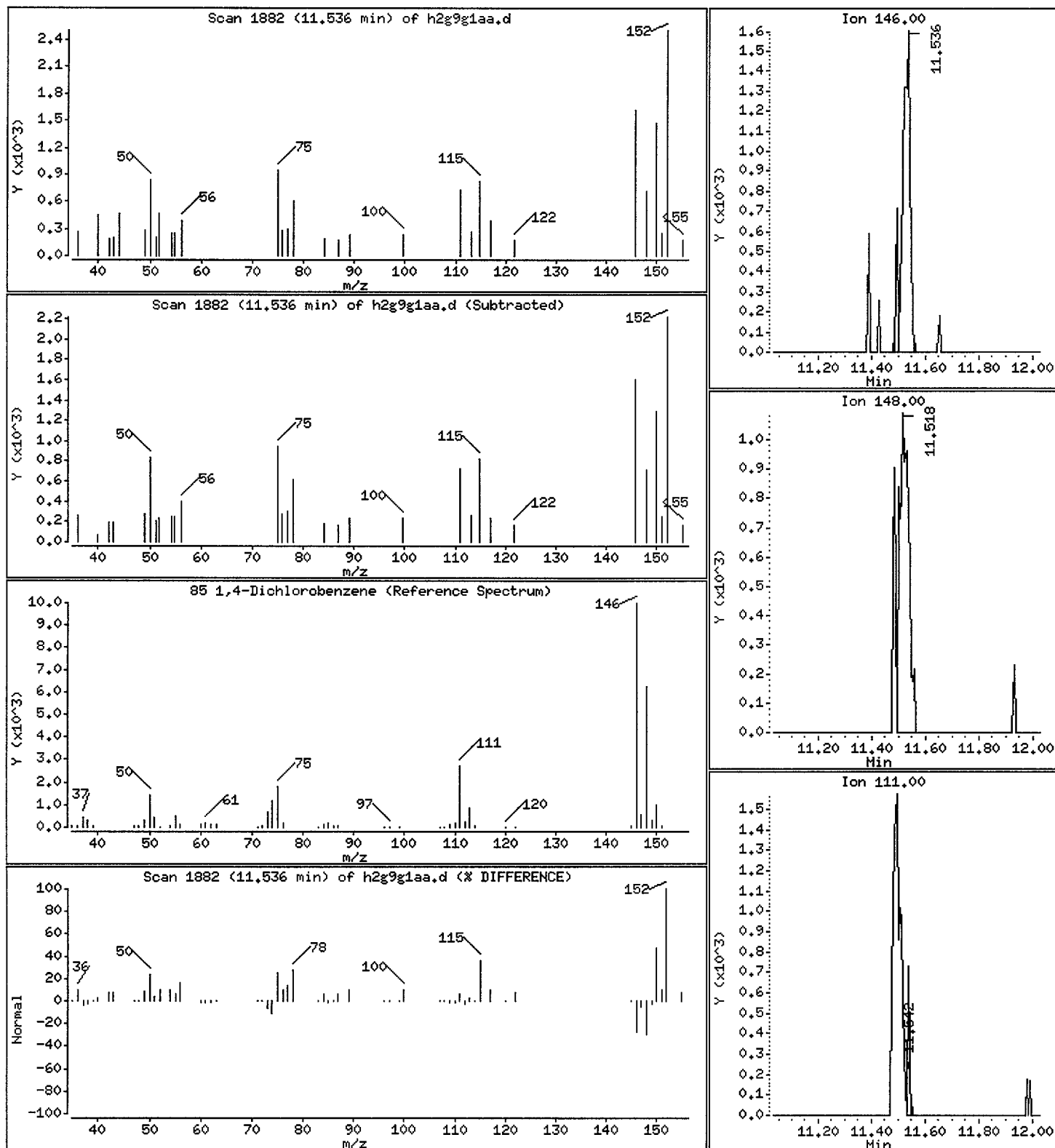
Operator: 22980

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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * 1000) * \text{CpndVariable}$

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

✓
0.42106

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(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

W
4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2g9h1aa.d

Report Date: 05-Apr-2006 18:53

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ug/L)	(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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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

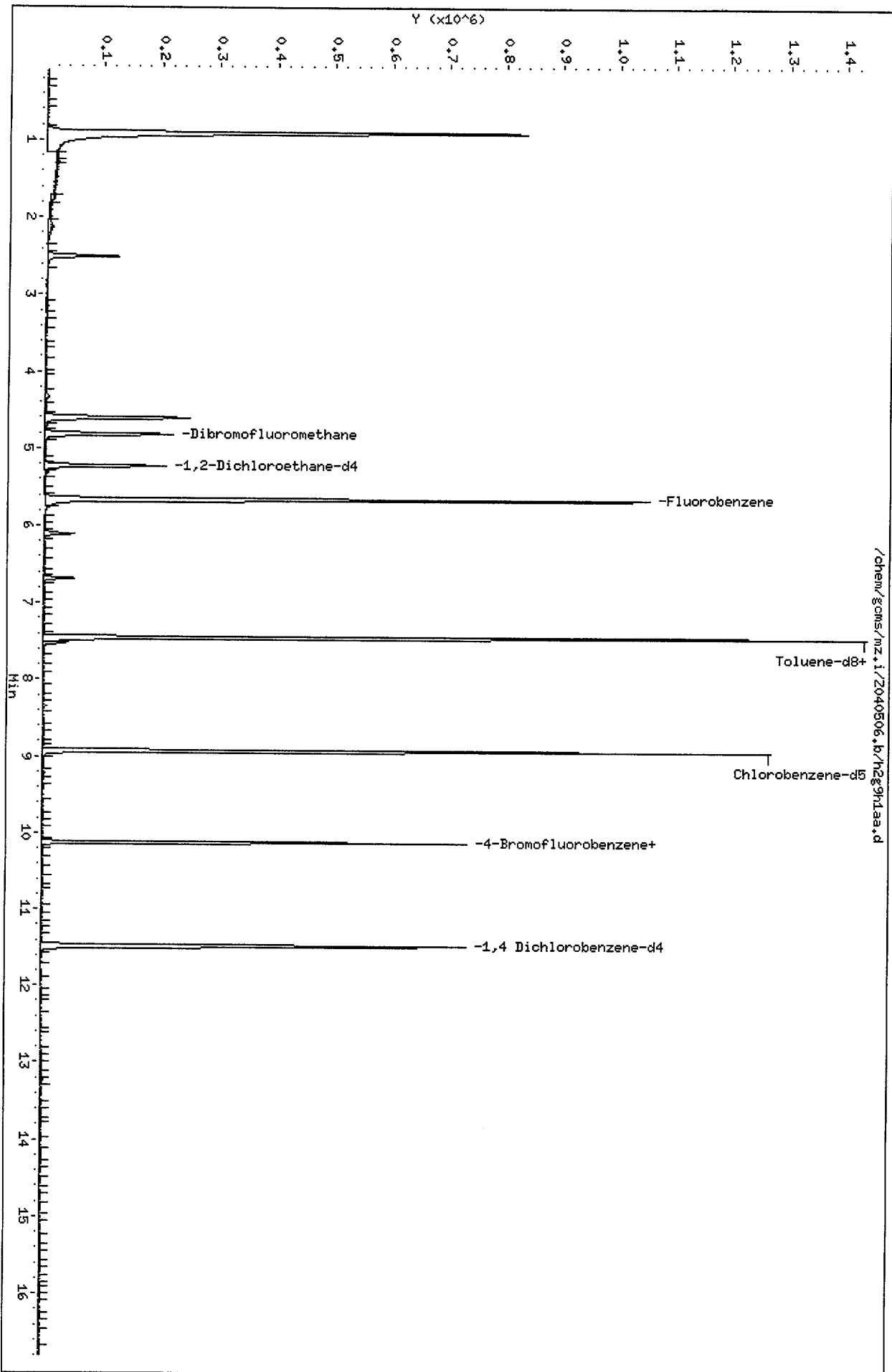
SampleType: SAMPLE

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/2040506.b/h2g9h1aa.d
Date: 05-APR-2006 18:36
Client ID: G-2916-R1-WOST COND
Sample Info: H2G9H1AA,1,0,,
Purge Volume: 25.0
Column phase: J+H 624

Instrument: mz.i
Operator: 063605
Column diameter: 0.18



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

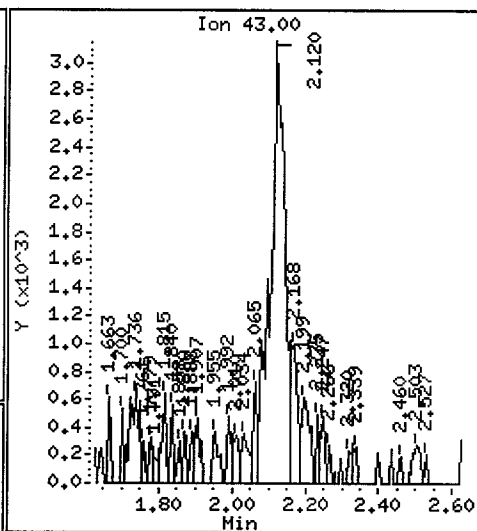
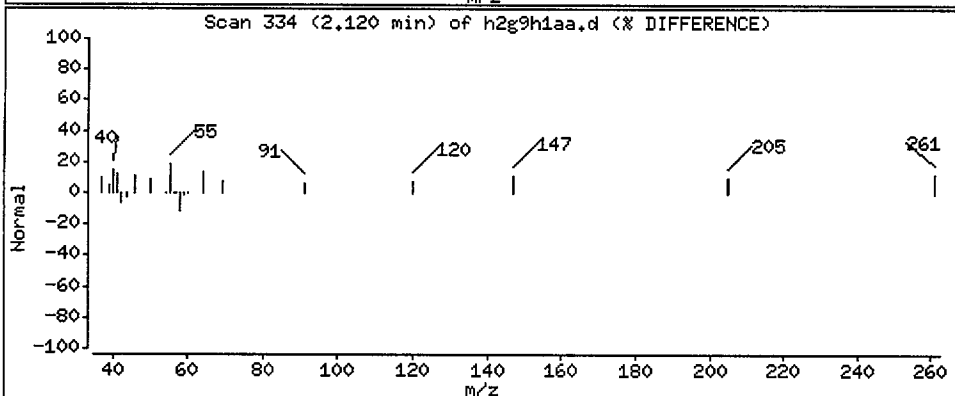
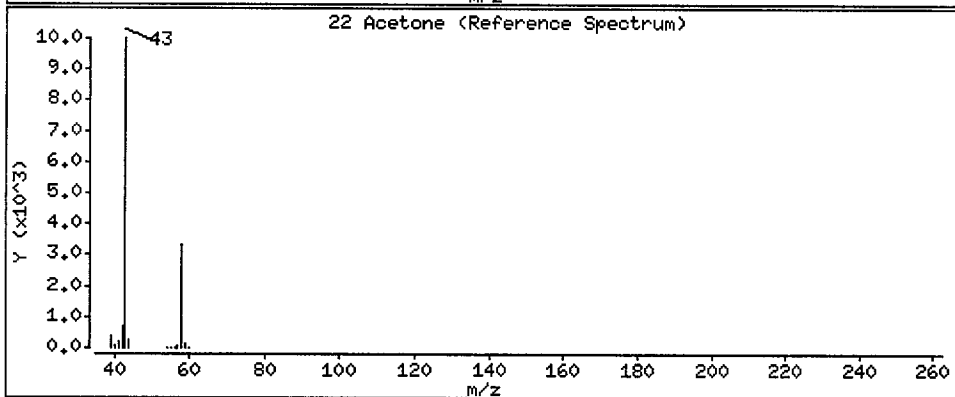
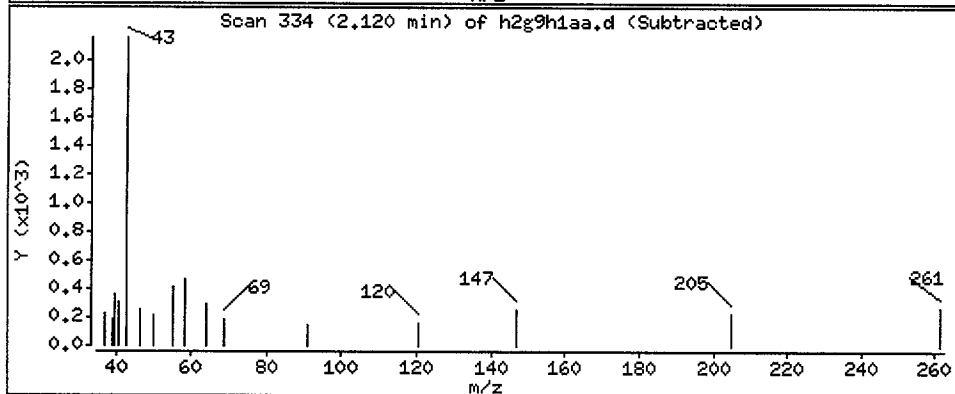
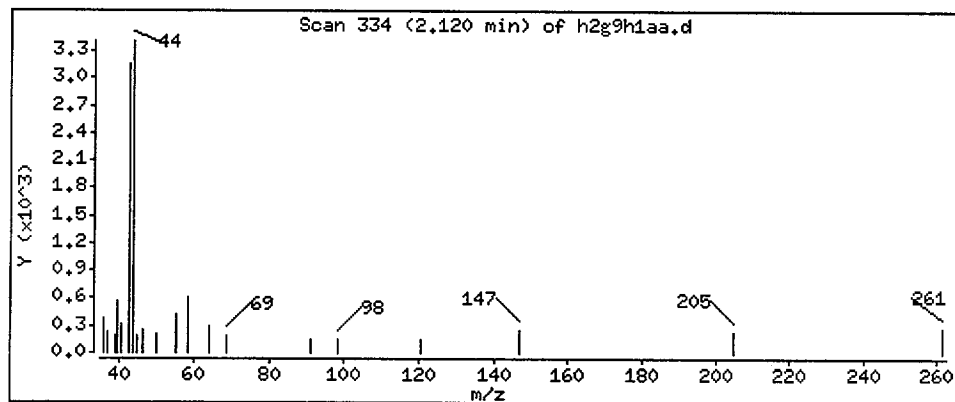
Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

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

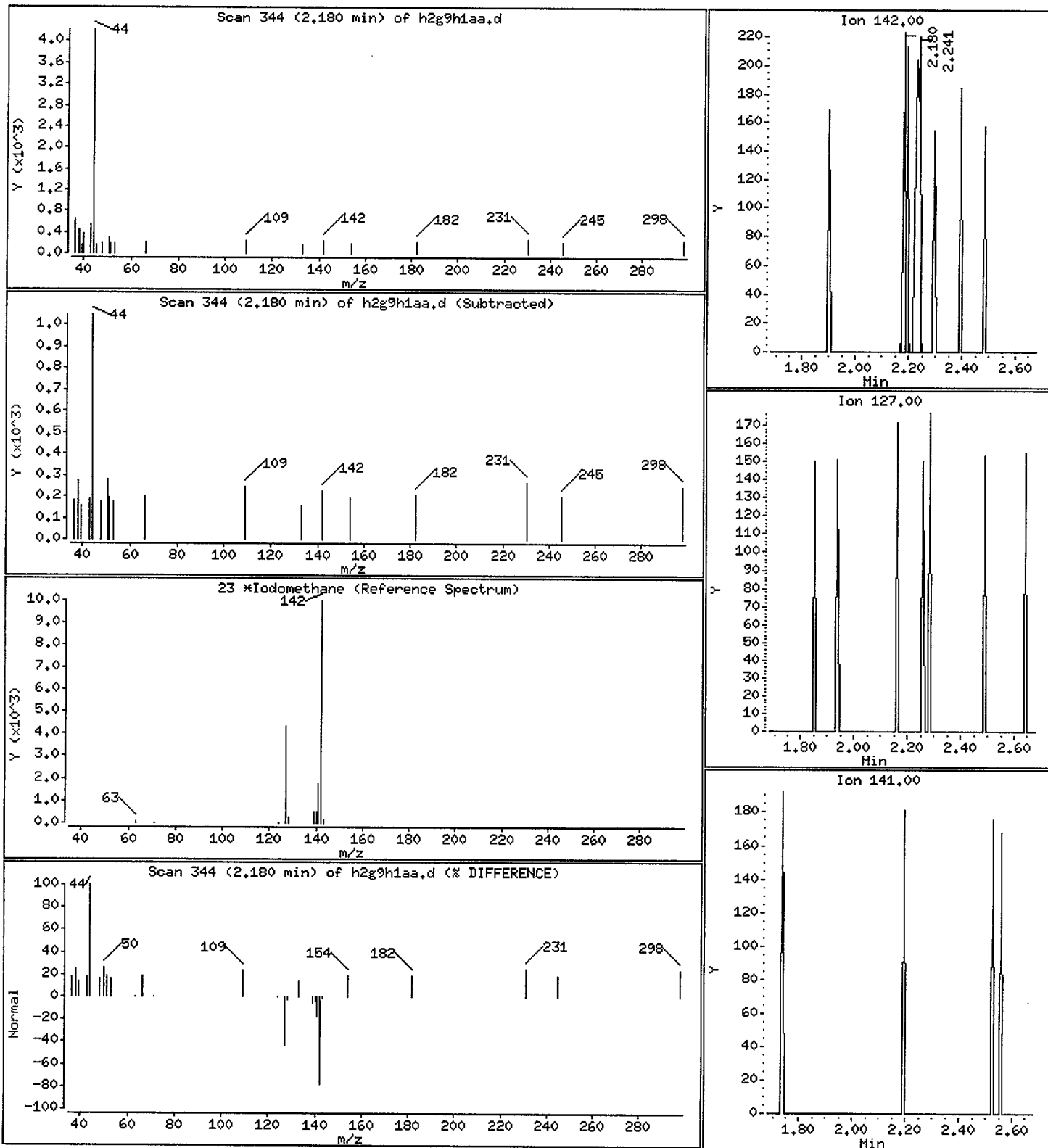
Operator: 063605

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

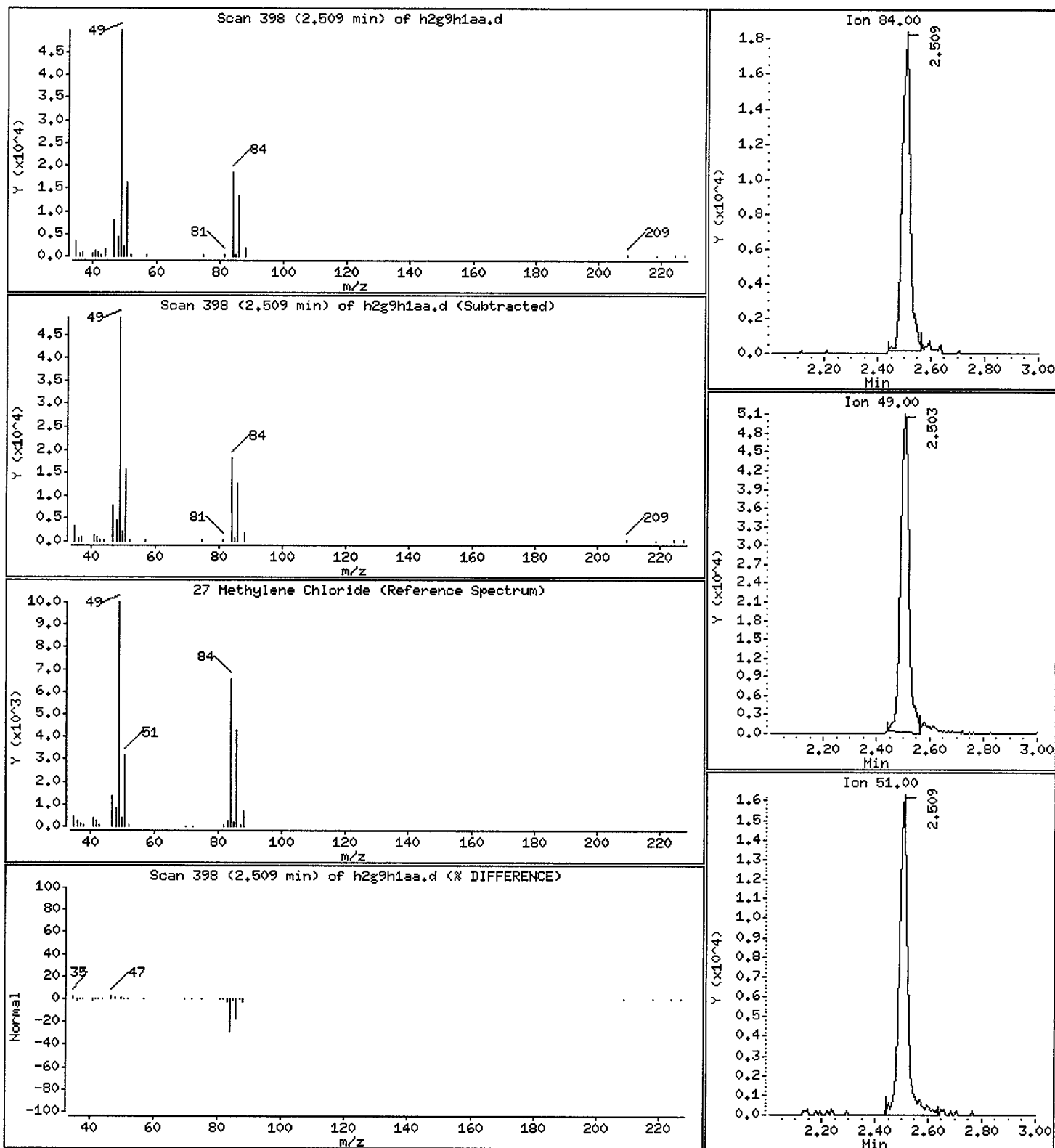
Operator: 063605

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

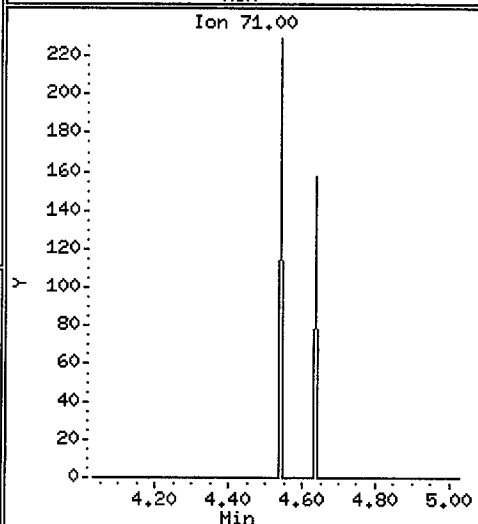
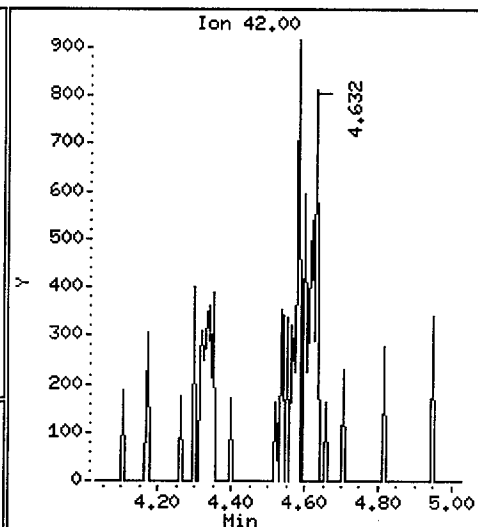
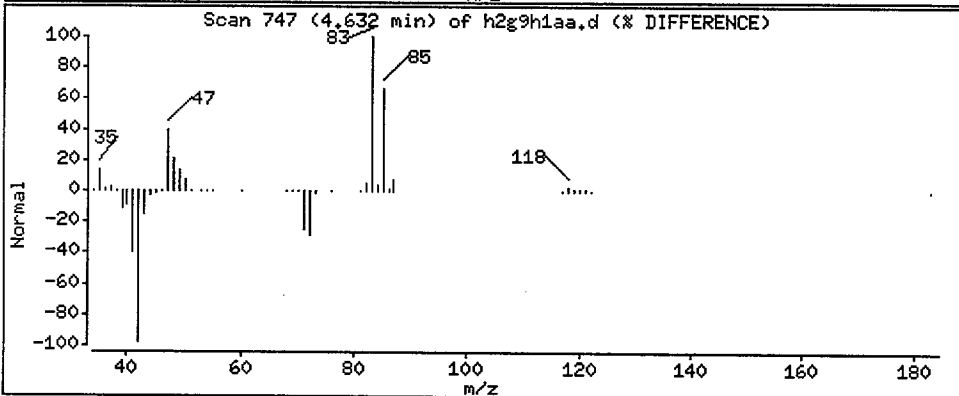
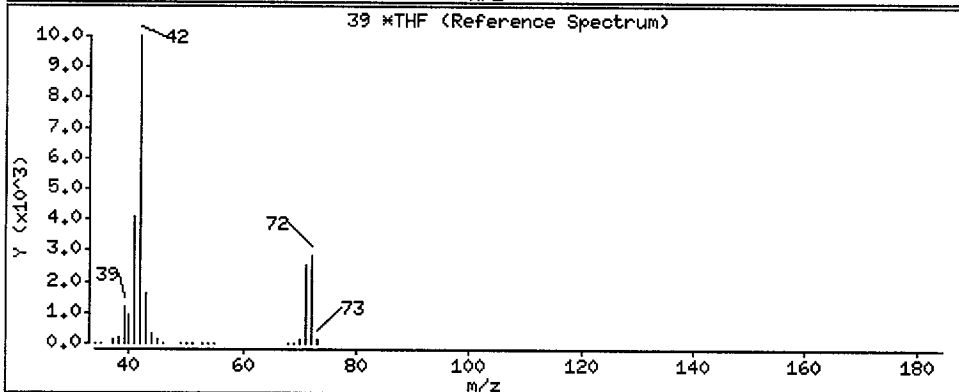
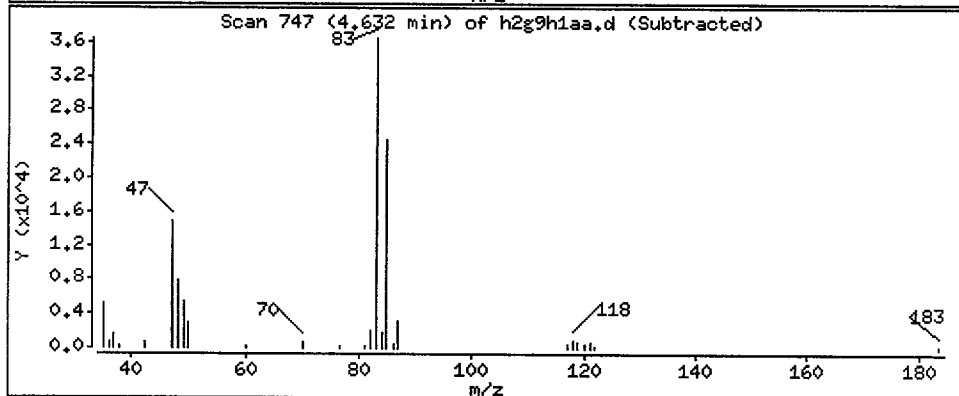
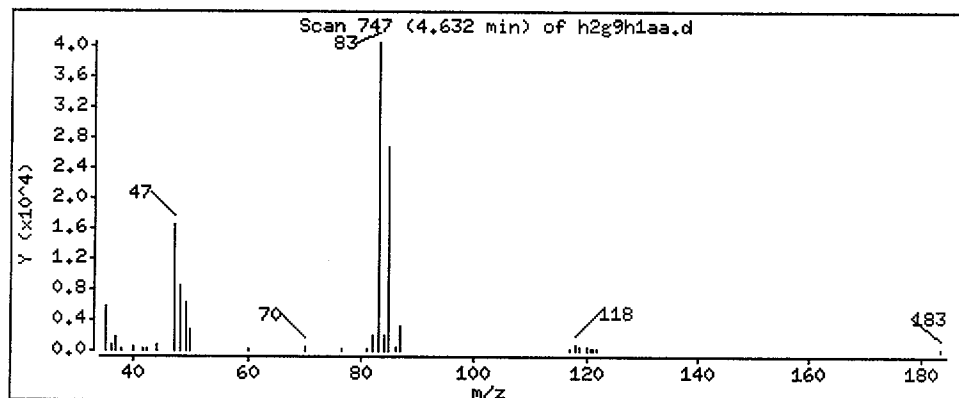
Operator: 063605

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

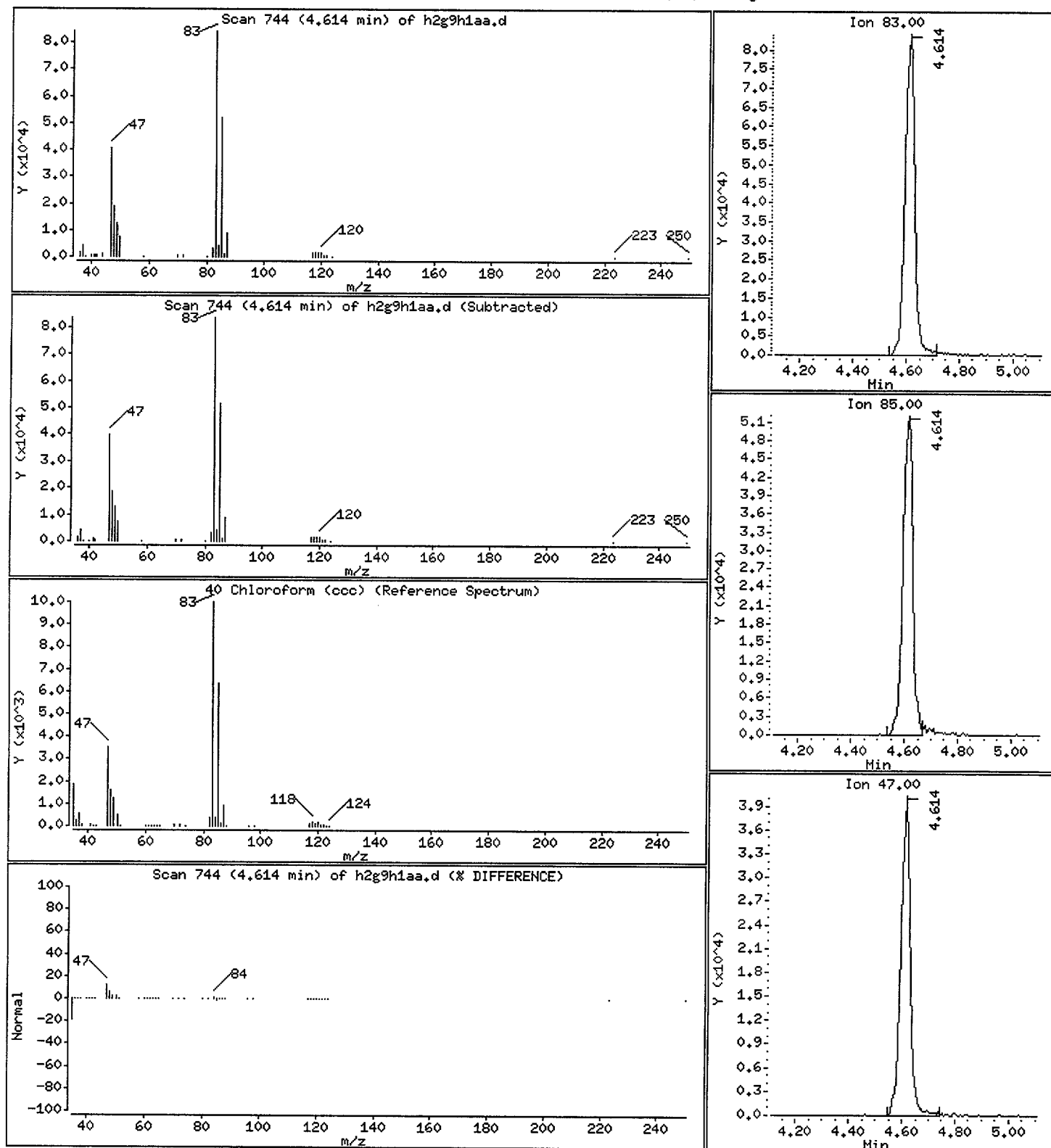
Operator: 063605

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

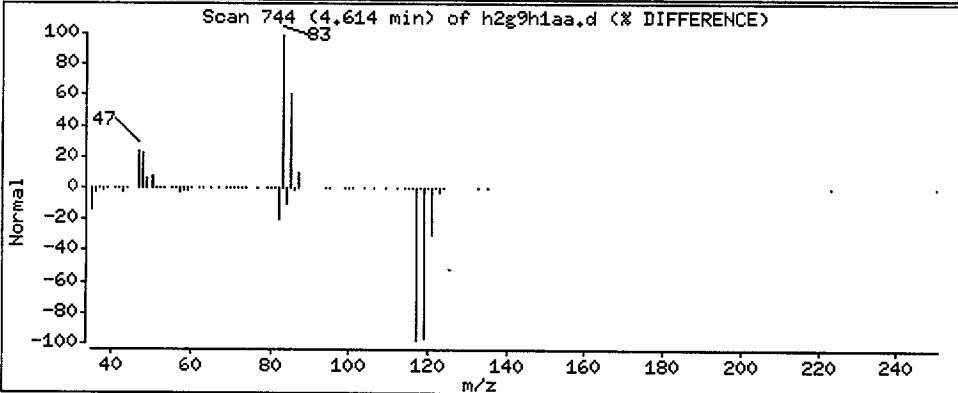
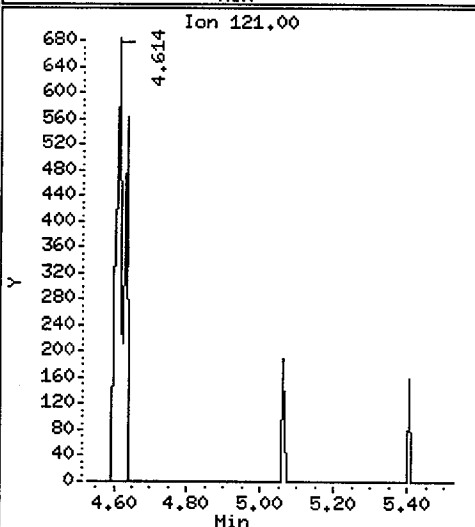
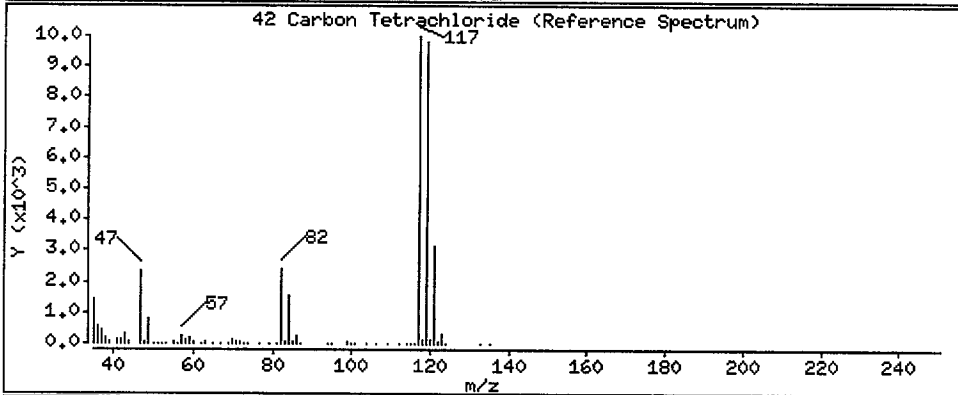
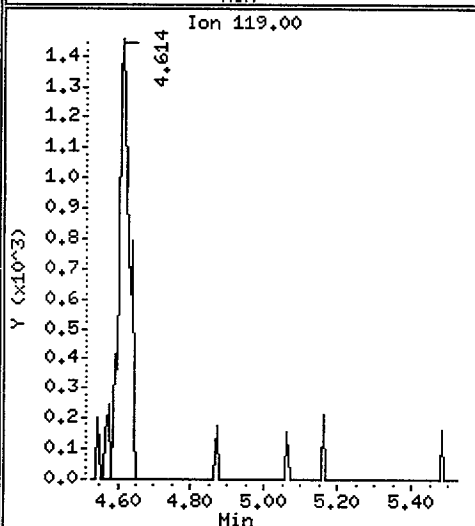
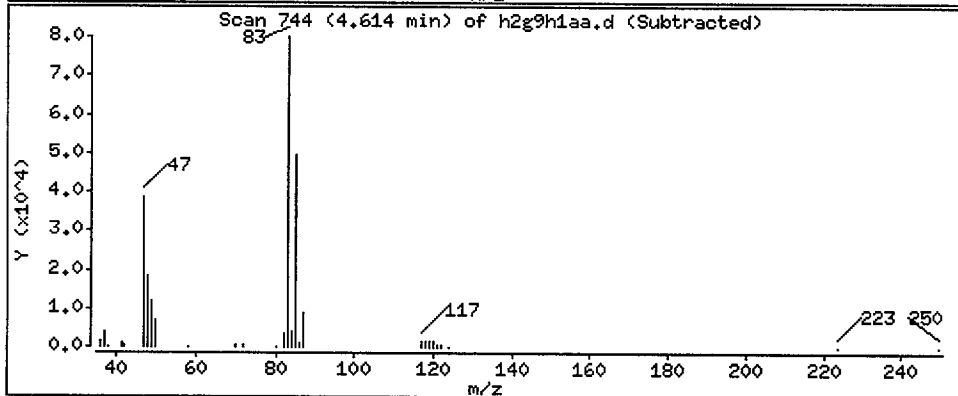
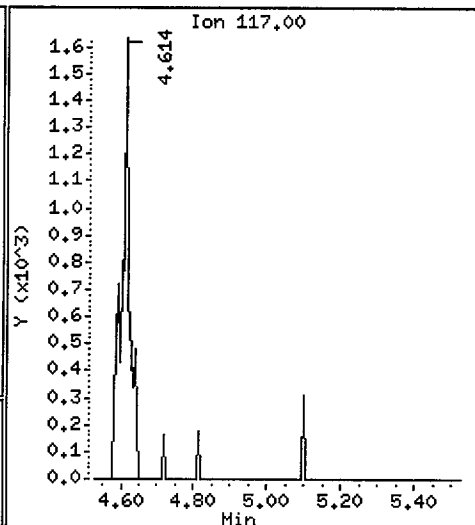
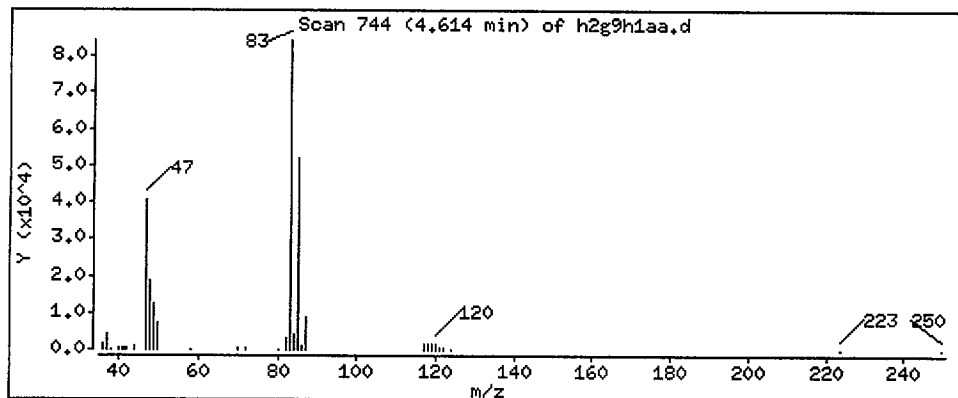
Operator: 063605

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

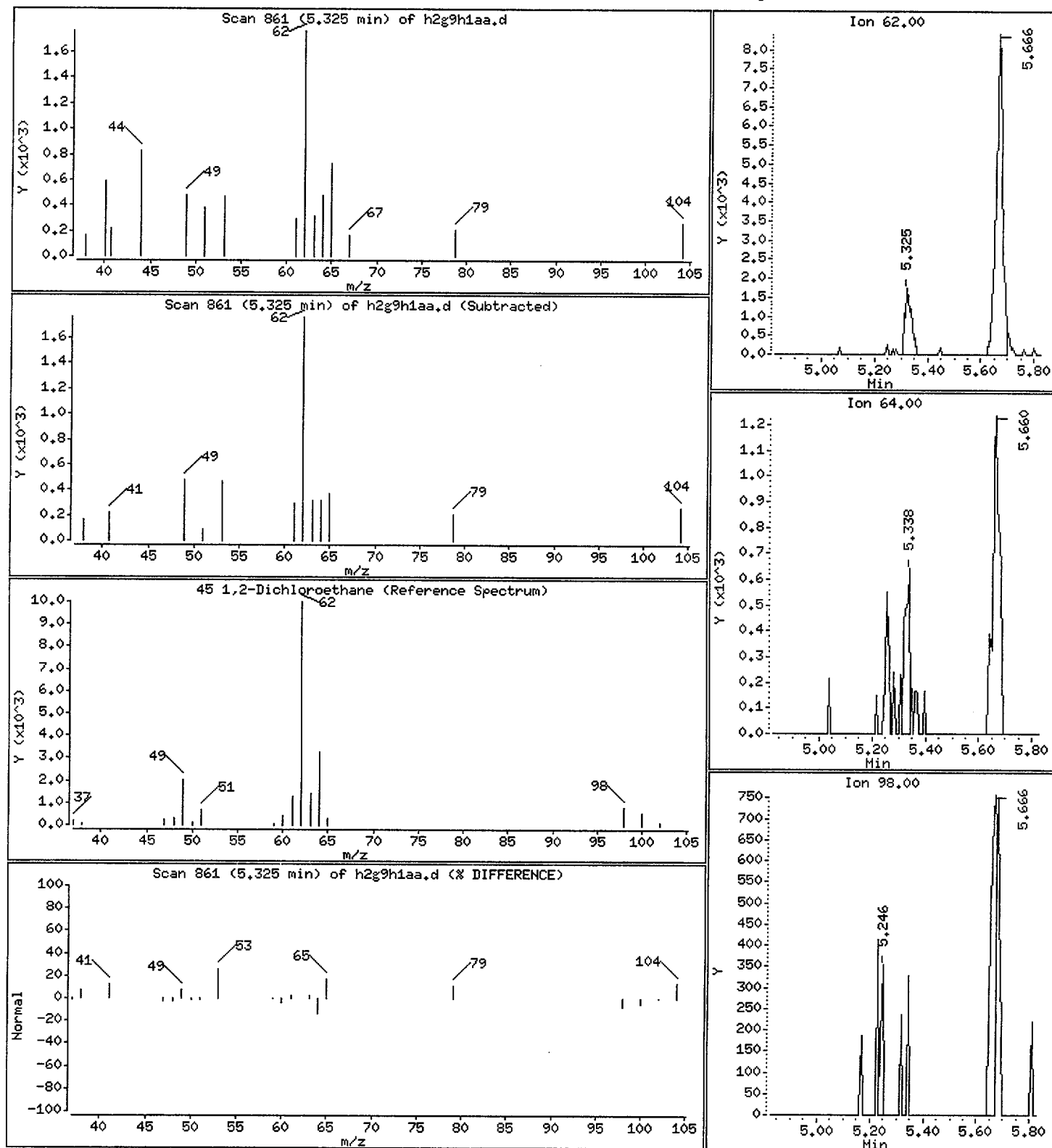
Operator: 063605

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

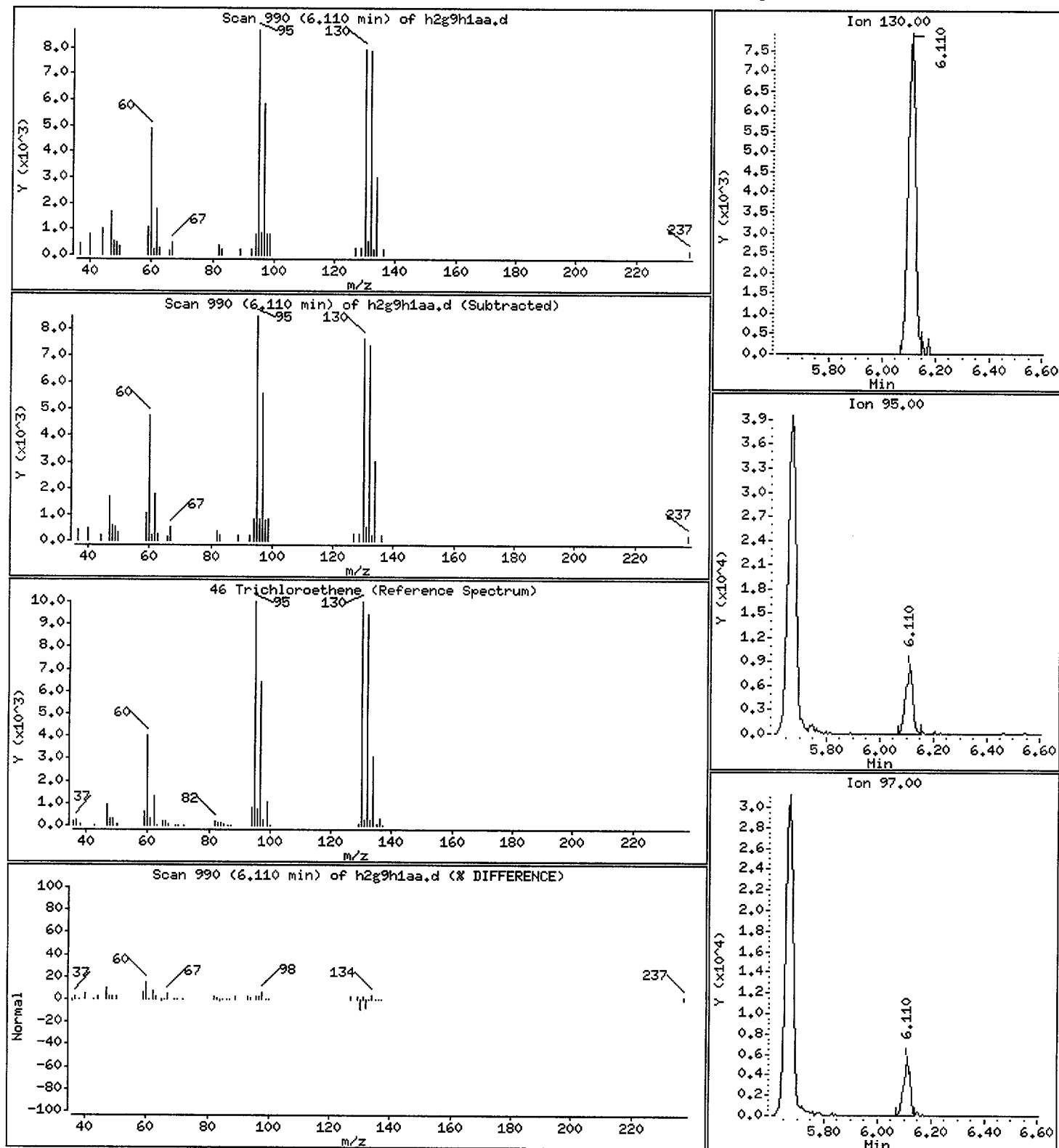
Operator: 063605

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

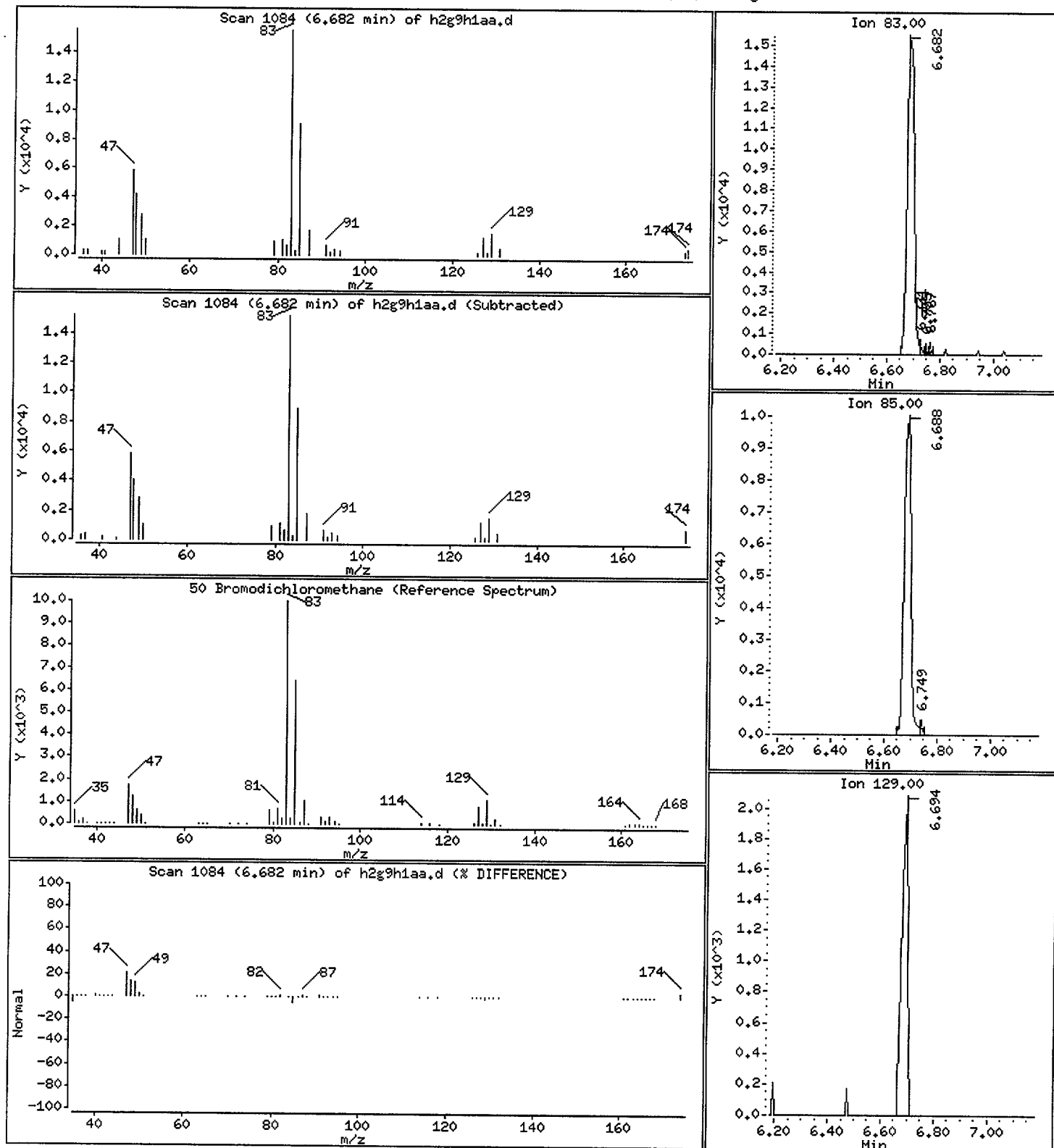
Operator: 063605

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

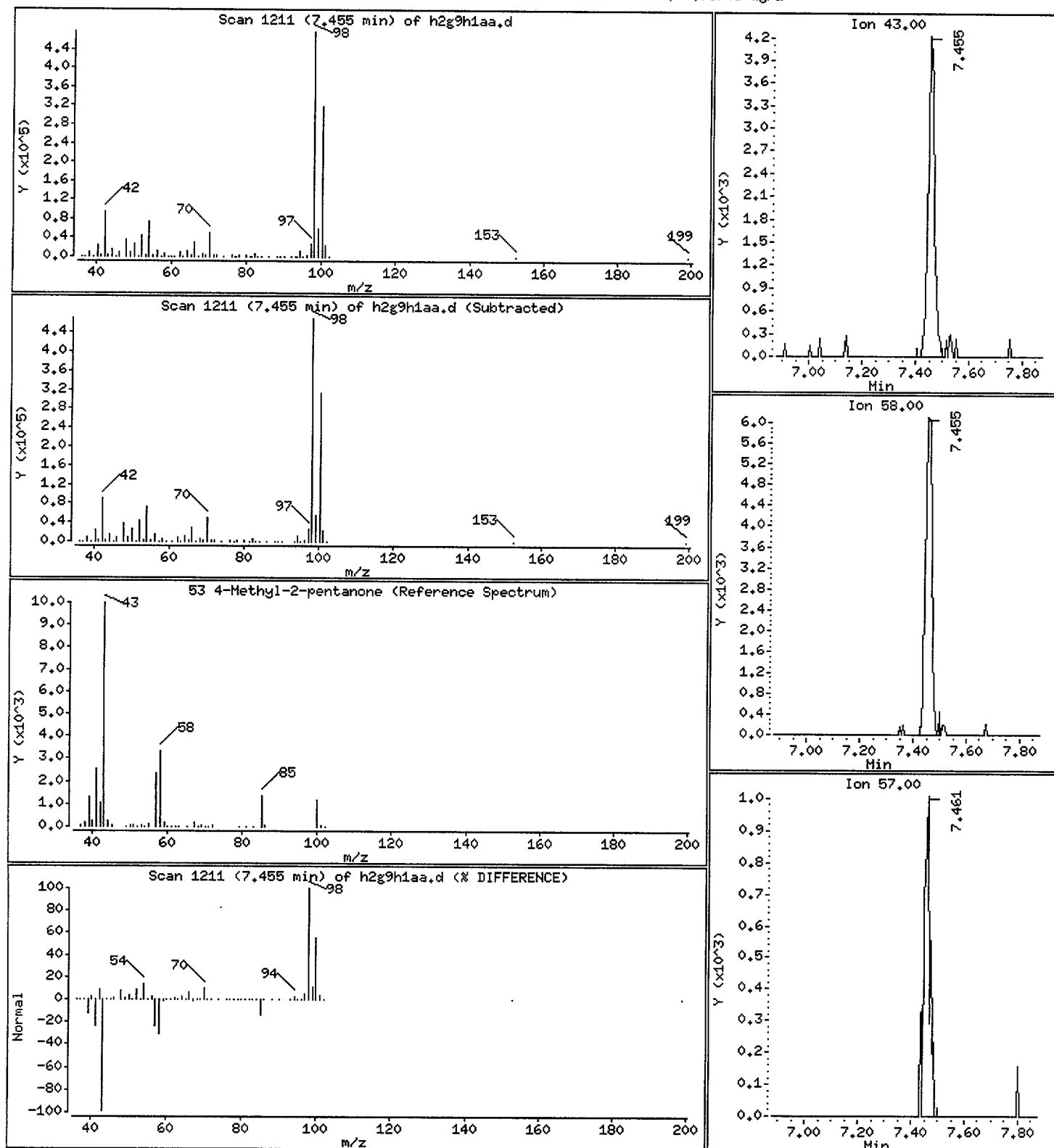
Operator: 063605

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

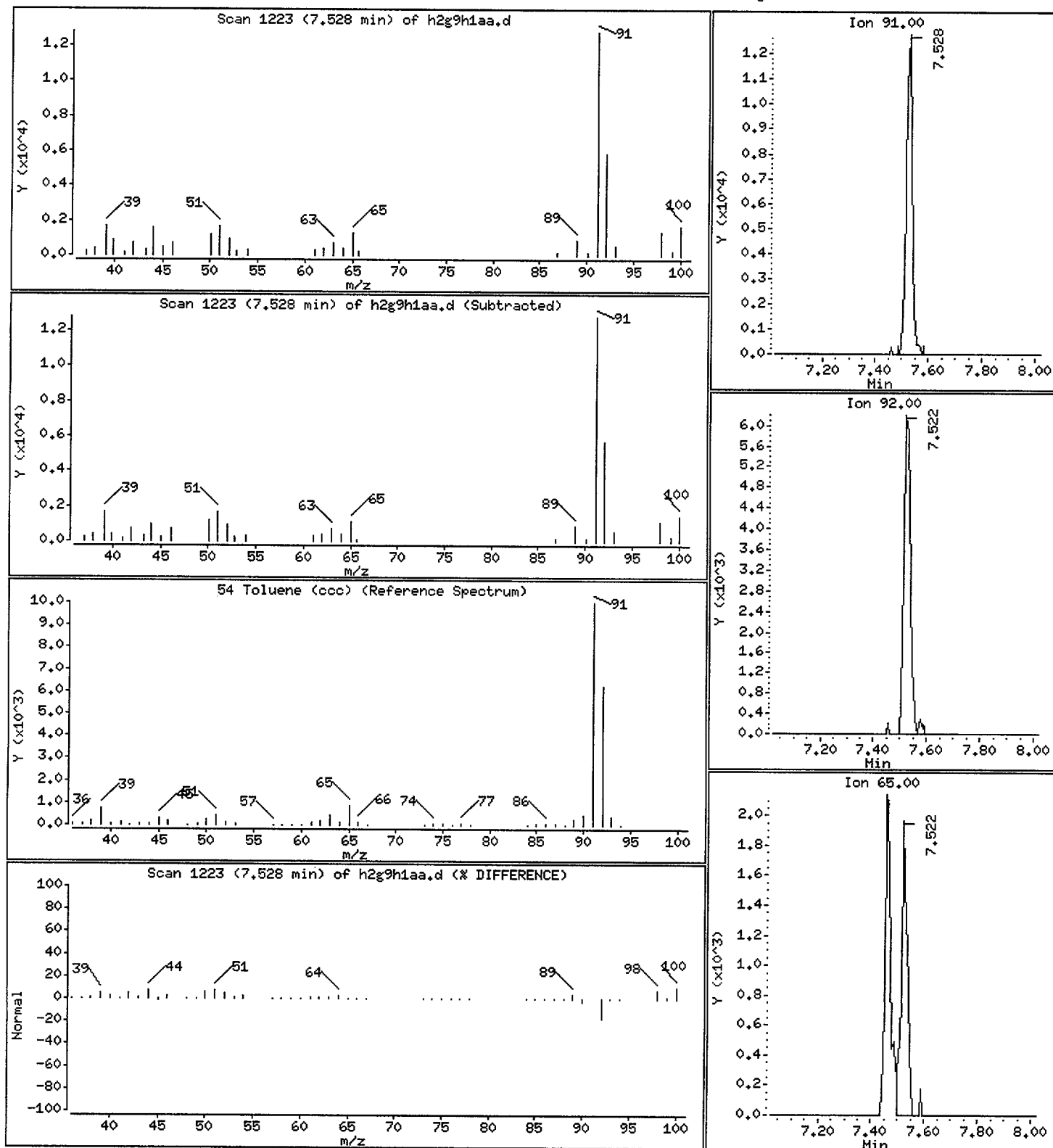
Operator: 063605

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

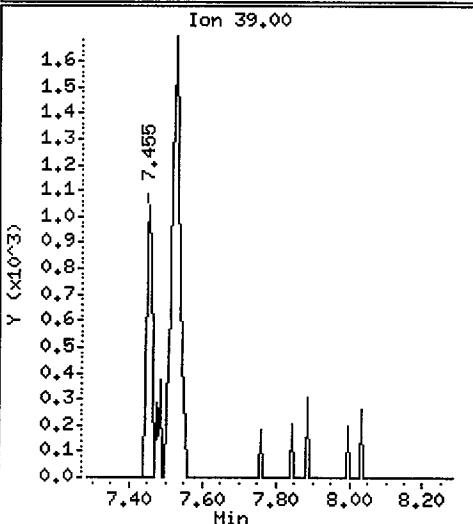
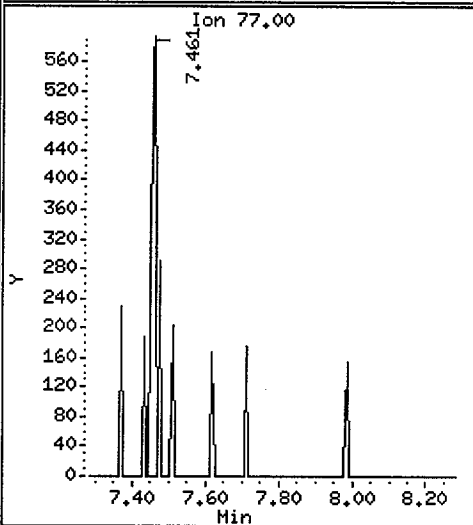
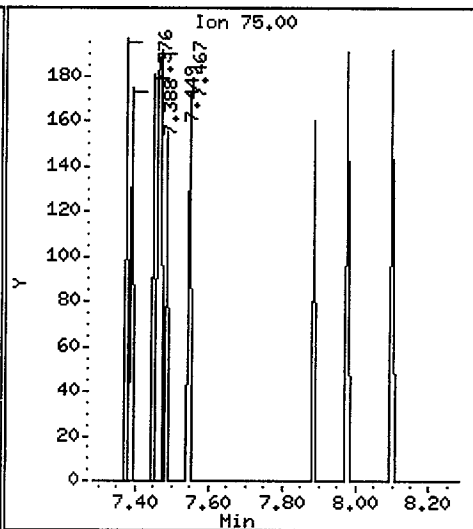
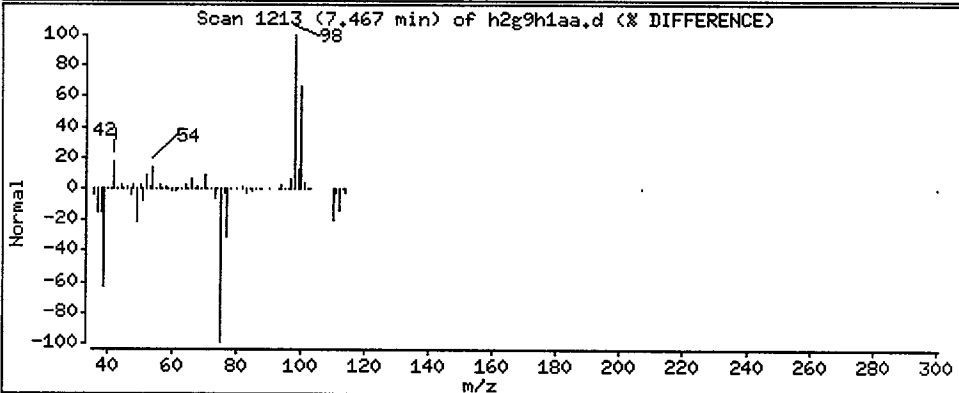
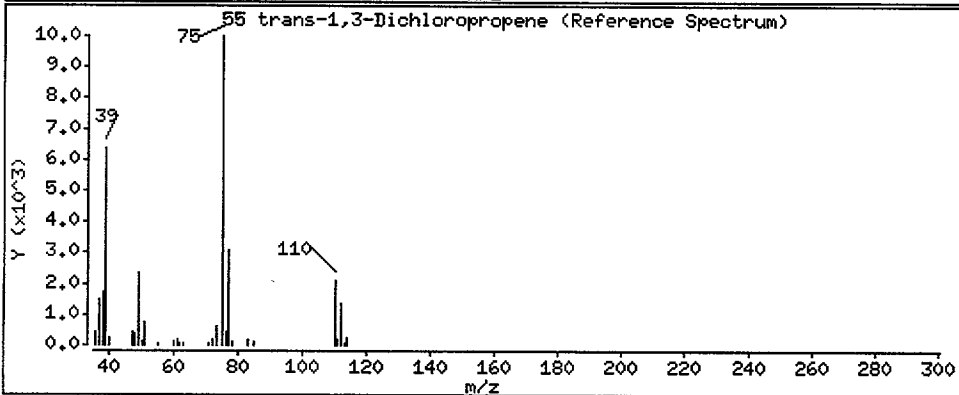
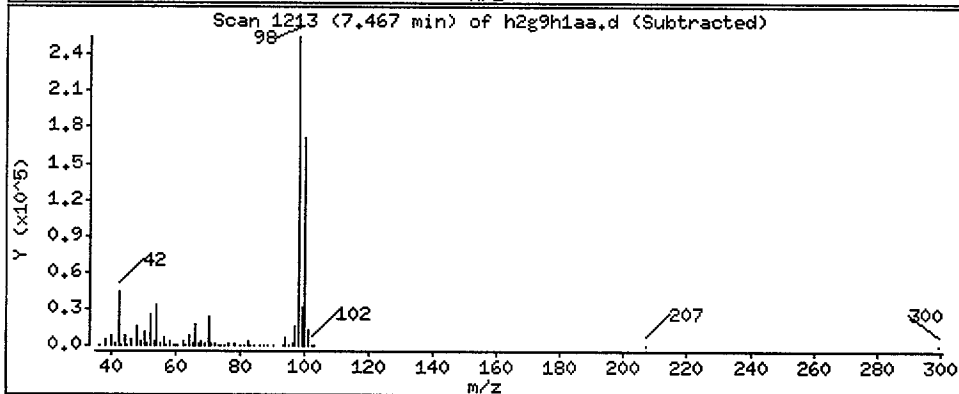
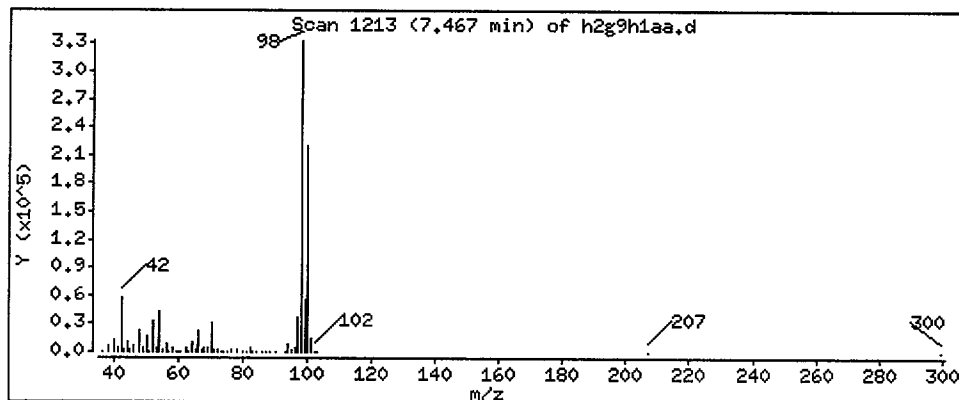
Operator: 063605

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

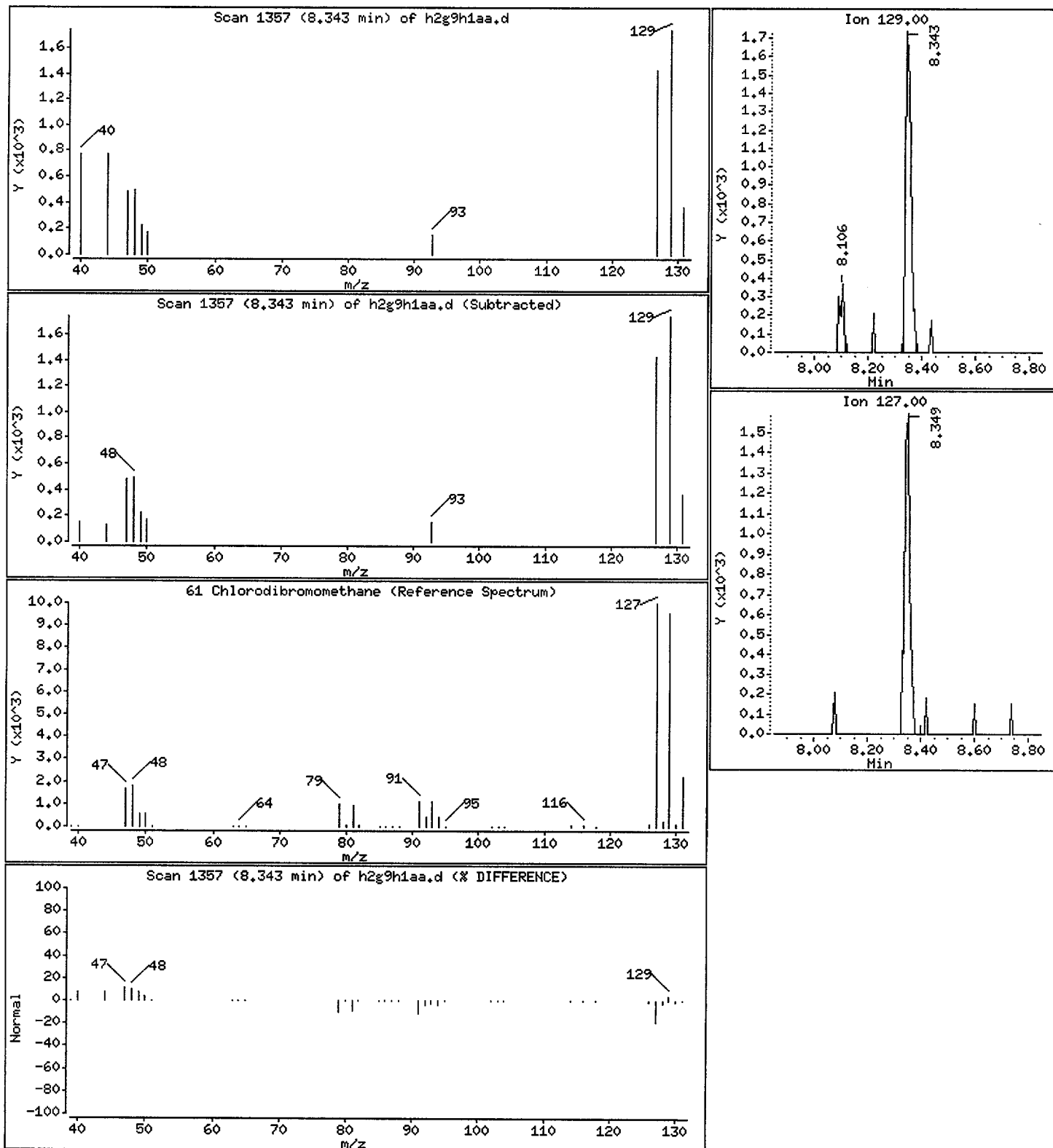
Operator: 063605

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

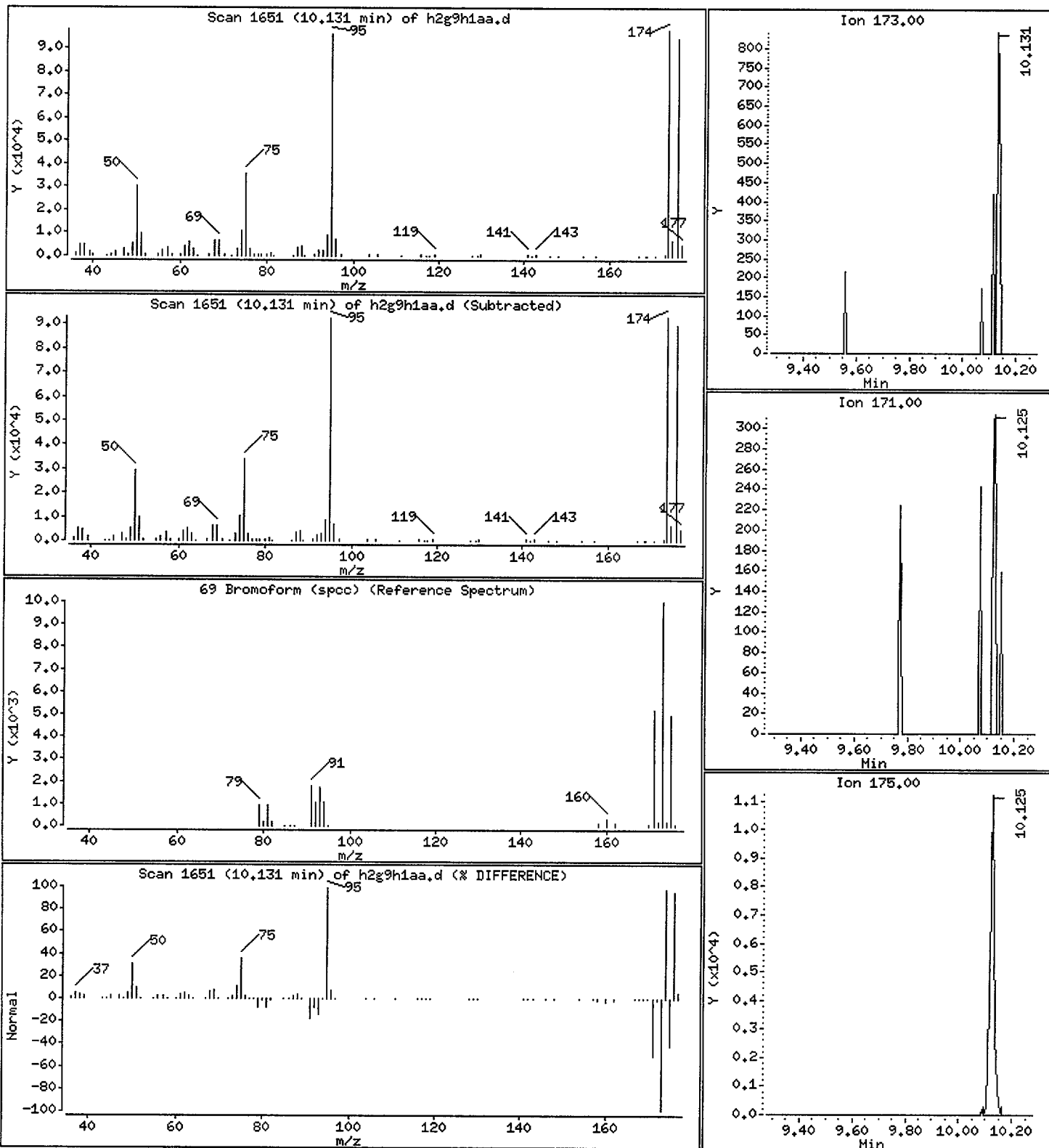
Operator: 063605

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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * 1000) * \text{CpndVariable}$

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		QUAL	QUANT			
		ON-COL (ug/L)	FINAL (ug/L)		LIBRARY	LIB ENTRY	CPND #	
=====	=====	=====	=====	=====	=====	=====	=====	
Carbon dioxide	0.909	835279	7.92895561	7.9290	5	NIST05.1	80	1

CAS #: 124-38-9

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,,

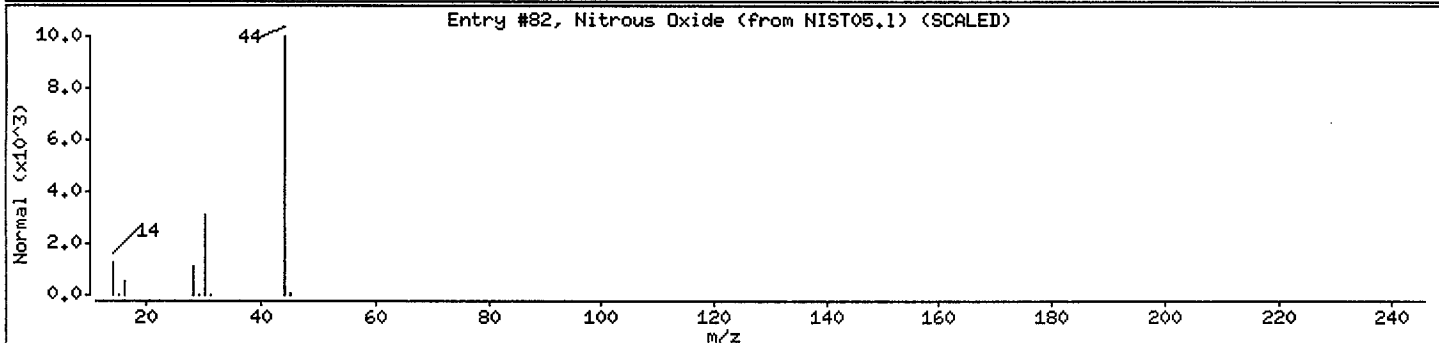
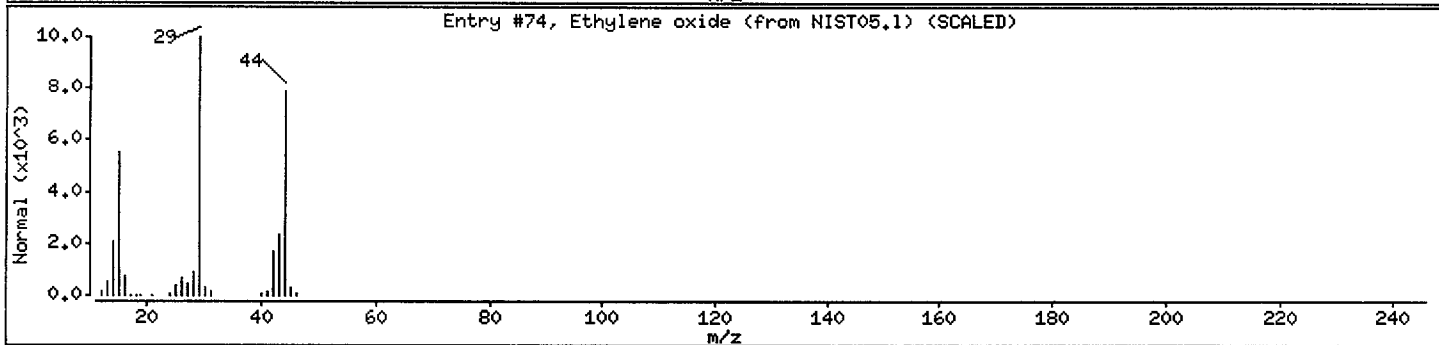
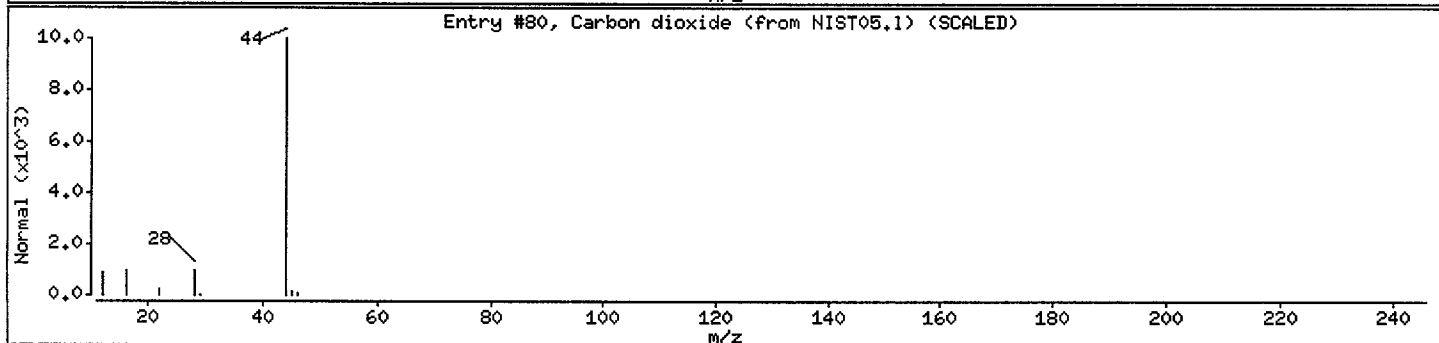
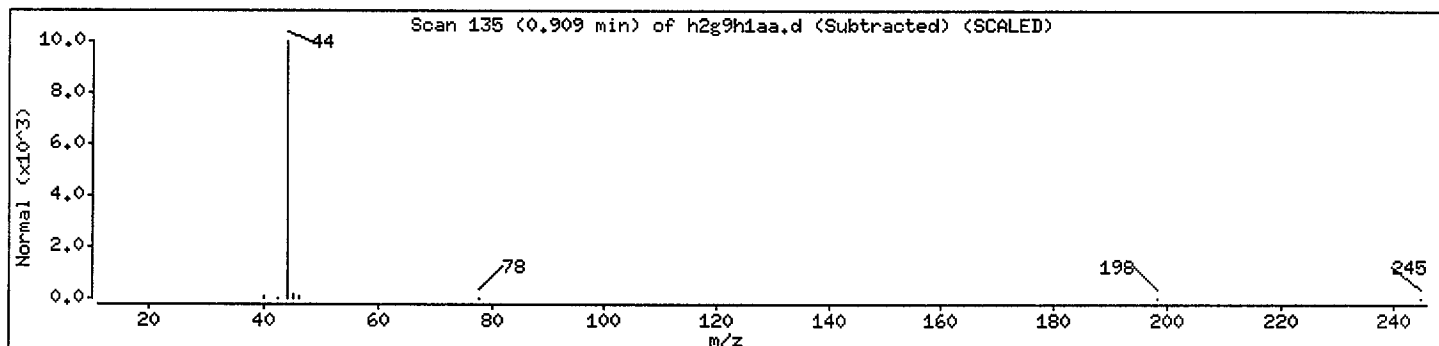
Purge Volume: 25.0

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

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	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~~

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4/7/06

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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

Calibration Date: 05-APR-2006
 Calibration Time: 14:42
 Client Smp ID: G-2916-R1-VOST COND
 Level: LOW
 Sample Type: WATER

Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
 Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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		SAMPLE	%DIFF
		LOWER	UPPER		
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

Client SDG: H6D030169

Sample Matrix: LIQUID

Fraction: VOA

Lab Smp Id: H2G9H1AC

Client Smp ID: G-2916-R1-VOST COND

Level: LOW

Operator: 063605

Data Type: MS DATA

SampleType: SAMPLE DUPLICATE{♥LÇz·H @

SpikeList File: allcmpds.spk

Quant Type: ISTD

Sublist File: focus.sub

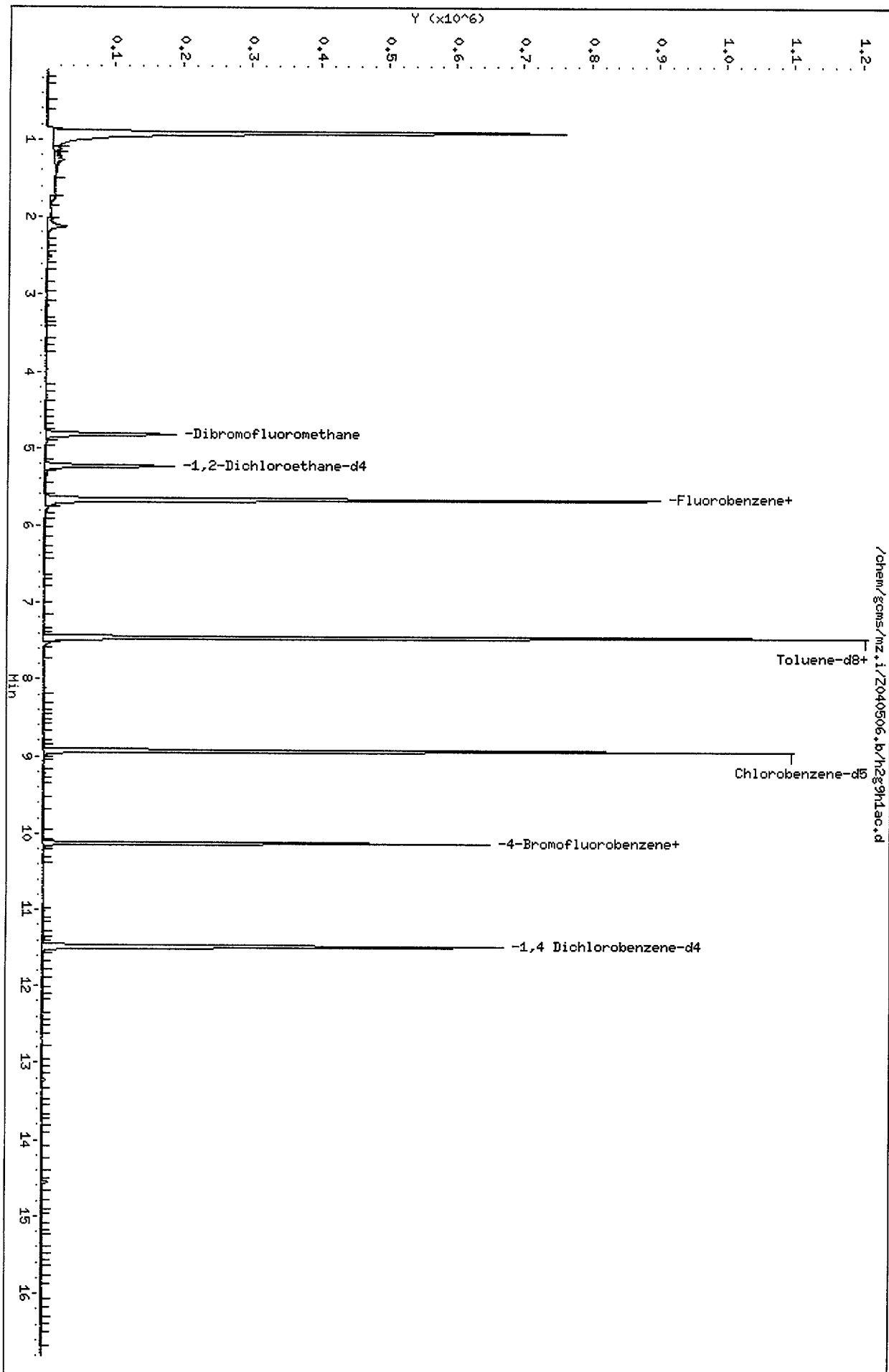
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m

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	11.567	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/2040506.b/h2g9h1ao.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

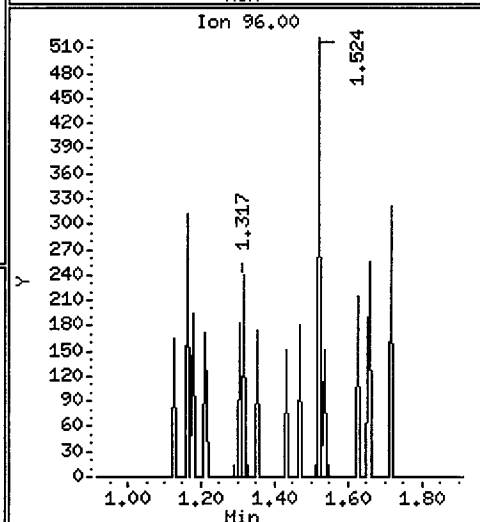
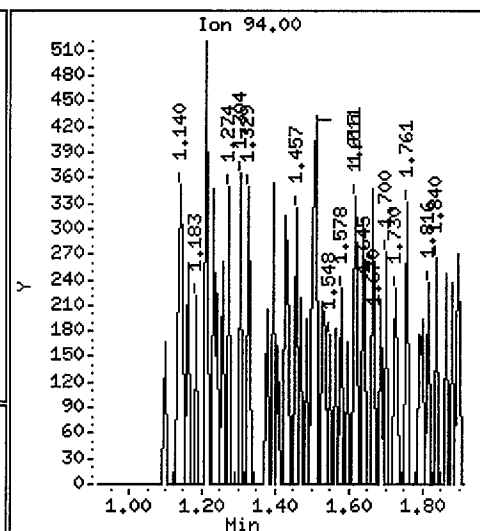
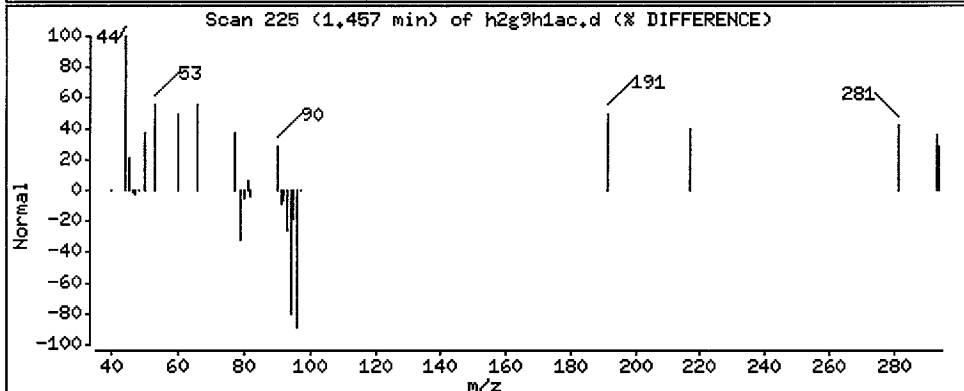
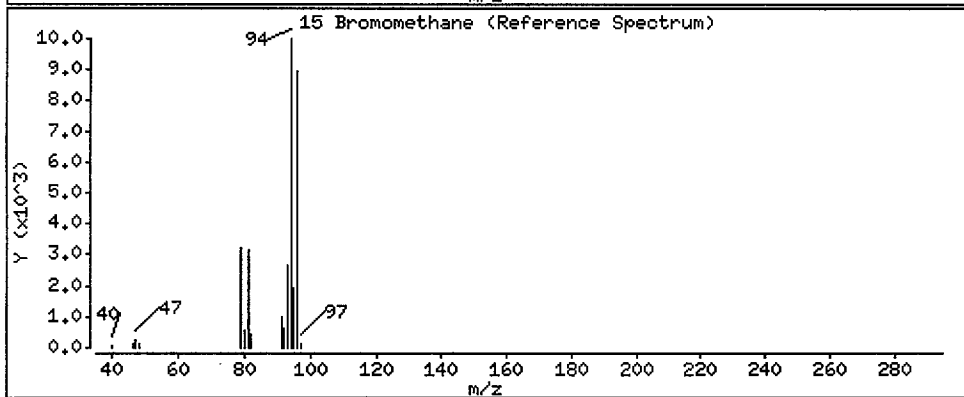
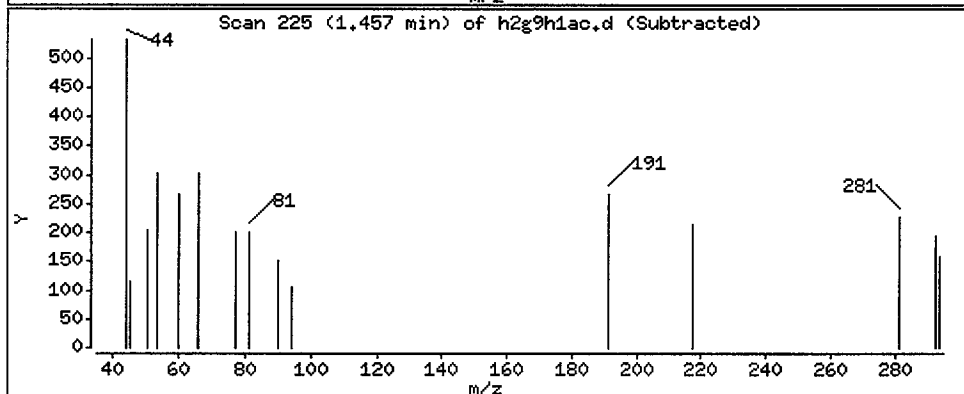
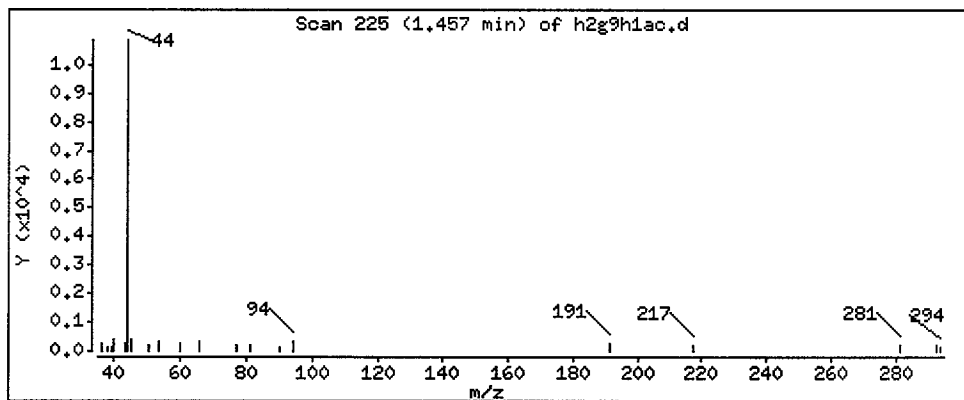
Operator: 063605

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

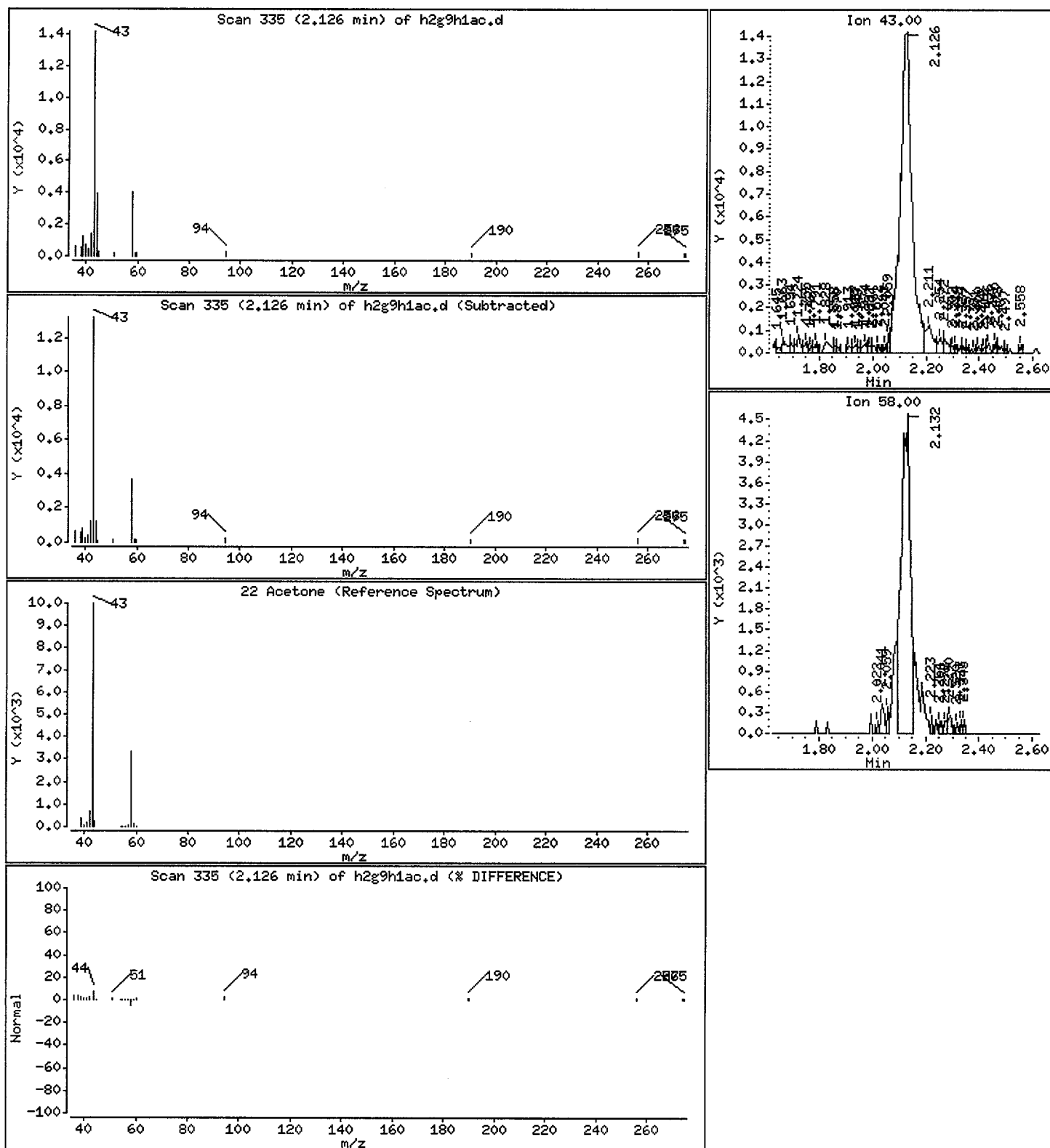
Operator: 063605

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

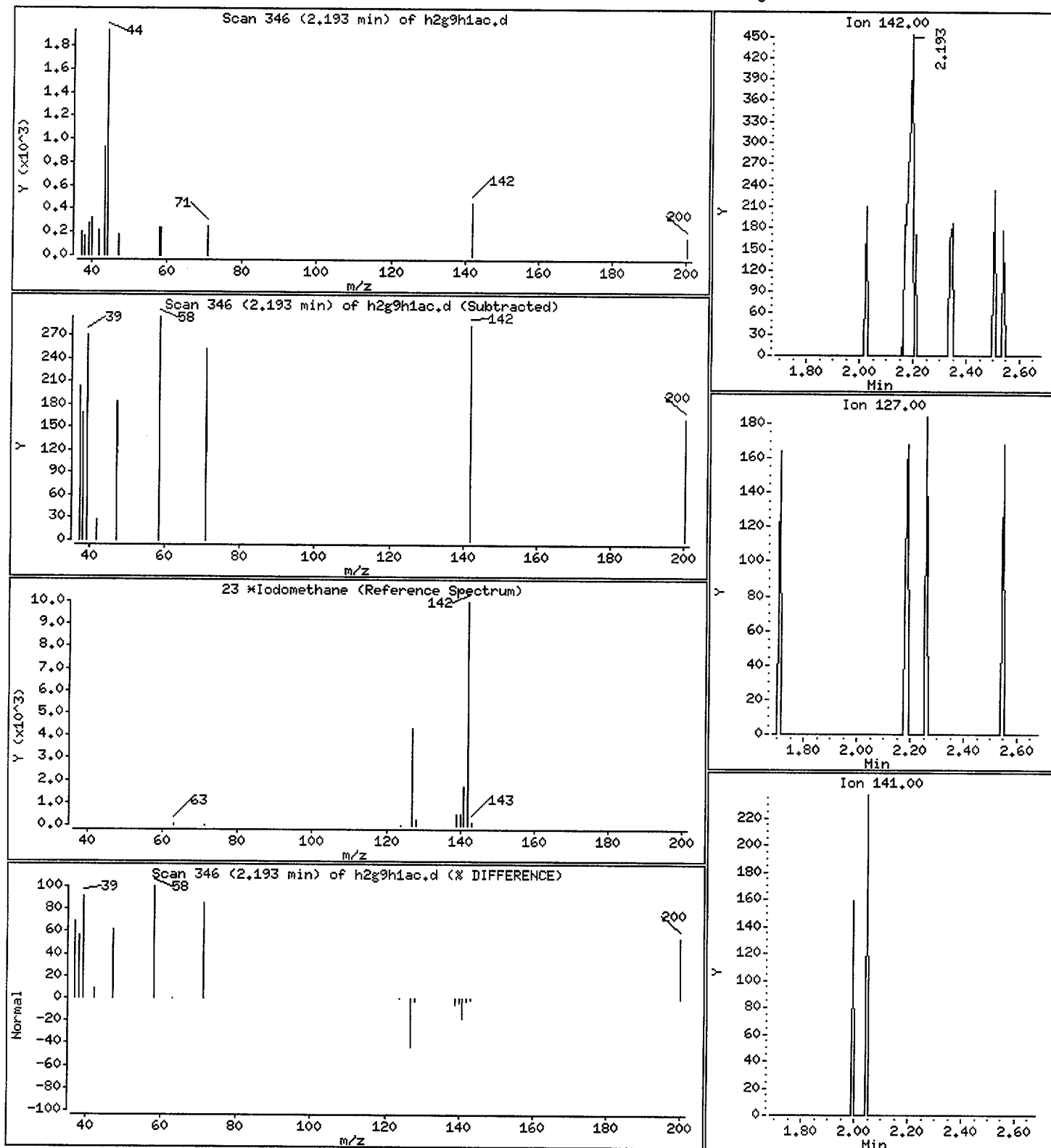
Operator: 063605

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

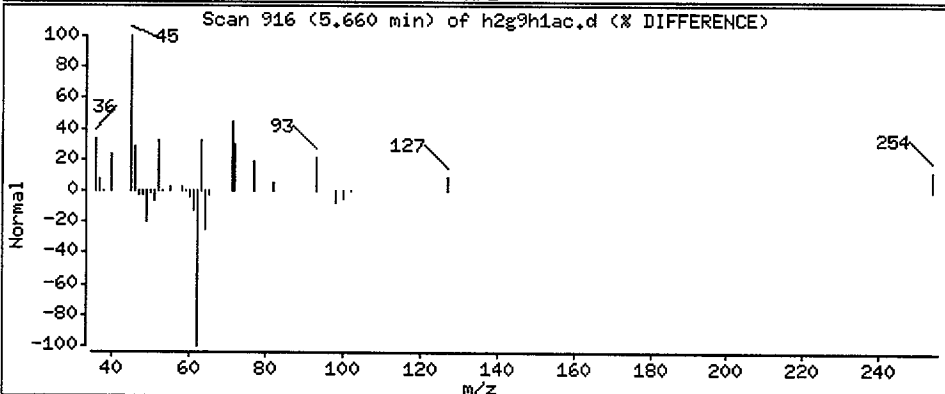
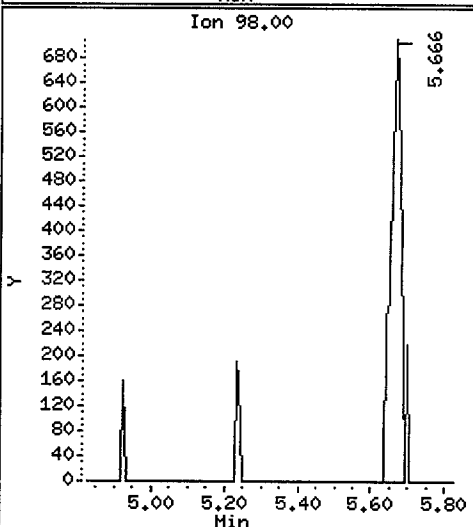
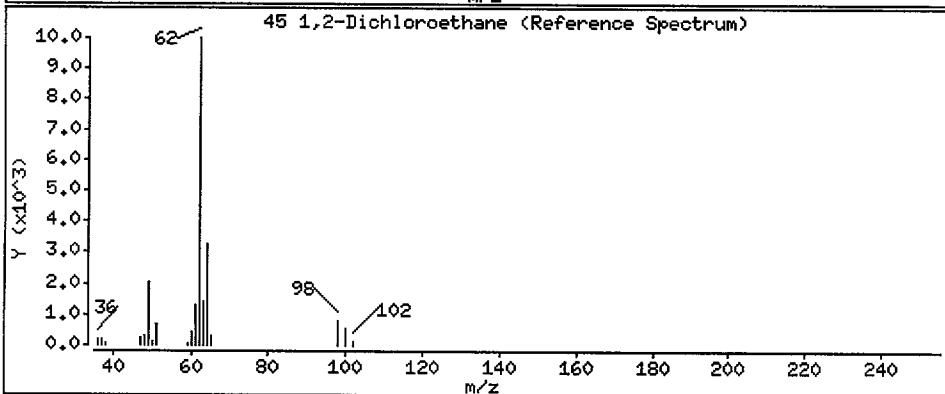
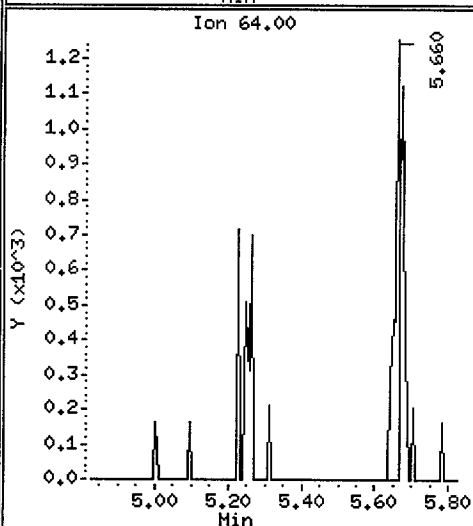
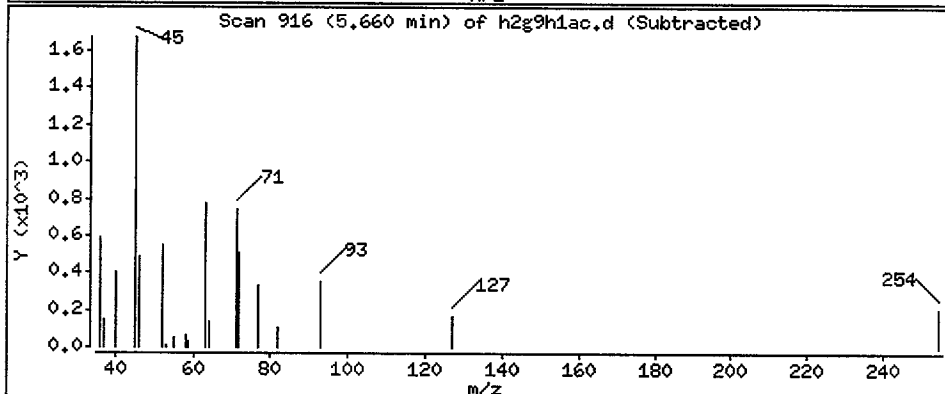
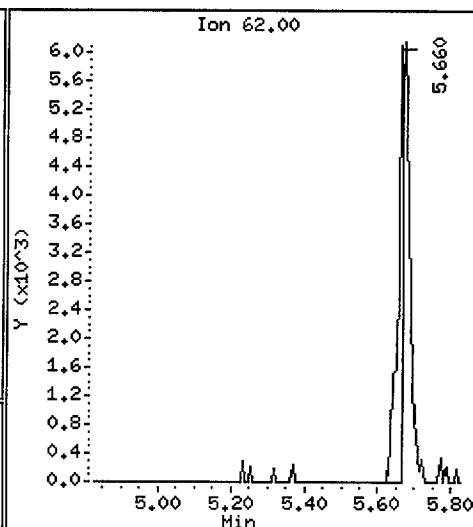
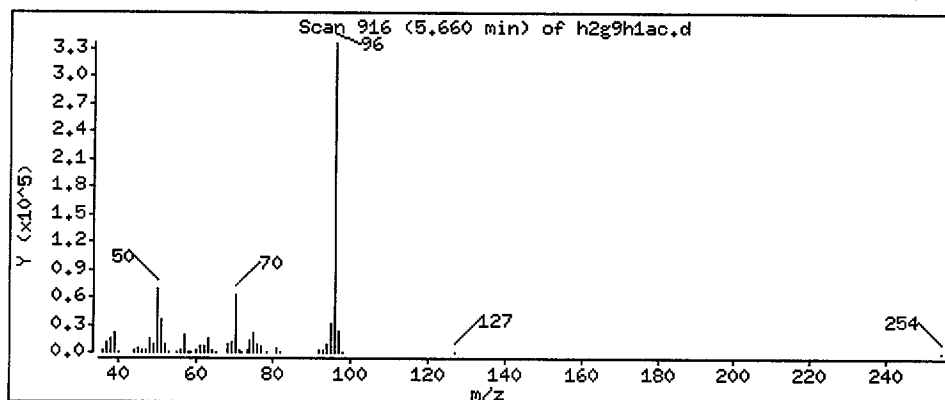
Operator: 063605

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

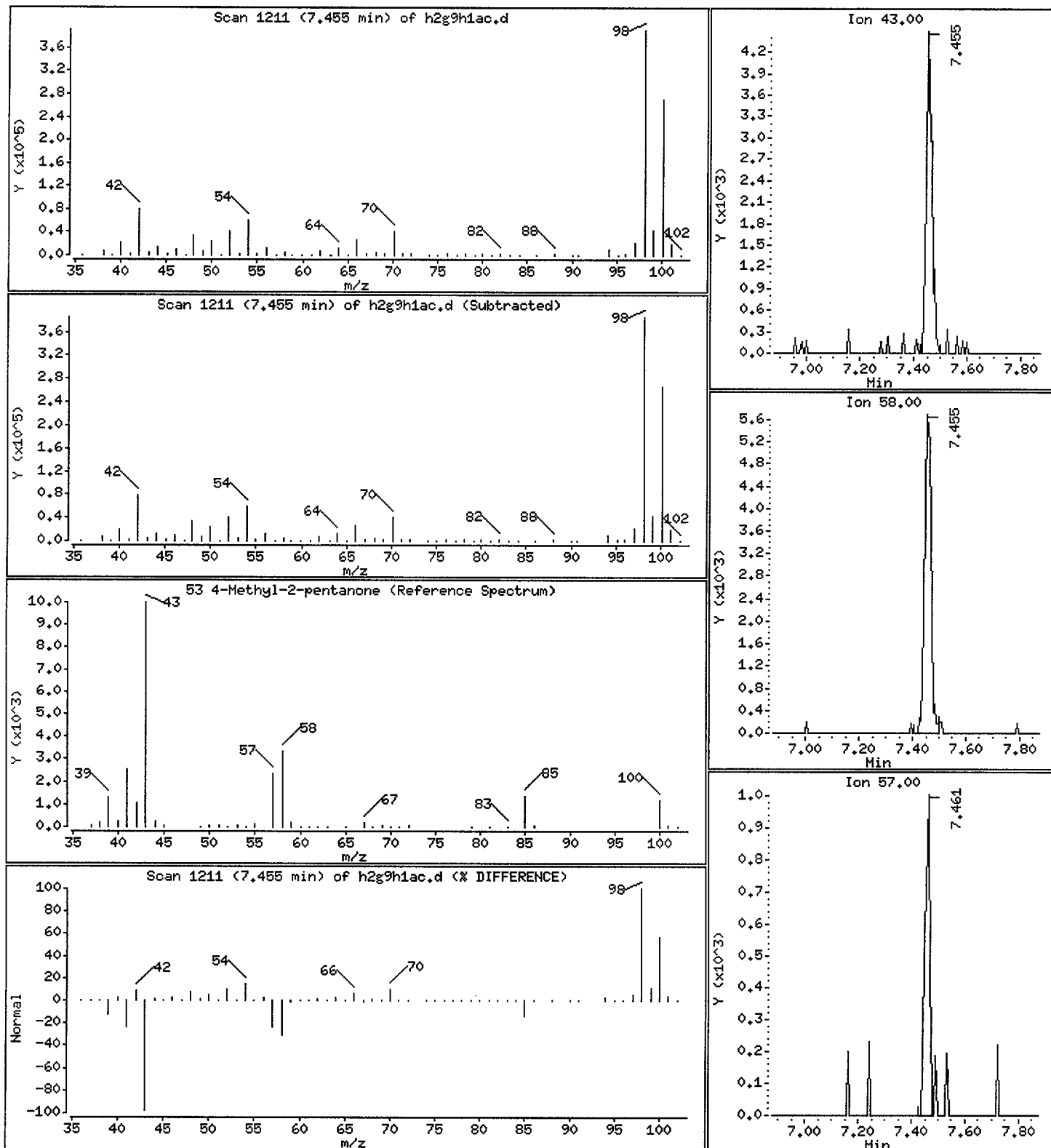
Operator: 063605

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

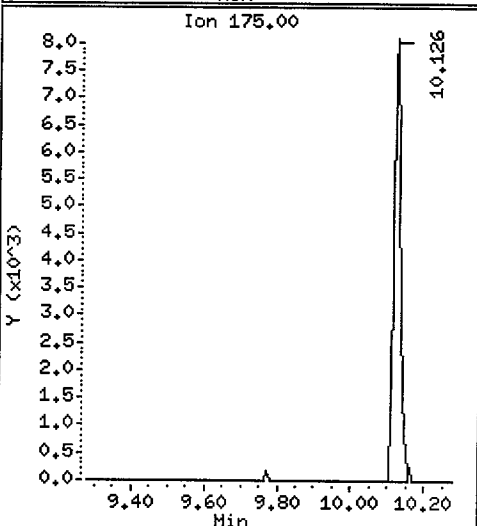
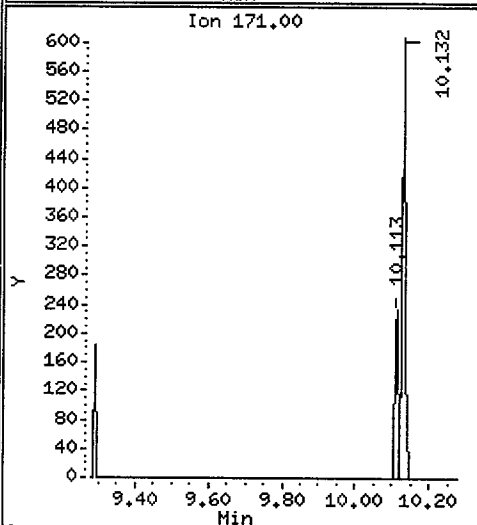
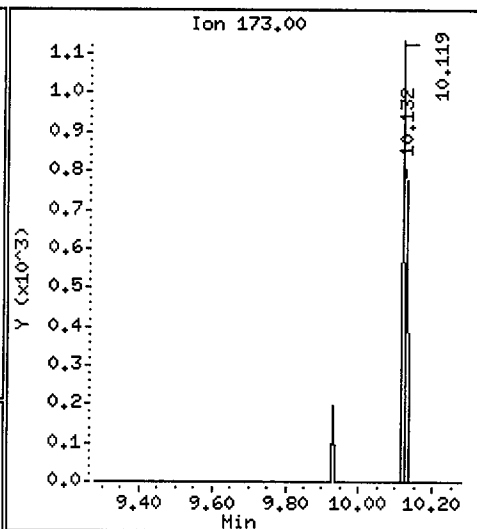
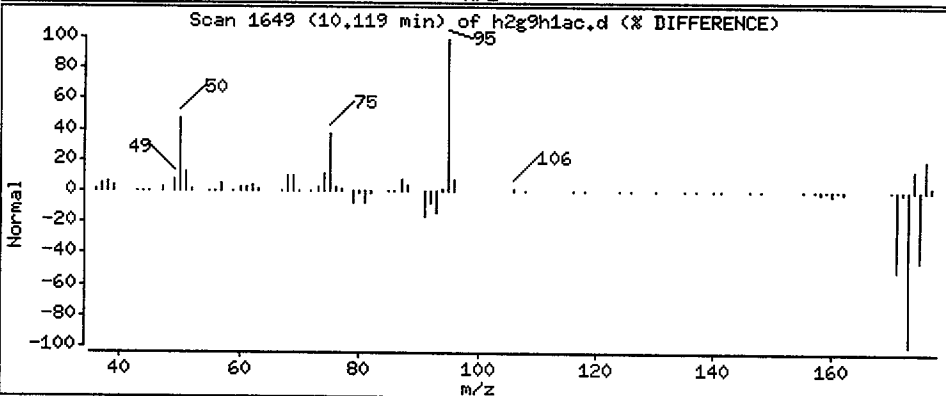
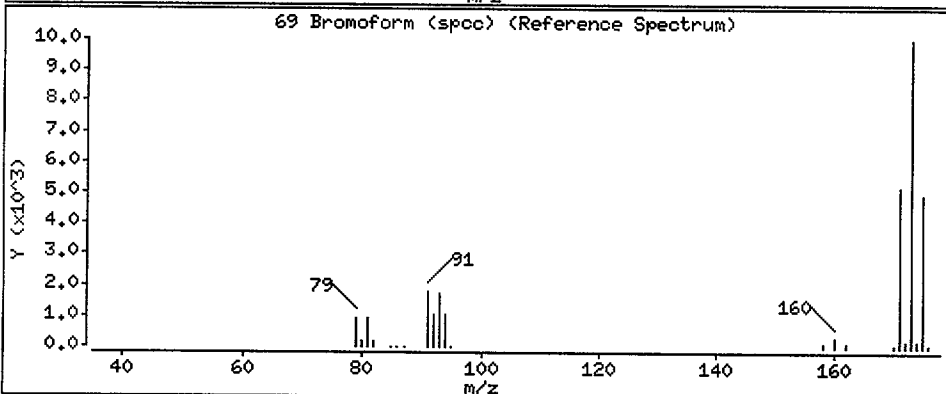
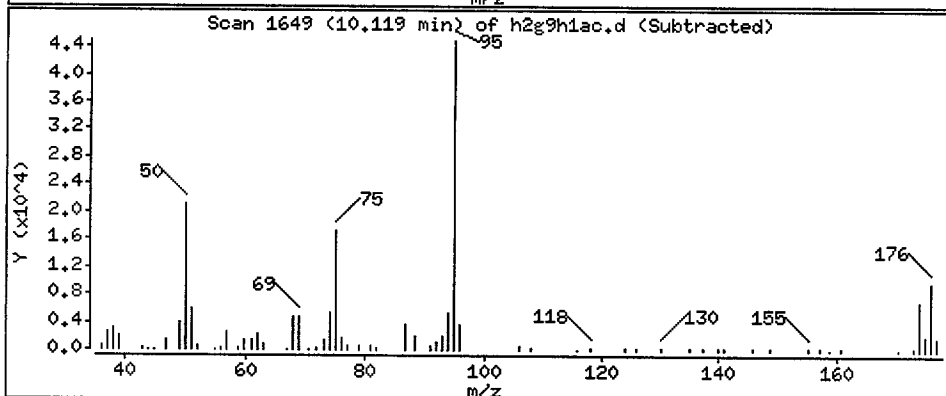
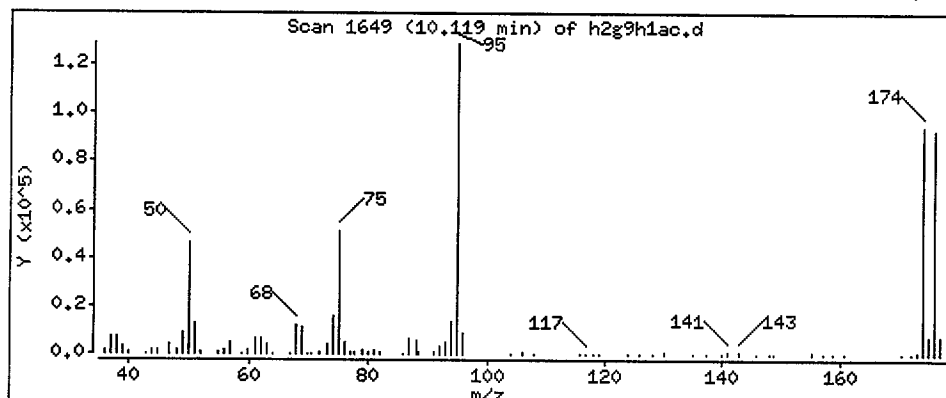
Operator: 063605

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: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * 1000) * \text{CpndVariable}$

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

CONCENTRATIONS					QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
0.909	751944	8.32501877	8.3250	5	NIST05.1	80	1

Carbon dioxide
 CAS #: 124-38-9
 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,,

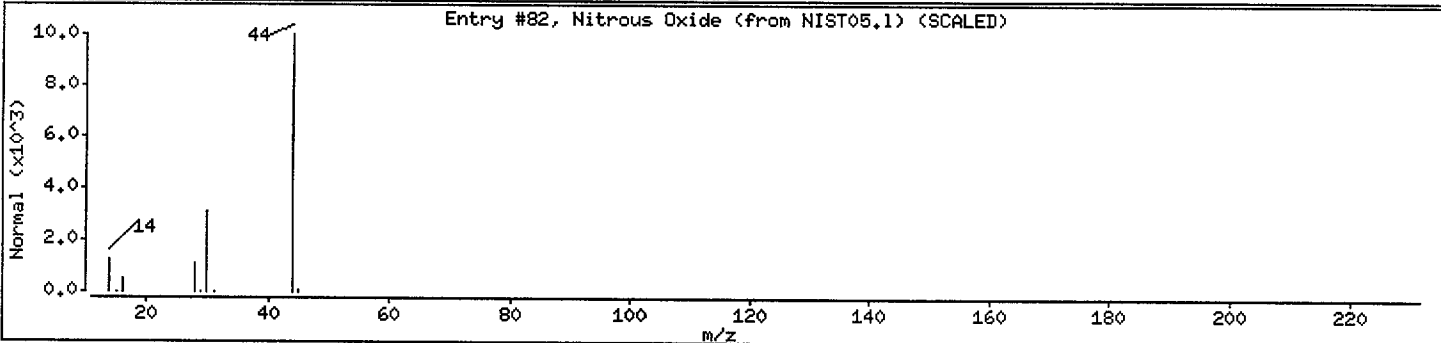
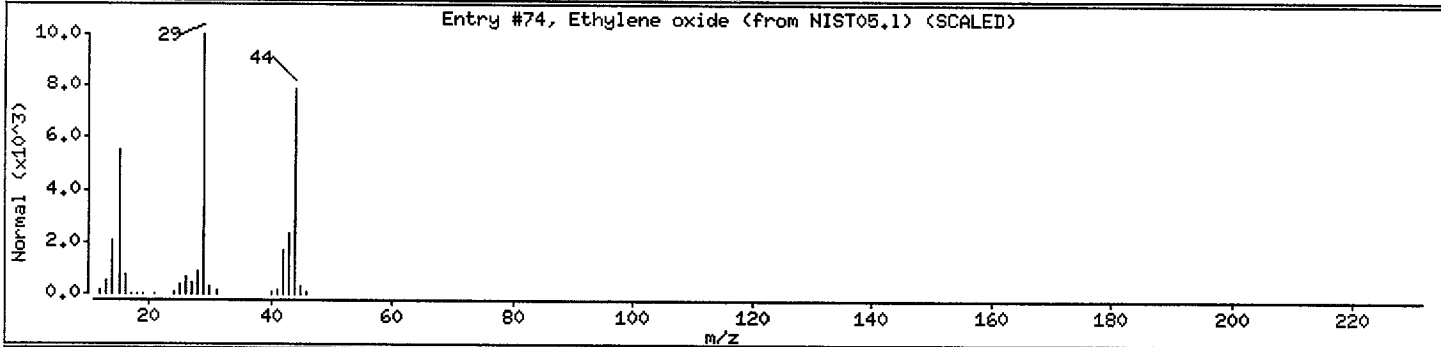
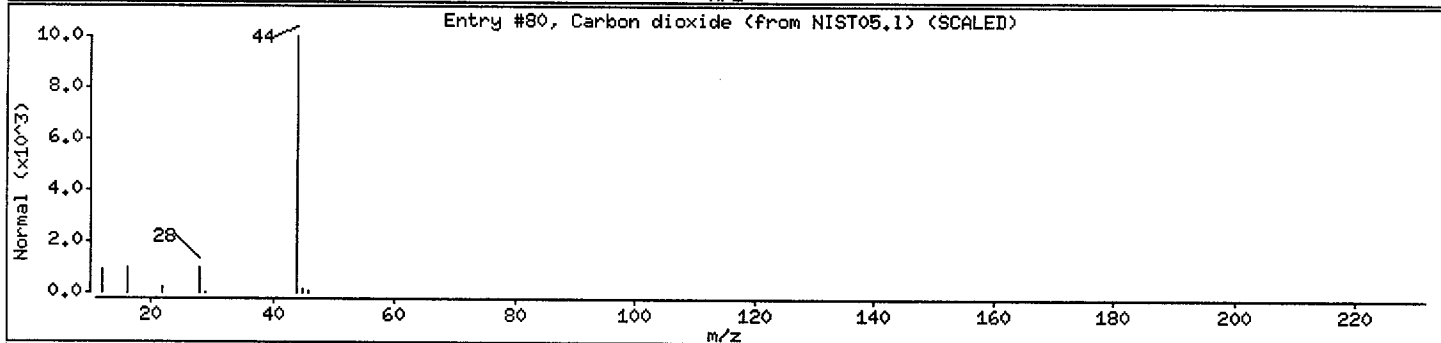
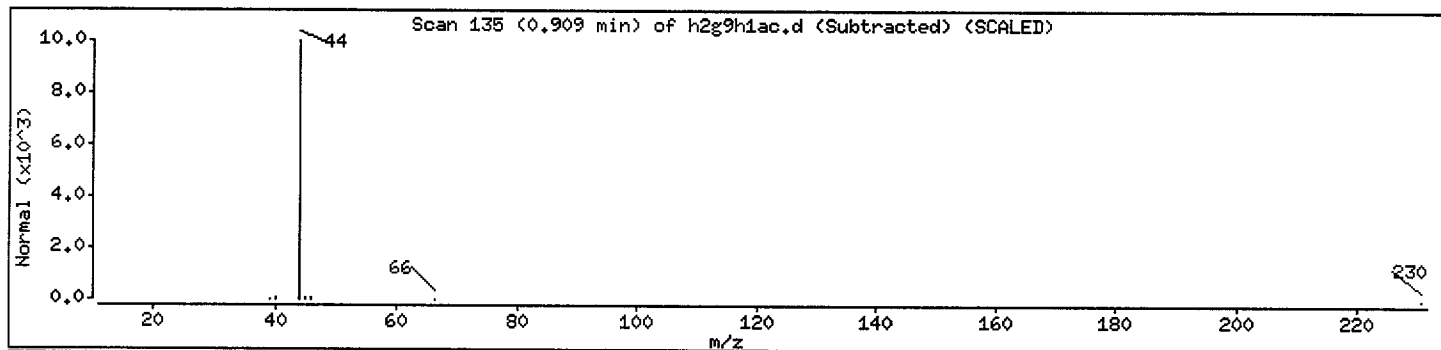
Purge Volume: 25.0

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 PB

GC/MS Volatiles

Lot-Sample #: H6D030169-010

Work Order #: H2G9J1AA

Matrix: AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

✓
4/14/06

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	(ug/L)	(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		
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	0.021372		
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~~		

7/10
4-14-06

- See reprint for (m)

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	Calibration Date: 07-APR-2006
Lab File ID: h2g9j1aa.d	Calibration Time: 07:35
Lab Smp Id: H2G9J1AA	Client Smp ID: G-2917-R1-VOST TENA
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m	
Misc Info: Z040706,8260B_LM,focus.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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 Client SDG: H6D030169
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: H2G9J1AA Client Smp ID: G-2917-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	0.26617	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

Instrument: mz.i

Sample Info: H2G9J1AA,1,0,,

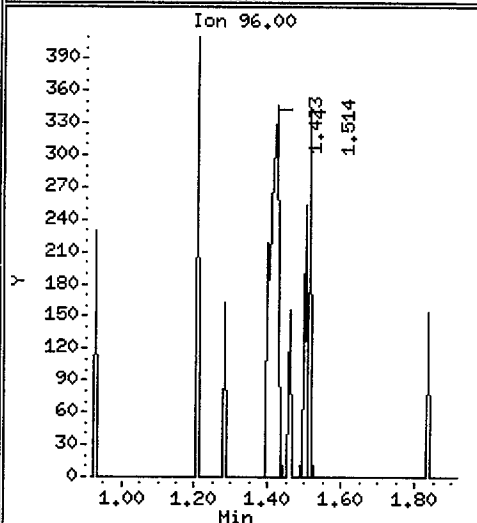
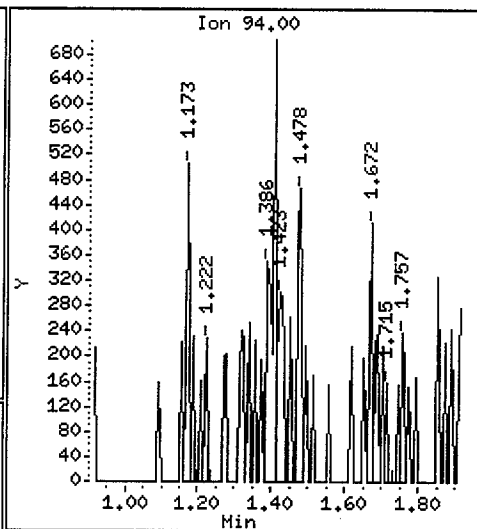
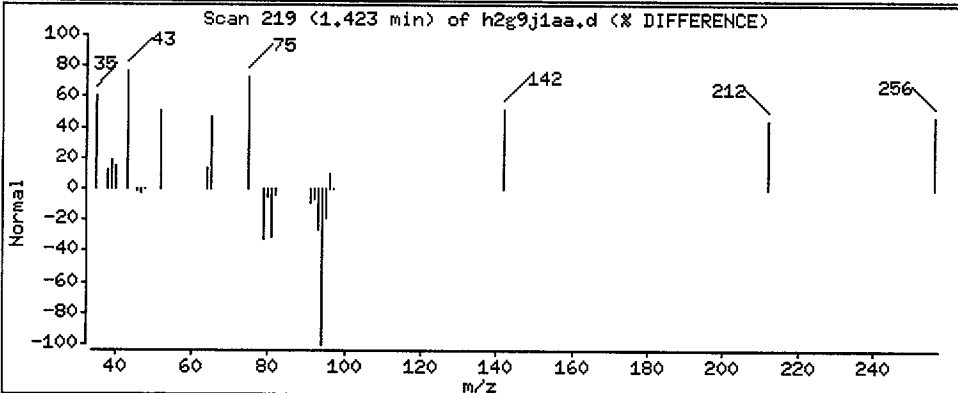
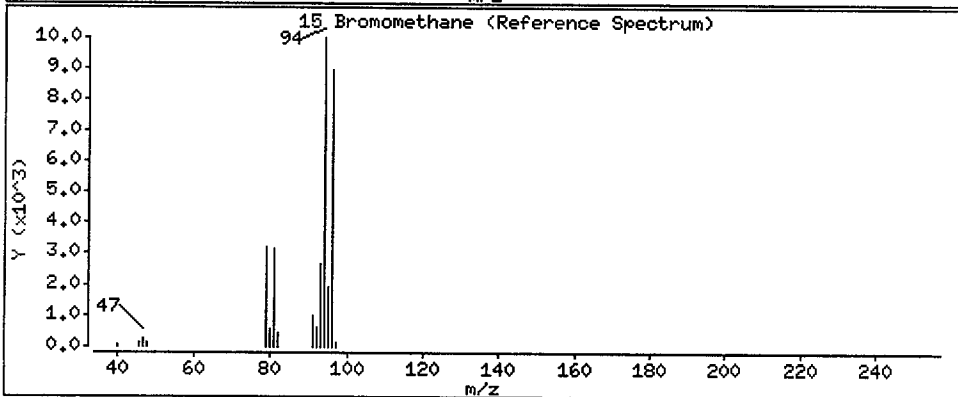
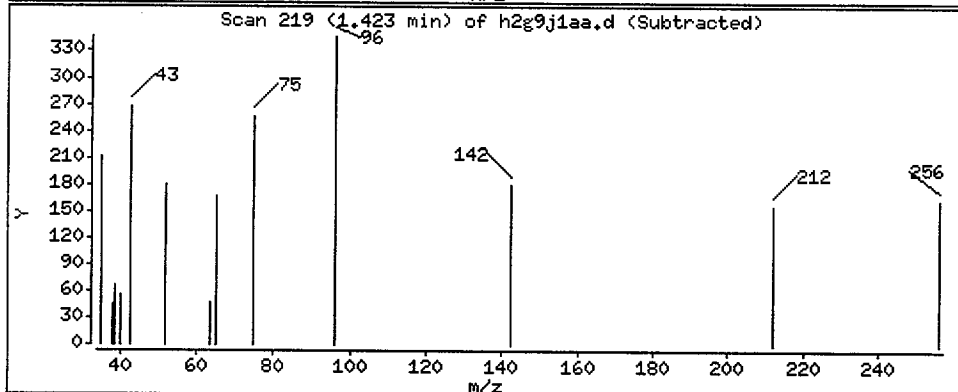
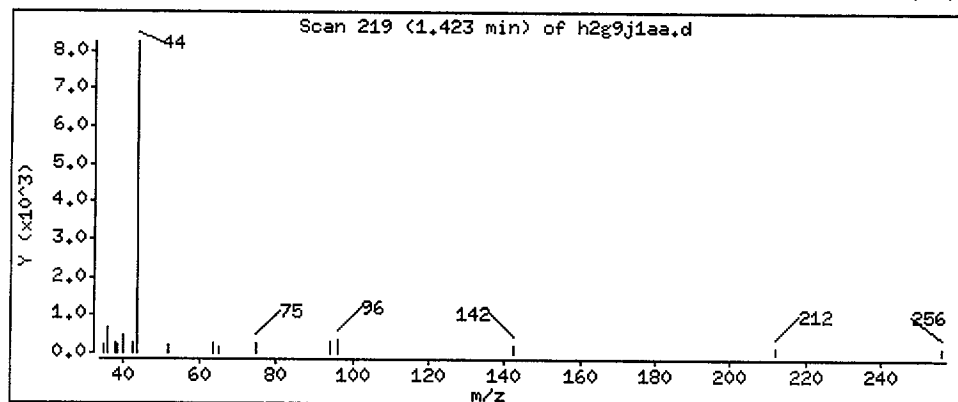
Operator: 22980

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,,

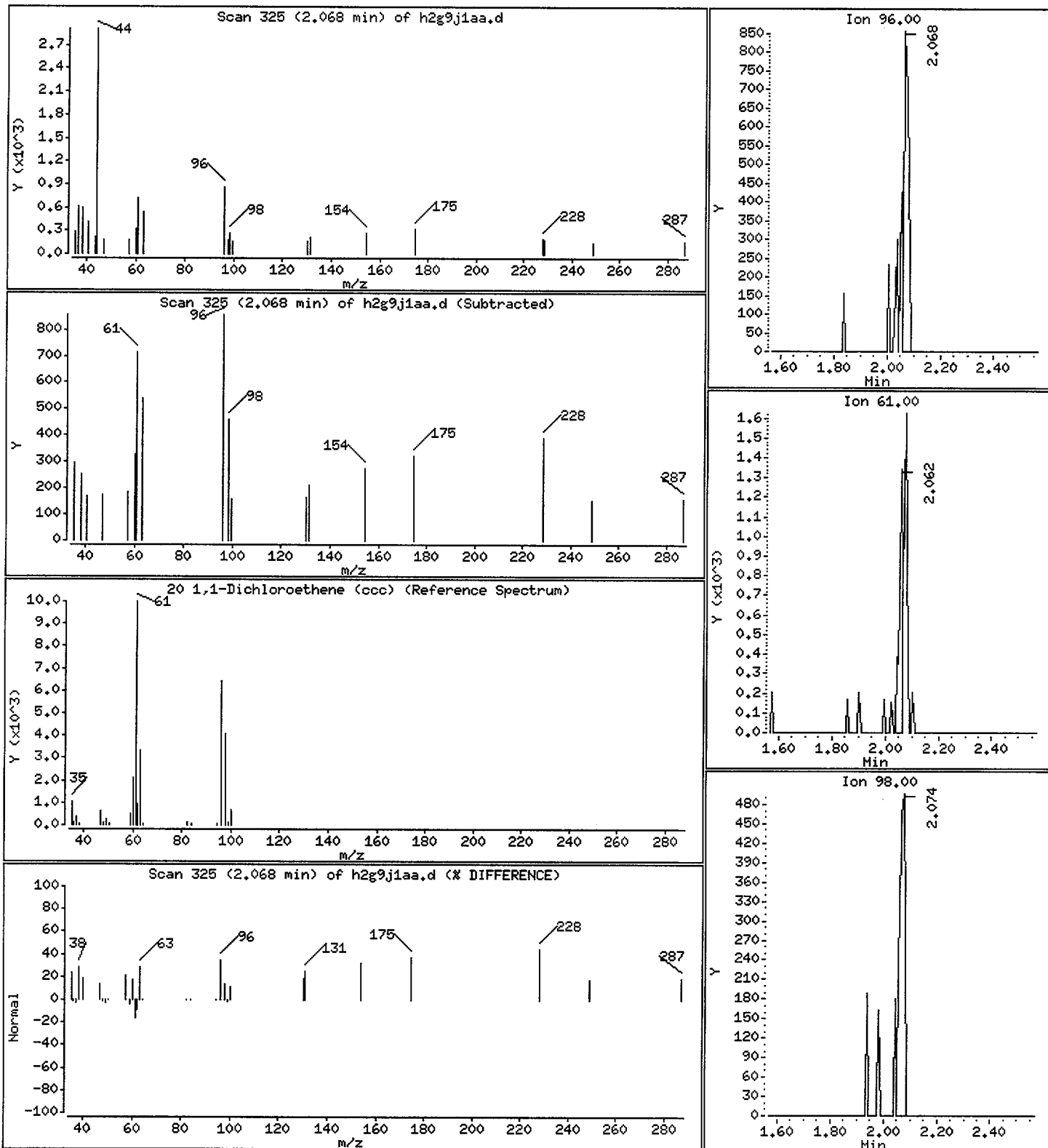
Operator: 22980

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,,

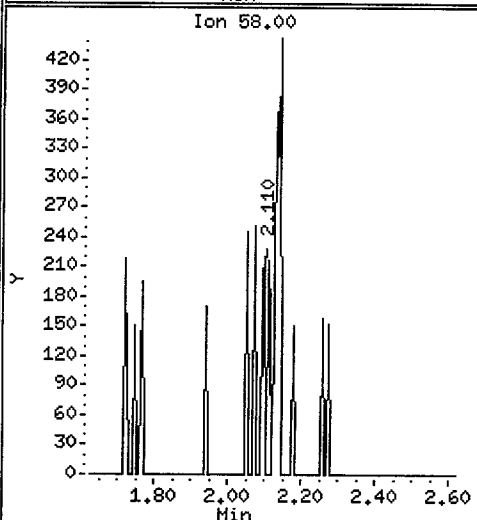
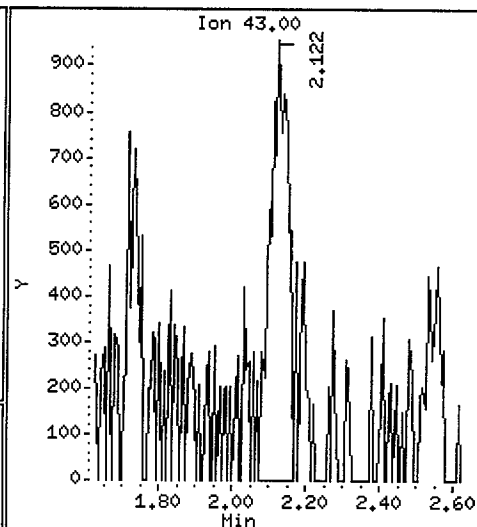
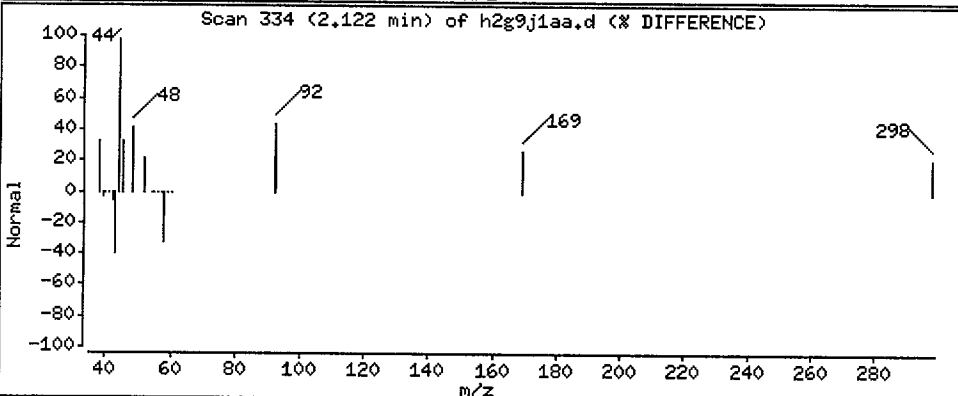
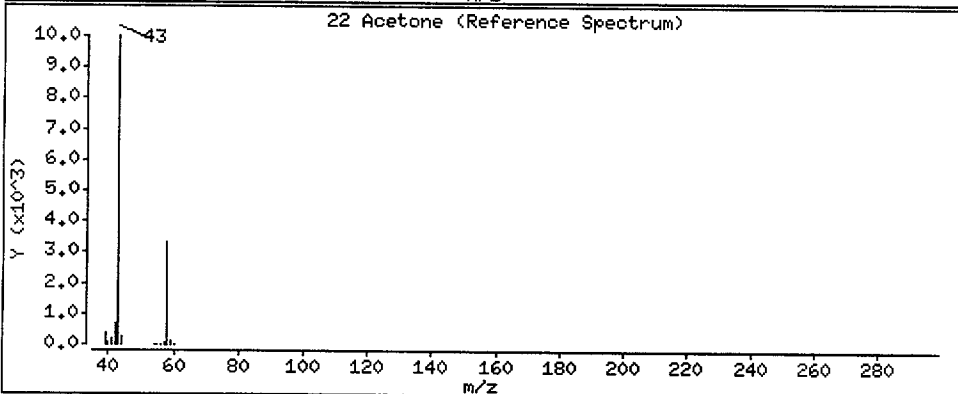
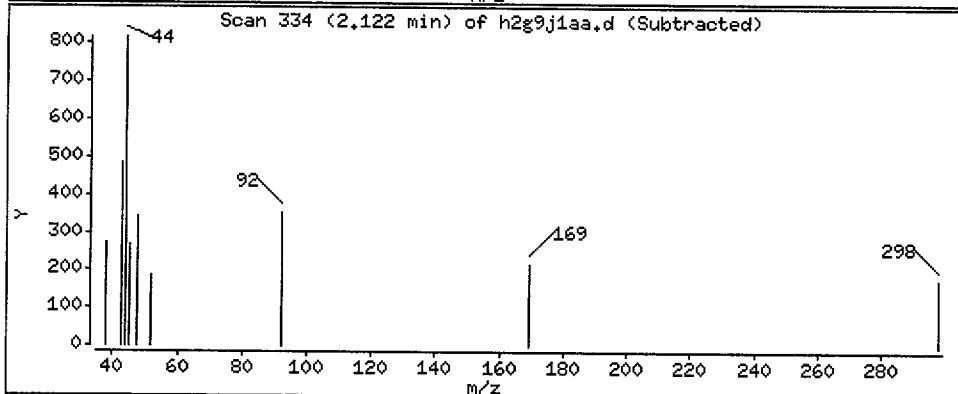
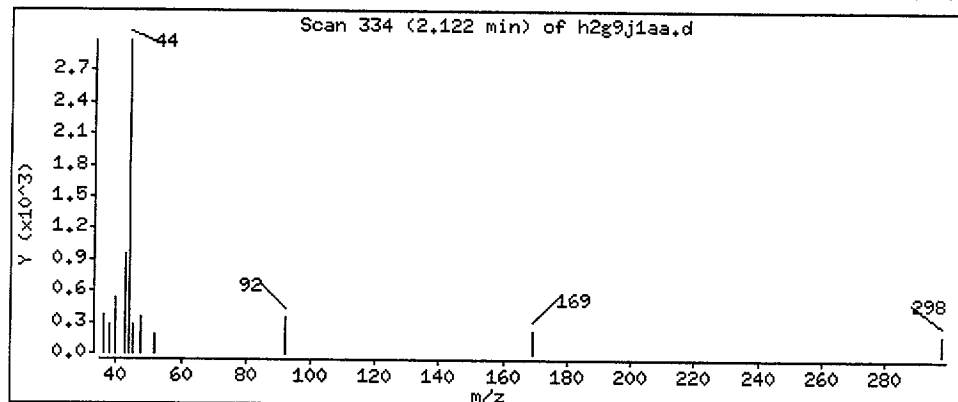
Column phase: J+W 624

Operator: 22980

Column diameter: 0.18

22 Acetone

Concentration: 0.098555 ug

2004/14/06
①

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,,

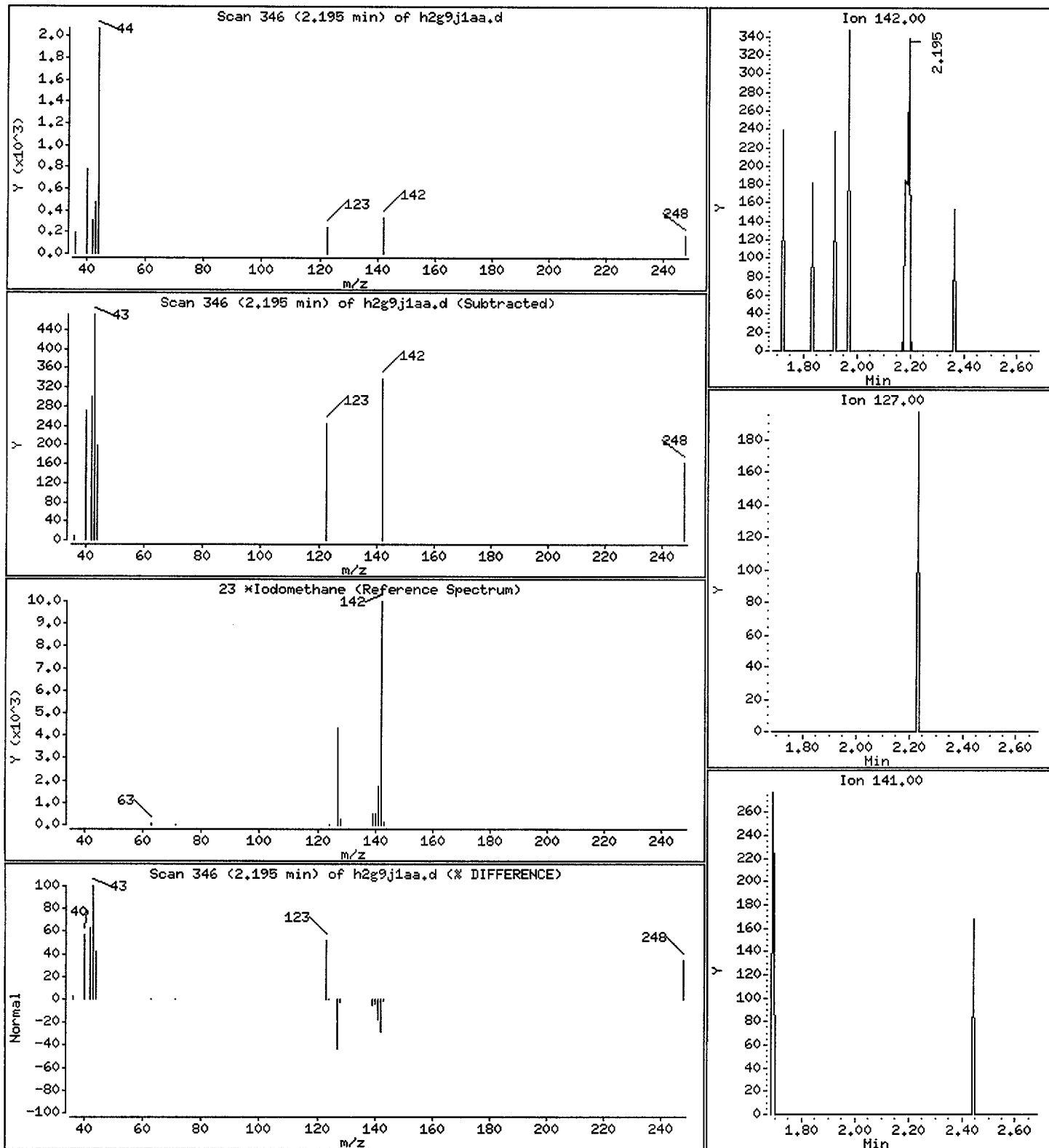
Operator: 22980

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,,

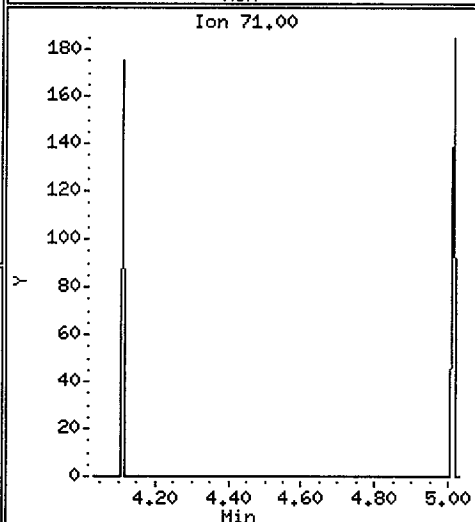
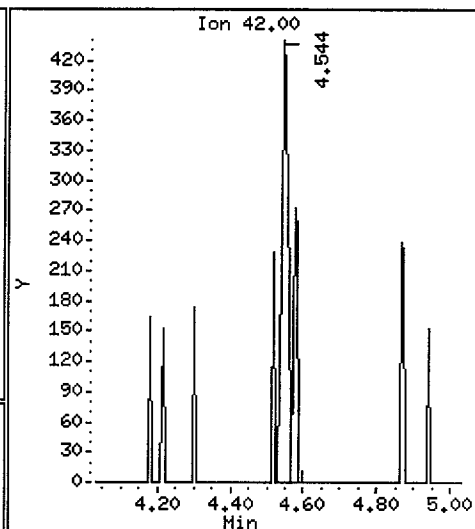
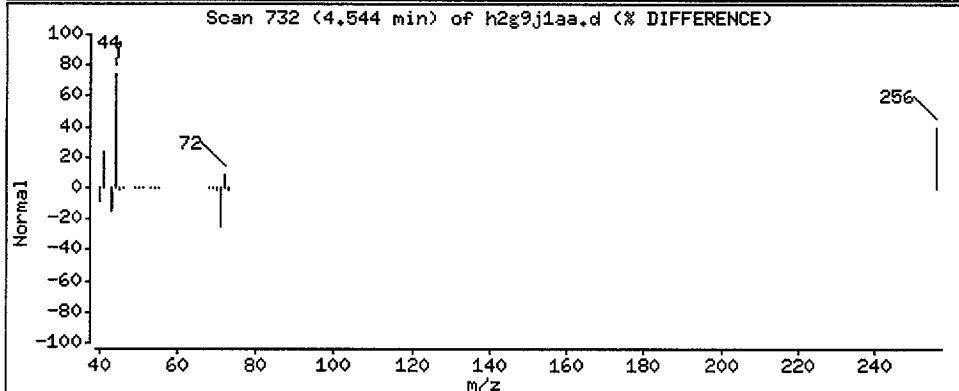
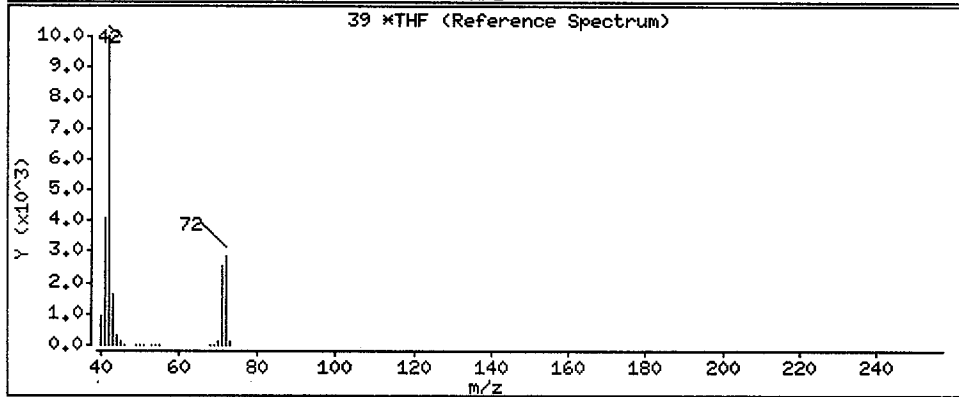
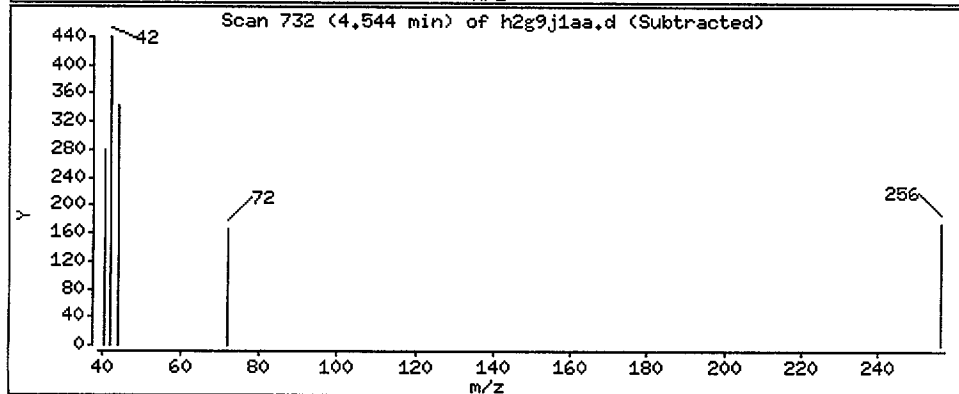
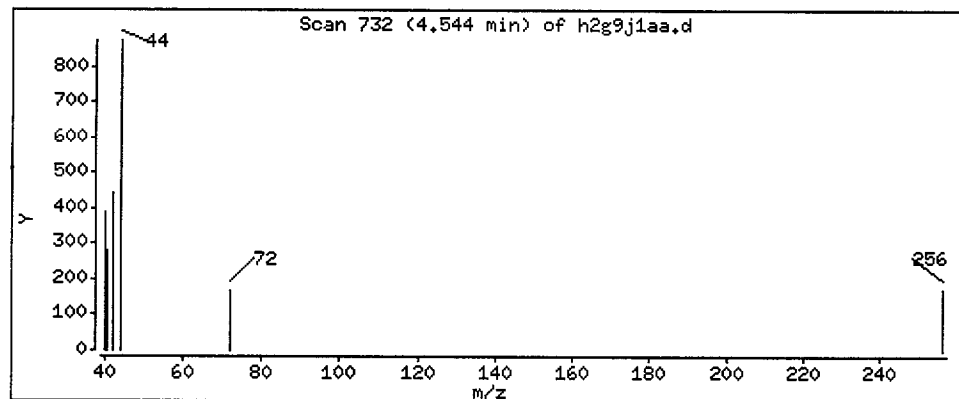
Operator: 22980

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,,

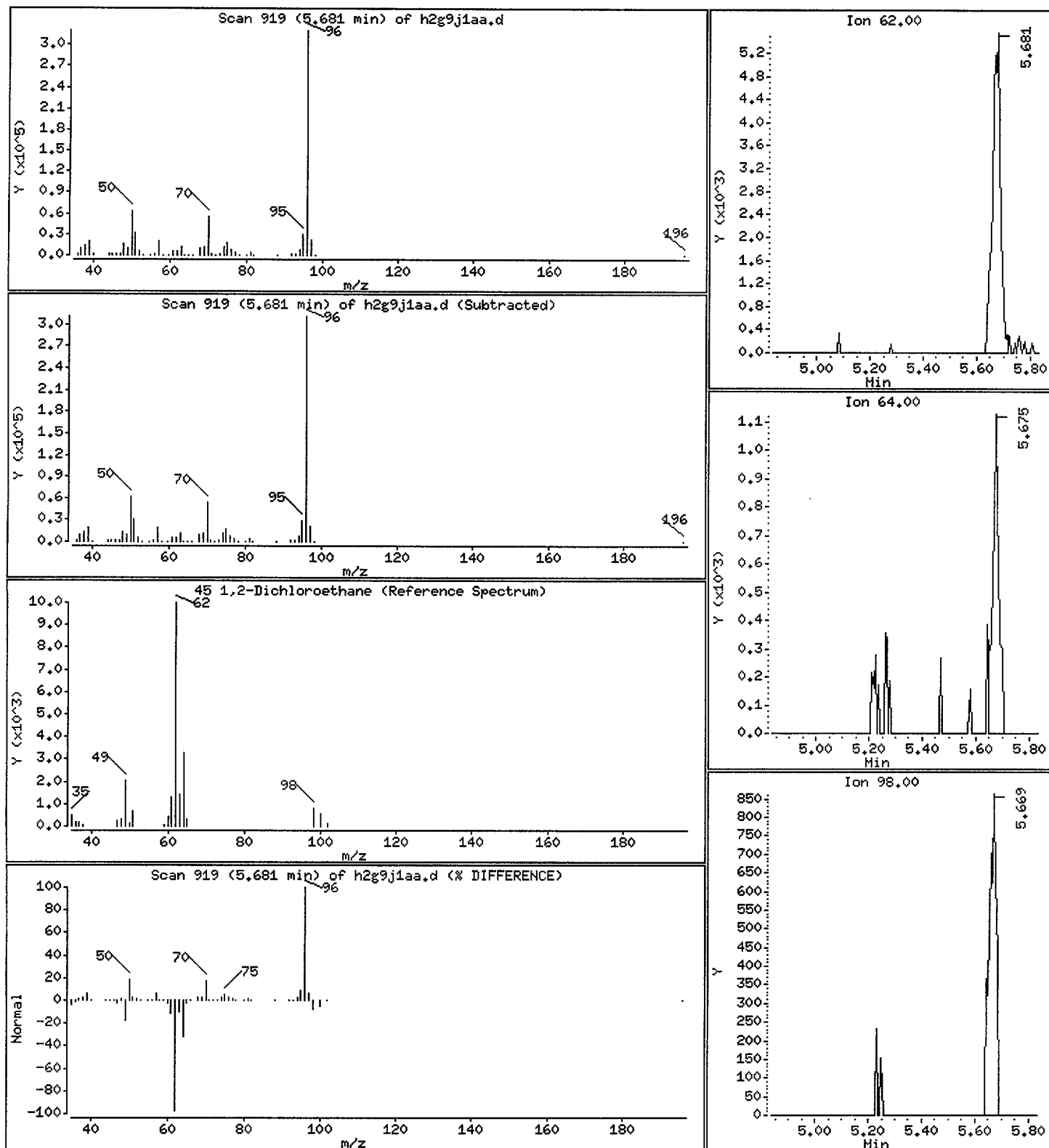
Operator: 22980

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,,

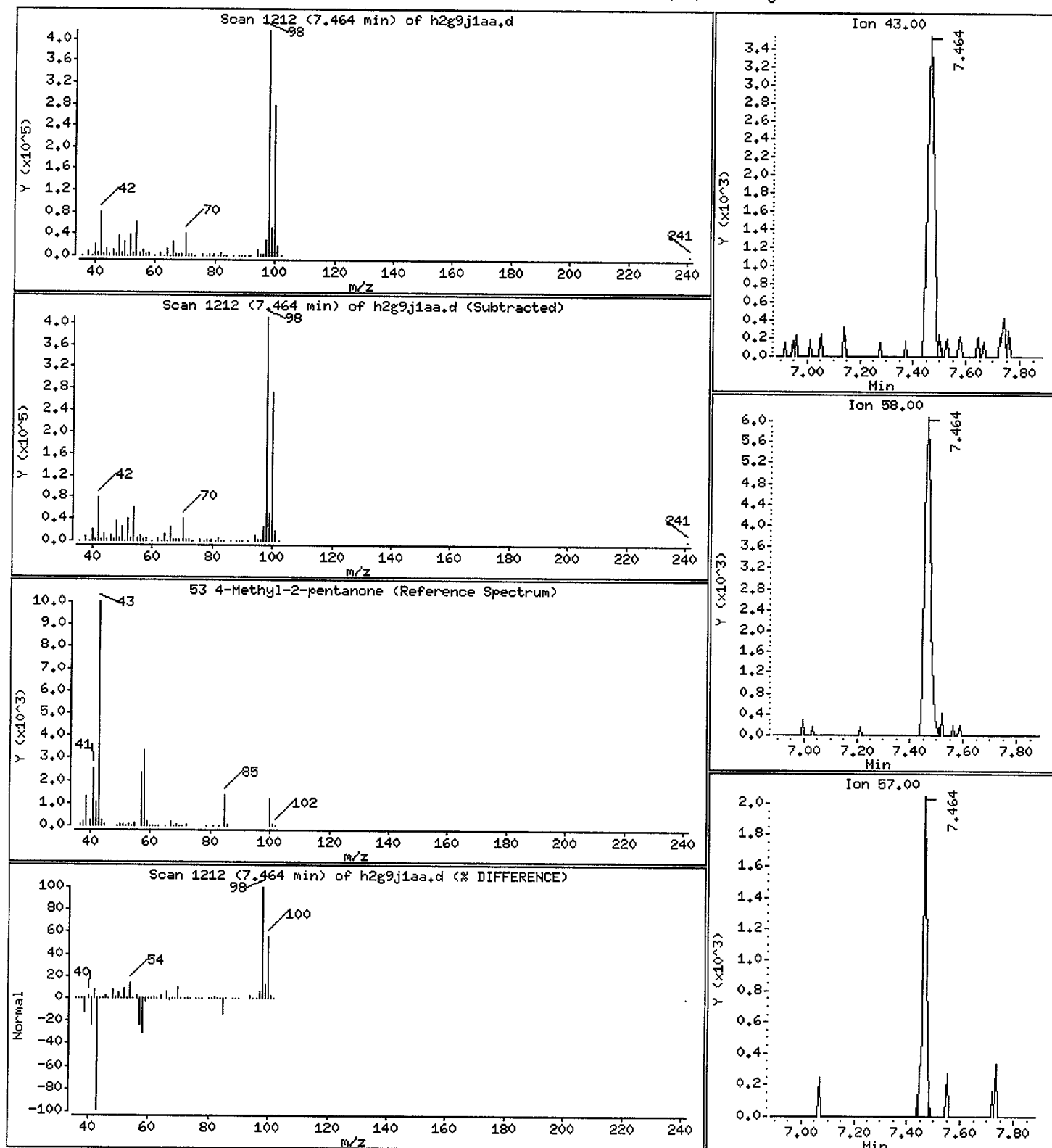
Operator: 22980

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,,

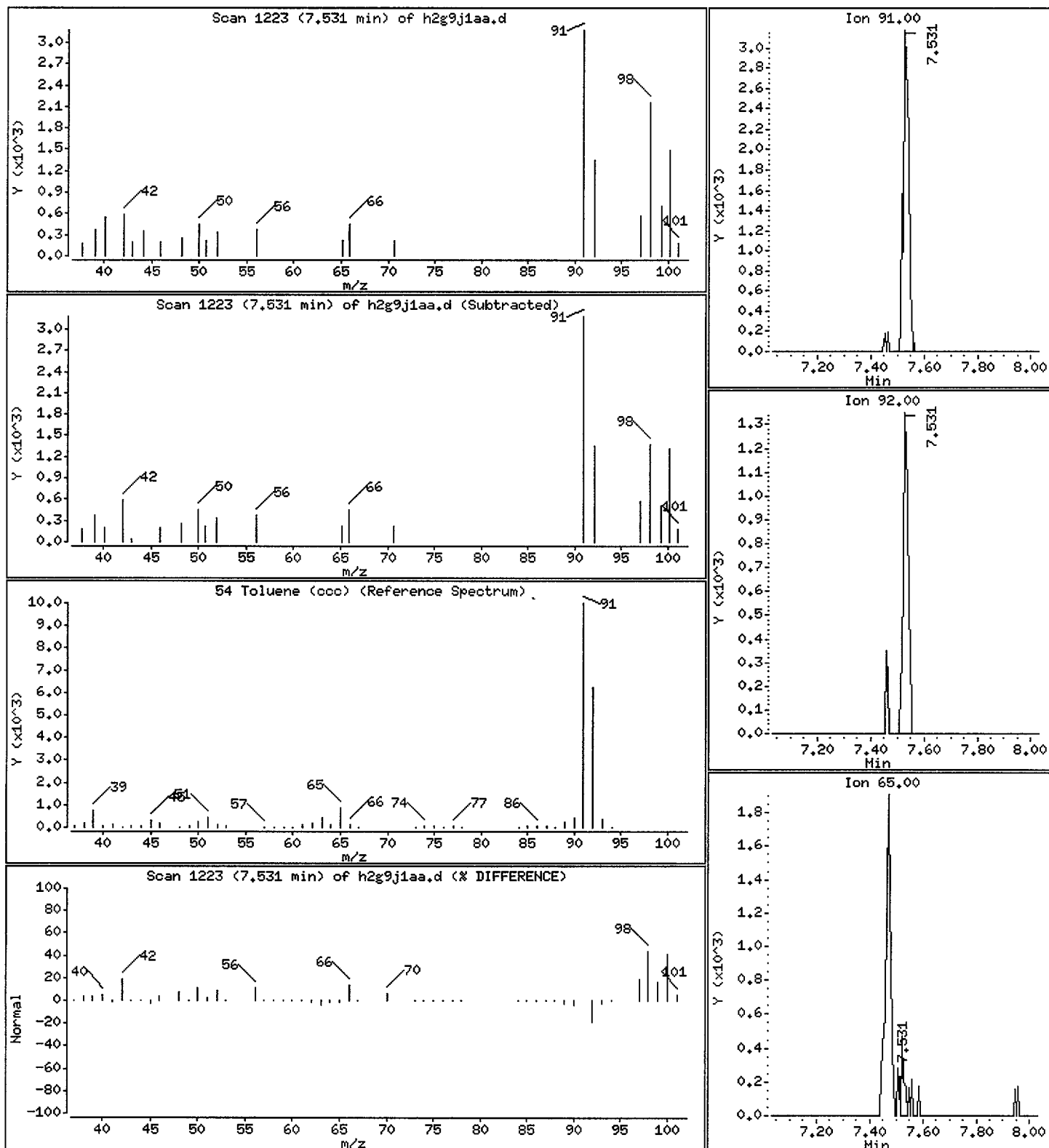
Operator: 22980

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,,

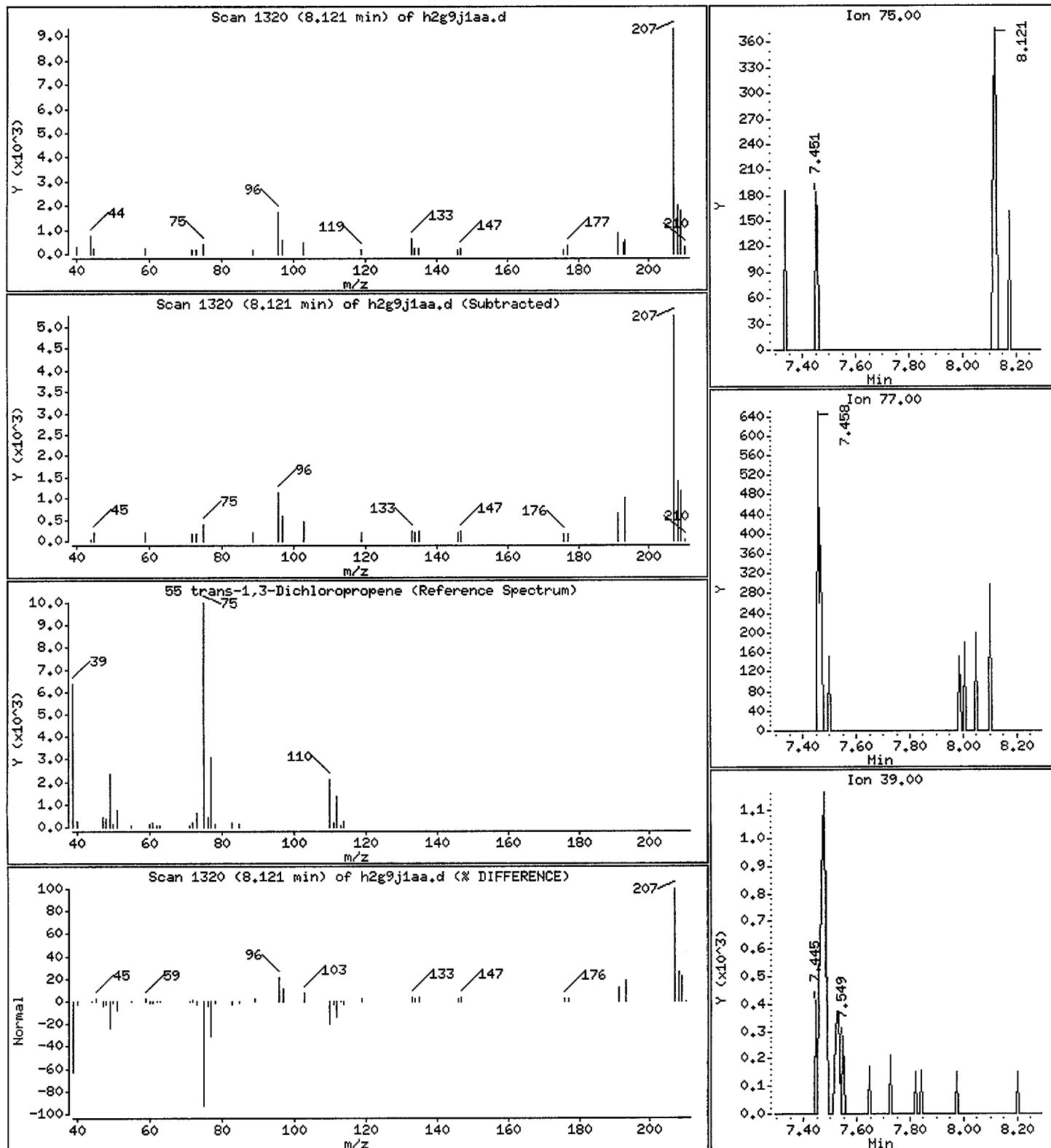
Operator: 22980

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

RT	HEIGHT	CONCENTRATIONS			QUANT			CPND #
		ON-COL (ug/L)	FINAL (ug)	QUAL	LIBRARY	LIB ENTRY		
0.906	1133324	13.1262762	0.32816	5	NIST05.1	80	1	

Carbon dioxide *CO2* CAS #: 124-38-9
7/24/06

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

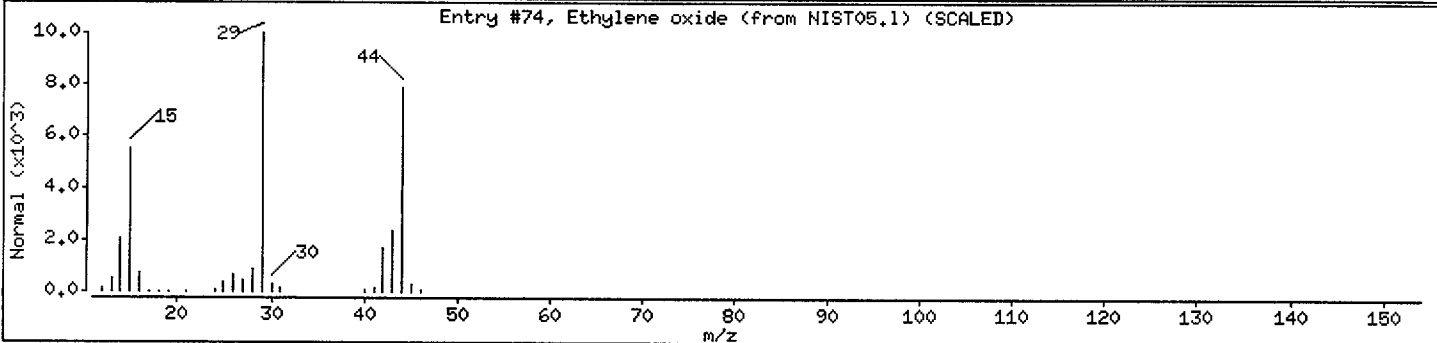
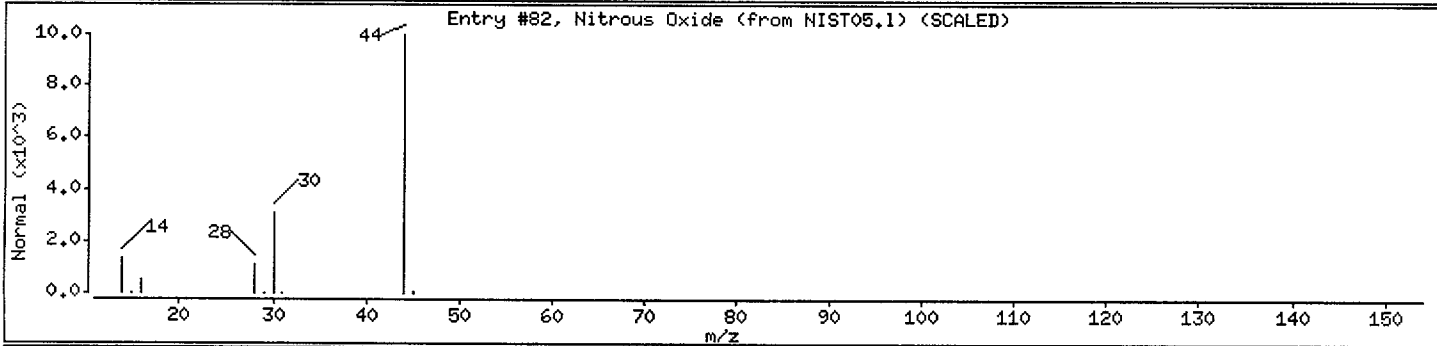
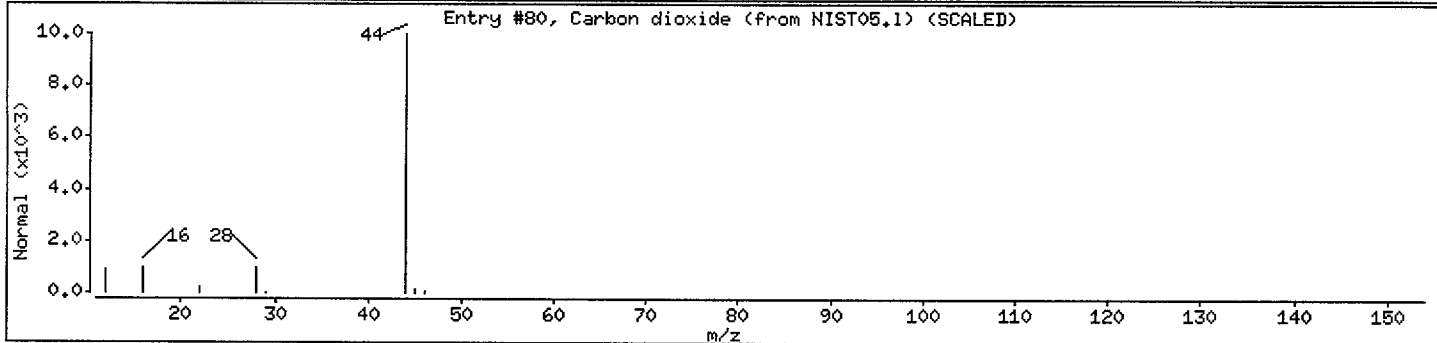
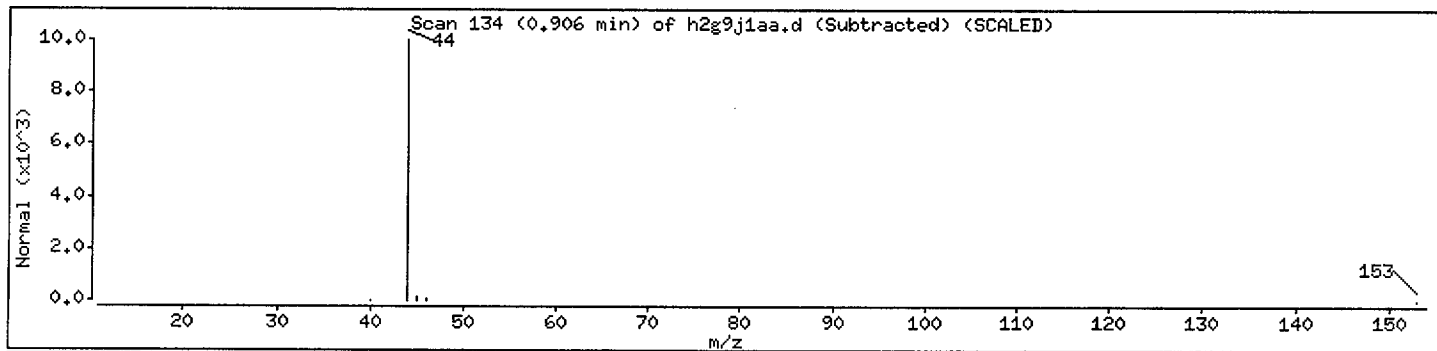
Sample Info: H2G9J1AA,1,0,,

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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	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
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	0.028950

- see report for (m)

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 wilestd 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	Calibration Date: 07-APR-2006
Lab File ID: h2g9l1aa.d	Calibration Time: 07:35
Lab Smp Id: H2G9L1AA	Client Smp ID: G-2918-R1-VOST TENA
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mz.i/Z040706.b/8260B_LM.m	
Misc Info: Z040706,8260B_LM,focus.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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

Sample Matrix: GAS

Lab Smp Id: H2G9L1AA

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-2918-R1-VOST TENA

Operator: 22980

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND		CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$	4 Dibromofluorometha	0.25000	0.29460	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: C-2918-R1-VOST TENA

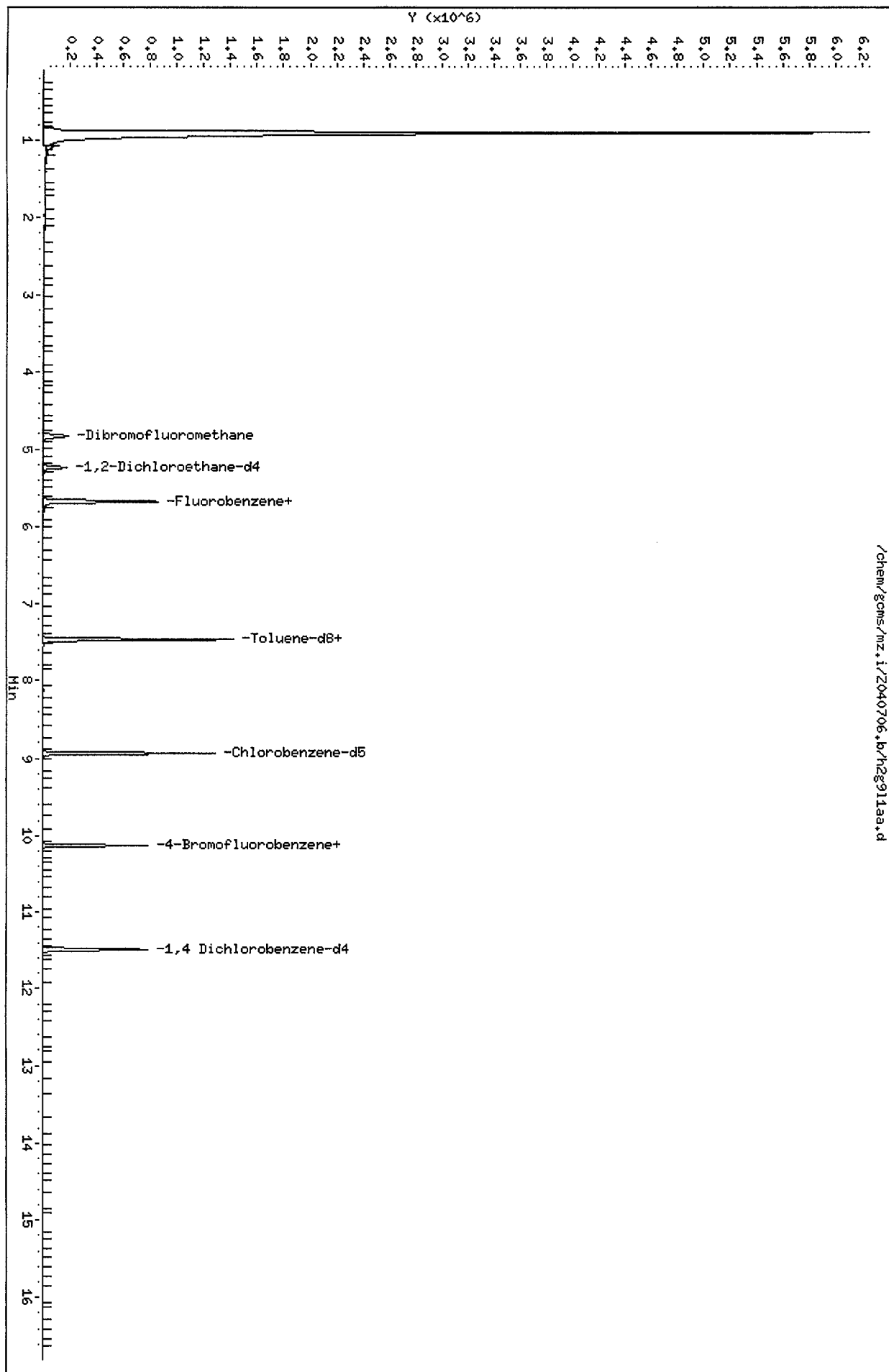
Sample Info: H2C9L1AA-1.0,,

Column phase: J+M 624

Instrument: mz.i

Operator: 22980

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,,

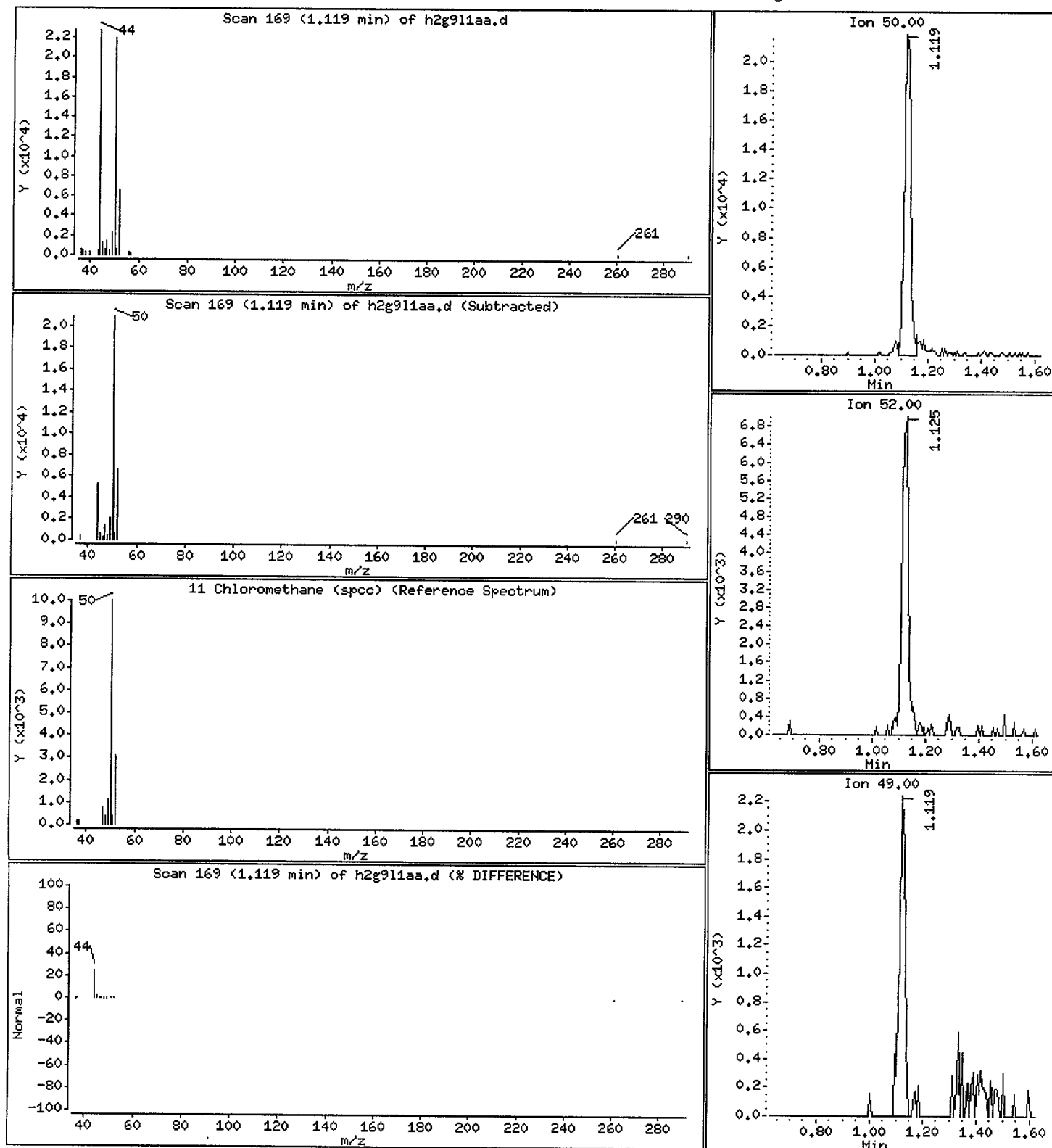
Operator: 22980

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,,

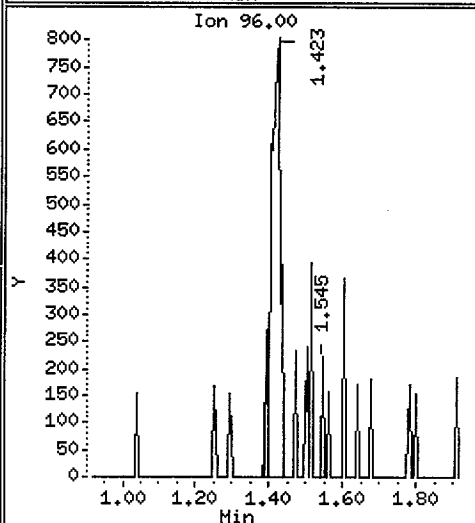
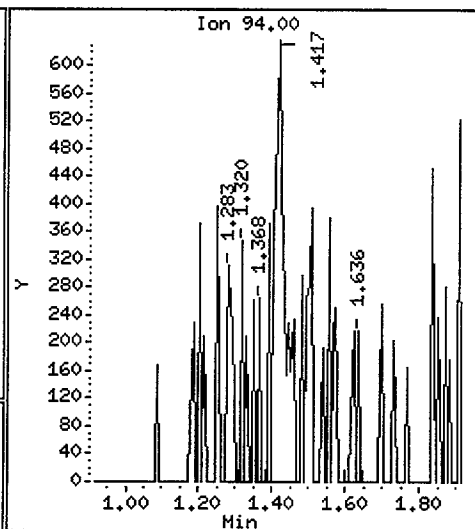
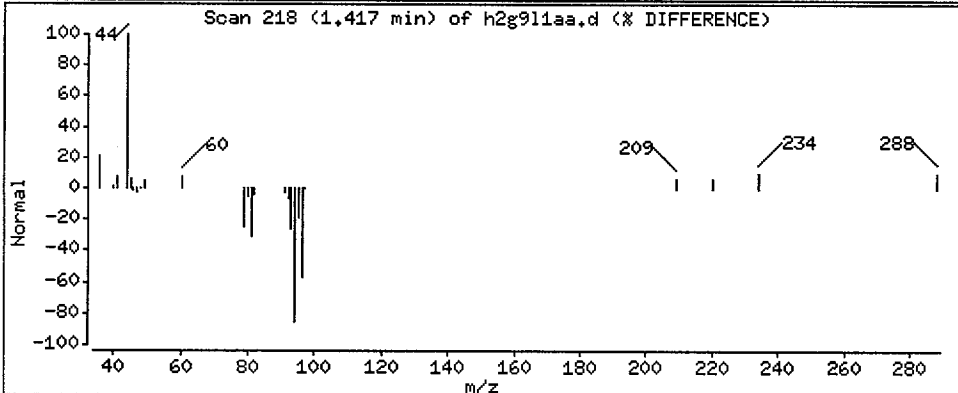
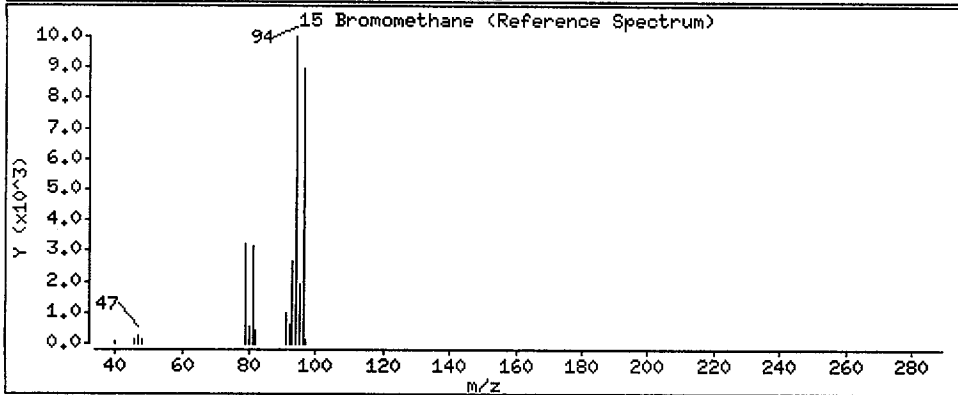
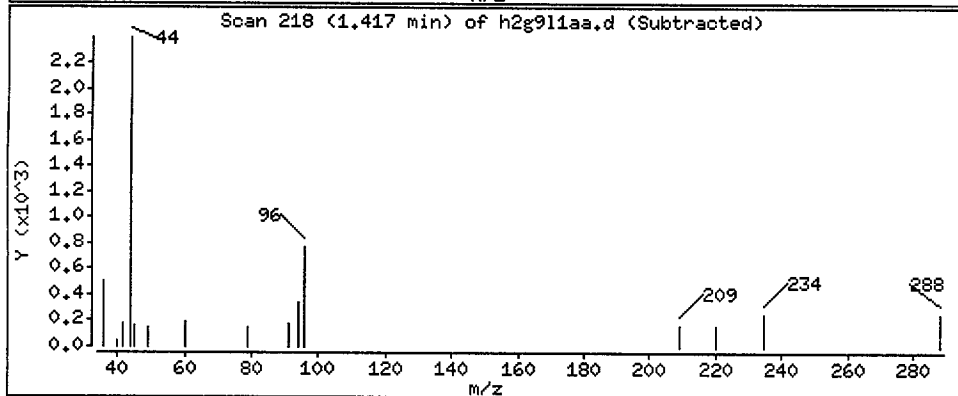
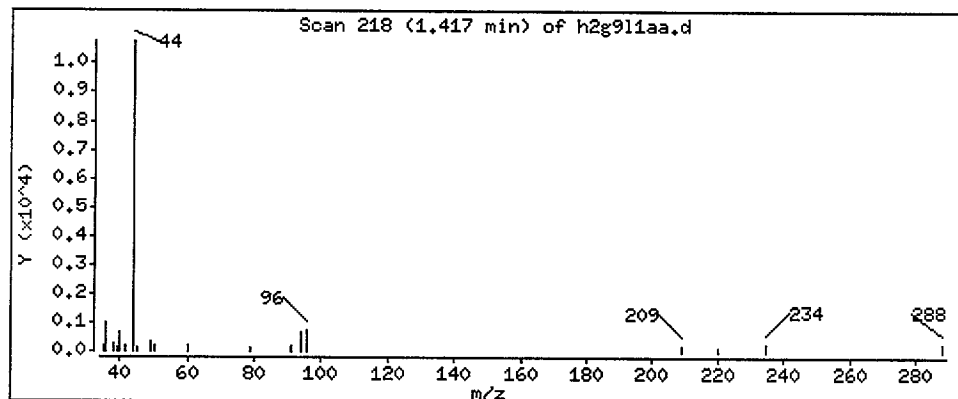
Operator: 22980

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,,

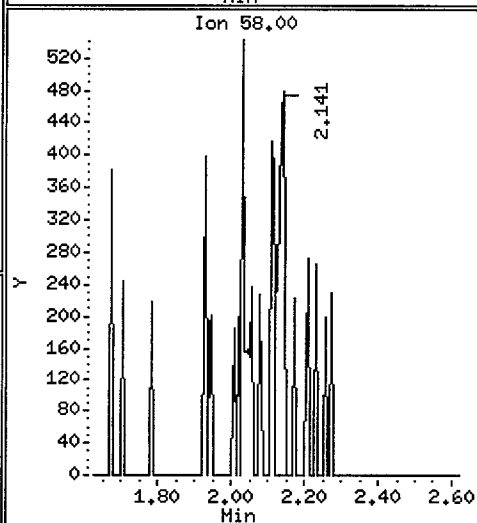
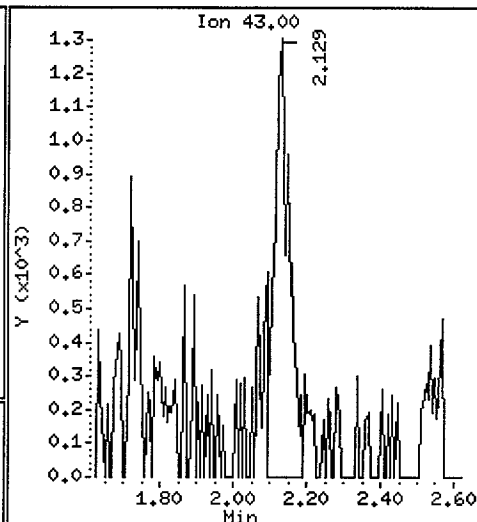
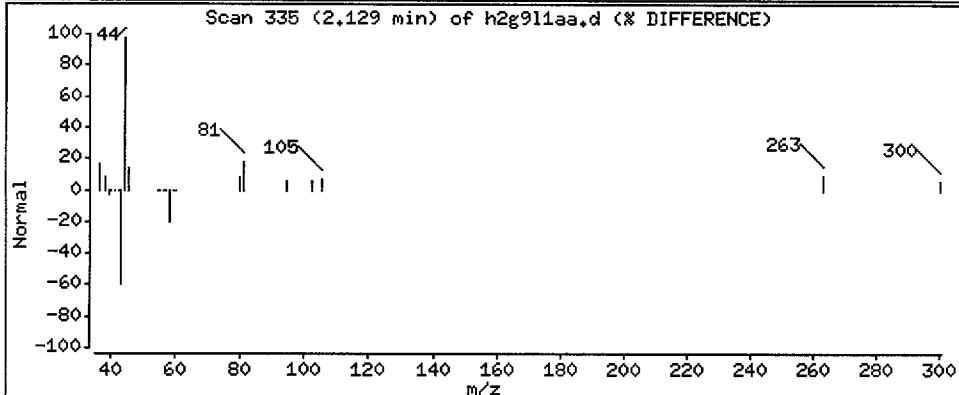
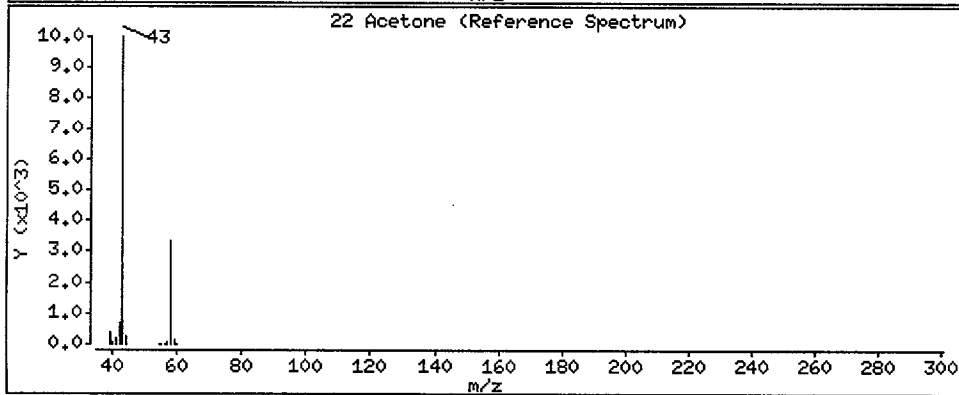
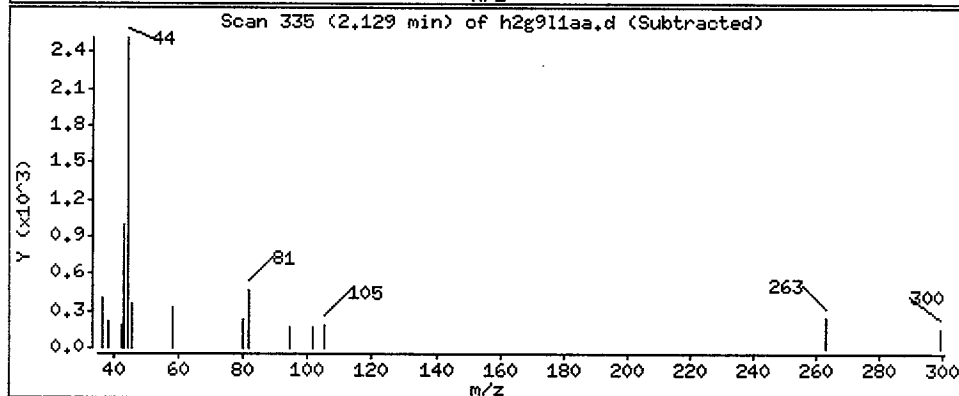
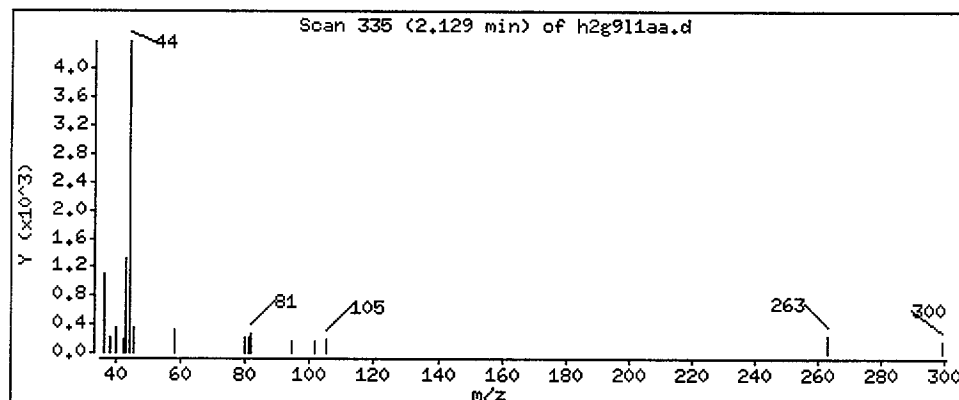
Column phase: J+W 624

Operator: 22980

Column diameter: 0.18

22 Acetone

Concentration: 0.10147 ug

2004.14.08
(1)

Data File: /chem/gcms/mz.i/2040706.b/h2g911aa.d

Date : 07-APR-2006 13:57

Client ID: G-2918-R1-VOST TENA

Instrument: mz.i

Sample Info: H2G9L1AA,1,0,,

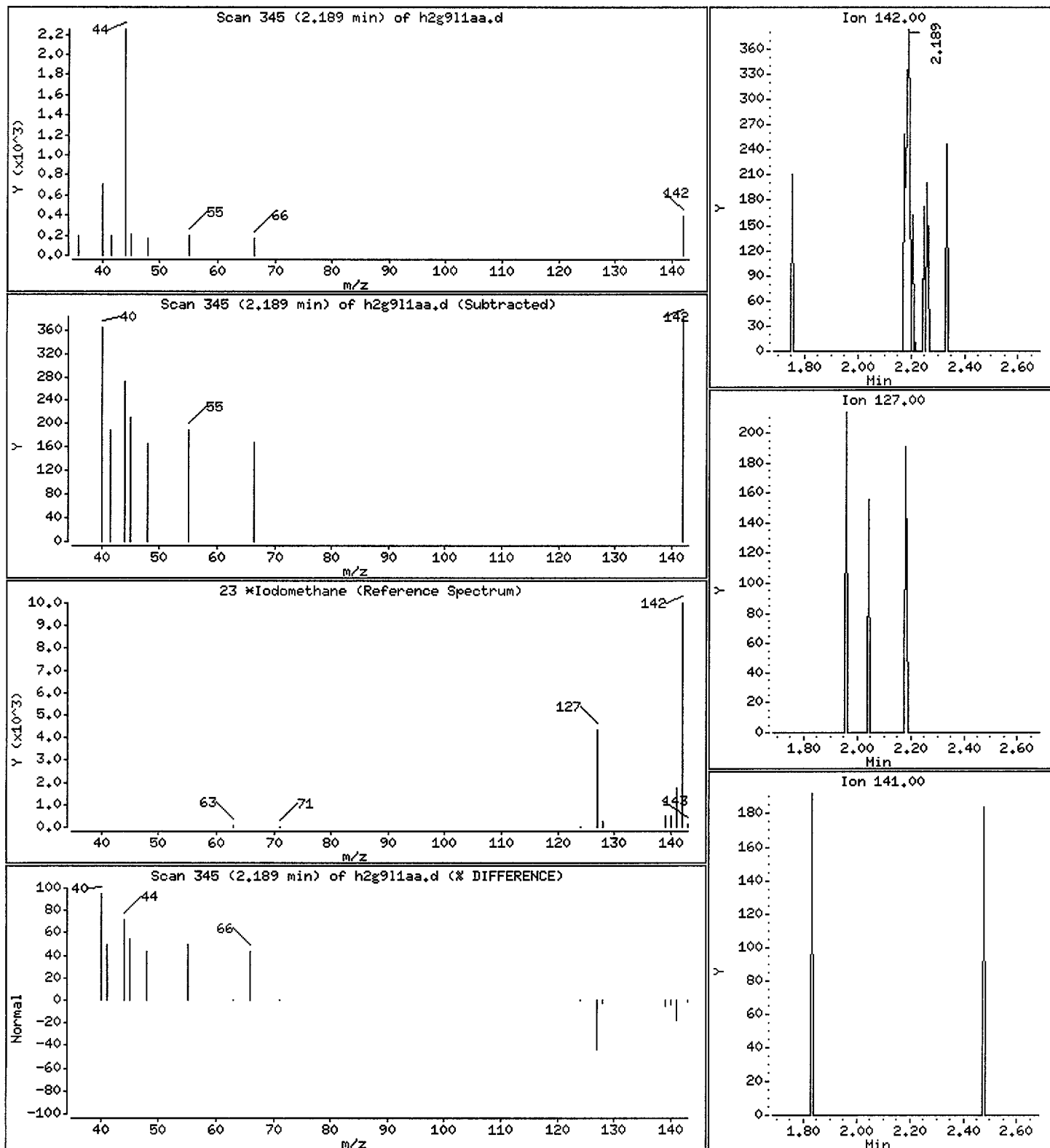
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

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,,

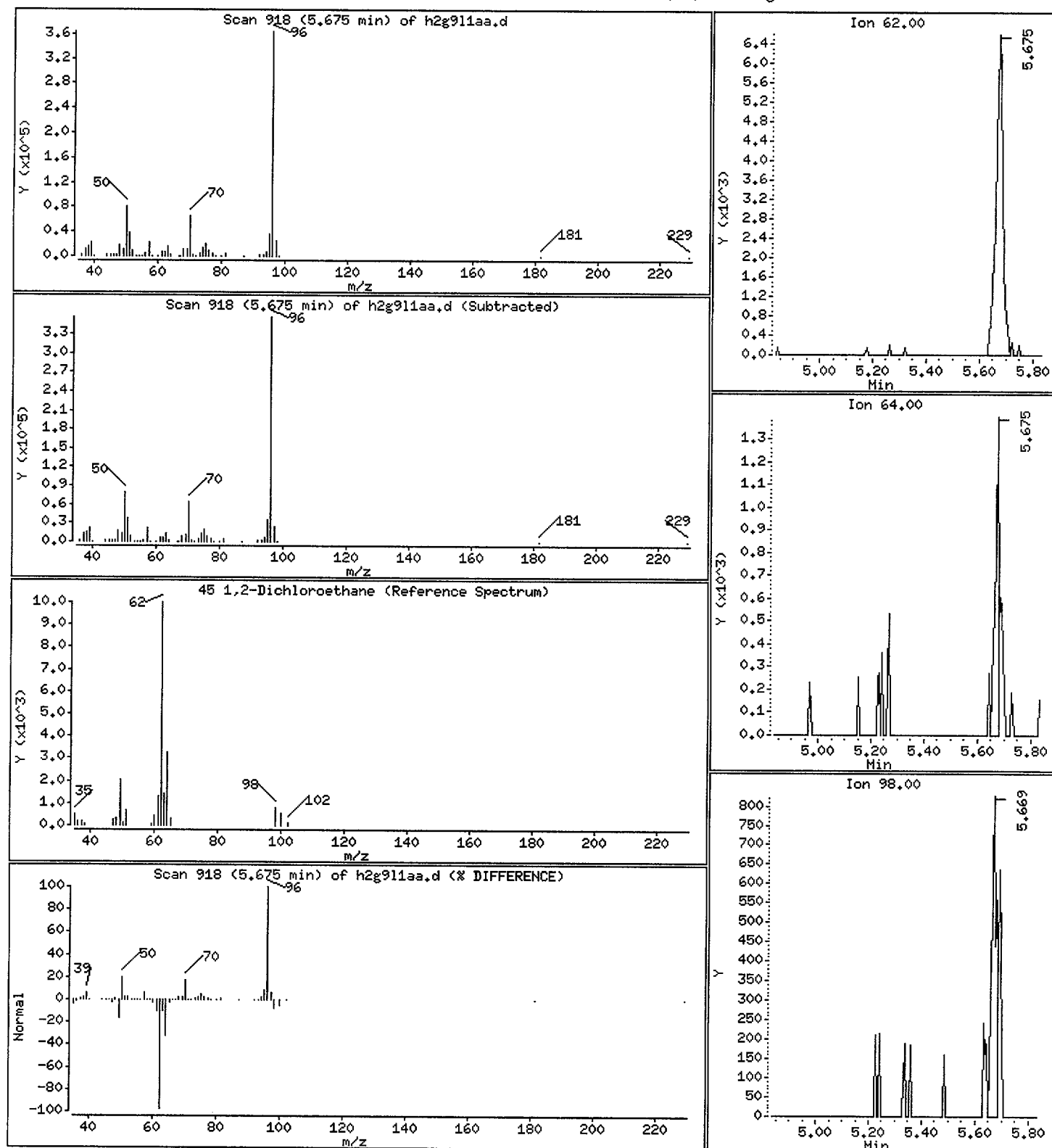
Operator: 22980

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,,

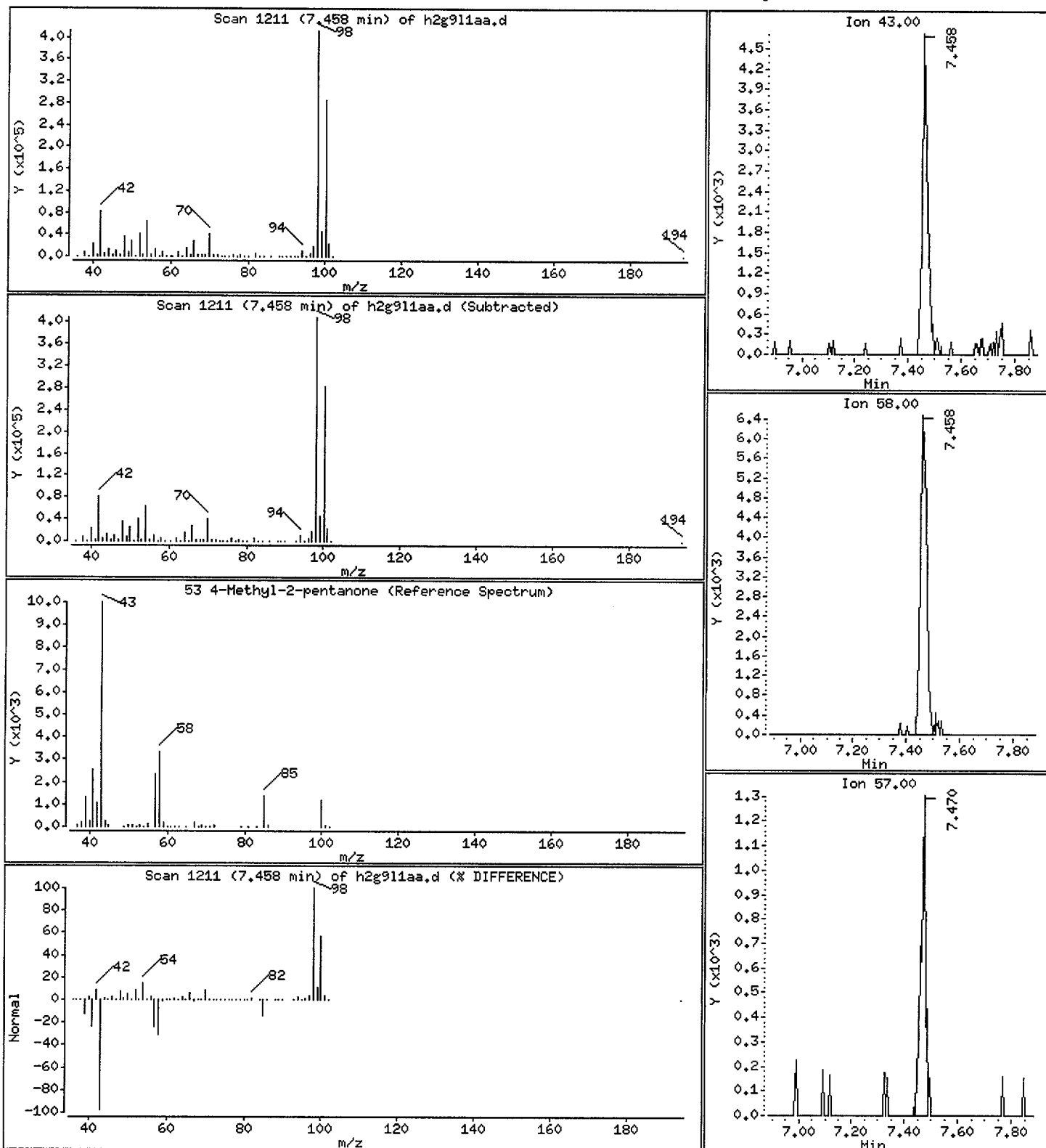
Operator: 22980

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,,

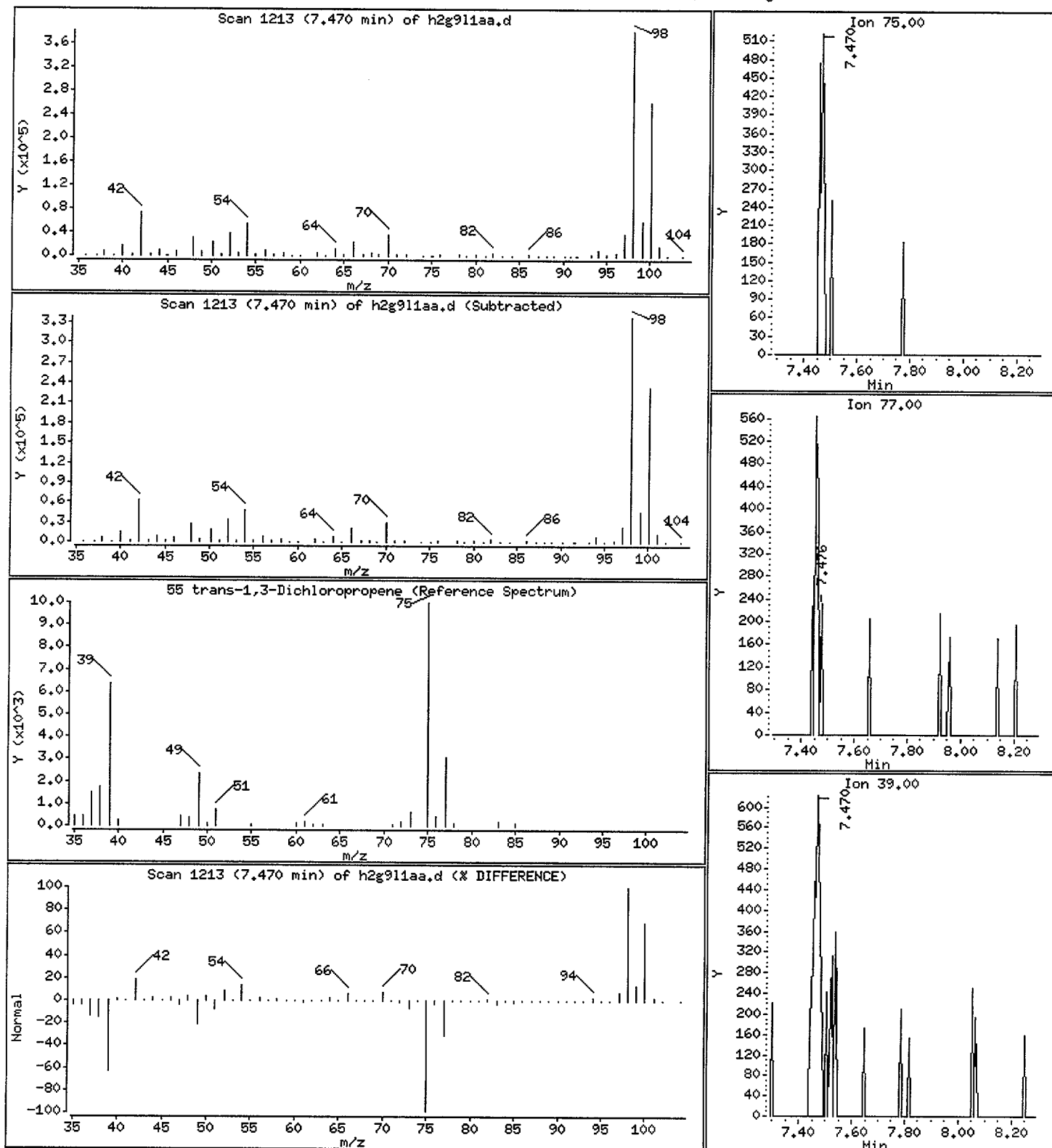
Operator: 22980

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,,

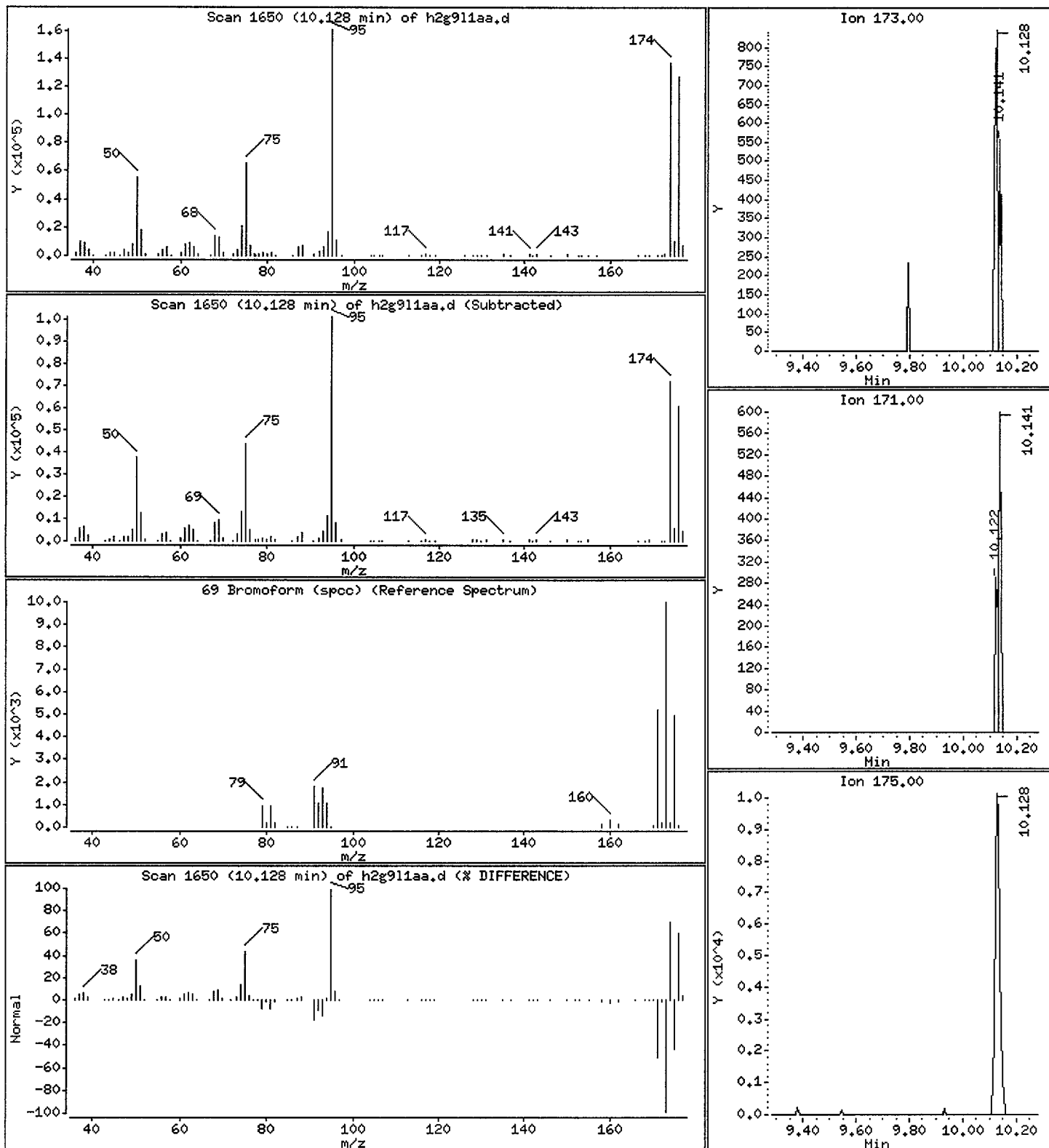
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

69 Bromoform (spoc)

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	0.906	6253563	72.5696126	1.8142	5	NIST05.1	80
							1

CAS #: 124-38-9

704-14-8

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

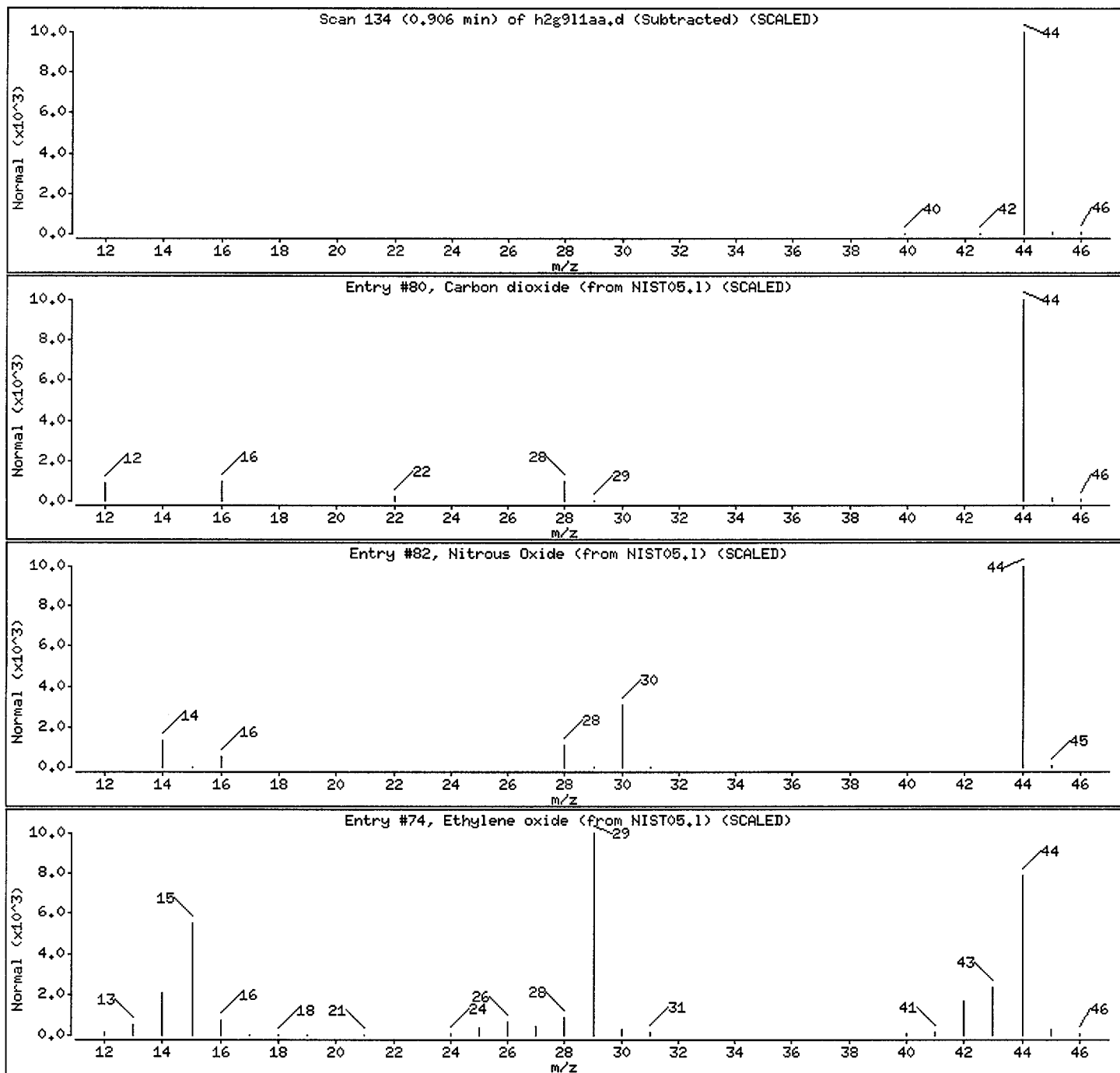
Sample Info: H2G9L1AA,1,0,,

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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

						CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(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

4/19/06

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Data File: /chem/gcms/mx.i/X040706.b/h2g9w1aa.d
Report Date: 07-Apr-2006 13:41

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	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

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H

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	Calibration Date: 07-APR-2006
Lab File ID: h2g9w1aa.d	Calibration Time: 09:16
Lab Smp Id: H2G9W1AA	Client Smp ID: G-3008-R2-VOST PAIR
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m	
Misc Info: X040706,8260B_LM,focus.sub	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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		SAMPLE	%DIFF
		LOWER	UPPER		
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

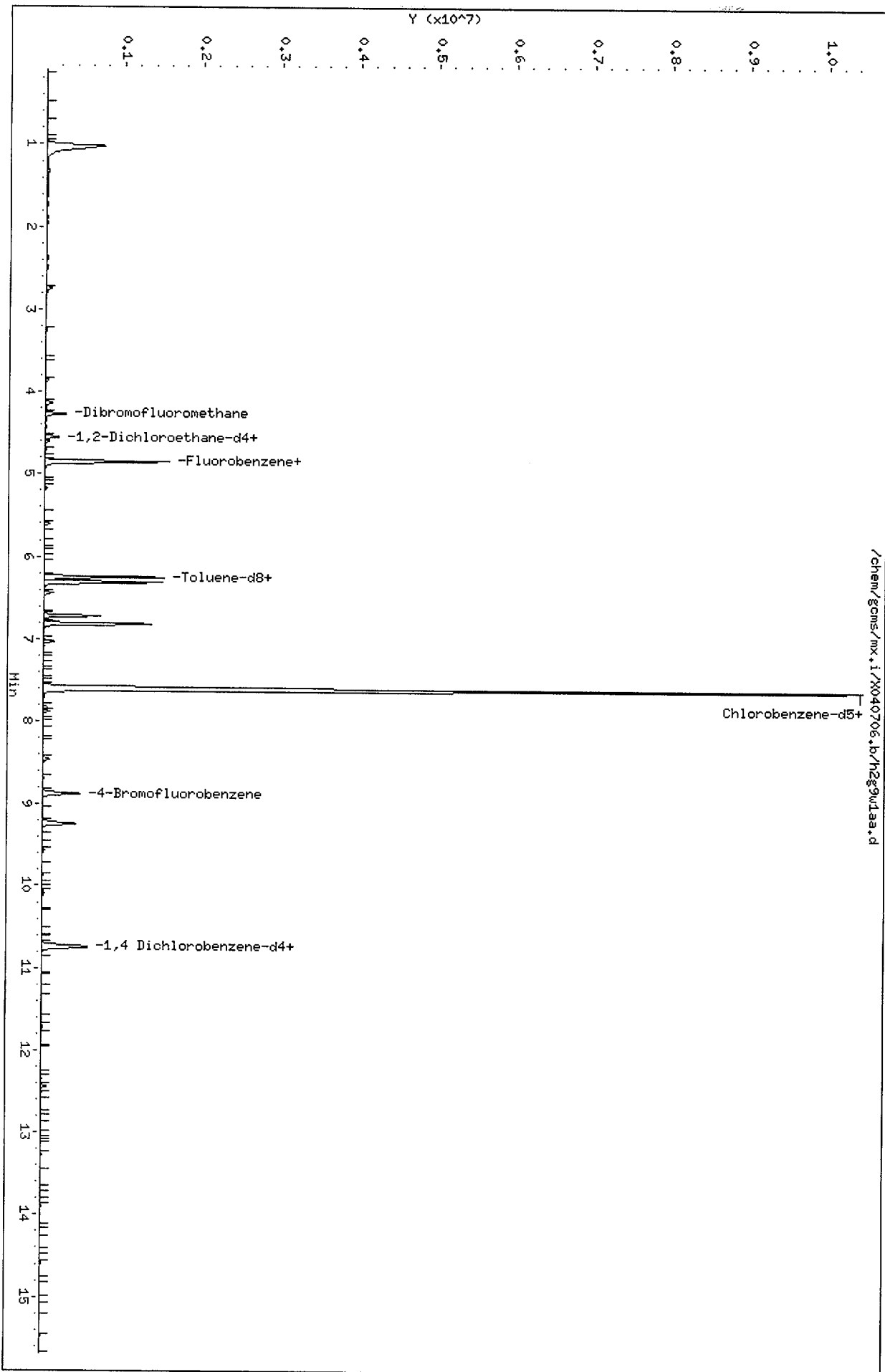
Client Name: STL Knoxville - ACS	Client SDG: H6D030169
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: H2G9W1AA	Client Smp ID: G-3008-R2-VOST PAIR
Level: LOW	Operator: 22980
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: allcmpds.spk	Quant Type: ISTD
Sublist File: focus.sub	
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m	
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-MOST PAIR
Sample Info: H2C9MLAA,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,,

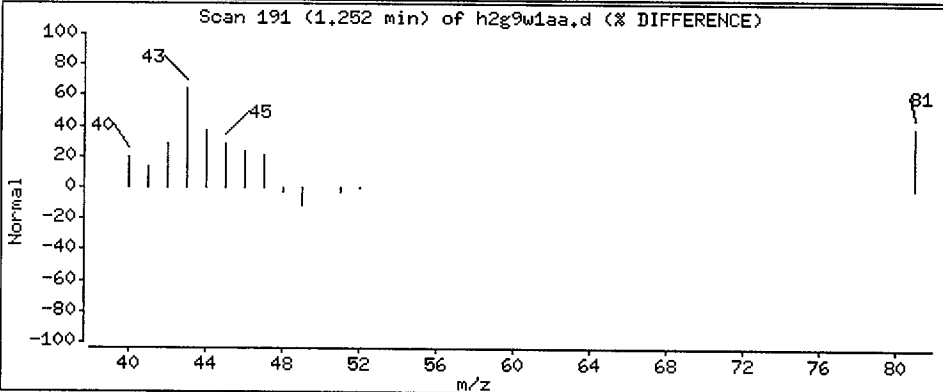
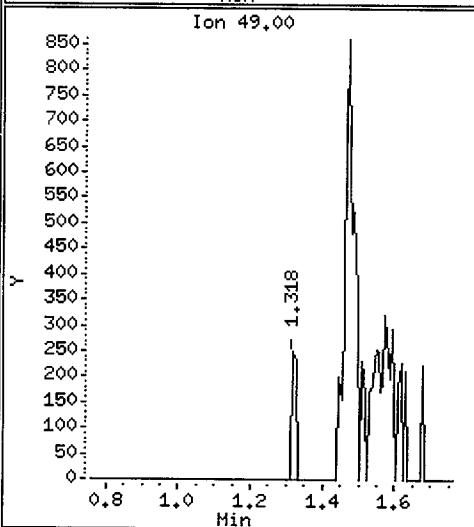
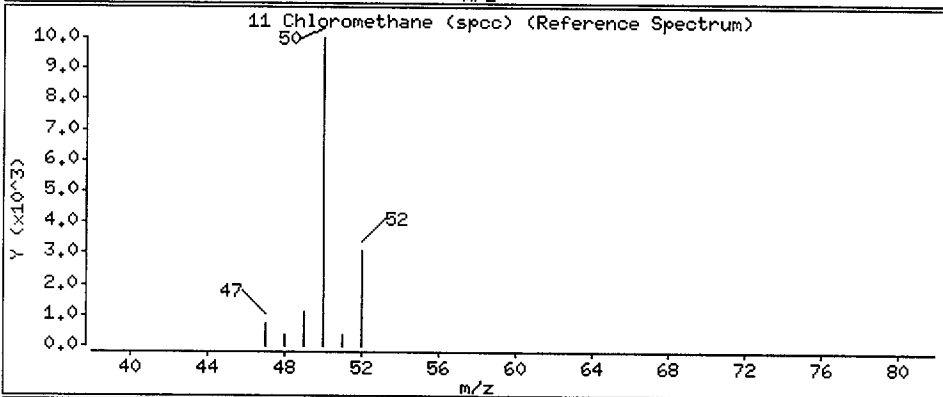
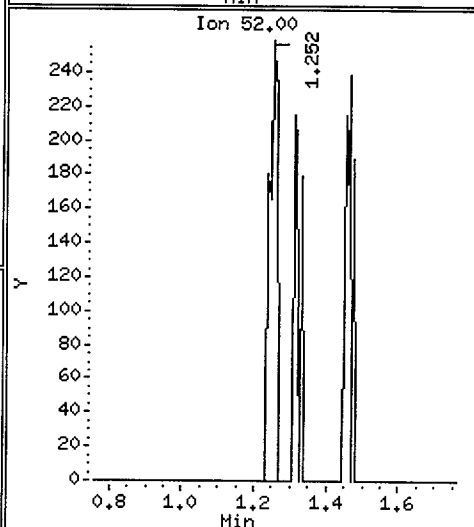
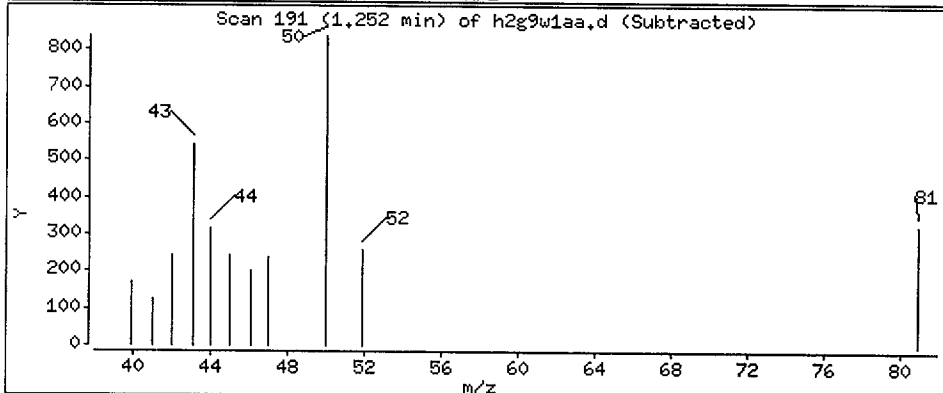
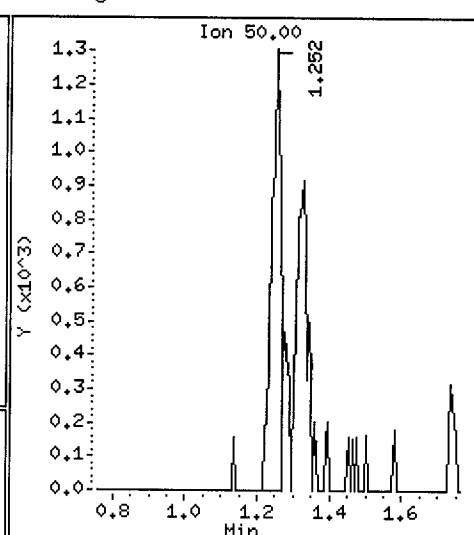
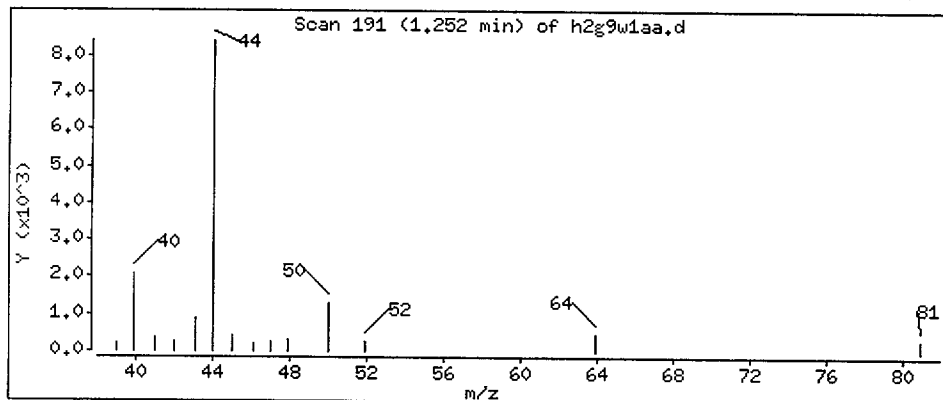
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

11 Chloromethane (spoc)

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,,,

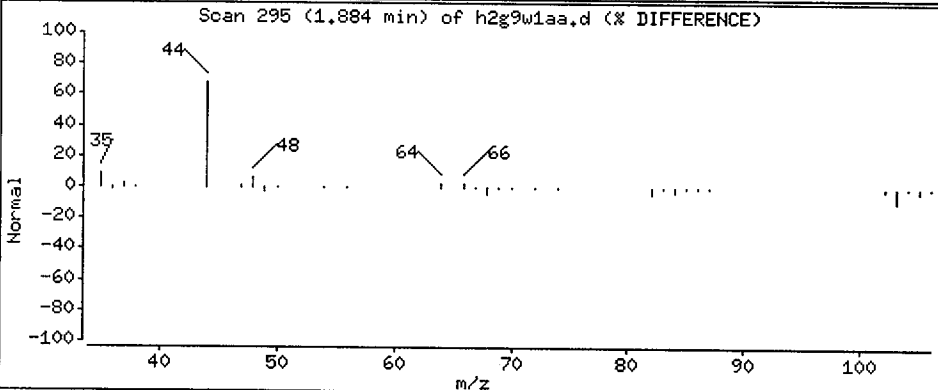
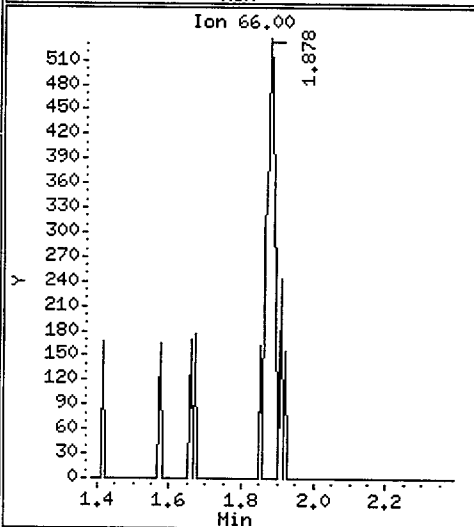
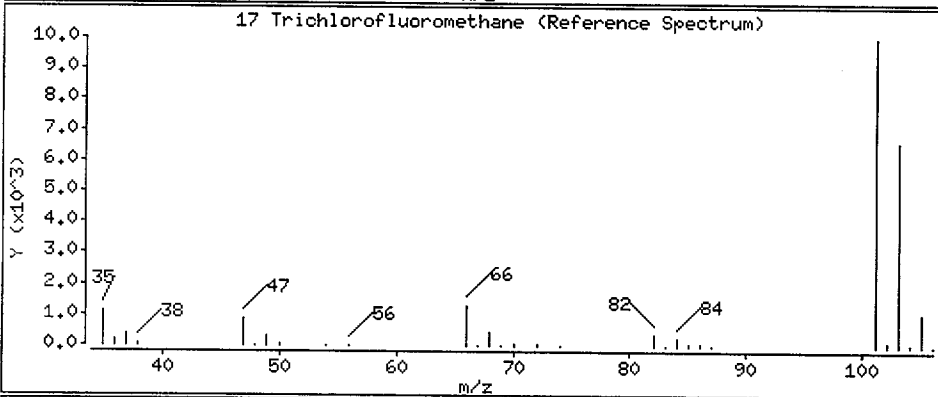
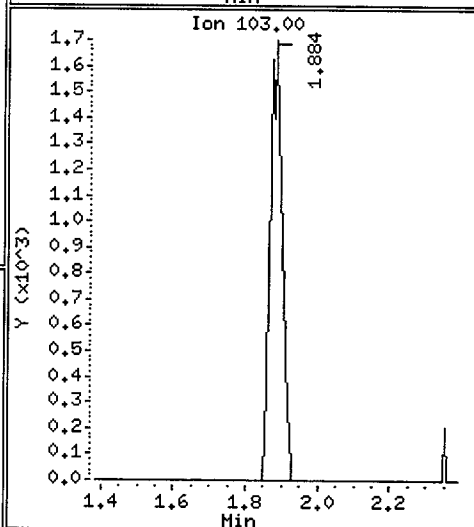
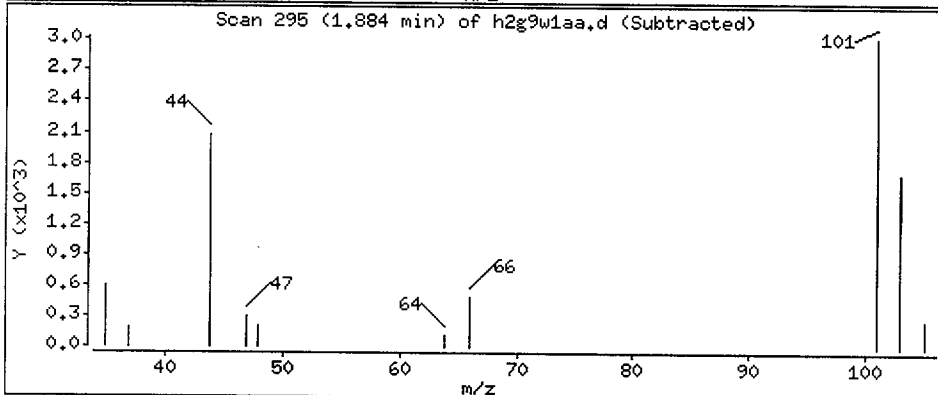
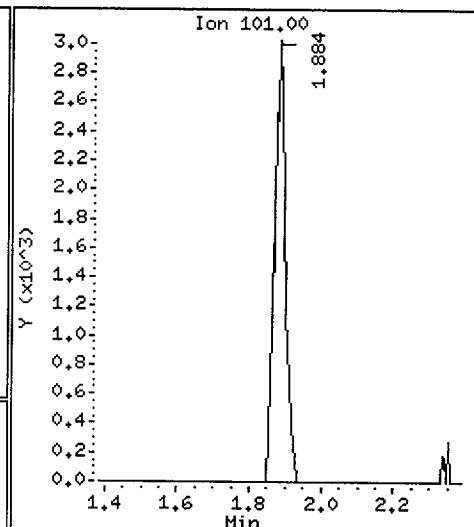
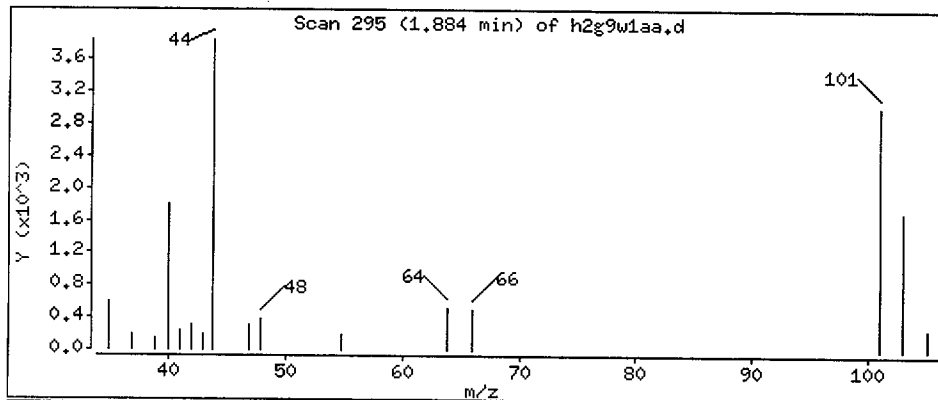
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

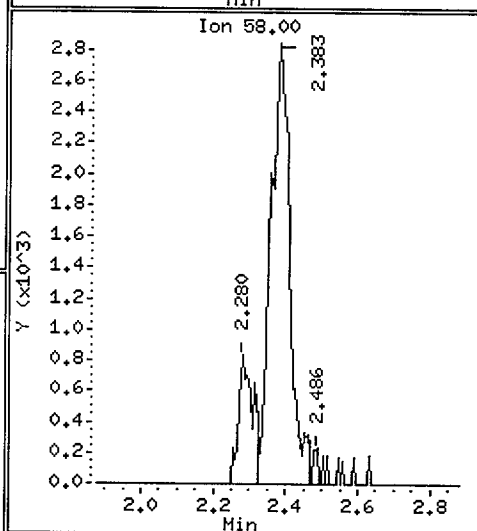
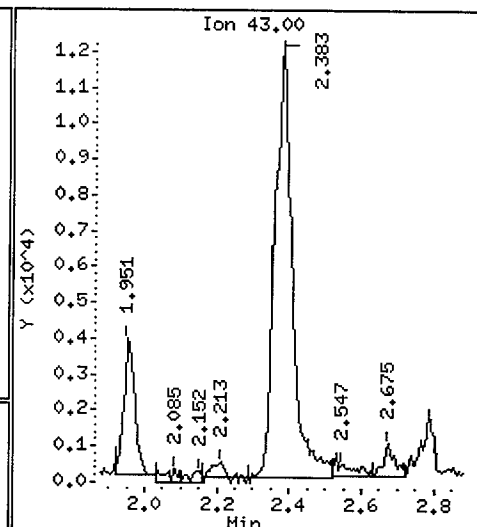
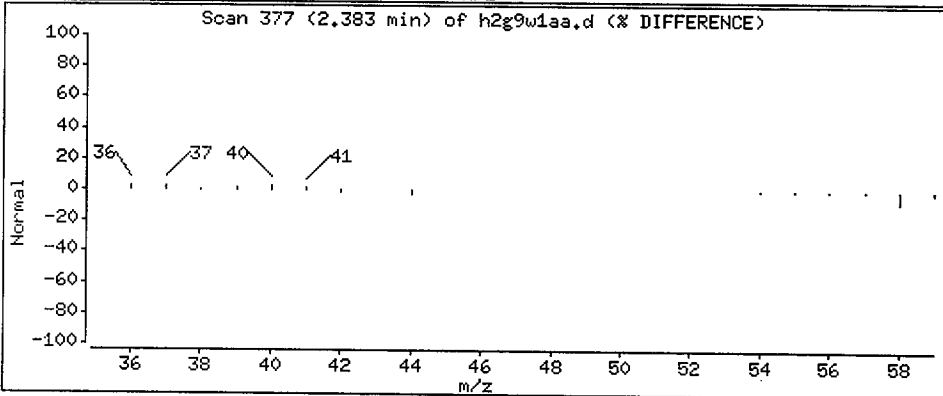
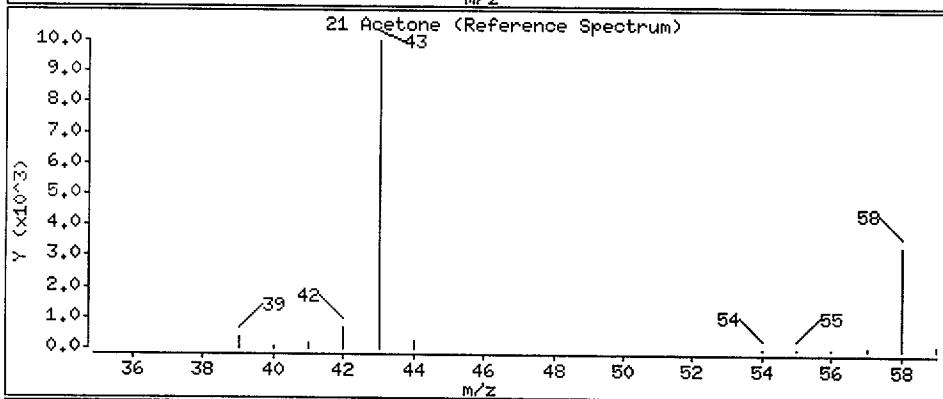
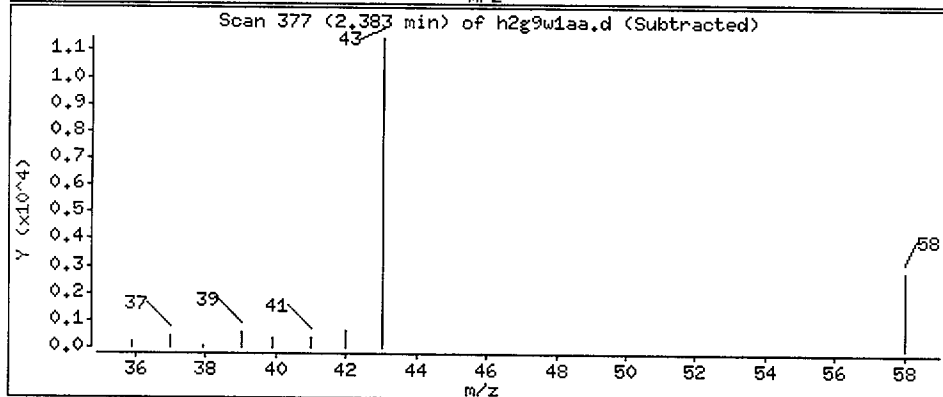
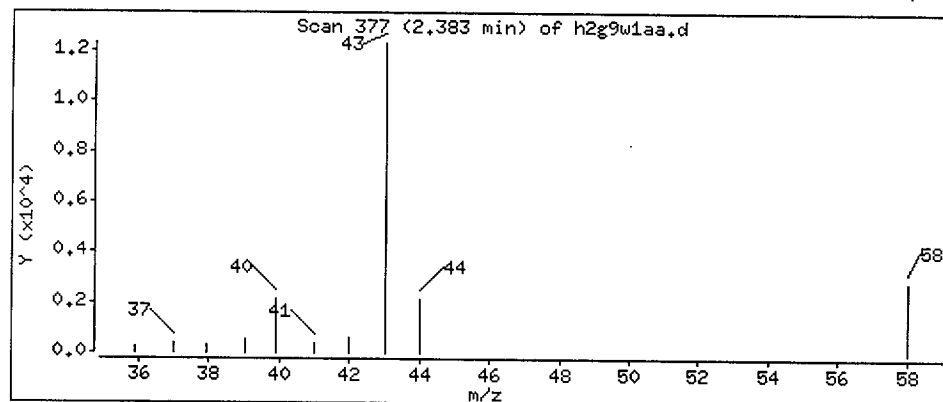
Operator: 22980

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,,,

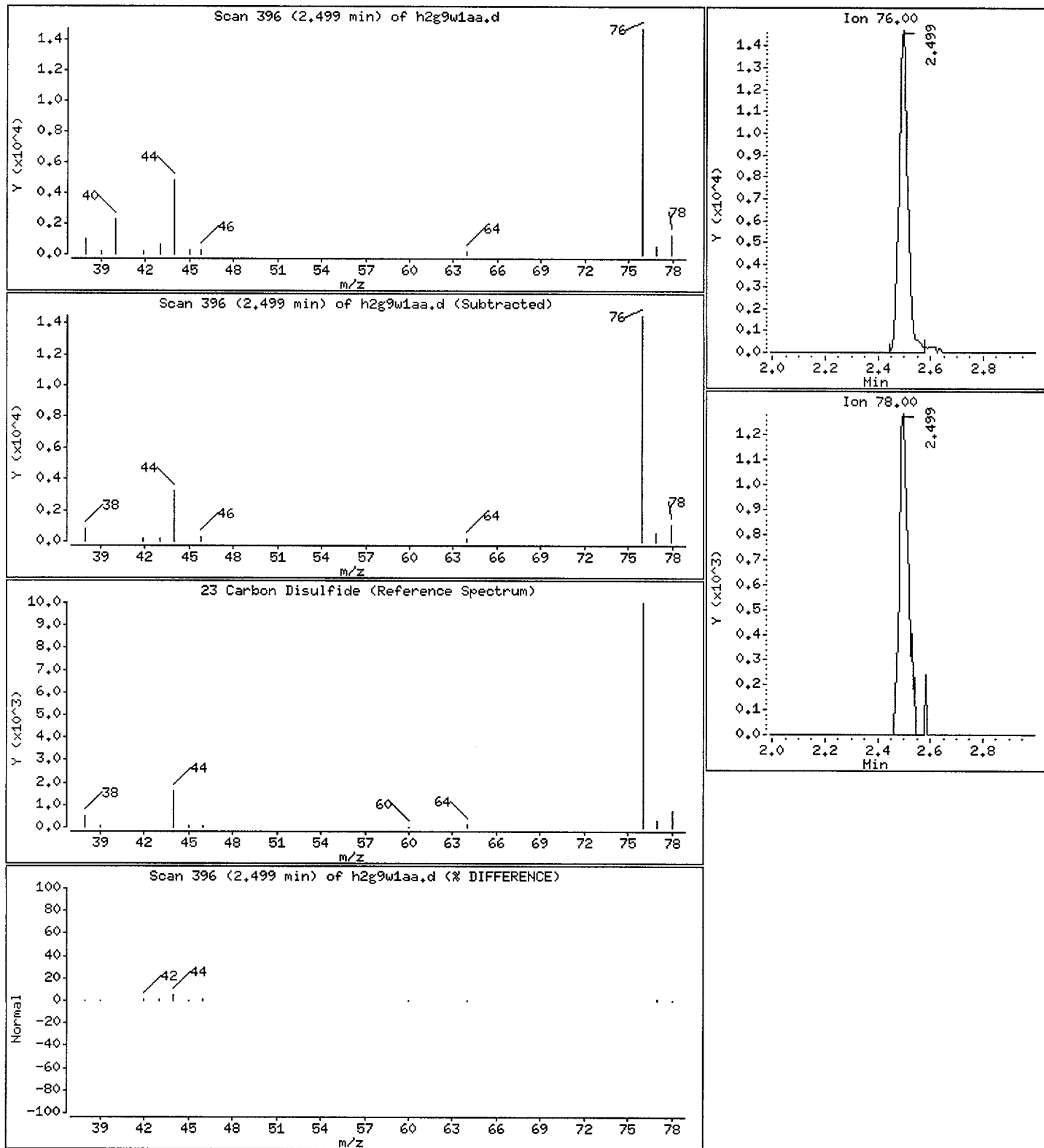
Operator: 22980

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,,,

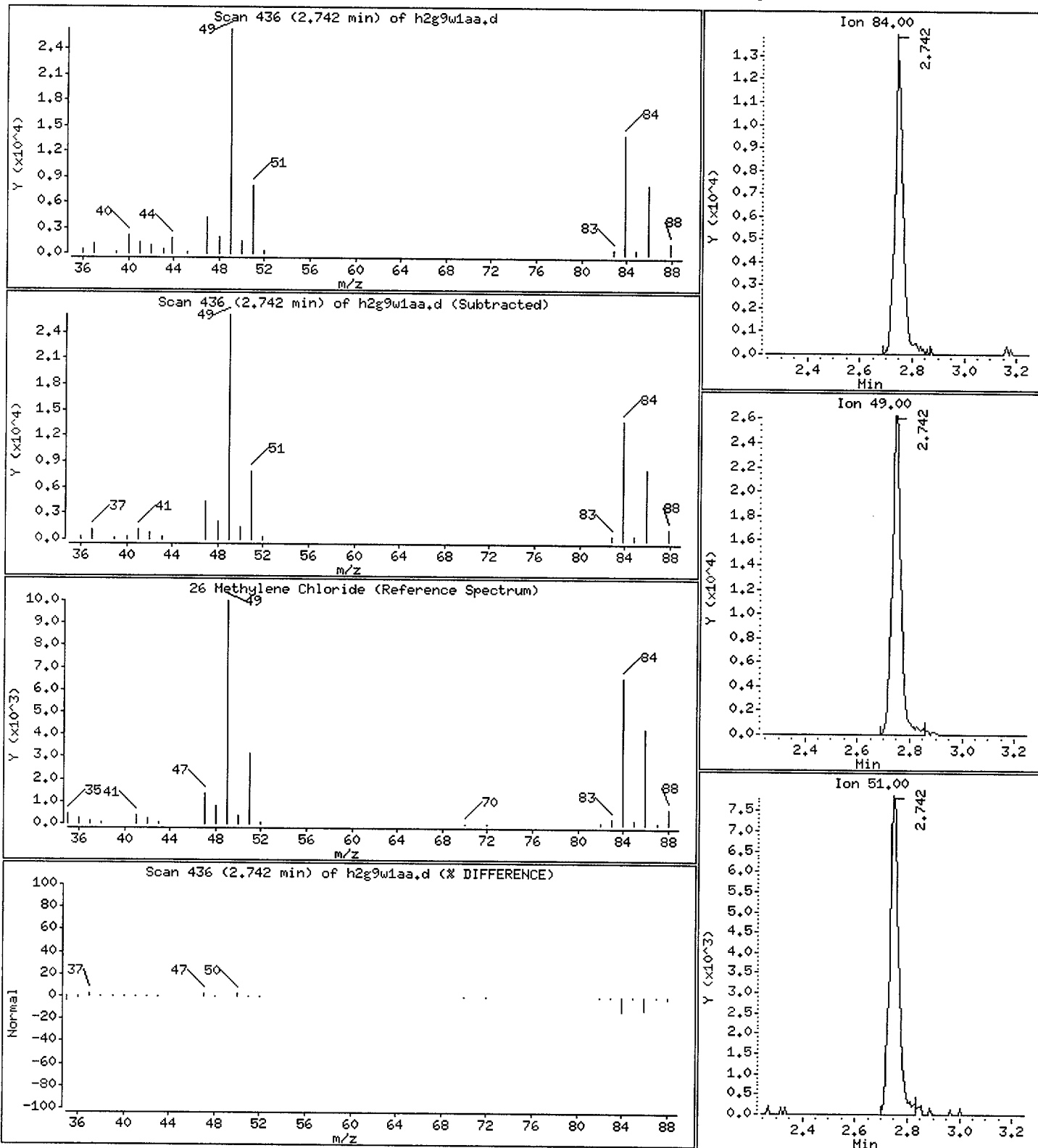
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

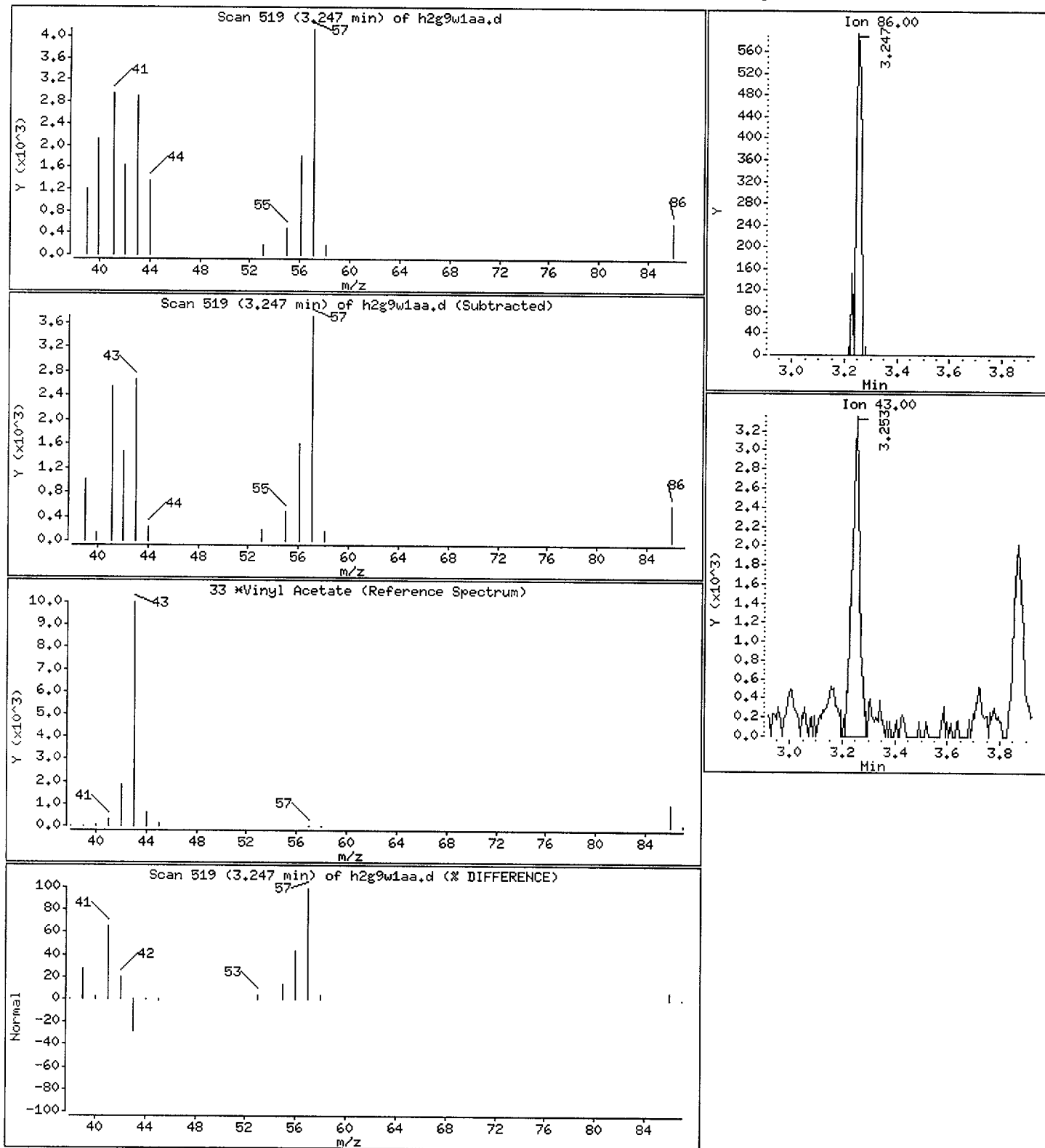
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

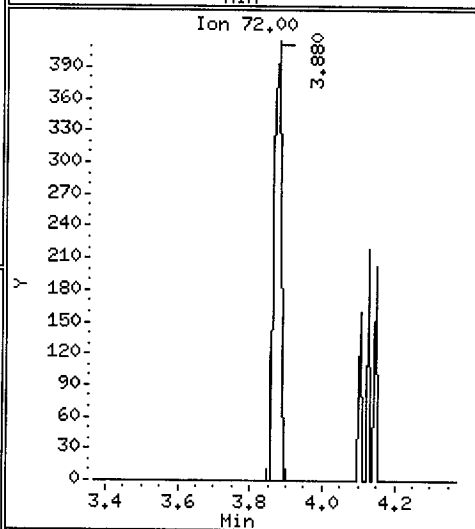
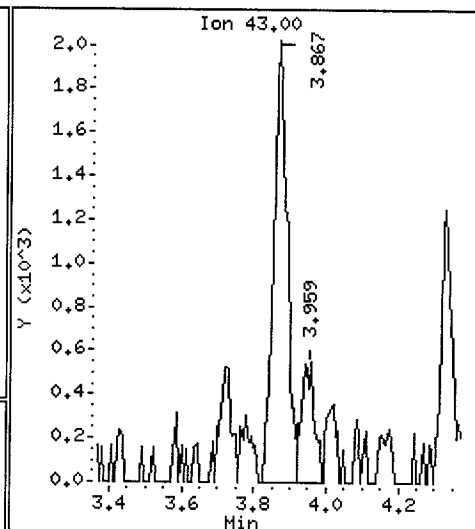
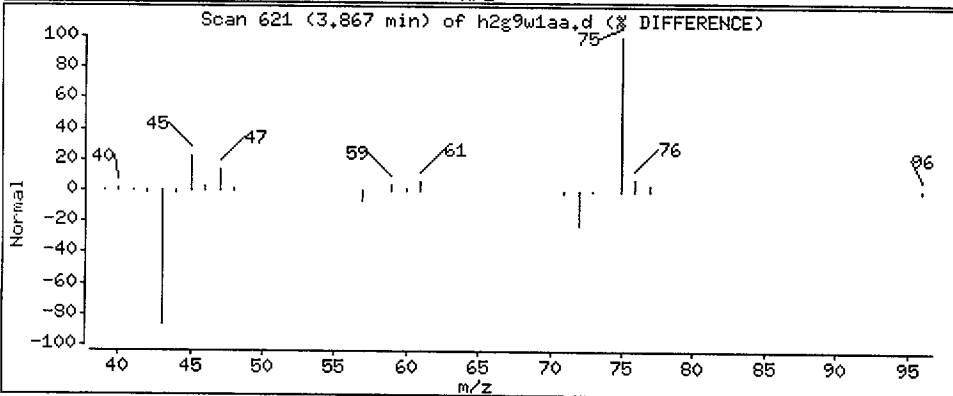
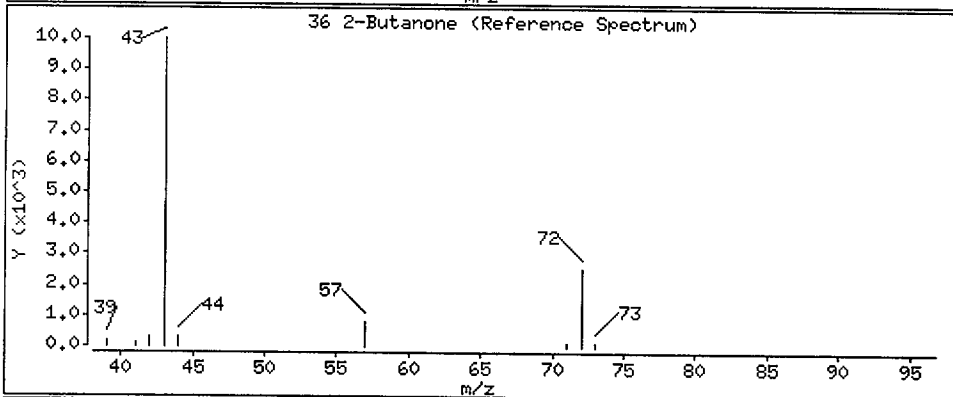
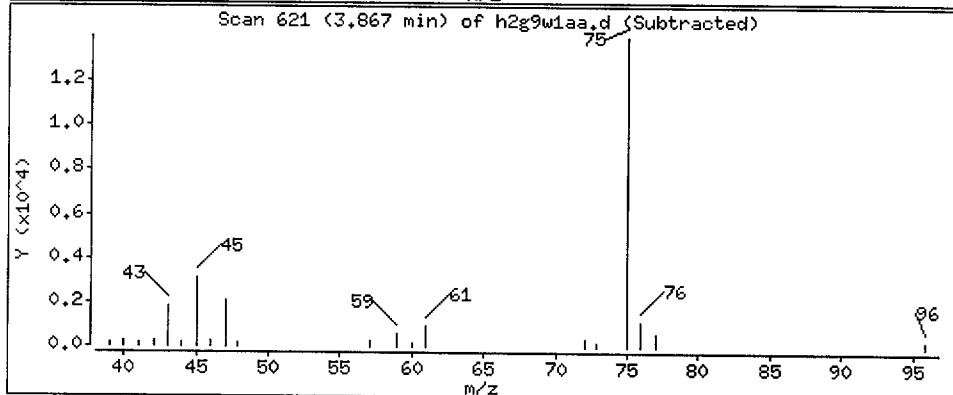
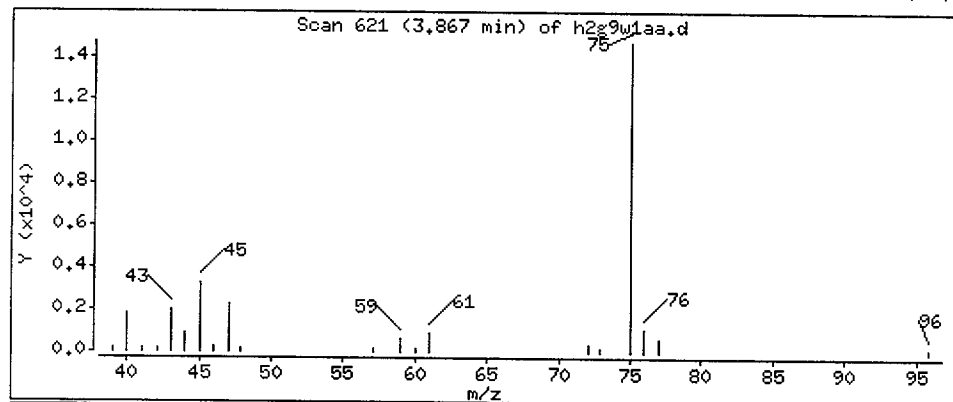
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9W1AA,1,0,,,

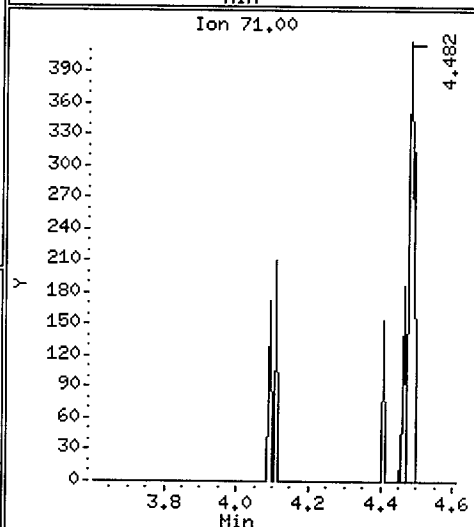
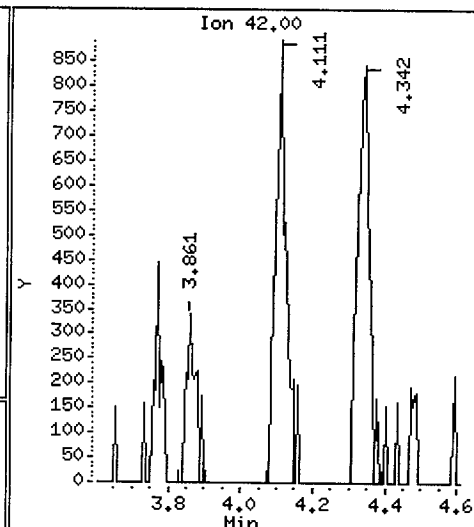
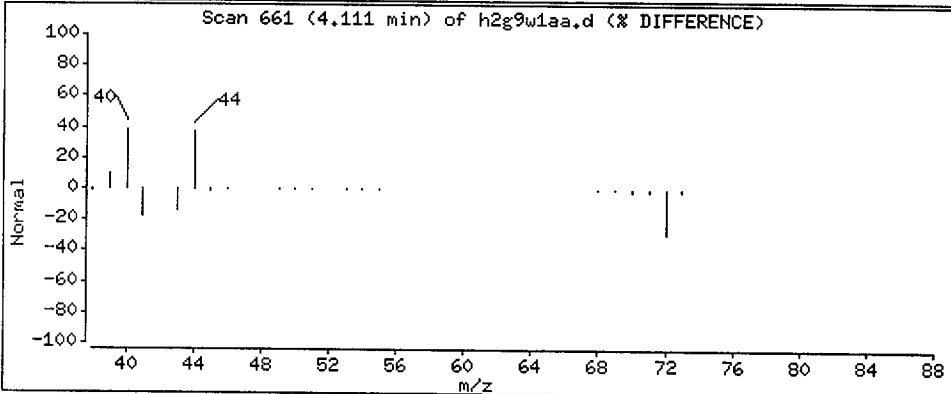
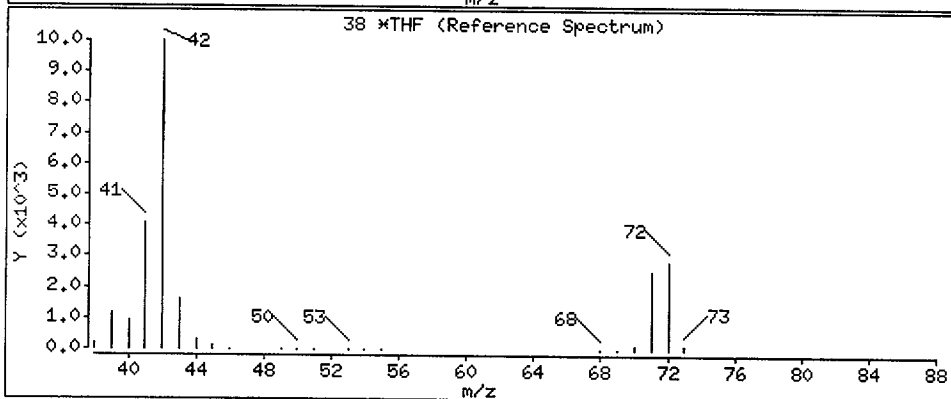
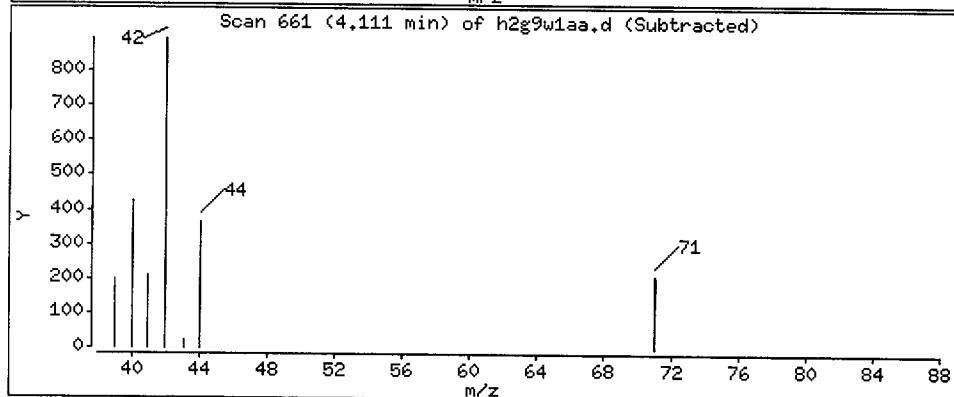
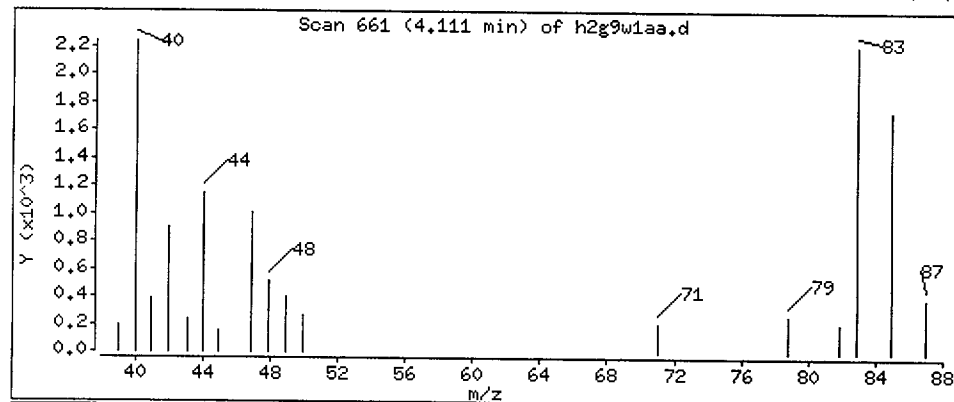
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

Concentration: 0.027654 ug

38 *THF



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,,

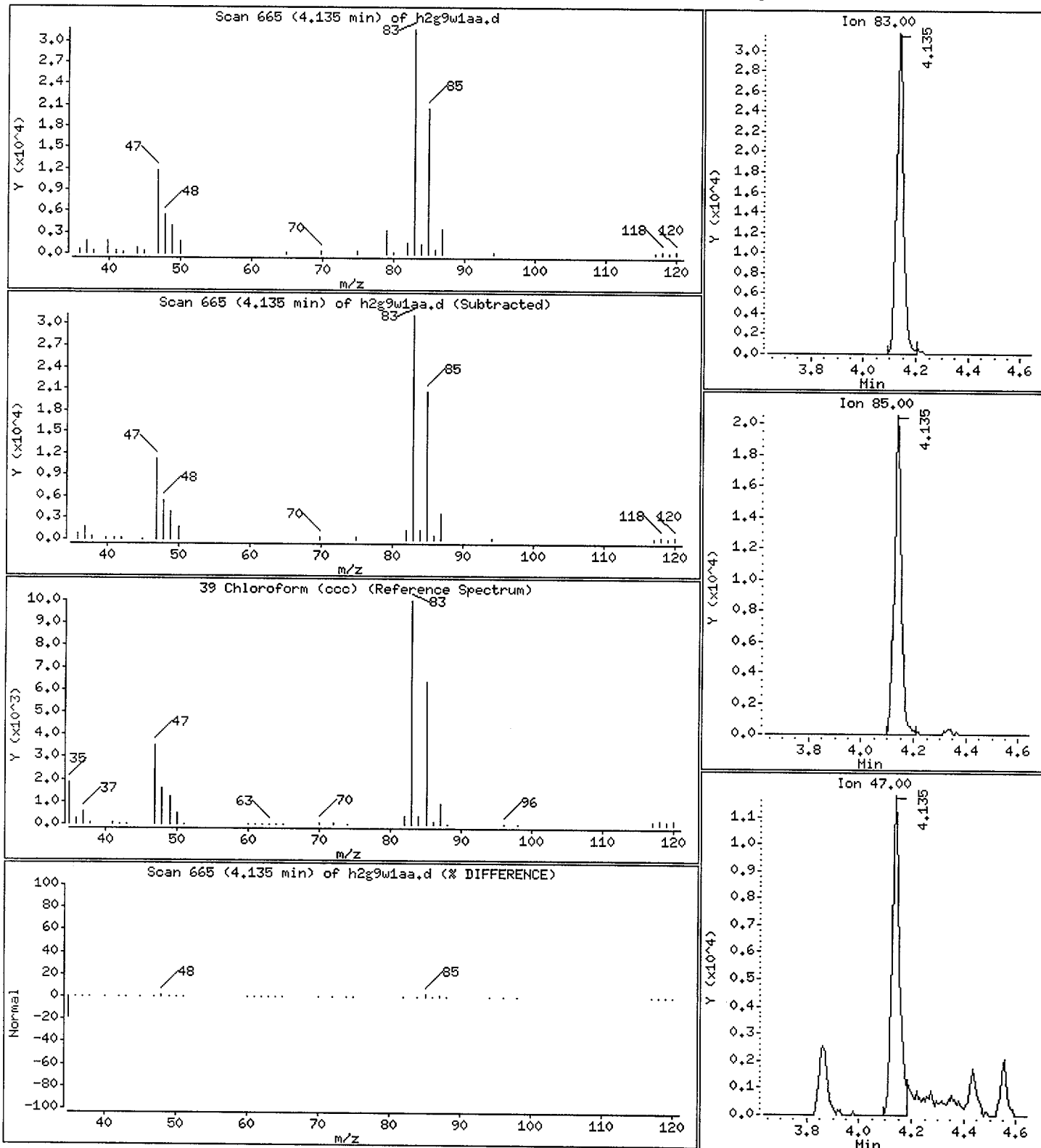
Operator: 22980

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,,,

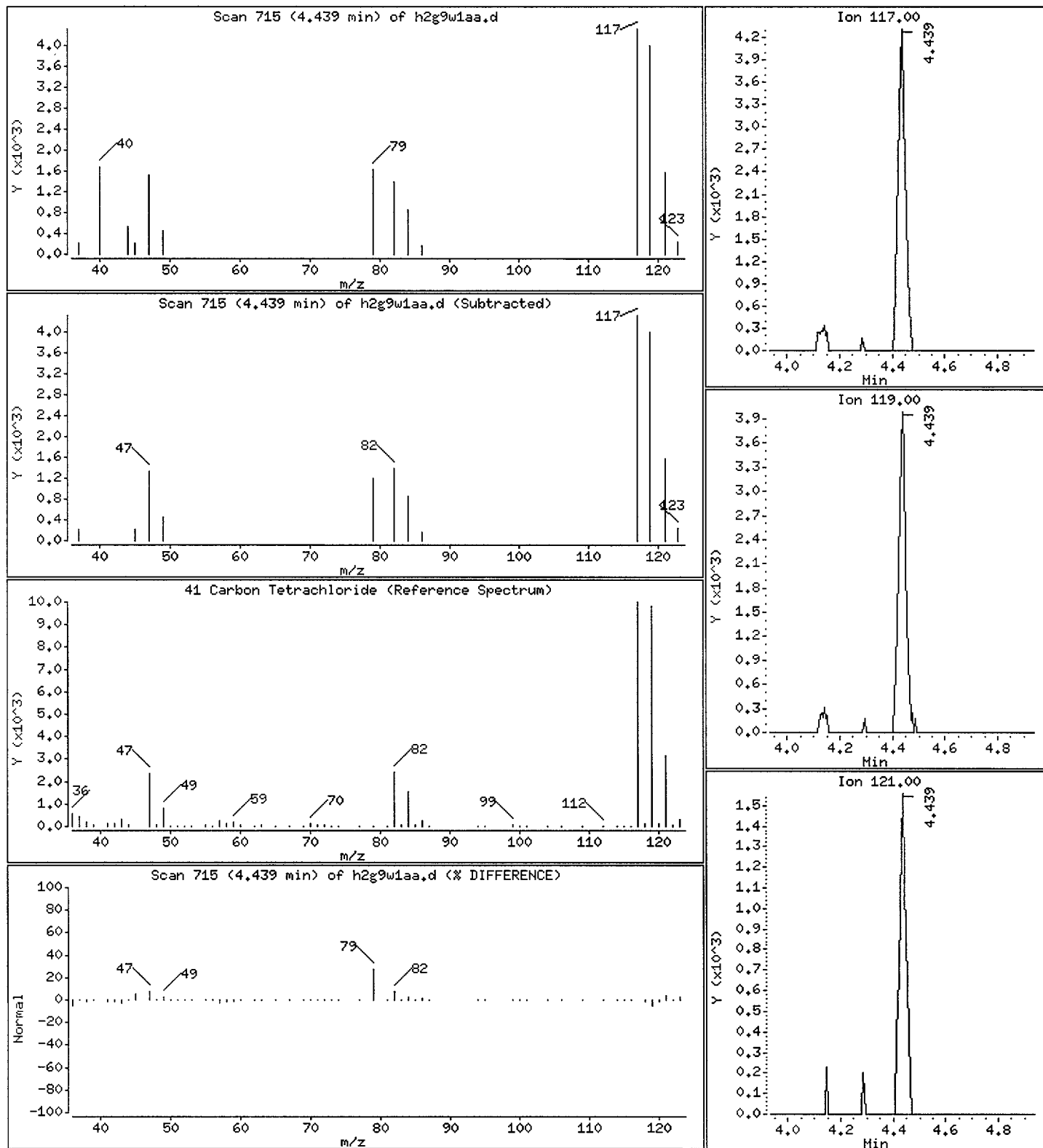
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9W1AA,1,0,,,

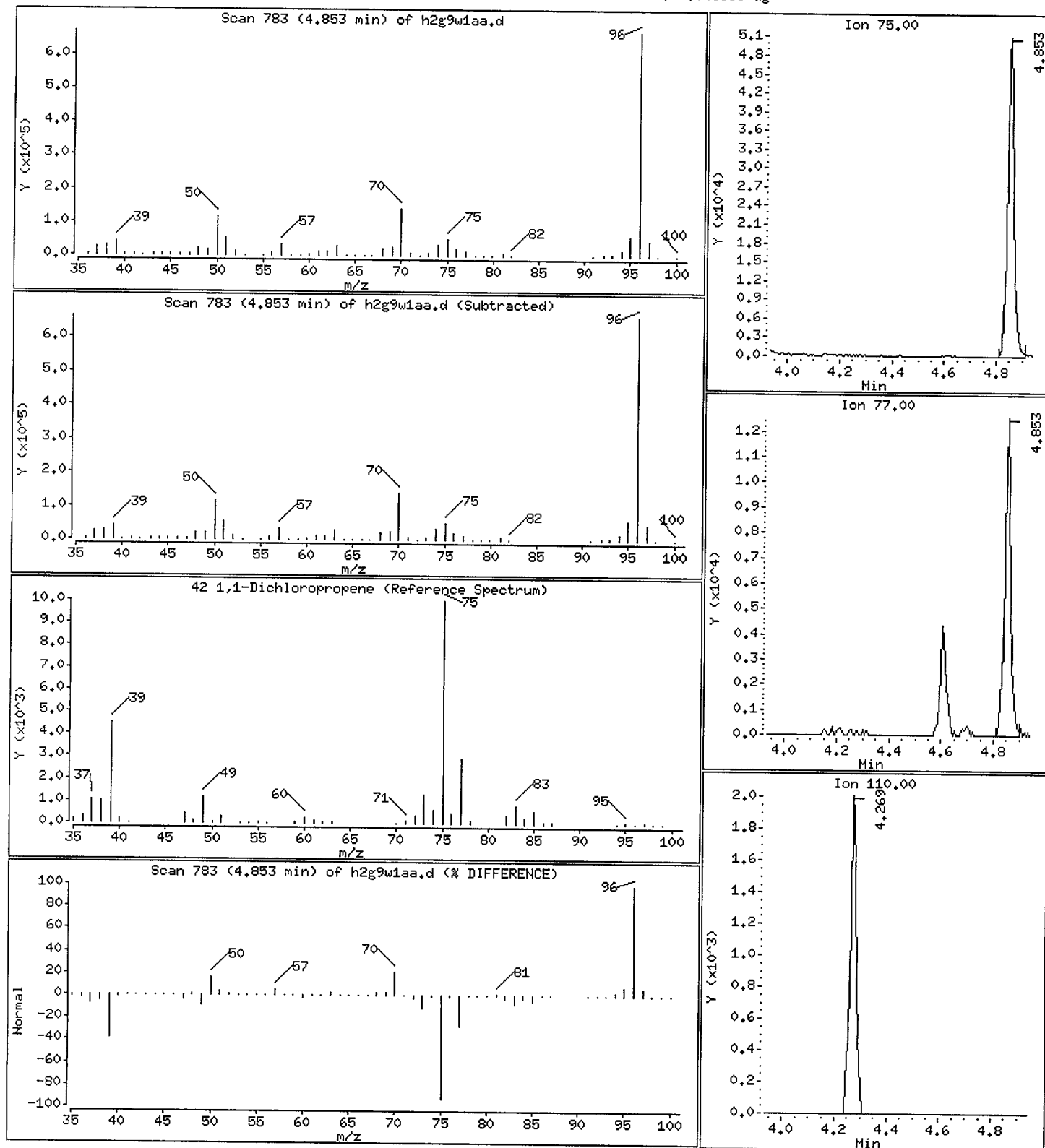
Operator: 22980

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,,,

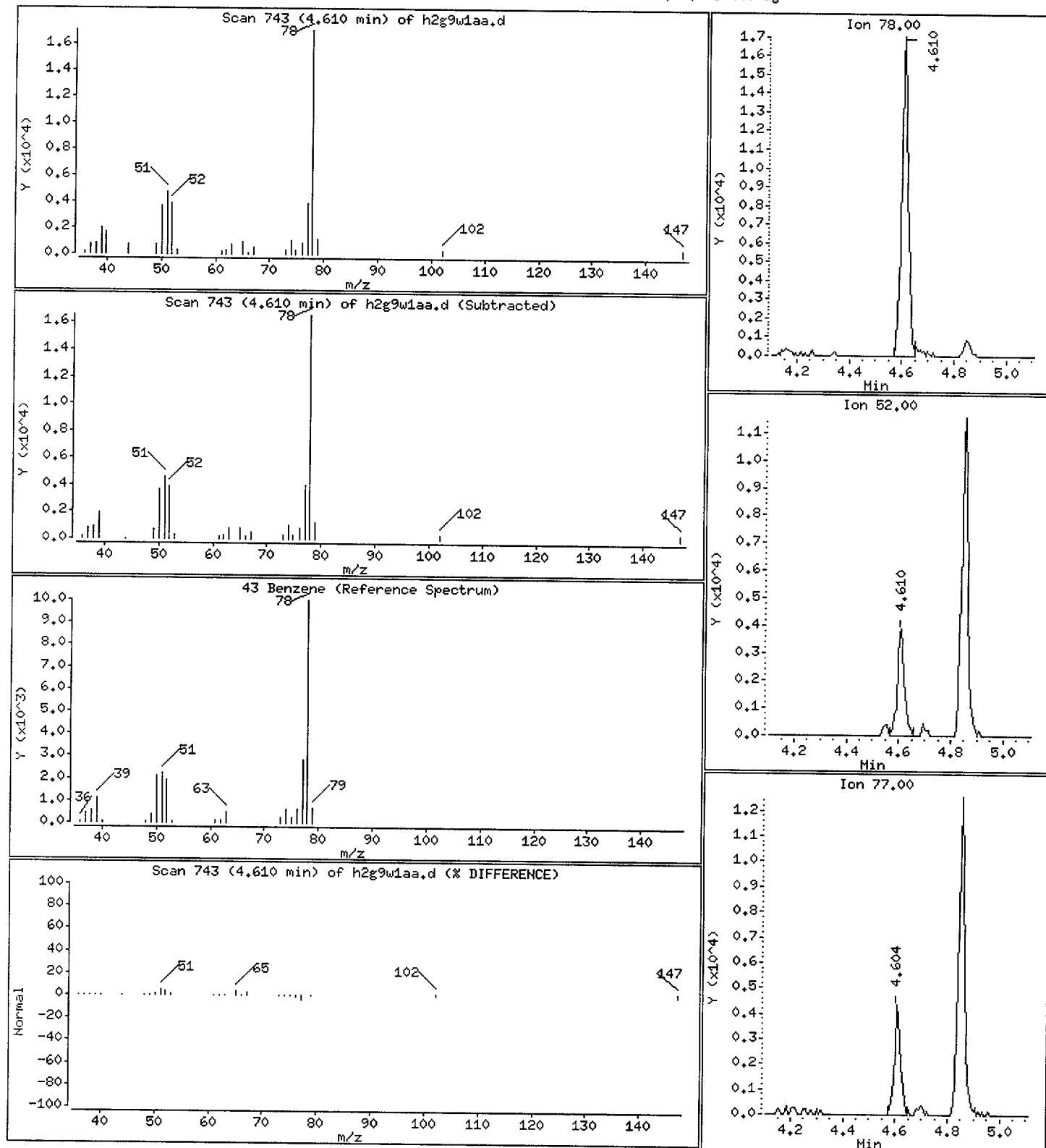
Operator: 22980

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,,,

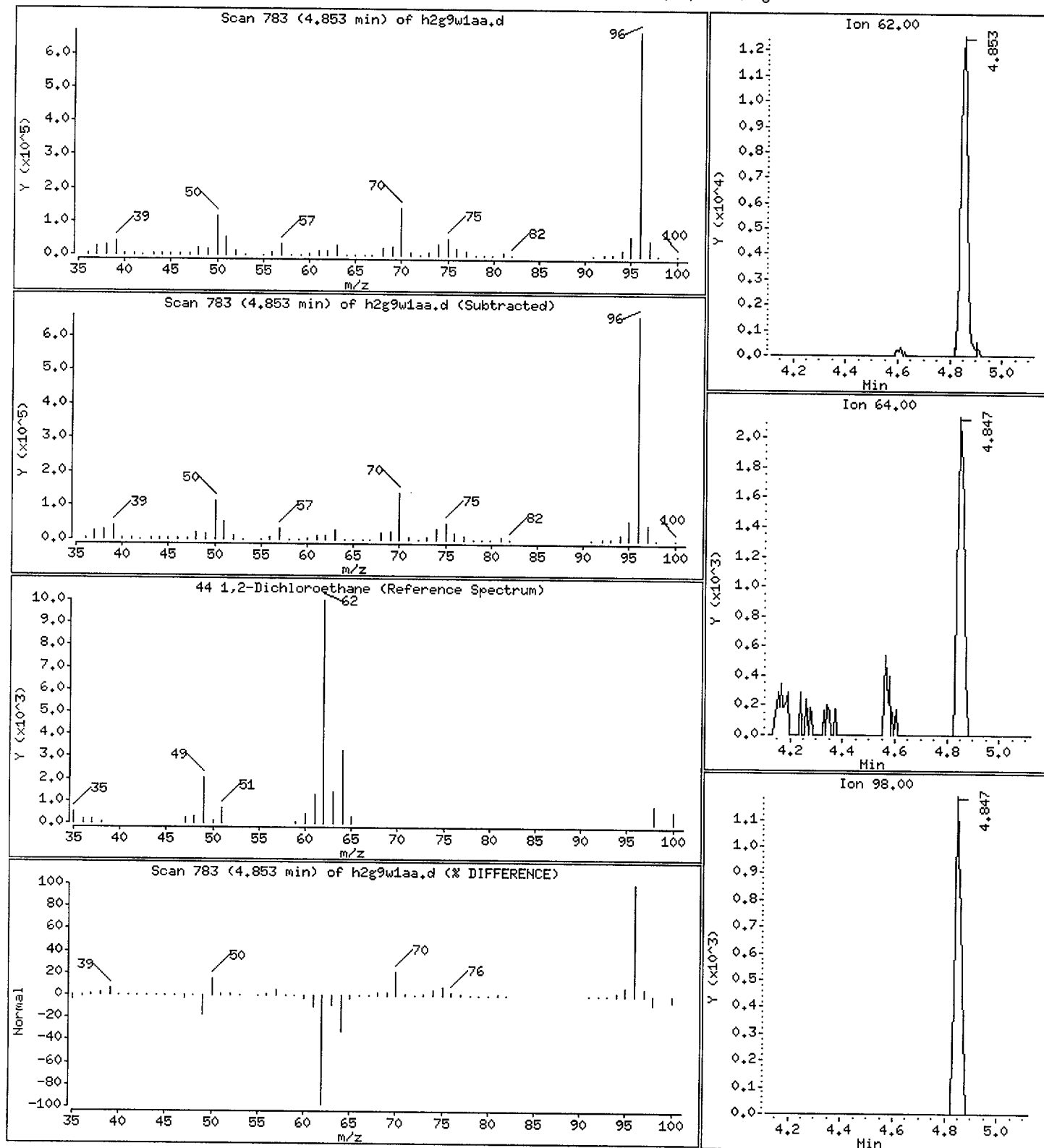
Operator: 22980

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,,,

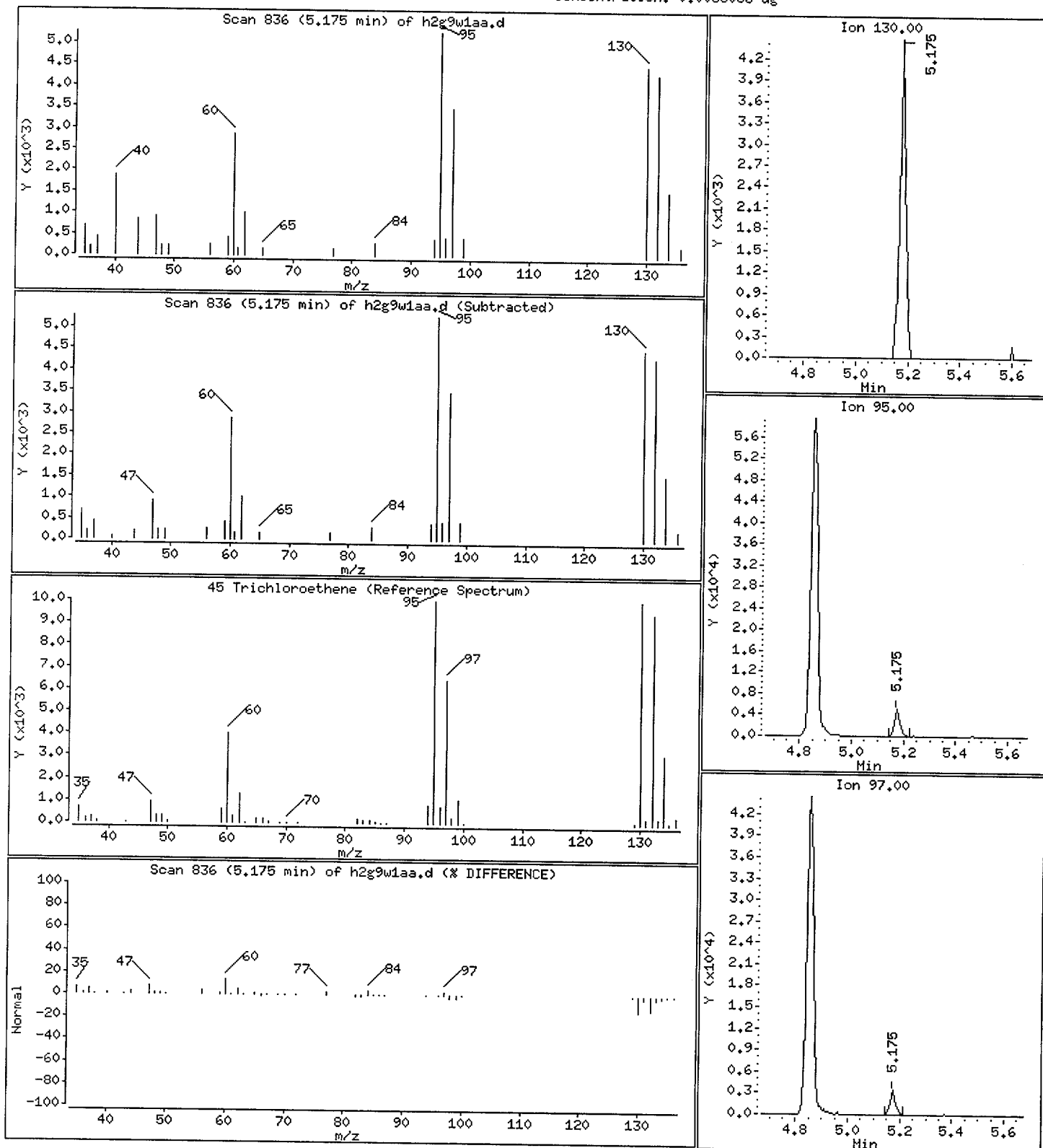
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

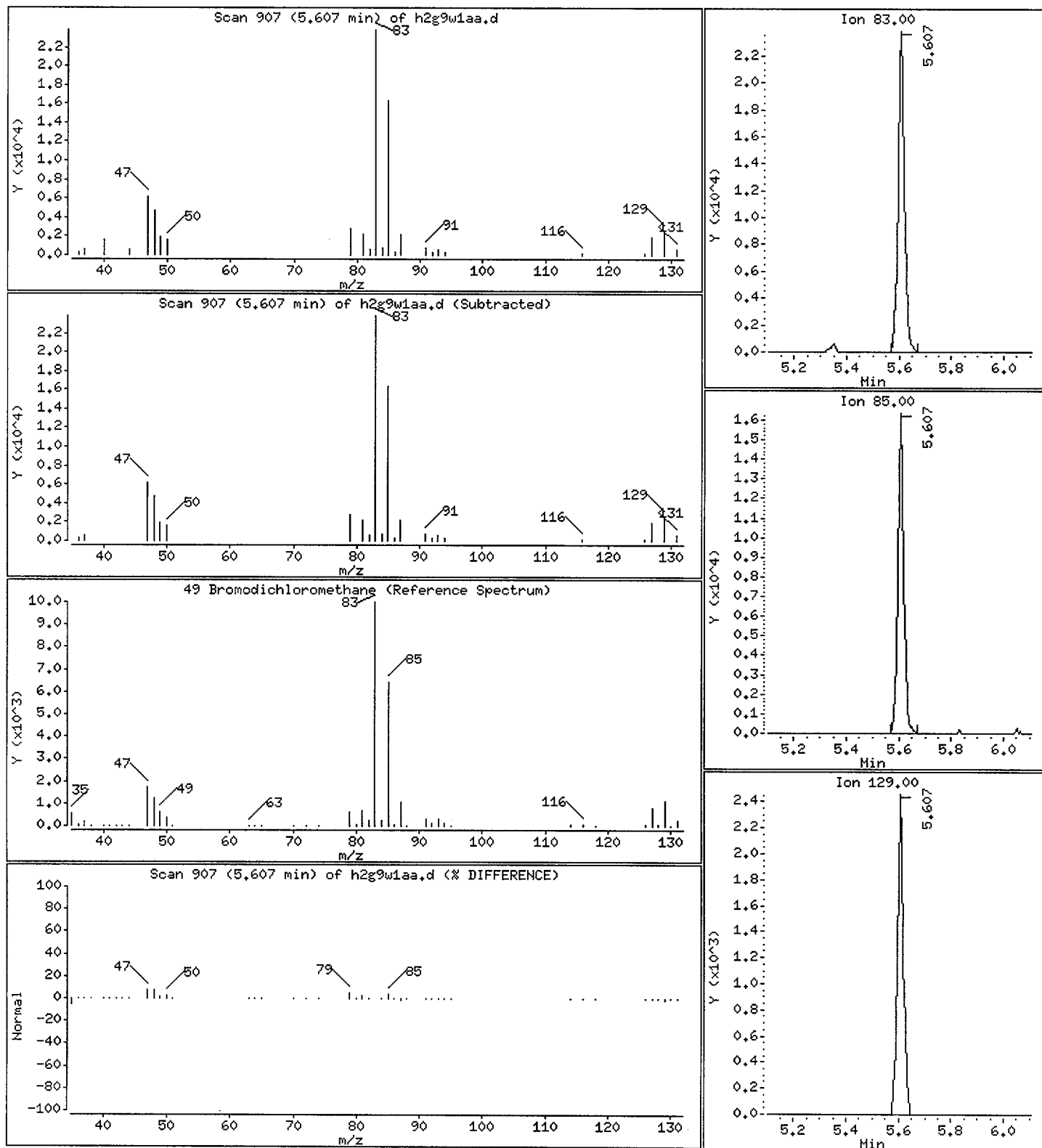
Operator: 22980

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,,,

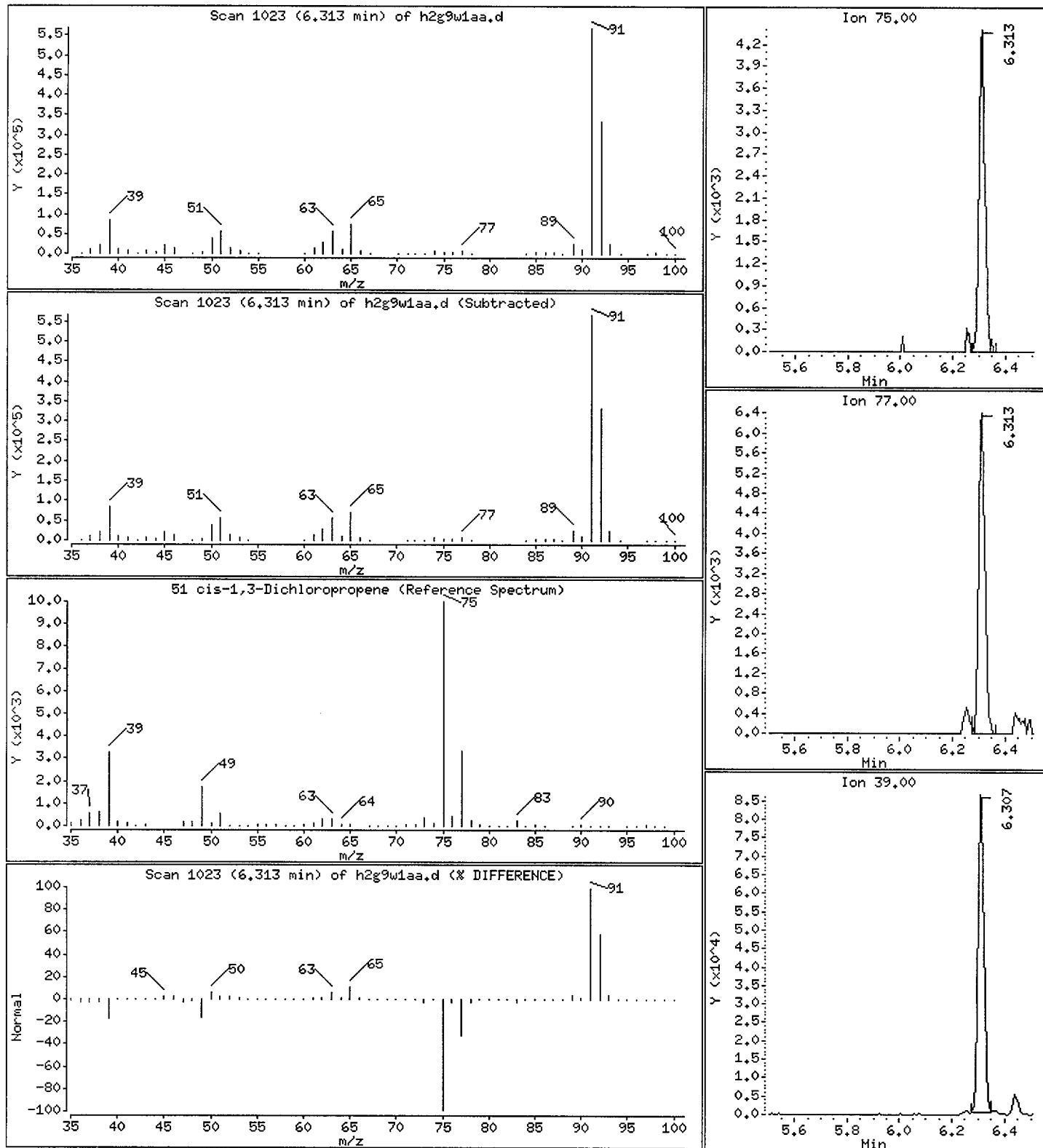
Operator: 22980

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: C-3008-R2-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9W1AA,1,0,,,

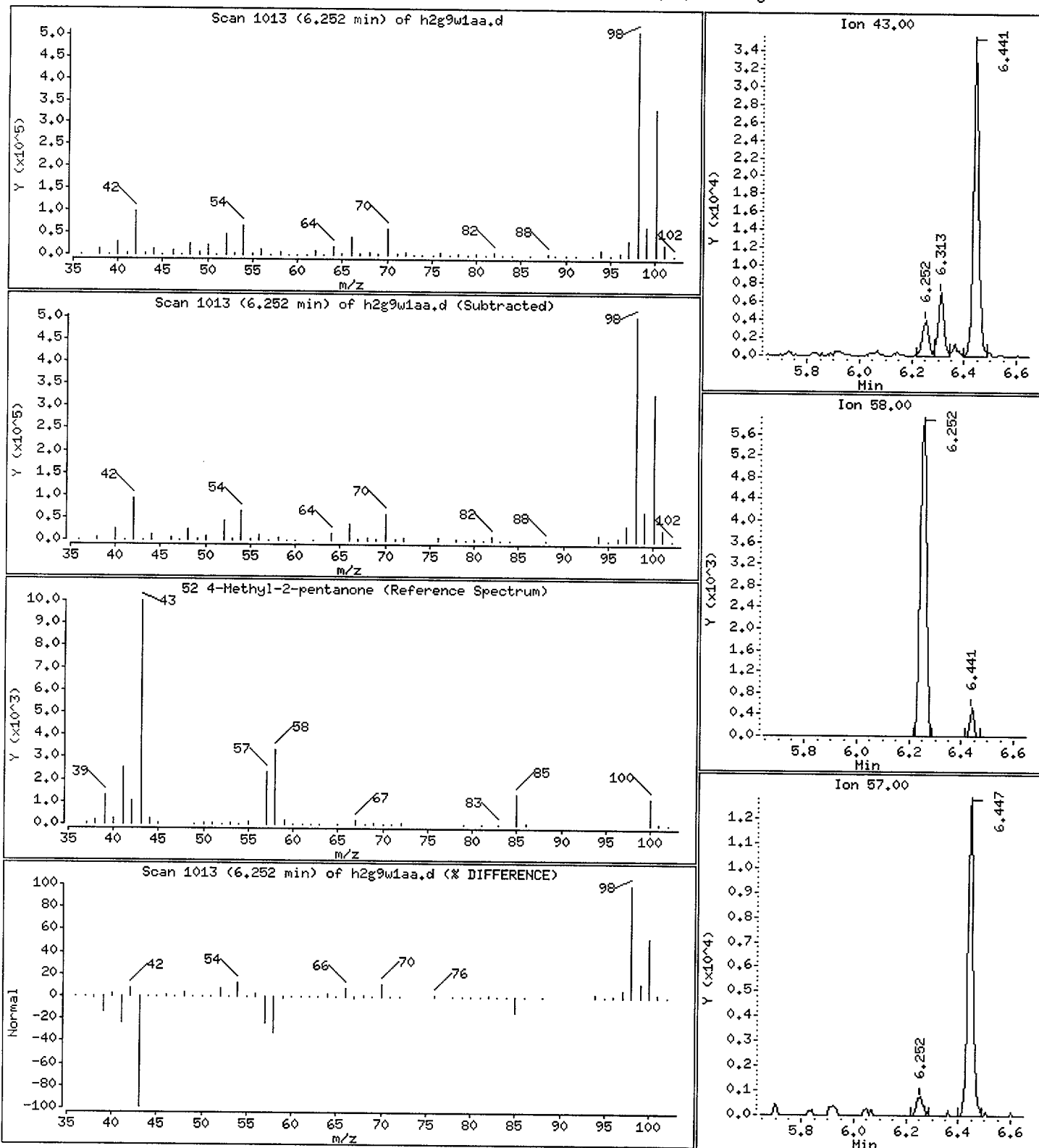
Operator: 22980

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: C-3008-R2-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

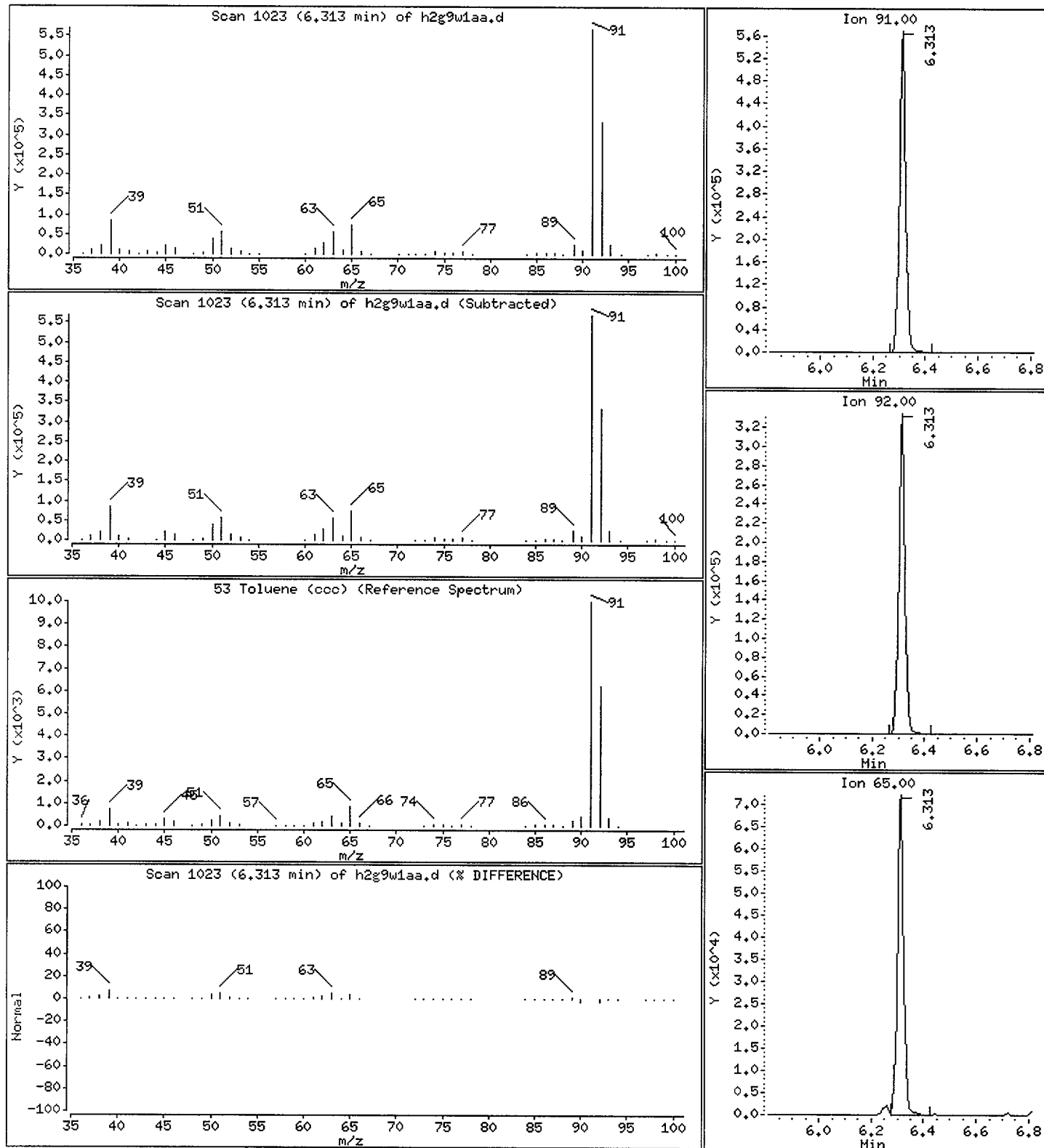
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

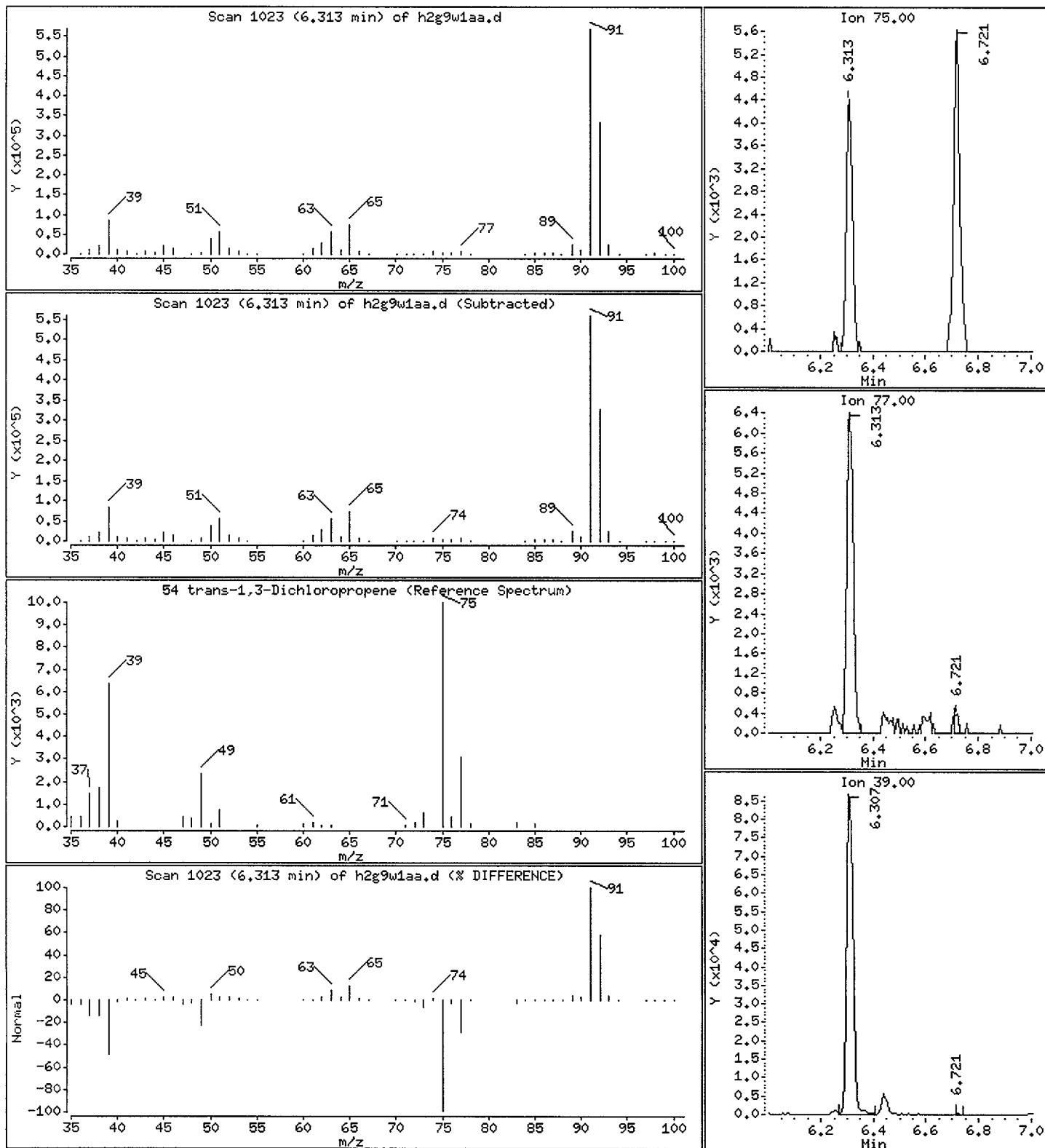
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

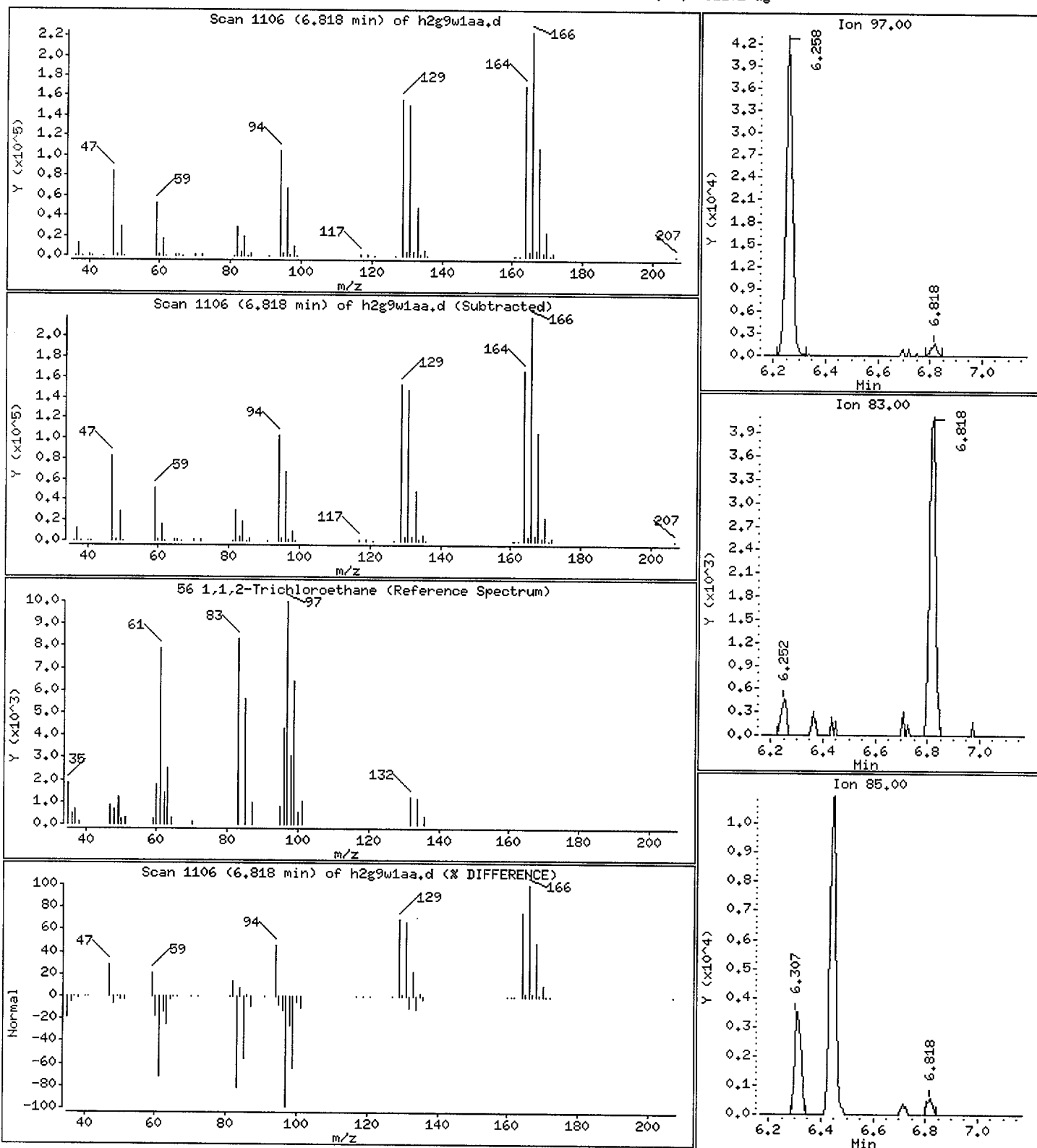
Operator: 22980

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: C-3008-R2-VOST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

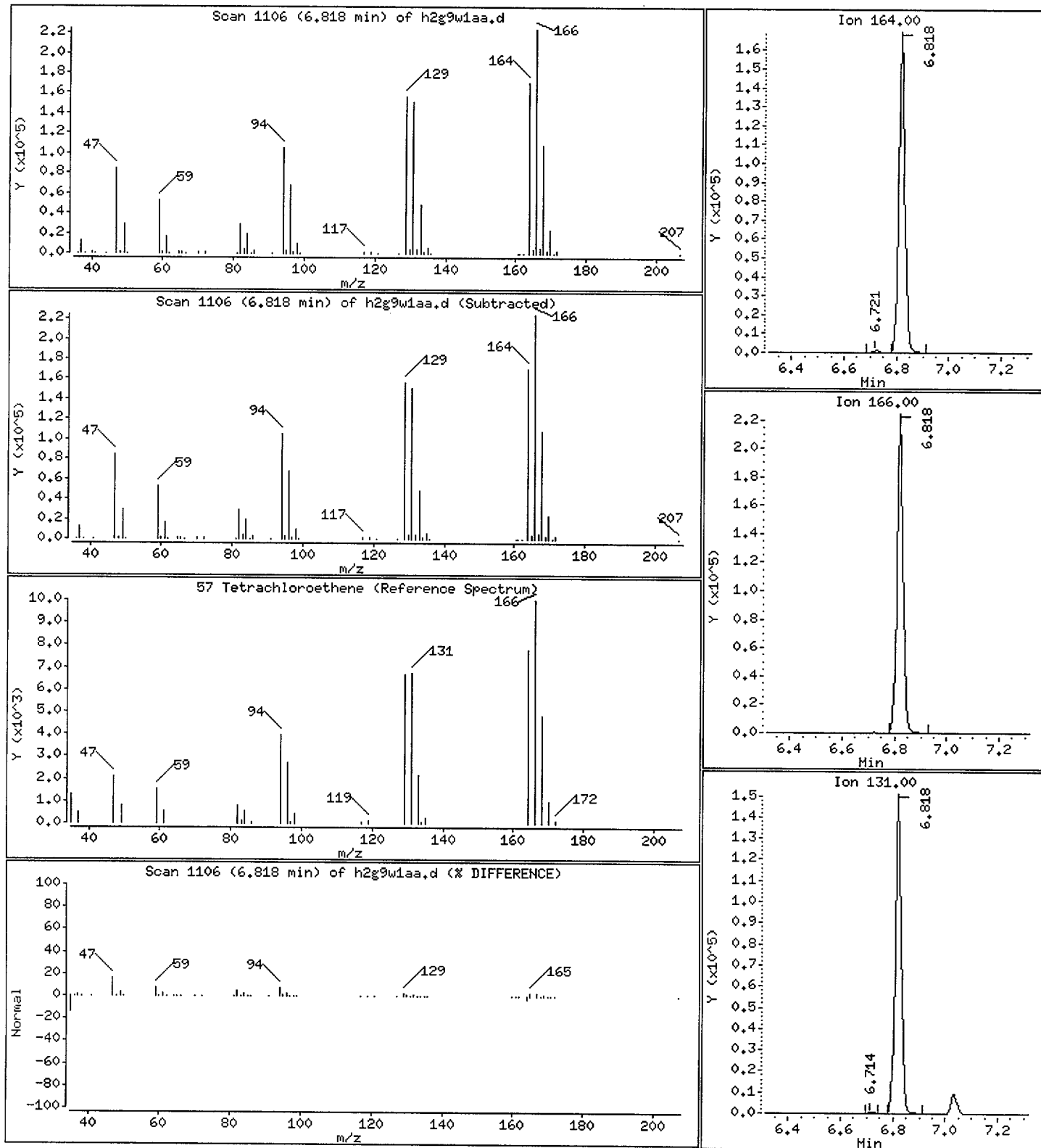
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

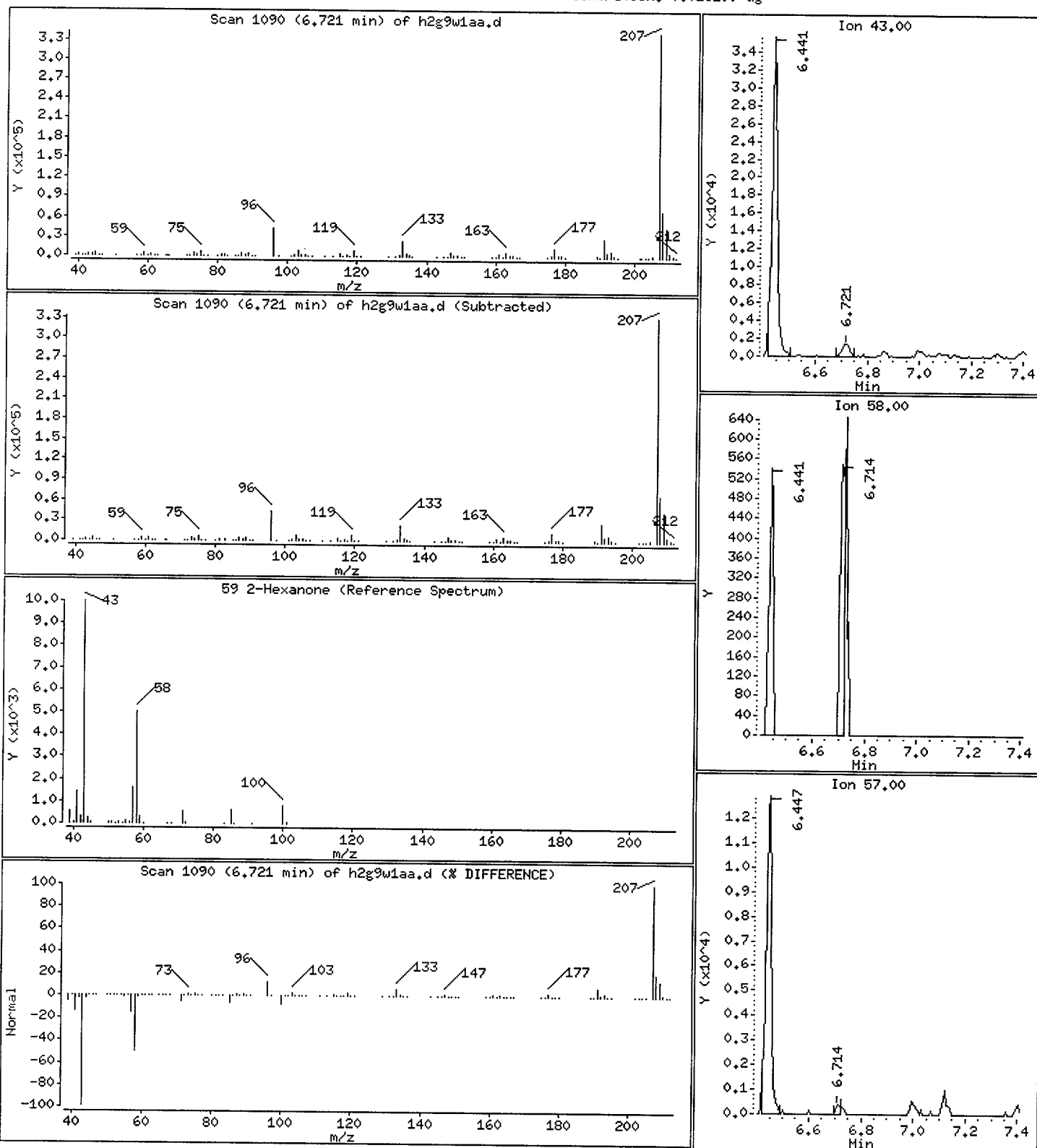
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9W1AA,1,0,,,

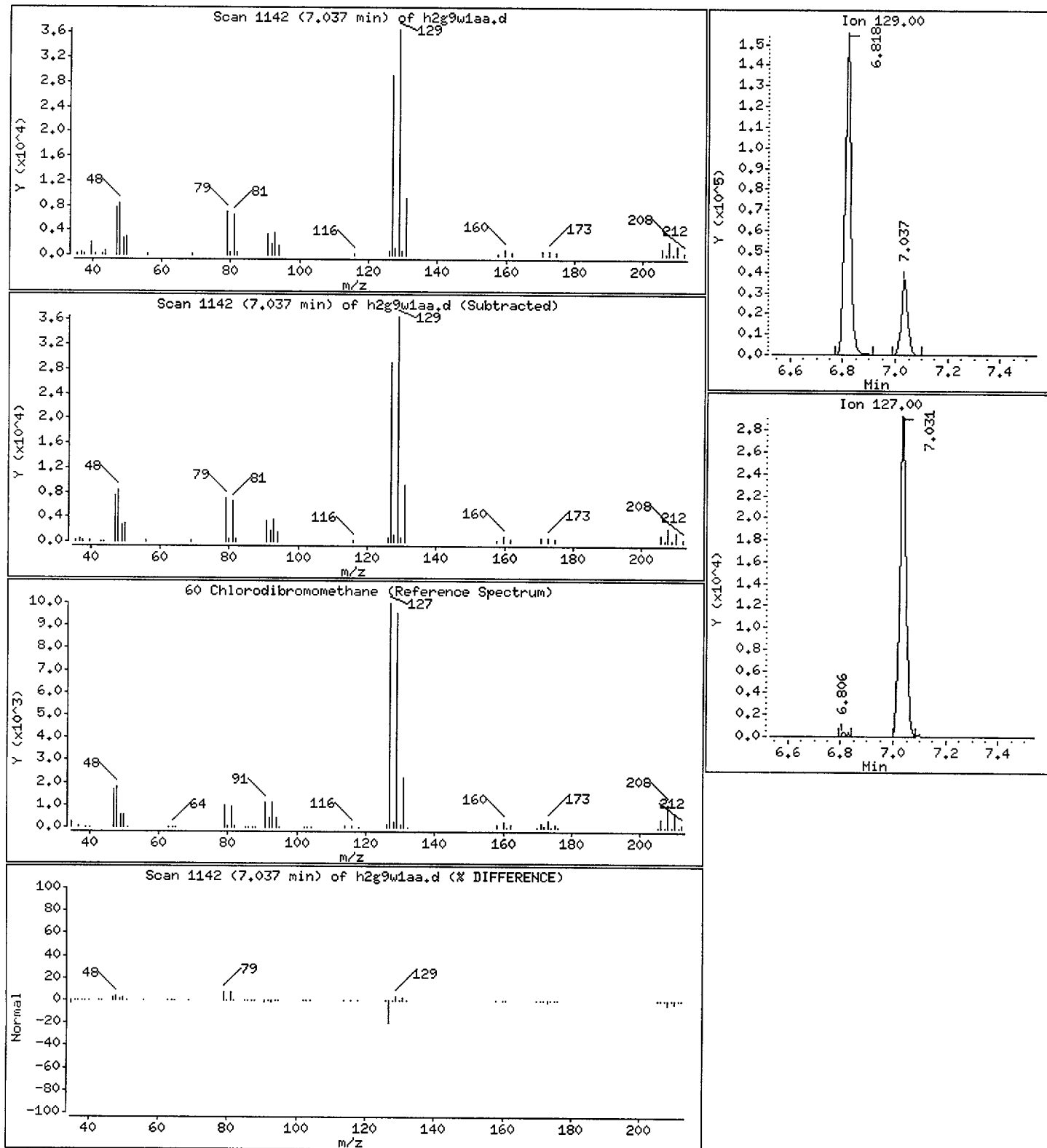
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9W1AA,1,0,,,

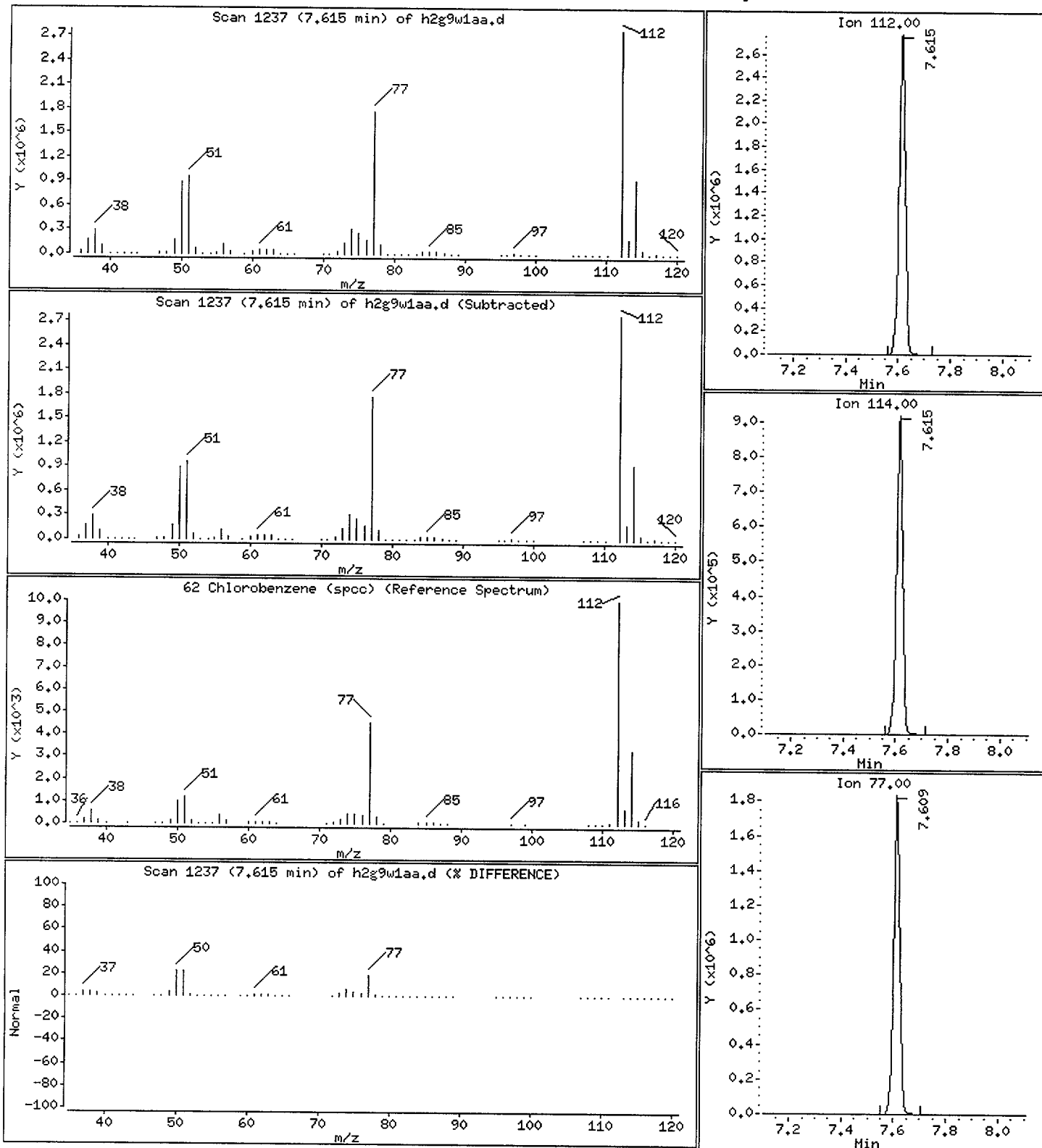
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

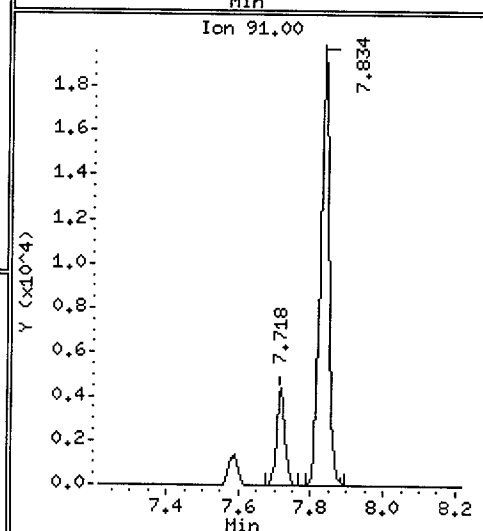
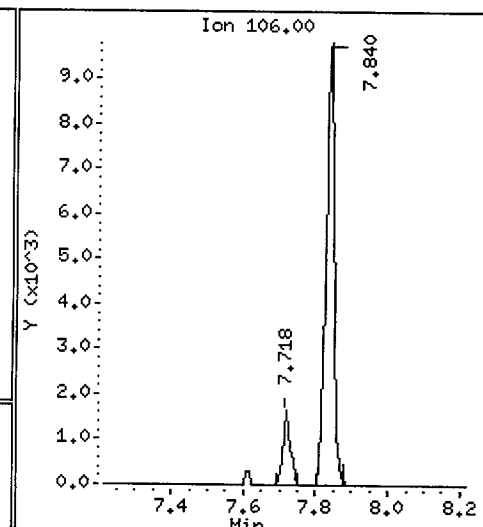
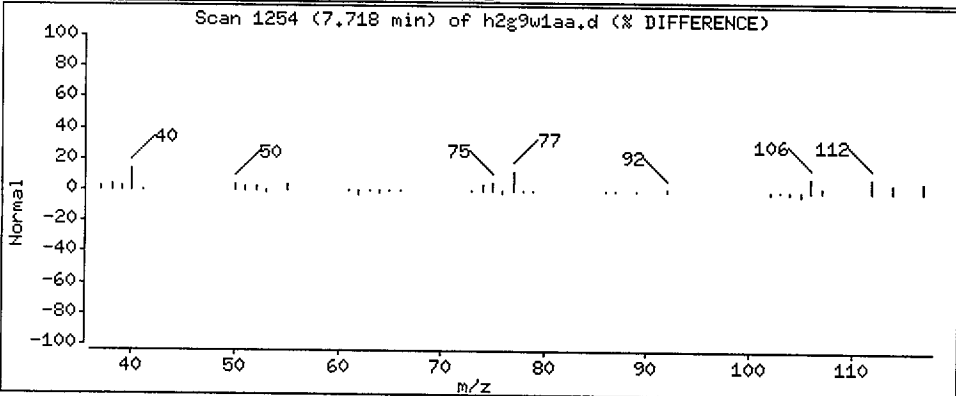
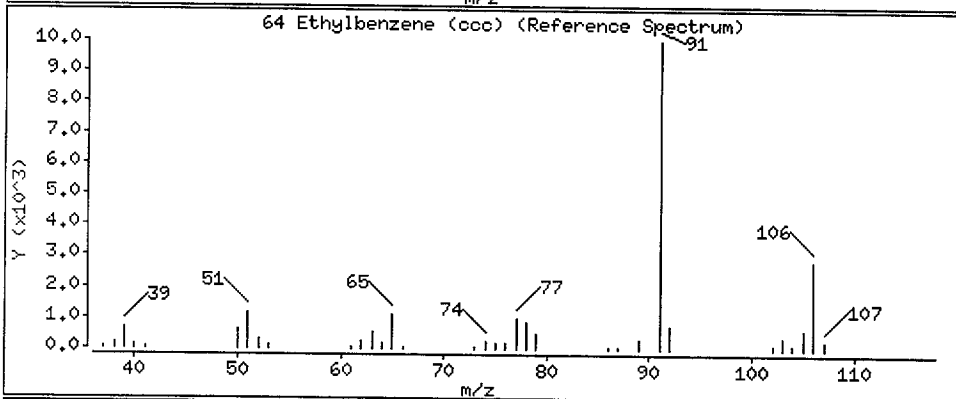
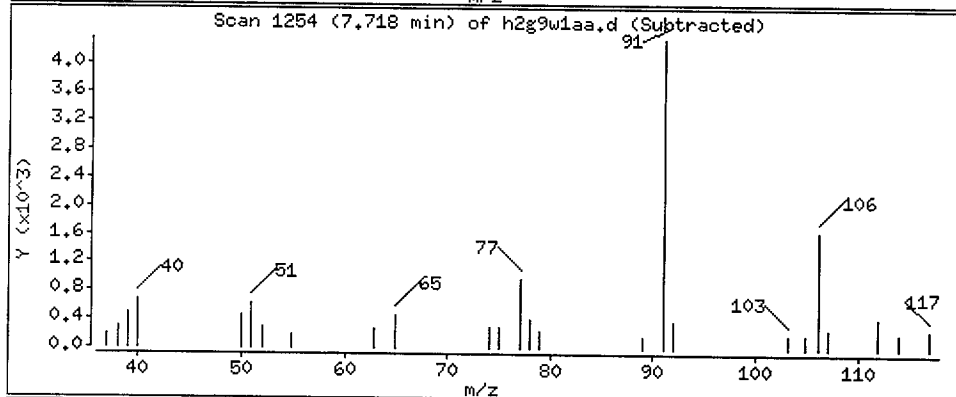
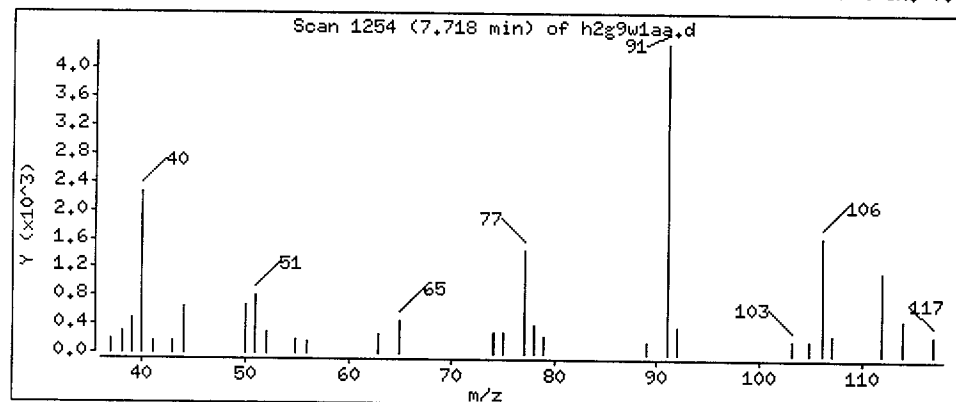
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9W1AA,1,0,,,

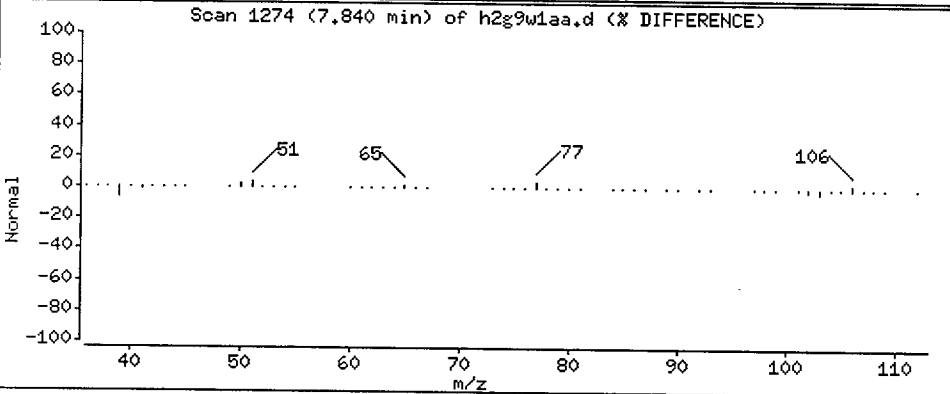
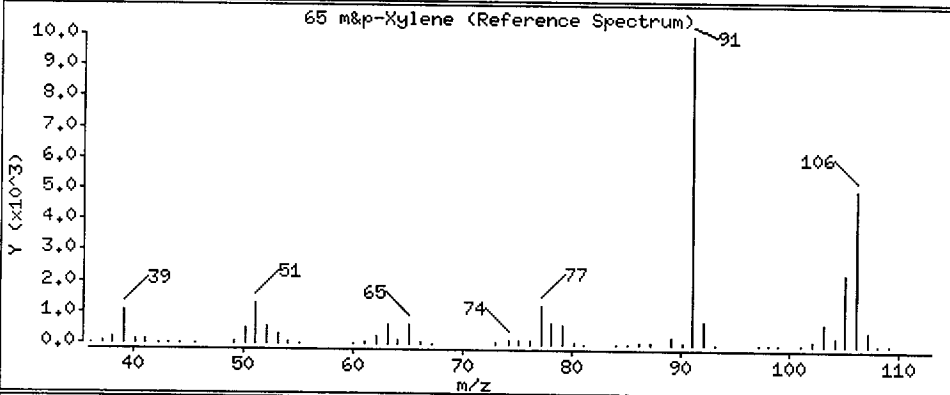
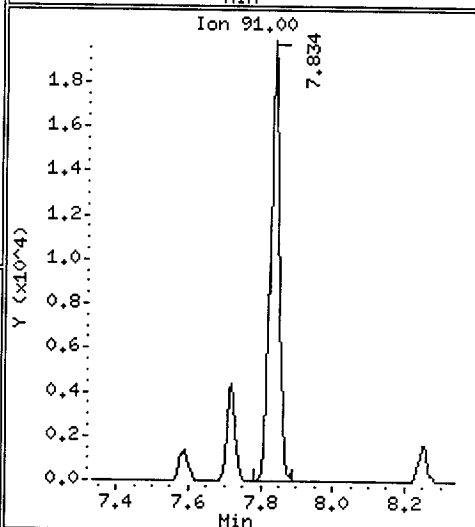
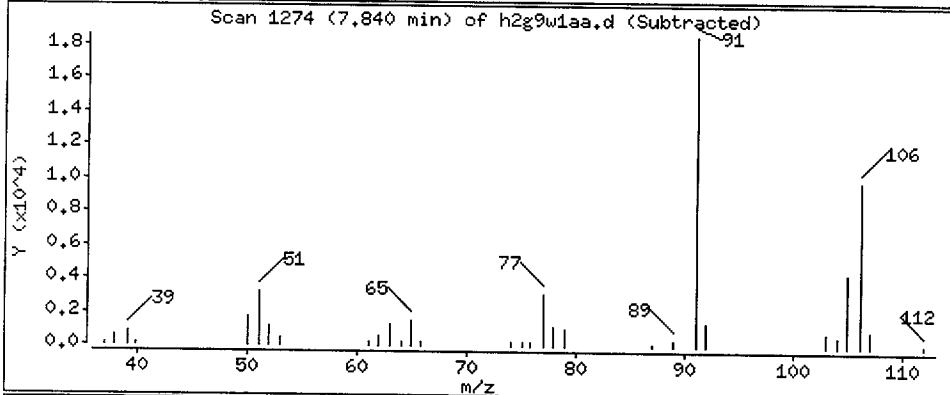
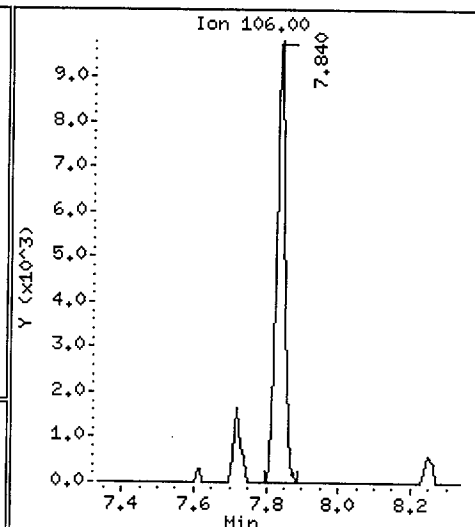
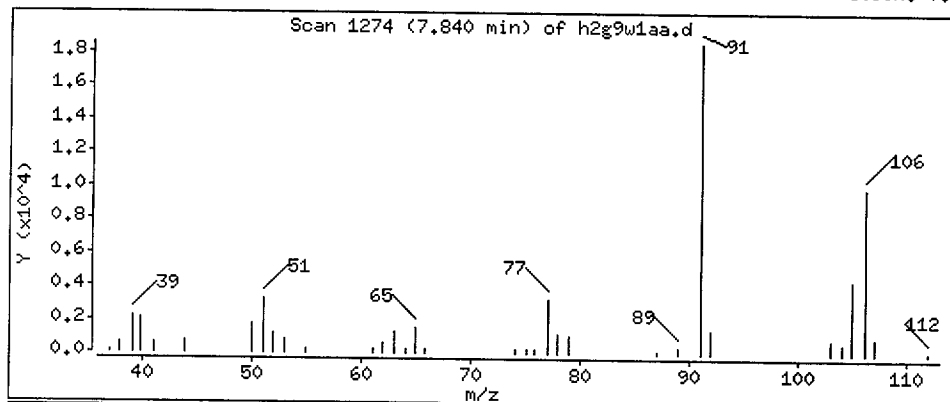
Operator: 22980

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,,,

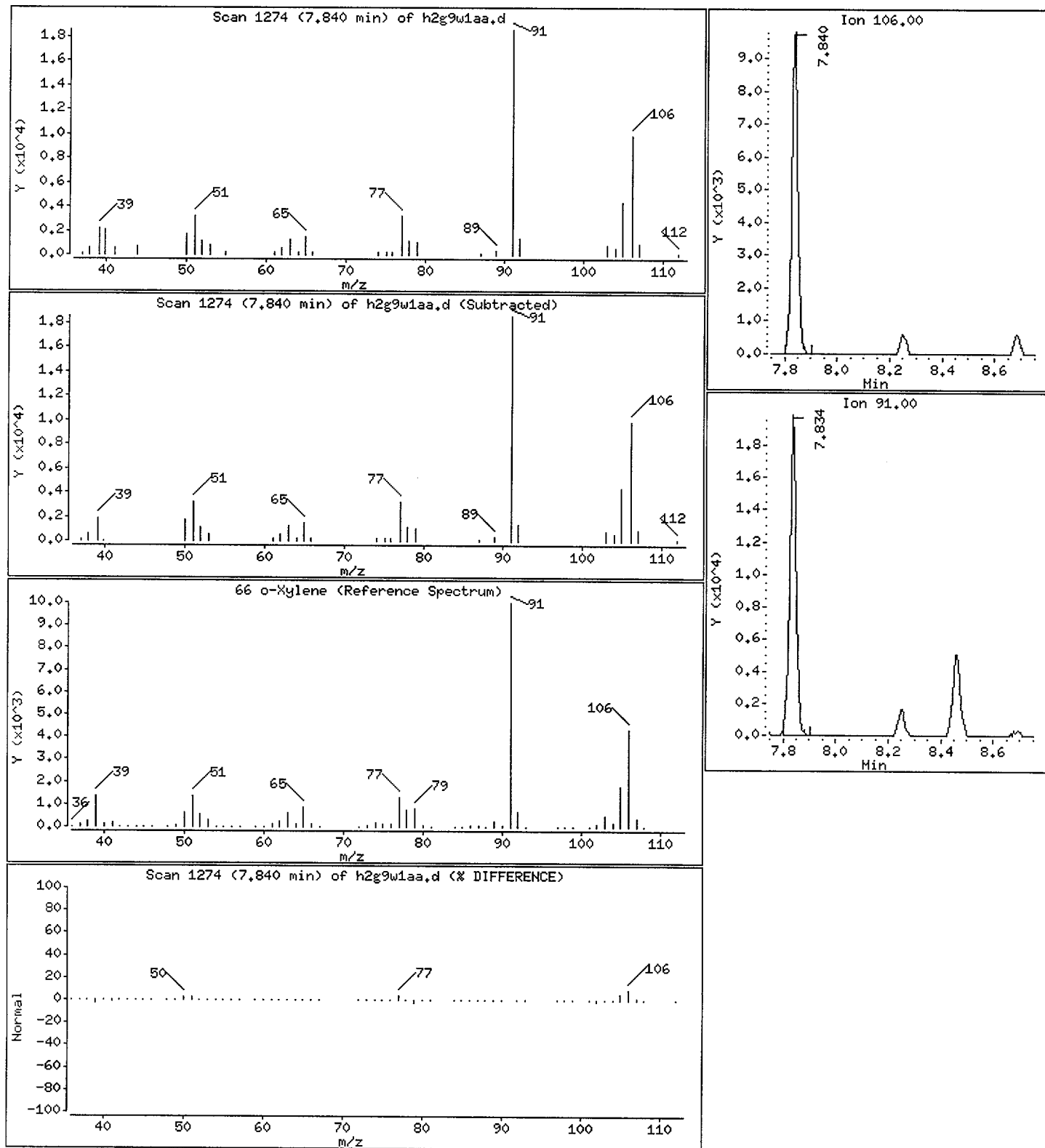
Operator: 22980

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,,,

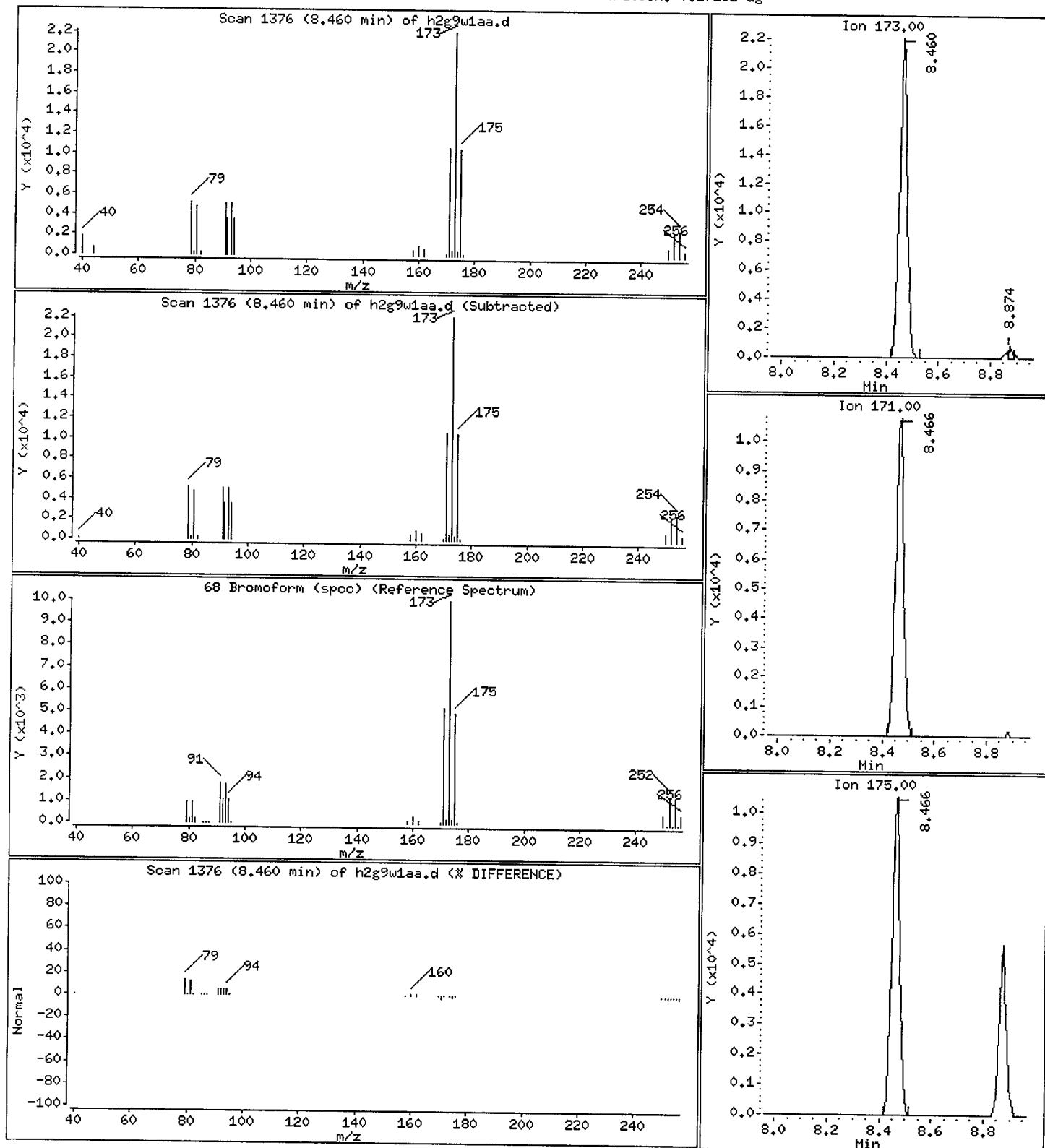
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2C9W1AA,1,0,,,

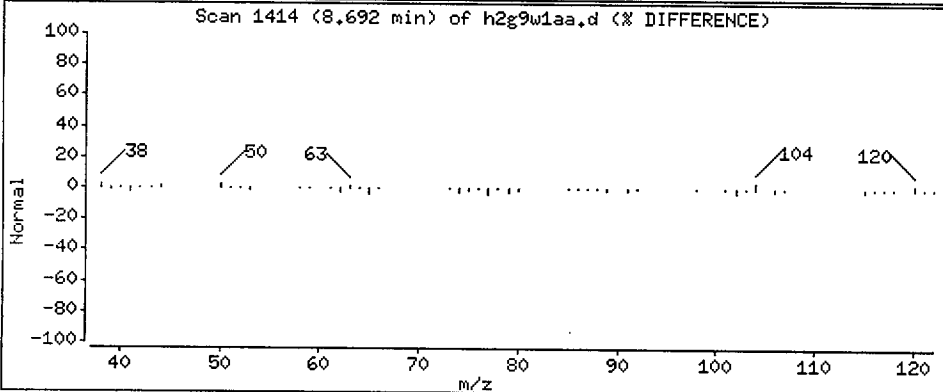
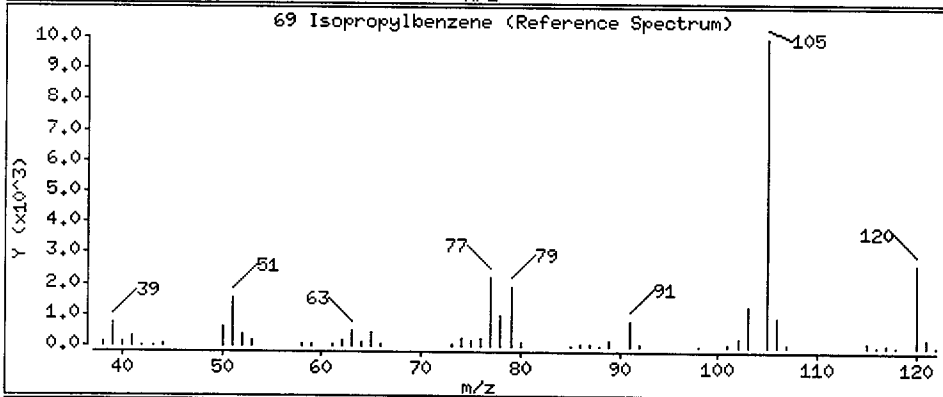
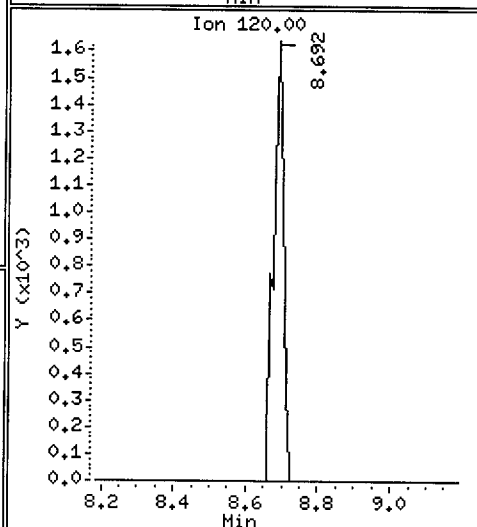
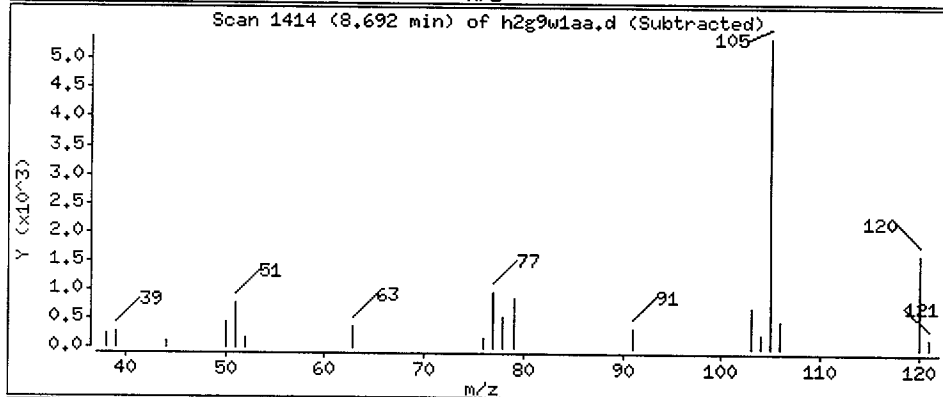
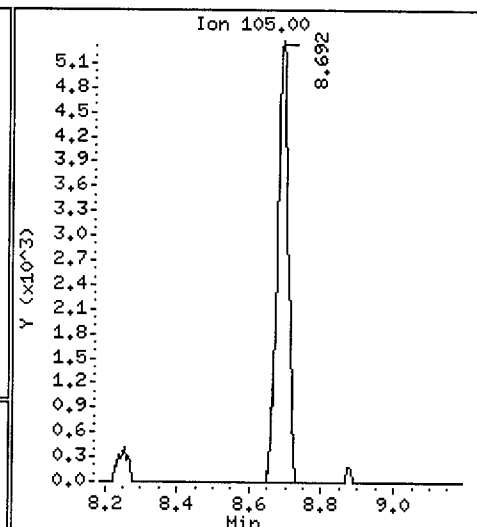
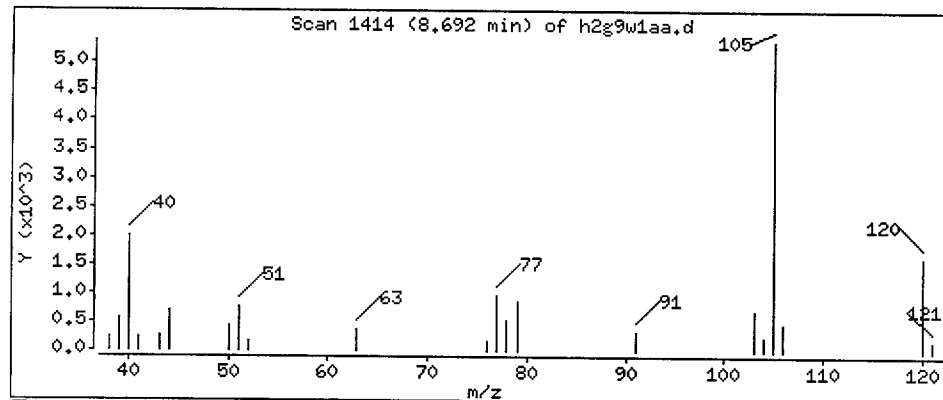
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,,

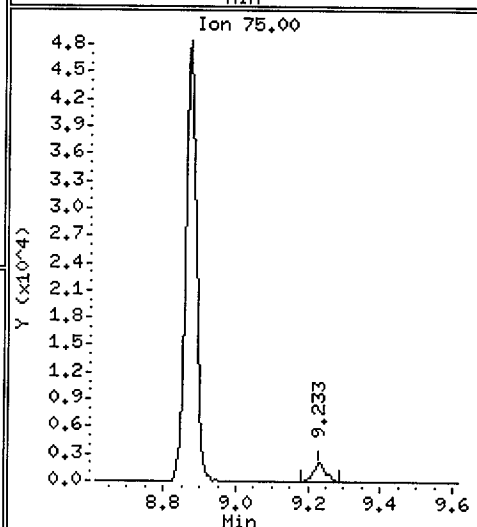
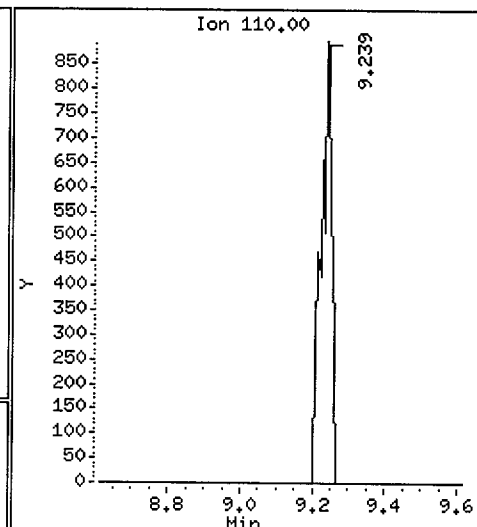
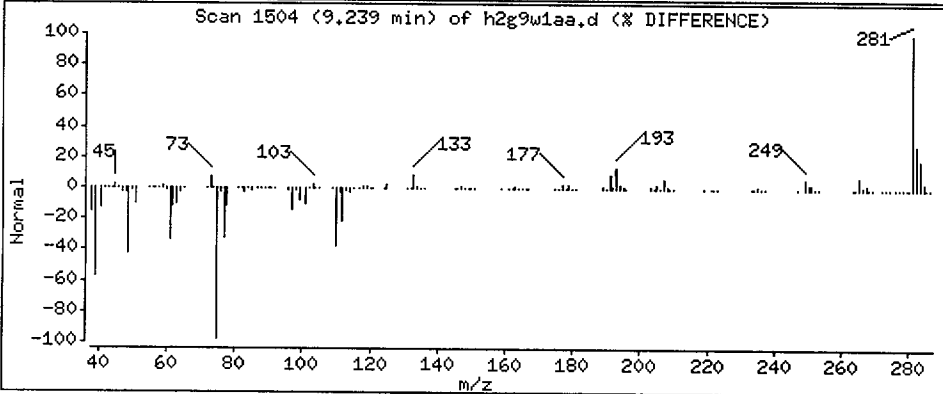
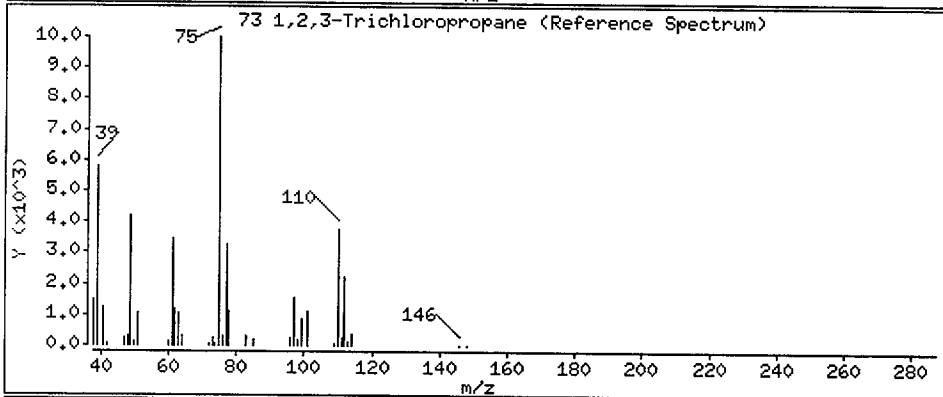
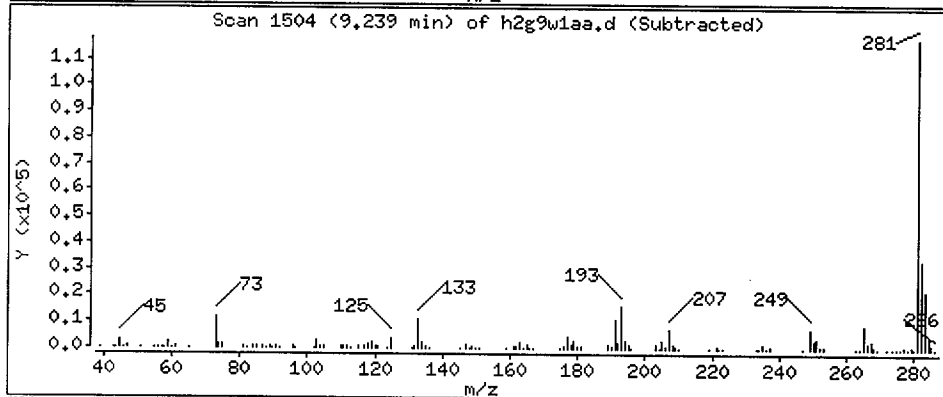
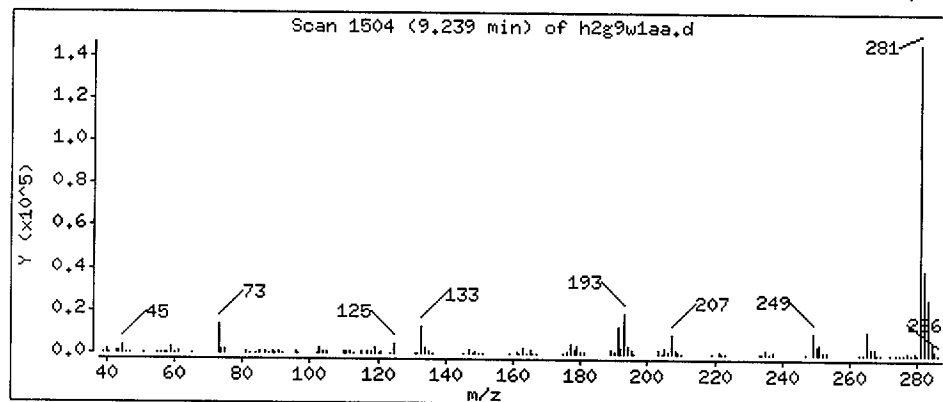
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G9W1AA,1,0,,

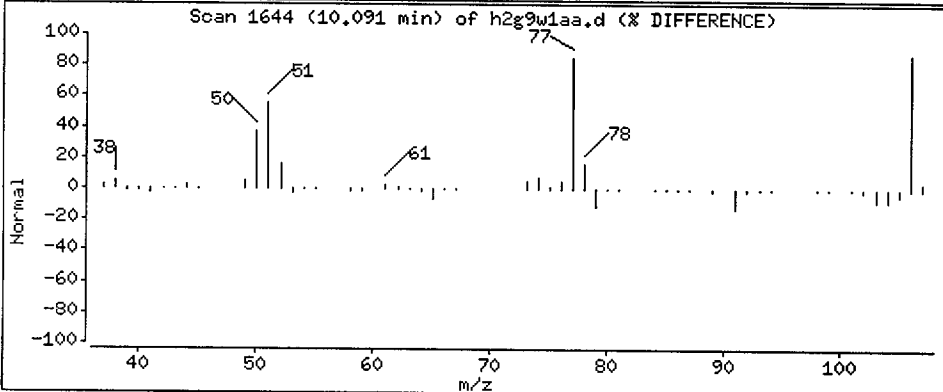
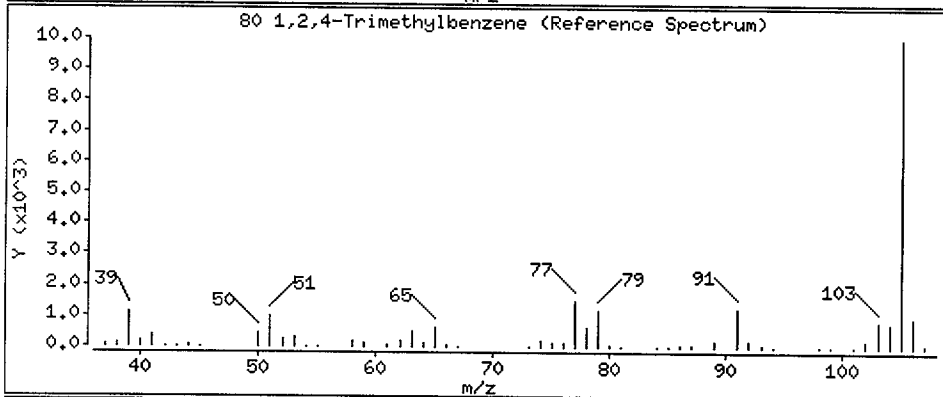
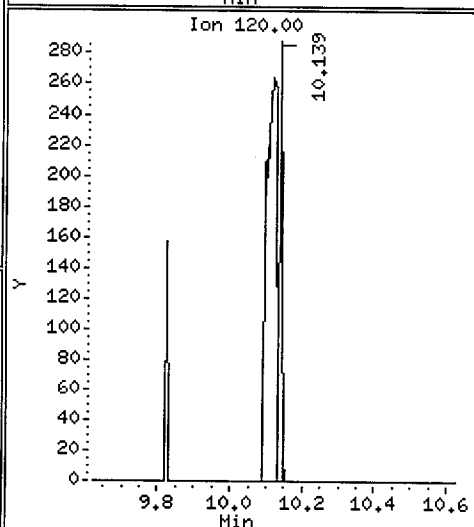
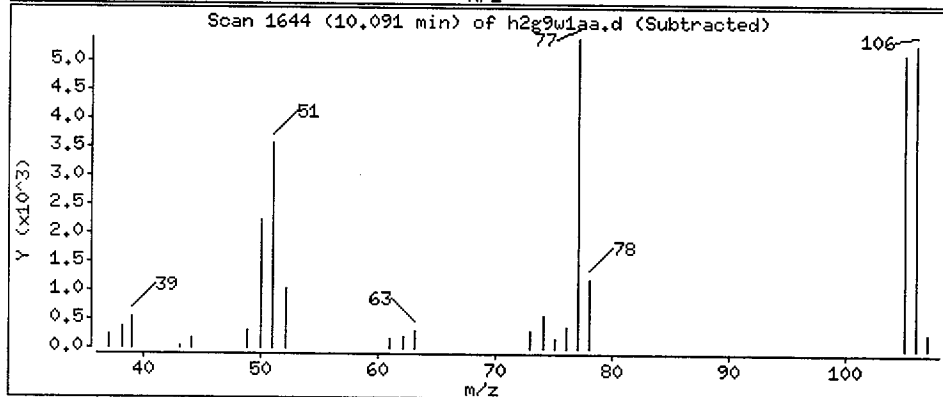
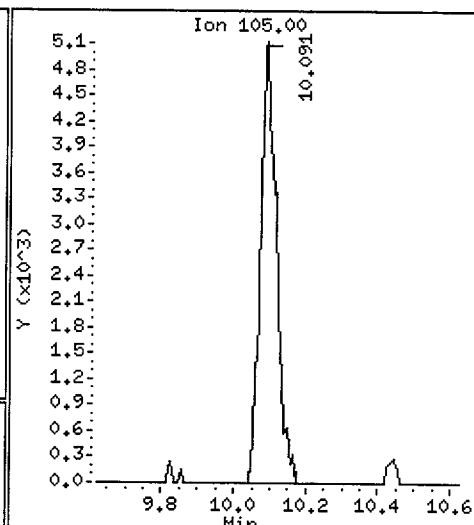
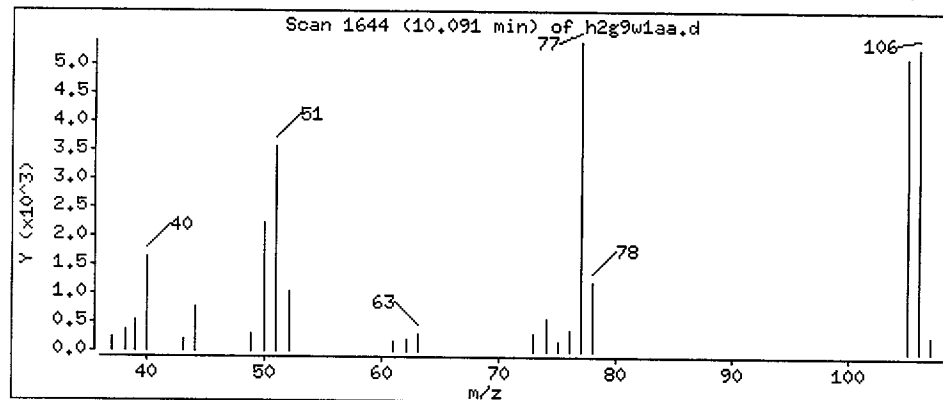
Operator: 22980

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,,,

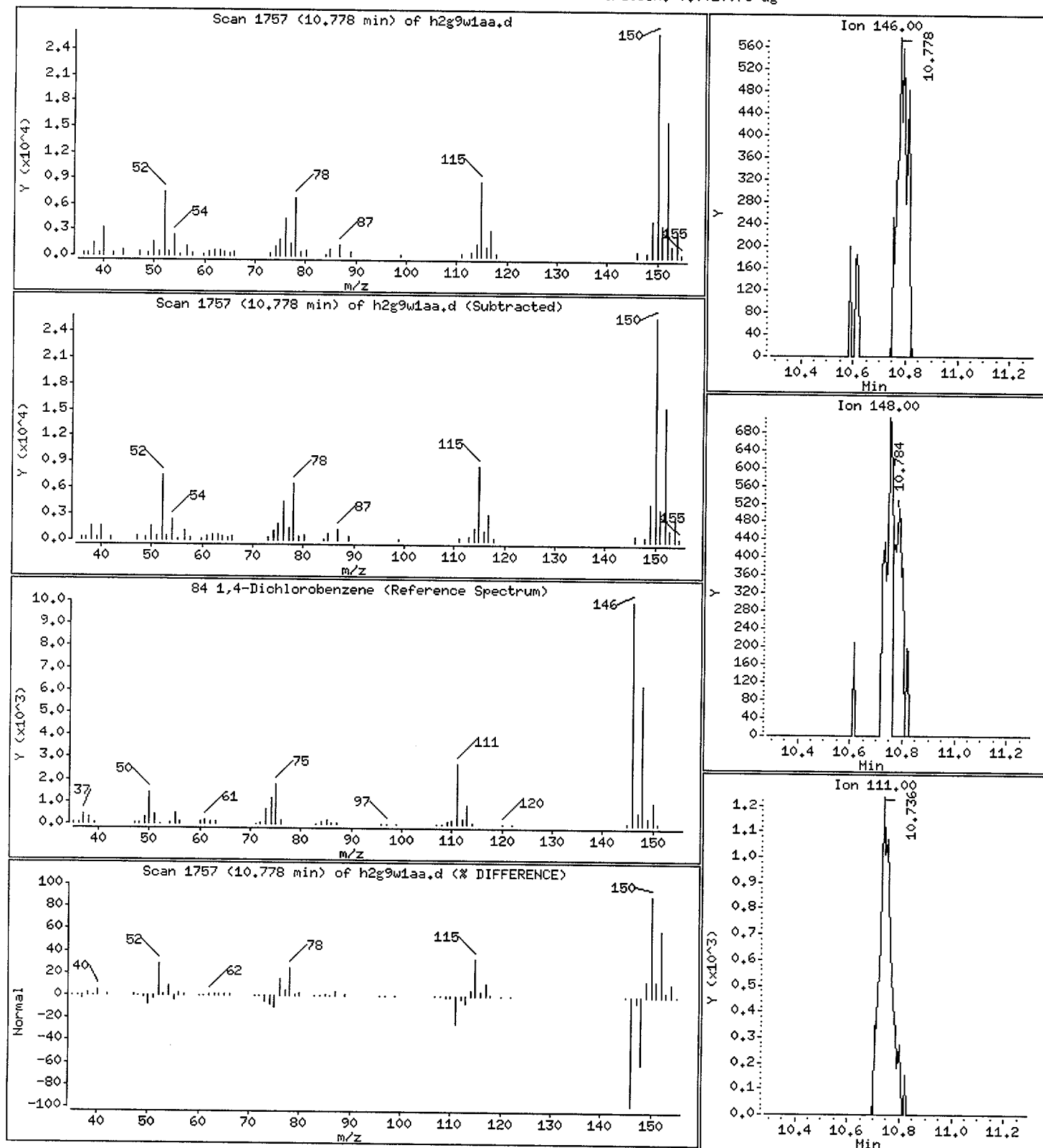
Operator: 22980

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,,,

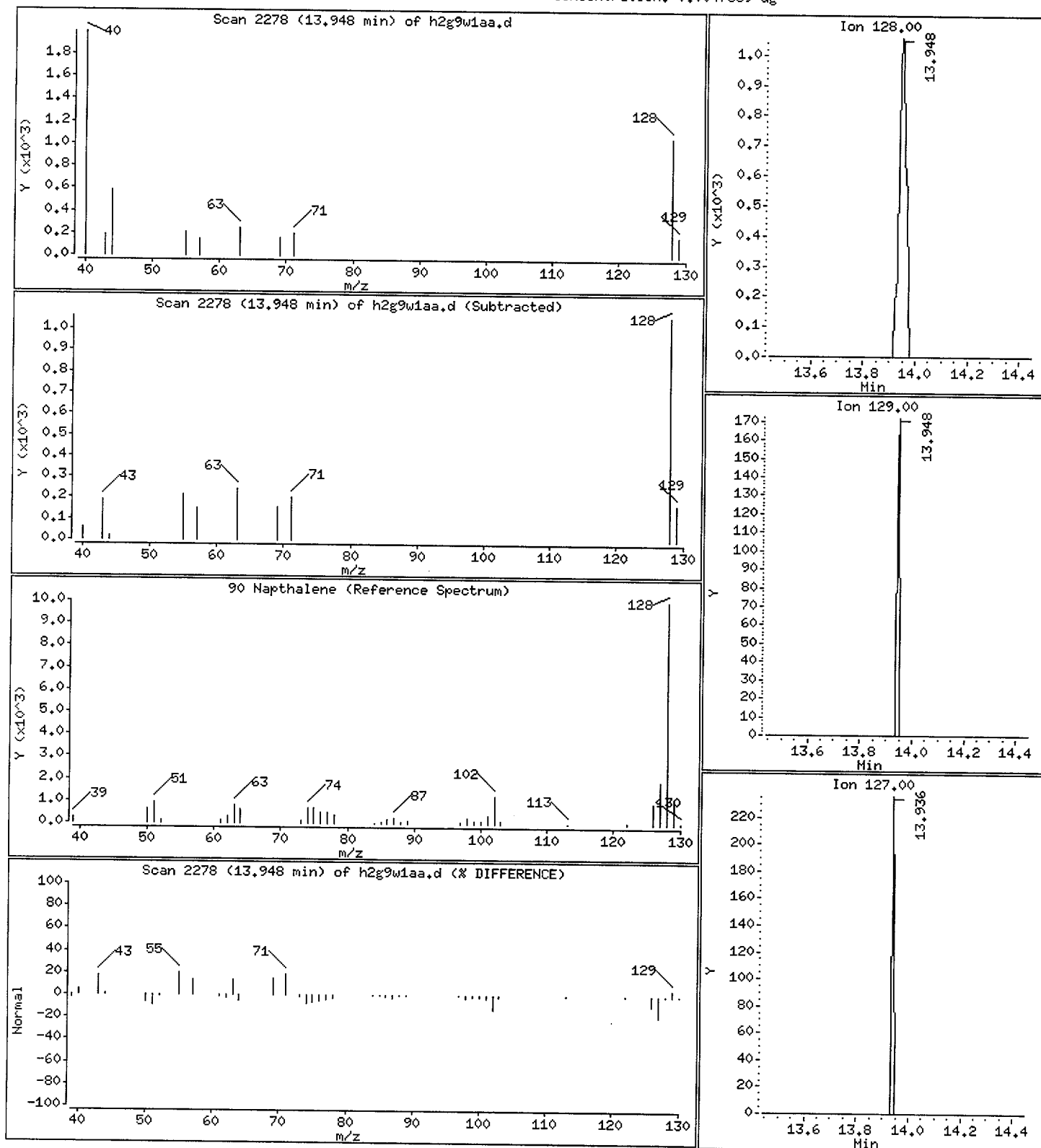
Operator: 22980

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		QUAL	QUANT		CPND #	
		ON-COL(ug/L)	FINAL(ug)		LIBRARY	LIB ENTRY		
=====	=====	=====	=====	=====	=====	=====	=====	
Cyclotetrasiloxane, octamethyl-	9.239	414498	7.15796999	0.17895	90	NIST02.1	115617	3
Benzeneethanamine, N-[(pentafluorophenyl	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,,,

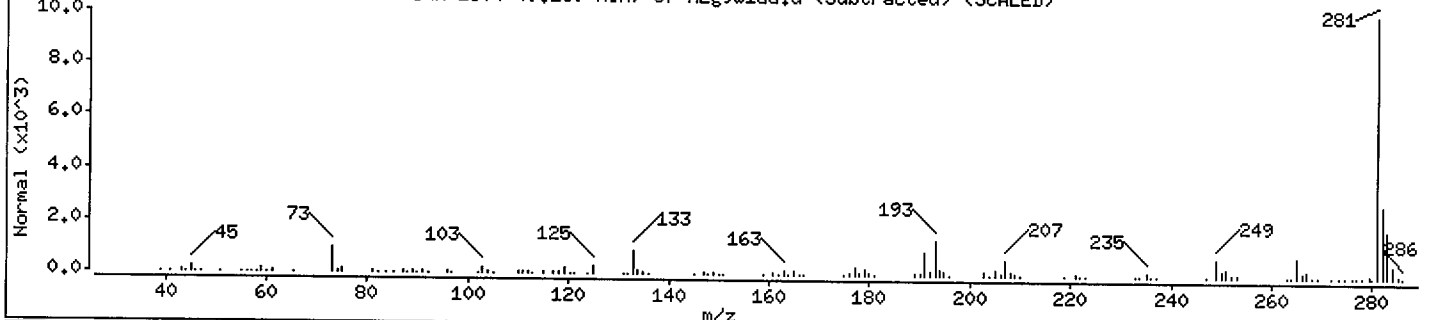
Operator: 22980

Column phase: J+W 624

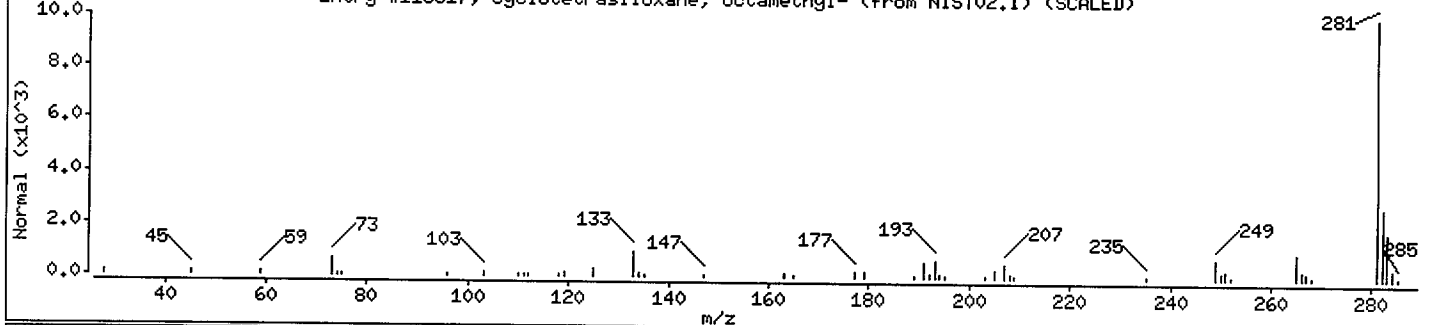
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST02.1	115617	90	C ₈ H ₂₄ O ₄ Si ₄	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST02.1	106923	53	C ₂₁ H ₁₅ N	281
4H-1,2,4-Triazole-3-thiol, 4-allyl-5-(1-	31803-13-1	NIST02.1	106786	47	C ₁₆ H ₁₅ N ₃ S	281

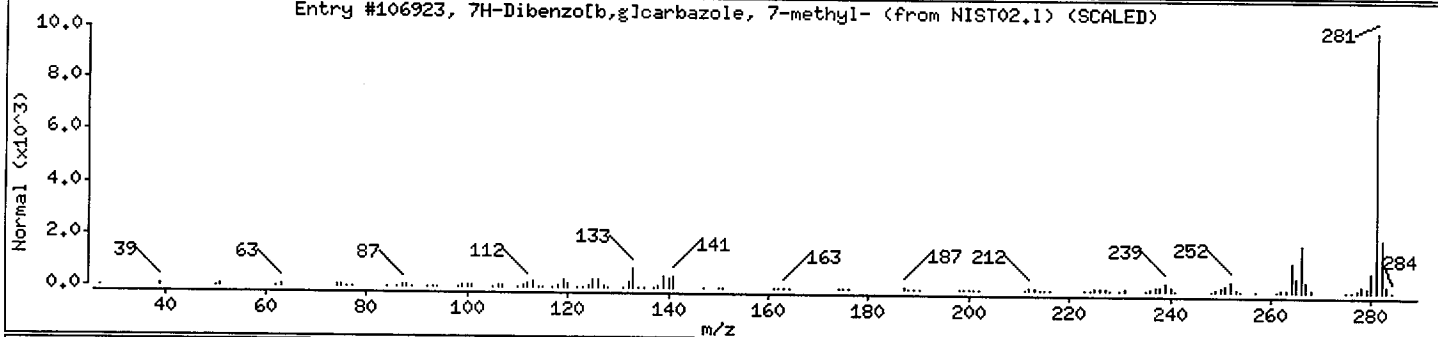
Scan 1504 (9.239 min) of h2g9w1aa.d (Subtracted) (SCALED)



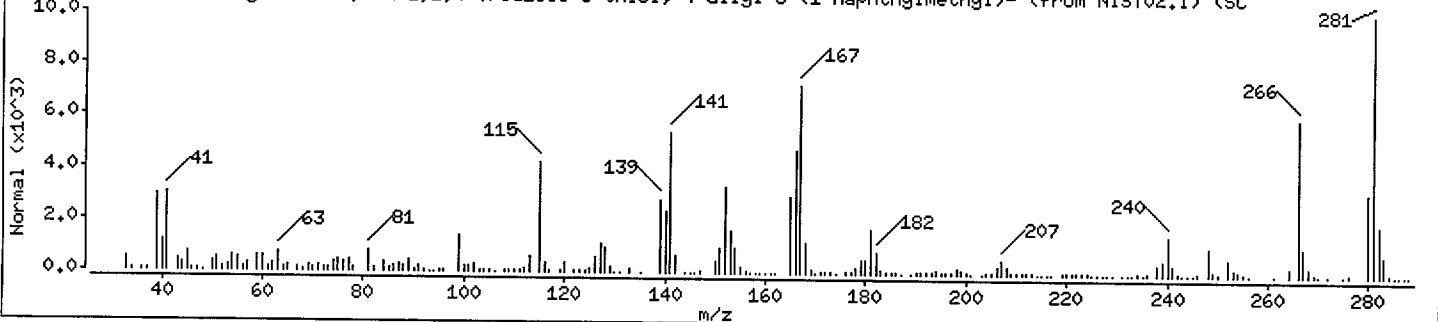
Entry #115617, Cyclotetrasiloxane, octamethyl- (from NIST02.1) (SCALED)



Entry #106923, 7H-Dibenzo[b,g]carbazole, 7-methyl- (from NIST02.1) (SCALED)



Entry #106786, 4H-1,2,4-Triazole-3-thiol, 4-allyl-5-(1-naphthylmethyl)- (from NIST02.1) (SCALED)



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

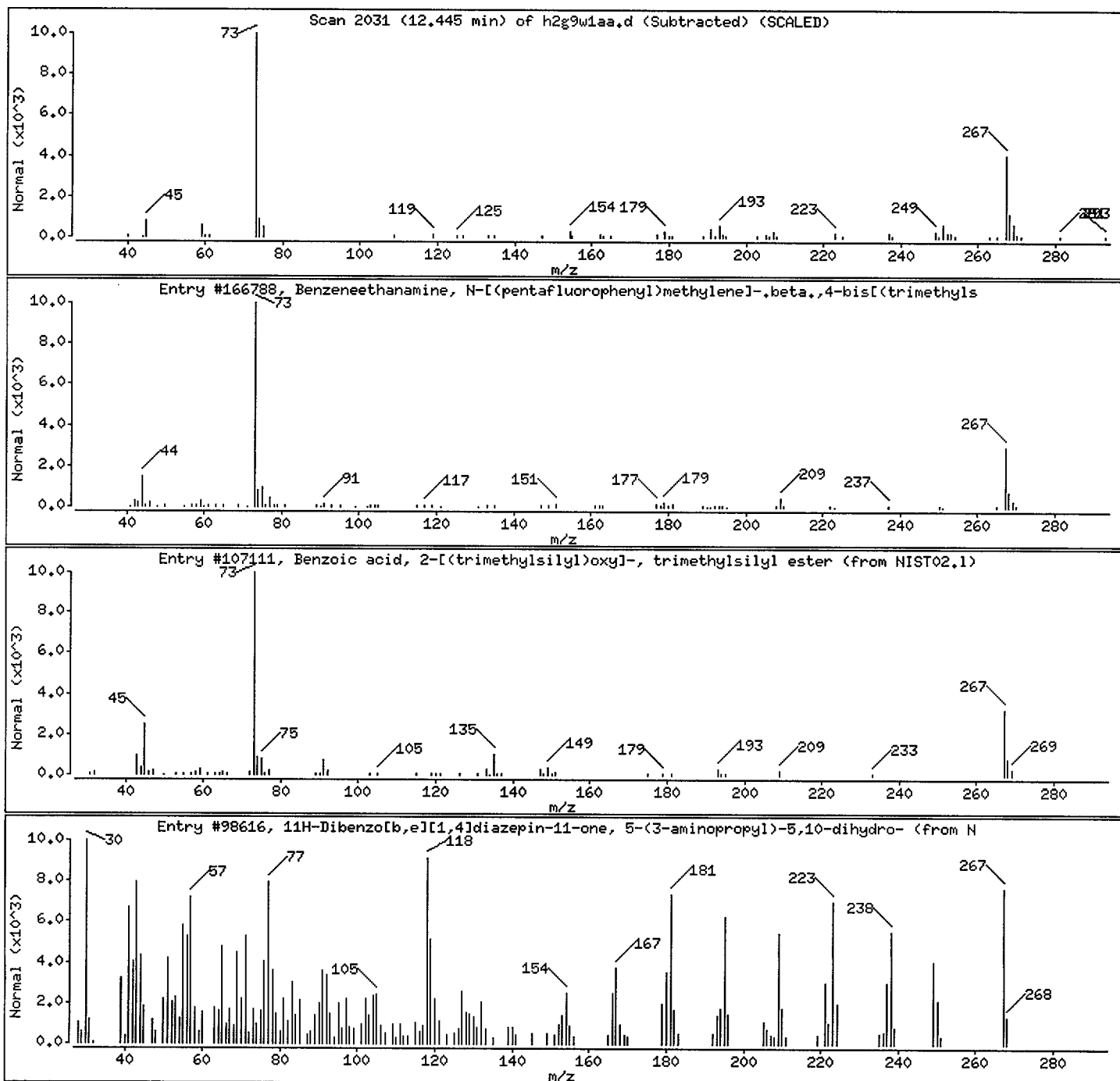
Sample Info: H2G9W1AA,1,0,,,

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)methylene]-, beta, 4-bis[(trimethylsilyl)methoxy]-, 2,6-dimethyl-	55429-85-1	NIST02.1	166788	56	C ₂₁ H ₂₆ F ₅ N ₀ O ₂ S ₀	375
Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester (from NIST02.1)	3789-85-3	NIST02.1	107111	50	C ₁₃ H ₂₂ O ₃ Si ₂	282
11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-(3-aminopropyl)-5,10-dihydro-	13450-73-2	NIST02.1	98616	46	C ₁₆ H ₁₇ N ₃ O	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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	(ug/L)	(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 reprint for (u)	
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 reprint for (u)	

Data File: /chem/gcms/mz.i/Z040706.b/h2g911aa.d

Report Date: 07-Apr-2006 17:02

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ug/L)	(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	

XW 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/L)	(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						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/L)	(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		SAMPLE	%DIFF
		LOWER	UPPER		
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		SAMPLE	%DIFF
		LOWER	UPPER		
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 Client SDG: H6D030169
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: H2G911AA Client Smp ID: G-3009-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	0.25814	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/2040706.b/h2g911aa.d

Date : 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

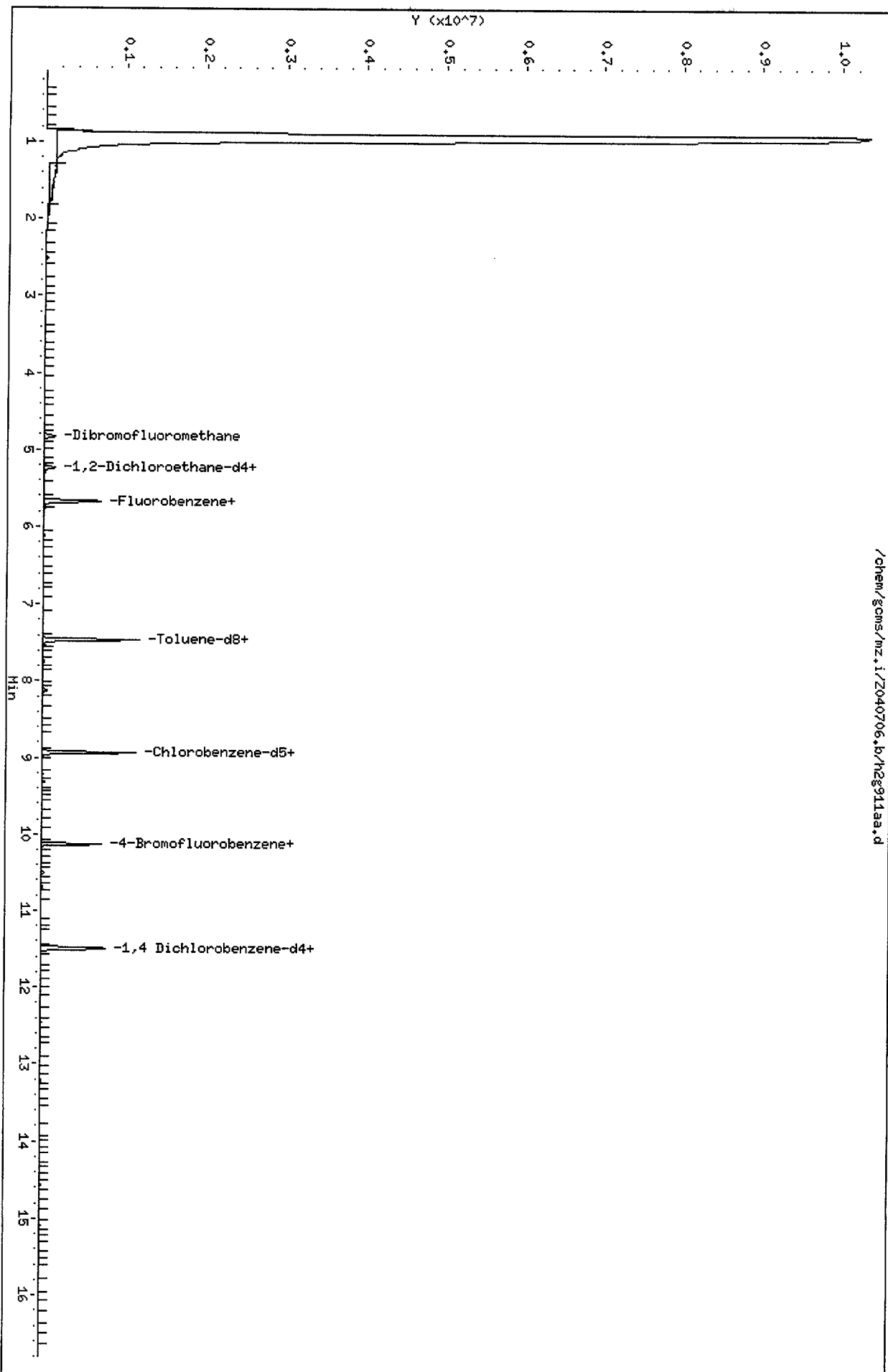
Sample Info: H2G911AA,1,0,,

Column phase: J+H 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,,

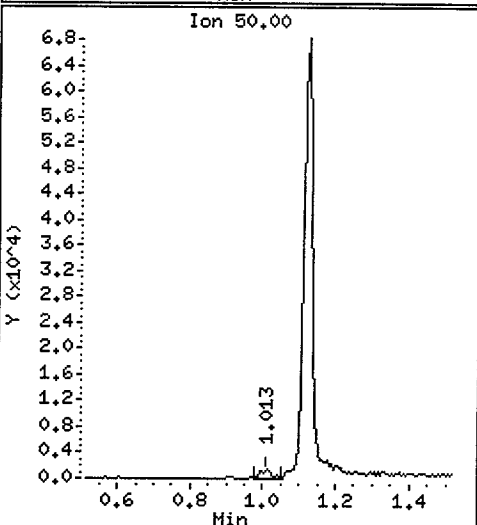
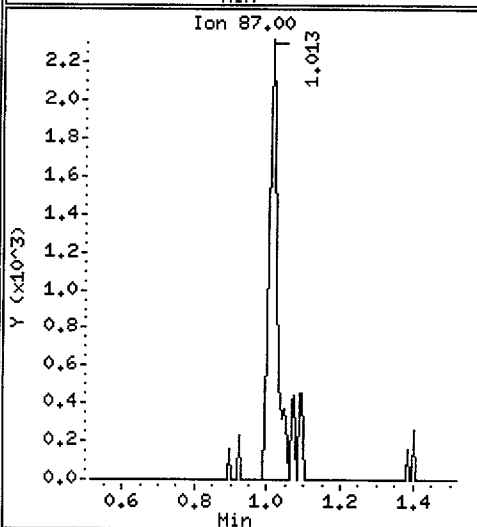
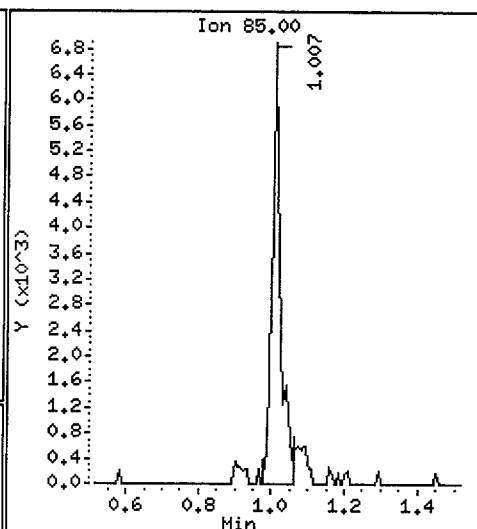
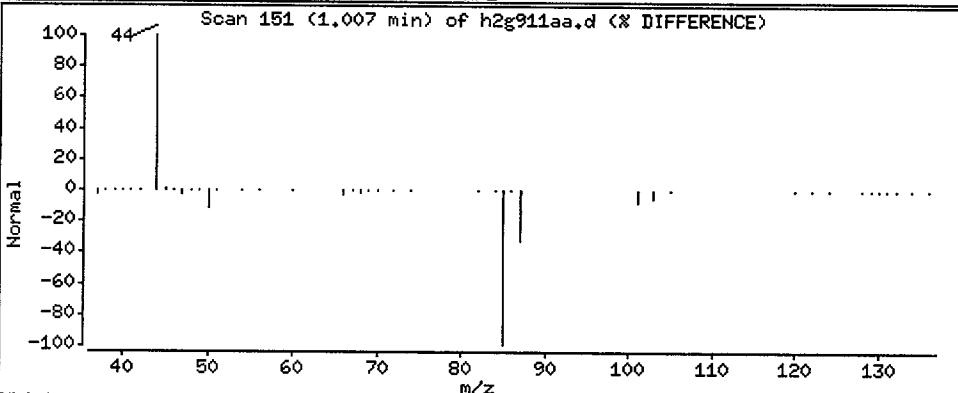
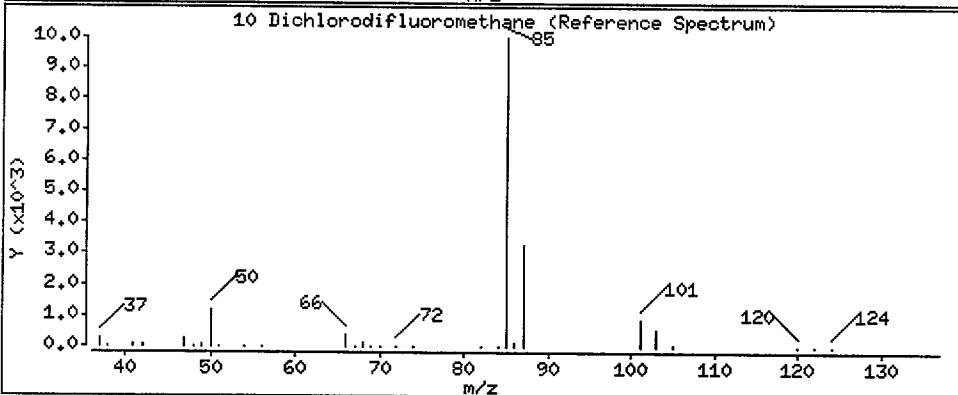
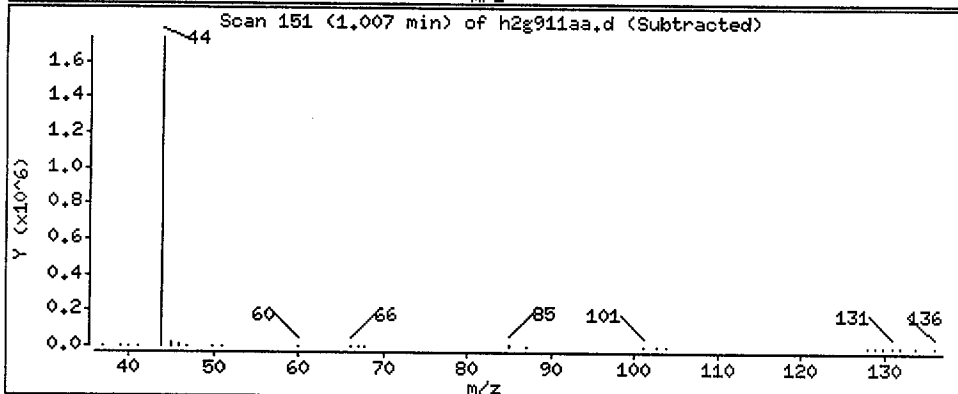
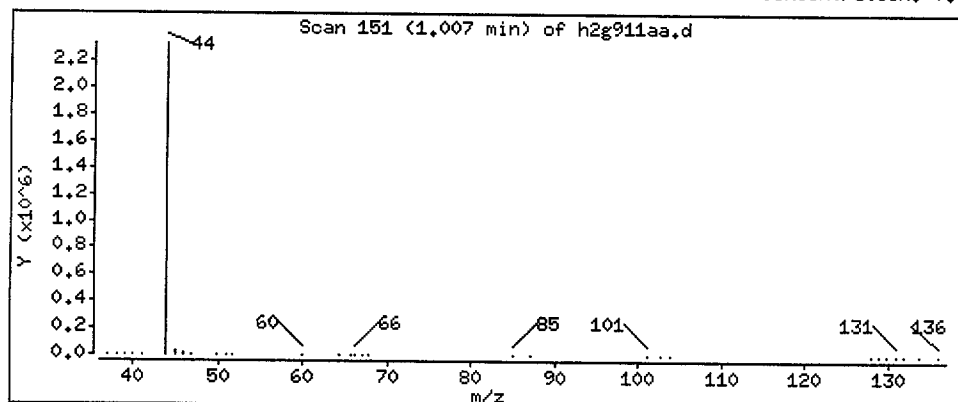
Operator: 22980

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,,

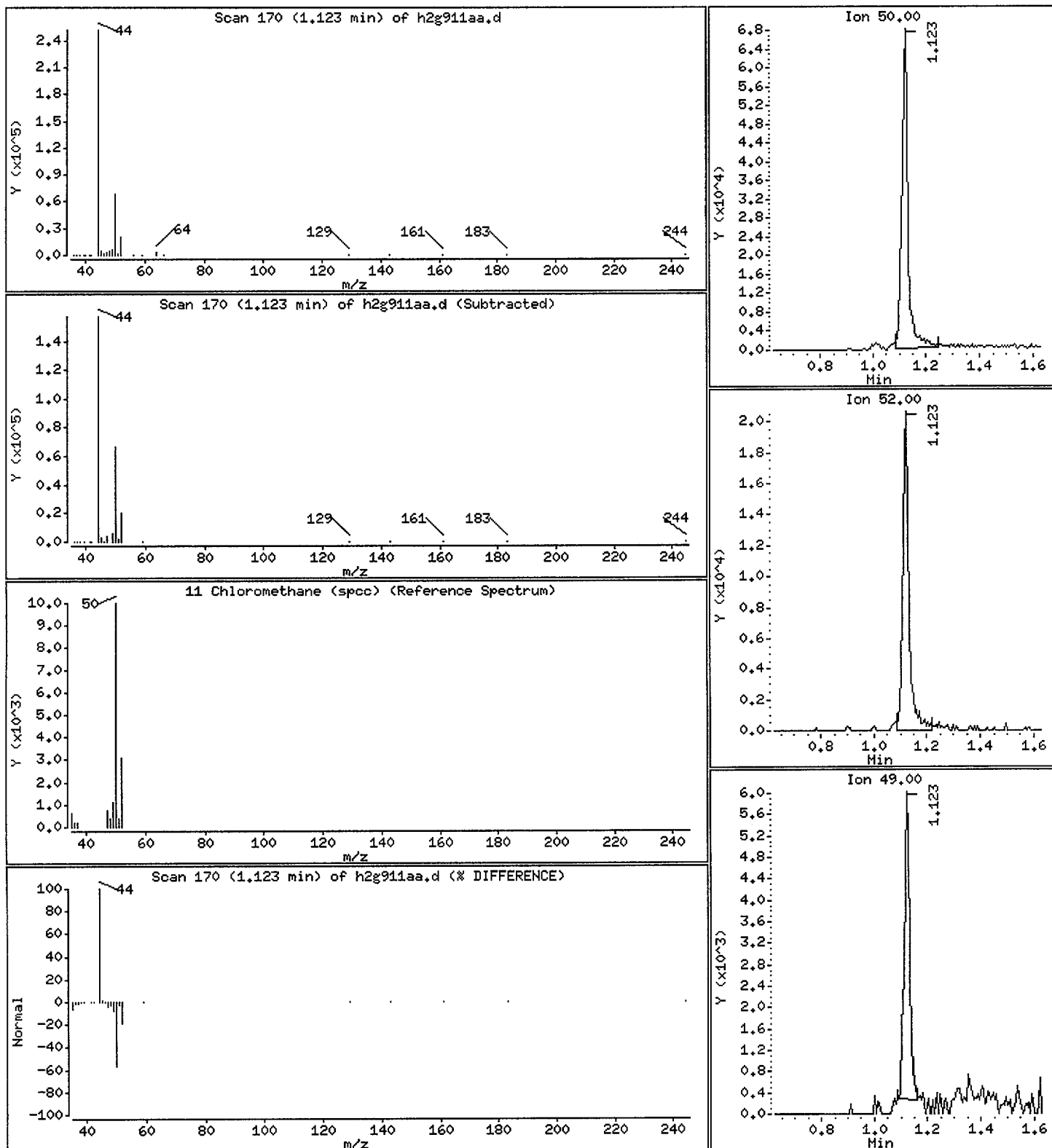
Operator: 22980

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,,

Column phase: J+W 624

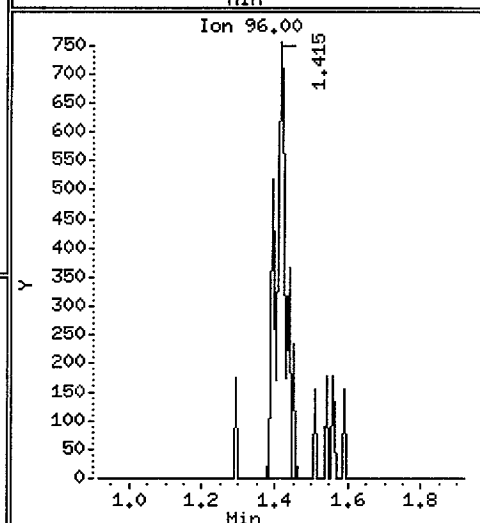
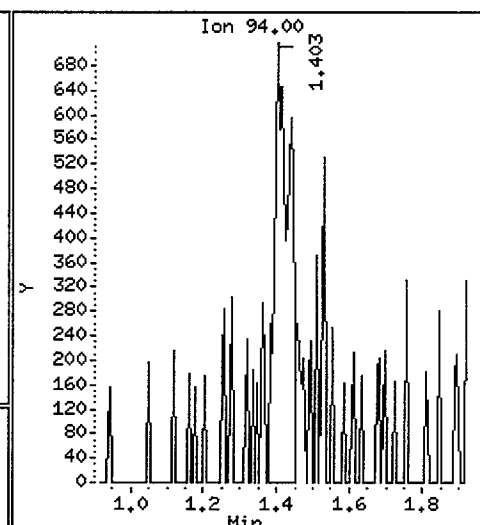
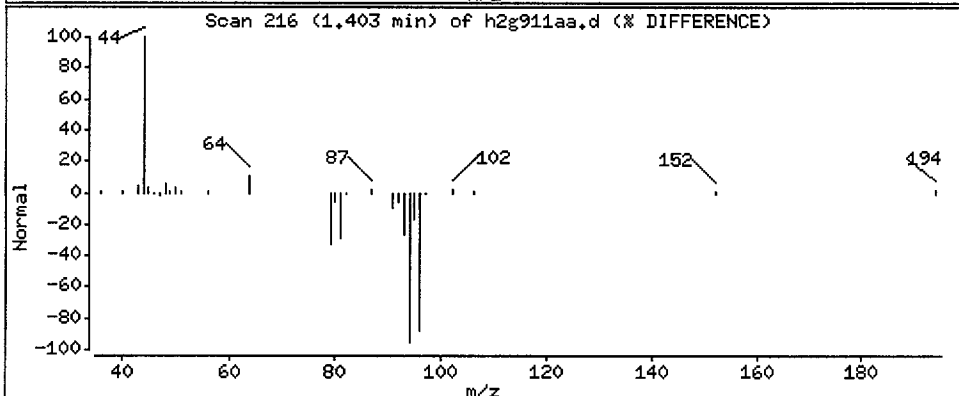
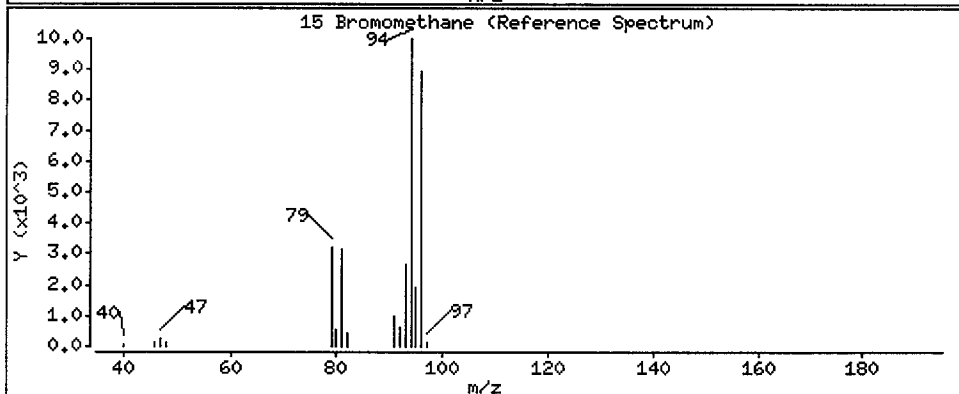
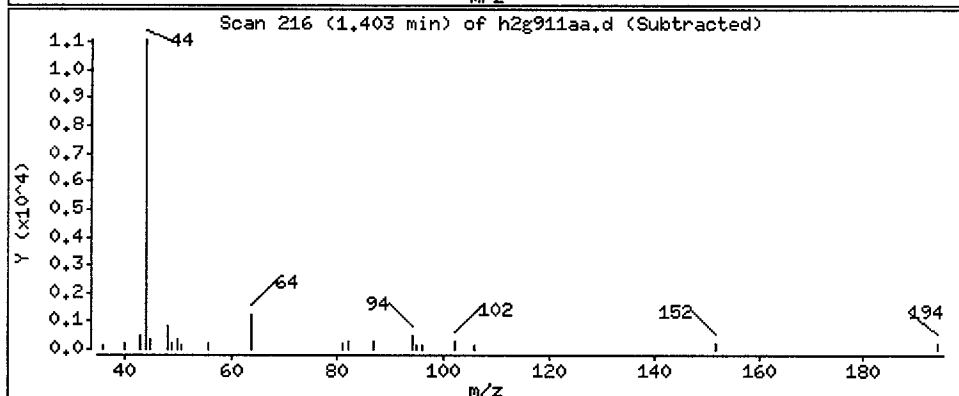
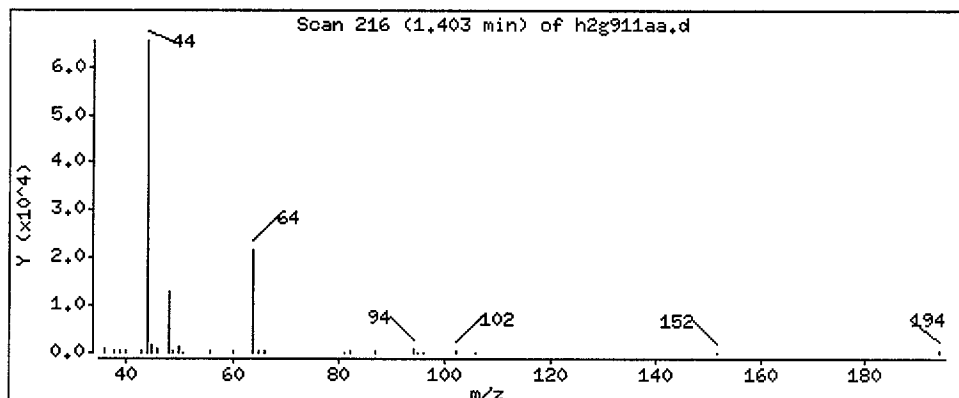
Operator: 22980

Column diameter: 0.18

Concentration: 0.028028 ug

2004-14-06
①

15 Bromomethane



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,,

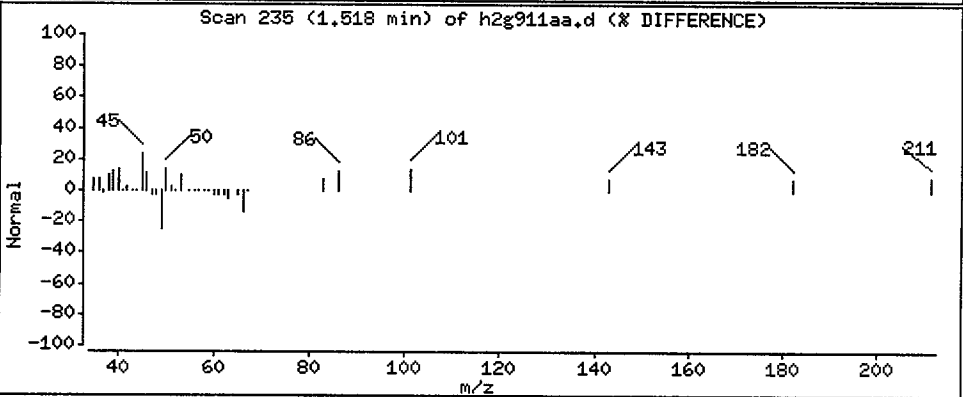
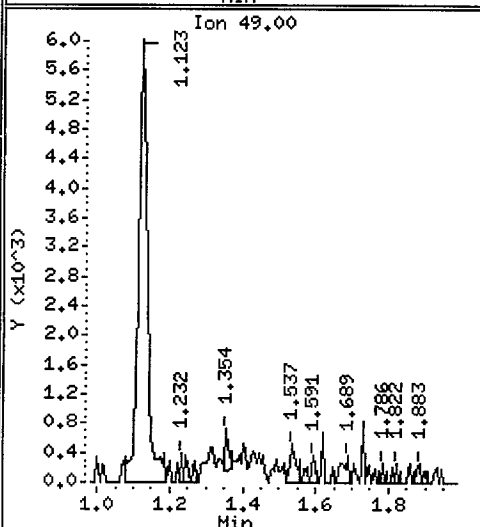
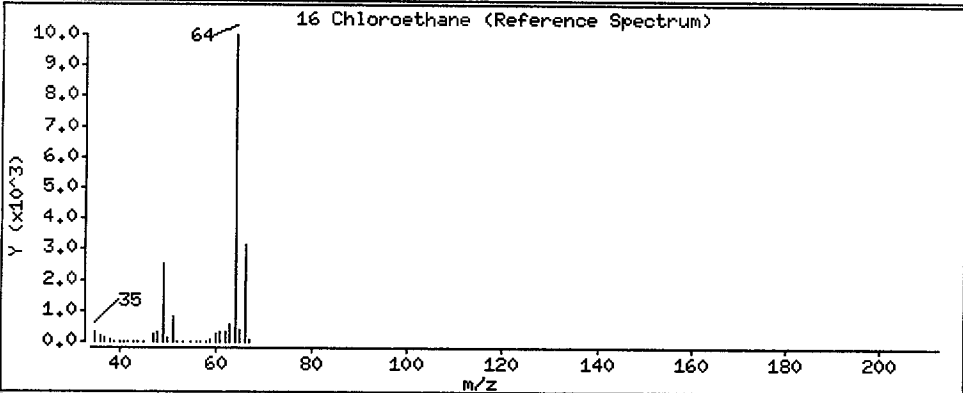
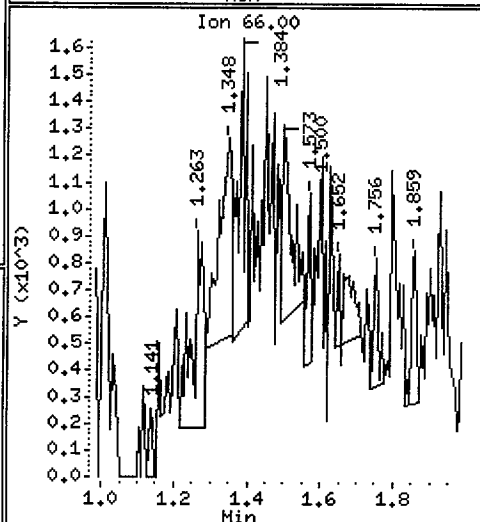
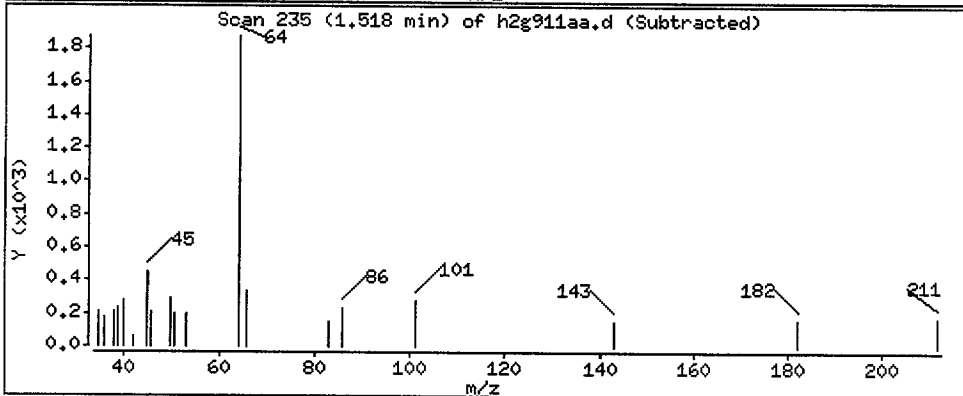
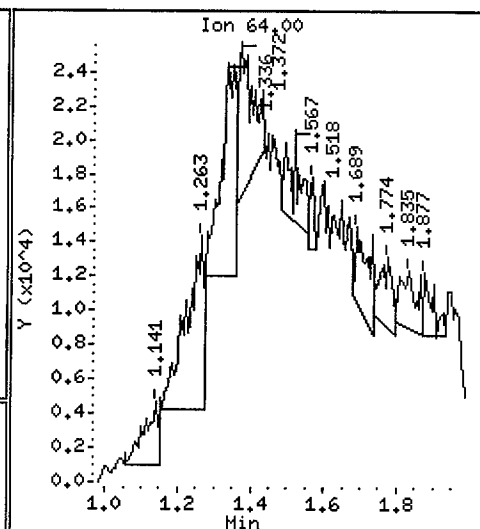
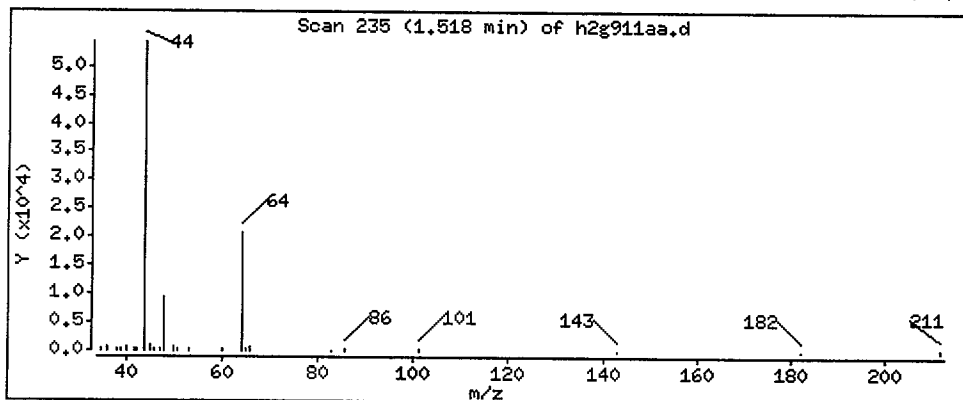
Operator: 22980

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,,

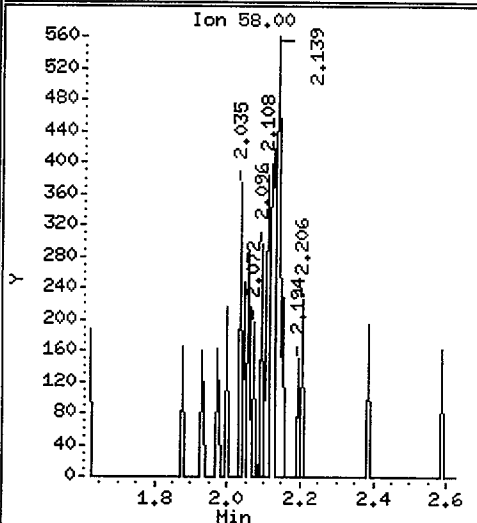
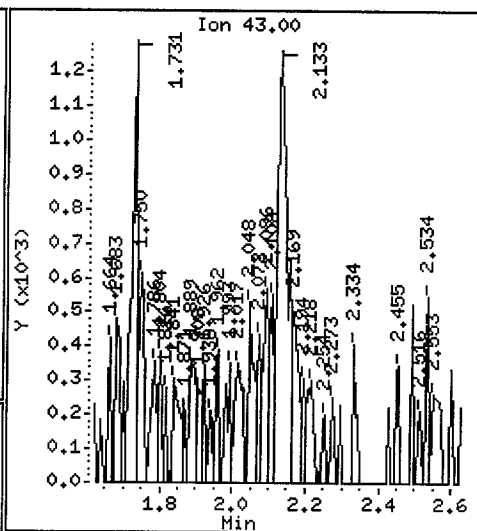
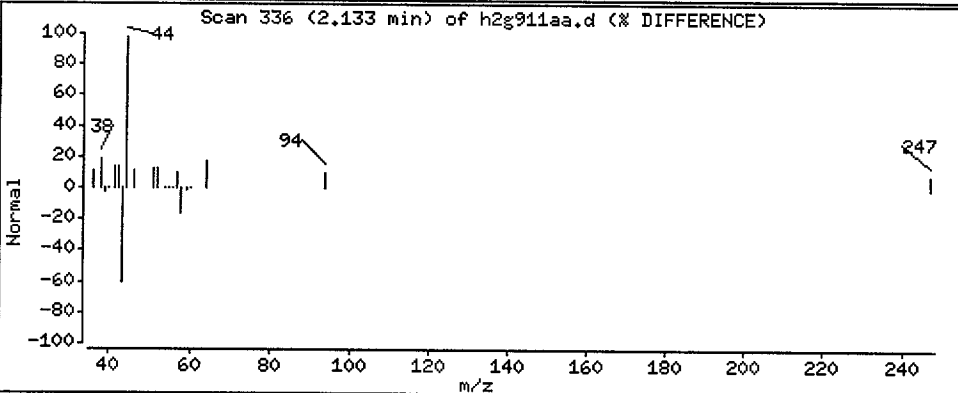
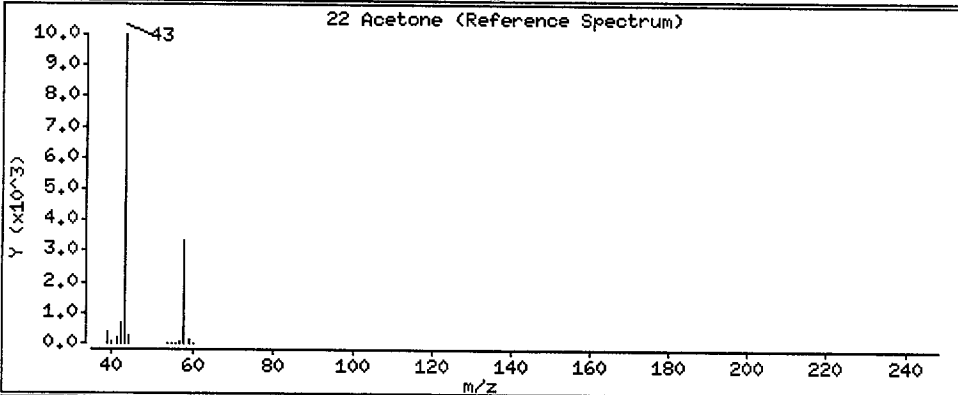
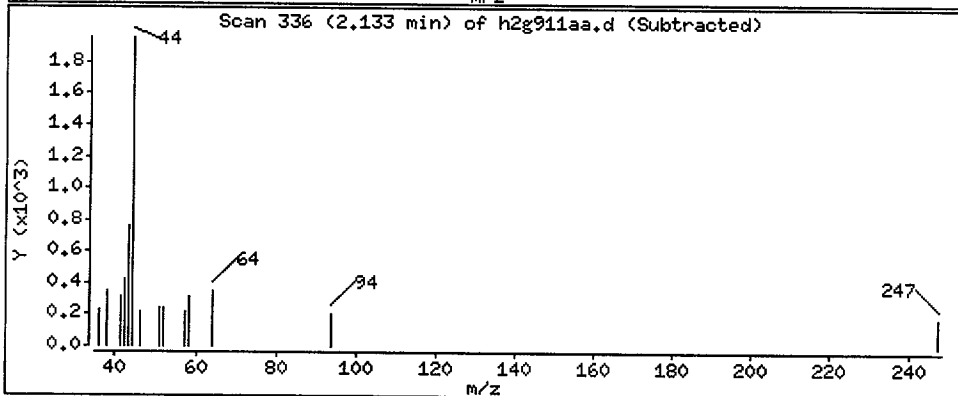
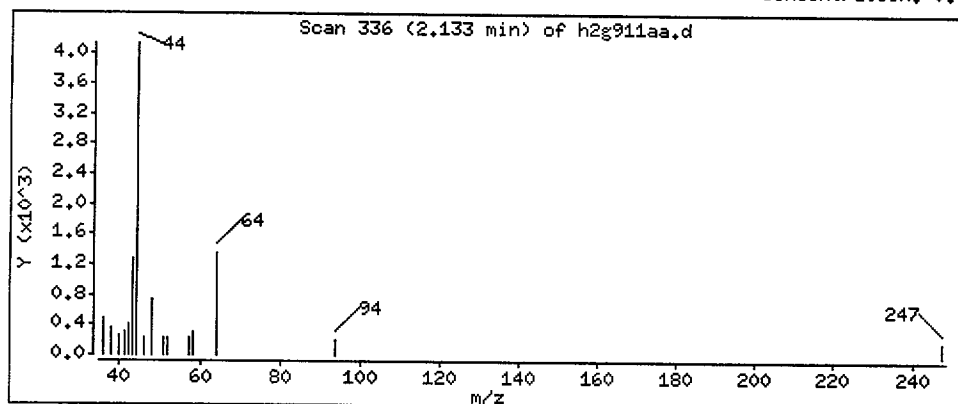
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

22 Acetone

Concentration: 0.097036 ug



Data File: /chem/gcms/mz.i/2040706.b/h2g911aa.d

Date: 07-APR-2006 16:44

Client ID: G-3009-R2-VOST PAIR

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

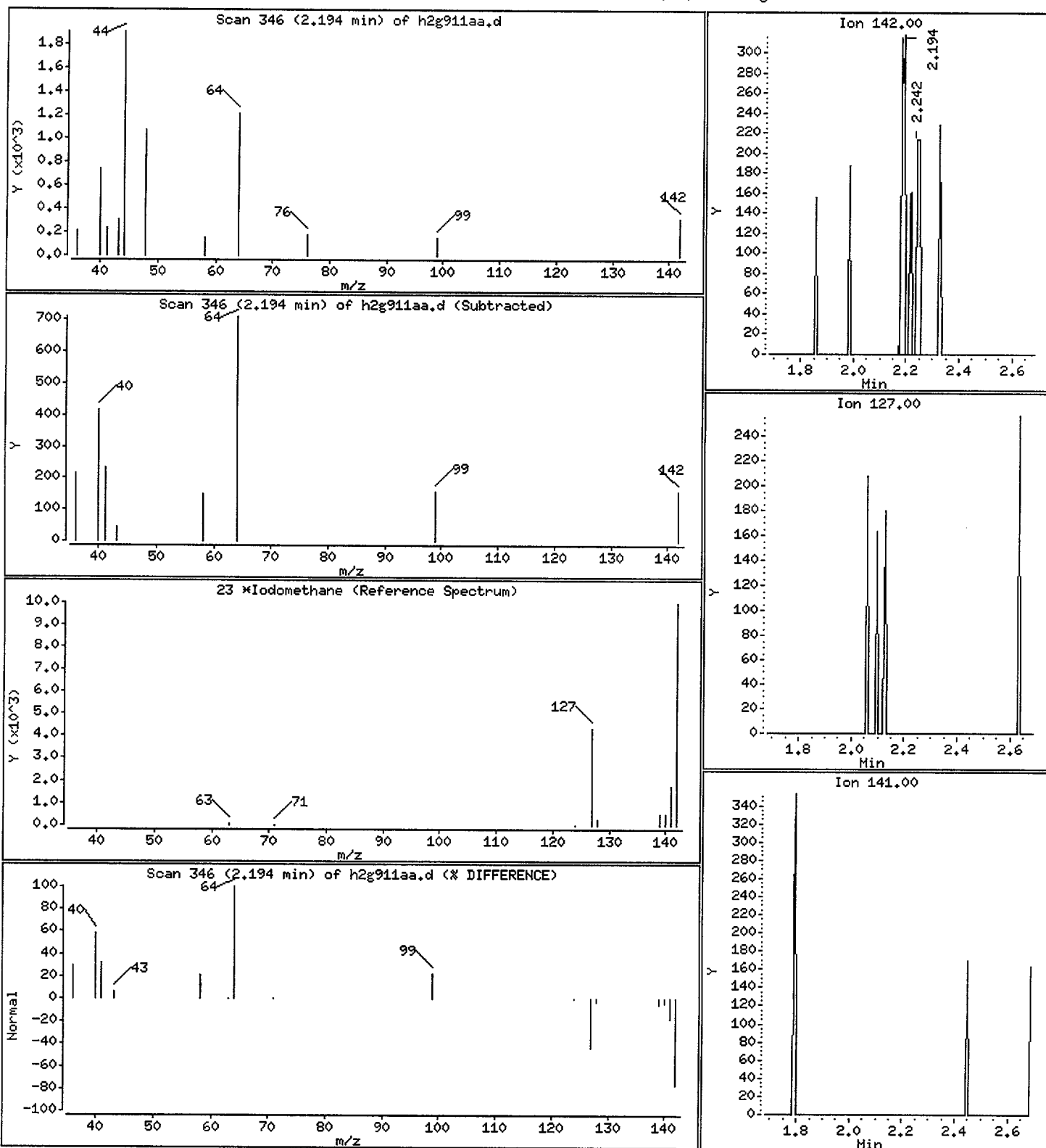
Operator: 22980

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,,

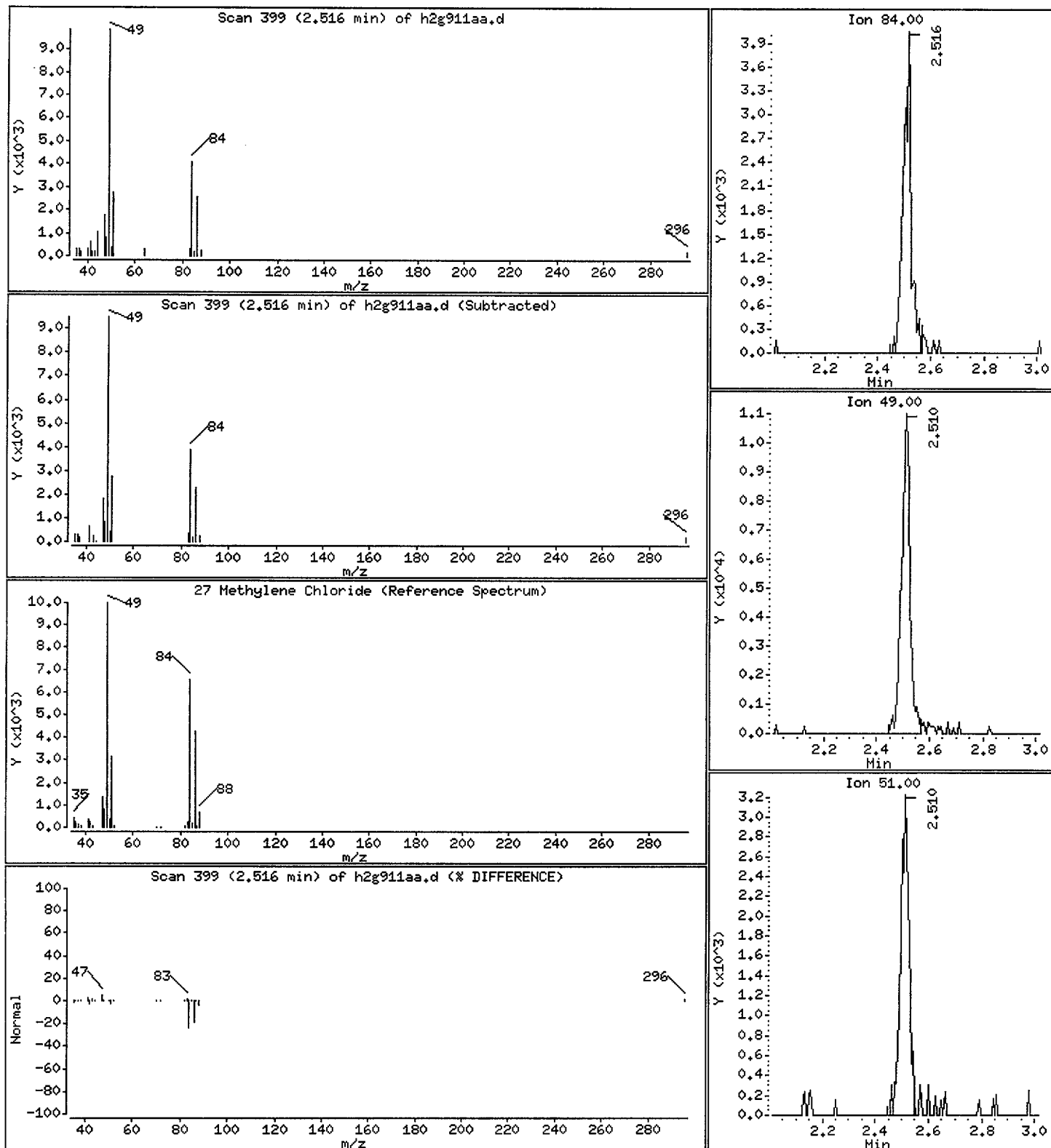
Operator: 22980

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,,

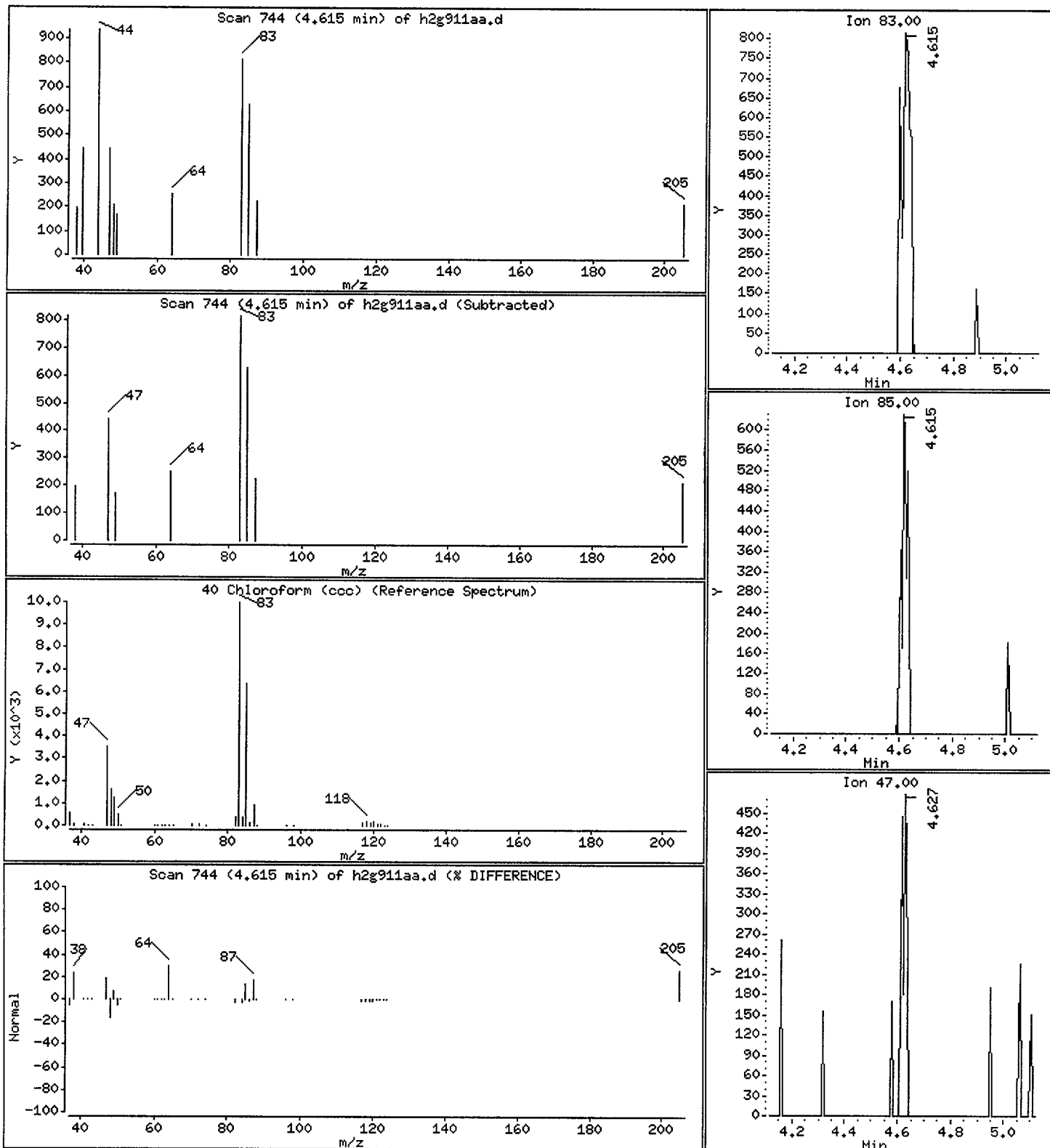
Operator: 22980

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

Instrument: mz.i

Sample Info: H2G911AA,1,0,,

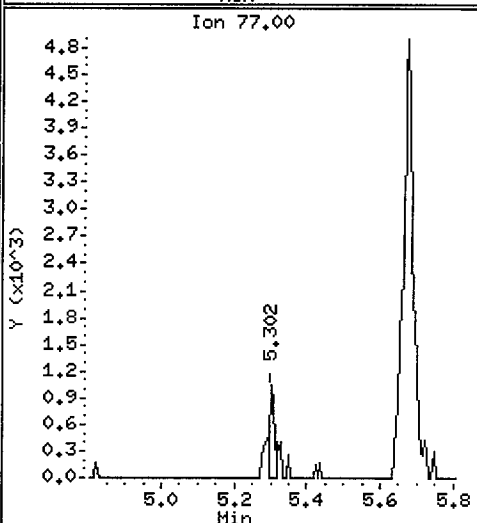
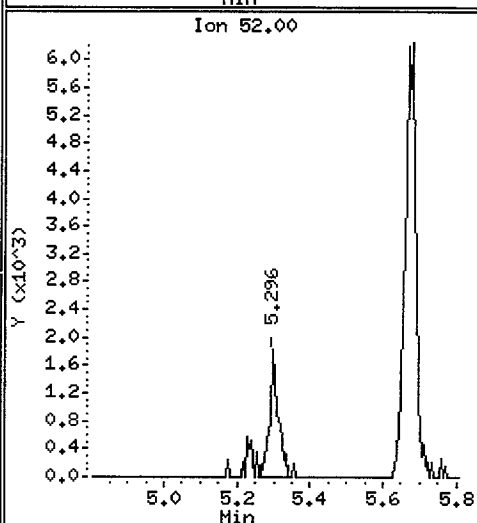
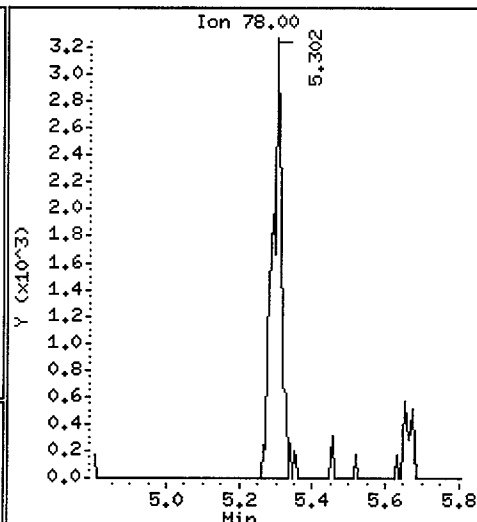
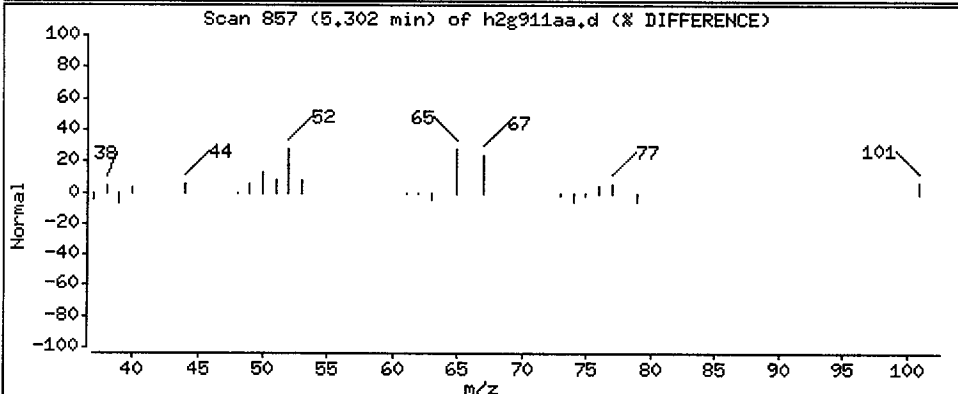
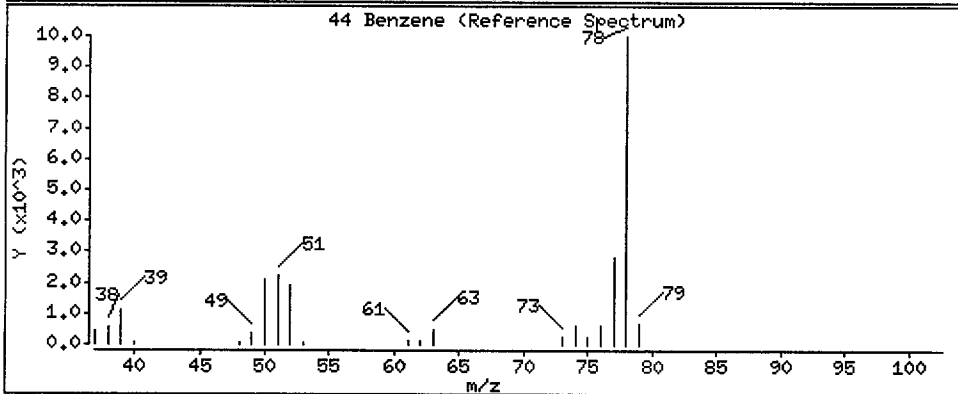
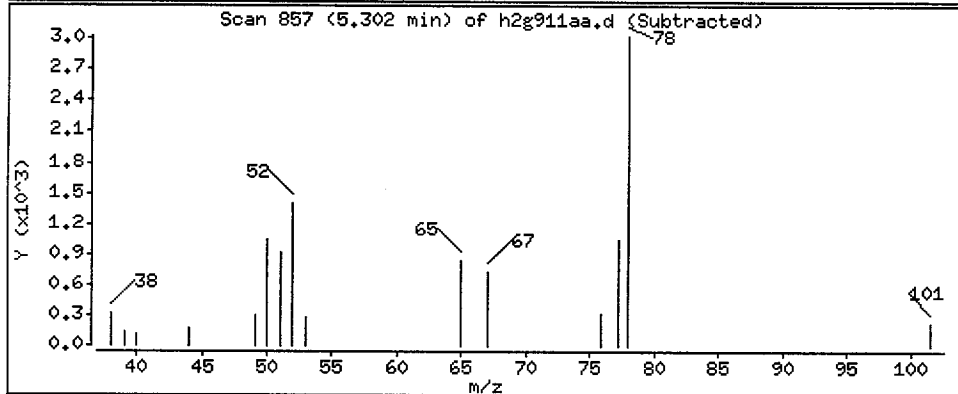
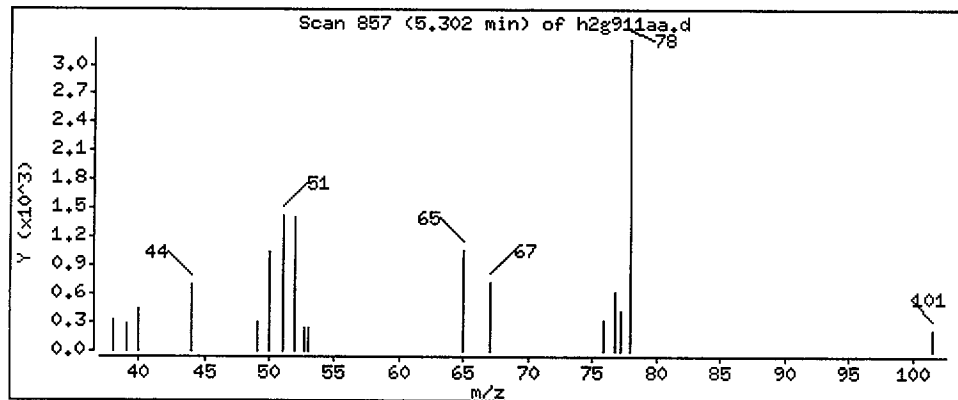
Operator: 22980

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,,

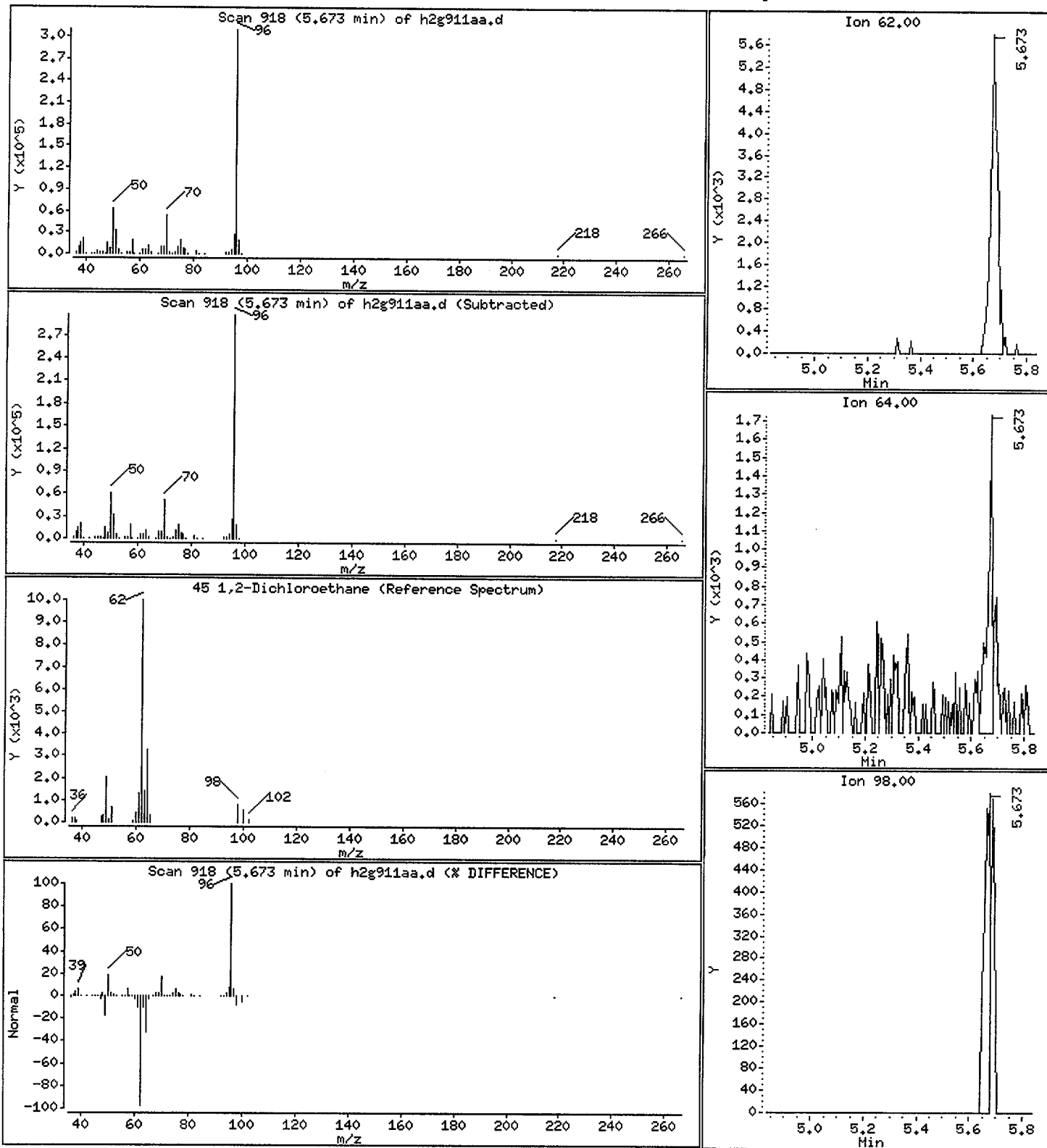
Operator: 22980

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,,

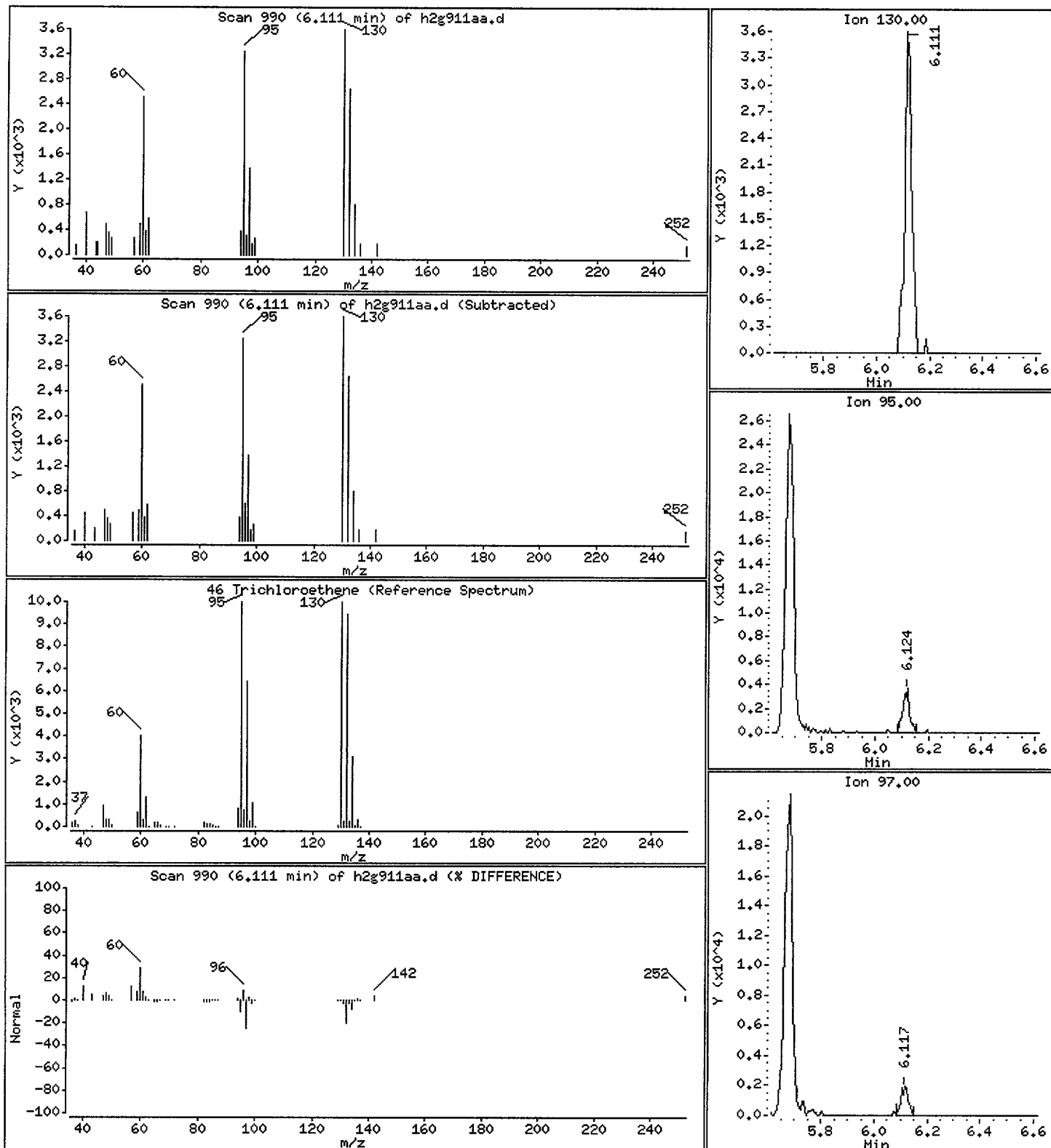
Operator: 22980

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,,

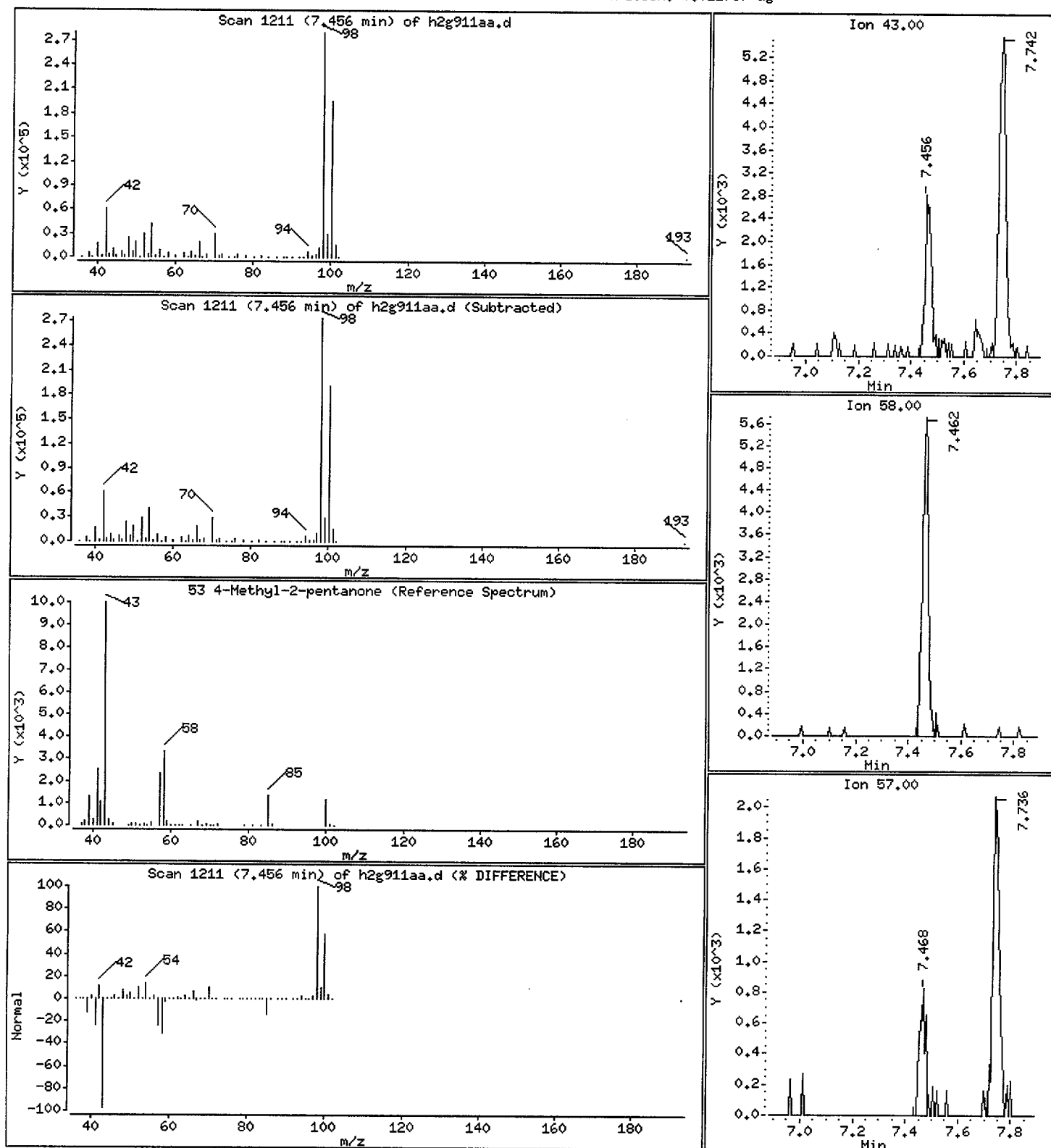
Operator: 22980

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,,

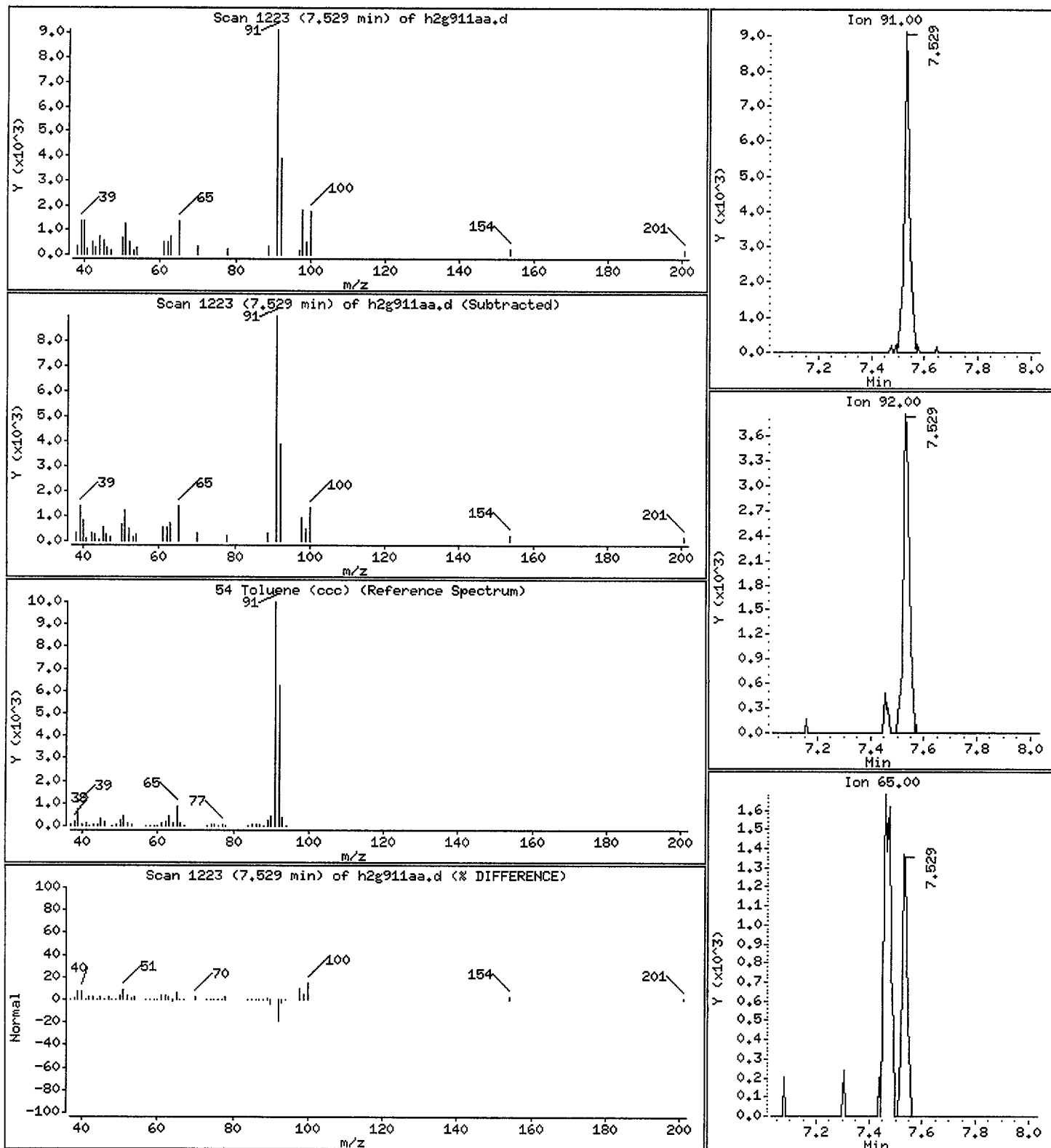
Operator: 22980

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,,

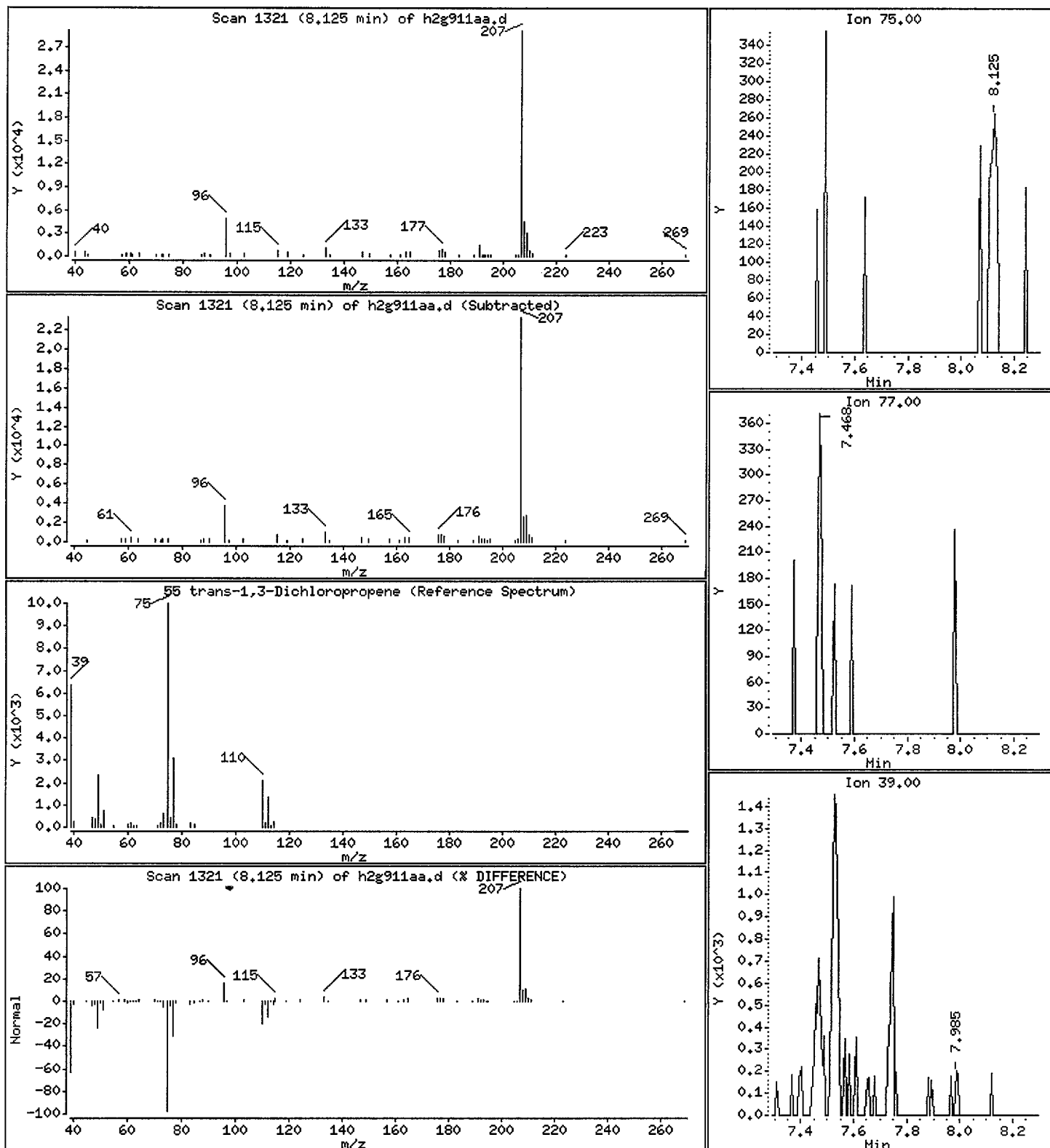
Operator: 22980

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,,

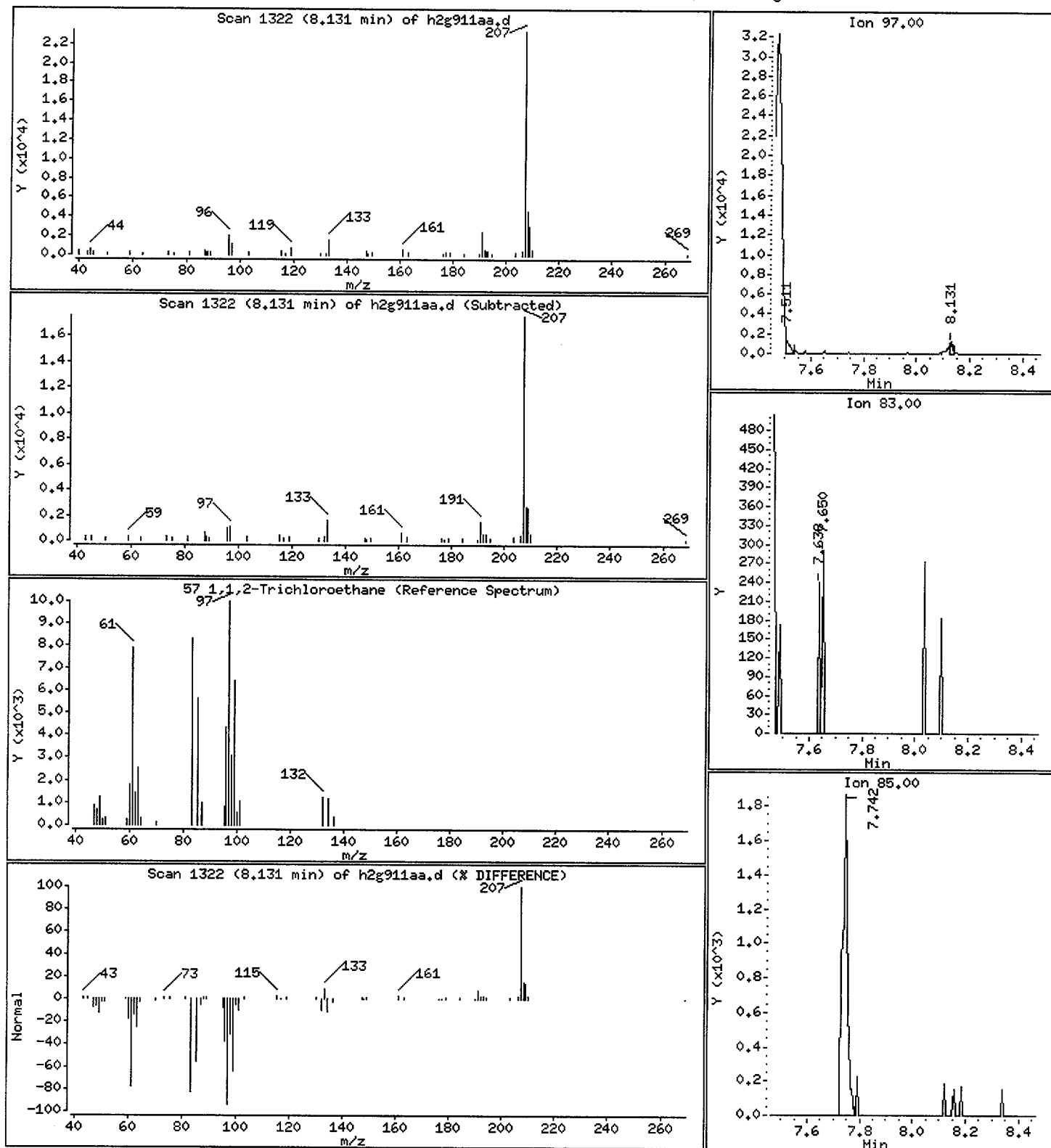
Operator: 22980

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,,

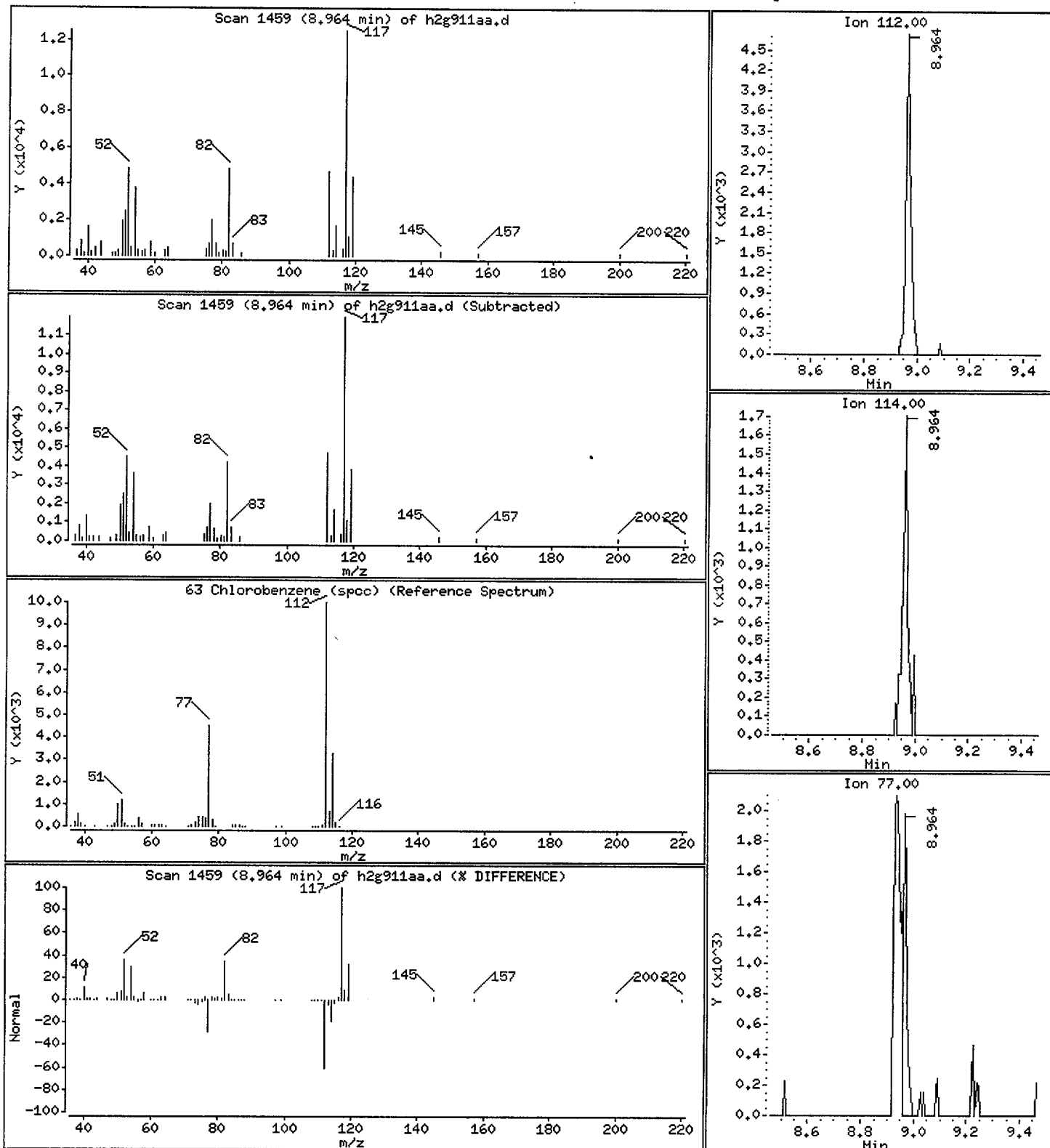
Operator: 22980

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,,

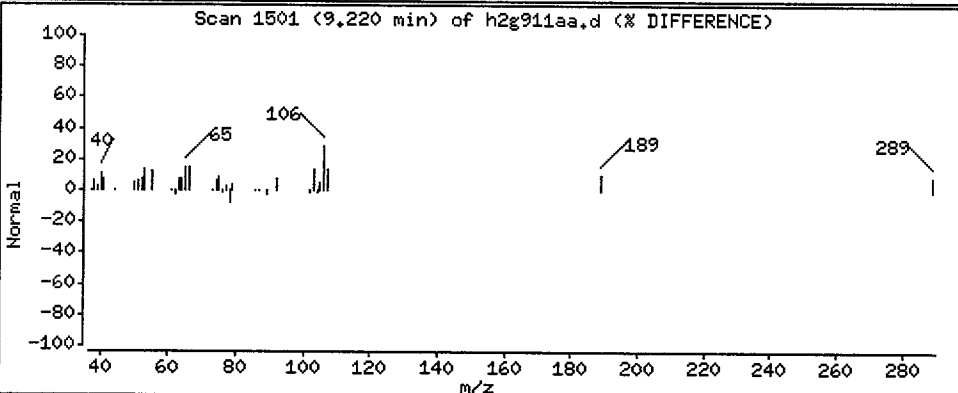
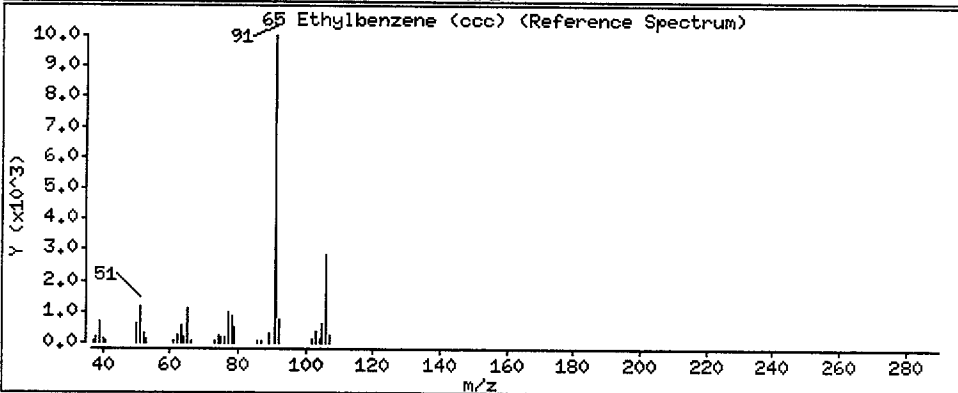
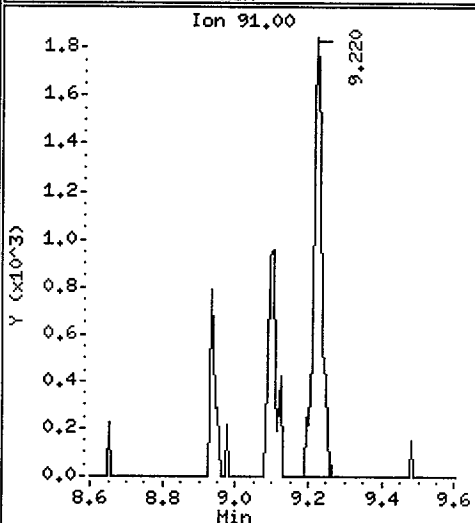
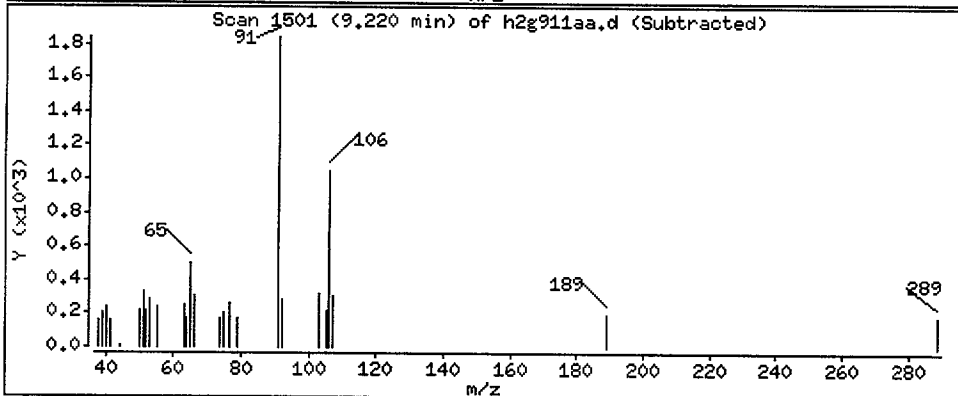
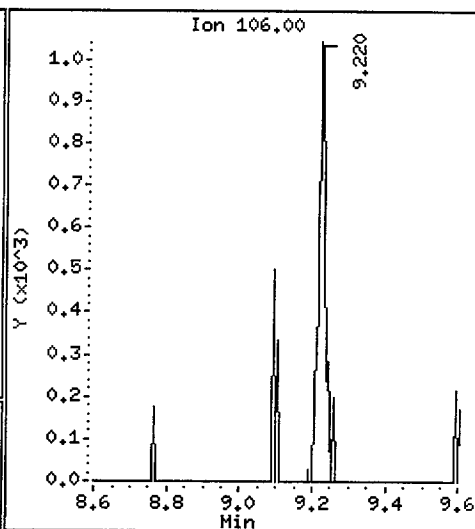
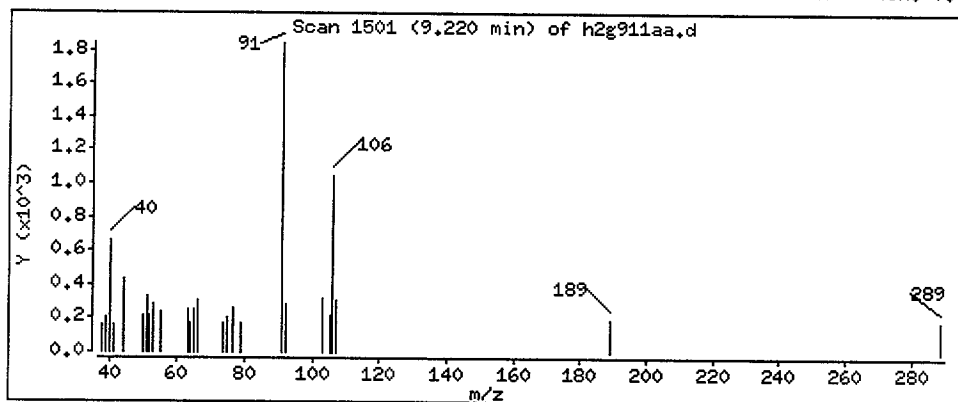
Operator: 22980

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,,

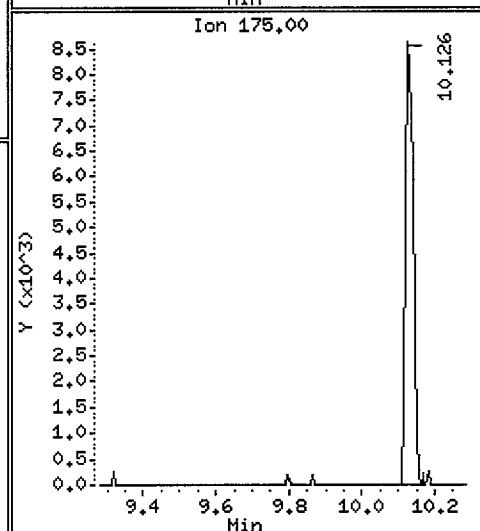
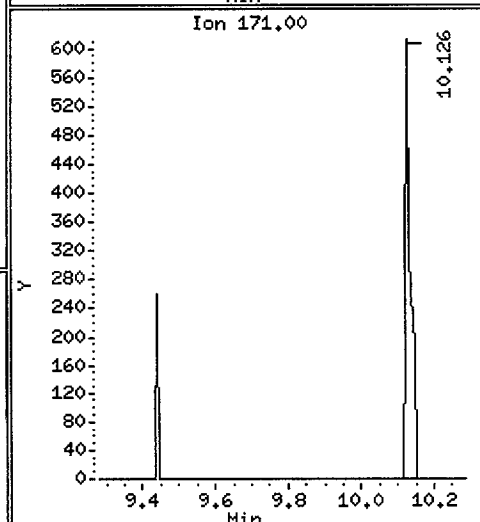
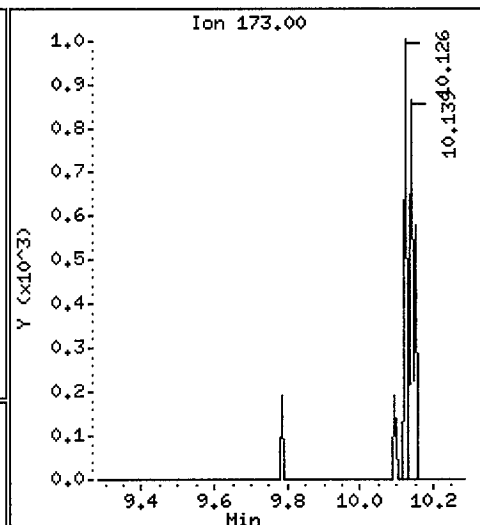
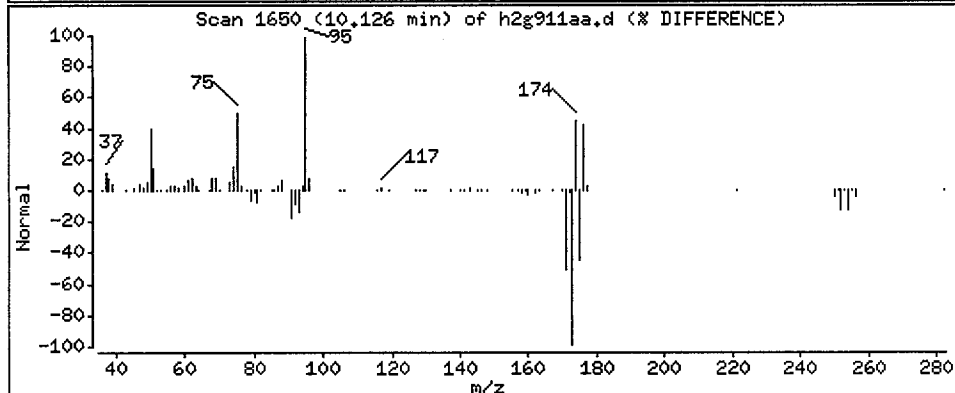
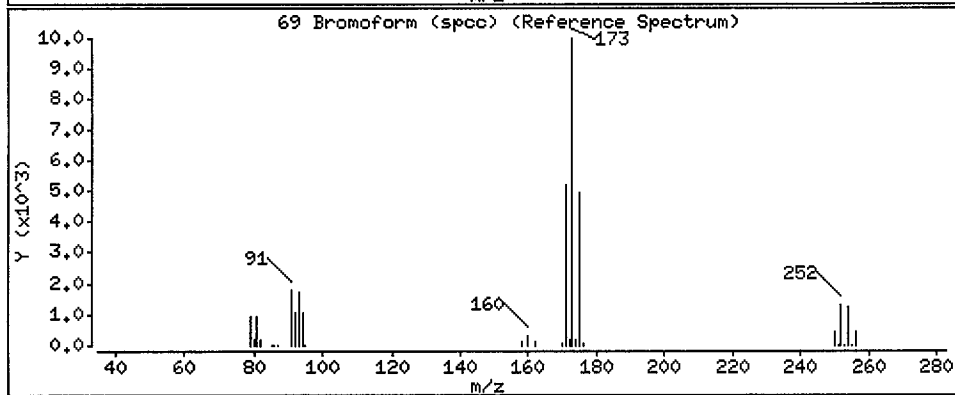
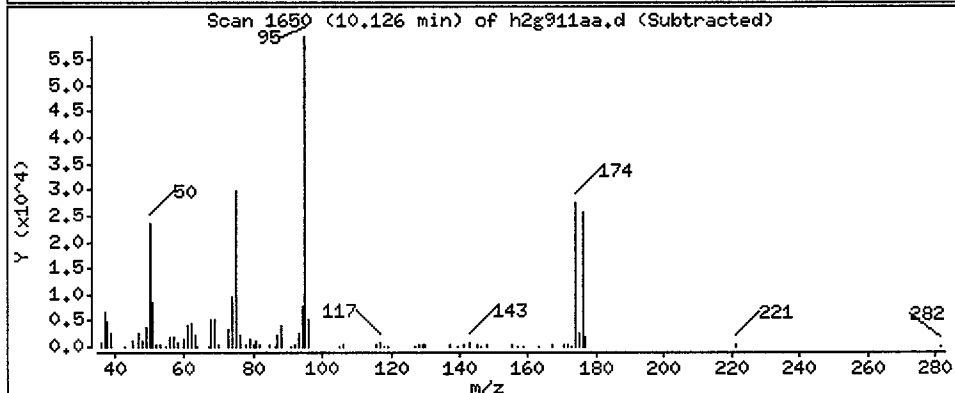
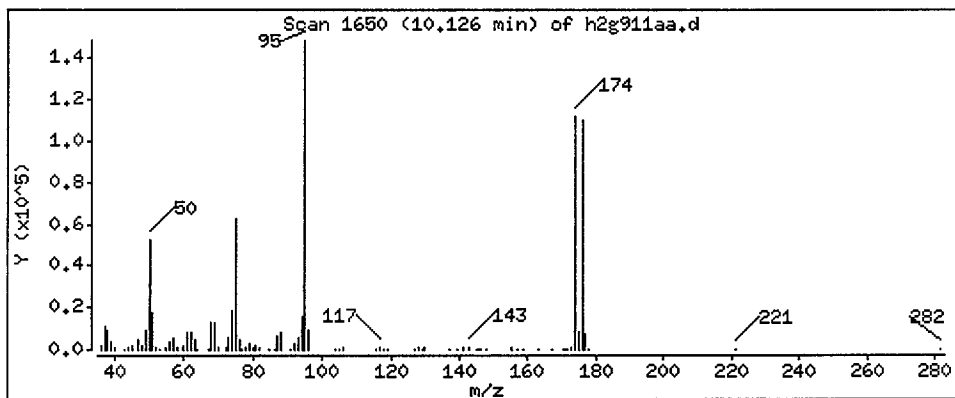
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

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,,

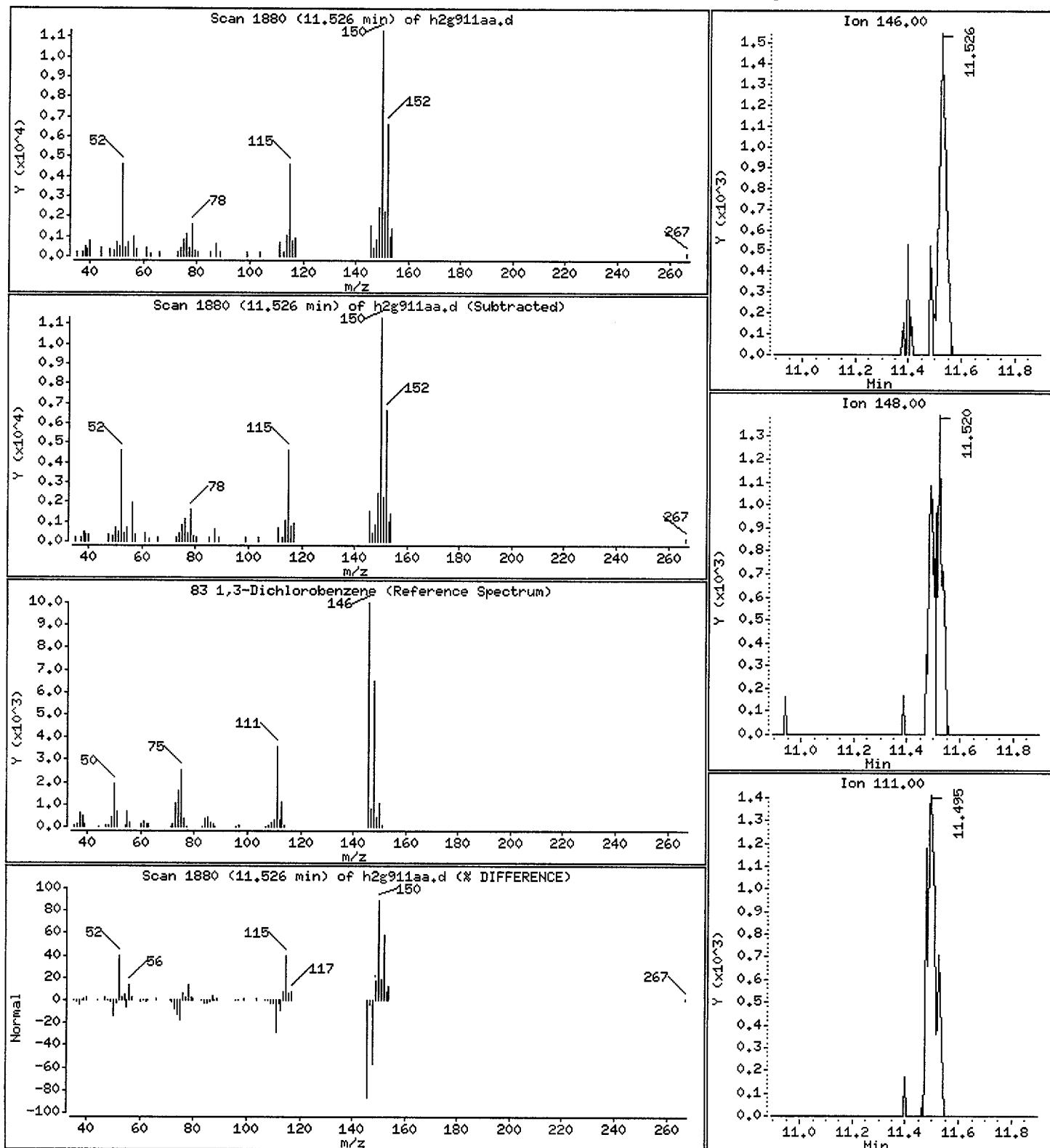
Operator: 22980

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,,

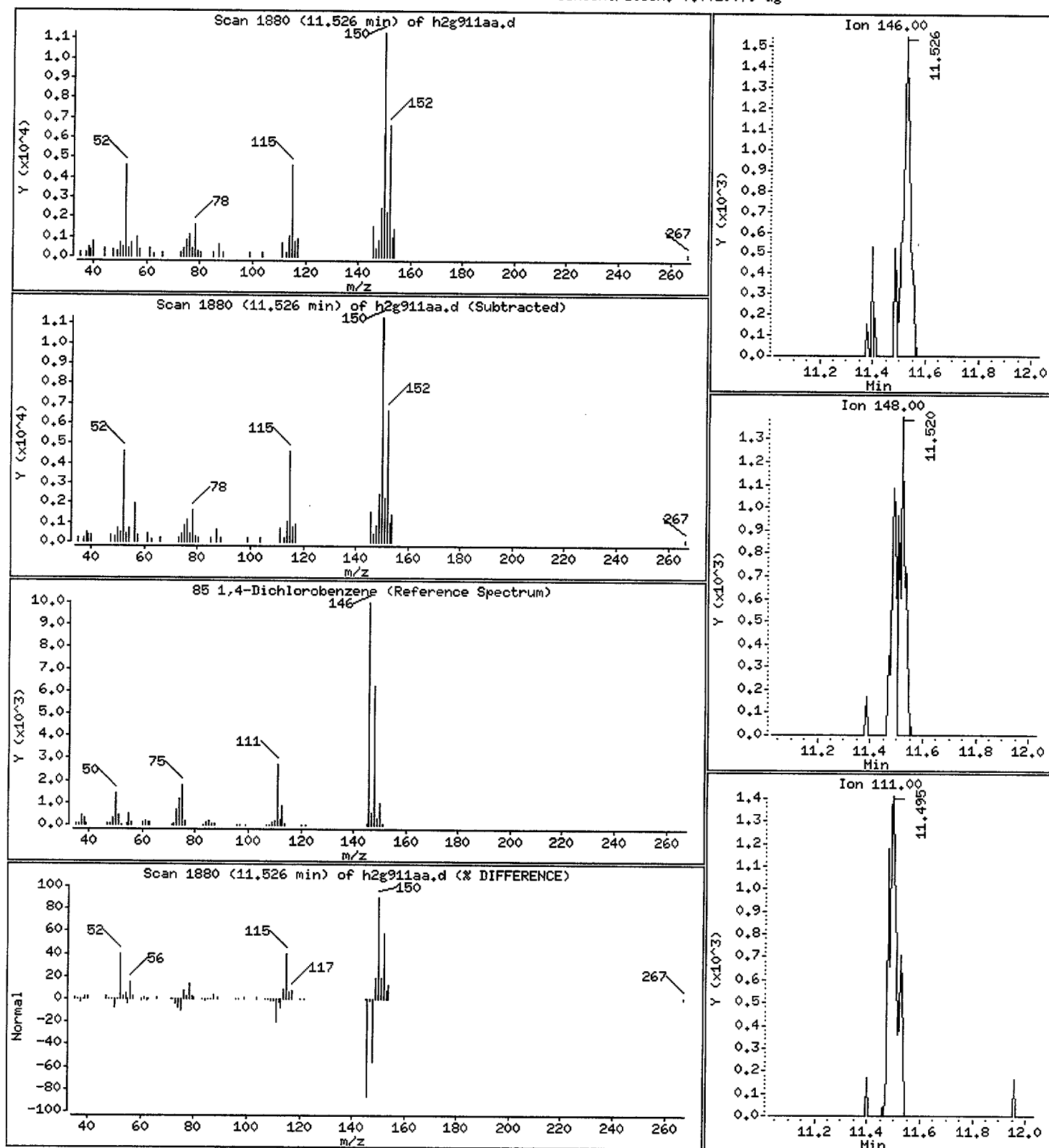
Operator: 22980

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

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
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

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	=====	==	=====	=====	=====	(ug/L)	(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

4/19/06

Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d
 Report Date: 07-Apr-2006 14:07

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	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	Calibration Date: 07-APR-2006
Lab File ID: h2g971aa.d	Calibration Time: 09:16
Lab Smp Id: H2G971AA	Client Smp ID: G-3010-R2-VOST PAIR
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 22980	
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m	
Misc Info: X040706,8260B_LM,focus.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
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

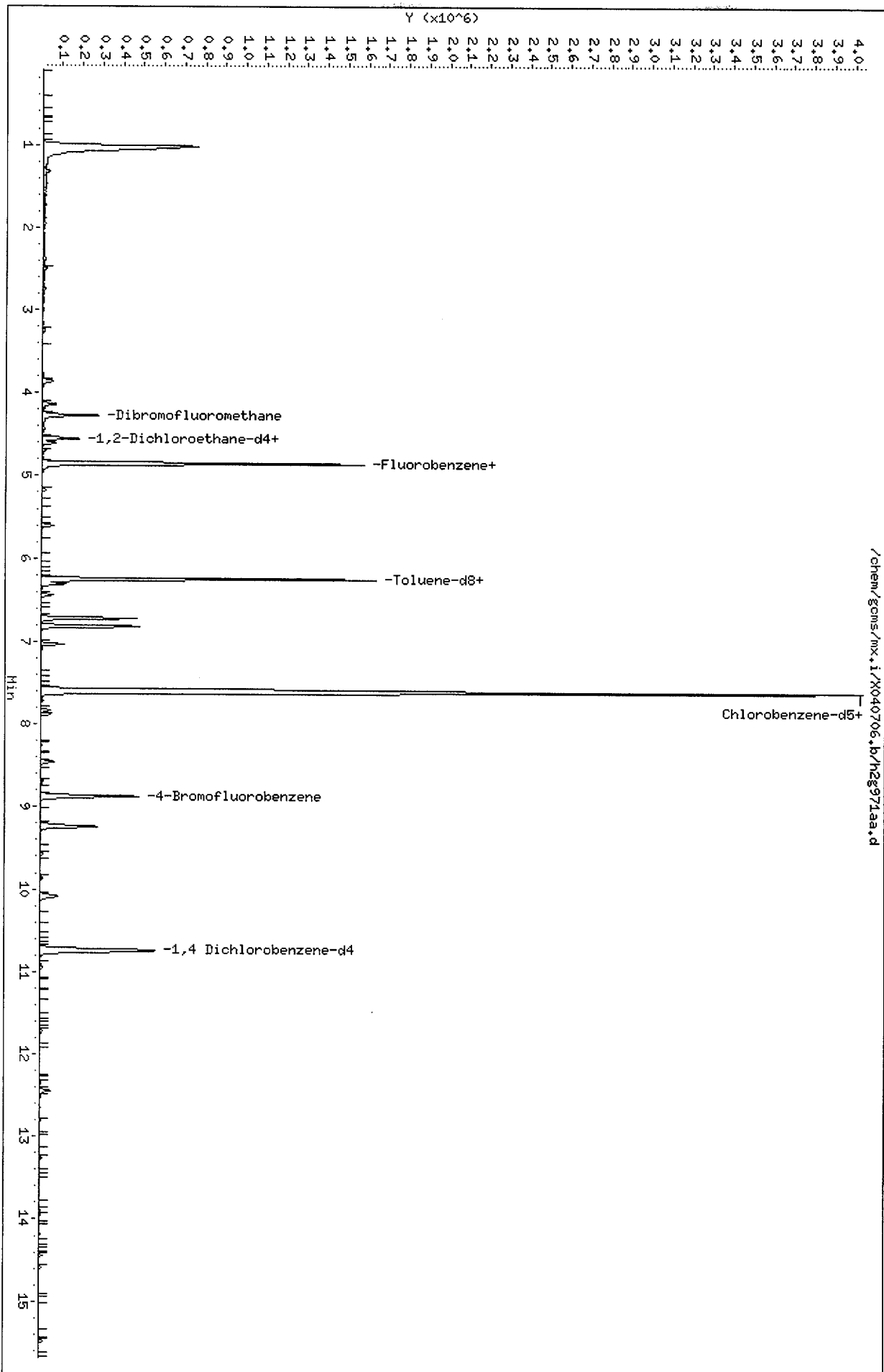
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Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: H2G971AA	Client Smp ID: G-3010-R2-VOST PAIR
Level: LOW	Operator: 22980
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: allcmpds.spk	Quant Type: ISTD
Sublist File: focus.sub	
Method File: /var/chem/gcms/mx.i/X040706.b/8260B_LM.m	
Misc Info: X040706,8260B_LM,focus.sub	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 4 Dibromofluorometha	0.25000	0.19006	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



Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: G-3010-R2-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

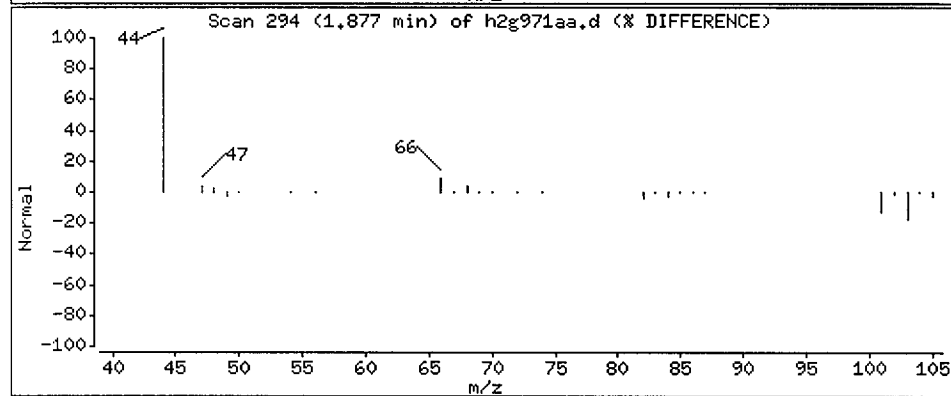
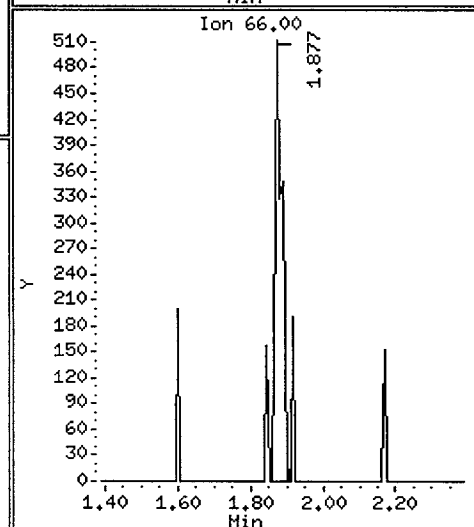
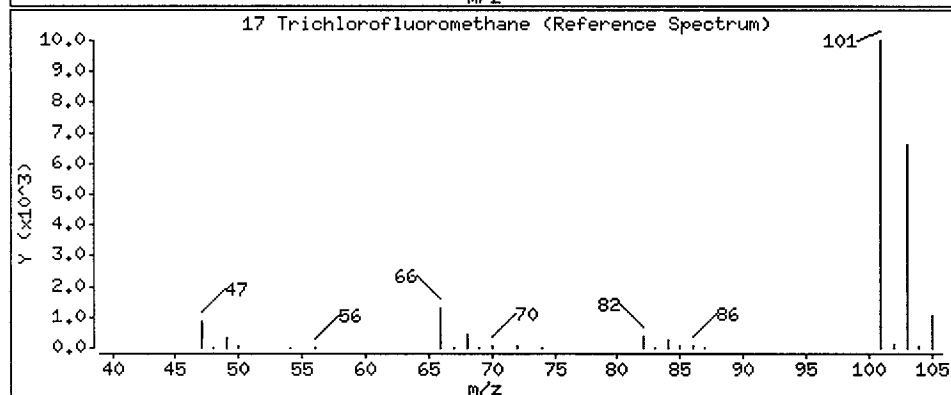
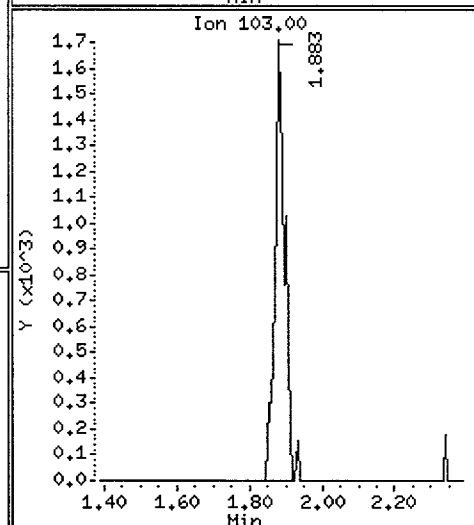
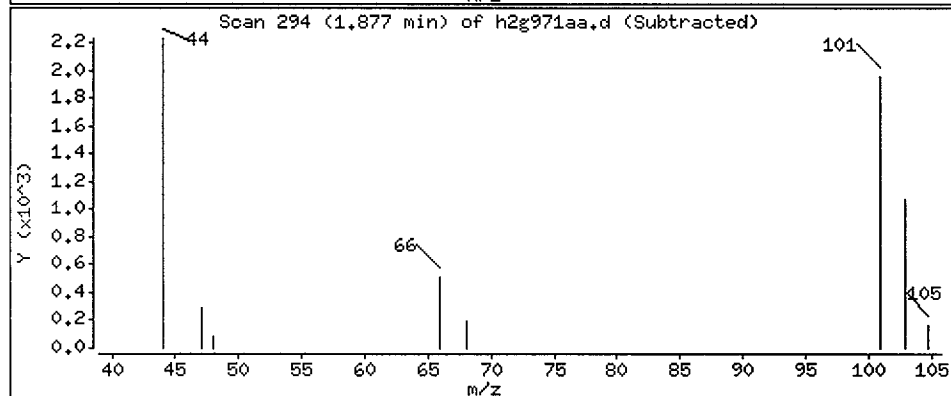
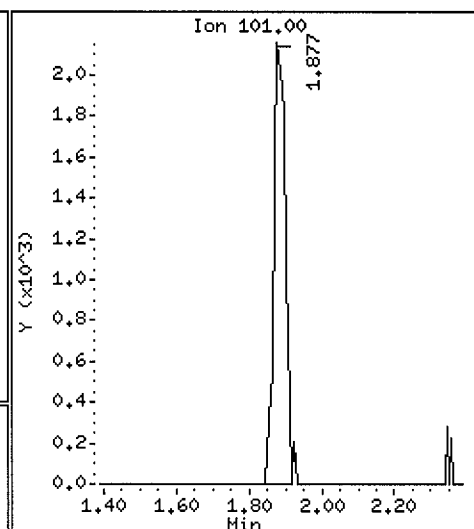
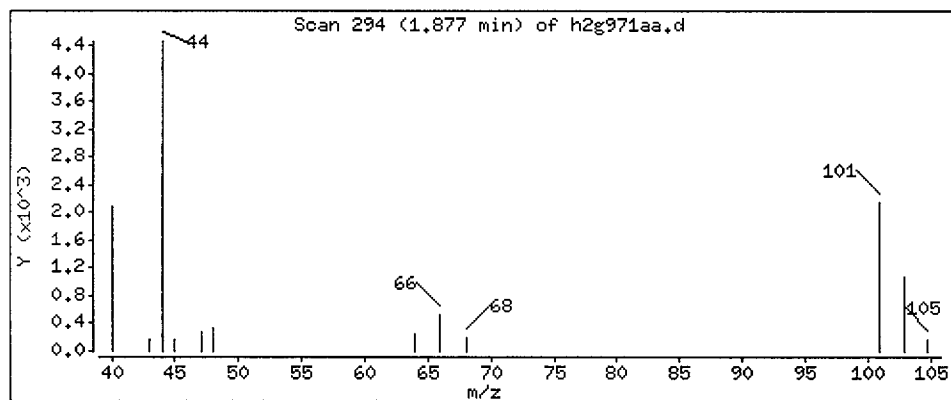
Operator: 22980

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,,,

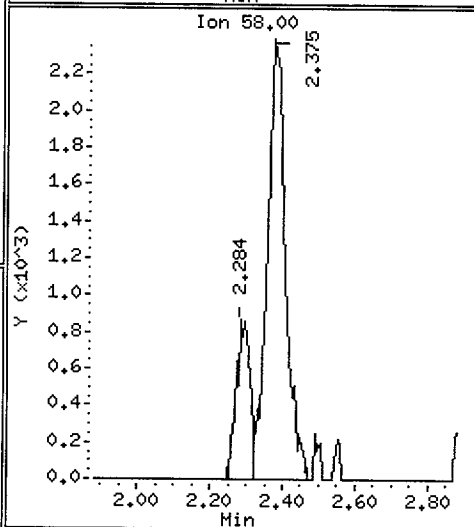
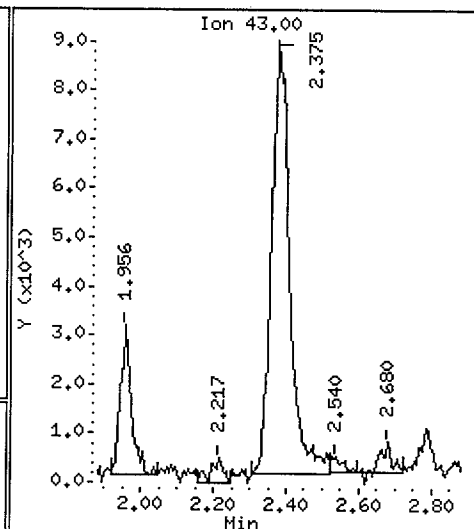
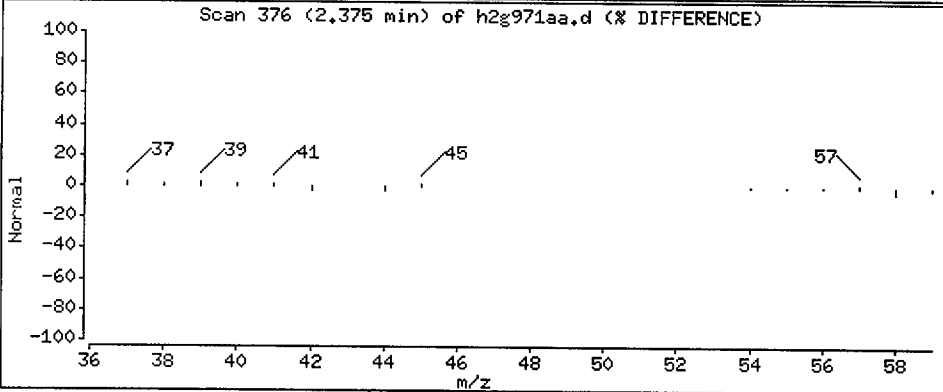
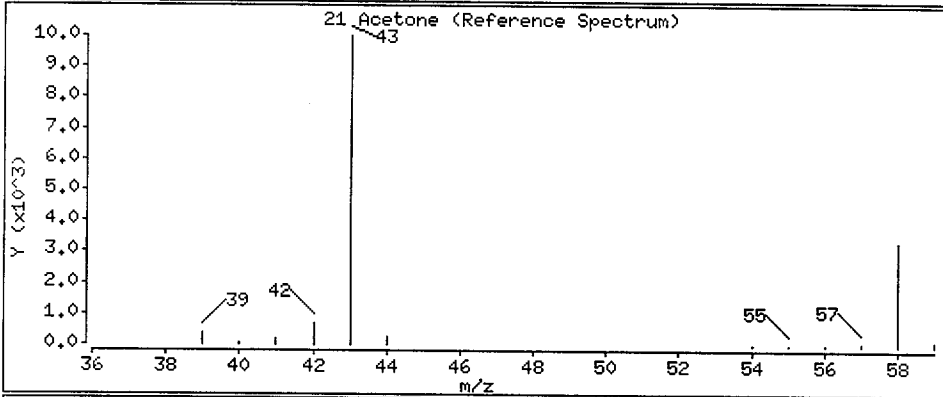
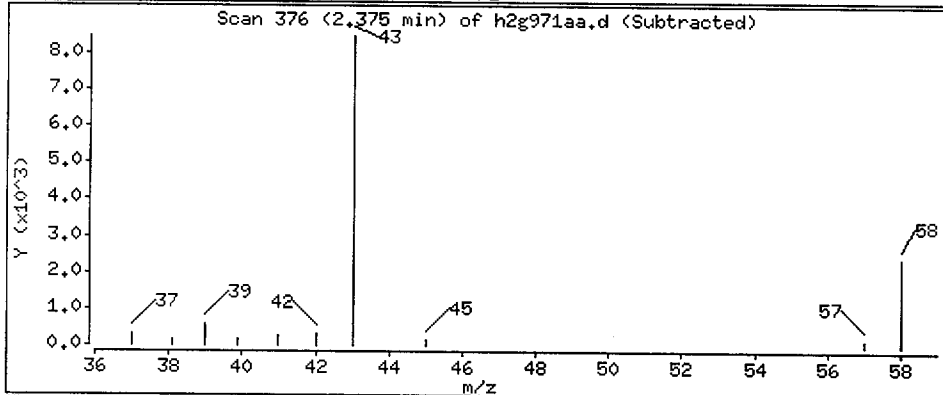
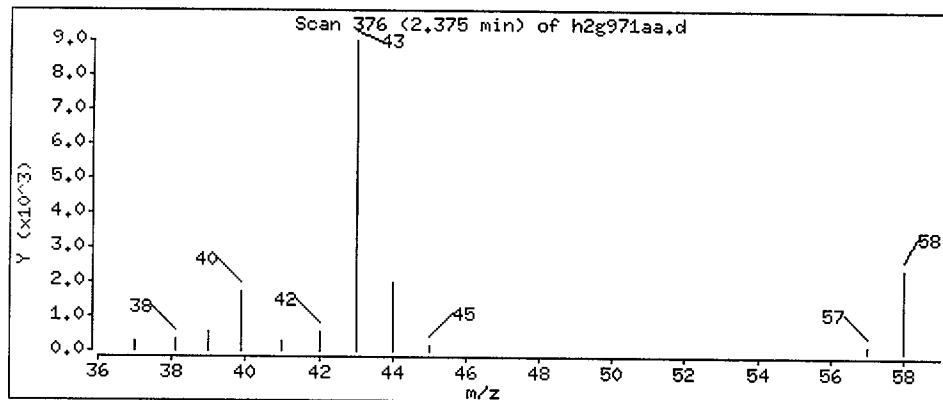
Operator: 22980

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,,,

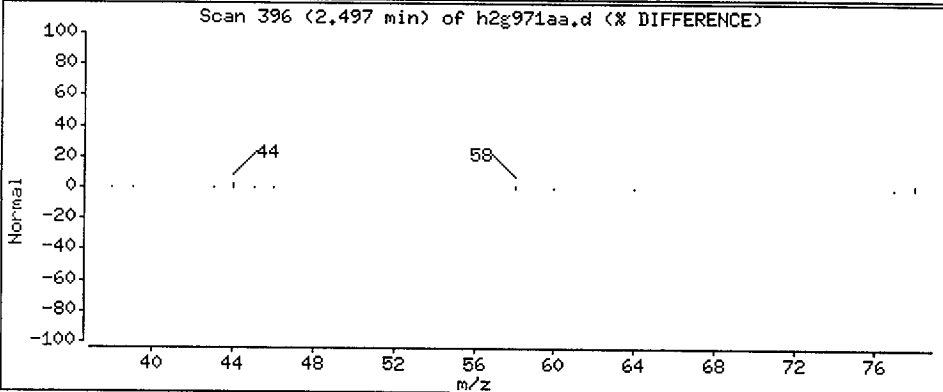
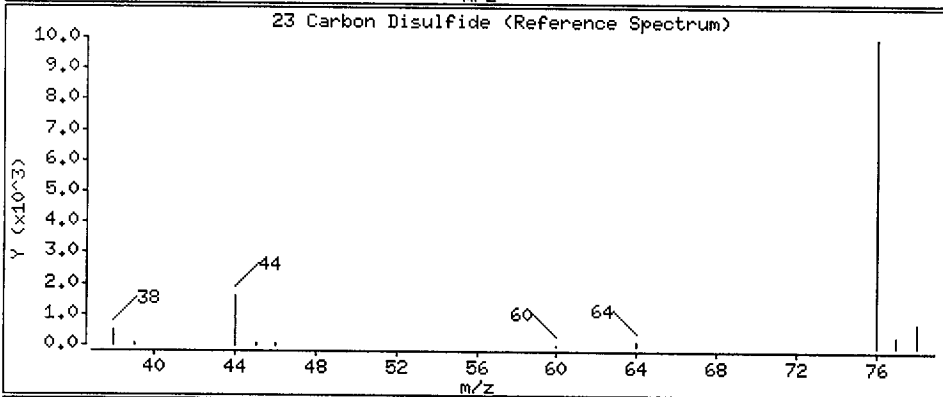
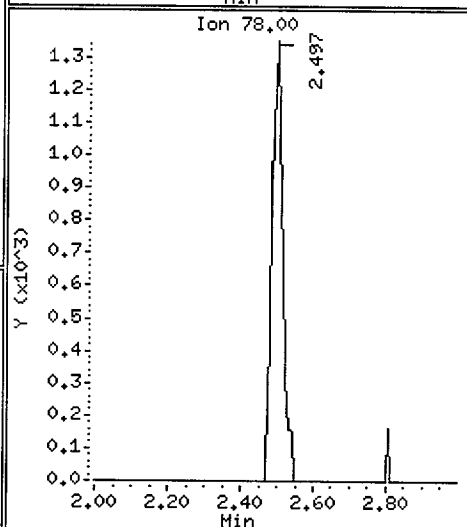
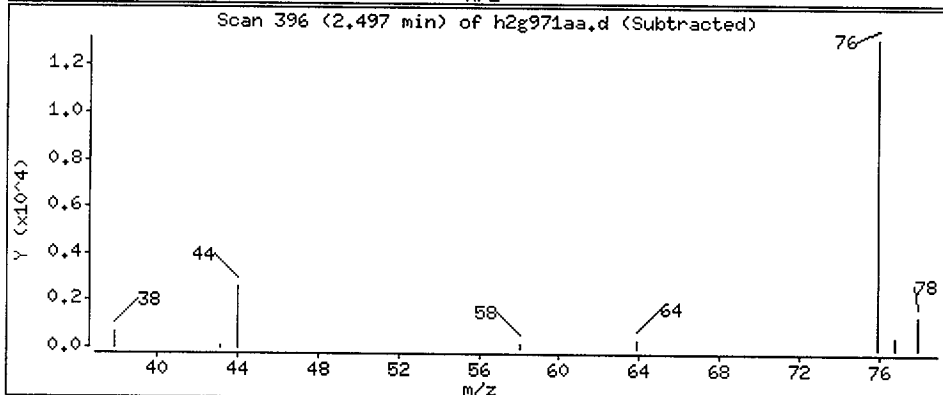
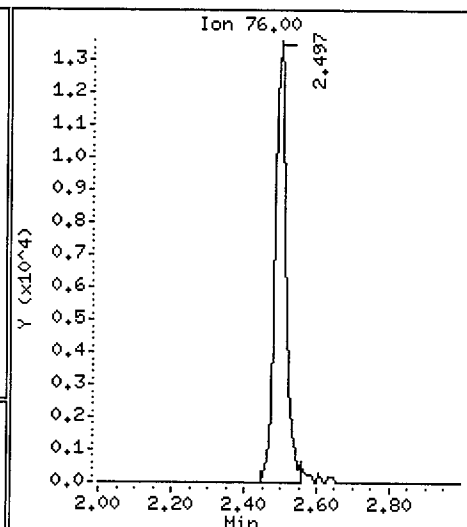
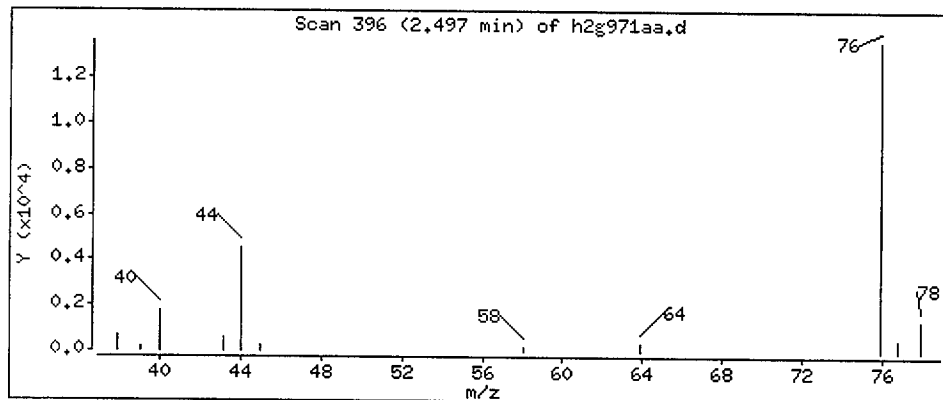
Operator: 22980

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,,

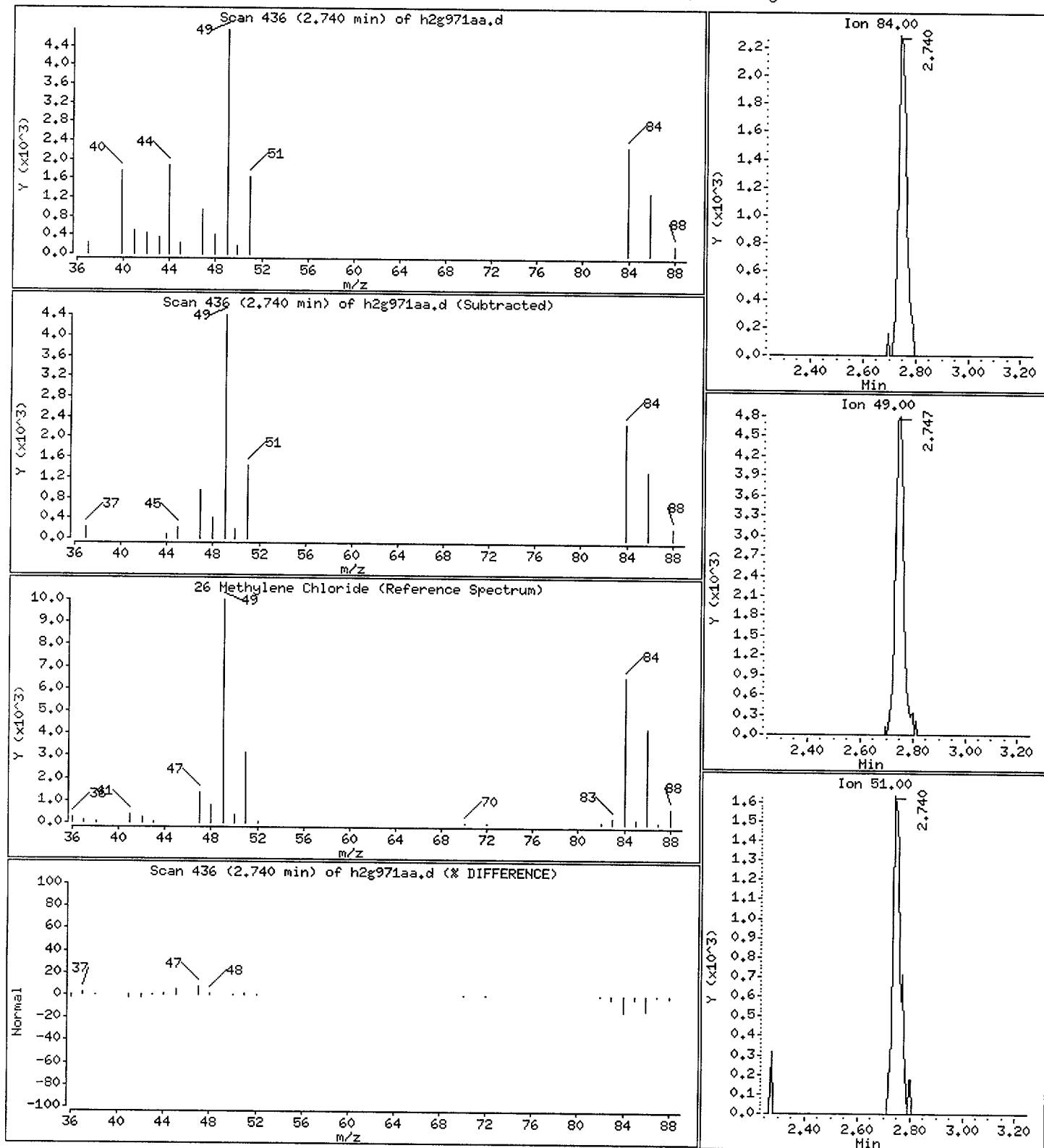
Operator: 22980

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,,,

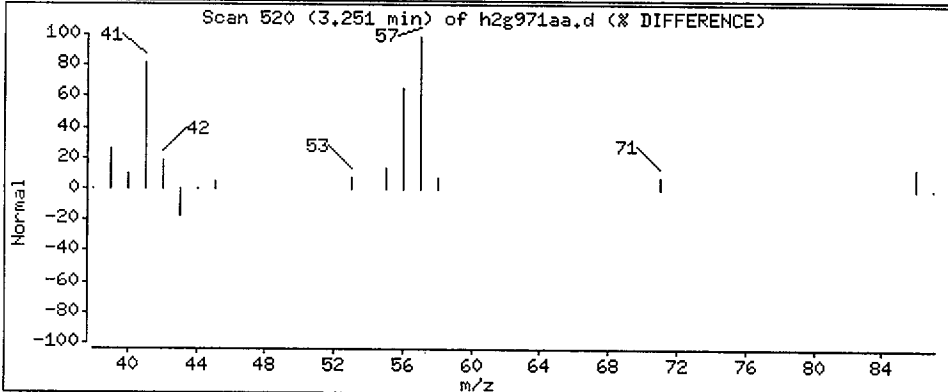
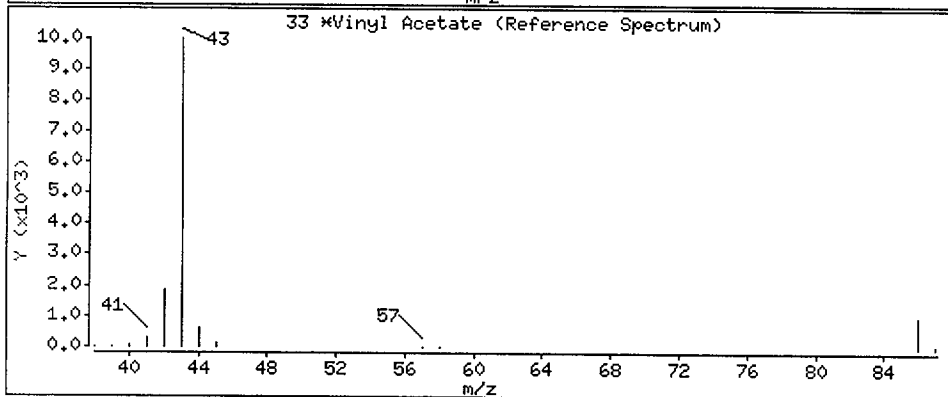
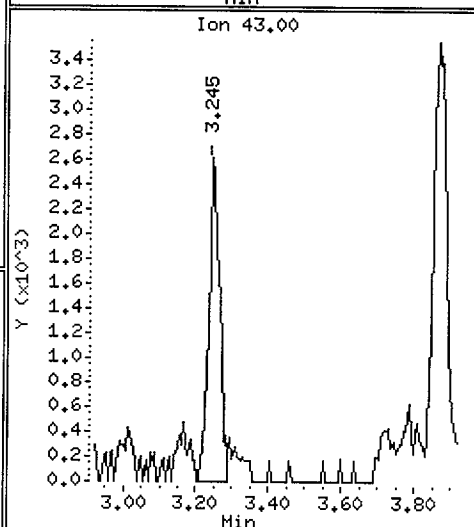
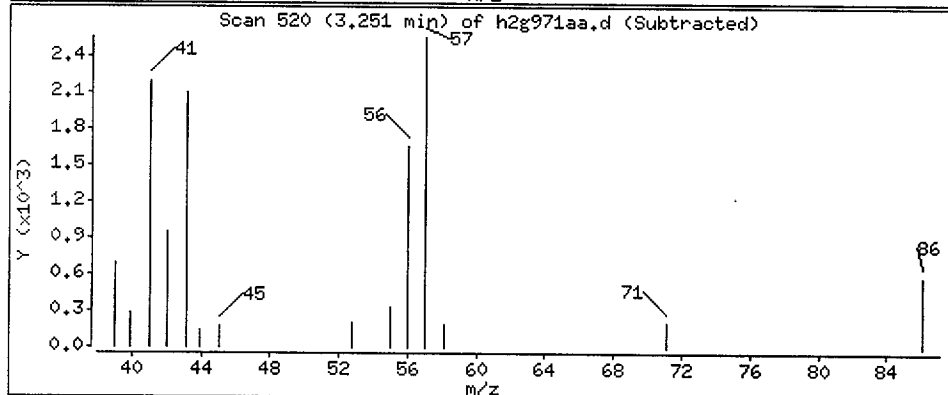
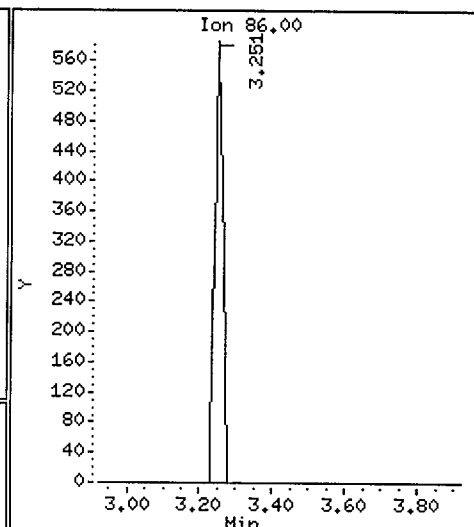
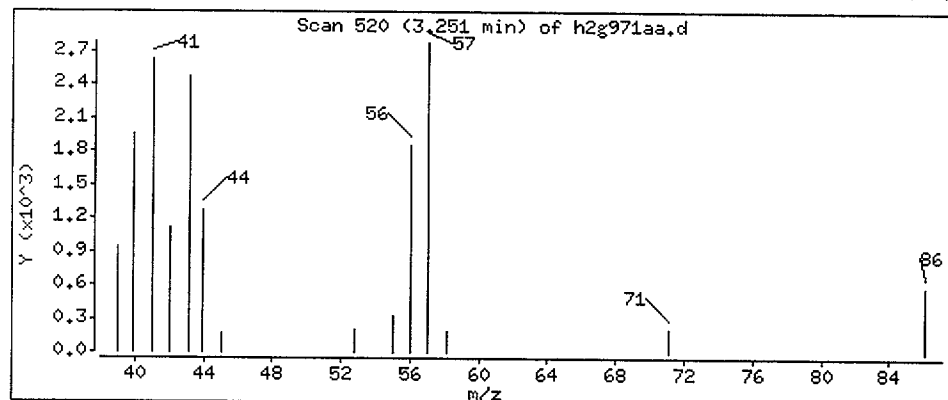
Operator: 22980

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: H2C971AA,1,0,,,

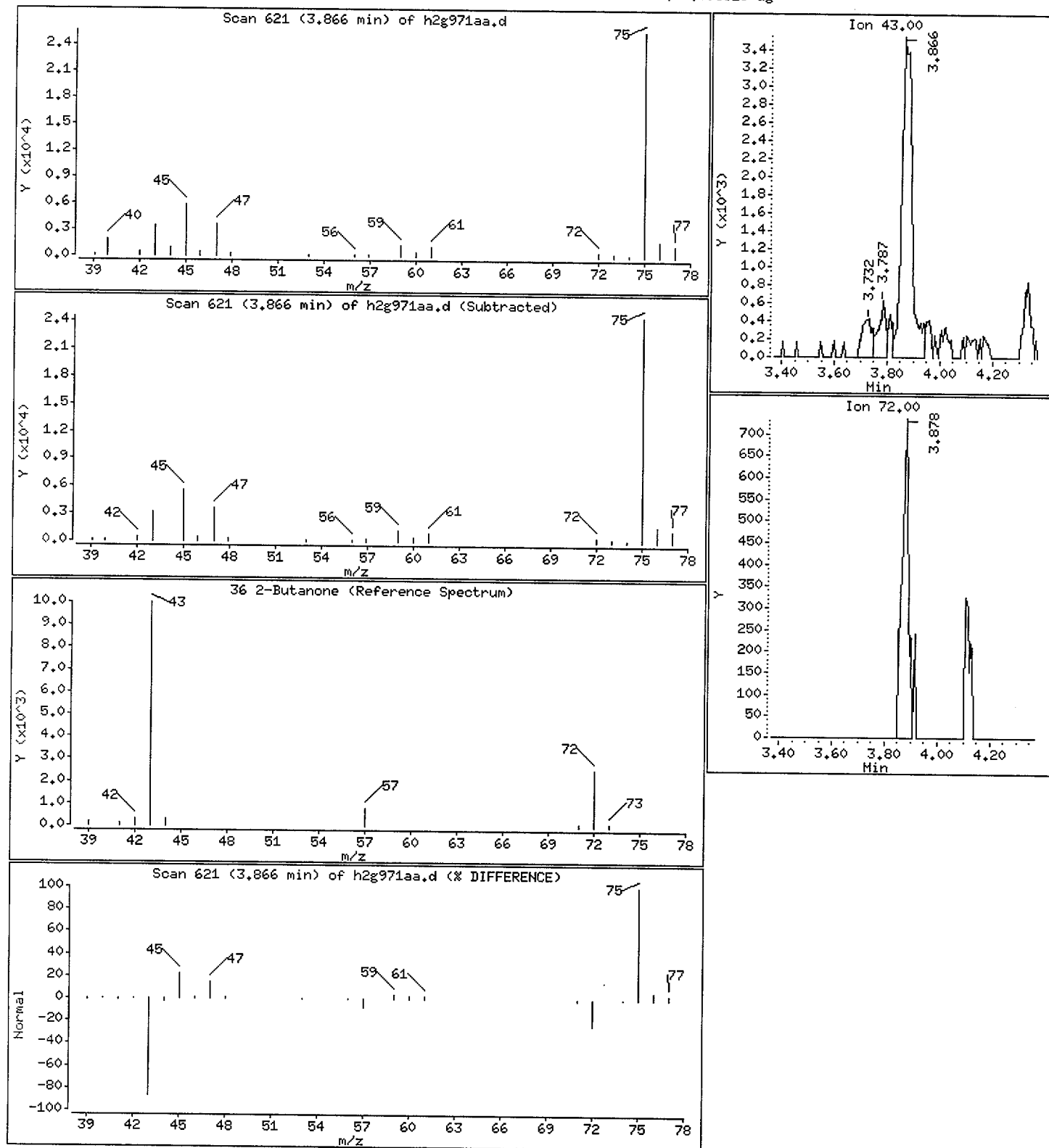
Operator: 22980

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,,,

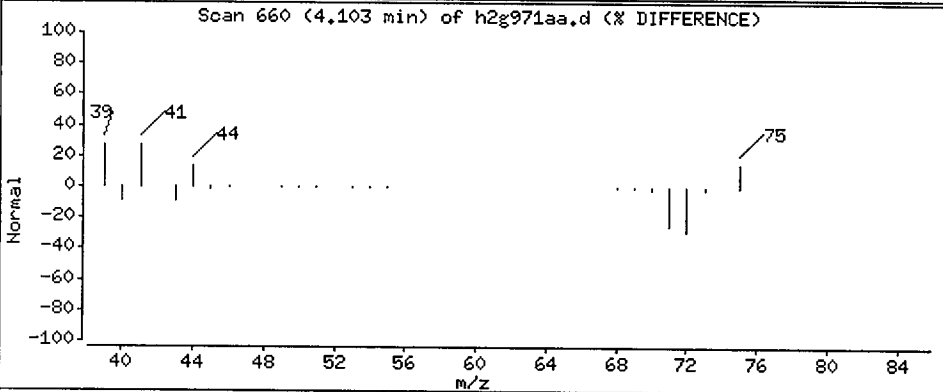
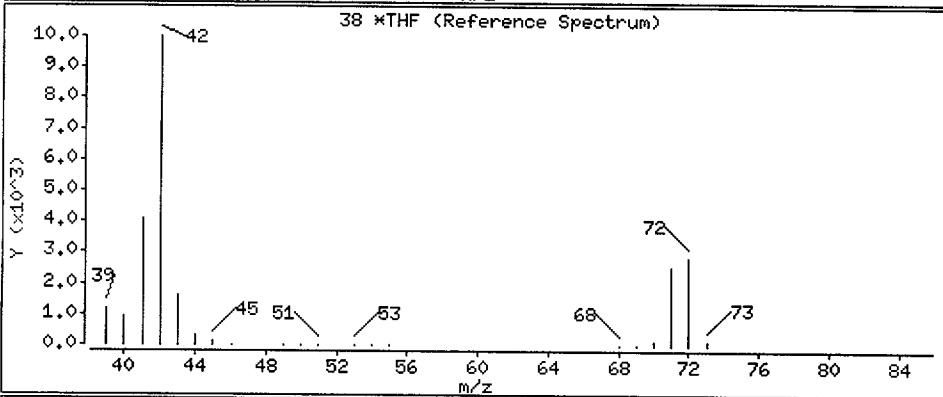
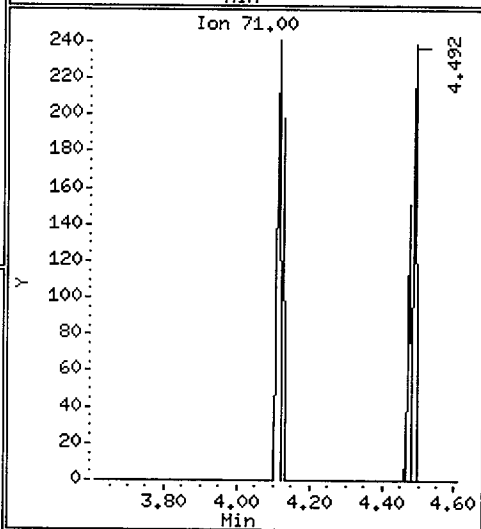
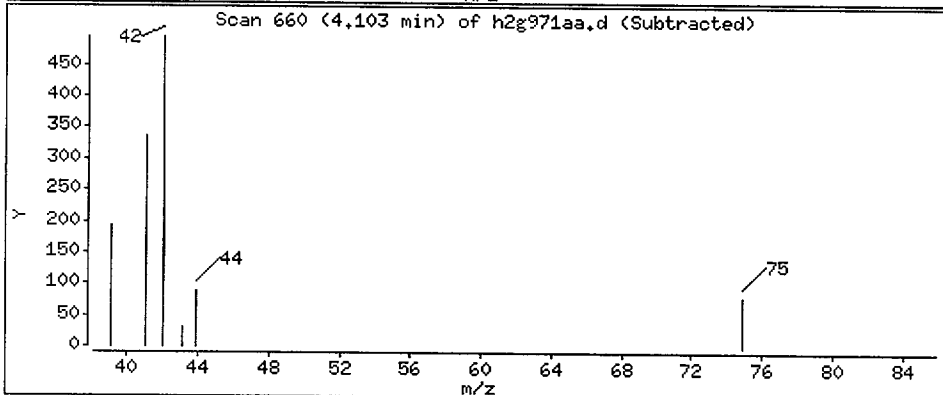
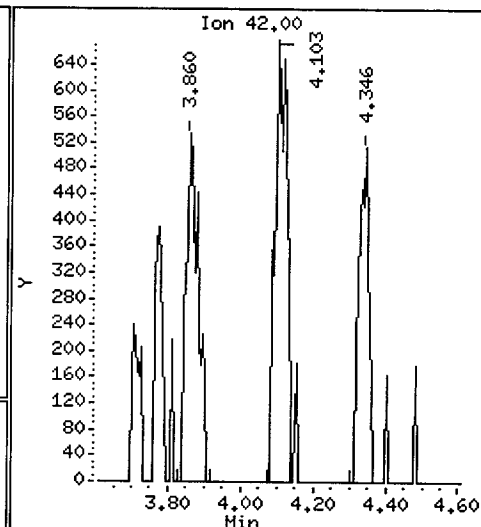
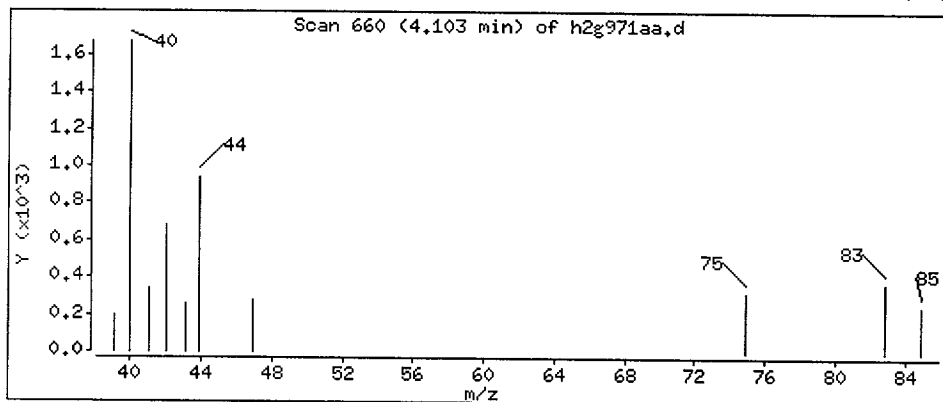
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA.1.0,,,

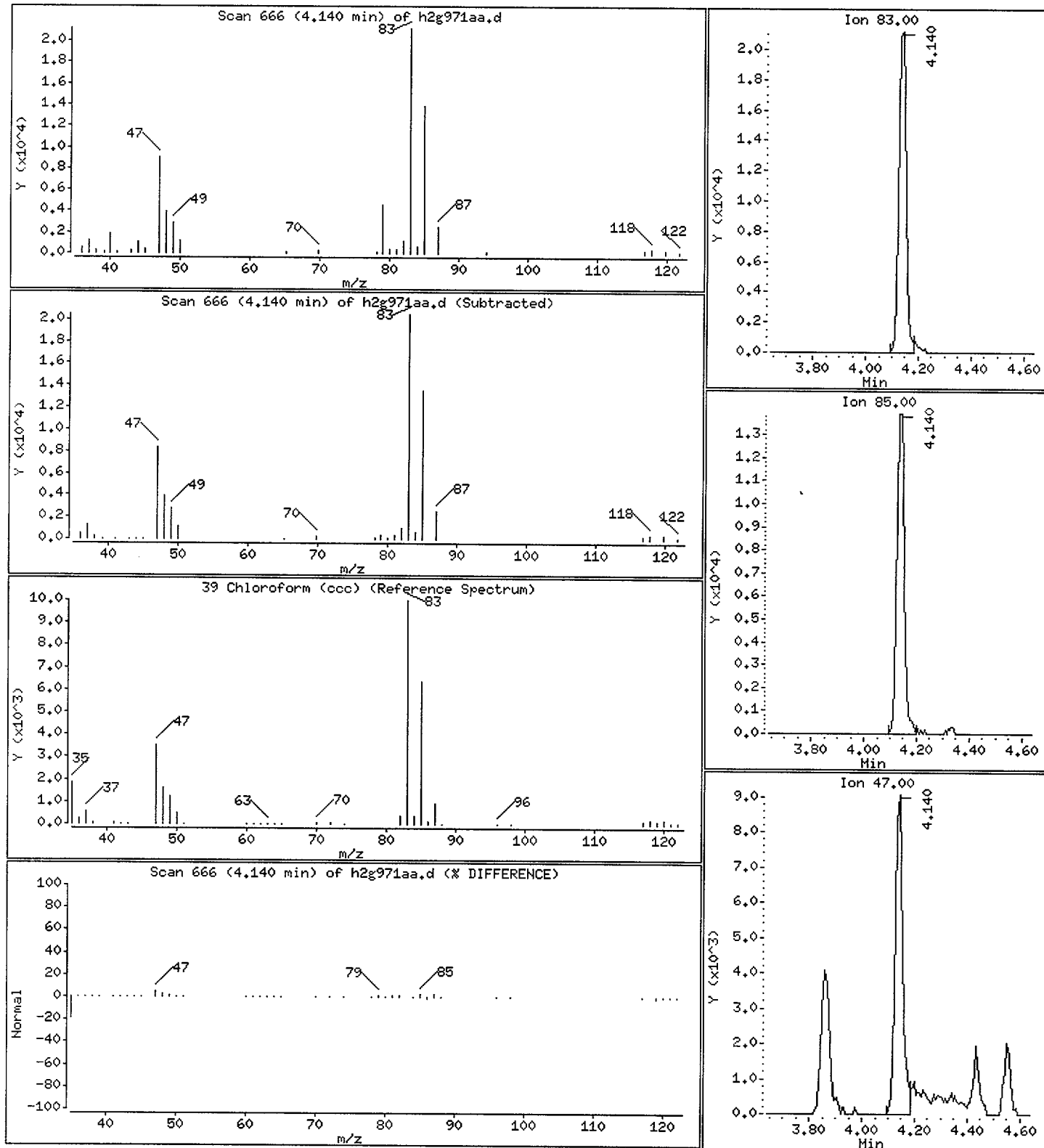
Operator: 22980

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,,,

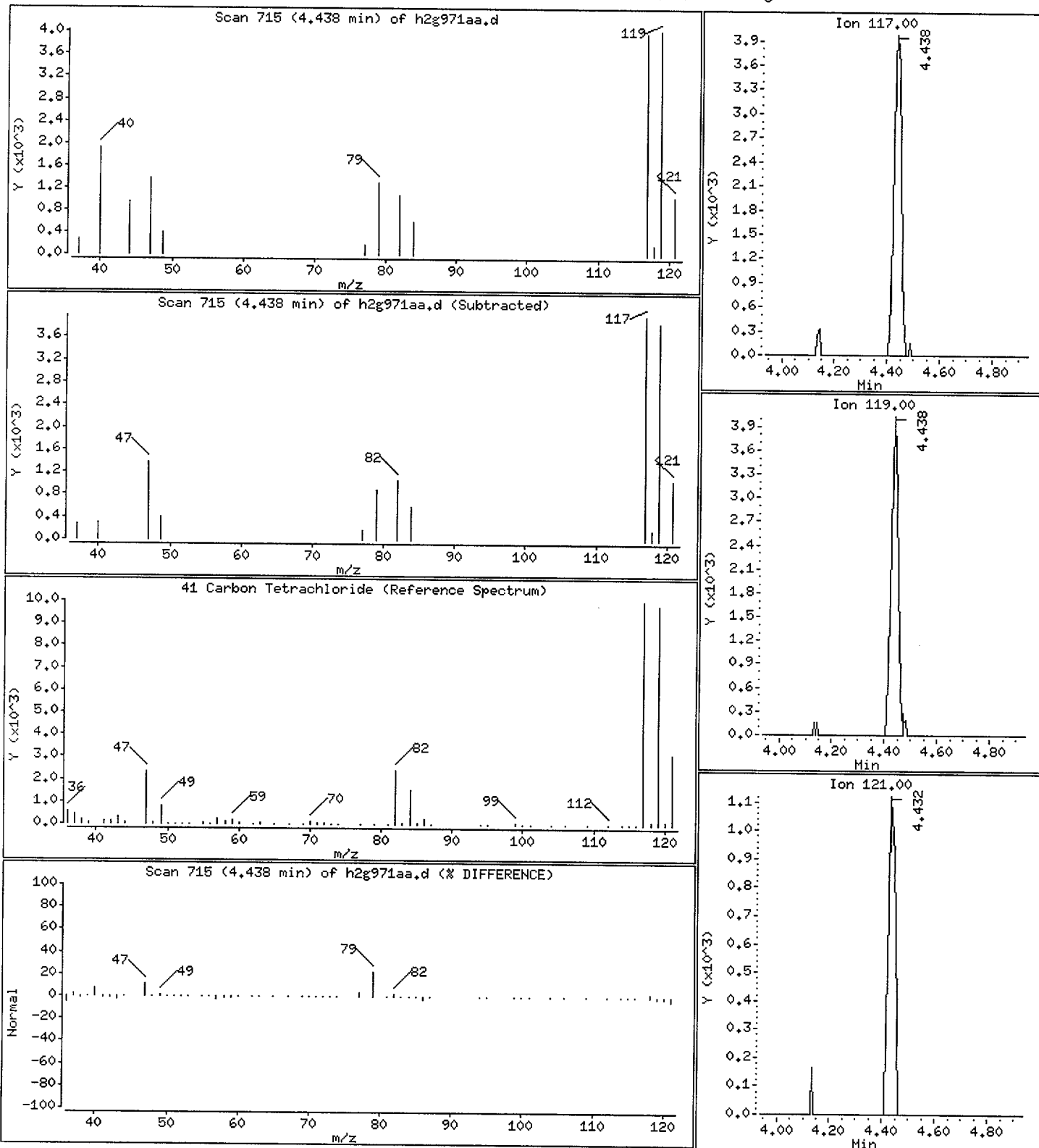
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

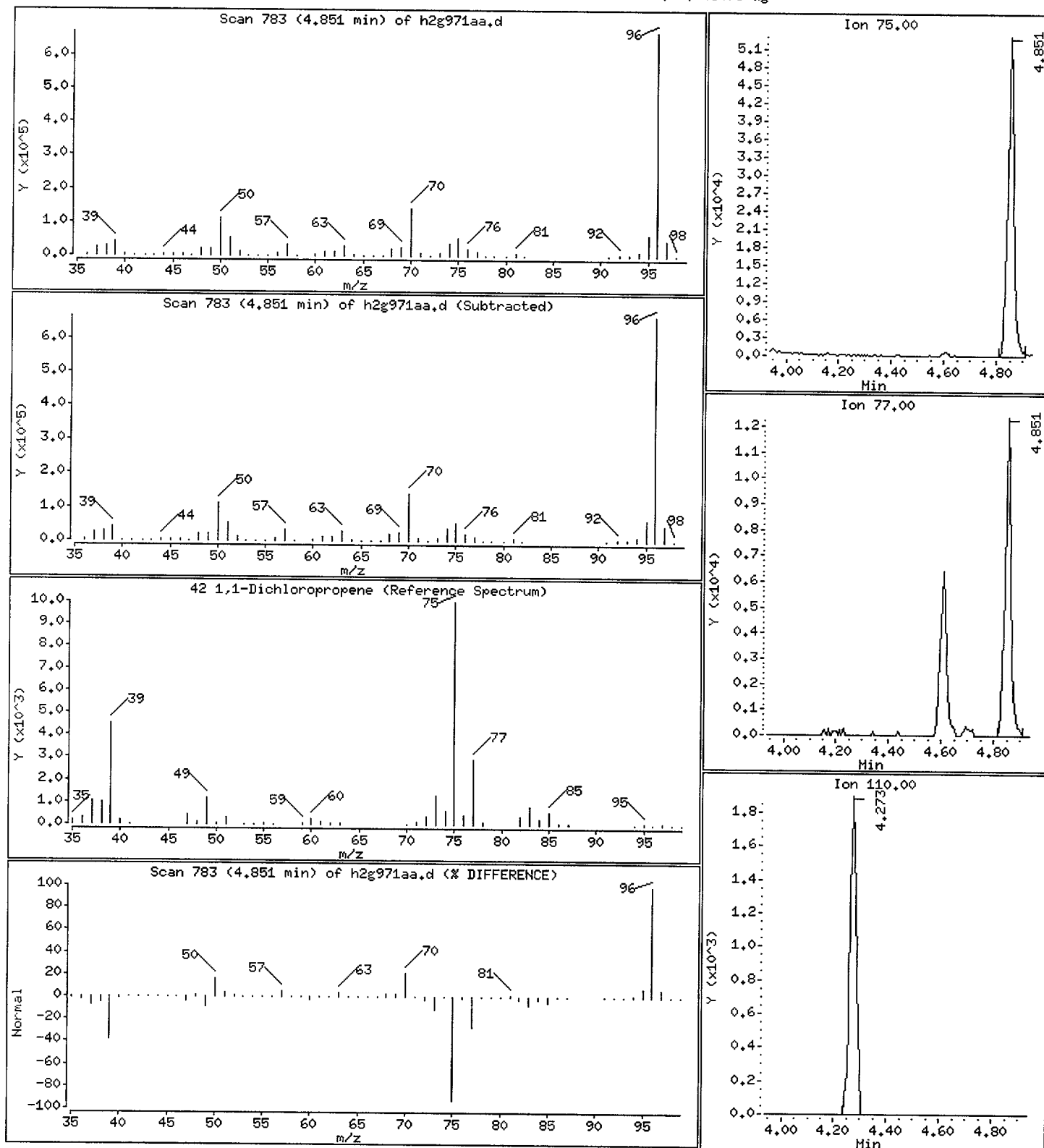
Operator: 22980

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,,,

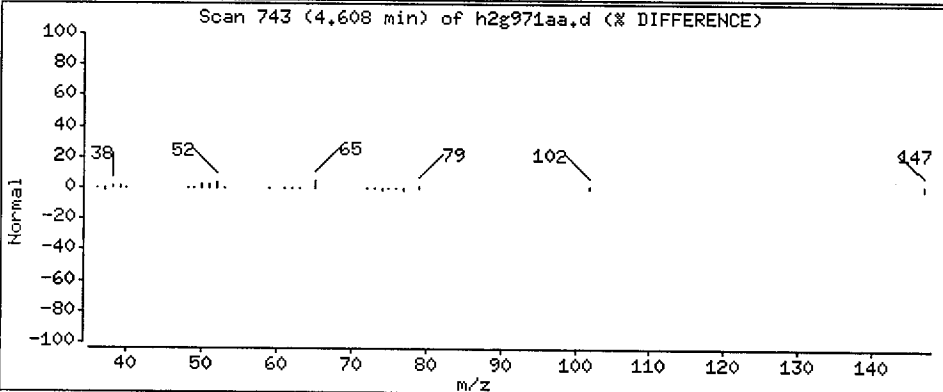
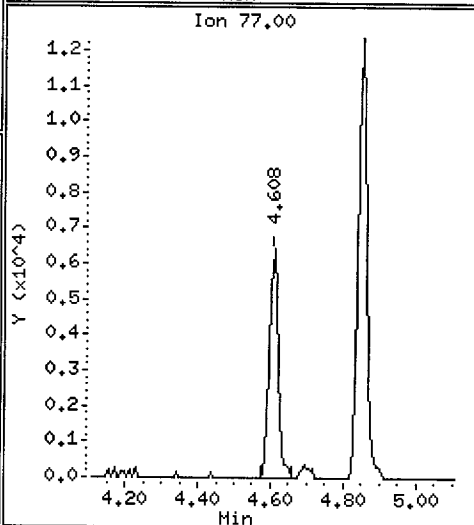
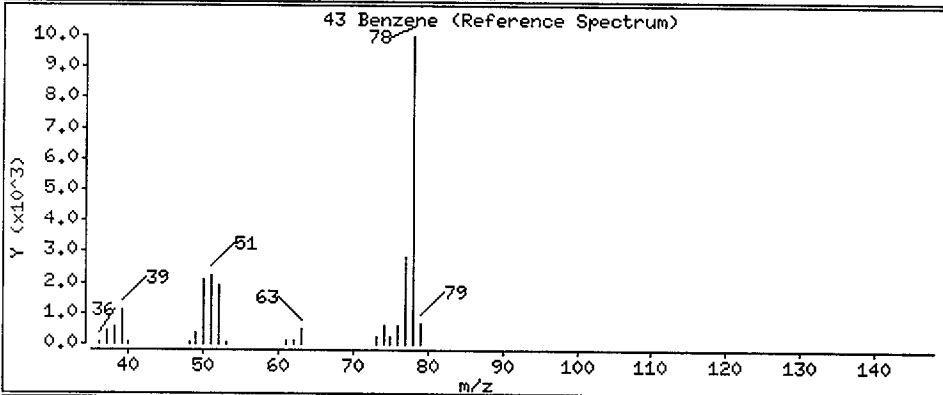
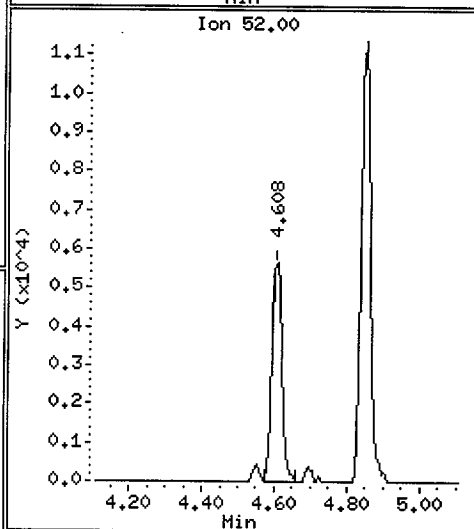
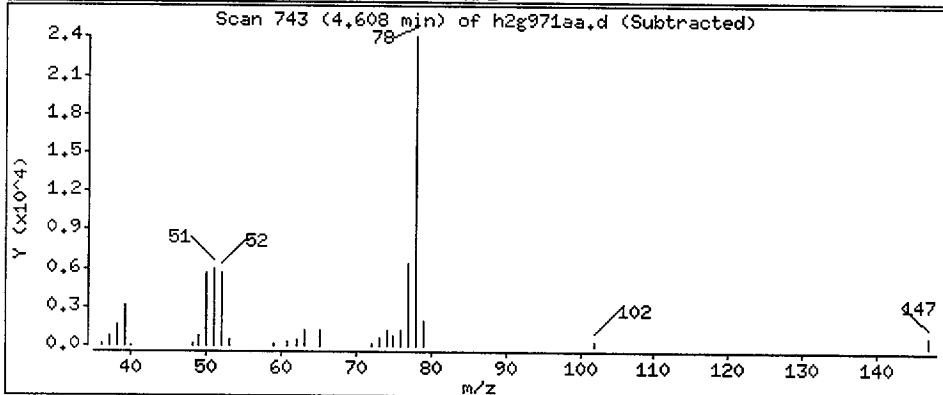
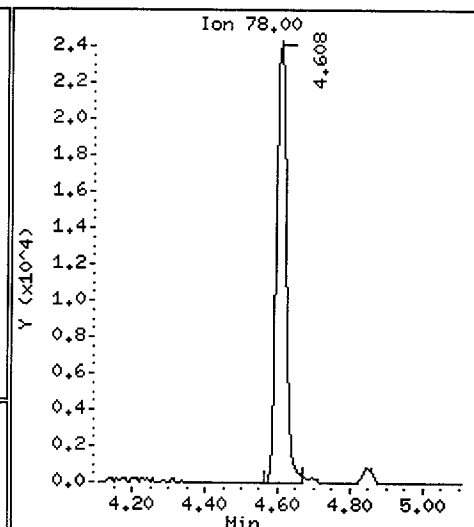
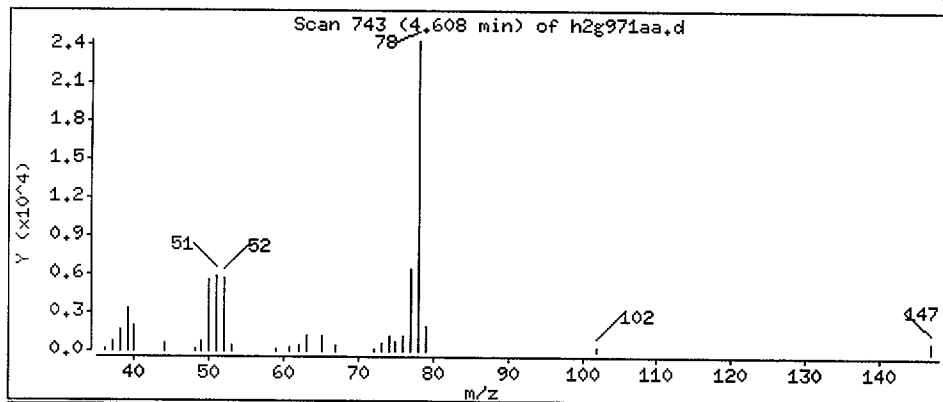
Operator: 22980

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: C-3010-R2-V0ST PAIR

Instrument: mx.i

Sample Info: H2C971AA,1,0,,,

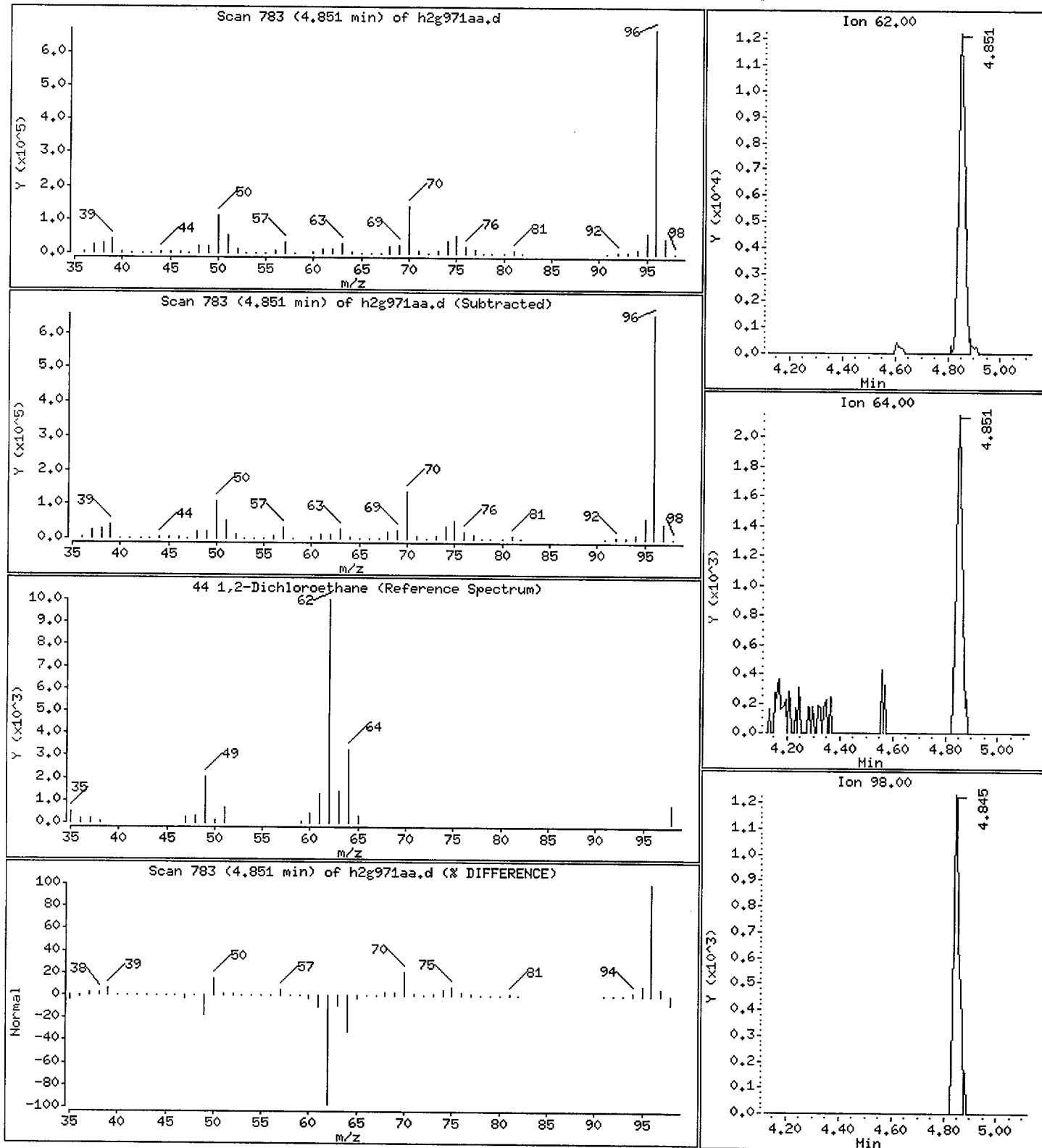
Operator: 22980

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,,,

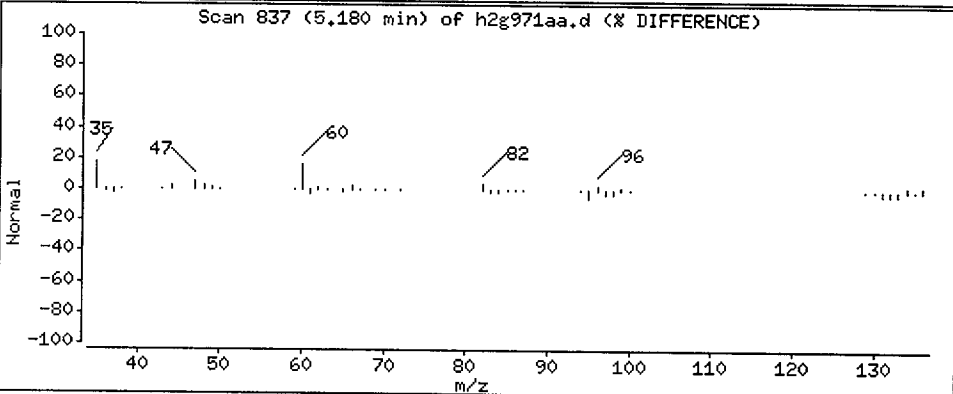
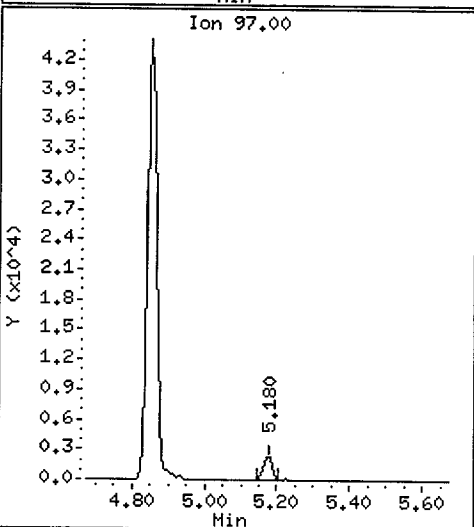
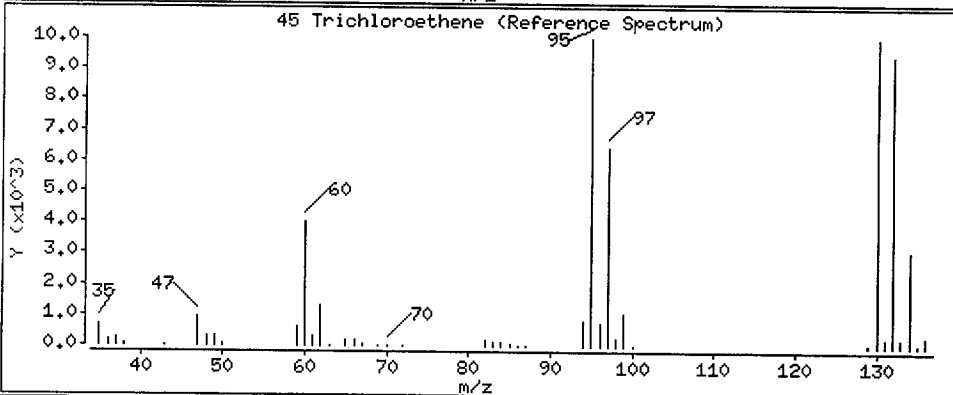
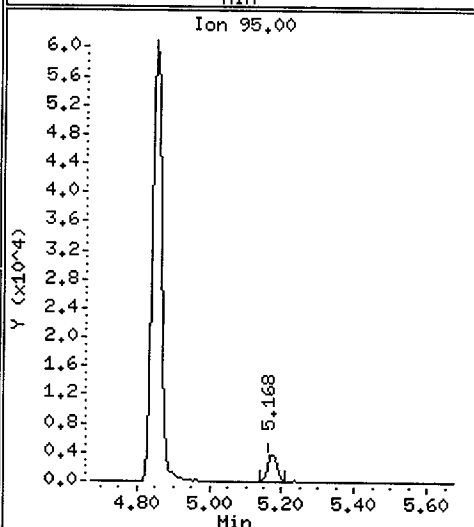
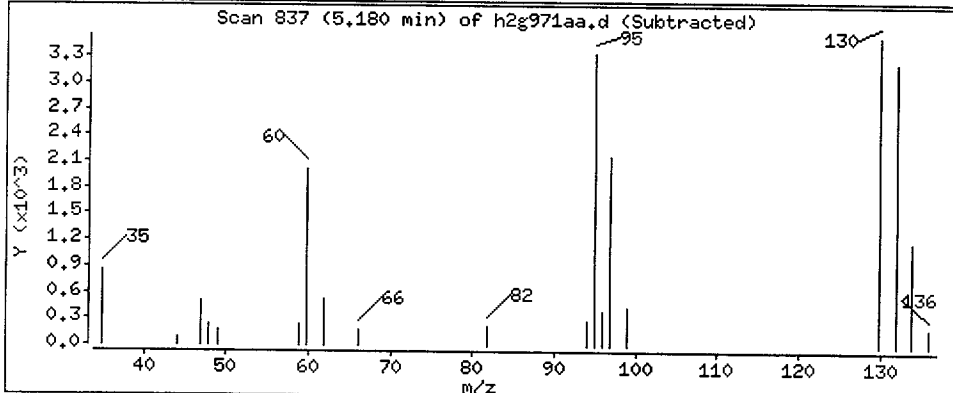
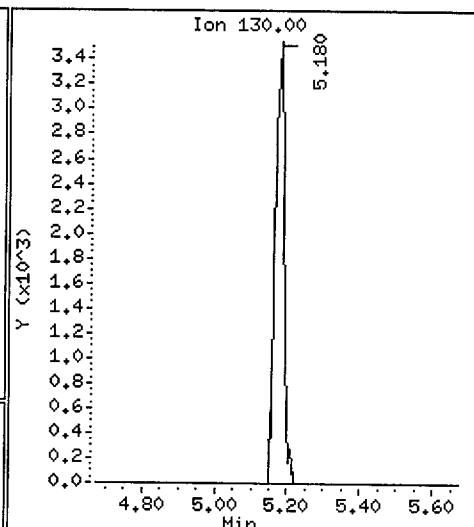
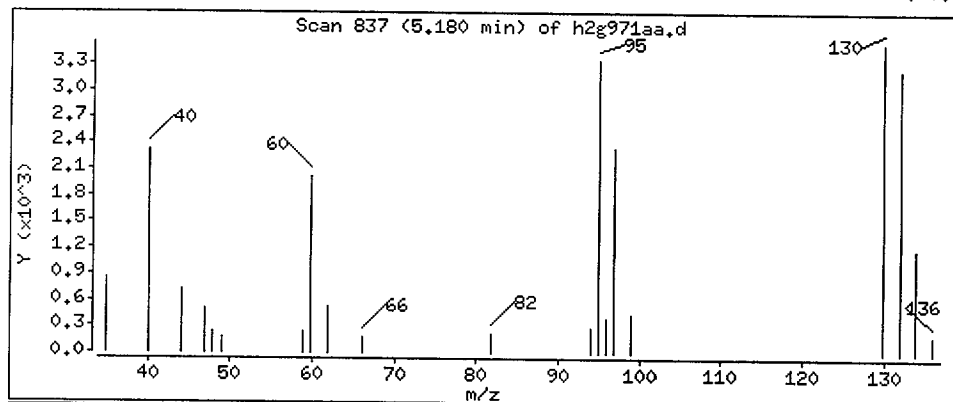
Operator: 22980

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,,,

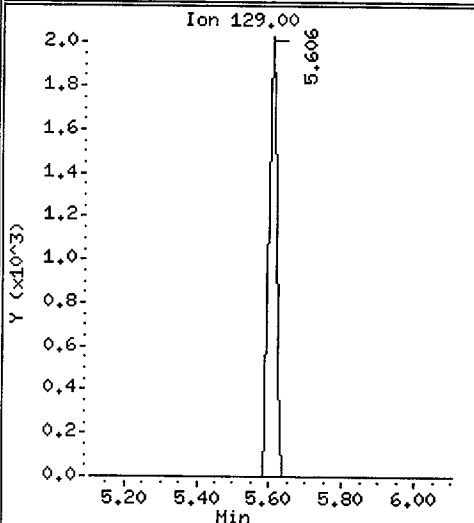
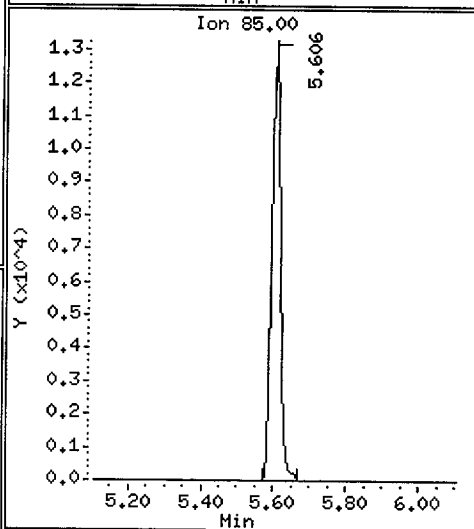
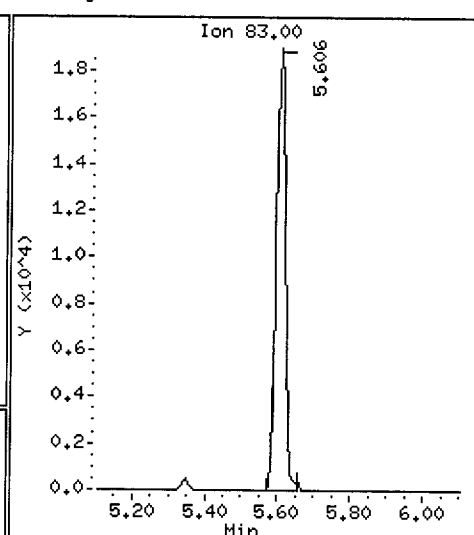
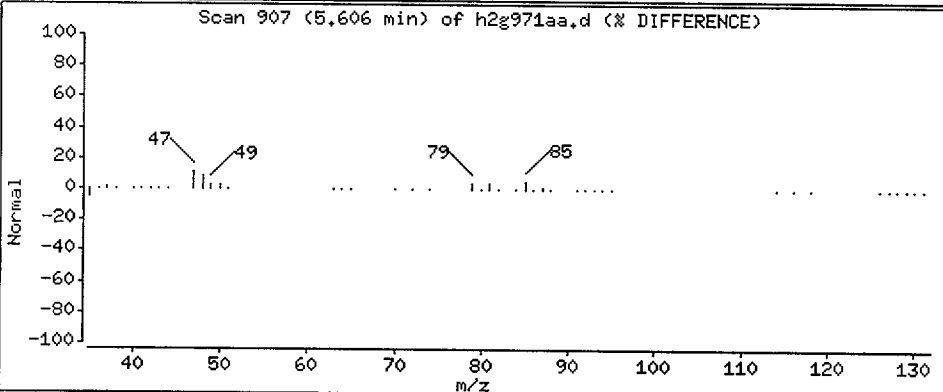
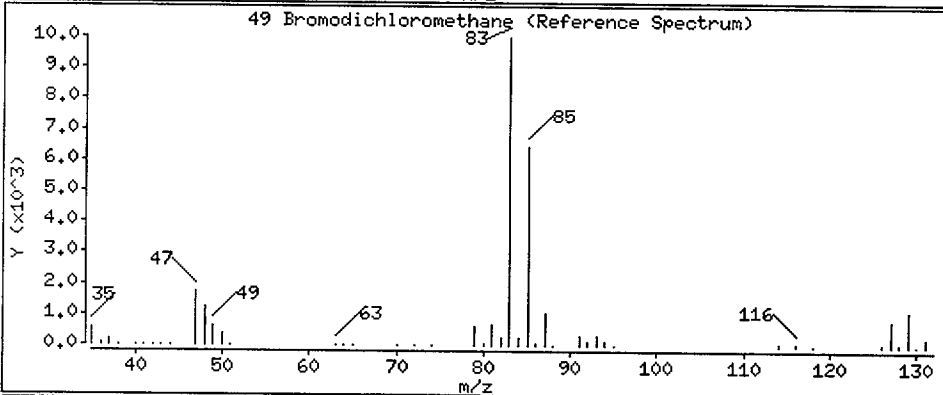
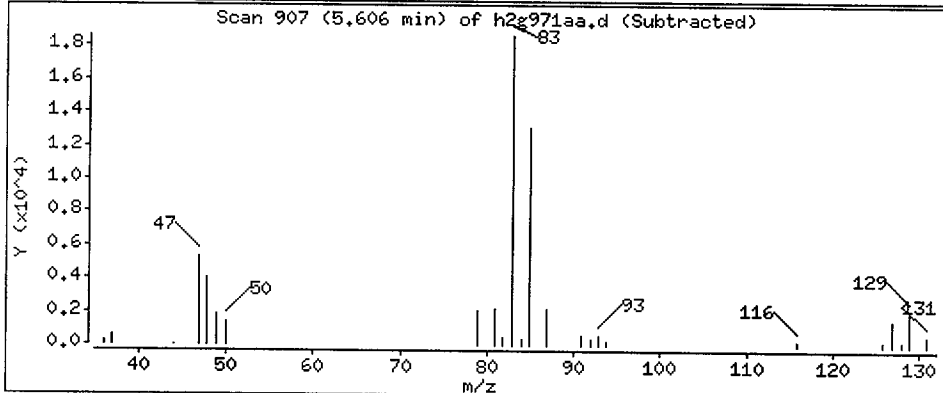
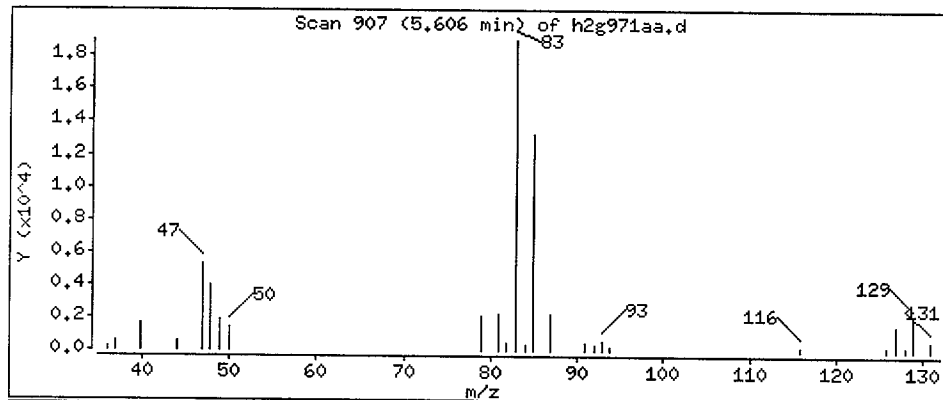
Operator: 22980

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,,,

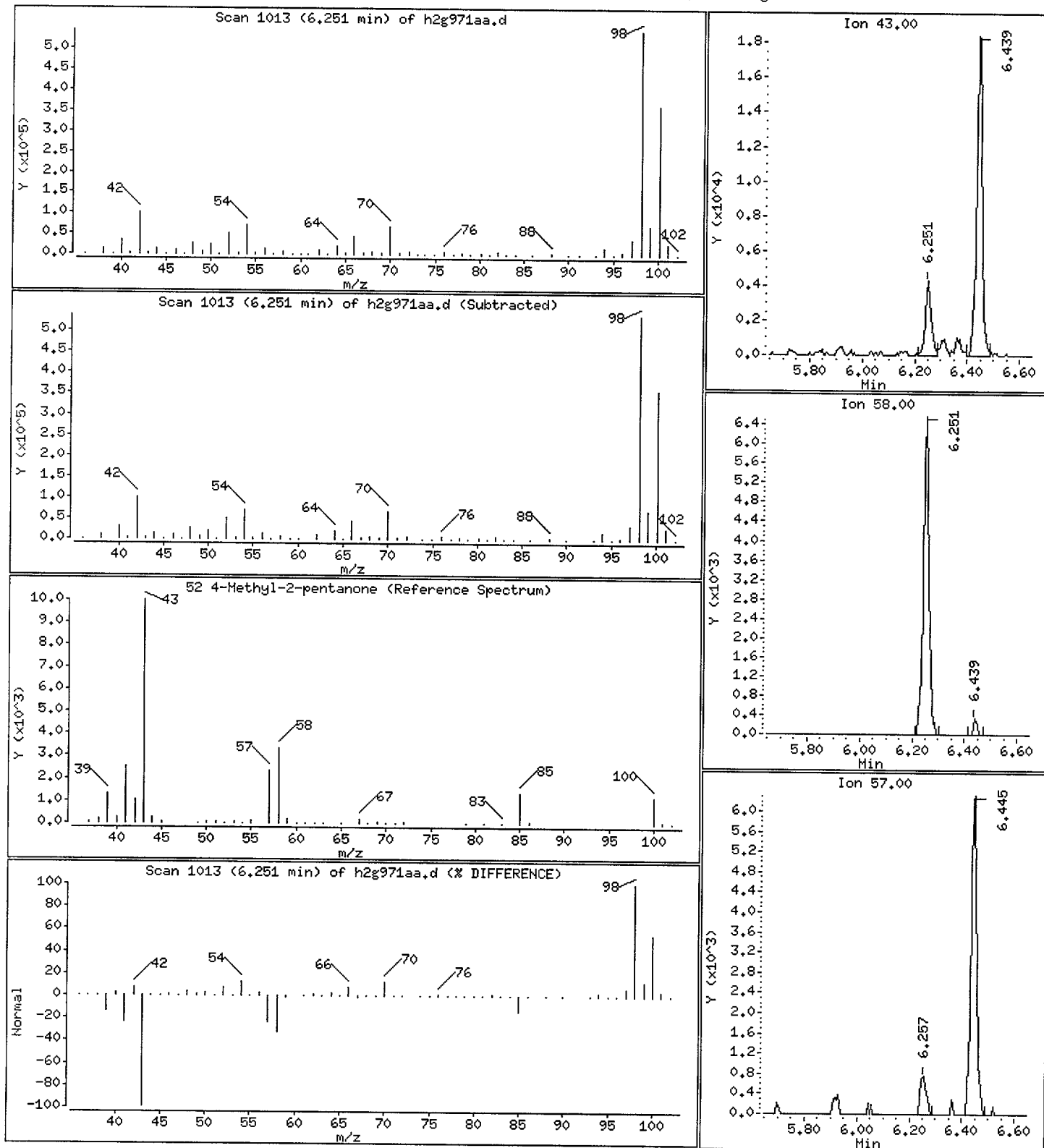
Operator: 22980

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,,

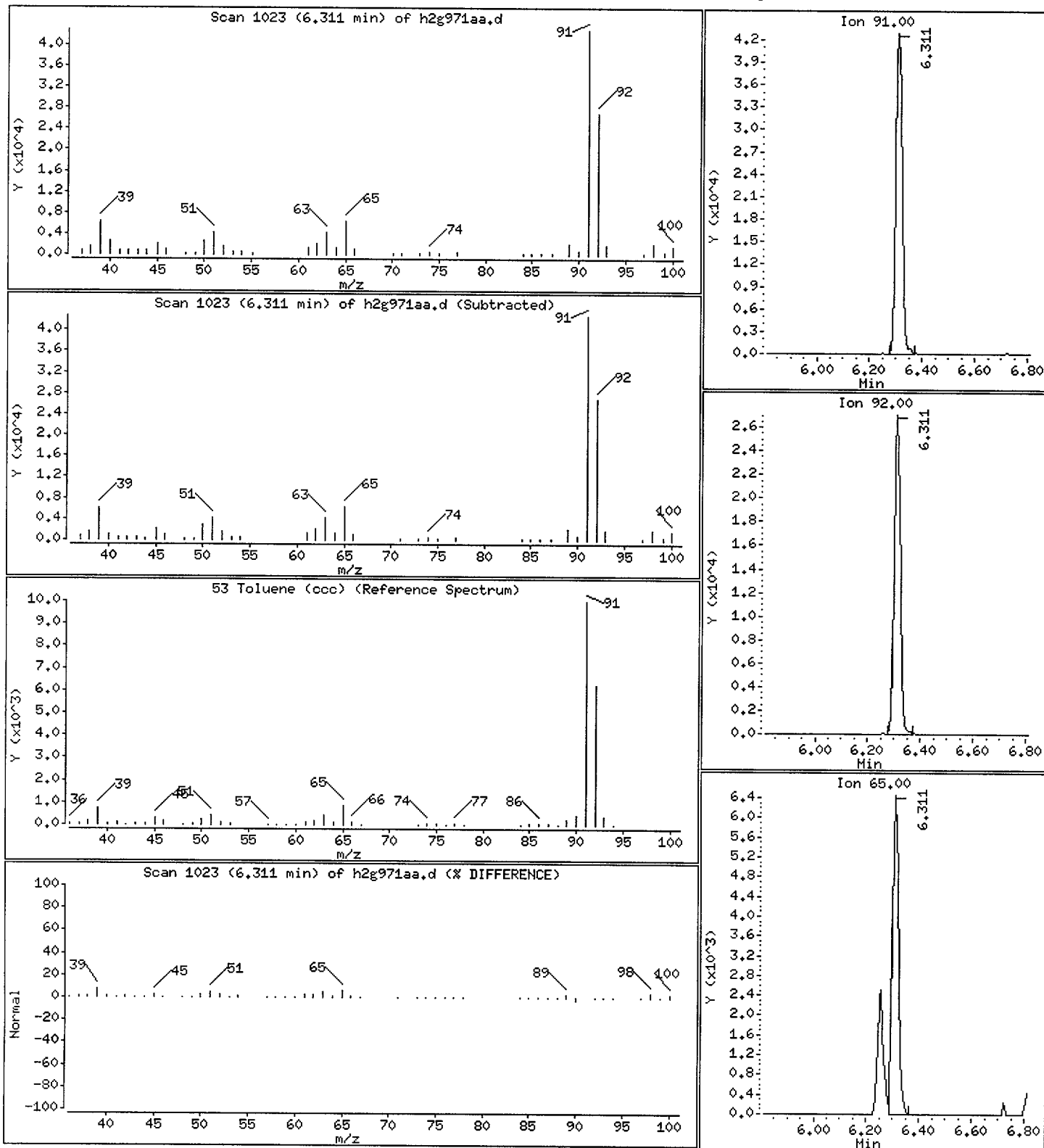
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

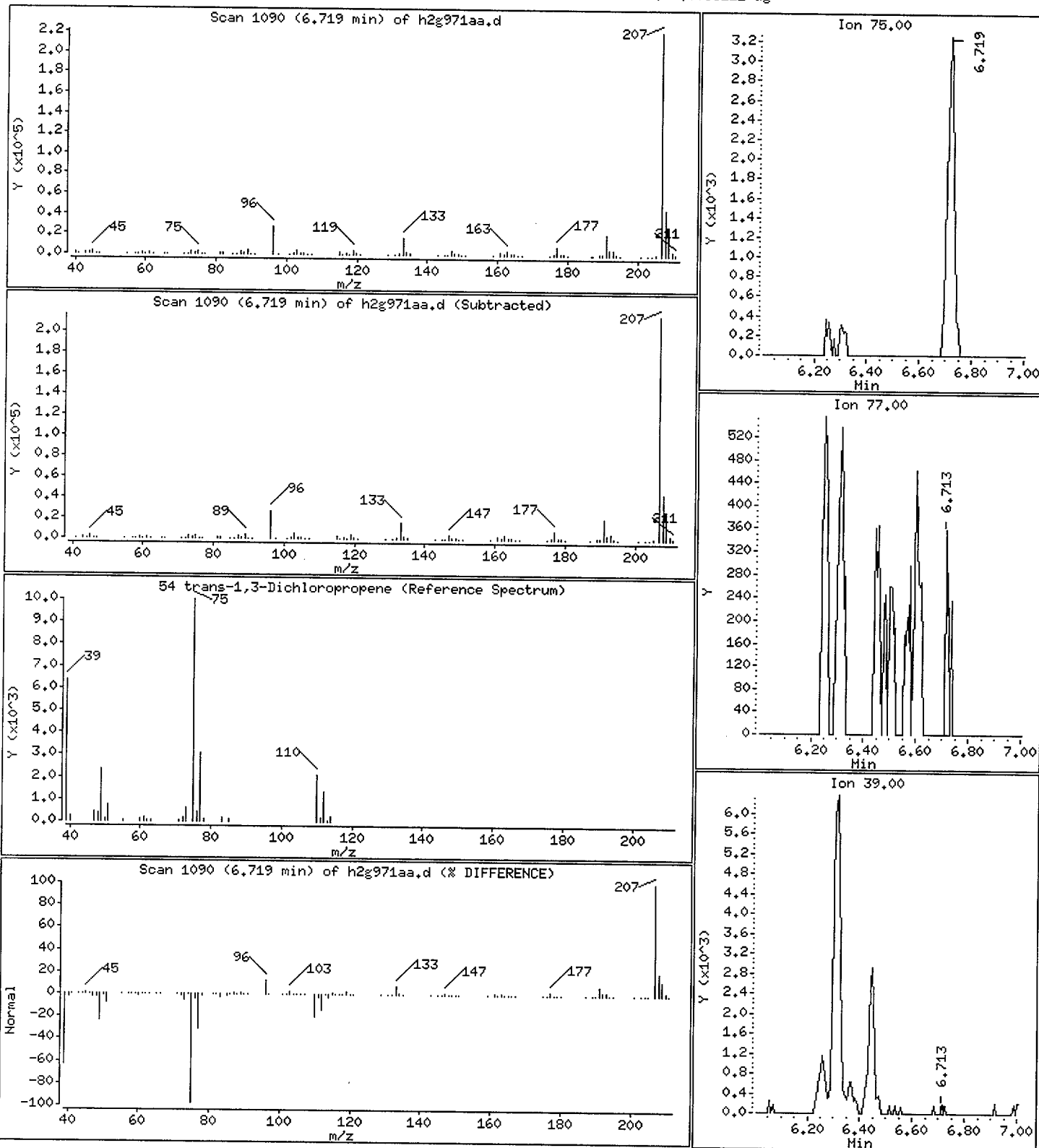
Operator: 22980

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,,,

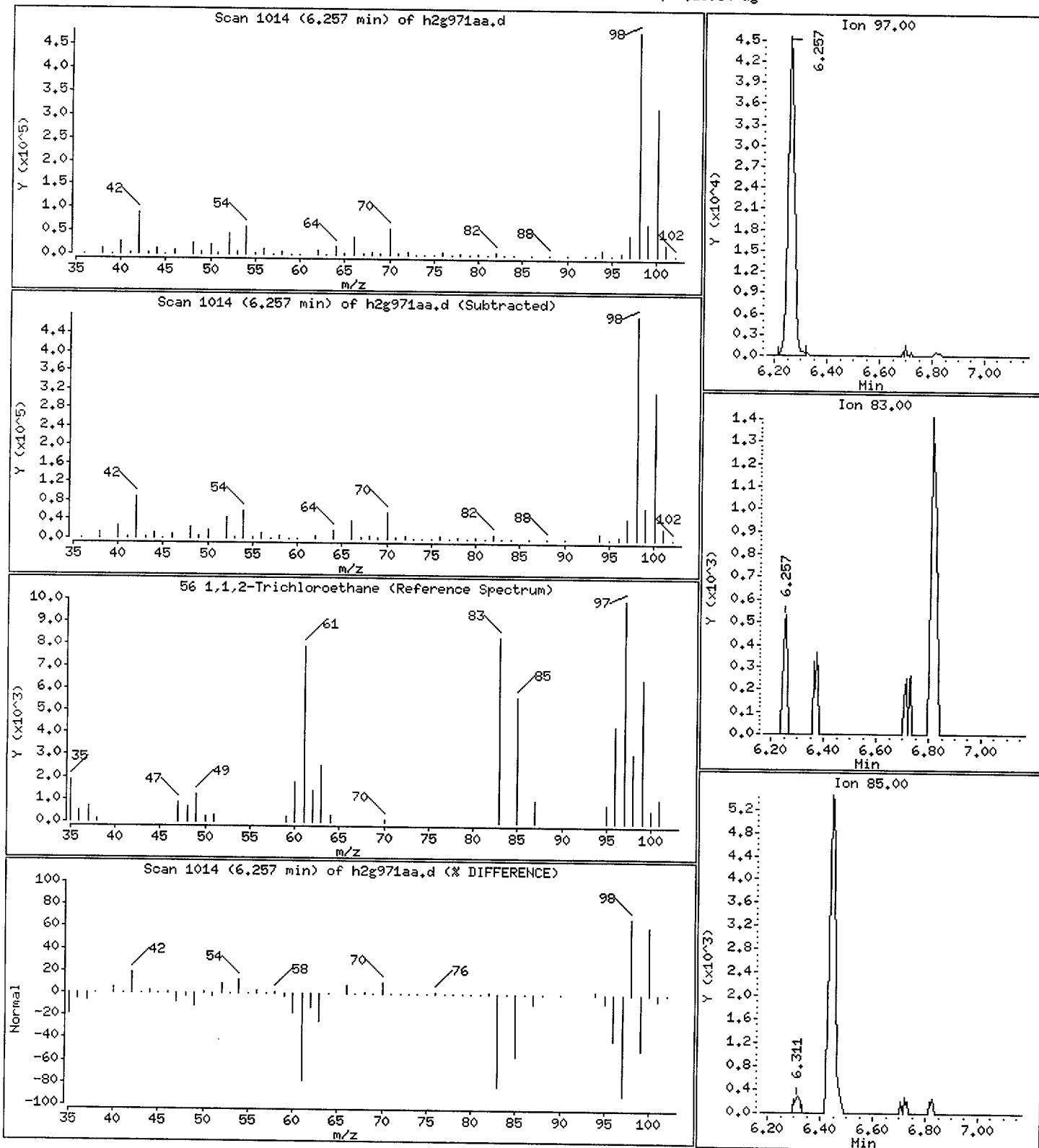
Operator: 22980

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,,,

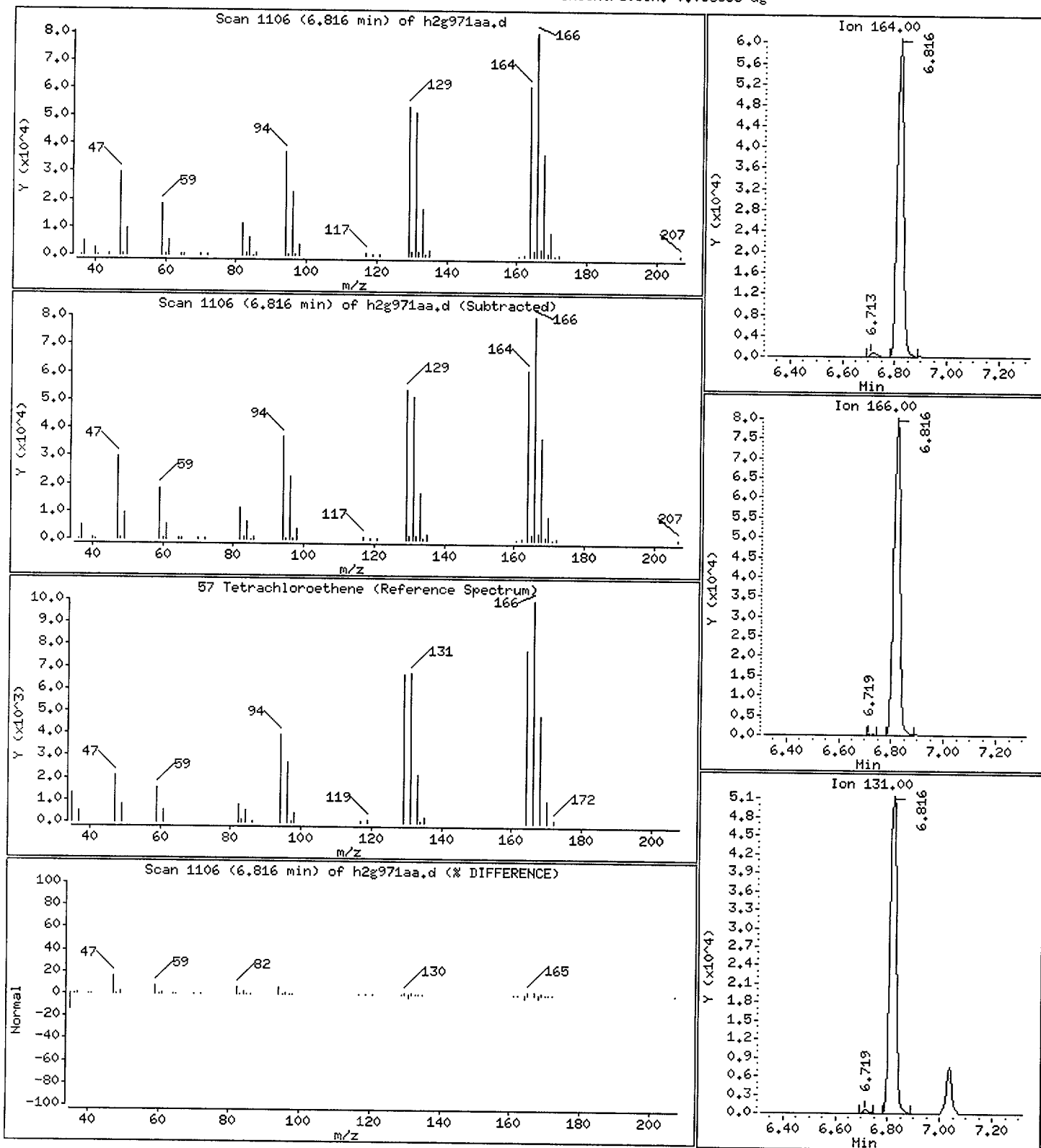
Operator: 22980

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,,,

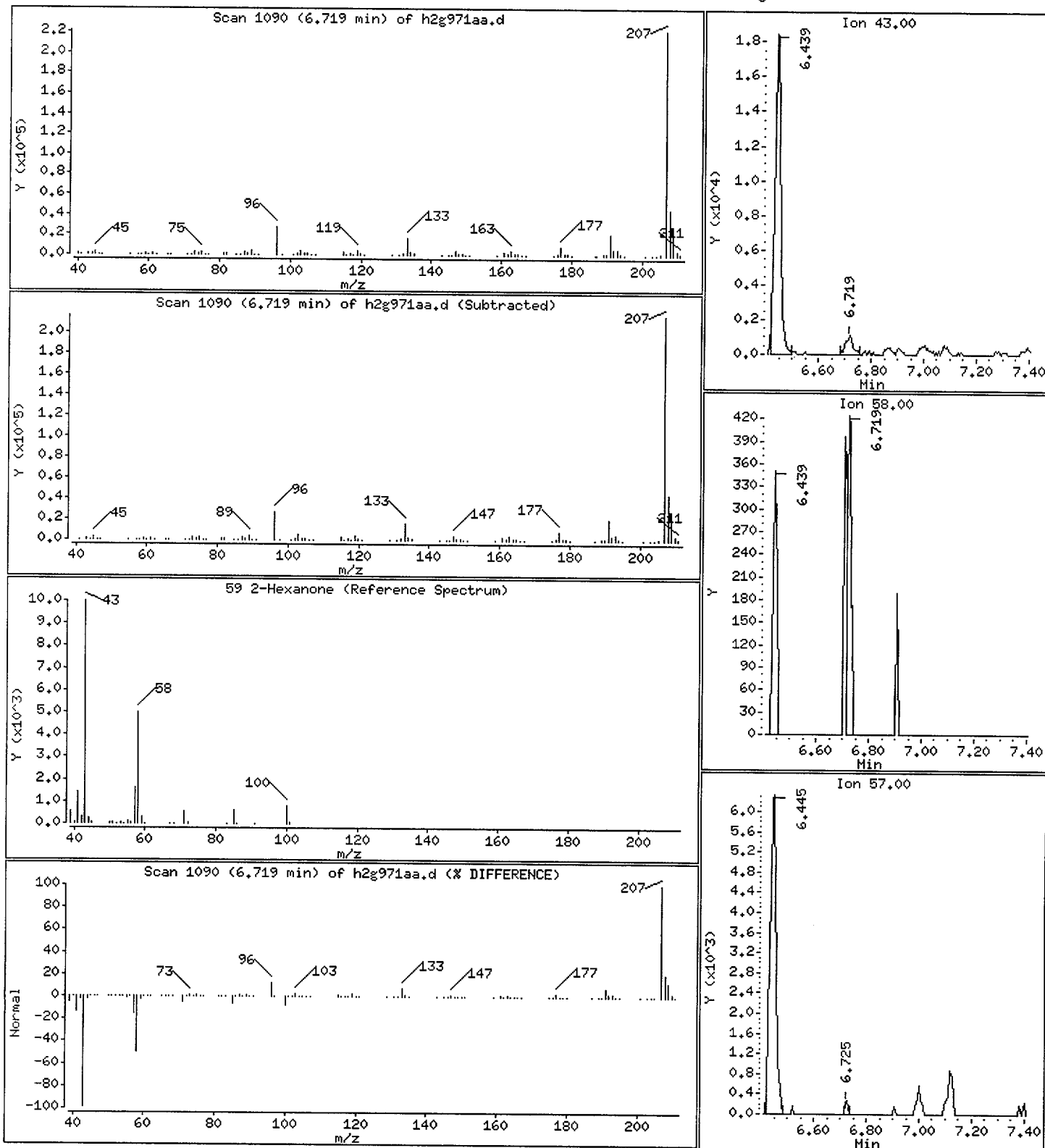
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

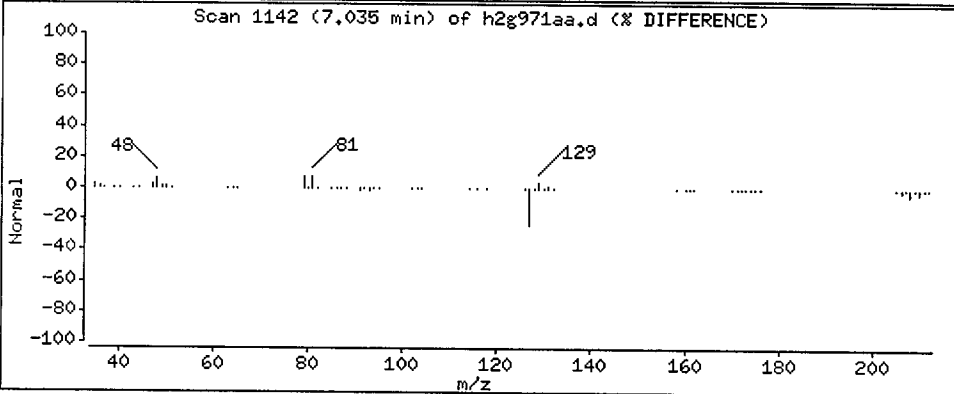
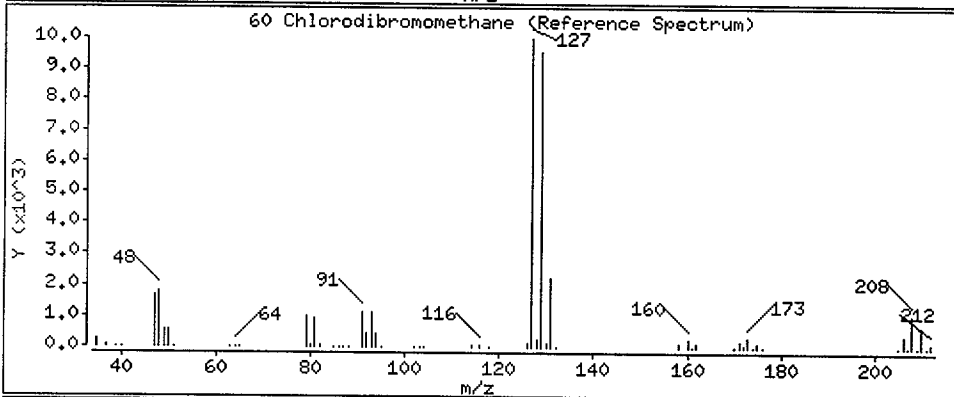
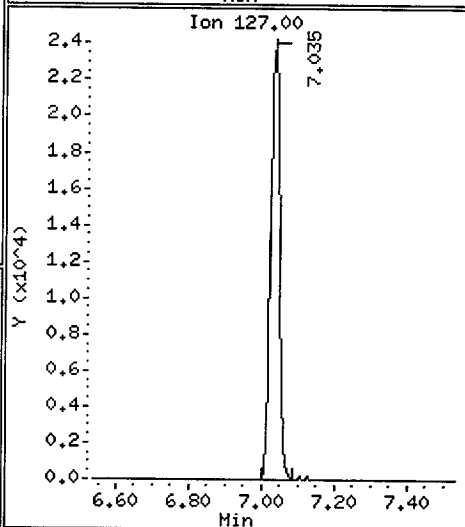
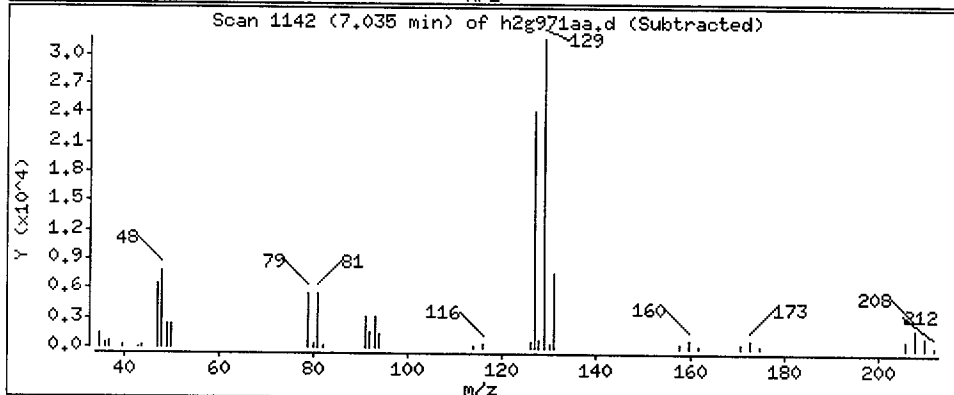
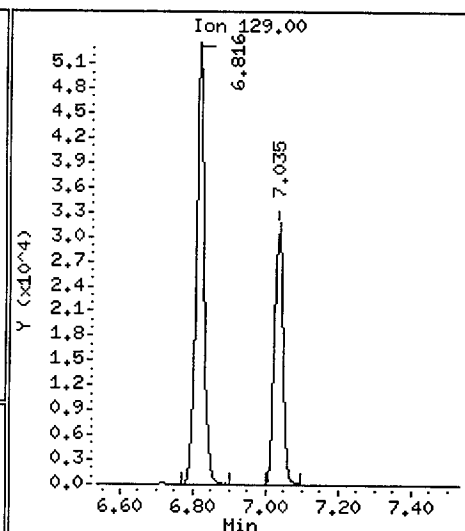
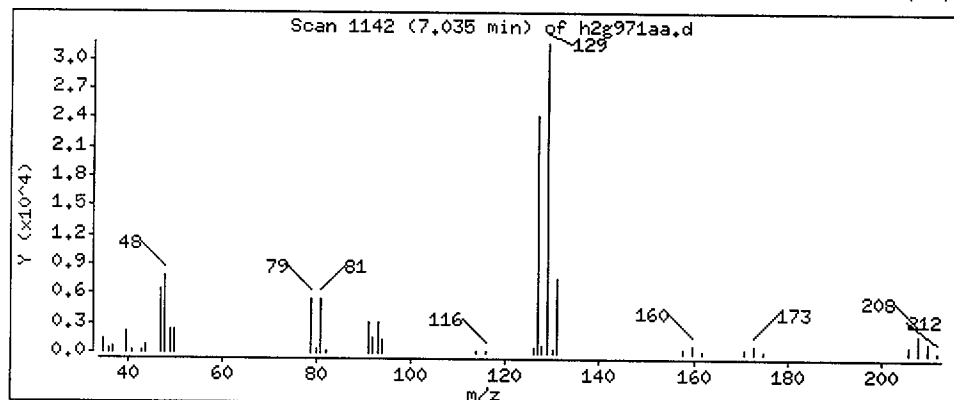
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

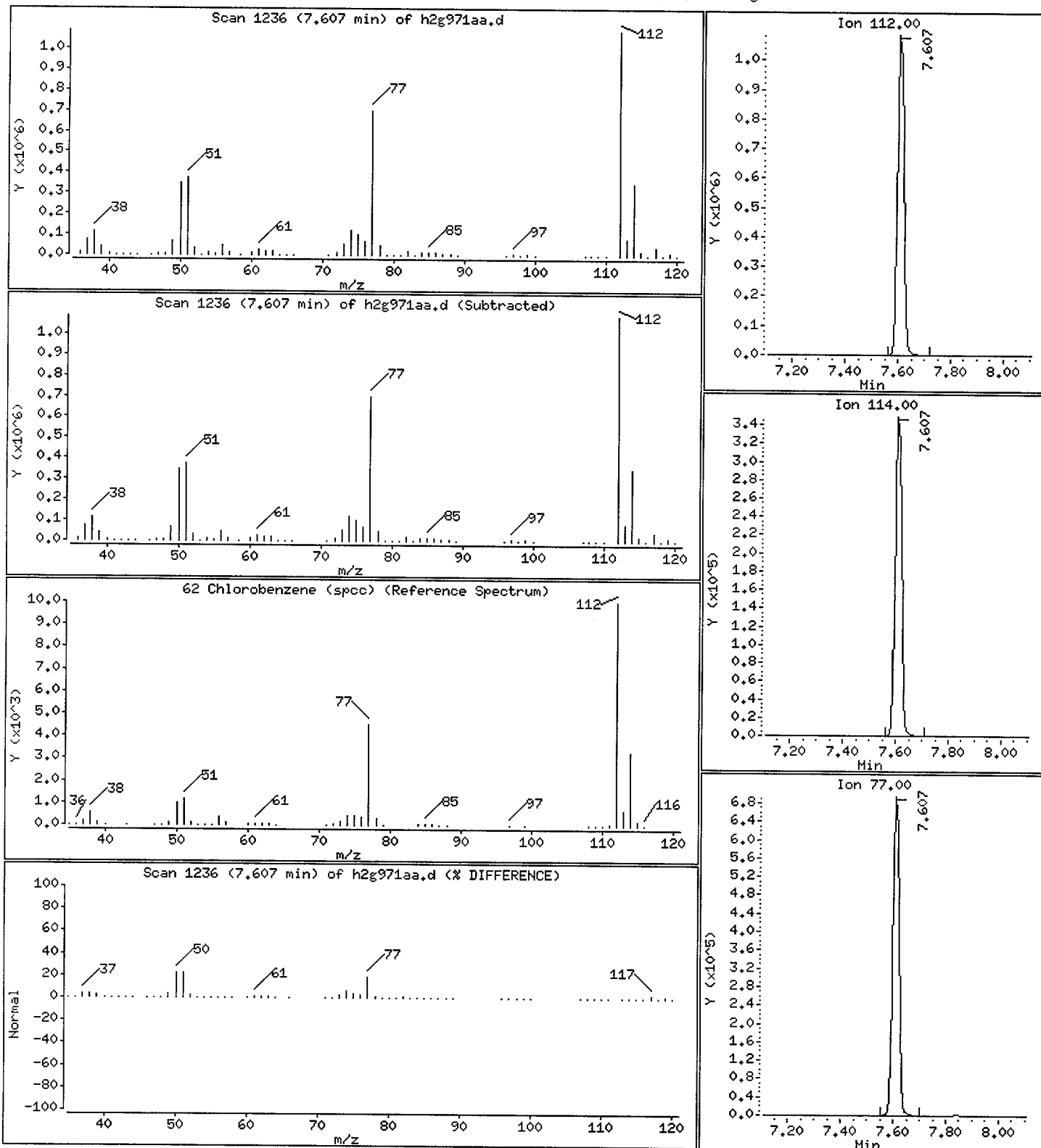
Operator: 22980

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,,,

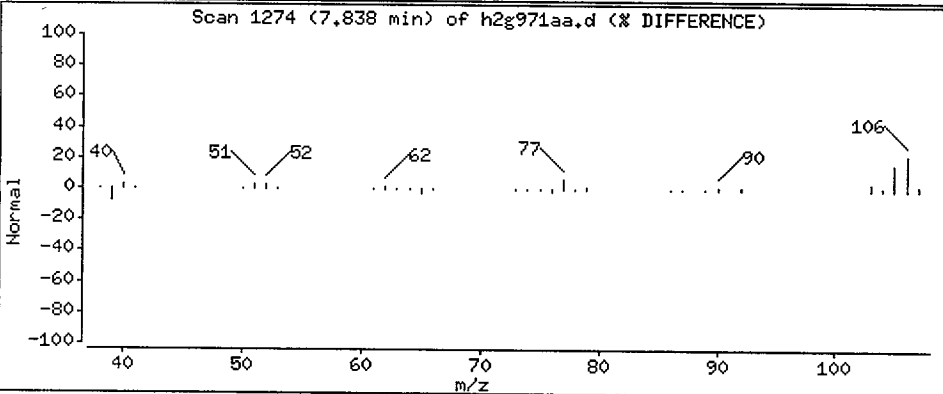
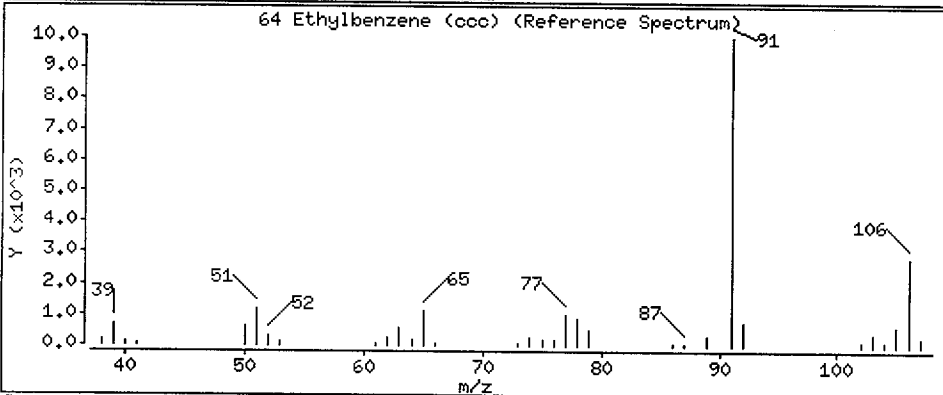
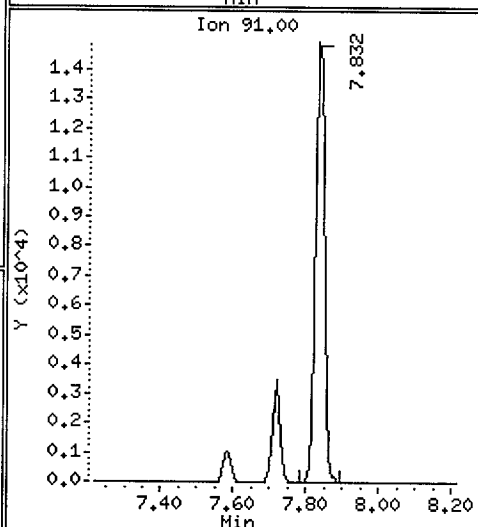
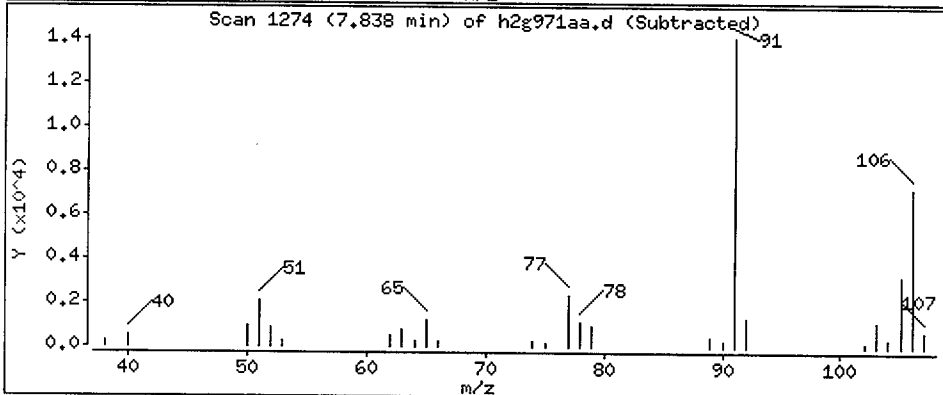
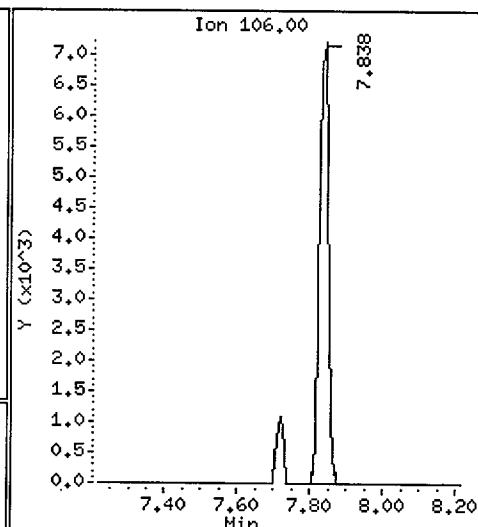
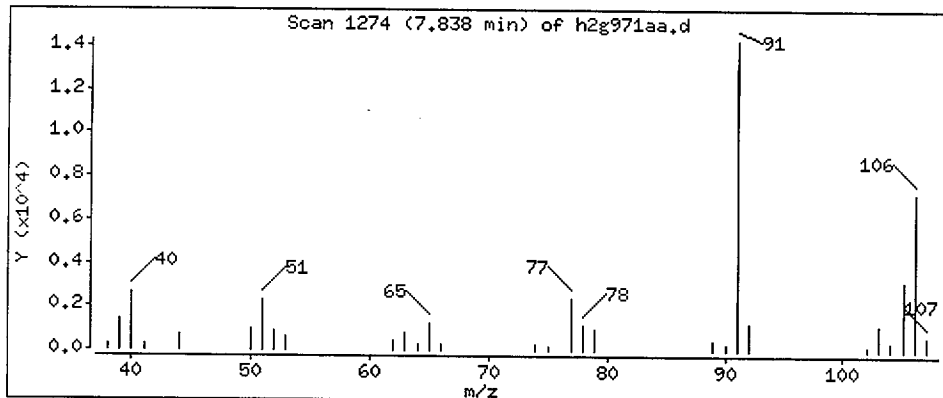
Operator: 22980

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: H2C971AA,1,0,,,

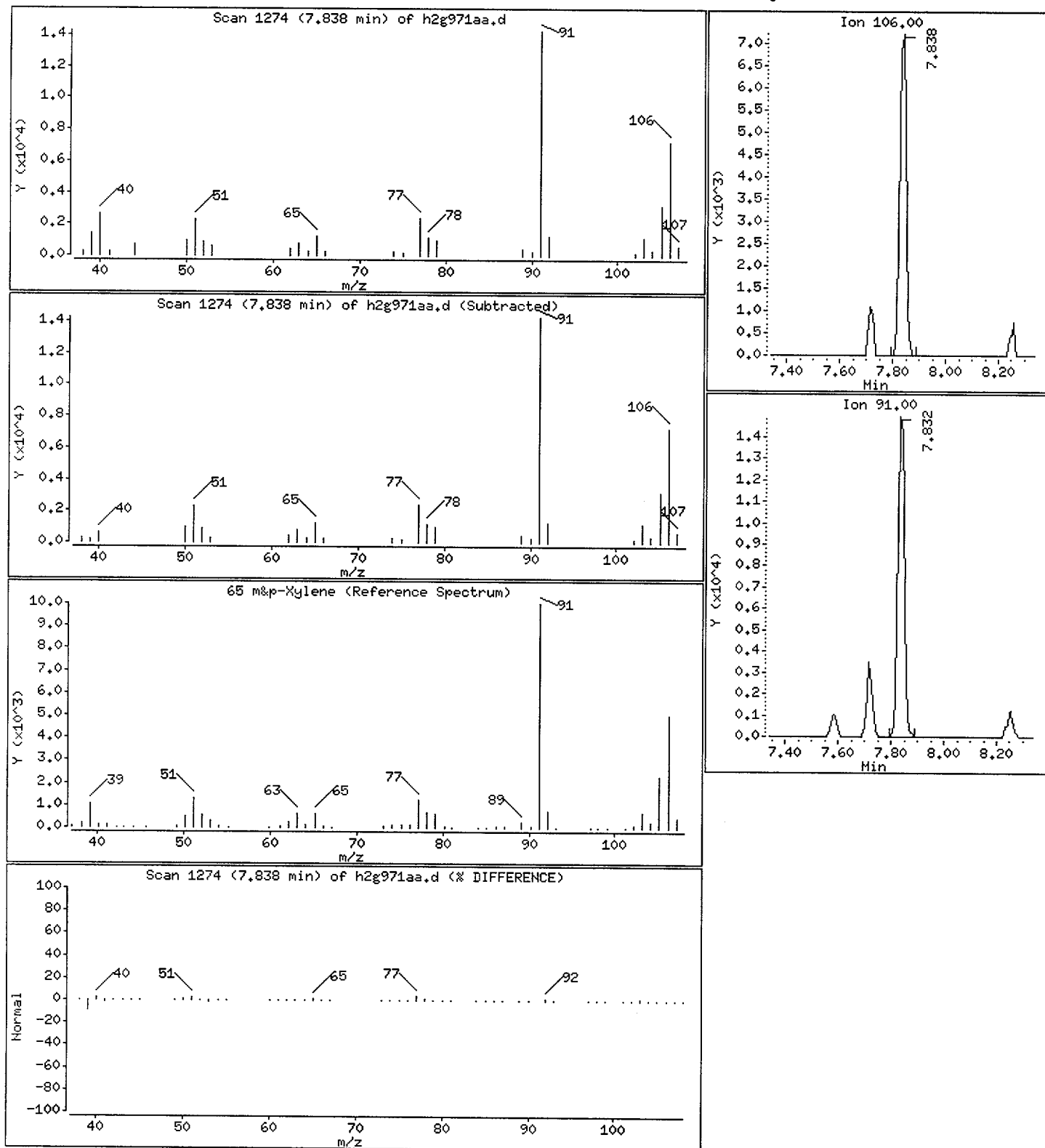
Operator: 22980

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,,,

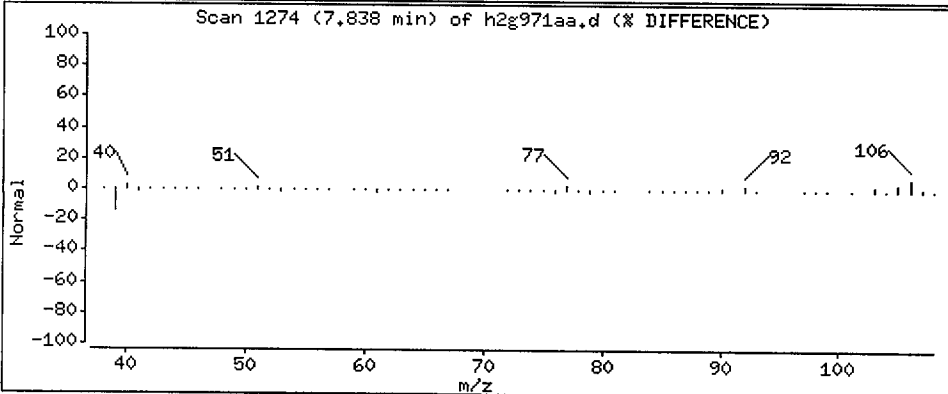
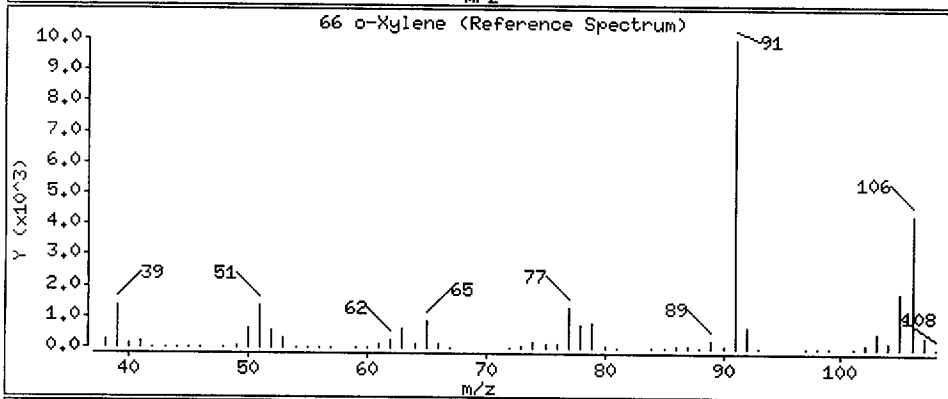
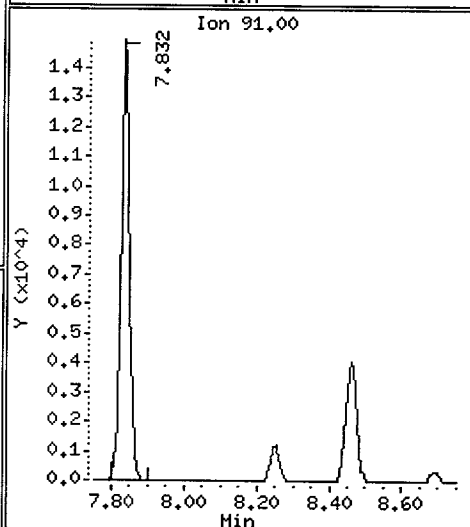
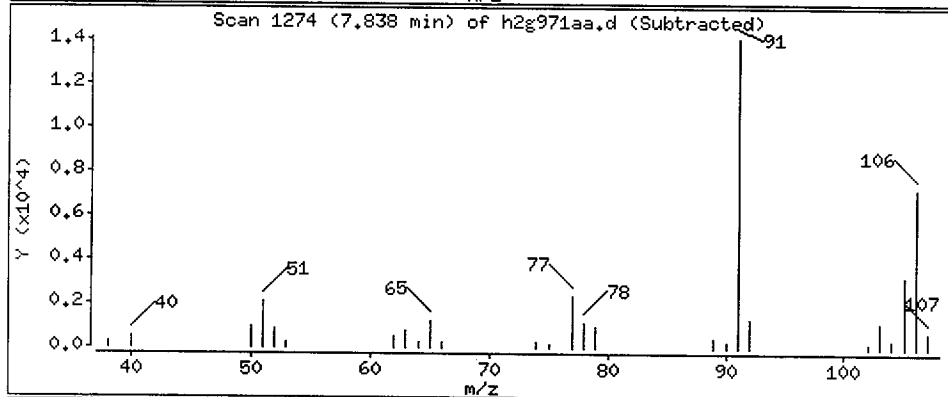
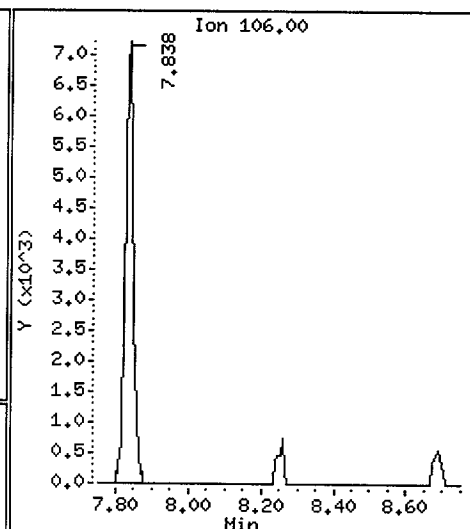
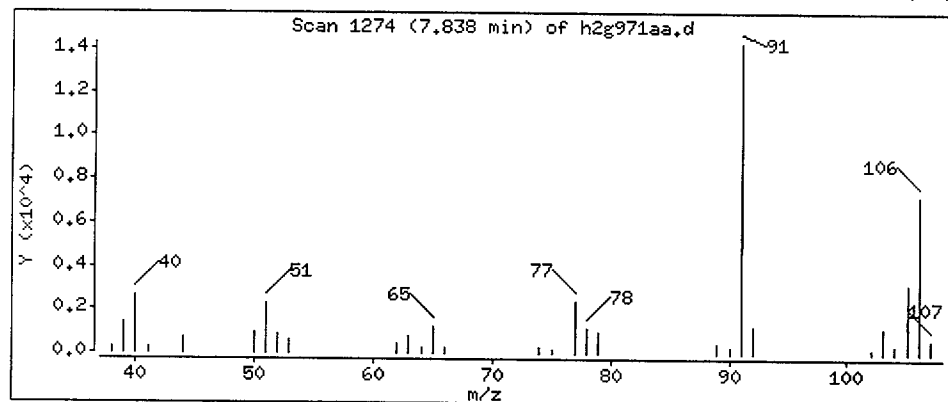
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

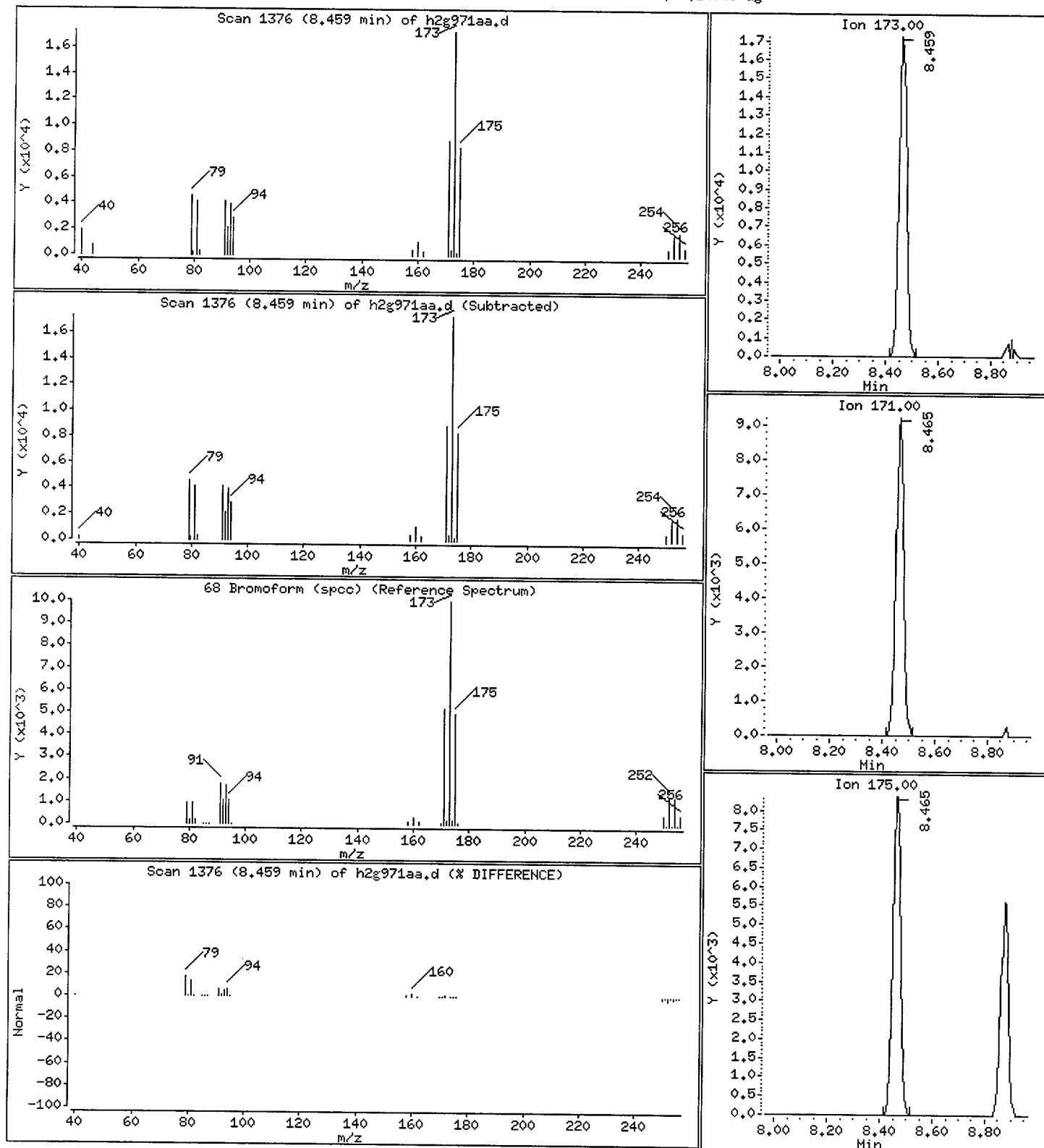
Operator: 22980

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,,,

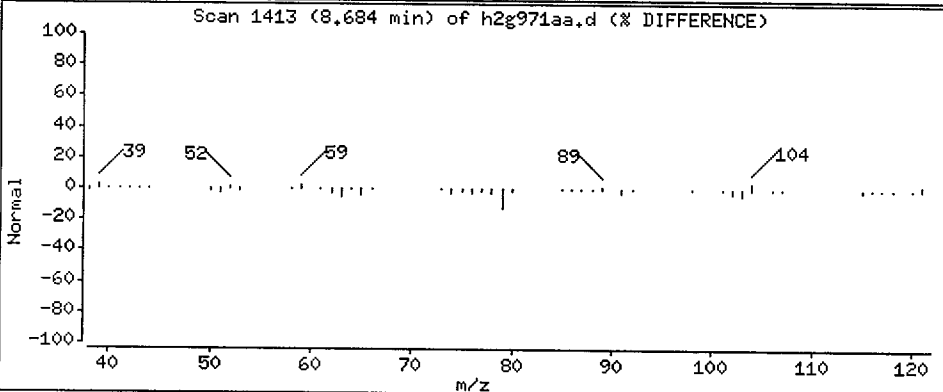
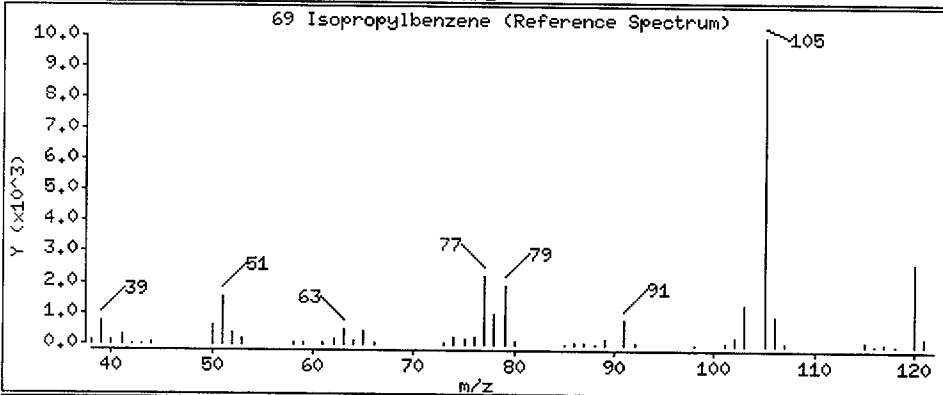
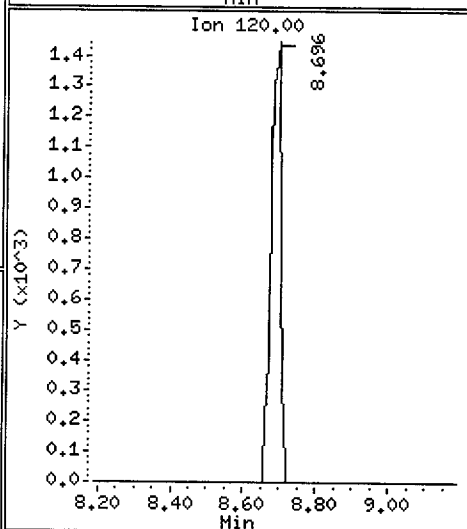
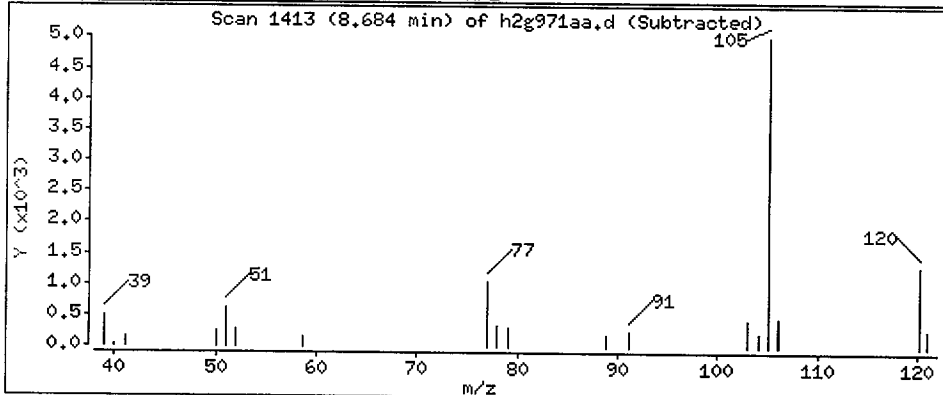
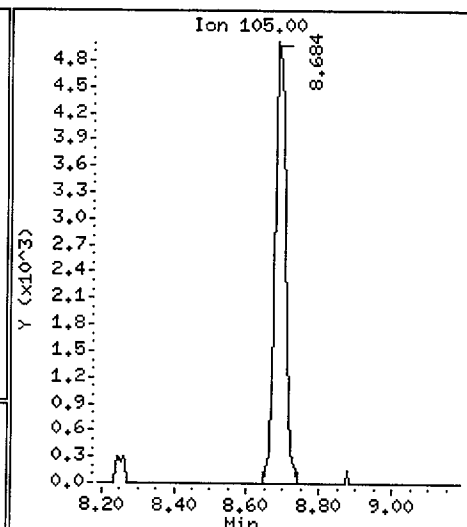
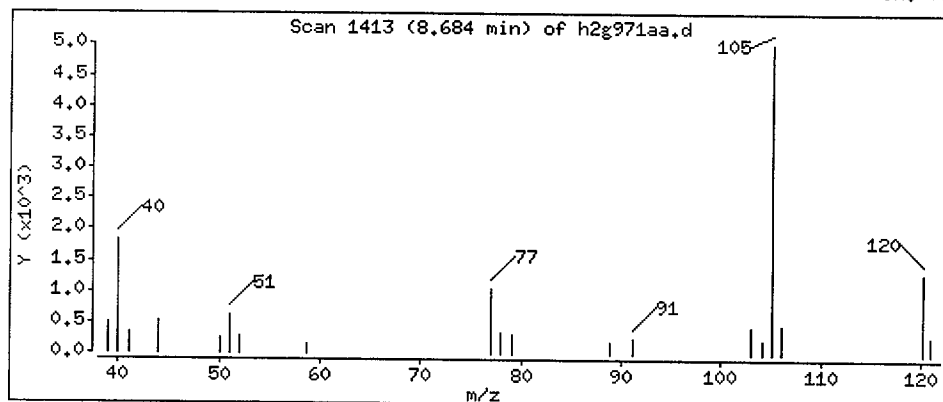
Operator: 22980

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,,,

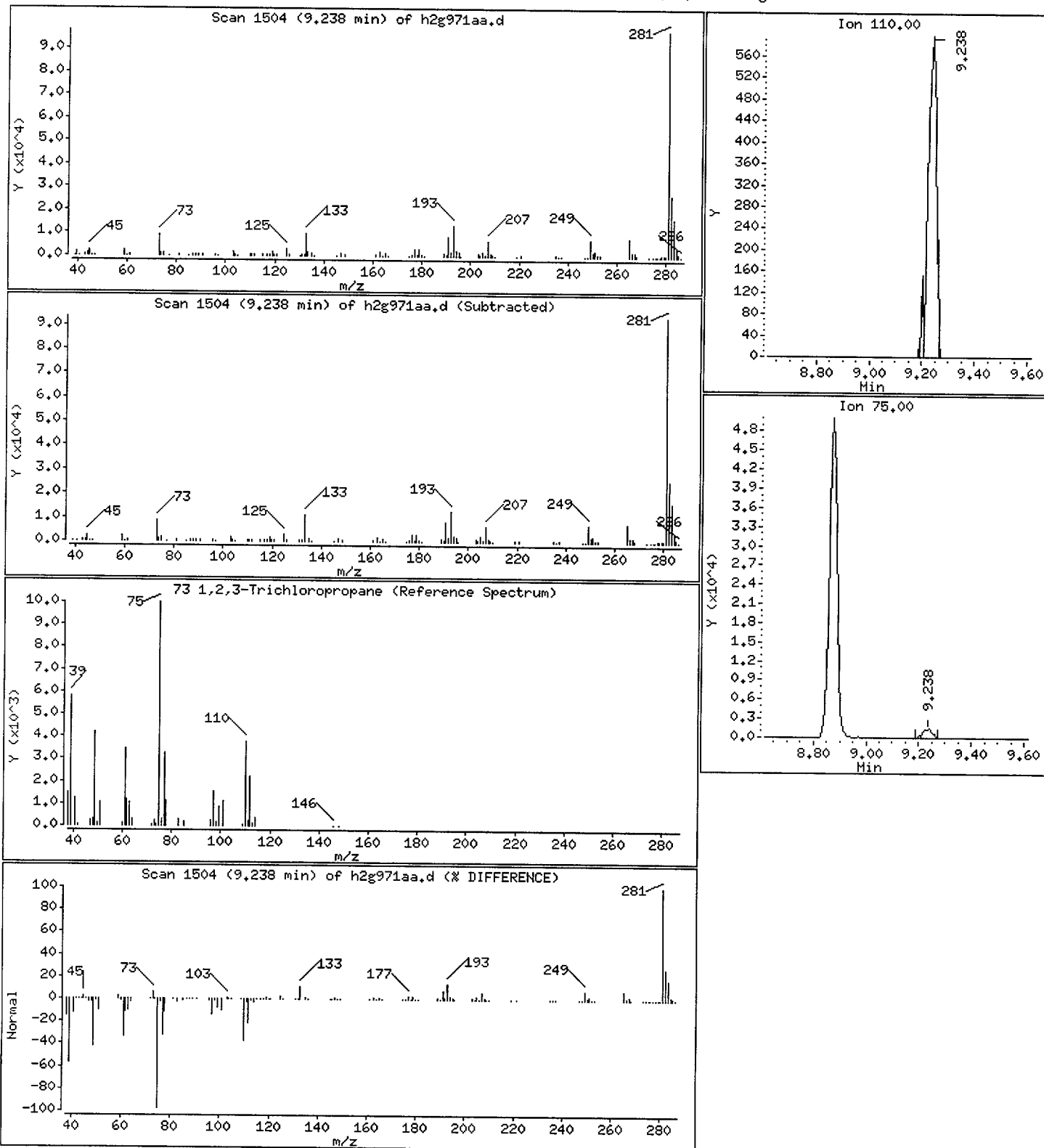
Operator: 22980

Column phase: J+W 624

Column diameter: 0.18

73 1,2,3-Trichloropropane

Concentration: 0.014673 ug



Data File: /chem/gcms/mx.i/X040706.b/h2g971aa.d

Date : 07-APR-2006 13:51

Client ID: C-3010-R2-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

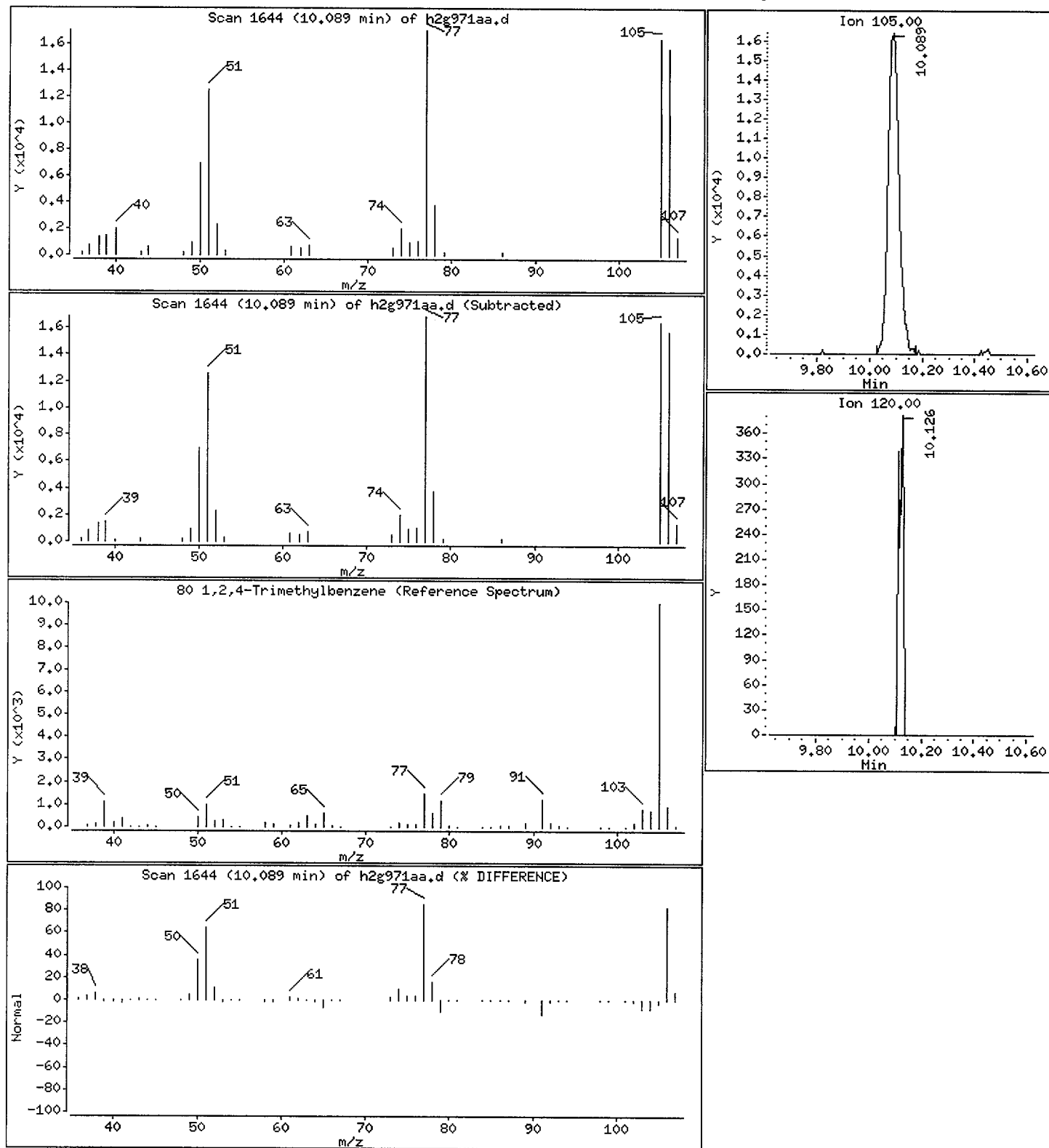
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

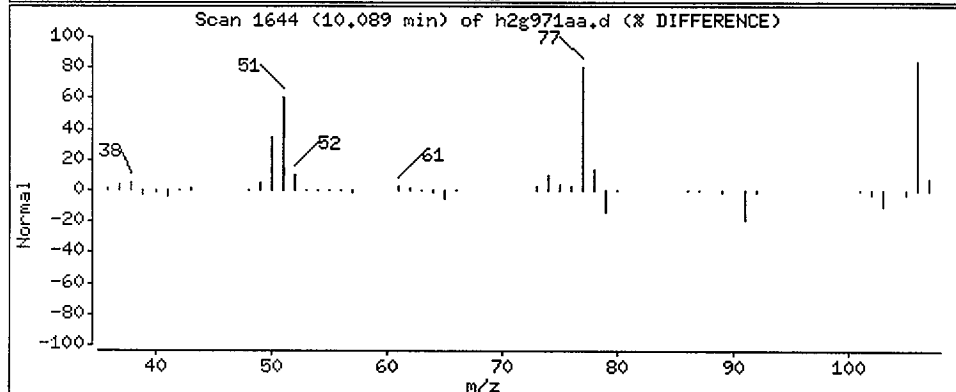
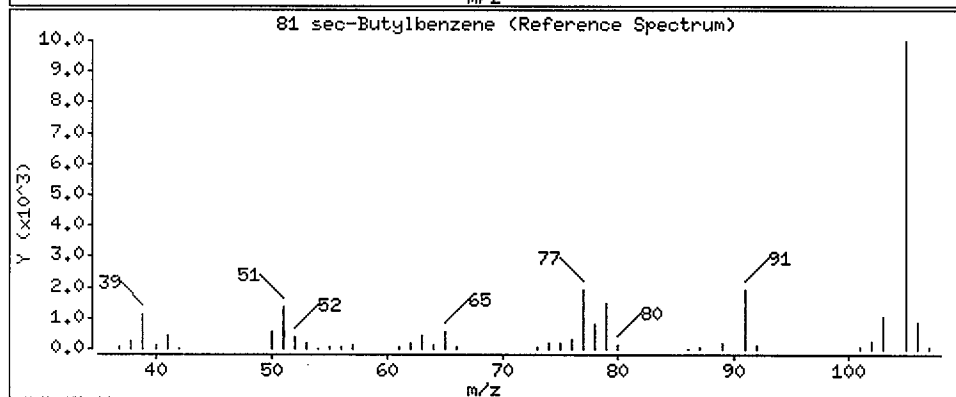
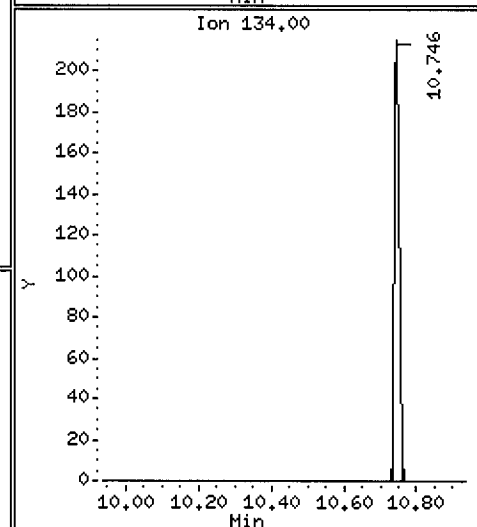
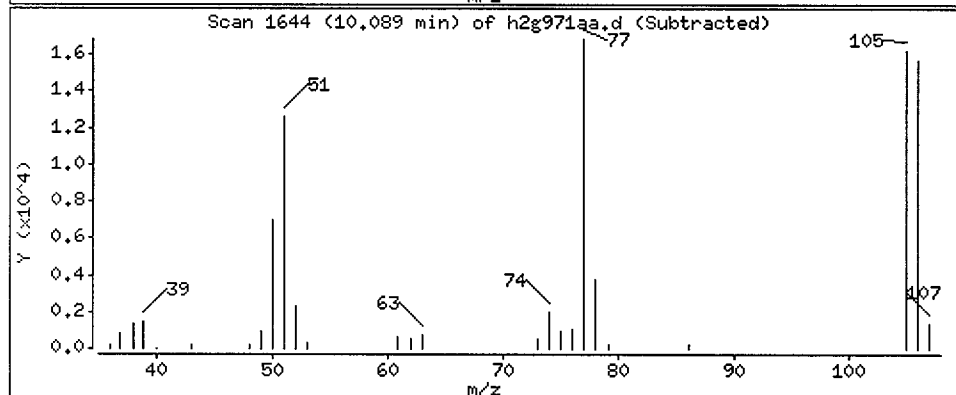
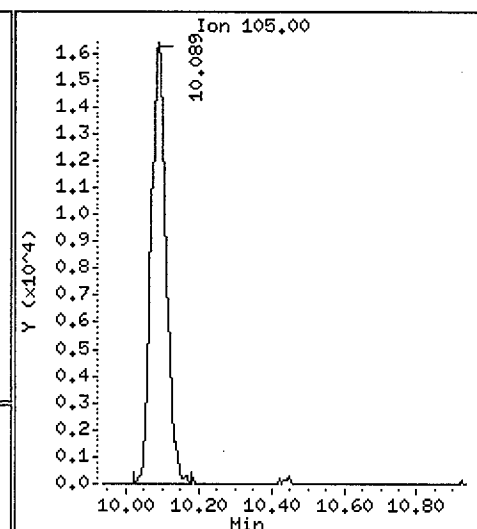
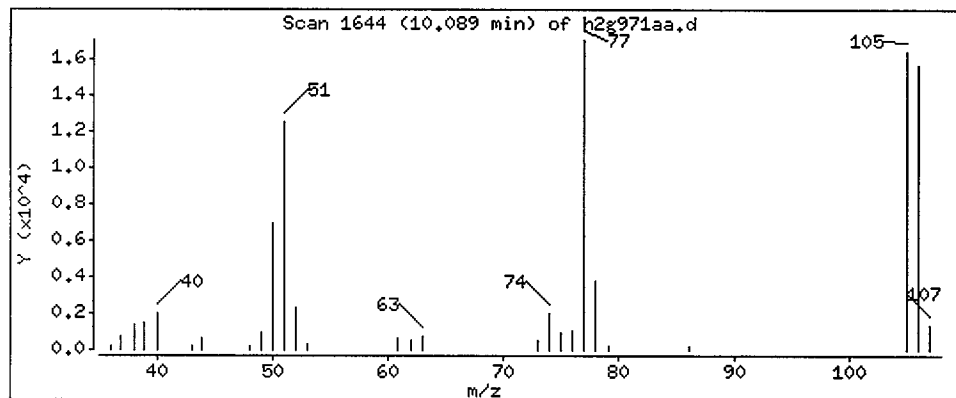
Operator: 22980

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-V0ST PAIR

Instrument: mx.i

Sample Info: H2G971AA,1,0,,,

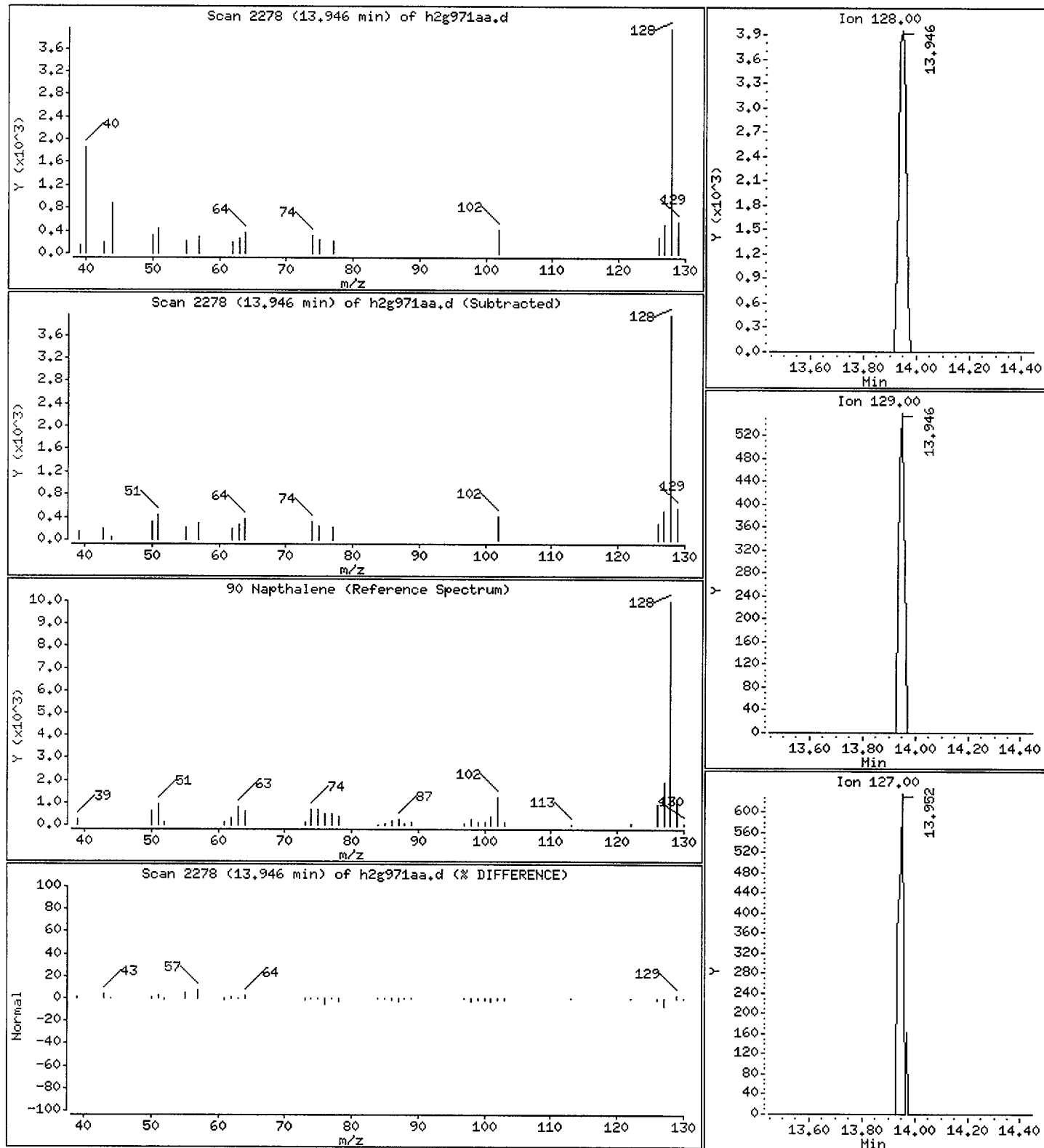
Operator: 22980

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 H

Data File: /var/chem/gcms/mx.i/X040706.b/h2g971aa.d
Report Date: 18-Apr-2006 14:54

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ug/L)	FINAL(ug)		LIBRARY	LIB ENTRY	
====	=====	=====	=====	=====	=====	=====	=====
Benzaldehyde							
10.089	88550	1.58021158	0.039505	95	NIST02.1	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

