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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates PE

Lot #: H6D120117

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SEVERN TRENT LABORATORIES, INC.

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Project Manager

April 21, 2006

ANALYTICAL METHODS SUMMARY

H6D120117

PARAMETER	ANALYTICAL METHOD
Volatile Organic Sampling Train (VOST)	SW846 VOST

References:

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

SAMPLE SUMMARY

H6D120117

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H23FT	001	REGION 9 AUDIT SAMPLE #1	04/11/06	13:00
H23FX	002	REGION 9 AUDIT SAMPLE #2	04/11/06	13:05
H23F0	003	REGION 9 AUDIT SAMPLE #3	04/11/06	13:10

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
H6D120117

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

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Sample Receipt

There were no problems with the condition of the samples received.

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.

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

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #...: H6D120117-001 **Work Order #...:** H23FT1AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.22 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.064**	**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	**0.044 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	**0.017**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.049**	**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	**0.078**	**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: REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #...: H6D120117-001 **Work Order #...:** H23FT1AA **Matrix.....:** AA

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	**0.099**	**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	**0.15**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0036 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	86	(50 - 134)
1,2-Dichloroethane-d4	92	(50 - 134)
Toluene-d8	81	(57 - 127)
Bromofluorobenzene	72	(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

REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #: H6D120117-001 **Work Order #:** H23FT1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

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Client Sample ID: REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #...: H6D120117-002 **Work Order #...:** H23FX1AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.24 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.069**	**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	**0.053 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	**0.018**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.053**	**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	**0.086**	**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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Client Sample ID: REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #...: H6D120117-002 **Work Order #...:** H23FX1AA **Matrix.....:** AA

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	**0.12**	**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	**0.15**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.036 J,B**	**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	91	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	78	(57 - 127)
Bromofluorobenzene	70	(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

REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #: H6D120117-002 **Work Order #:** H23FX1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #...: H6D120117-003 **Work Order #...:** H23F01AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.17 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.068**	**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	**0.018**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.052**	**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	**0.089**	**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: REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #...: H6D120117-003 **Work Order #...:** H23F01AA **Matrix.....:** AA

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	**0.12**	**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	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.054 J,B**	**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	95	(50 - 134)
1,2-Dichloroethane-d4	103	(50 - 134)
Toluene-d8	80	(57 - 127)
Bromofluorobenzene	74	(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

REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #: H6D120117-003 **Work Order #:** H23F01AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AA **Matrix.....:** AIR
MB Lot-Sample #: H6D120000-057

Prep Date.....: 04/12/06
Analysis Date..: 04/12/06 **Prep Batch #...:** 6102057
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	ND	0.050	ug	SW846 VOST
2-Butanone	ND	0.10	ug	SW846 VOST
n-Butylbenzene	ND	0.010	ug	SW846 VOST
sec-Butylbenzene	ND	0.010	ug	SW846 VOST
tert-Butylbenzene	ND	0.010	ug	SW846 VOST
Carbon disulfide	ND	0.010	ug	SW846 VOST
Carbon tetrachloride	ND	0.010	ug	SW846 VOST
Chlorobenzene	ND	0.010	ug	SW846 VOST
Chlorodibromomethane	ND	0.025	ug	SW846 VOST
Chloroethane	ND	0.050	ug	SW846 VOST
Chloroform	ND	0.010	ug	SW846 VOST
Chloromethane	ND	0.025	ug	SW846 VOST
2-Chlorotoluene	ND	0.010	ug	SW846 VOST
4-Chlorotoluene	ND	0.010	ug	SW846 VOST
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	SW846 VOST
1,2-Dibromoethane	ND	0.025	ug	SW846 VOST
Dibromomethane	ND	0.025	ug	SW846 VOST
1,2-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,3-Dichlorobenzene	ND	0.010	ug	SW846 VOST
1,4-Dichlorobenzene	ND	0.010	ug	SW846 VOST
Dichlorodifluoromethane	ND	0.025	ug	SW846 VOST
1,1-Dichloroethane	ND	0.010	ug	SW846 VOST
1,2-Dichloroethane	ND	0.010	ug	SW846 VOST
cis-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
trans-1,2-Dichloroethene	ND	0.010	ug	SW846 VOST
1,1-Dichloroethene	ND	0.010	ug	SW846 VOST
1,2-Dichloropropane	ND	0.010	ug	SW846 VOST
1,3-Dichloropropane	ND	0.010	ug	SW846 VOST
2,2-Dichloropropane	ND	0.010	ug	SW846 VOST
cis-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
trans-1,3-Dichloropropene	ND	0.010	ug	SW846 VOST
1,1-Dichloropropene	ND	0.010	ug	SW846 VOST
Ethylbenzene	ND	0.010	ug	SW846 VOST

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	0.025	ug	SW846 VOST
2-Hexanone	ND	0.10	ug	SW846 VOST
Iodomethane	ND	0.050	ug	SW846 VOST
Isopropylbenzene	ND	0.010	ug	SW846 VOST
p-Isopropyltoluene	ND	0.010	ug	SW846 VOST
Methylene chloride	ND	0.025	ug	SW846 VOST
4-Methyl-2-pentanone	ND	0.10	ug	SW846 VOST
Naphthalene	ND	0.025	ug	SW846 VOST
n-Propylbenzene	ND	0.010	ug	SW846 VOST
Styrene	ND	0.010	ug	SW846 VOST
1,1,1,2-Tetrachloroethane	ND	0.010	ug	SW846 VOST
1,1,2,2-Tetrachloroethane	ND	0.025	ug	SW846 VOST
Tetrachloroethene	ND	0.010	ug	SW846 VOST
Tetrahydrofuran	**0.031 J**	**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	96	(50 - 134)
1,2-Dichloroethane-d4	101	(50 - 134)
Toluene-d8	79	(57 - 127)
Bromofluorobenzene	71	(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 #: H6D120000-057 B **Work Order #:** H229G1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	133	(30 - 180)			SW846 VOST
	107	(30 - 180)	21	(0-25)	SW846 VOST
Acrylonitrile	60	(30 - 130)			SW846 VOST
	63	(30 - 130)	4.9	(0-30)	SW846 VOST
Benzene	**98**	**(69 - 130)**			**SW846 VOST**
	95	**(69 - 130)**	**2.7**	**(0-25)**	**SW846 VOST**
Bromobenzene	90	(50 - 117)			SW846 VOST
	89	(50 - 117)	0.57	(0-25)	SW846 VOST
Bromochloromethane	84	(52 - 125)			SW846 VOST
	80	(52 - 125)	3.9	(0-25)	SW846 VOST
Bromodichloromethane	97	(51 - 129)			SW846 VOST
	99	(51 - 129)	2.6	(0-25)	SW846 VOST
Bromoform	69	(40 - 111)			SW846 VOST
	70	(40 - 111)	1.2	(0-25)	SW846 VOST
Bromomethane	94	(30 - 170)			SW846 VOST
	92	(30 - 170)	1.9	(0-25)	SW846 VOST
2-Butanone	75	(30 - 150)			SW846 VOST
	71	(30 - 150)	5.6	(0-25)	SW846 VOST
n-Butylbenzene	118	(50 - 140)			SW846 VOST
	115	(50 - 140)	2.0	(0-25)	SW846 VOST
sec-Butylbenzene	98	(59 - 136)			SW846 VOST
	97	(59 - 136)	0.75	(0-25)	SW846 VOST
tert-Butylbenzene	90	(59 - 127)			SW846 VOST
	90	(59 - 127)	0.50	(0-25)	SW846 VOST
Carbon disulfide	114	(58 - 150)			SW846 VOST
	107	(58 - 150)	6.9	(0-25)	SW846 VOST
Carbon tetrachloride	100	(61 - 150)			SW846 VOST
	95	(61 - 150)	4.6	(0-25)	SW846 VOST
Chlorobenzene	**85**	**(70 - 116)**			**SW846 VOST**
	88	**(70 - 116)**	**3.2**	**(0-25)**	**SW846 VOST**
Chlorodibromomethane	69	(50 - 116)			SW846 VOST
	71	(50 - 116)	3.0	(0-25)	SW846 VOST
Chloroethane	105	(30 - 150)			SW846 VOST
	99	(30 - 150)	5.9	(0-25)	SW846 VOST
Chloroform	95	(60 - 132)			SW846 VOST
	93	(60 - 132)	2.3	(0-25)	SW846 VOST
Chloromethane	135	(30 - 170)			SW846 VOST
	123	(30 - 170)	9.2	(0-25)	SW846 VOST
2-Chlorotoluene	83	(50 - 122)			SW846 VOST
	85	(50 - 122)	1.4	(0-25)	SW846 VOST

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	88	(50 - 119)			SW846 VOST
	89	(50 - 119)	1.6	(0-25)	SW846 VOST
1,2-Dibromo-3-chloro-propane	32	(30 - 110)			SW846 VOST
	39	(30 - 110)	20	(0-25)	SW846 VOST
1,2-Dibromoethane	63	(50 - 111)			SW846 VOST
	65	(50 - 111)	4.1	(0-25)	SW846 VOST
Dibromomethane	86	(50 - 118)			SW846 VOST
	89	(50 - 118)	4.2	(0-25)	SW846 VOST
1,2-Dichlorobenzene	74	(50 - 108)			SW846 VOST
	75	(50 - 108)	1.4	(0-25)	SW846 VOST
1,3-Dichlorobenzene	83	(50 - 113)			SW846 VOST
	83	(50 - 113)	0.94	(0-25)	SW846 VOST
1,4-Dichlorobenzene	83	(50 - 111)			SW846 VOST
	83	(50 - 111)	0.19	(0-25)	SW846 VOST
Dichlorodifluoromethane	107	(30 - 150)			SW846 VOST
	91	(30 - 150)	16	(0-25)	SW846 VOST
1,1-Dichloroethane	99	(64 - 134)			SW846 VOST
	95	(64 - 134)	4.3	(0-25)	SW846 VOST
1,2-Dichloroethane	97	(50 - 121)			SW846 VOST
	97	(50 - 121)	0.27	(0-25)	SW846 VOST
cis-1,2-Dichloroethene	89	(60 - 131)			SW846 VOST
	86	(60 - 131)	3.4	(0-25)	SW846 VOST
trans-1,2-Dichloroethene	98	(68 - 140)			SW846 VOST
	92	(68 - 140)	6.4	(0-25)	SW846 VOST
1,1-Dichloroethene	**89**	**(63 - 150)**			**SW846 VOST**
	94	**(63 - 150)**	**5.5**	**(0-25)**	**SW846 VOST**
1,2-Dichloropropane	97	(56 - 124)			SW846 VOST
	99	(56 - 124)	1.4	(0-25)	SW846 VOST
1,3-Dichloropropane	68	(50 - 113)			SW846 VOST
	70	(50 - 113)	2.3	(0-25)	SW846 VOST
2,2-Dichloropropane	85	(66 - 150)			SW846 VOST
	80	(66 - 150)	6.4	(0-25)	SW846 VOST
cis-1,3-Dichloropropene	93	(50 - 128)			SW846 VOST
	96	(50 - 128)	2.6	(0-25)	SW846 VOST
trans-1,3-Dichloropropene	66	(50 - 116)			SW846 VOST
	67	(50 - 116)	0.97	(0-25)	SW846 VOST
1,1-Dichloropropene	103	(75 - 149)			SW846 VOST
	99	(75 - 149)	4.1	(0-25)	SW846 VOST
Ethylbenzene	95	(66 - 129)			SW846 VOST
	97	(66 - 129)	1.6	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	84	(50 - 150)			SW846 VOST
	86	(50 - 150)	2.6	(0-25)	SW846 VOST
2-Hexanone	75	(30 - 133)			SW846 VOST
	75	(30 - 133)	0.16	(0-25)	SW846 VOST
Iodomethane	76	(50 - 150)			SW846 VOST
	77	(50 - 150)	1.8	(0-25)	SW846 VOST
Isopropylbenzene	103	(62 - 137)			SW846 VOST
	103	(62 - 137)	0.51	(0-25)	SW846 VOST
p-Isopropyltoluene	98	(57 - 131)			SW846 VOST
	98	(57 - 131)	0.70	(0-25)	SW846 VOST
Methylene chloride	101	(50 - 149)			SW846 VOST
	98	(50 - 149)	2.4	(0-25)	SW846 VOST
4-Methyl-2-pentanone	89	(30 - 120)			SW846 VOST
	99	(30 - 120)	11	(0-25)	SW846 VOST
Naphthalene	81	(30 - 120)			SW846 VOST
	93	(30 - 120)	14	(0-25)	SW846 VOST
n-Propylbenzene	95	(56 - 136)			SW846 VOST
	95	(56 - 136)	0.17	(0-25)	SW846 VOST
Styrene	89	(50 - 122)			SW846 VOST
	90	(50 - 122)	1.1	(0-25)	SW846 VOST
1,1,1,2-Tetrachloroethane	71	(50 - 115)			SW846 VOST
	74	(50 - 115)	3.7	(0-25)	SW846 VOST
1,1,2,2-Tetrachloroethane	76	(30 - 110)			SW846 VOST
	78	(30 - 110)	2.6	(0-25)	SW846 VOST
Tetrachloroethene	86	(60 - 142)			SW846 VOST
	84	(60 - 142)	1.6	(0-25)	SW846 VOST
Toluene	**85**	**(64 - 128)**			**SW846 VOST**
	85	**(64 - 128)**	**0.010**	**(0-25)**	**SW846 VOST**
1,2,3-Trichlorobenzene	87	(30 - 106)			SW846 VOST
	96	(30 - 106)	10	(0-25)	SW846 VOST
1,2,4-Trichloro-benzene	86	(30 - 116)			SW846 VOST
	95	(30 - 116)	10	(0-25)	SW846 VOST
1,1,1-Trichloroethane	98	(64 - 150)			SW846 VOST
	95	(64 - 150)	3.8	(0-25)	SW846 VOST
1,1,2-Trichloroethane	67	(50 - 112)			SW846 VOST
	67	(50 - 112)	0.020	(0-25)	SW846 VOST
Trichloroethene	**97**	**(72 - 150)**			**SW846 VOST**
	96	**(72 - 150)**	**1.5**	**(0-25)**	**SW846 VOST**
Trichlorofluoromethane	92	(30 - 150)			SW846 VOST
	84	(30 - 150)	8.3	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,3-Trichloropropane	51	(30 - 110)			SW846 VOST
	61	(30 - 110)	18	(0-25)	SW846 VOST
1,2,4-Trimethylbenzene	101	(50 - 125)			SW846 VOST
	102	(50 - 125)	0.50	(0-25)	SW846 VOST
1,3,5-Trimethylbenzene	100	(53 - 130)			SW846 VOST
	101	(53 - 130)	1.1	(0-25)	SW846 VOST
Vinyl chloride	119	(61 - 150)			SW846 VOST
	113	(61 - 150)	5.2	(0-25)	SW846 VOST
m-Xylene & p-Xylene	99	(62 - 131)			SW846 VOST
	100	(62 - 131)	1.2	(0-25)	SW846 VOST
o-Xylene	97	(56 - 121)			SW846 VOST
	97	(56 - 121)	0.060	(0-25)	SW846 VOST
Xylenes (total)	98	(60 - 127)			SW846 VOST
	99	(60 - 127)	0.83	(0-25)	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(50 - 134)
	90	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
	93	(50 - 134)
Toluene-d8	82	(57 - 127)
	79	(57 - 127)
Bromofluorobenzene	74	(50 - 125)
	74	(50 - 125)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	1.00	1.33	ug	133		SW846 VOST
	1.00	1.07	ug	107	21	SW846 VOST
Acrylonitrile	5.00	2.98	ug	60		SW846 VOST
	5.00	3.13	ug	63	4.9	SW846 VOST
Benzene	**0.250**	**0.244**	**ug**	**98**		**SW846 VOST**
	0.250	**0.238**	**ug**	**95**	**2.7**	**SW846 VOST**
Bromobenzene	0.250	0.224	ug	90		SW846 VOST
	0.250	0.223	ug	89	0.57	SW846 VOST
Bromochloromethane	0.250	0.209	ug	84		SW846 VOST
	0.250	0.201	ug	80	3.9	SW846 VOST
Bromodichloromethane	0.250	0.242	ug	97		SW846 VOST
	0.250	0.248	ug	99	2.6	SW846 VOST
Bromoform	0.250	0.174	ug	69		SW846 VOST
	0.250	0.176	ug	70	1.2	SW846 VOST
Bromomethane	0.250	0.234	ug	94		SW846 VOST
	0.250	0.230	ug	92	1.9	SW846 VOST
2-Butanone	1.00	0.750	ug	75		SW846 VOST
	1.00	0.709	ug	71	5.6	SW846 VOST
n-Butylbenzene	0.250	0.294	ug	118		SW846 VOST
	0.250	0.288	ug	115	2.0	SW846 VOST
sec-Butylbenzene	0.250	0.245	ug	98		SW846 VOST
	0.250	0.243	ug	97	0.75	SW846 VOST
tert-Butylbenzene	0.250	0.226	ug	90		SW846 VOST
	0.250	0.225	ug	90	0.50	SW846 VOST
Carbon disulfide	0.250	0.286	ug	114		SW846 VOST
	0.250	0.267	ug	107	6.9	SW846 VOST
Carbon tetrachloride	0.250	0.249	ug	100		SW846 VOST
	0.250	0.238	ug	95	4.6	SW846 VOST
Chlorobenzene	**0.250**	**0.213**	**ug**	**85**		**SW846 VOST**
	0.250	**0.220**	**ug**	**88**	**3.2**	**SW846 VOST**
Chlorodibromomethane	0.250	0.172	ug	69		SW846 VOST
	0.250	0.177	ug	71	3.0	SW846 VOST
Chloroethane	0.250	0.264	ug	105		SW846 VOST
	0.250	0.249	ug	99	5.9	SW846 VOST
Chloroform	0.250	0.239	ug	95		SW846 VOST
	0.250	0.233	ug	93	2.3	SW846 VOST
Chloromethane	0.250	0.336	ug	135		SW846 VOST
	0.250	0.307	ug	123	9.2	SW846 VOST
2-Chlorotoluene	0.250	0.208	ug	83		SW846 VOST
	0.250	0.211	ug	85	1.4	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorotoluene	0.250	0.219	ug	88		SW846 VOST
	0.250	0.222	ug	89	1.6	SW846 VOST
1,2-Dibromo-3-chloro-propane	0.250	0.0801	ug	32		SW846 VOST
	0.250	0.0978	ug	39	20	SW846 VOST
1,2-Dibromoethane	0.250	0.157	ug	63		SW846 VOST
	0.250	0.163	ug	65	4.1	SW846 VOST
Dibromomethane	0.250	0.214	ug	86		SW846 VOST
	0.250	0.223	ug	89	4.2	SW846 VOST
1,2-Dichlorobenzene	0.250	0.185	ug	74		SW846 VOST
	0.250	0.188	ug	75	1.4	SW846 VOST
1,3-Dichlorobenzene	0.250	0.206	ug	83		SW846 VOST
	0.250	0.208	ug	83	0.94	SW846 VOST
1,4-Dichlorobenzene	0.250	0.207	ug	83		SW846 VOST
	0.250	0.207	ug	83	0.19	SW846 VOST
Dichlorodifluoromethane	0.250	0.268	ug	107		SW846 VOST
	0.250	0.228	ug	91	16	SW846 VOST
1,1-Dichloroethane	0.250	0.247	ug	99		SW846 VOST
	0.250	0.237	ug	95	4.3	SW846 VOST
1,2-Dichloroethane	0.250	0.241	ug	97		SW846 VOST
	0.250	0.242	ug	97	0.27	SW846 VOST
cis-1,2-Dichloroethene	0.250	0.224	ug	89		SW846 VOST
	0.250	0.216	ug	86	3.4	SW846 VOST
trans-1,2-Dichloroethene	0.250	0.246	ug	98		SW846 VOST
	0.250	0.230	ug	92	6.4	SW846 VOST
1,1-Dichloroethene	**0.250**	**0.223**	**ug**	**89**		**SW846 VOST**
	0.250	**0.236**	**ug**	**94**	**5.5**	**SW846 VOST**
1,2-Dichloropropane	0.250	0.243	ug	97		SW846 VOST
	0.250	0.247	ug	99	1.4	SW846 VOST
1,3-Dichloropropane	0.250	0.170	ug	68		SW846 VOST
	0.250	0.174	ug	70	2.3	SW846 VOST
2,2-Dichloropropane	0.250	0.213	ug	85		SW846 VOST
	0.250	0.200	ug	80	6.4	SW846 VOST
cis-1,3-Dichloropropene	0.250	0.233	ug	93		SW846 VOST
	0.250	0.239	ug	96	2.6	SW846 VOST
trans-1,3-Dichloropropene	0.250	0.166	ug	66		SW846 VOST
	0.250	0.168	ug	67	0.97	SW846 VOST
1,1-Dichloropropene	0.250	0.258	ug	103		SW846 VOST
	0.250	0.248	ug	99	4.1	SW846 VOST
Ethylbenzene	0.250	0.238	ug	95		SW846 VOST
	0.250	0.242	ug	97	1.6	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorobutadiene	0.250	0.209	ug	84		SW846 VOST
	0.250	0.215	ug	86	2.6	SW846 VOST
2-Hexanone	1.00	0.753	ug	75		SW846 VOST
	1.00	0.752	ug	75	0.16	SW846 VOST
Iodomethane	0.250	0.189	ug	76		SW846 VOST
	0.250	0.192	ug	77	1.8	SW846 VOST
Isopropylbenzene	0.250	0.257	ug	103		SW846 VOST
	0.250	0.259	ug	103	0.51	SW846 VOST
p-Isopropyltoluene	0.250	0.246	ug	98		SW846 VOST
	0.250	0.244	ug	98	0.70	SW846 VOST
Methylene chloride	0.250	0.251	ug	101		SW846 VOST
	0.250	0.245	ug	98	2.4	SW846 VOST
4-Methyl-2-pentanone	1.00	0.894	ug	89		SW846 VOST
	1.00	0.994	ug	99	11	SW846 VOST
Naphthalene	0.250	0.203	ug	81		SW846 VOST
	0.250	0.234	ug	93	14	SW846 VOST
n-Propylbenzene	0.250	0.237	ug	95		SW846 VOST
	0.250	0.237	ug	95	0.17	SW846 VOST
Styrene	0.250	0.222	ug	89		SW846 VOST
	0.250	0.224	ug	90	1.1	SW846 VOST
1,1,1,2-Tetrachloroethane	0.250	0.178	ug	71		SW846 VOST
	0.250	0.185	ug	74	3.7	SW846 VOST
1,1,2,2-Tetrachloroethane	0.250	0.189	ug	76		SW846 VOST
	0.250	0.194	ug	78	2.6	SW846 VOST
Tetrachloroethene	0.250	0.214	ug	86		SW846 VOST
	0.250	0.211	ug	84	1.6	SW846 VOST
Toluene	**0.250**	**0.213**	**ug**	**85**		**SW846 VOST**
	0.250	**0.213**	**ug**	**85**	**0.010**	**SW846 VOST**
1,2,3-Trichlorobenzene	0.250	0.217	ug	87		SW846 VOST
	0.250	0.240	ug	96	10	SW846 VOST
1,2,4-Trichloro-benzene	0.250	0.215	ug	86		SW846 VOST
	0.250	0.238	ug	95	10	SW846 VOST
1,1,1-Trichloroethane	0.250	0.246	ug	98		SW846 VOST
	0.250	0.237	ug	95	3.8	SW846 VOST
1,1,2-Trichloroethane	0.250	0.168	ug	67		SW846 VOST
	0.250	0.168	ug	67	0.020	SW846 VOST
Trichloroethene	**0.250**	**0.243**	**ug**	**97**		**SW846 VOST**
	0.250	**0.240**	**ug**	**96**	**1.5**	**SW846 VOST**
Trichlorofluoromethane	0.250	0.229	ug	92		SW846 VOST
	0.250	0.211	ug	84	8.3	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2,3-Trichloropropane	0.250	0.127	ug	51		SW846 VOST
	0.250	0.152	ug	61	18	SW846 VOST
1,2,4-Trimethylbenzene	0.250	0.253	ug	101		SW846 VOST
	0.250	0.254	ug	102	0.50	SW846 VOST
1,3,5-Trimethylbenzene	0.250	0.249	ug	100		SW846 VOST
	0.250	0.252	ug	101	1.1	SW846 VOST
Vinyl chloride	0.250	0.298	ug	119		SW846 VOST
	0.250	0.283	ug	113	5.2	SW846 VOST
m-Xylene & p-Xylene	0.500	0.495	ug	99		SW846 VOST
	0.500	0.501	ug	100	1.2	SW846 VOST
o-Xylene	0.250	0.242	ug	97		SW846 VOST
	0.250	0.242	ug	97	0.060	SW846 VOST
Xylenes (total)	0.750	0.737	ug	98		SW846 VOST
	0.750	0.743	ug	99	0.83	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(50 - 134)
	90	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
	93	(50 - 134)
Toluene-d8	82	(57 - 127)
	79	(57 - 127)
Bromofluorobenzene	74	(50 - 125)
	74	(50 - 125)

NOTE(S):

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

Bold print denotes control parameters

Sample Receipt Documentation

ENVIRONMENTAL
Analytical Service, Inc.

H6D120117

173 Cross Street
San Luis Obispo, CA
93401 - 7597
805.781.3585
Fax 805.541.4550

CHAIN OF CUSTODY RECORD

Project Number: FOCUS/WESTATES PDT
Project Name: PE SAMPLE
Quote Number:

REPORT TO:

Company: Focus Environmental
Address: 9050 Executive Park Dr., A202
City/State/Zip: Knoxville, Tennessee 37923
Phone: 865 694-7517 (FAX) 865-531-8854
ATTENTION: Tony Eicher

MATRIX LEGEND:
A - Ambient Air, Low Level
I - Indoor Air
S - Source Air, High Level
G - Gas/Product

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX A	MATRIX I	MATRIX S	MATRIX G	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS: VOST					REMARKS
#1	4/11/06	13:06	1			SPECIAL							X					PE SAMPLE
#2	4/11/06	13:05	2										X					"
#3	4/11/06	13:10	3										X					"
																		CUSTODY SEALS INTACT
																		RECEIVED AT 8°C
																		BKD 4-12-06
																		1 COOLER UPS#
																		1Z91X2110146120559

COMMENTS: Audit Samples Prepared by: Environmental Analytical Service, Inc. Steve Hyt

BILLING INFORMATION

Company
Address
City/State/Zip
ATTENTION
Purchase Order/Billing Reference

	Date	Time		Date	Time
SAMPLED BY:	4/11/06	13:00	Received by:		
Relinquished By:			Received by:		
Relinquished By:			Received by:		
Relinquished By:	4/11/06	14:00	Received for lab by: Bryan Cameron	4-12-06	09:45

N1012017

Environmental
ANALYTICAL SERVICE, INC.

PACKING SLIP

PS NO: 6553

Project Manager:

Steve Remaley
US EPA Region 9
75 Hawthorne Street (PMD-3)
San Francisco CA 94105
415-972-3802

Ship To:

Billy Anderson
Severn Trent Laboratories
5815 Middlebrook Pike
Knoxville TN 37921

Quote: 12649 **Order Date:** **Due Date:** 4/12/2006 **Ship Date:** 4/11/2006

Bill Client: **Account:** **Carrier:** Ups Next Day Air

Item	Quan	Description	Equipment Identification	Return	Date Returned
	3	Spiked Tenex Tubes		Yes	

RECEIVED BY [illegible signature] 4-12-06 09:45

Project:
Focus/Westates PDT
Region 9 Audit Sample
Sample Type VOST

CUSTODY SEALS INTACT
RECEIVED AT 8°C
OK 4-12-06
1 COOLER UPS
1291X211014612 0559

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: KNOX ACS **Project:** Focus / Westater / VOST Audits **Lot Number:** H1N1201117

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:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 64351 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 4-12-016

QA026R18.doc, 1/30/06

Volatiles

Raw Sample Data

STL Knoxville - ACS

Client Sample ID: REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #...: H6D120117-001 **Work Order #...:** H23FT1AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.22 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.064**	**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	**0.044 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	**0.017**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.049**	**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	**0.078**	**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: REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #...: H6D120117-001 **Work Order #...:** H23FT1AA **Matrix.....:** AA

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	**0.099**	**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	**0.15**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0036 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	86	(50 - 134)
1,2-Dichloroethane-d4	92	(50 - 134)
Toluene-d8	81	(57 - 127)
Bromofluorobenzene	72	(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

REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #: H6D120117-001 **Work Order #:** H23FT1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Report Date: 17-Apr-2006 17:39

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Lab Smp Id: H23FT1AA Client Smp ID: REGION 9 AUDIT SAMP
Inj Date : 12-APR-2006 12:29
Operator : 22980 Inst ID: mx.i
Smp Info : H23FT1AA,1,0,,,
Misc Info : X041206,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 17-Apr-2006 17:12 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.854	4.851	(1.000)	781066	10.0000	
* 2 Chlorobenzene-d5	119	7.579	7.582	(1.000)	181239	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.737	10.740	(1.000)	227870	10.0000	
$ 4 Dibromofluoromethane	113	4.270	4.273	(0.880)	114274	8.60520	0.21513
$ 5 1,2-Dichloroethane-d4	65	4.550	4.553	(0.937)	95004	9.17795	0.22945
$ 6 Toluene-d8	98	6.253	6.250	(0.825)	718047	8.09201	0.20230
$ 7 4-Bromofluorobenzene	95	8.875	8.872	(0.827)	193397	7.15814	0.17895
21 Acetone	43	2.390	2.381	(0.492)	9734	8.79987	0.22000
23 Carbon Disulfide	76	2.494	2.496	(0.514)	39766	0.66805	0.016701
26 Methylene Chloride	84	2.749	2.746	(0.566)	47852	3.96267	0.099067
33 *Vinyl Acetate	86	3.248	3.421	(0.669)	1880	~~2.11649~~	~~0.052912~~
36 2-Butanone	43	3.874	3.871	(0.798)	3018	1.74953	0.043738
38 *THF	42	4.106	4.109	(0.846)	1534	~~1.45148~~	~~0.036287~~
39 Chloroform (ccc)	83	4.136	4.139	(0.852)	92501	3.11598	0.077899
41 Carbon Tetrachloride	117	4.440	4.437	(0.915)	54909	1.95839	0.048960
42 1,1-Dichloropropene	75	4.611	4.437	(0.950)	3908	~~0.12639~~	~~0.0031597~~
43 Benzene	78	4.611	4.607	(0.950)	201765	2.55066	0.063766
44 1,2-Dichloroethane	62	4.604	4.620	(0.949)	2005	~~0.15067~~	~~0.0037668~~
52 4-Methyl-2-pentanone	43	6.259	6.147	(1.290)	5836	~~1.41237~~	~~0.035309~~
53 Toluene (ccc)	91	6.308	6.311	(0.832)	15191	0.14309	0.0035774

MT 4/17/06

Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Report Date: 17-Apr-2006 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
56 1,1,2-Trichloroethane	97	6.819	6.670	(0.900)	924	~~0.11029~~	~~0.0027573~~
57 Tetrachloroethene	164	6.819	6.816	(0.900)	137144	6.01232	0.15031
59 2-Hexanone	43	6.448	6.901	(0.851)	1928	~~0.54355~~	~~0.013589~~

MT
4/17/06

Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Report Date: 17-Apr-2006 17:39

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h23ft1aa.d
Lab Smp Id: H23FT1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,focus.sub

Calibration Date: 12-APR-2006
Calibration Time: 08:38
Client Smp ID: REGION 9 AUDIT SAMP
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	977885	488942	1955770	781066	-20.13
2 Chlorobenzene-d5	201795	100898	403590	181239	-10.19
3 1,4 Dichlorobenze	245212	122606	490424	227870	-7.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.07
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.04
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.74	-0.03

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

Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Report Date: 17-Apr-2006 17:39

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D120117
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: H23FT1AA
Client Smp ID: REGION 9 AUDIT SAMP
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/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,focus.sub

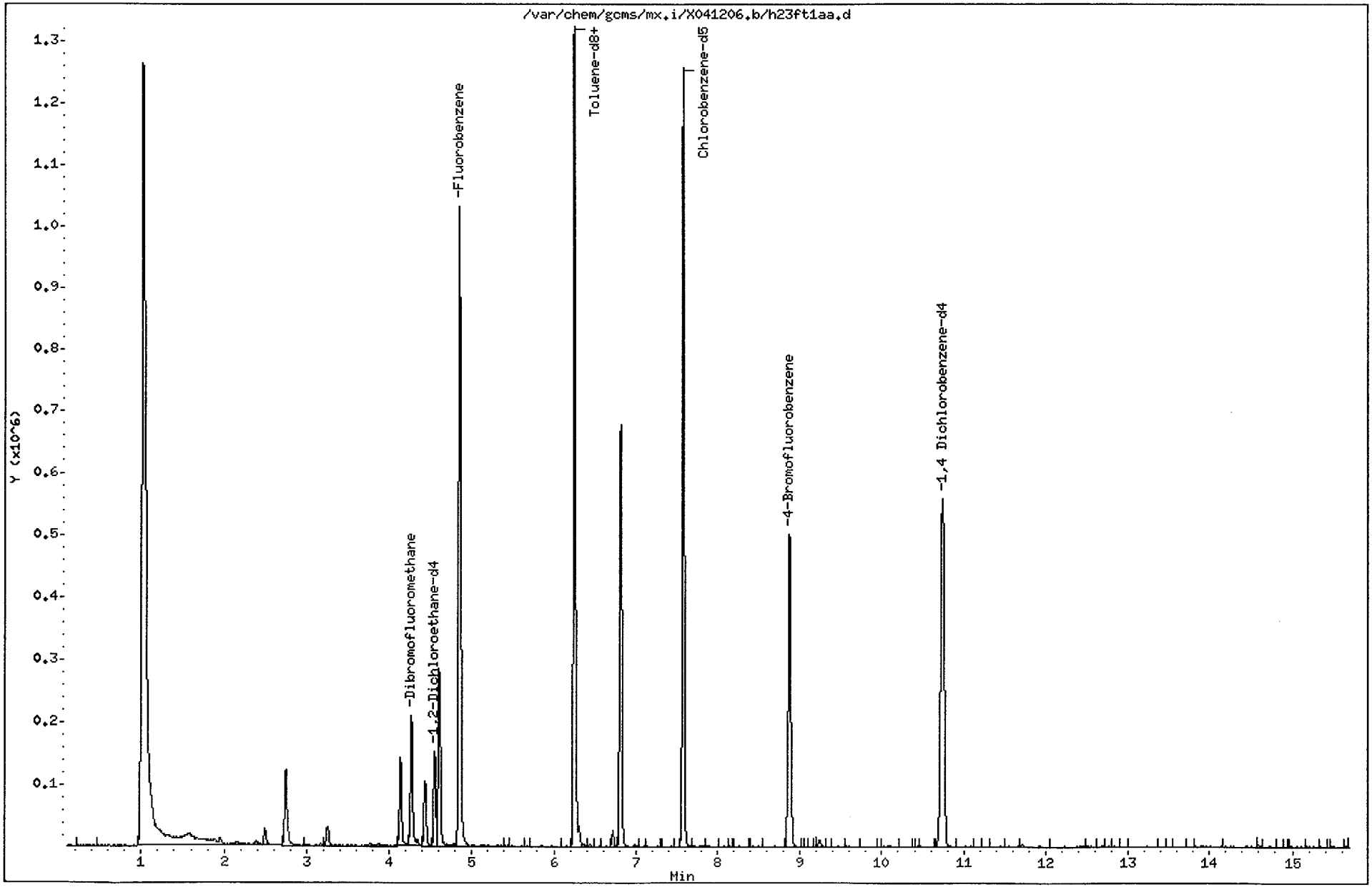
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.21513	86.05	50-150
$ 5 1,2-Dichloroethane	0.25000	0.22945	91.78	50-150
$ 6 Toluene-d8	0.25000	0.20230	80.92	50-150
$ 7 4-Bromofluorobenze	0.25000	0.17895	71.58	50-150

Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Date : 12-APR-2006 12:29
Client ID: REGION 9 AUDIT SAMP
Sample Info: H23FT1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

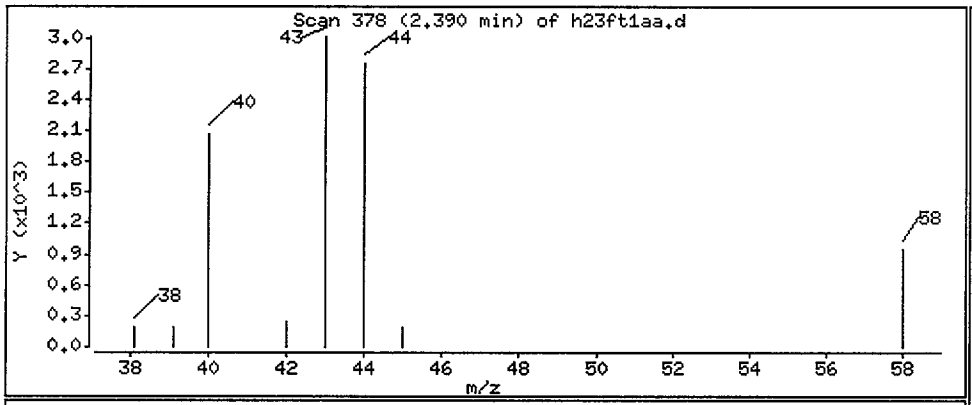
Operator: 22980

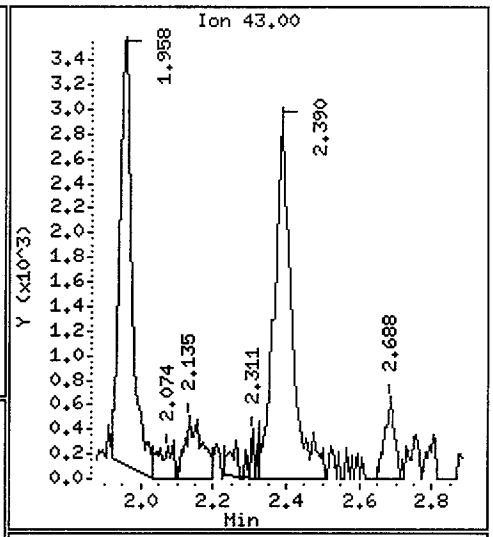
Column phase: J+W 624

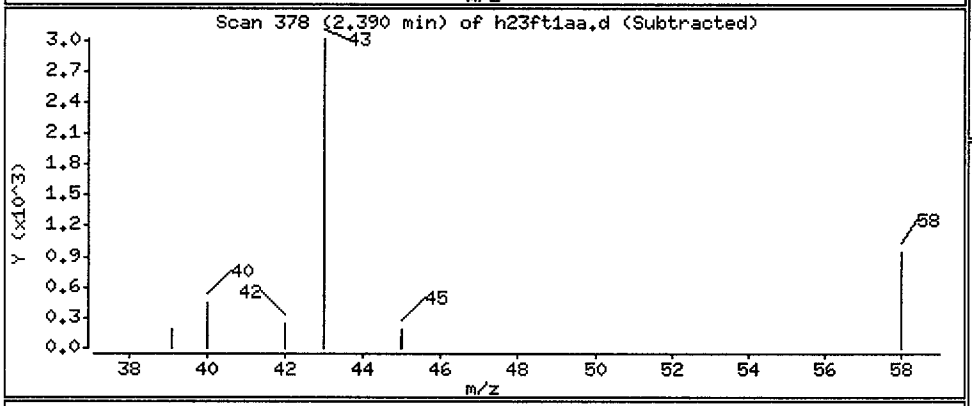
Column diameter: 0.18

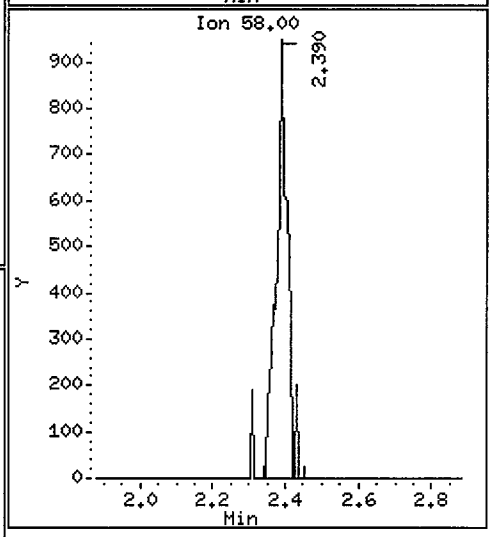
21 Acetone

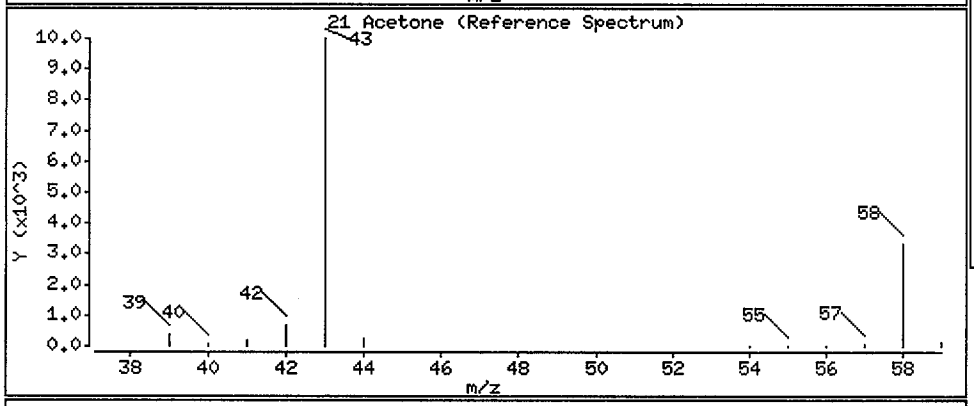
Concentration: 0.22000 ug

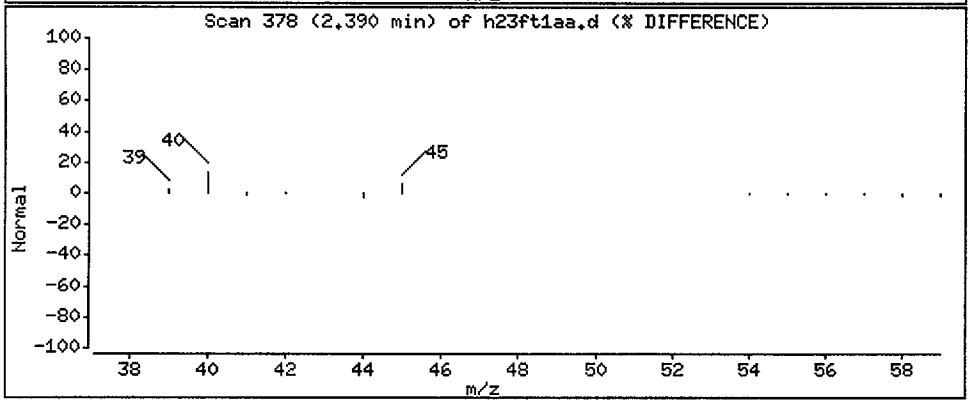












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

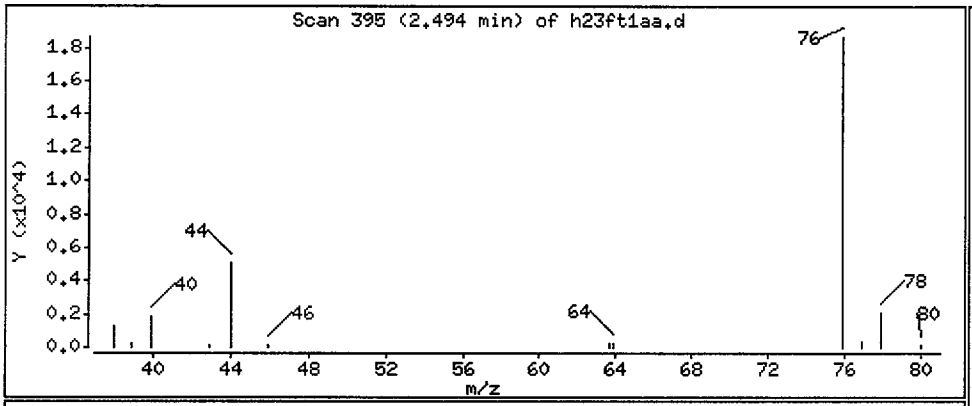
Operator: 22980

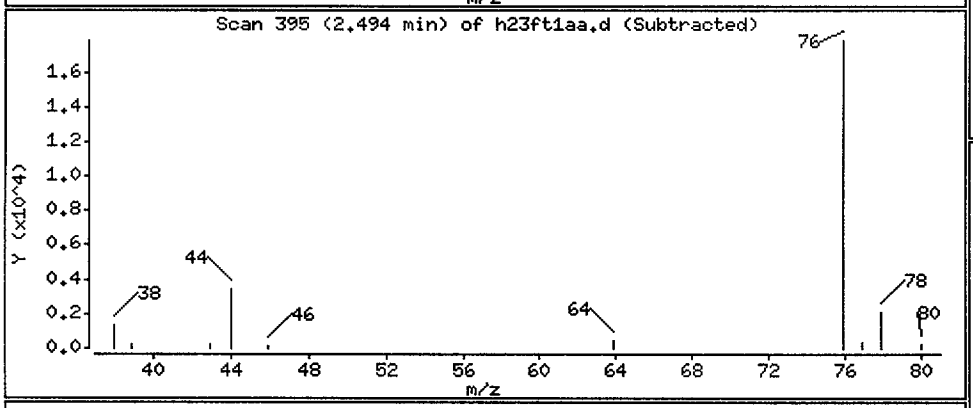
Column phase: J+W 624

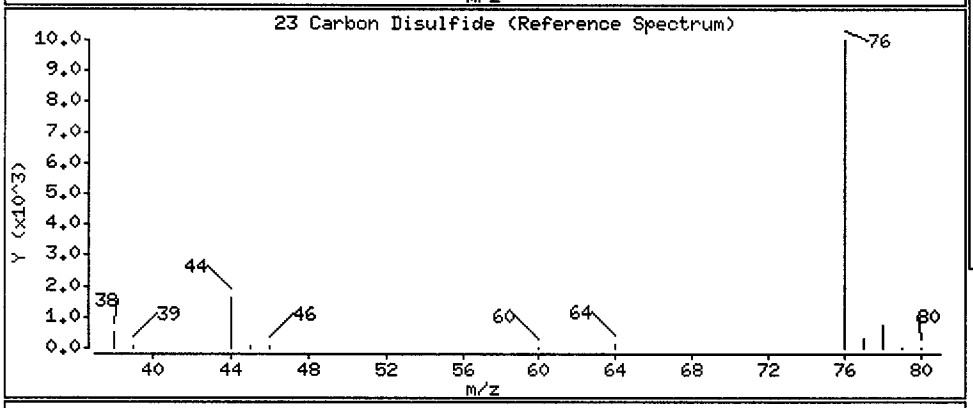
Column diameter: 0.18

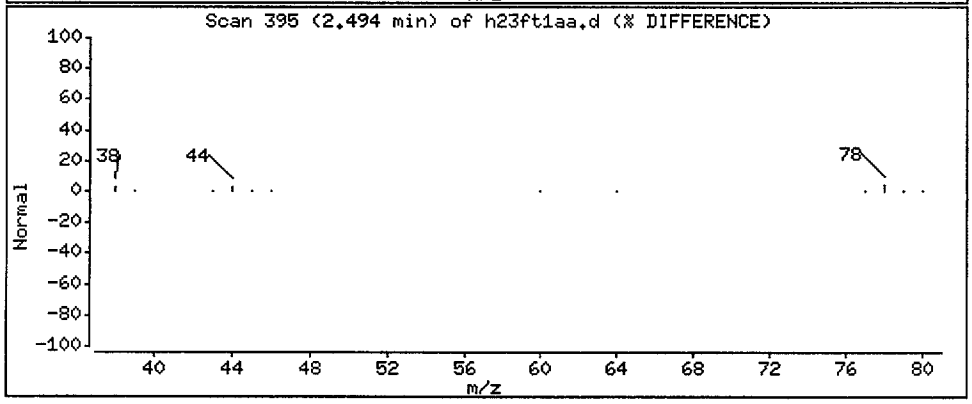
23 Carbon Disulfide

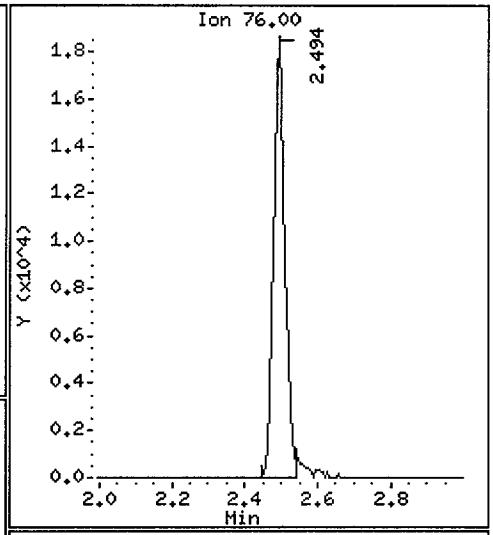
Concentration: 0.016701 ug

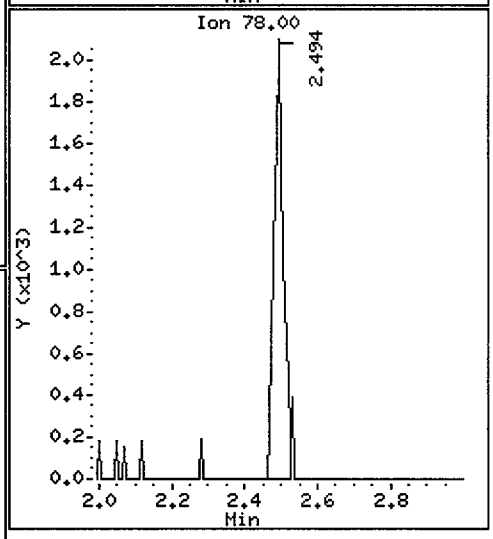












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

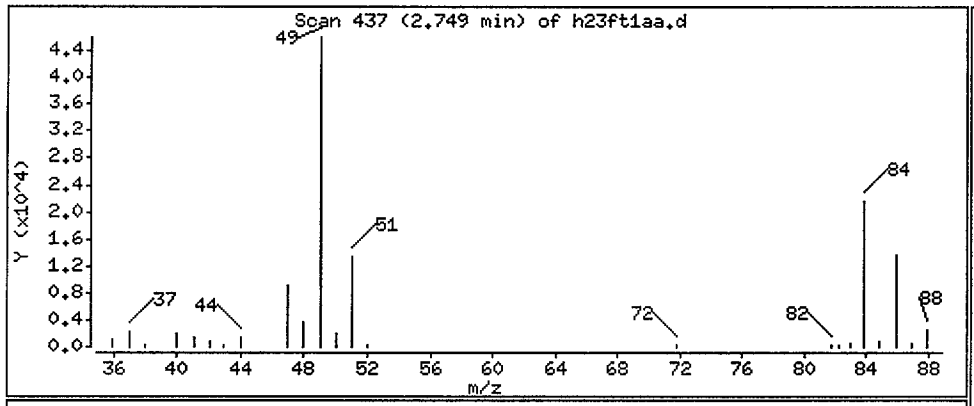
Operator: 22980

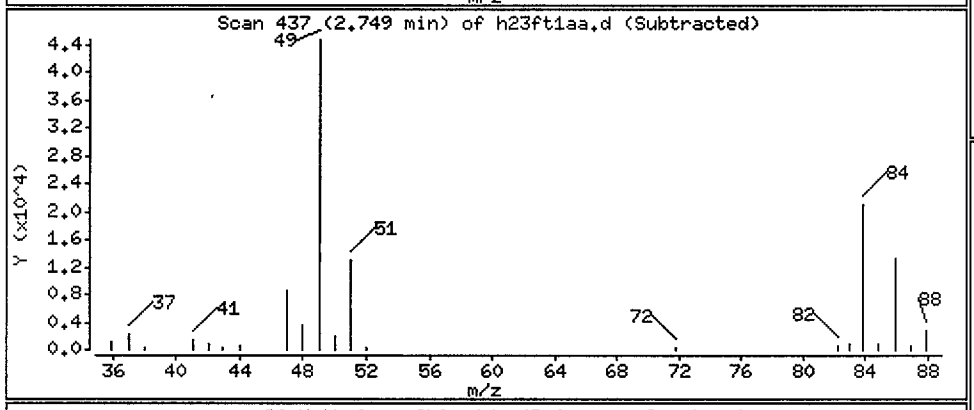
Column phase: J+W 624

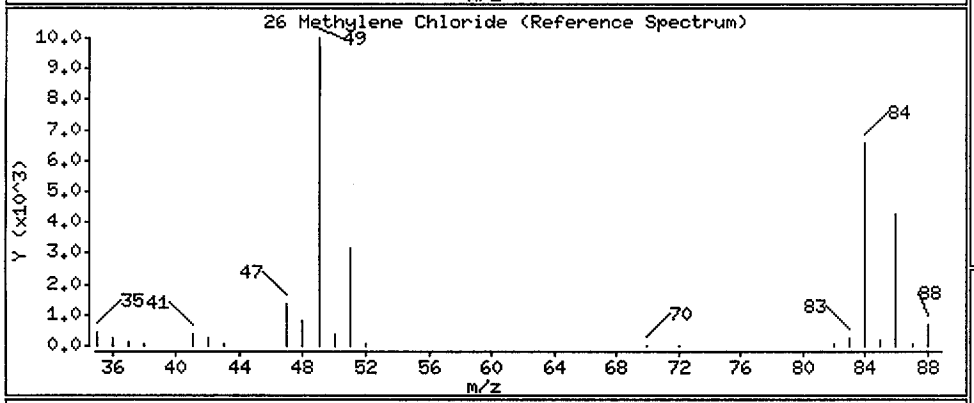
Column diameter: 0.18

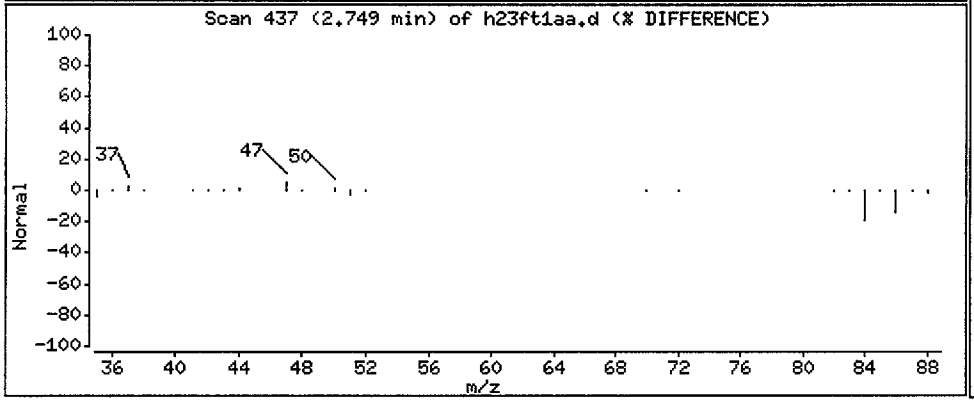
26 Methylene Chloride

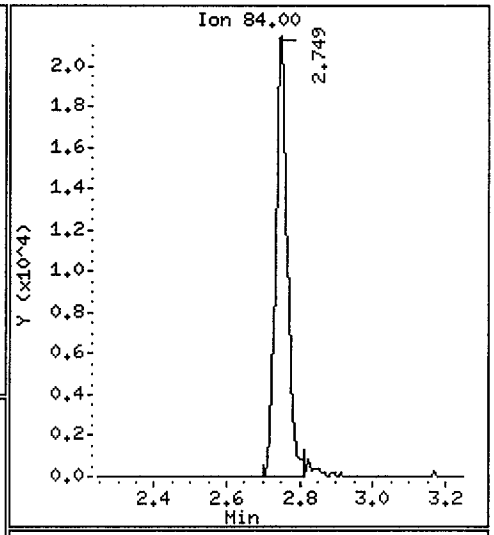
Concentration: 0.099067 ug

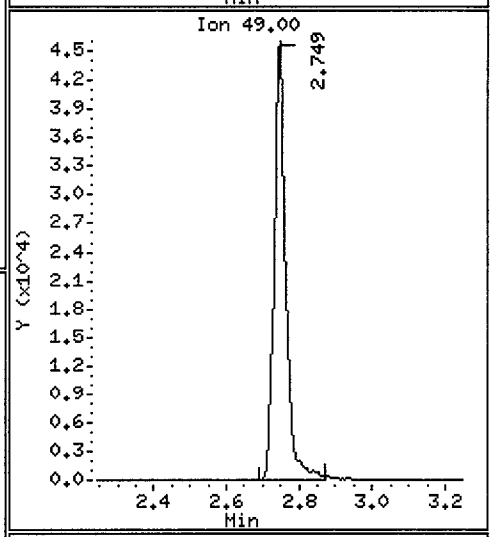


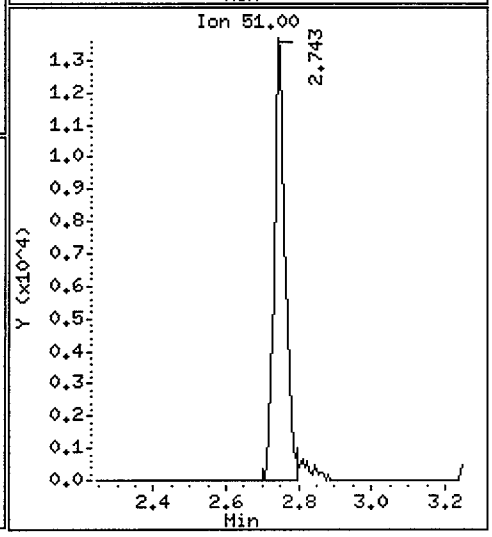












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

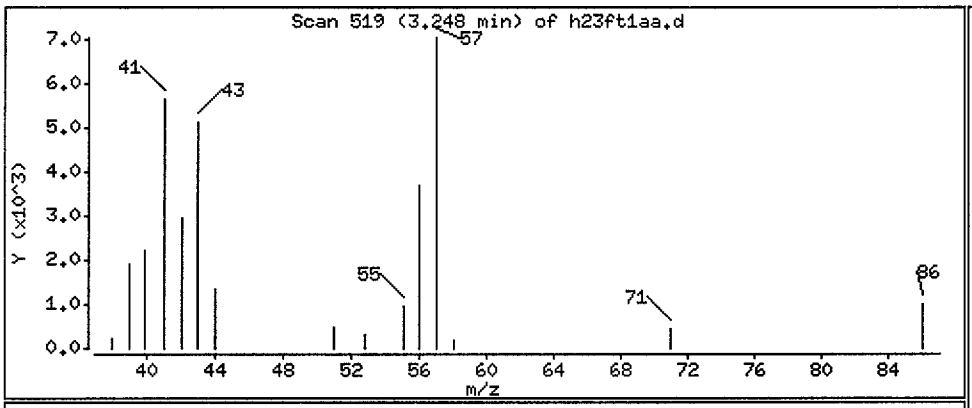
Operator: 22980

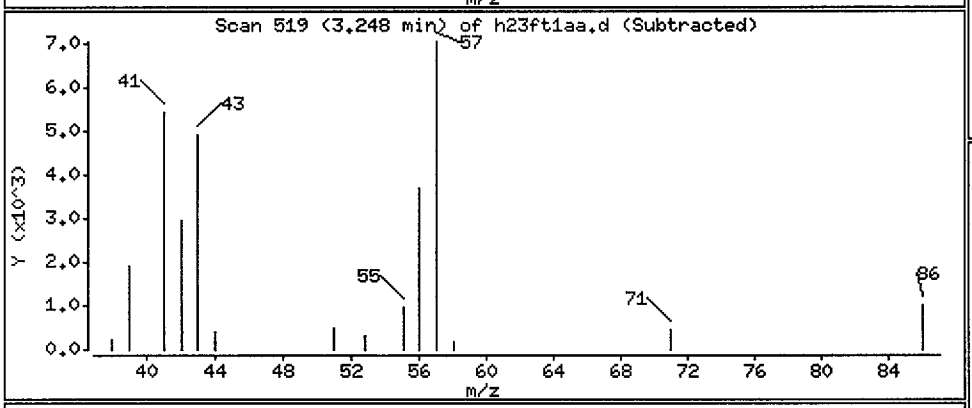
Column phase: J+W 624

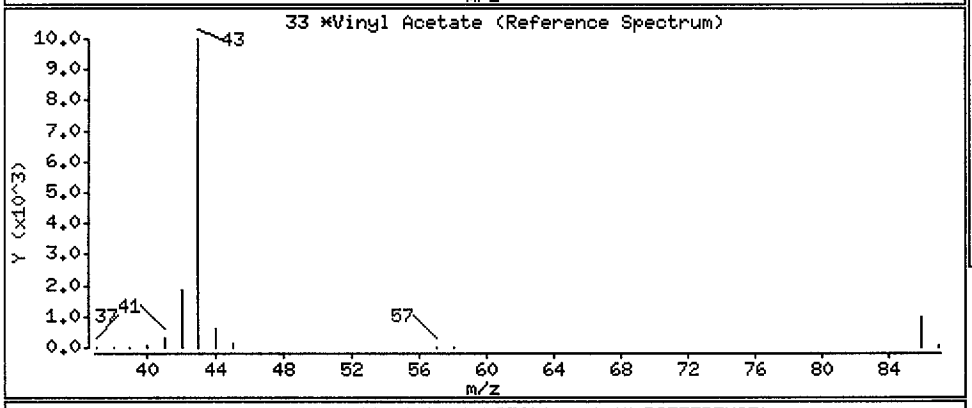
Column diameter: 0.18

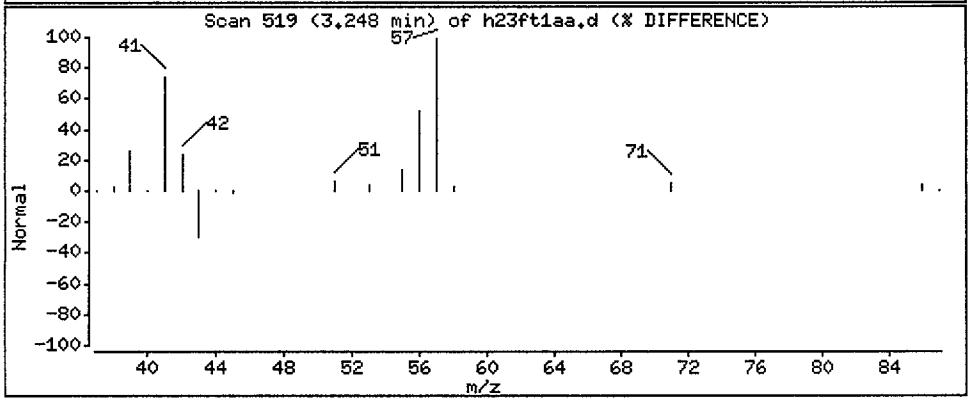
33 *Vinyl Acetate

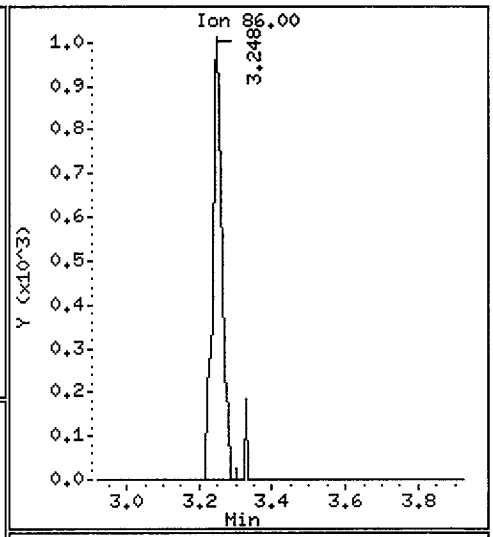
Concentration: 0.052912 ug

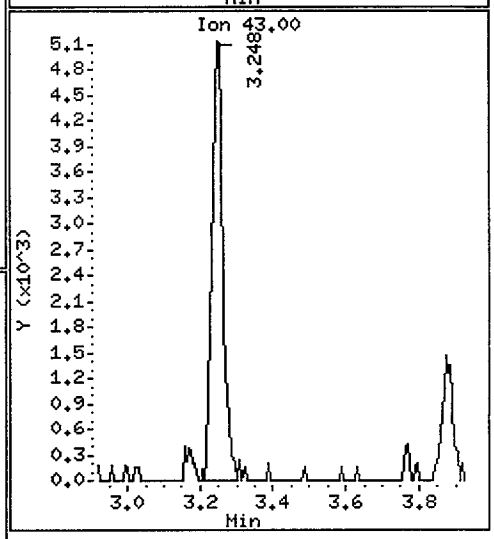












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

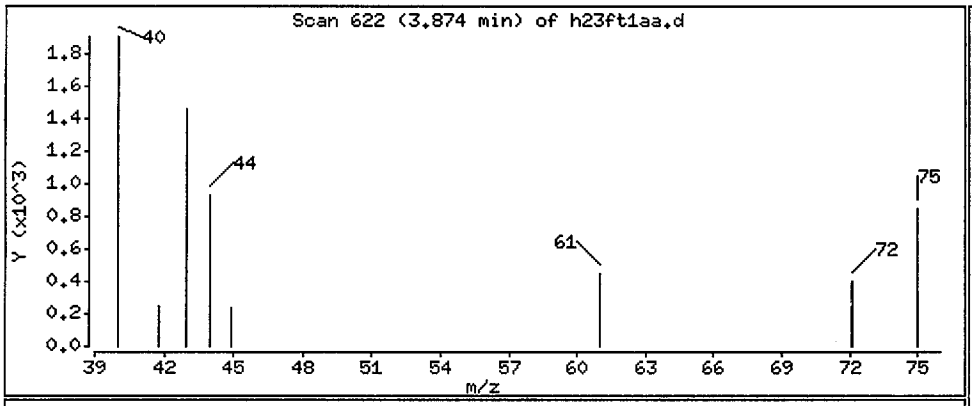
Operator: 22980

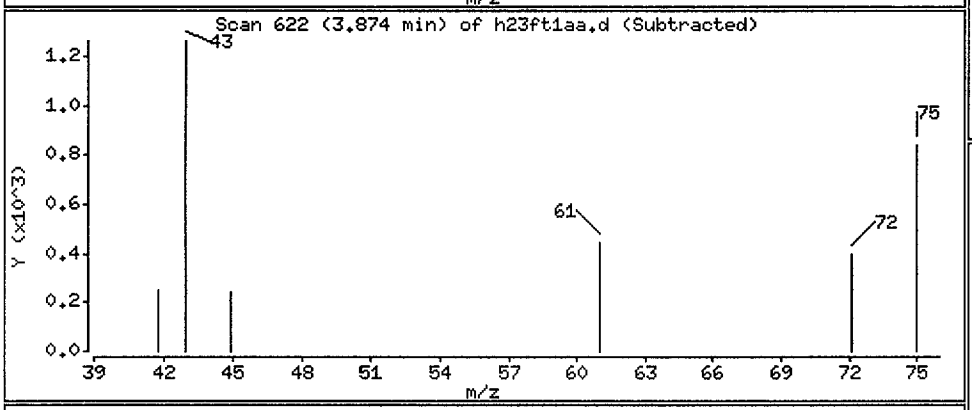
Column phase: J+W 624

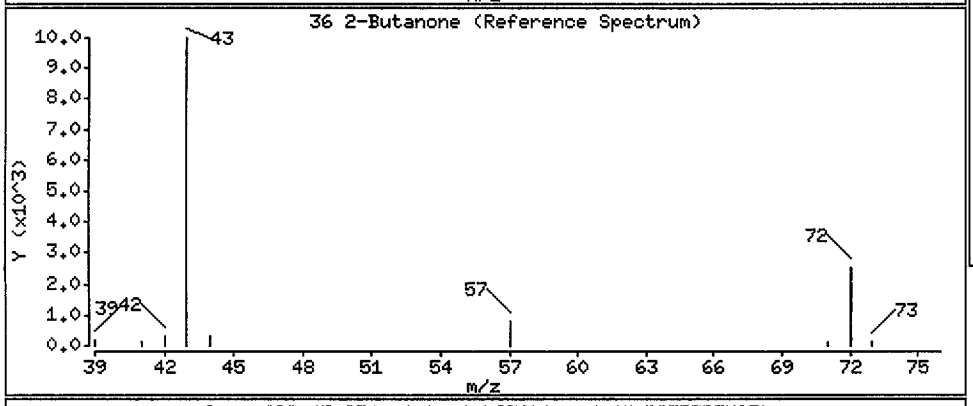
Column diameter: 0.18

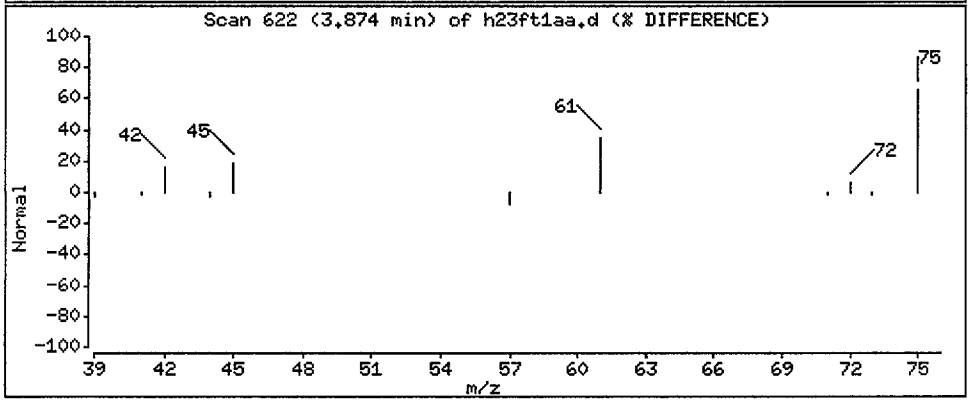
36 2-Butanone

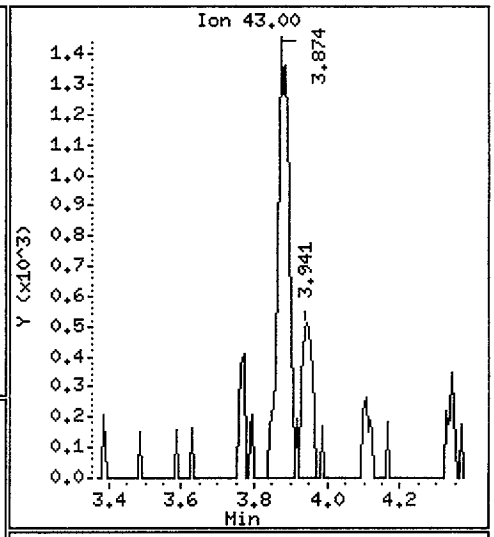
Concentration: 0.043738 ug

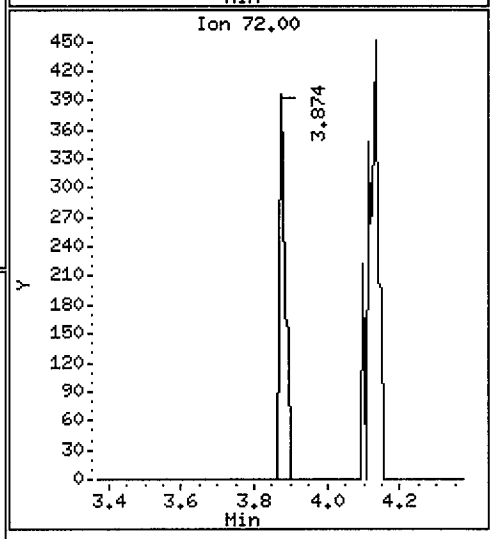












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

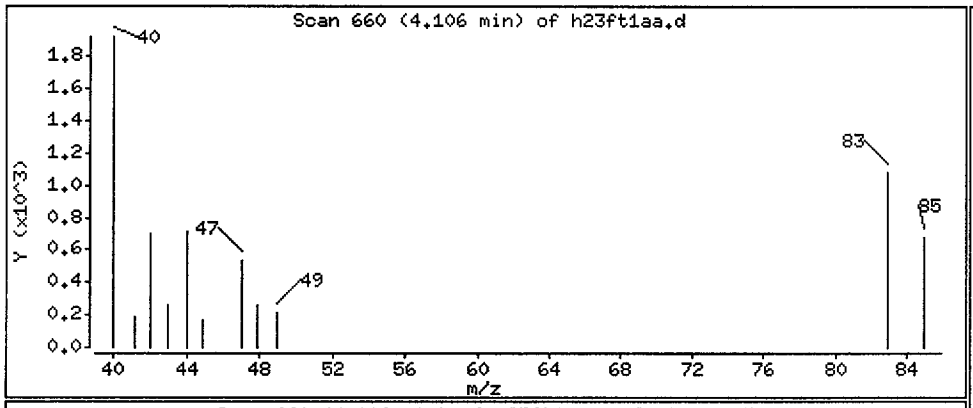
Operator: 22980

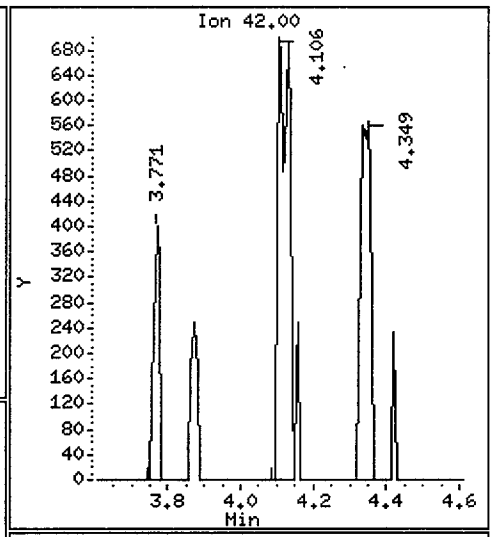
Column phase: J+W 624

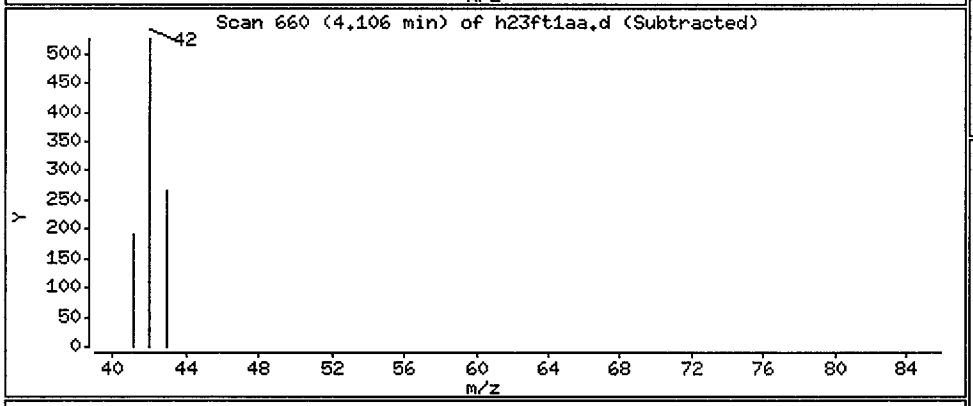
Column diameter: 0.18

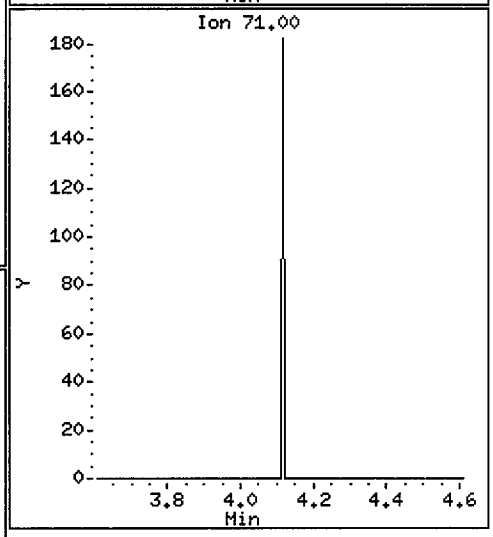
38 *THF

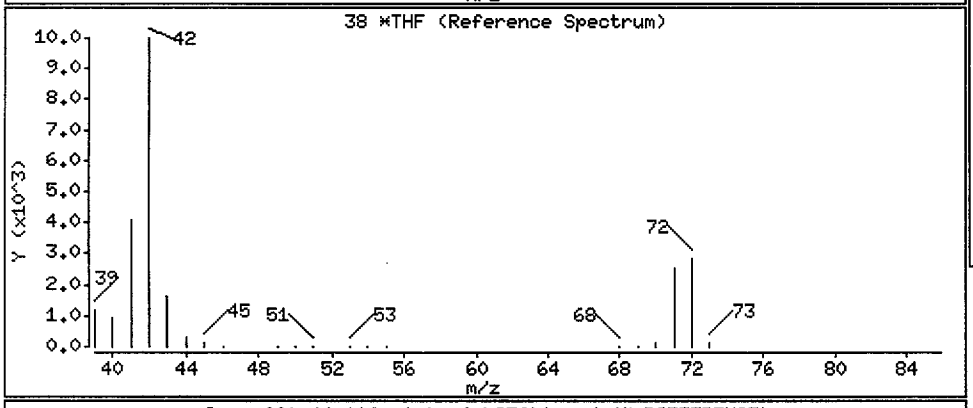
Concentration: 0.036287 ug

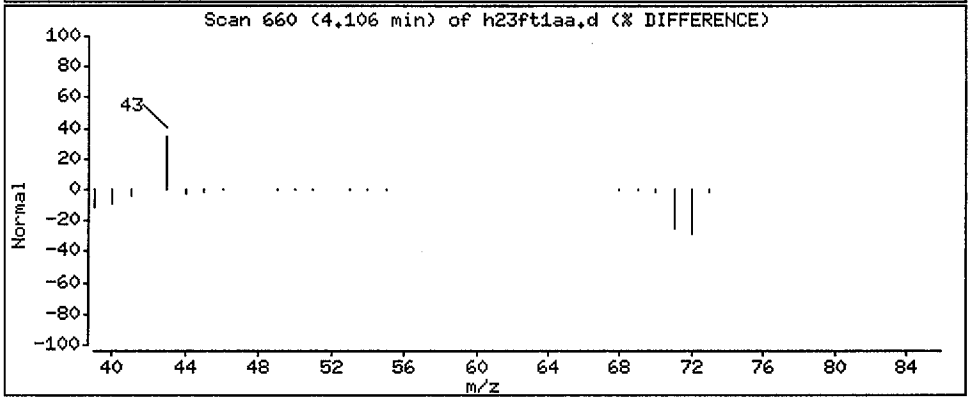












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

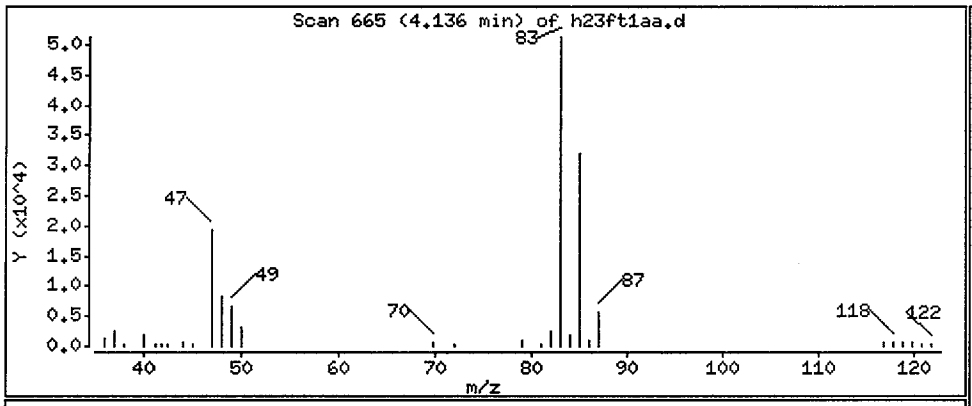
Operator: 22980

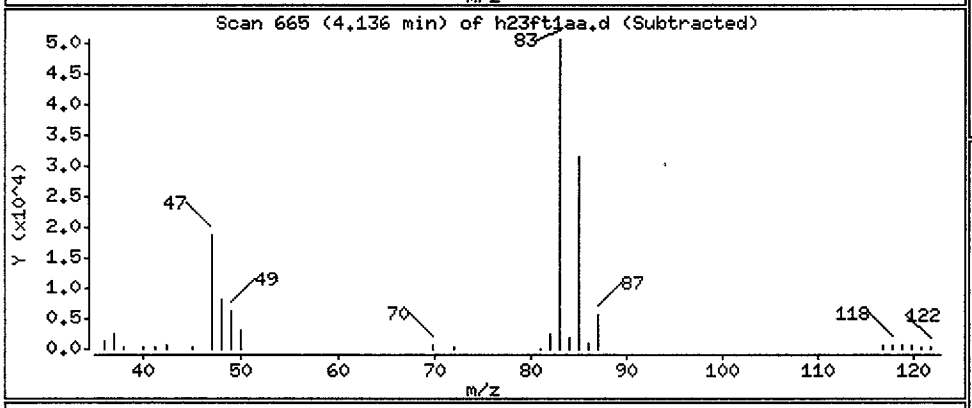
Column phase: J+W 624

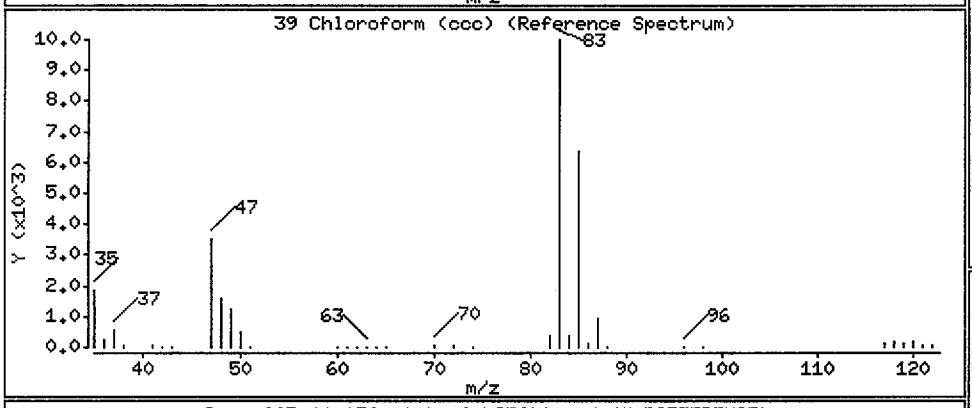
Column diameter: 0.18

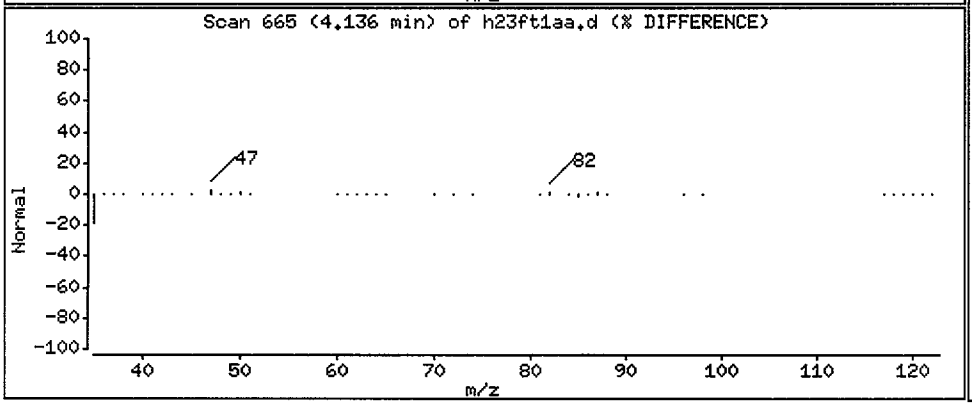
39 Chloroform (ccc)

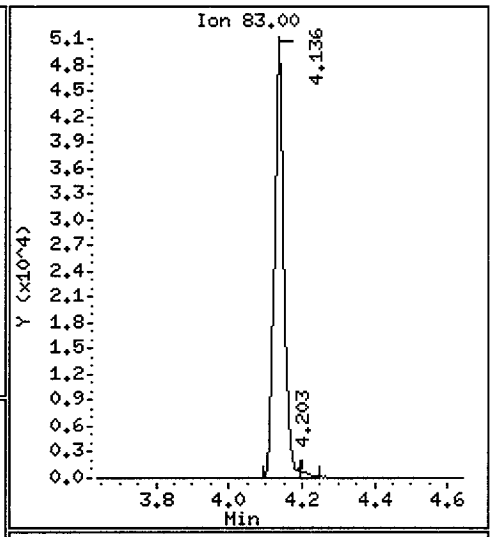
Concentration: 0.077899 ug

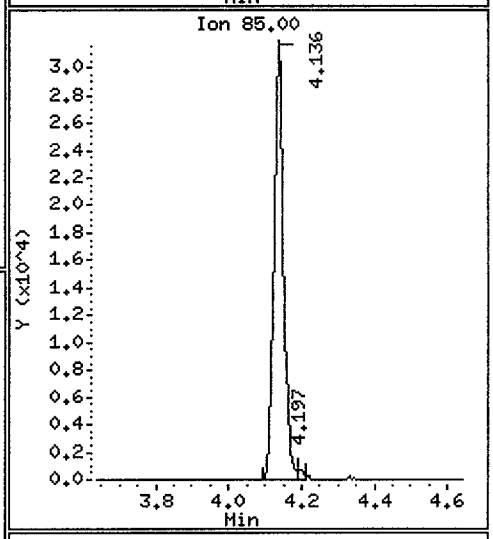


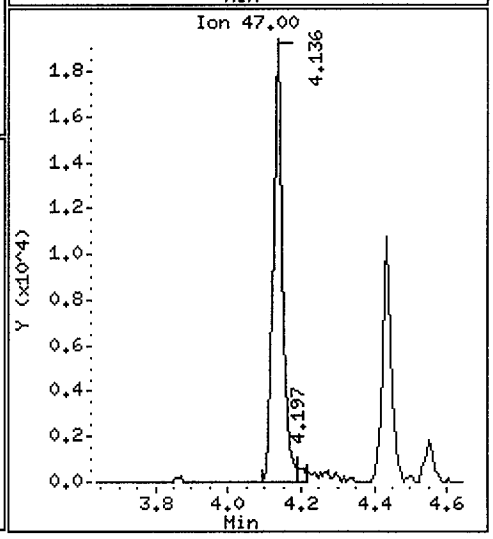












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

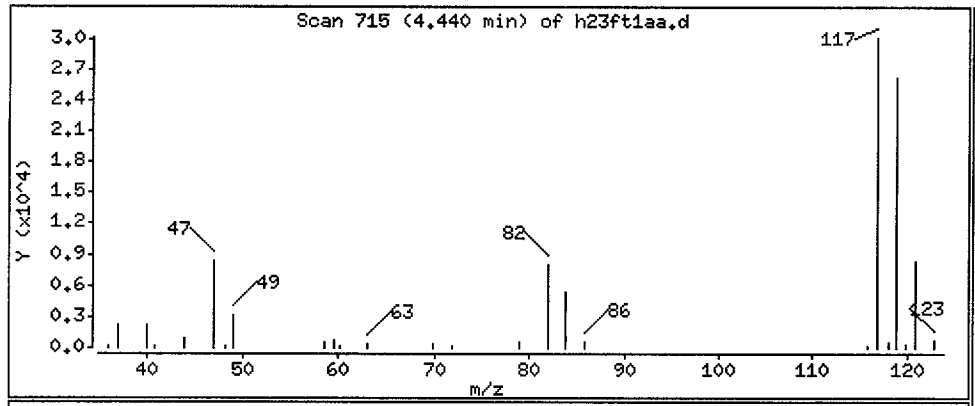
Operator: 22980

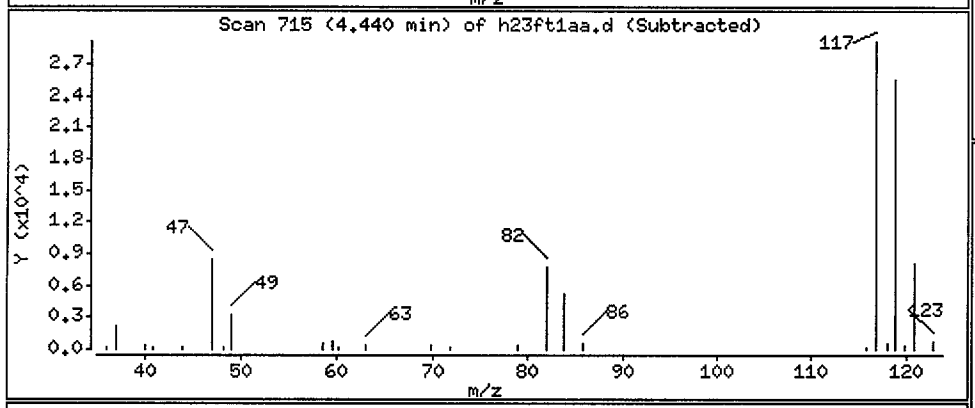
Column phase: J+W 624

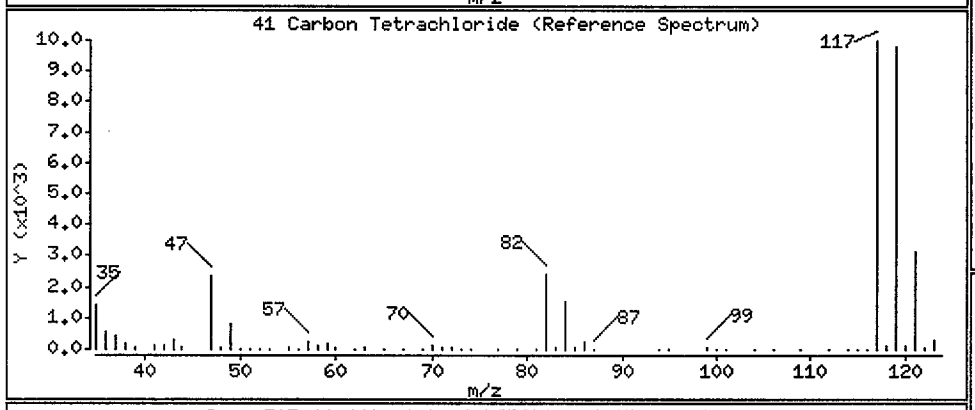
Column diameter: 0.18

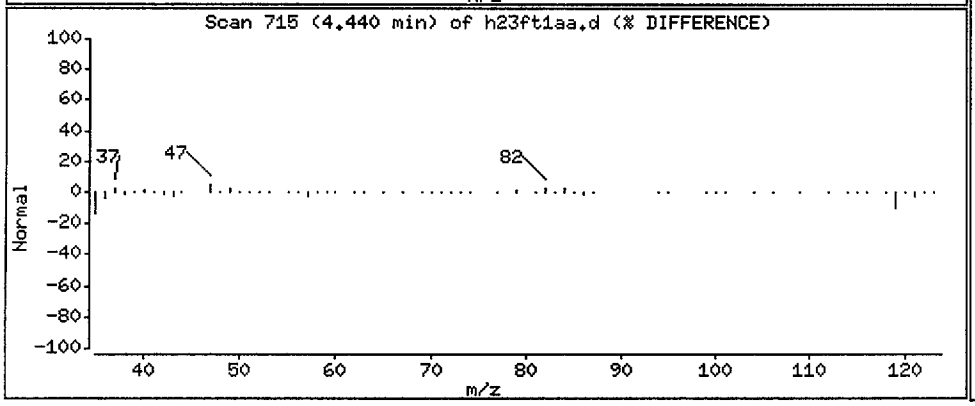
41 Carbon Tetrachloride

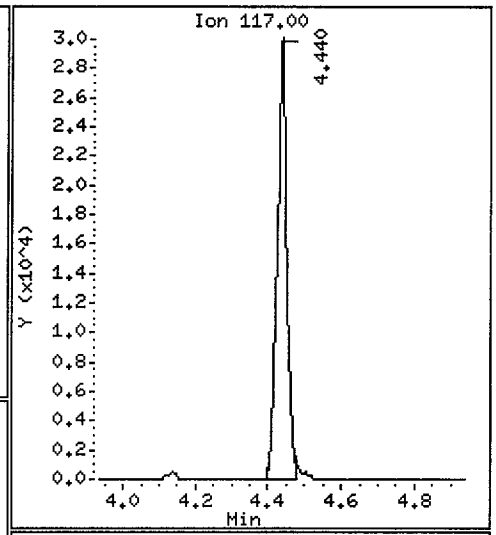
Concentration: 0.048960 ug

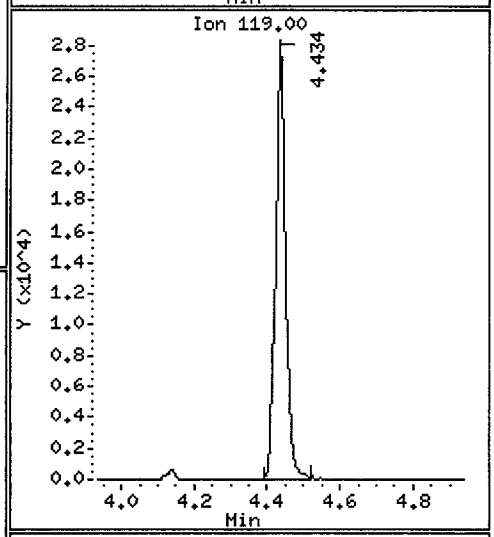


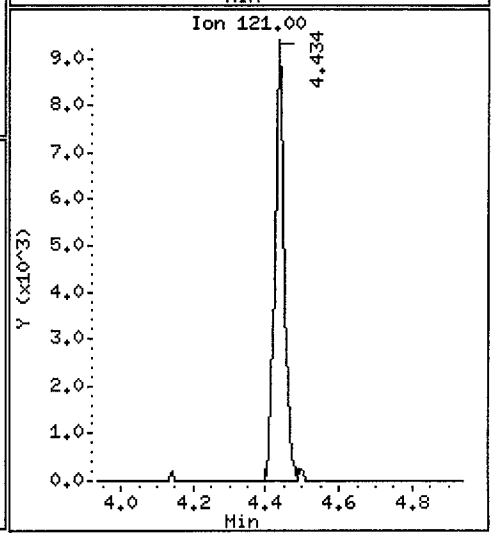












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

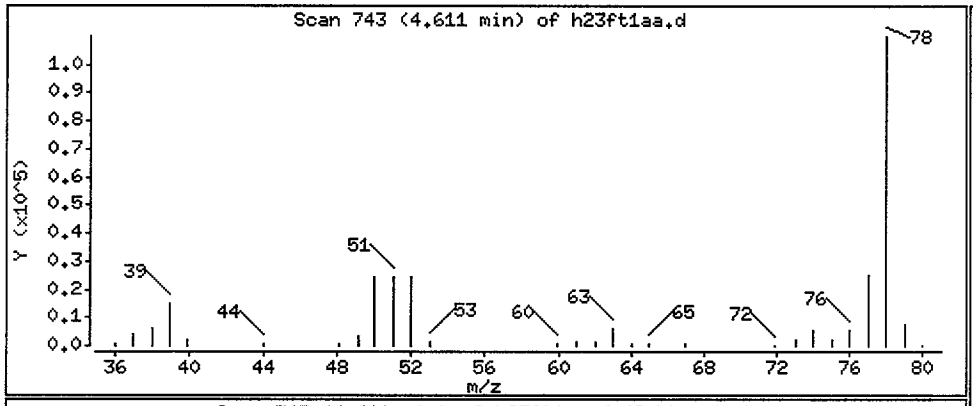
Operator: 22980

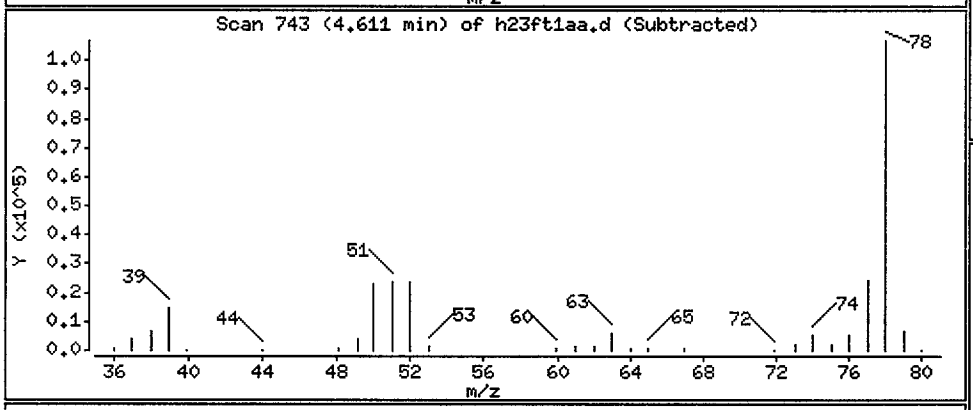
Column phase: J+W 624

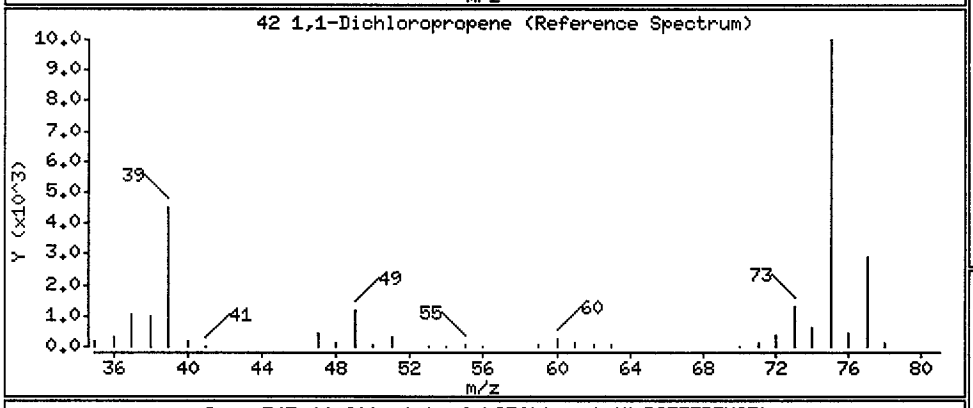
Column diameter: 0.18

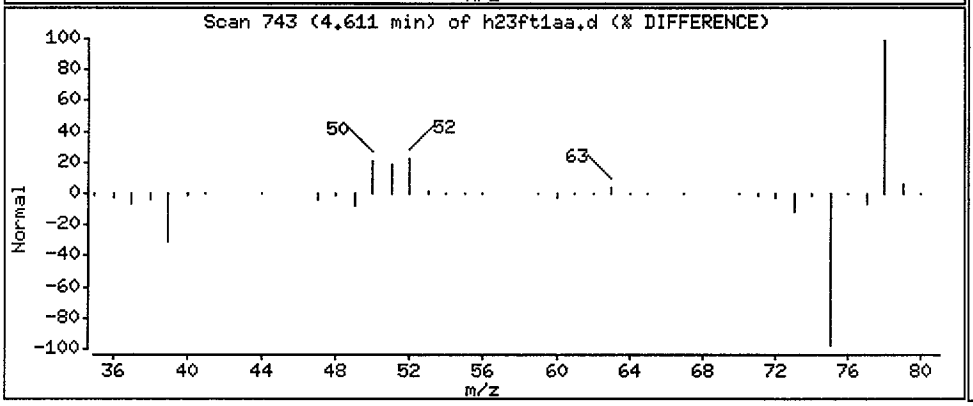
42 1,1-Dichloropropene

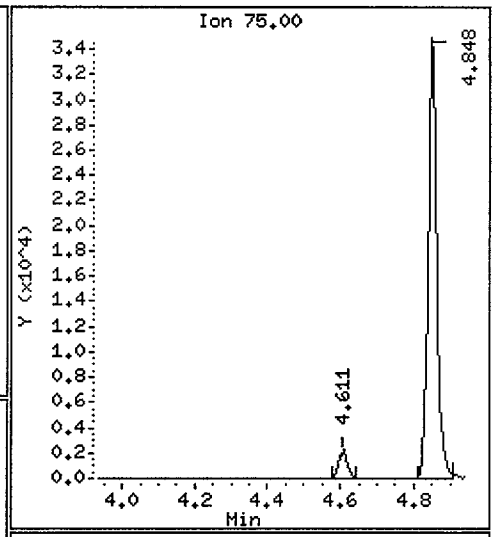
Concentration: 0.0031597 ug

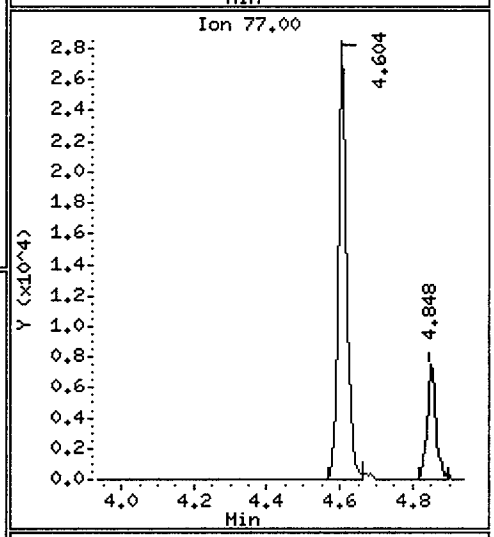


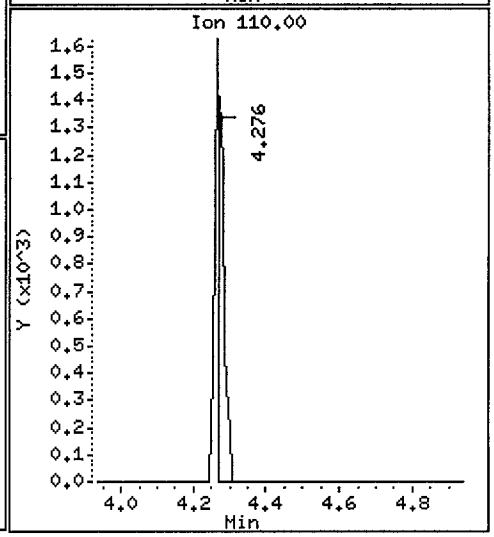












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

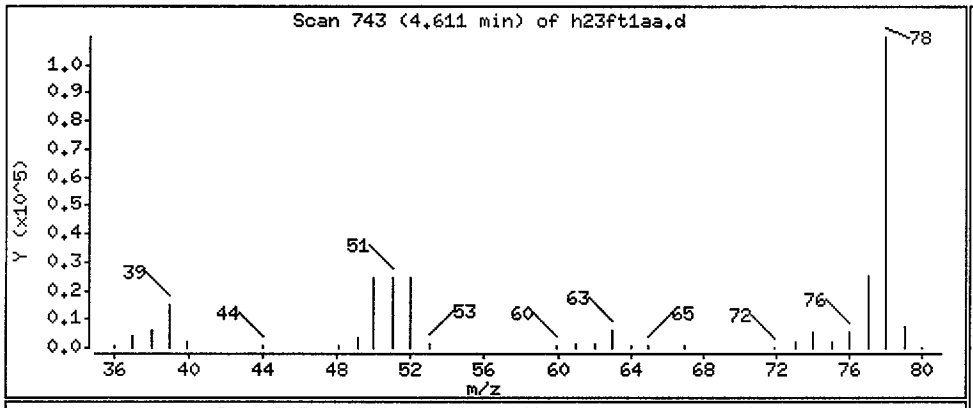
Operator: 22980

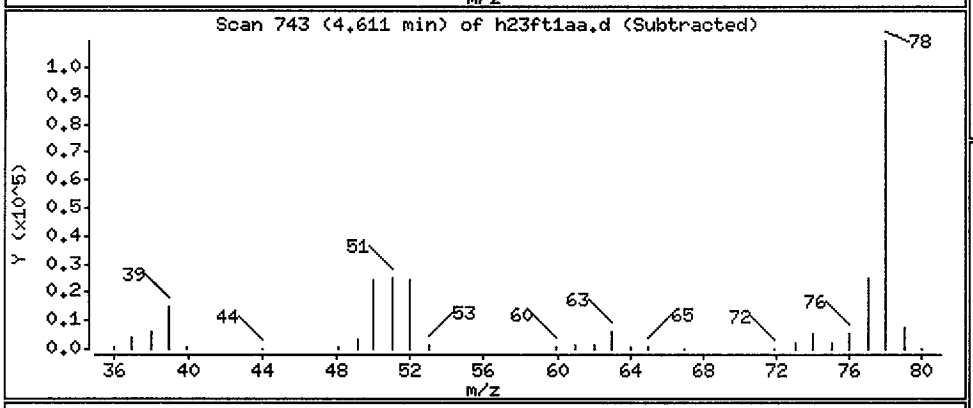
Column phase: J+W 624

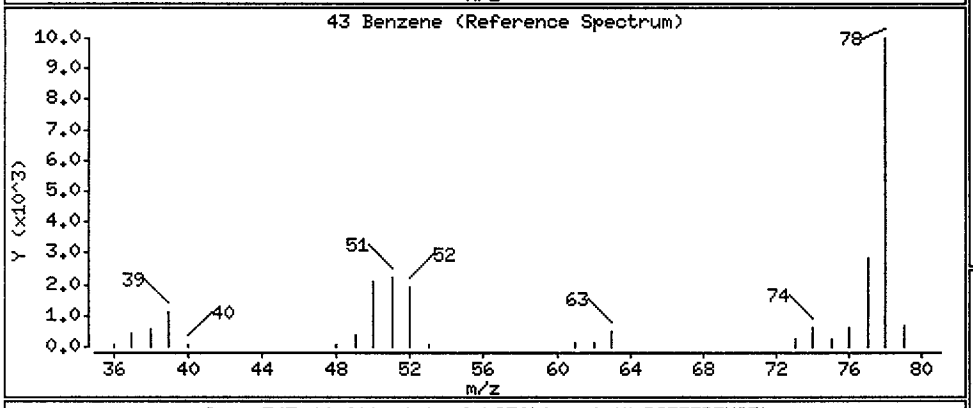
Column diameter: 0.18

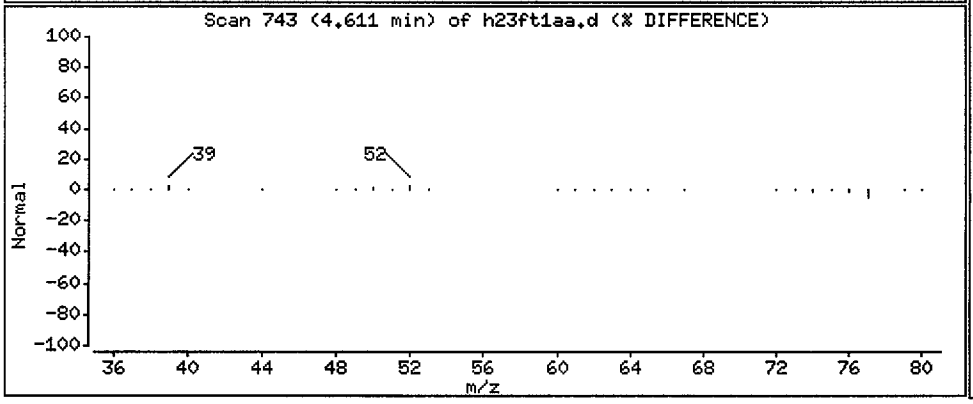
43 Benzene

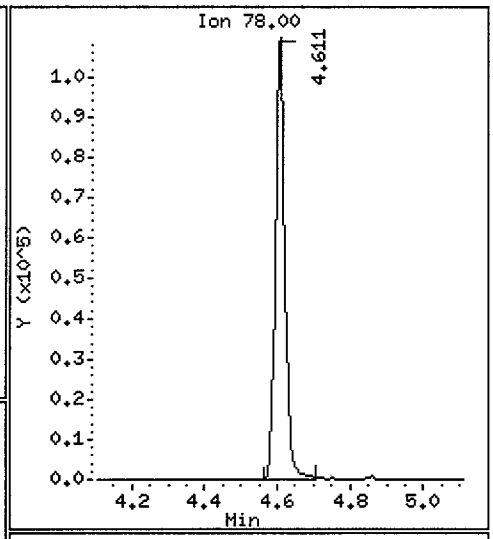
Concentration: 0.063766 ug

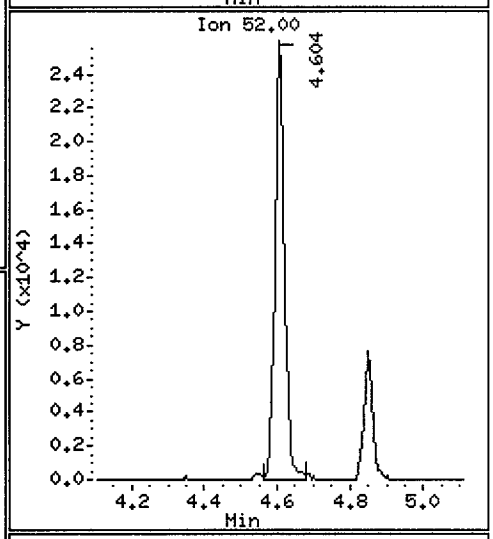


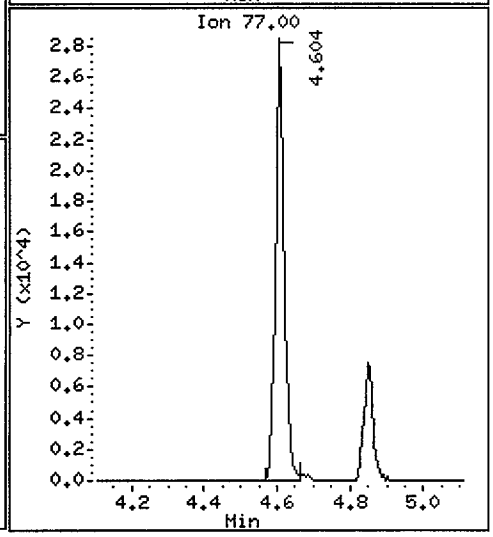












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

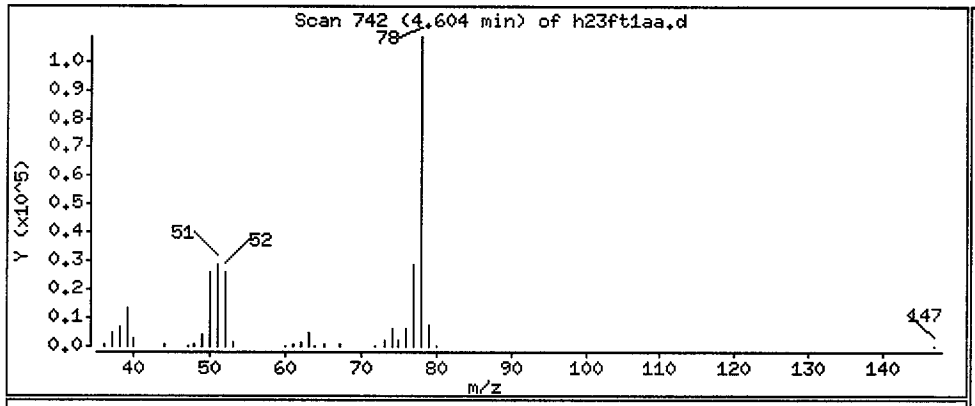
Operator: 22980

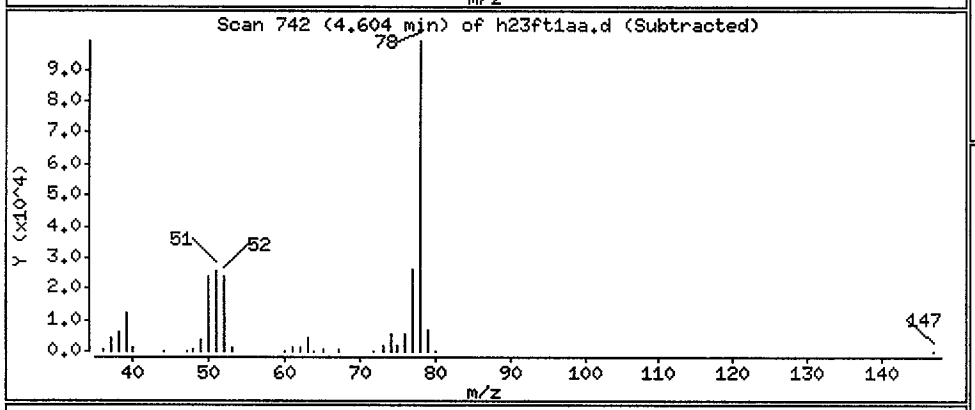
Column phase: J+W 624

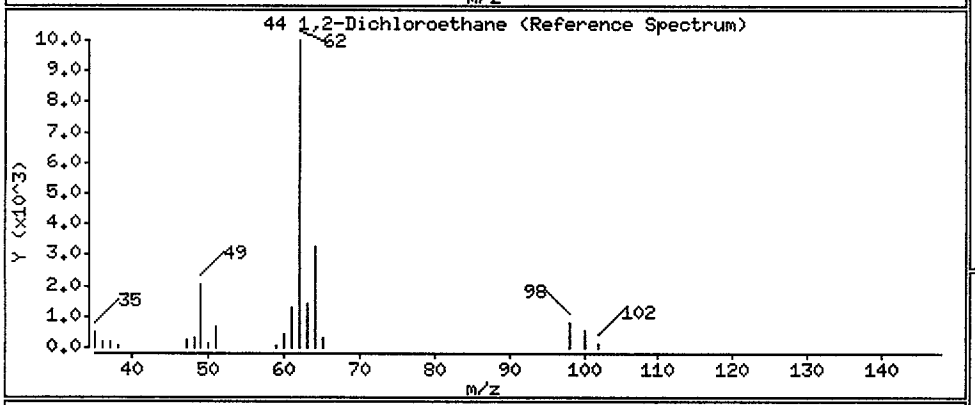
Column diameter: 0.18

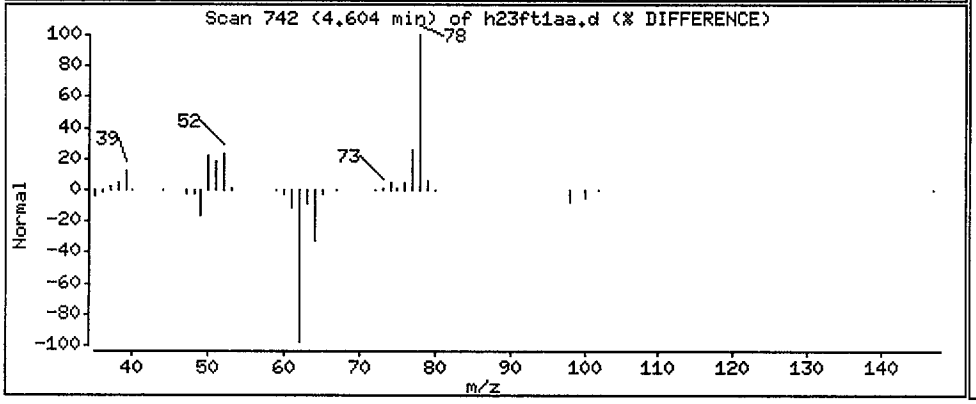
44 1,2-Dichloroethane

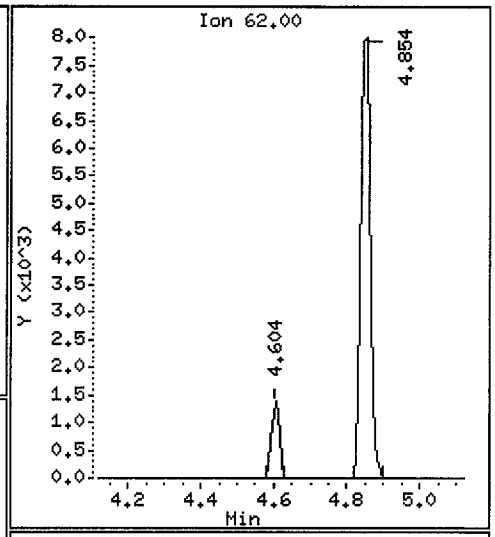
Concentration: 0.0037668 ug

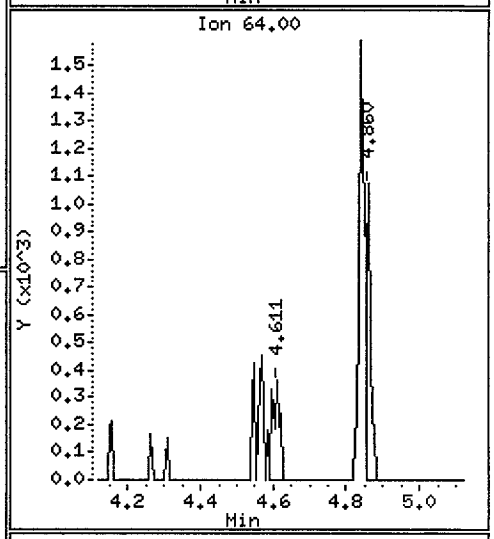


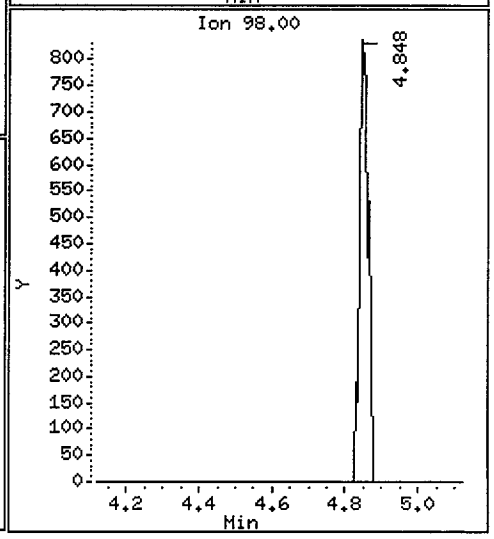












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

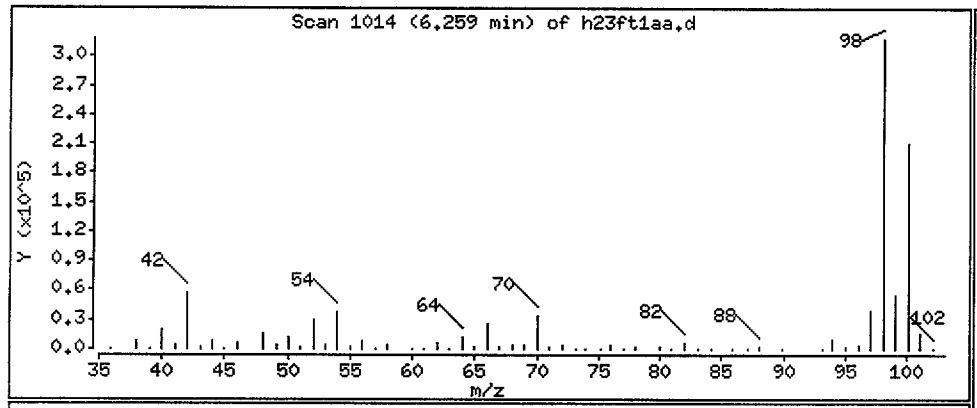
Operator: 22980

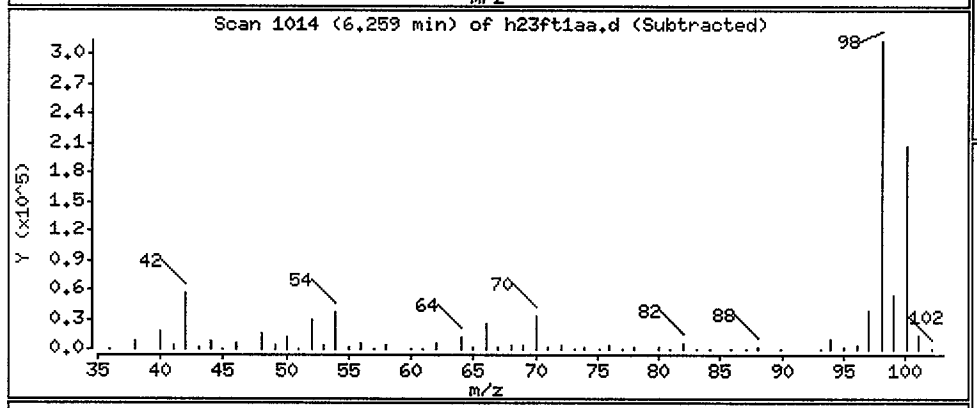
Column phase: J+W 624

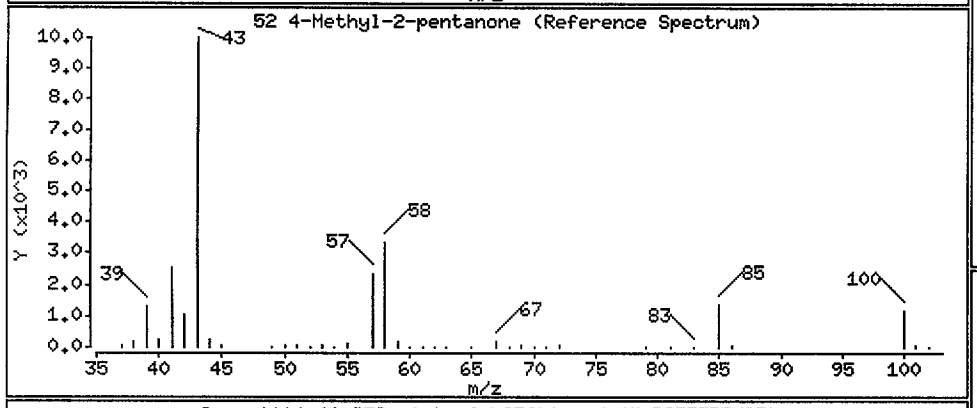
Column diameter: 0.18

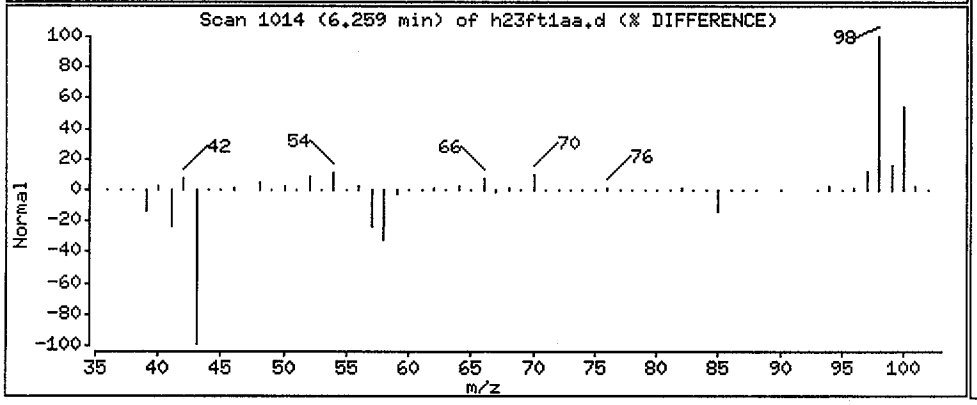
52 4-Methyl-2-pentanone

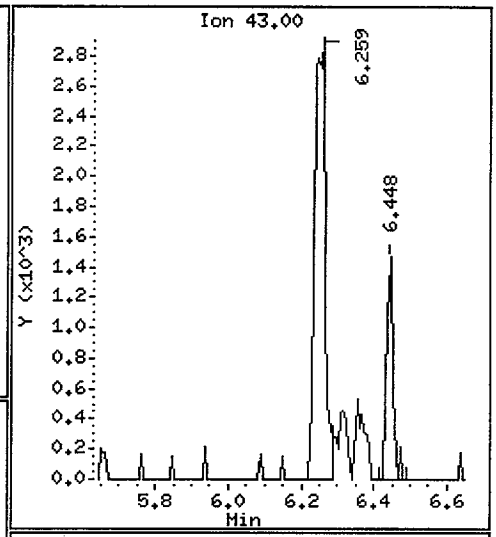
Concentration: 0.035309 ug

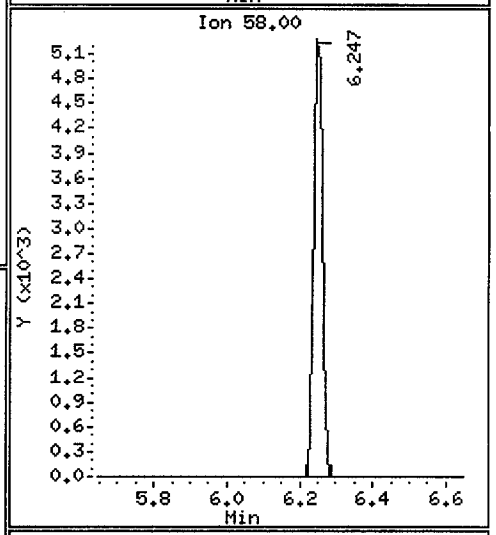


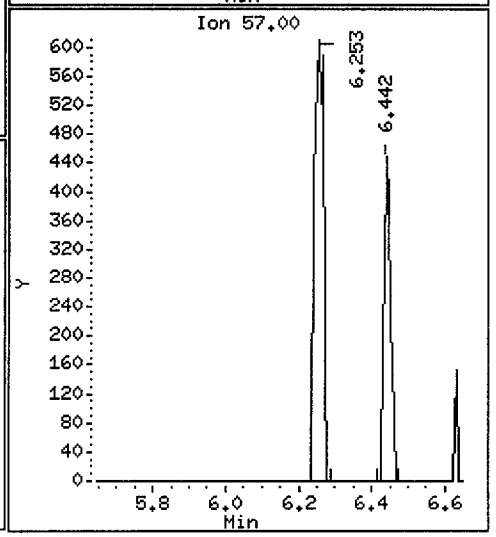












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

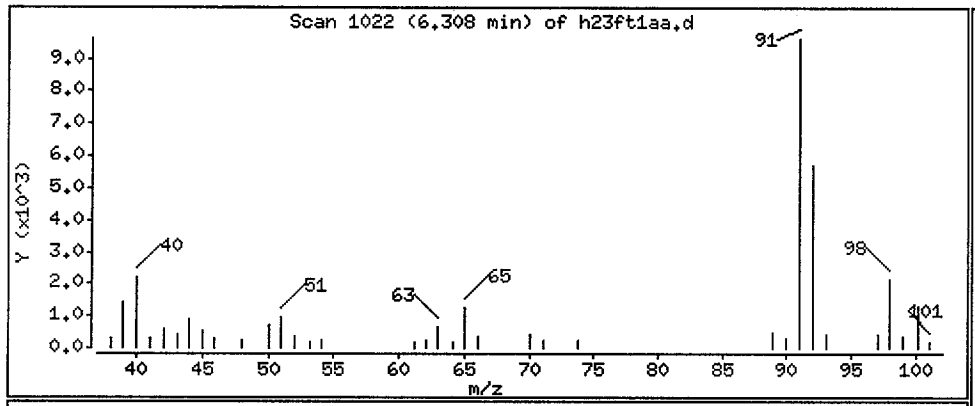
Operator: 22980

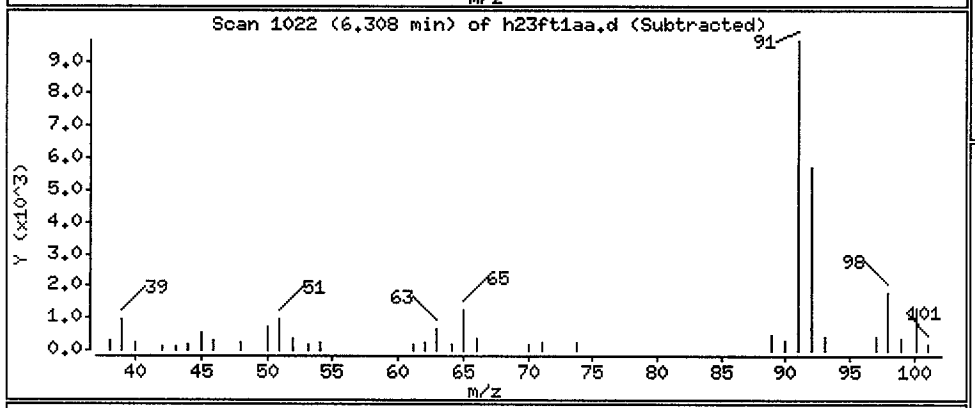
Column phase: J+W 624

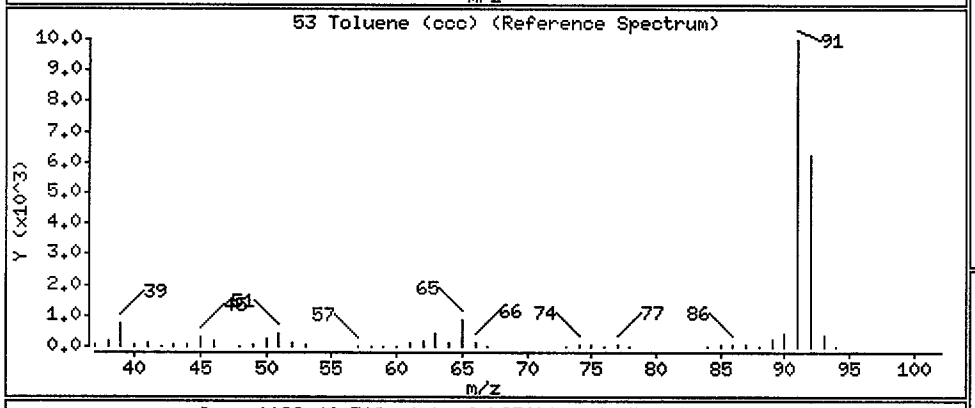
Column diameter: 0.18

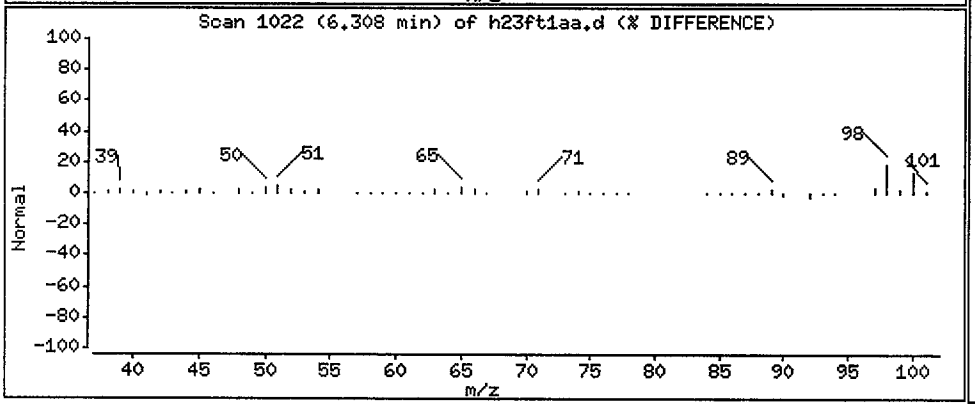
53 Toluene (ccc)

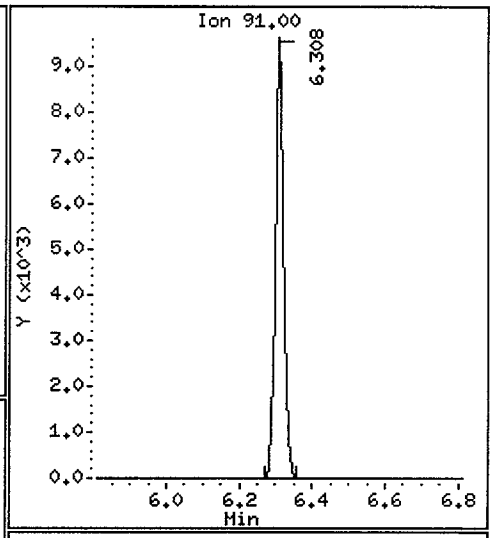
Concentration: 0.0035774 ug

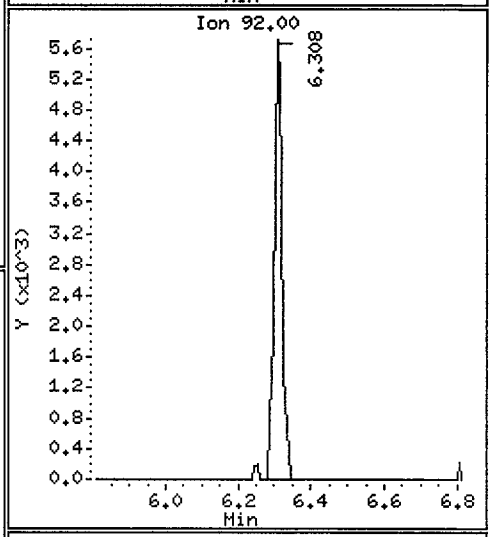


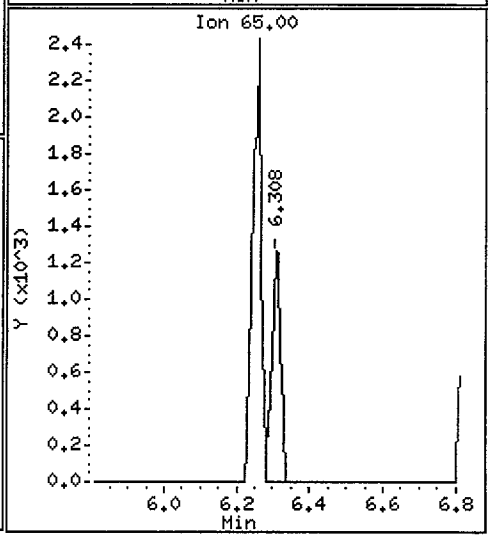












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

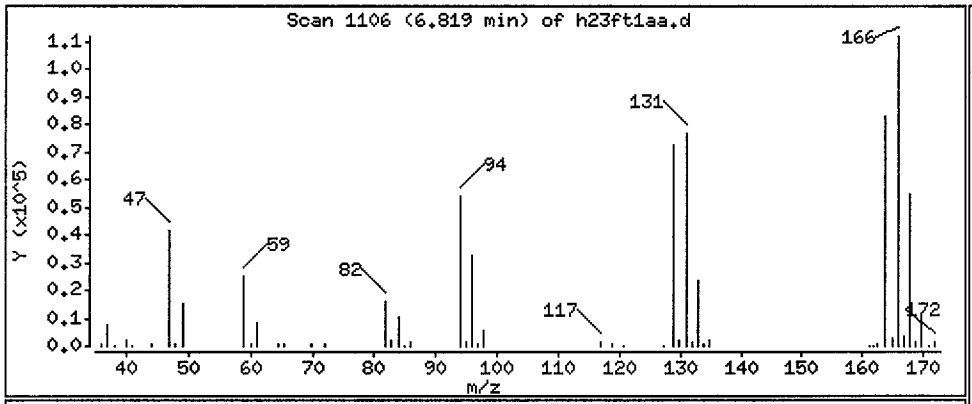
Operator: 22980

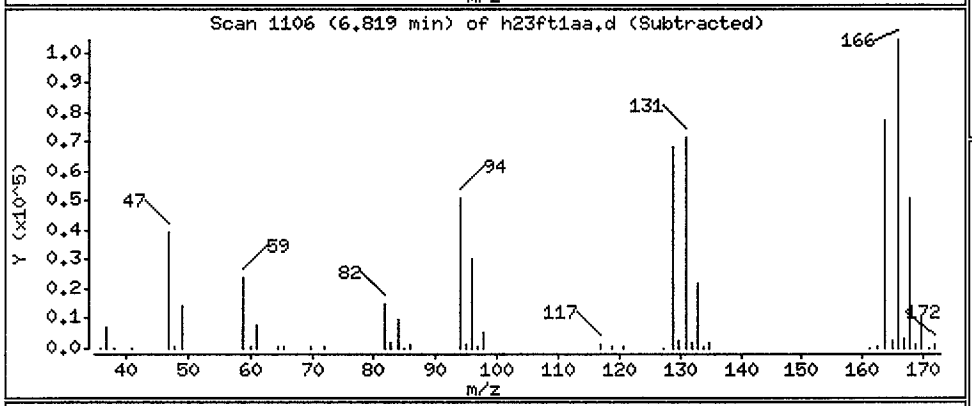
Column phase: J+W 624

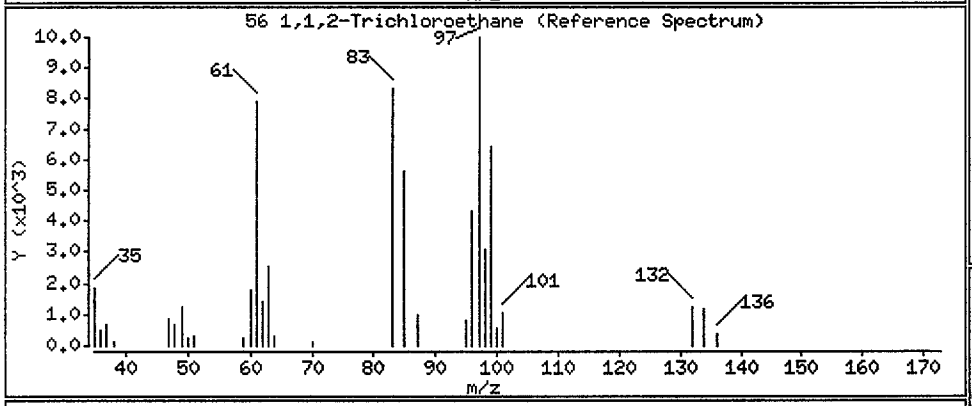
Column diameter: 0.18

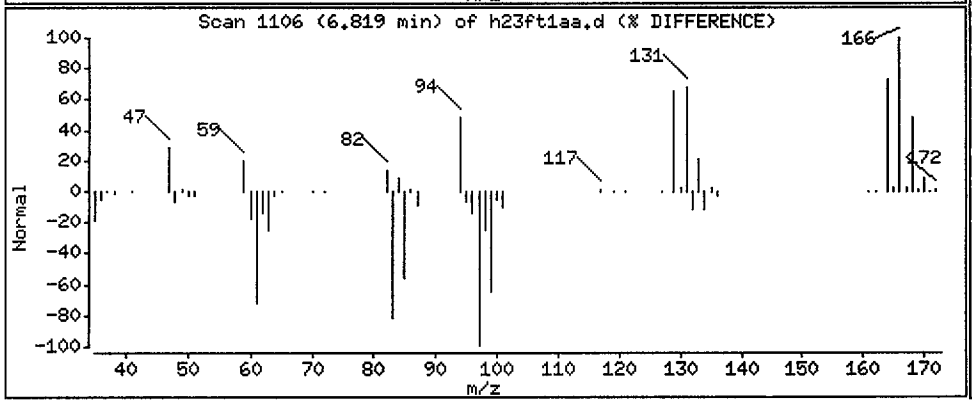
56 1,1,2-Trichloroethane

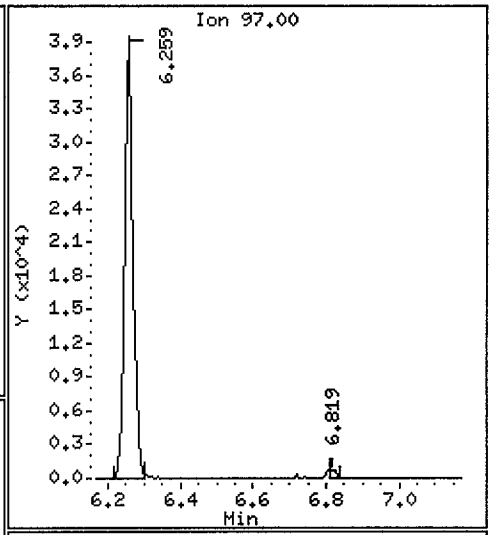
Concentration: 0.0027573 ug

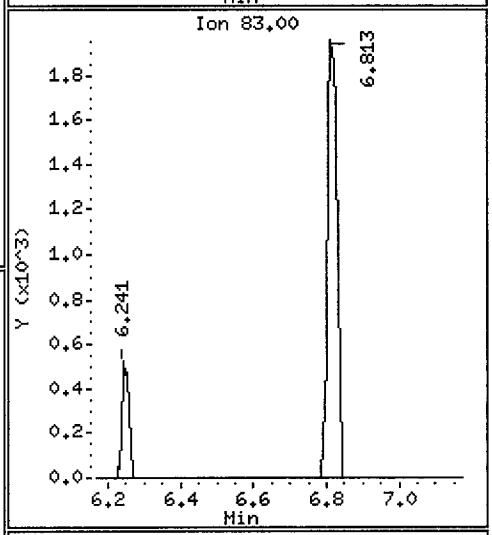


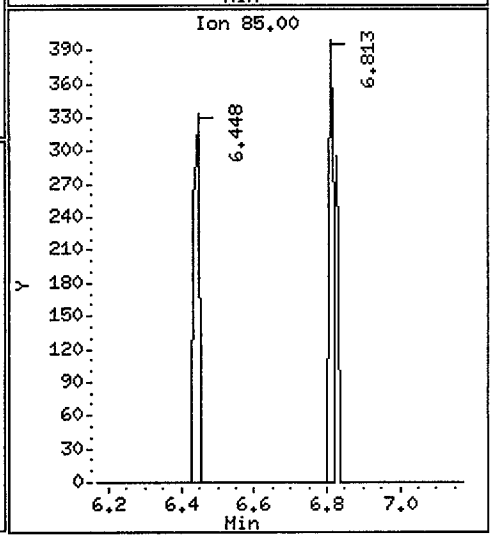












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

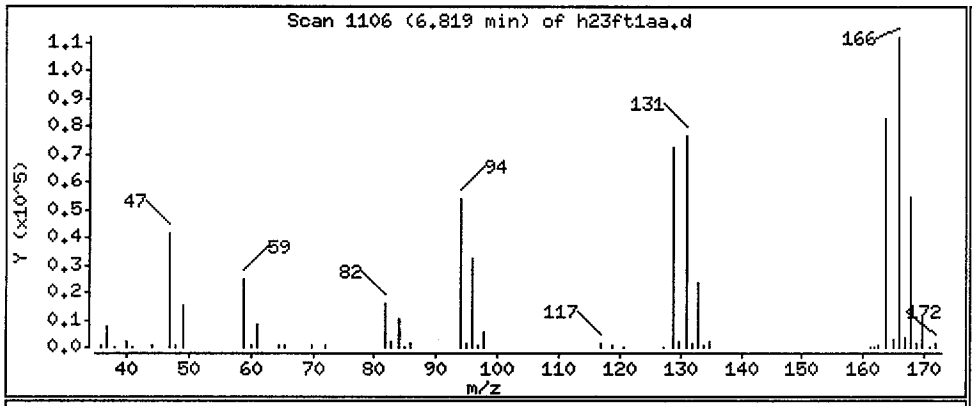
Operator: 22980

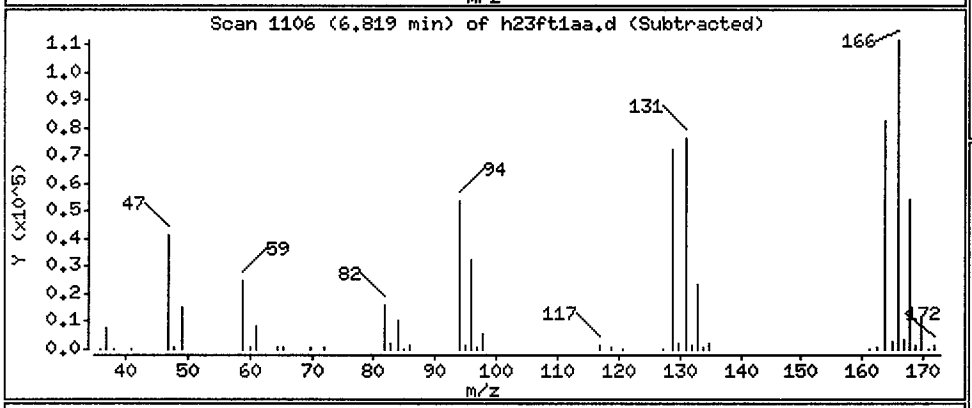
Column phase: J+W 624

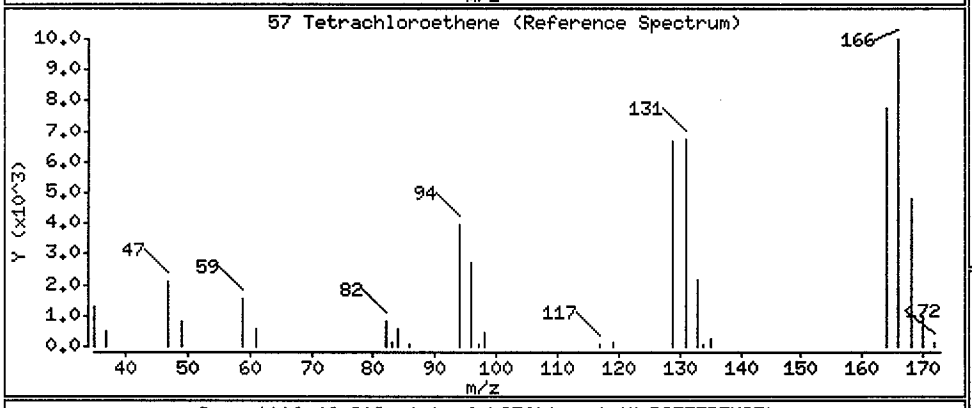
Column diameter: 0.18

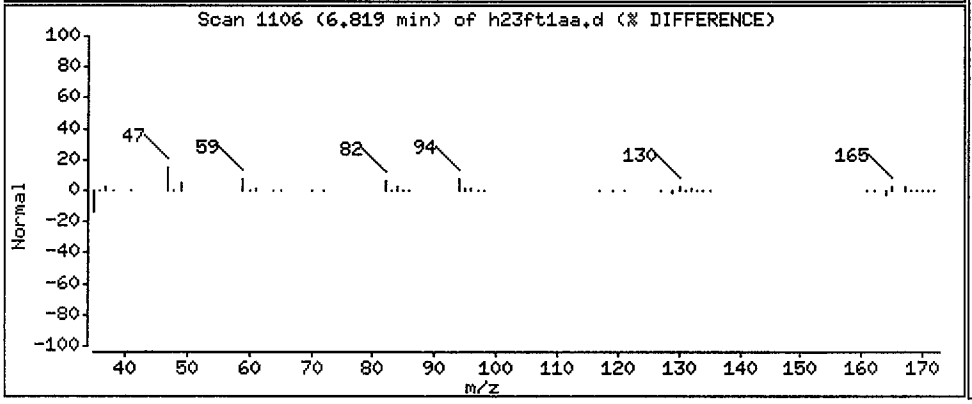
57 Tetrachloroethene

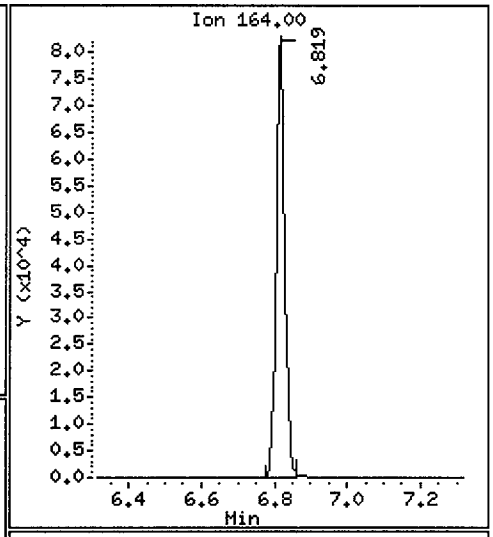
Concentration: 0.15031 ug

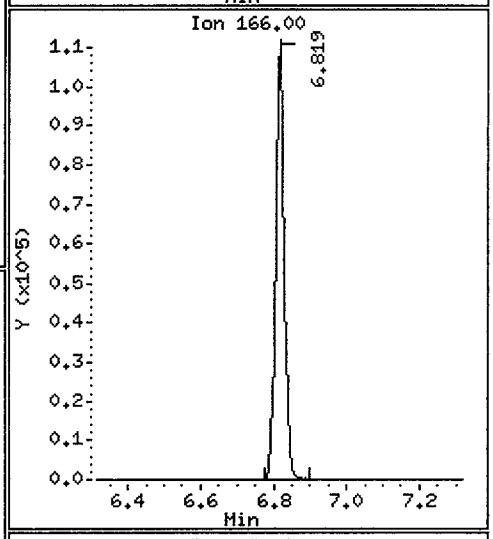


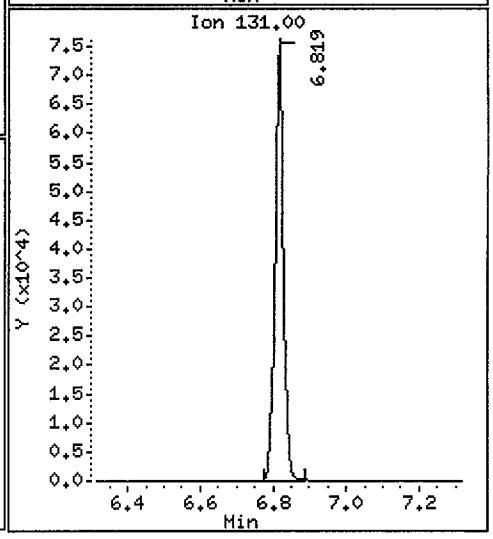












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FT1AA,1,0,,,

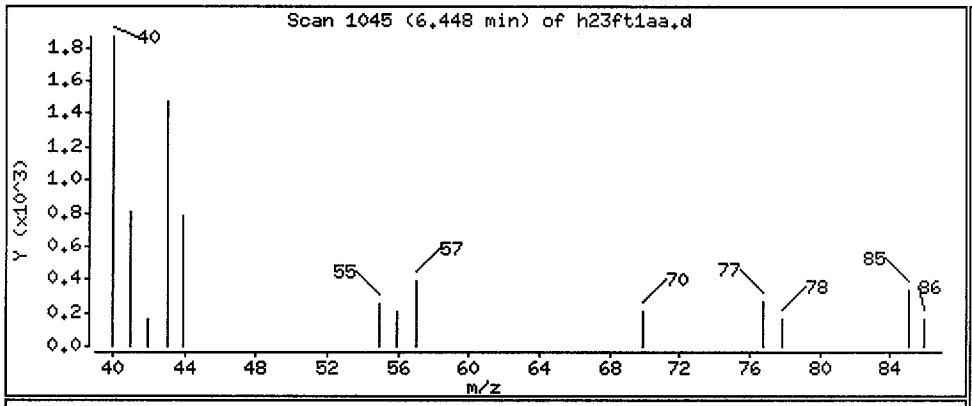
Operator: 22980

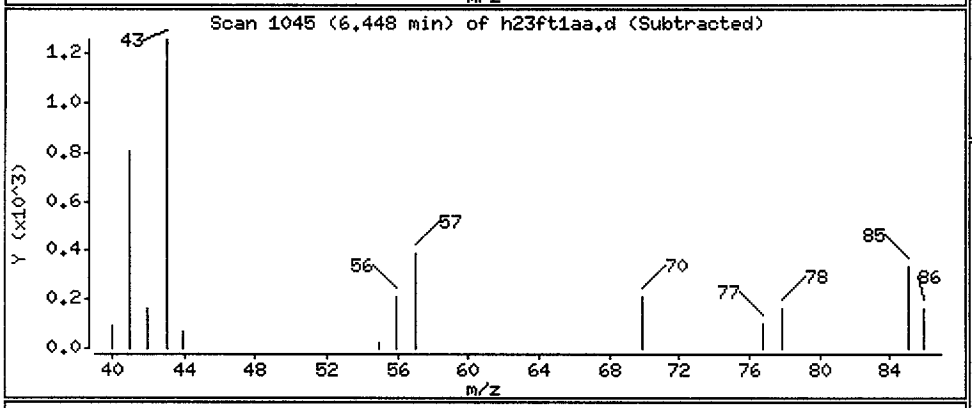
Column phase: J+W 624

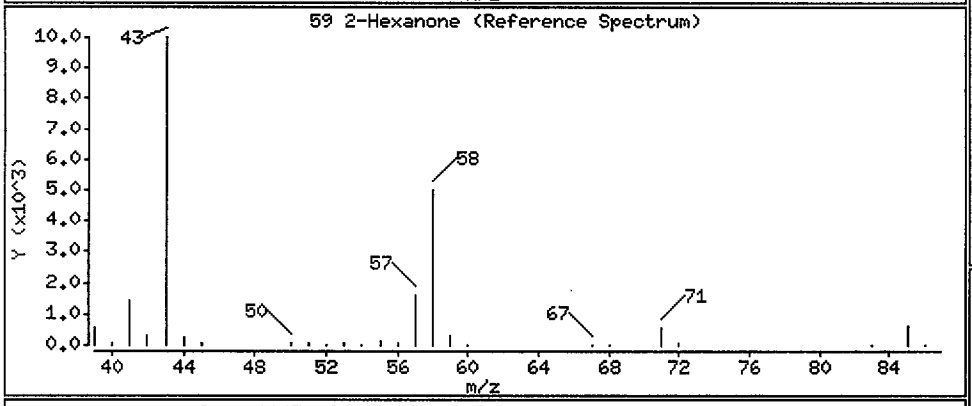
Column diameter: 0.18

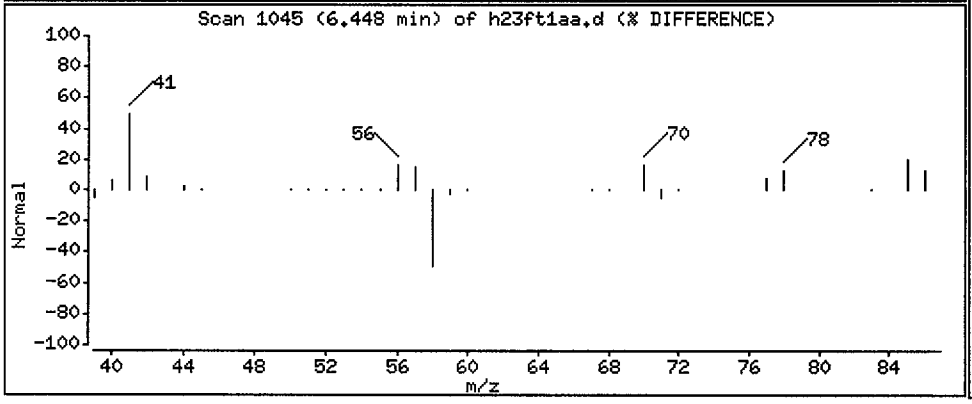
59 2-Hexanone

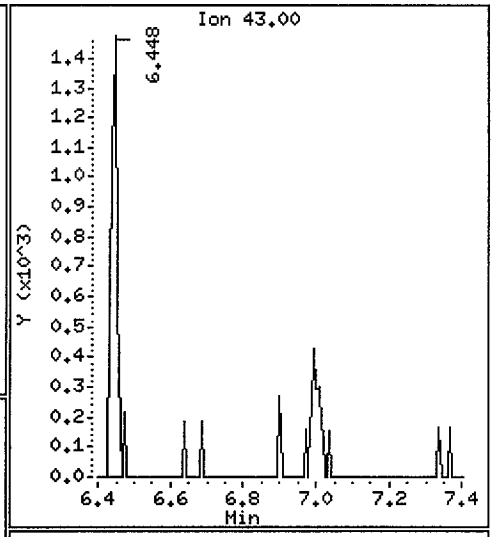
Concentration: 0.013589 ug

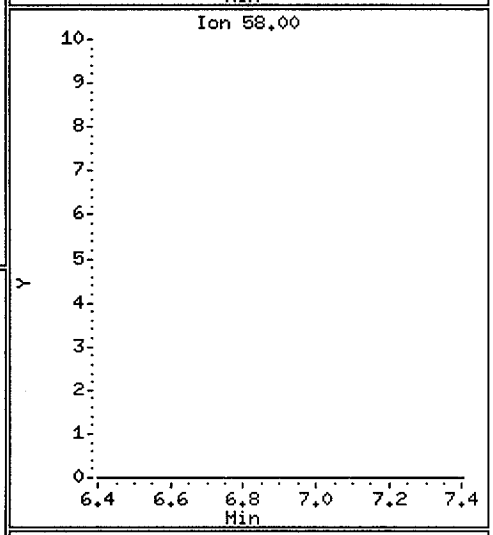


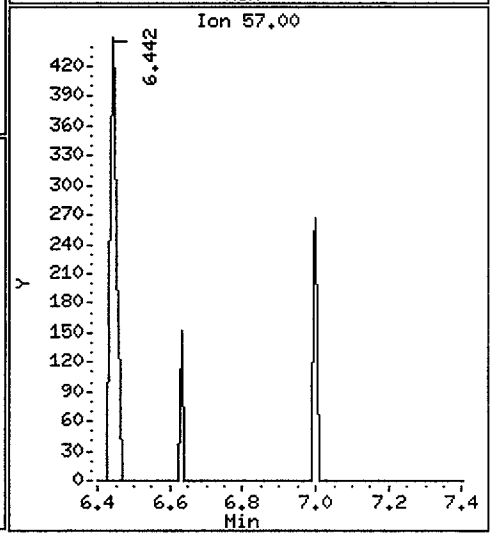












Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Report Date: 17-Apr-2006 18:06

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d
Lab Smp Id: H23FT1AA Client Smp ID: REGION 9 AUDIT SAMP
Inj Date : 12-APR-2006 12:29
Operator : 22980 Inst ID: mx.i
Smp Info : H23FT1AA,1,0,,,
Misc Info : X041206,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 17-Apr-2006 17:12 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.854	1031437	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide Air					CAS #: 124-38-9		
1.015	1259534	12.2114487	0.30529	5	NIST02.1	77	1

MT 4/17/06

Data File: /var/chem/gcms/mx.i/X041206.b/h23ft1aa.d

Date : 12-APR-2006 12:29

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

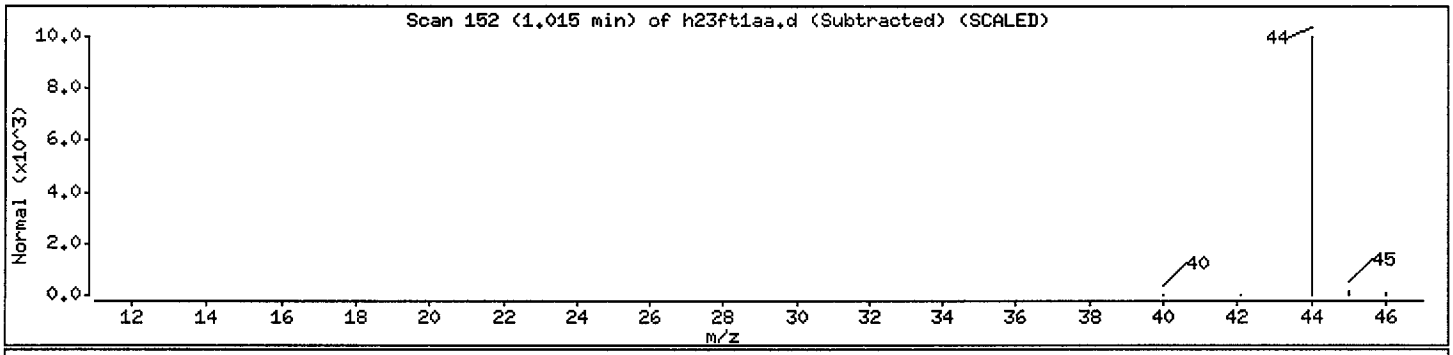
Sample Info: H23FT1AA,1,0,,,

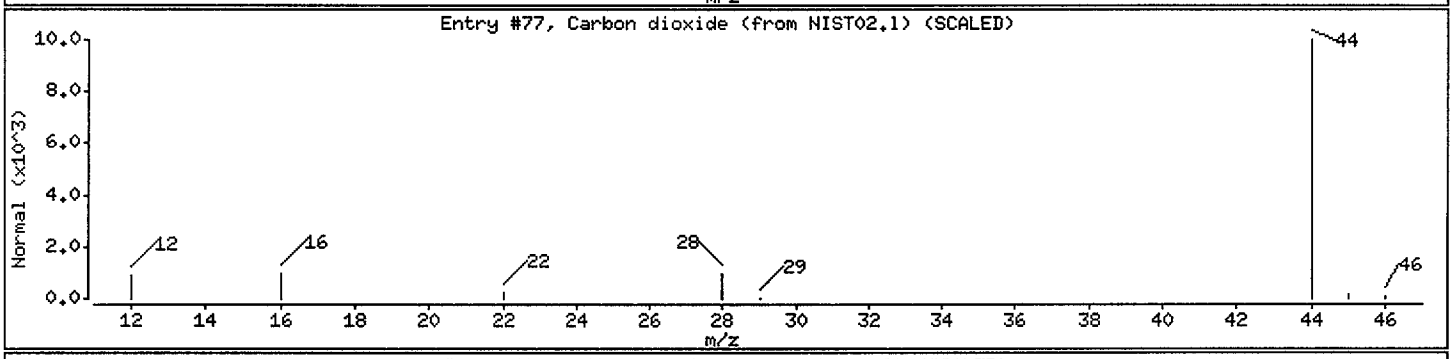
Operator: 22980

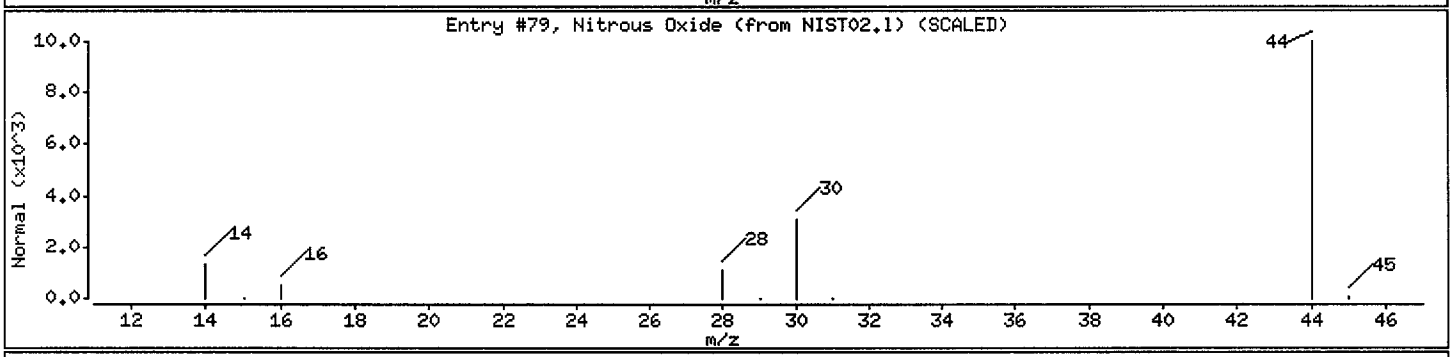
Column phase: J+W 624

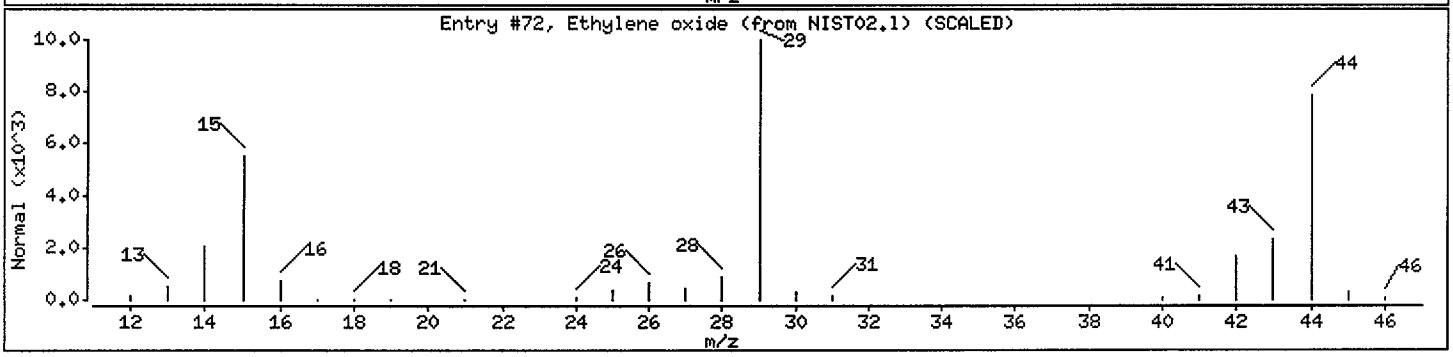
Column diameter: 0.18

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









STL Knoxville - ACS

Client Sample ID: REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #...: H6D120117-002 **Work Order #...:** H23FX1AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.24 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.069**	**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	**0.053 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	**0.018**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.053**	**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	**0.086**	**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: REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #...: H6D120117-002 **Work Order #...:** H23FX1AA **Matrix.....:** AA

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	**0.12**	**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	**0.15**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.036 J,B**	**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	91	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	78	(57 - 127)
Bromofluorobenzene	70	(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

REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #: H6D120117-002 **Work Order #:** H23FX1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d
Report Date: 12-Apr-2006 12:19

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X041206.b/h23fx1aa.d
Lab Smp Id: H23FX1AA Client Smp ID: REGION 9 AUDIT SAMP
Inj Date : 12-APR-2006 12:02
Operator : 22980 Inst ID: mx.i
Smp Info : H23FX1AA,1,0,,,
Misc Info : X041206,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 12-Apr-2006 11:24 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.848	4.851	(1.000)	750162	10.0000	
* 2 Chlorobenzene-d5	119	7.579	7.582	(1.000)	185463	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.737	10.740	(1.000)	250126	10.0000	
$ 4 Dibromofluoromethane	113	4.270	4.273	(0.881)	115616	9.06486	0.22662
$ 5 1,2-Dichloroethane-d4	65	4.550	4.553	(0.938)	97331	9.79016	0.24475
$ 6 Toluene-d8	98	6.247	6.250	(0.824)	709350	7.81194	0.19530
$ 7 4-Bromofluorobenzene	95	8.869	8.872	(0.826)	206806	6.97337	0.17433
21 Acetone	43	2.390	2.381	(0.493)	10113	9.51829	0.23796
23 Carbon Disulfide	76	2.487	2.496	(0.513)	40184	0.70289	0.017572
26 Methylene Chloride	84	2.743	2.746	(0.566)	53354	4.60031	0.11501
33 *Vinyl Acetate	86	3.242	3.421	(0.669)	1809	2.12028	~~0.053007~~
36 2-Butanone	43	3.875	3.871	(0.799)	3497	2.11033	0.052758
38 *THF	42	4.112	4.109	(0.848)	1449	1.42754	0.035688
39 Chloroform (ccc)	83	4.136	4.139	(0.853)	98287	3.44727	0.086182
41 Carbon Tetrachloride	117	4.434	4.437	(0.915)	57289	2.12743	0.053186
42 1,1-Dichloropropene	75	4.605	4.437	(0.950)	3838	0~~.12923~~	~~0.0032306~~
43 Benzene	78	4.605	4.607	(0.950)	209065	2.75183	0.068796
44 1,2-Dichloroethane	62	4.611	4.620	(0.951)	1784	~~0.13960~~	~~0.0034900~~
52 4-Methyl-2-pentanone	43	6.253	6.147	(1.290)	5501	~~1.38604~~	~~0.034651~~
53 Toluene (ccc)	91	6.308	6.311	(0.832)	14850	0.13670	0.0034174

4/12/06
ND
MT 4/17/06

Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d
Report Date: 12-Apr-2006 12:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
54 trans-1,3-Dichloropropene	75	6.716	6.505	(0.886)	1050	0.05515	0.0013788
56 1,1,2-Trichloroethane	97	6.813	6.670	(0.899)	1277	0.14888	0.0037220
57 Tetrachloroethene	164	6.813	6.816	(0.899)	137673	5.89804	0.14745

LKT
4/17/06

Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d
Report Date: 12-Apr-2006 12:19

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h23fx1aa.d
Lab Smp Id: H23FX1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,focus.sub

Calibration Date: 12-APR-2006
Calibration Time: 08:38
Client Smp ID: REGION 9 AUDIT SAMP
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	977885	488942	1955770	750162	-23.29
2 Chlorobenzene-d5	201795	100898	403590	185463	-8.09
3 1,4 Dichlorobenze	245212	122606	490424	250126	2.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	-0.06
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.04
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.74	-0.03

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

Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d
Report Date: 12-Apr-2006 12:19

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H23FX1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Client SDG: H6D120117
Fraction: VOA
Client Smp ID: REGION 9 AUDIT SAMP
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD
Method File: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,focus.sub

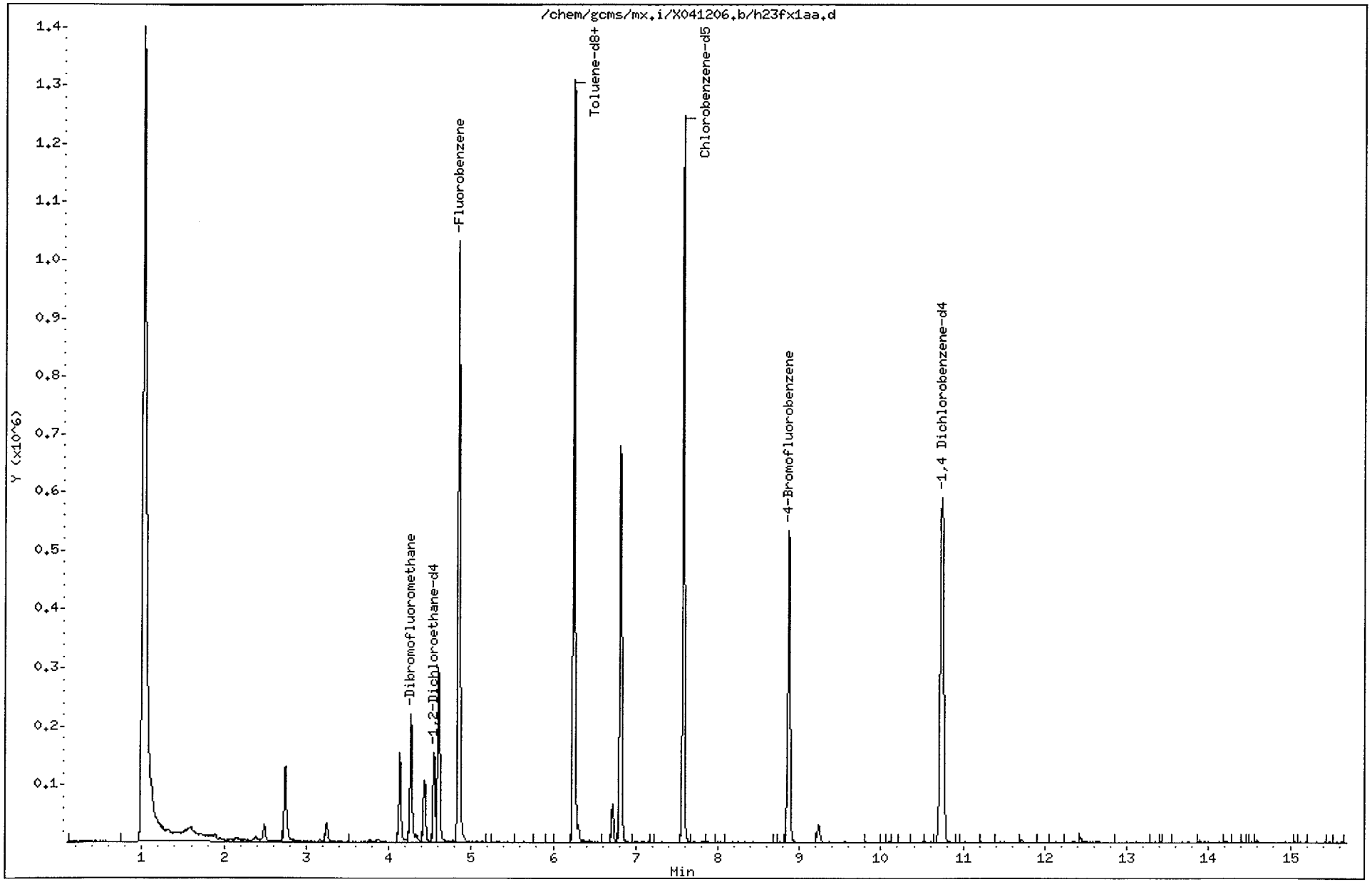
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.22662	90.65	50-150
$ 5 1,2-Dichloroethane	0.25000	0.24475	97.90	50-150
$ 6 Toluene-d8	0.25000	0.19530	78.12	50-150
$ 7 4-Bromofluorobenze	0.25000	0.17433	69.73	50-150

Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d
Date : 12-APR-2006 12:02
Client ID: REGION 9 AUDIT SAMP
Sample Info: H23FX1AA,1,0,,,

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



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Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

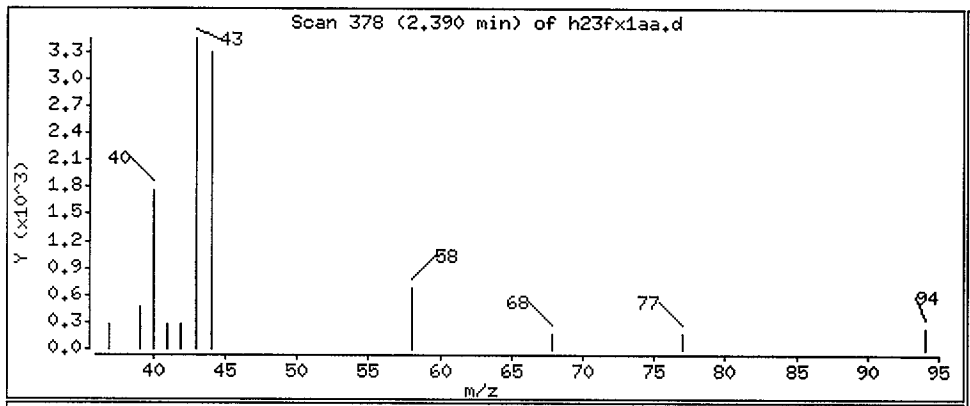
Operator: 22980

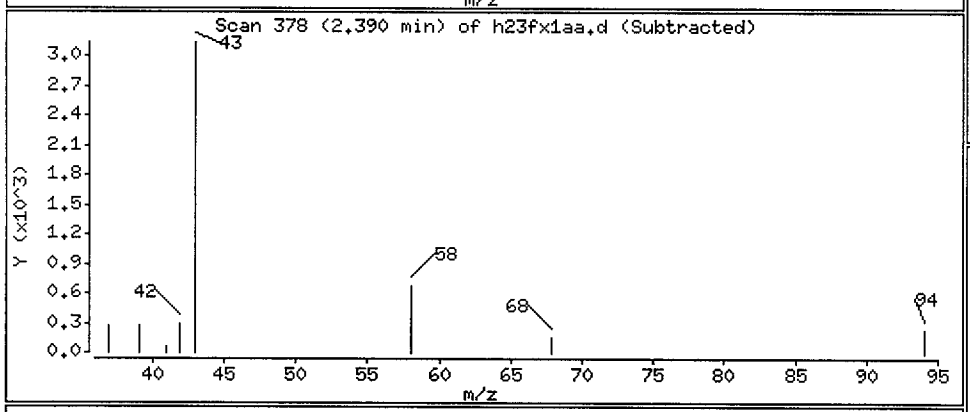
Column phase: J+W 624

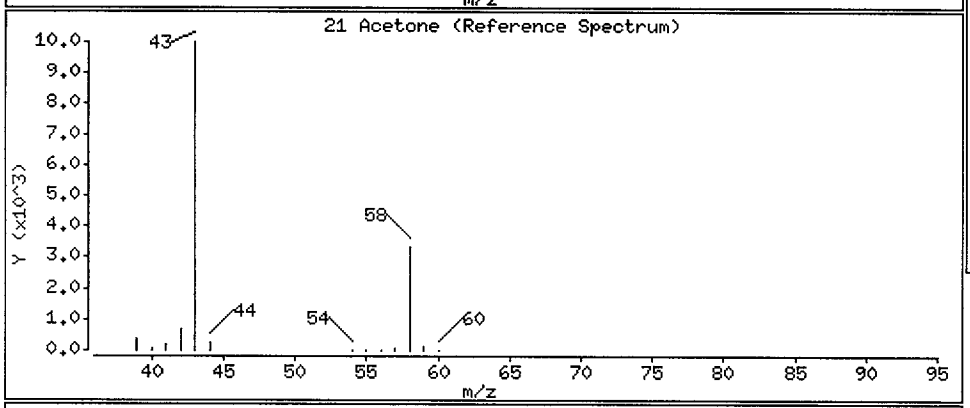
Column diameter: 0.18

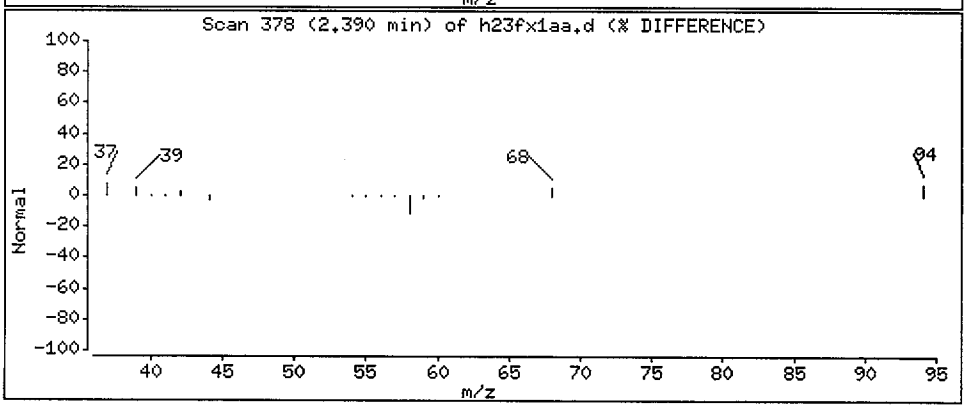
21 Acetone

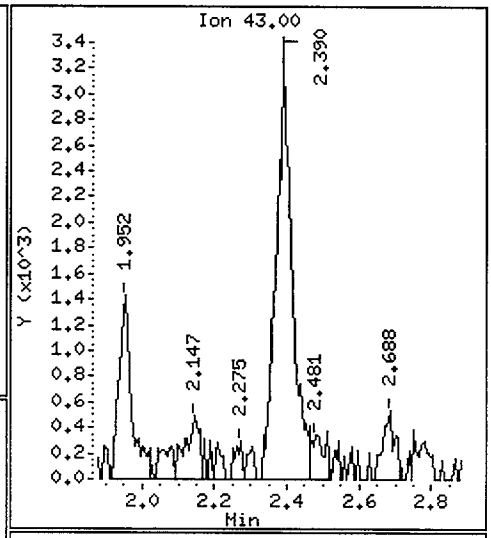
Concentration: 0.23796 ug

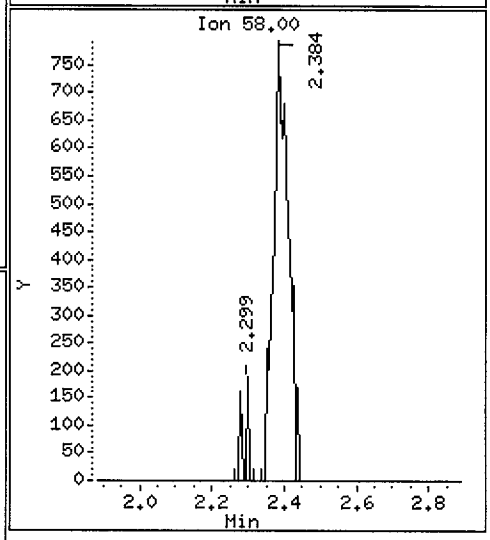












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

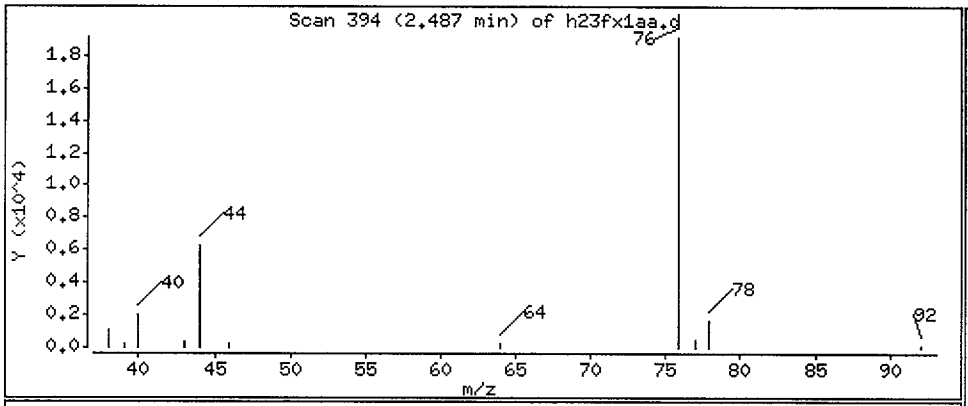
Operator: 22980

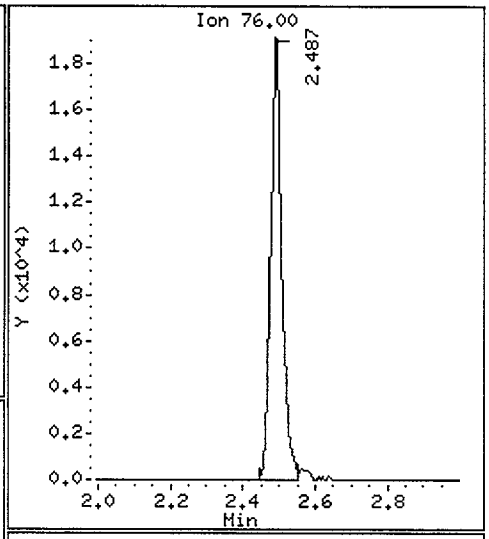
Column phase: J+W 624

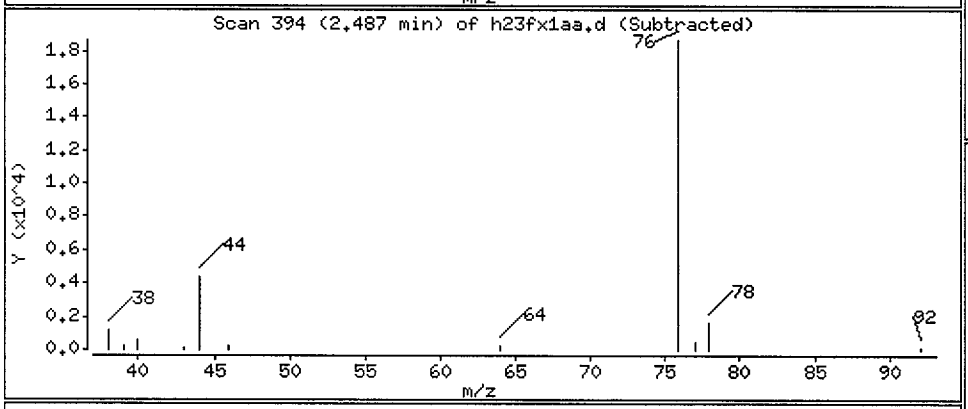
Column diameter: 0.18

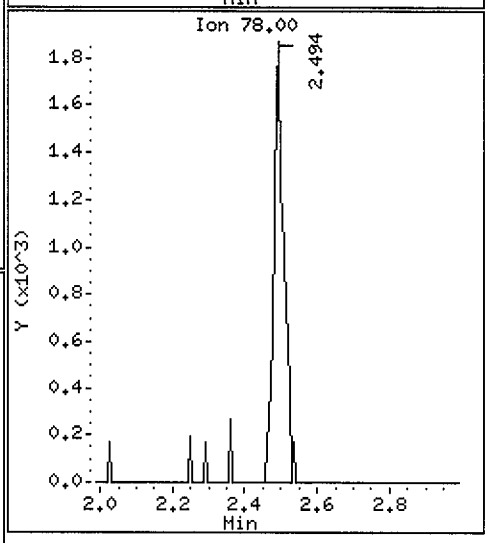
23 Carbon Disulfide

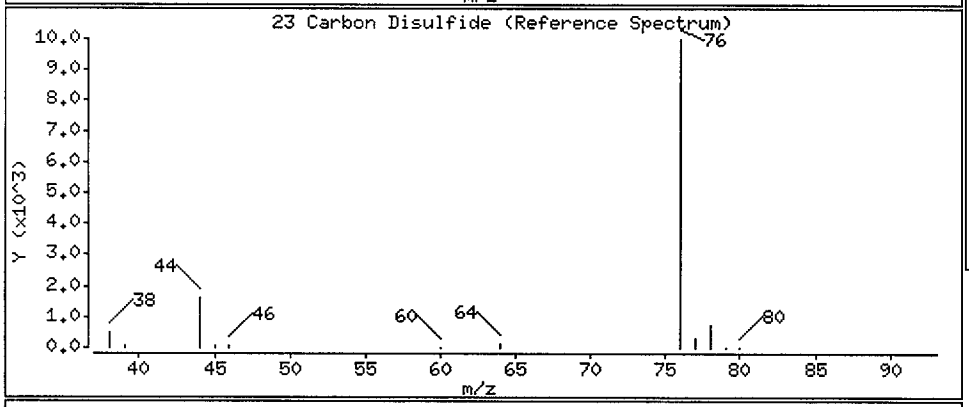
Concentration: 0.017572 ug

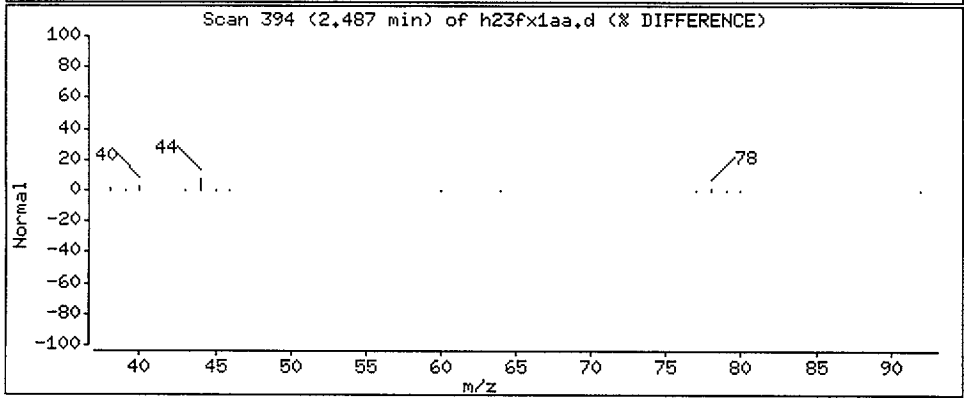












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

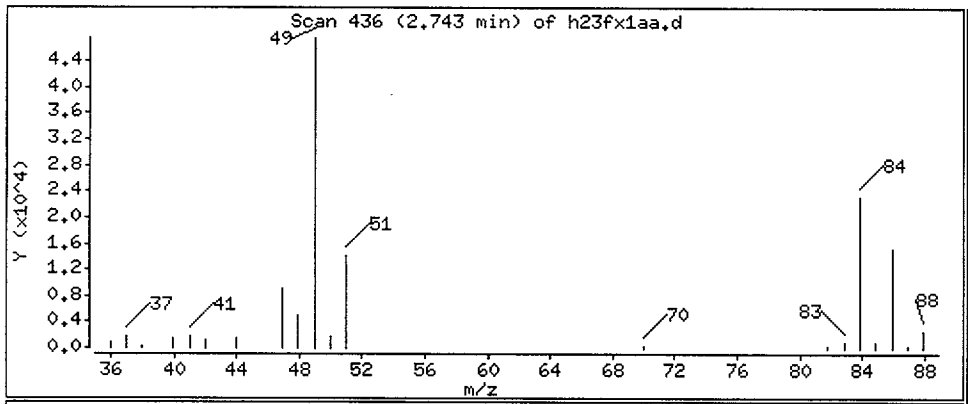
Operator: 22980

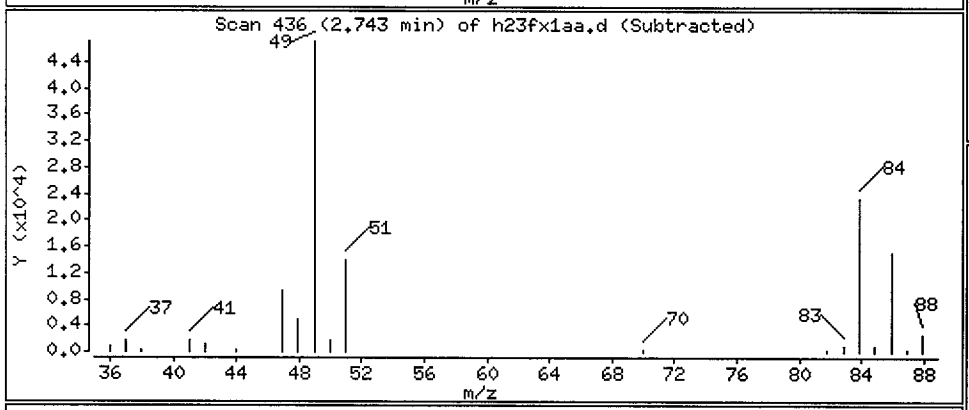
Column phase: J+W 624

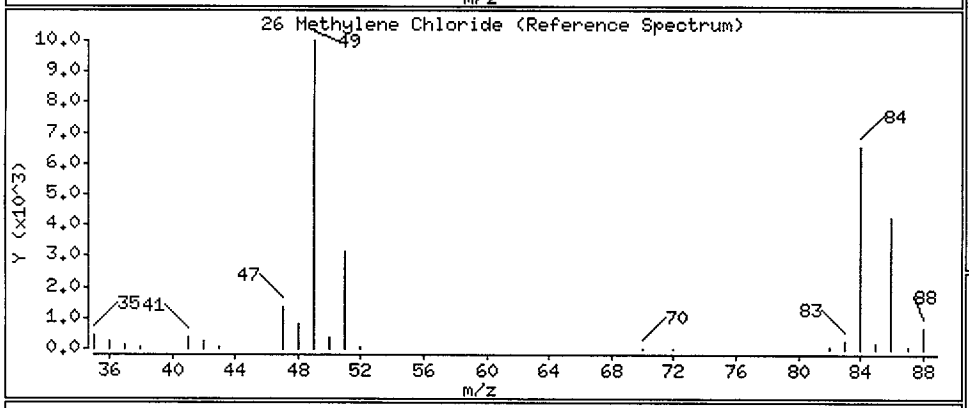
Column diameter: 0.18

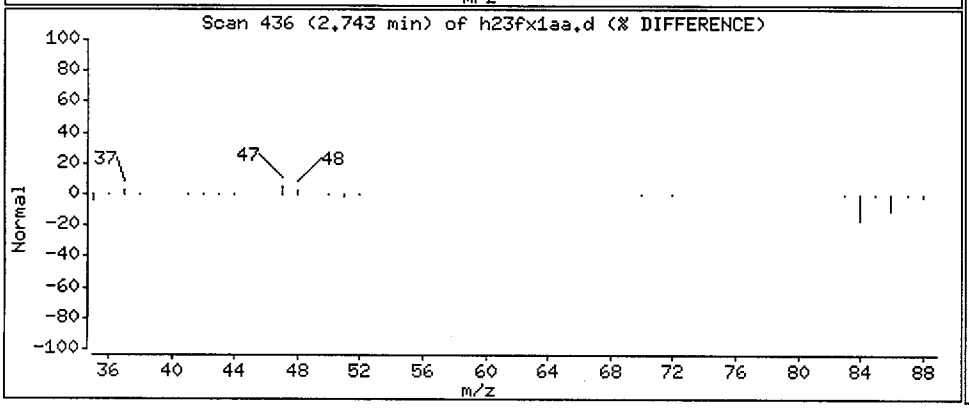
26 Methylene Chloride

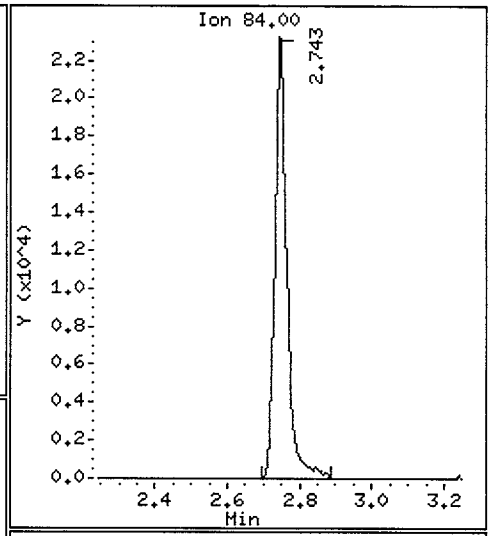
Concentration: 0.11501 ug

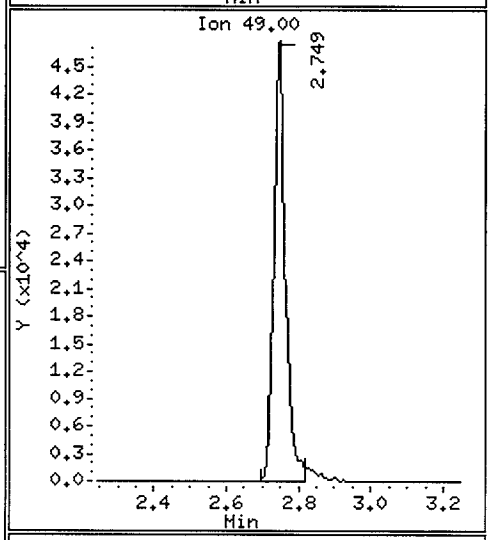


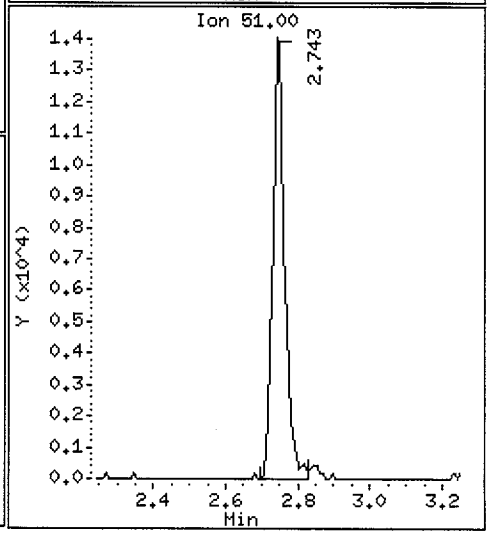












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

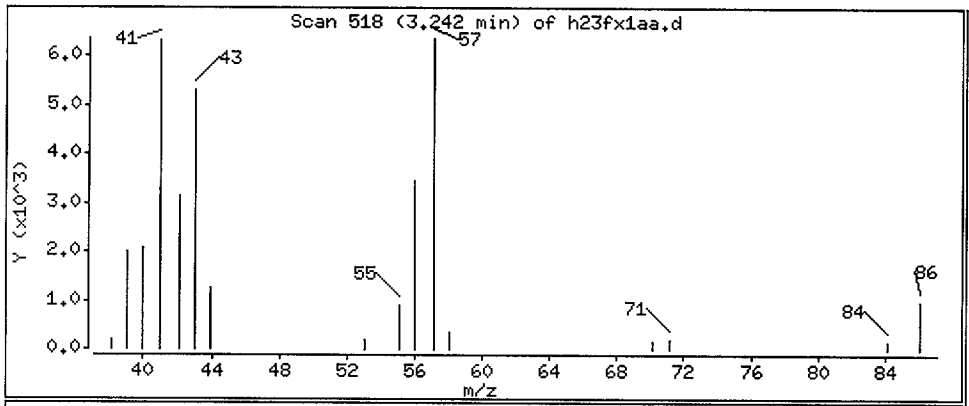
Operator: 22980

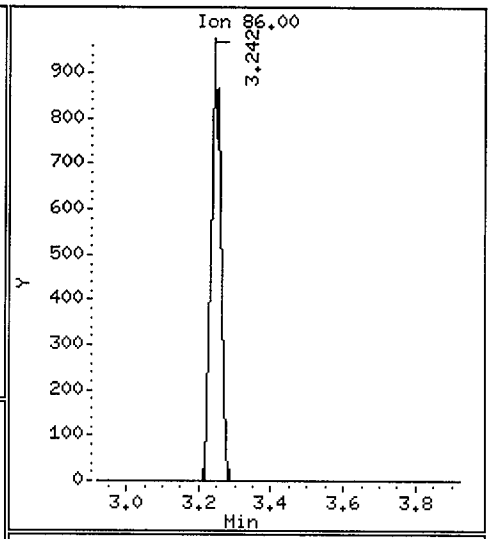
Column phase: J+W 624

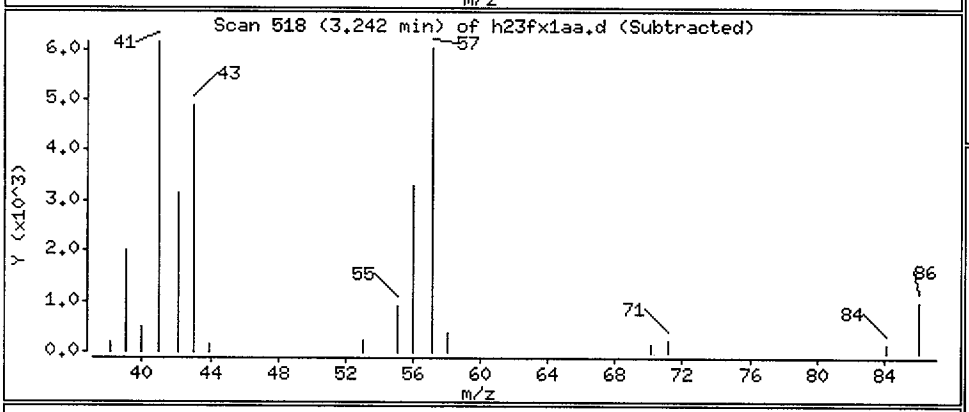
Column diameter: 0.18

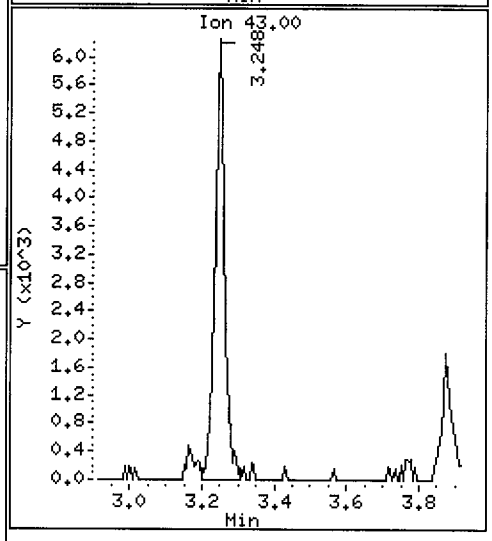
33 *Vinyl Acetate

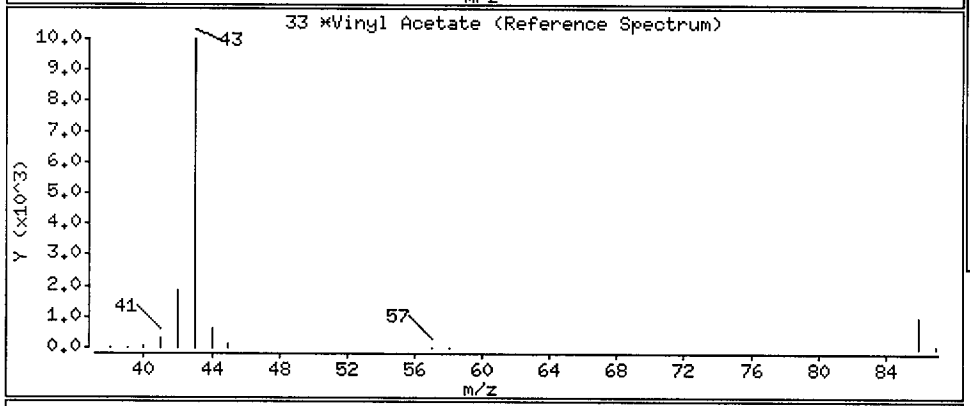
Concentration: 0.053007 ug

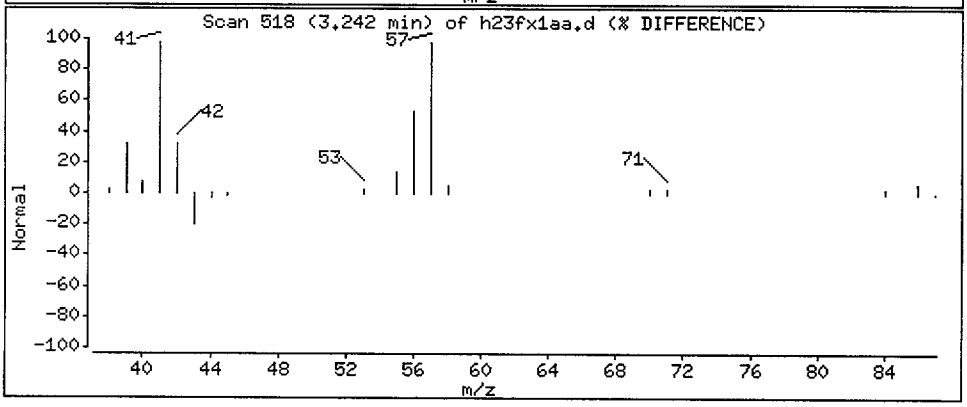












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

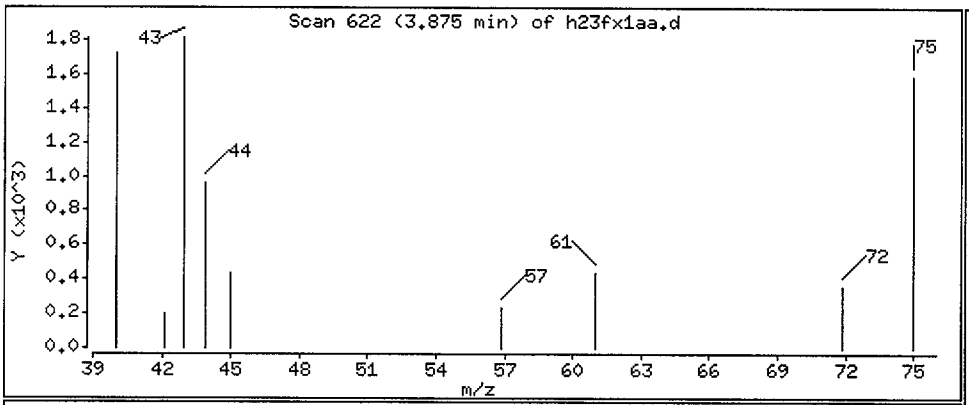
Operator: 22980

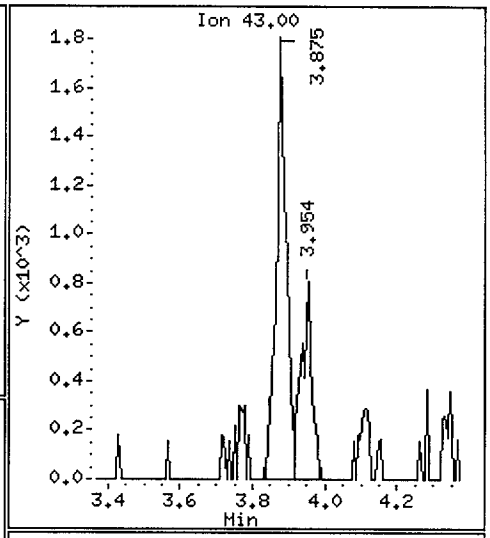
Column phase: J+W 624

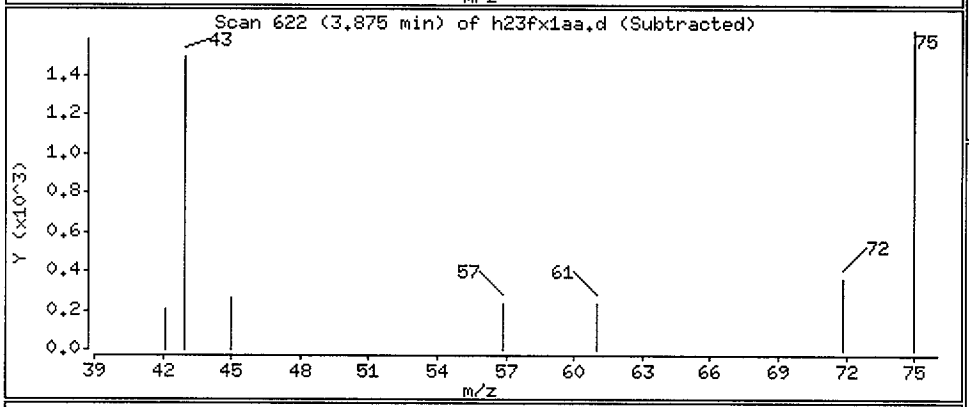
Column diameter: 0.18

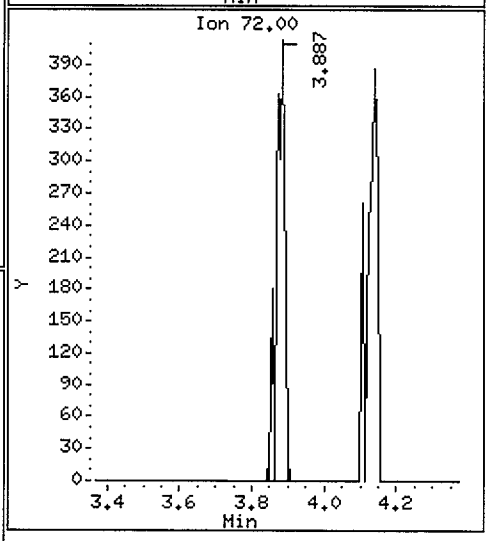
36 2-Butanone

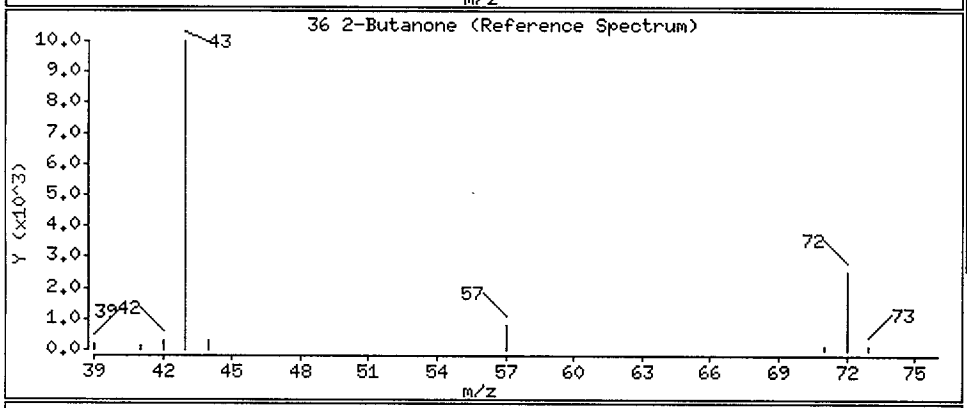
Concentration: 0.052758 ug

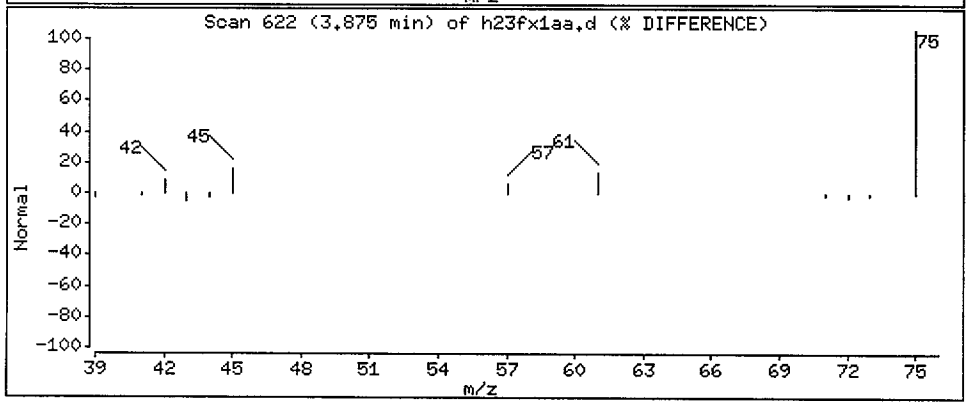












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

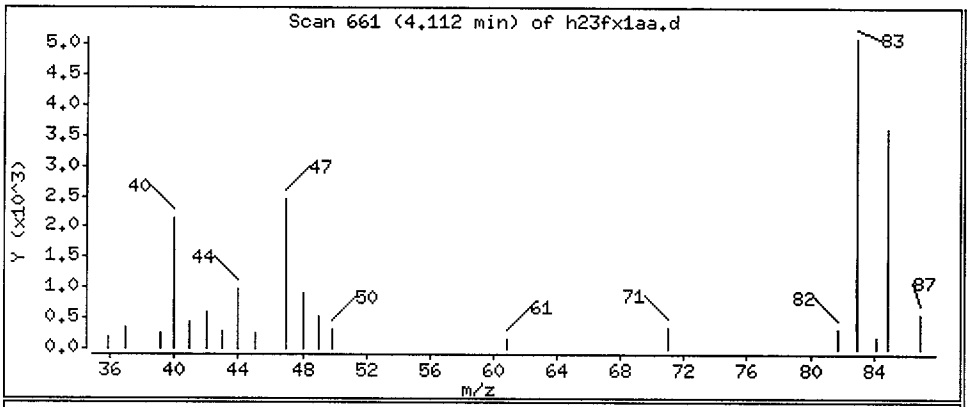
Operator: 22980

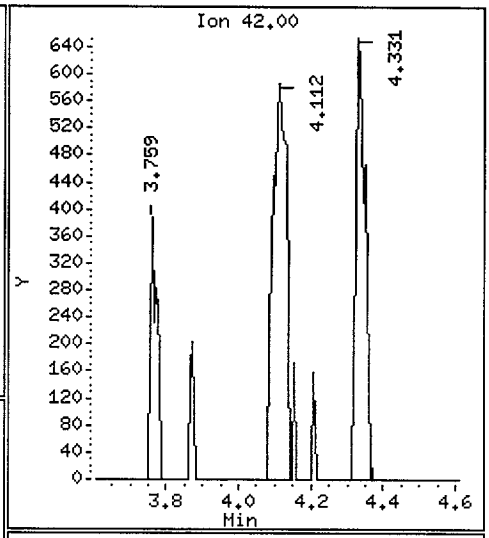
Column phase: J+W 624

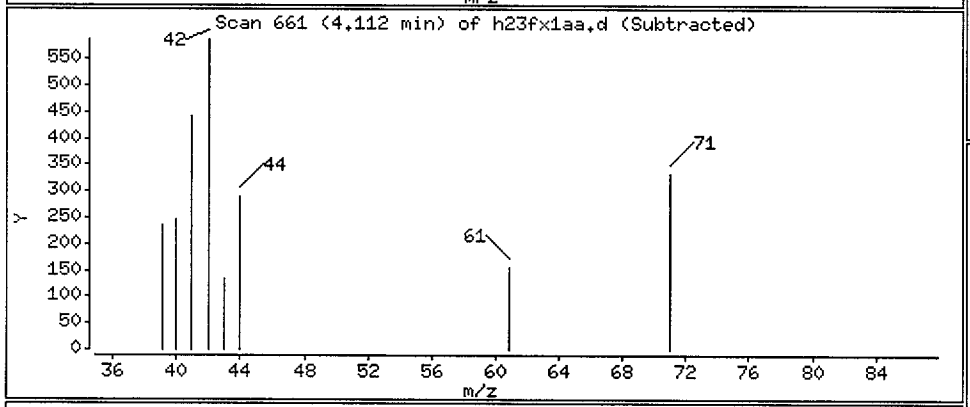
Column diameter: 0.18

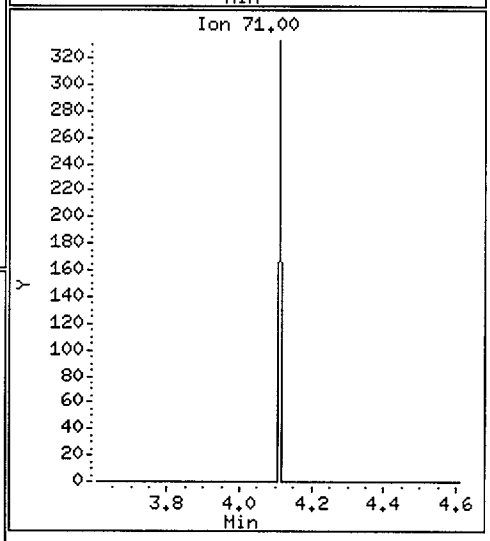
38 *THF

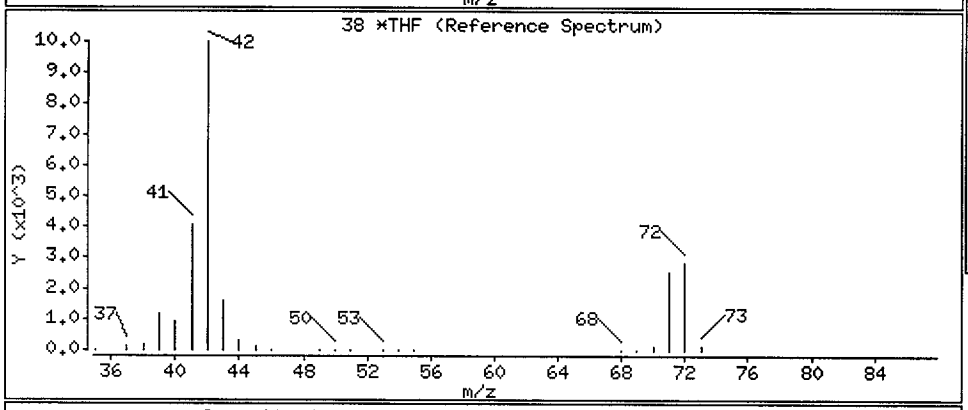
Concentration: 0.035688 ug

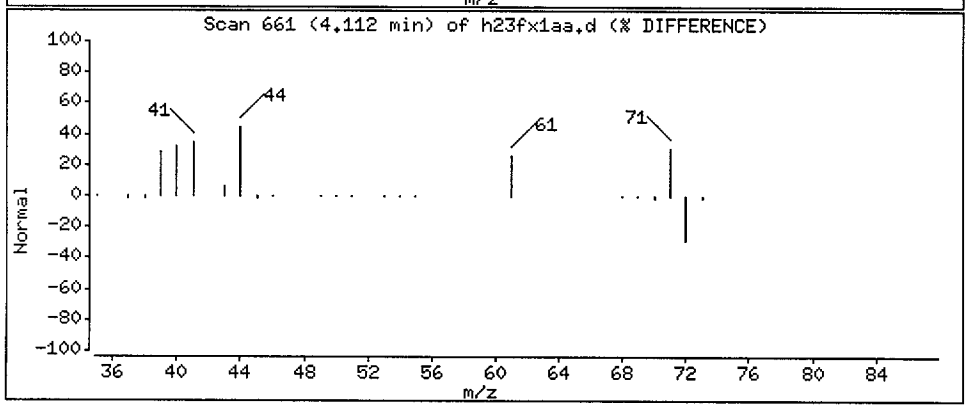












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

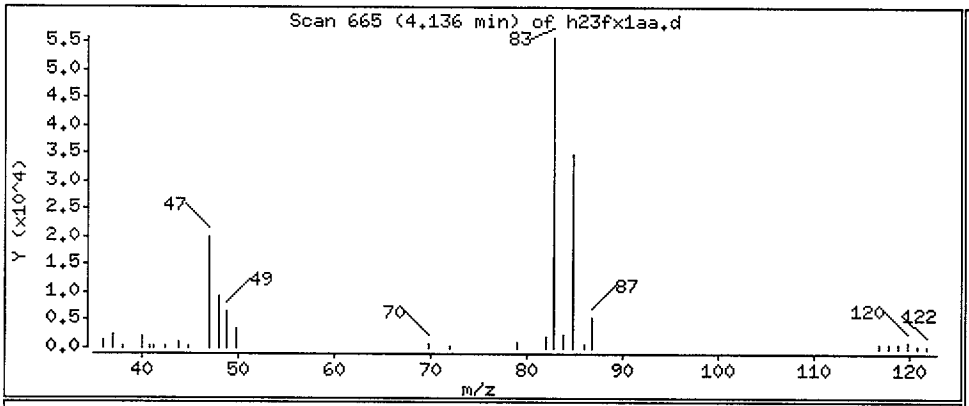
Operator: 22980

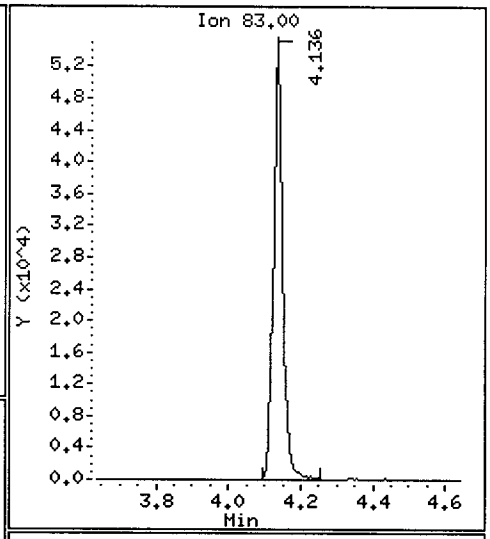
Column phase: J+W 624

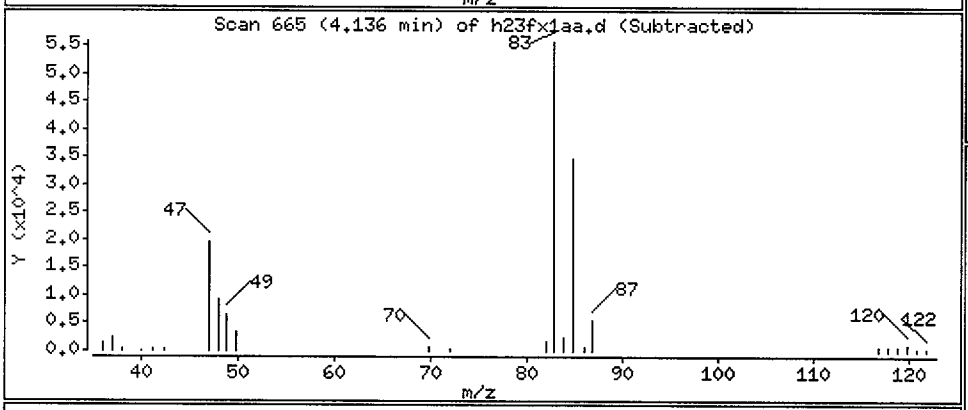
Column diameter: 0.18

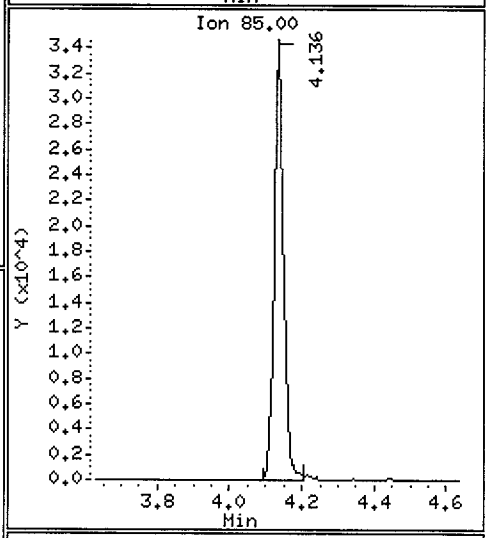
39 Chloroform (ccc)

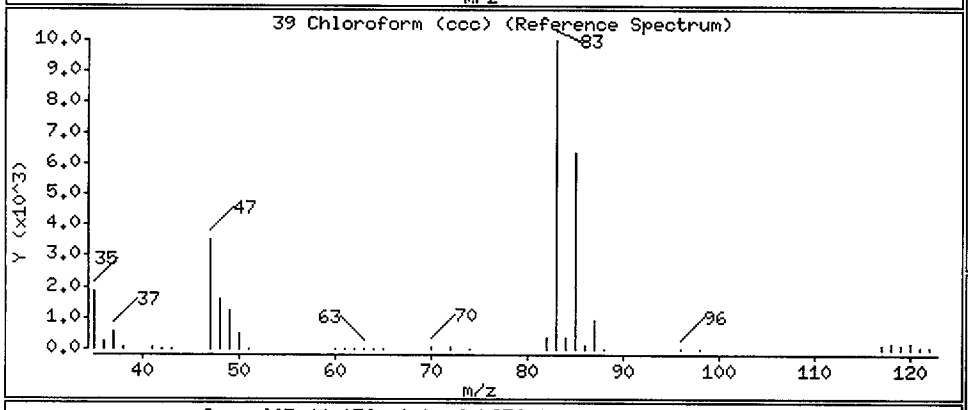
Concentration: 0.086182 ug

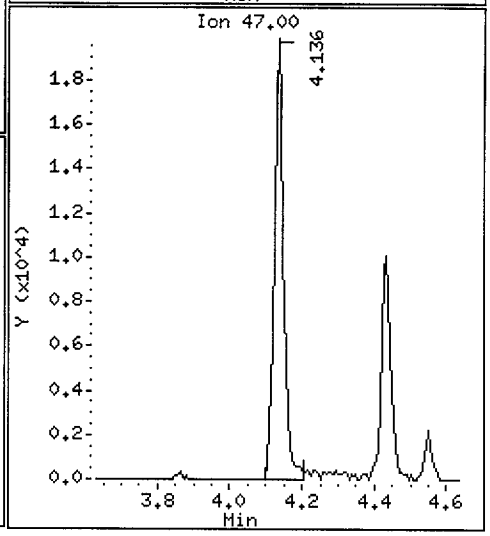


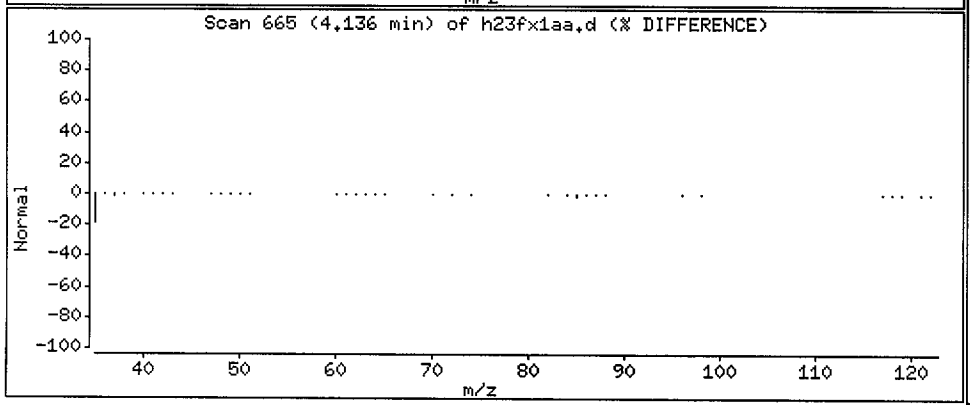












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

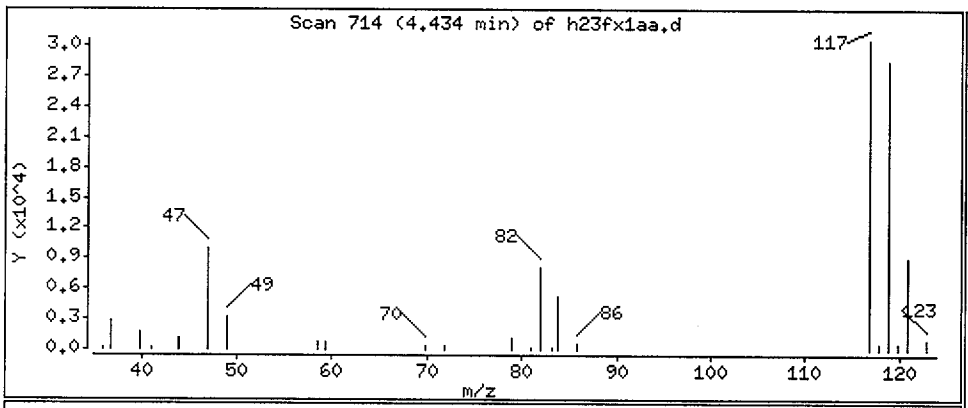
Operator: 22980

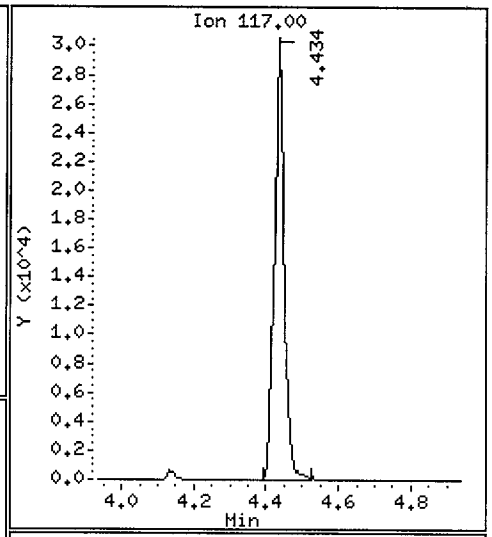
Column phase: J+W 624

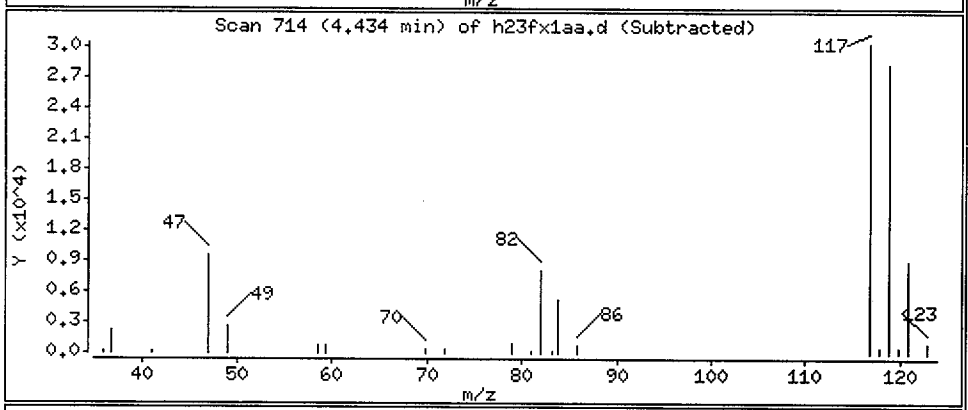
Column diameter: 0.18

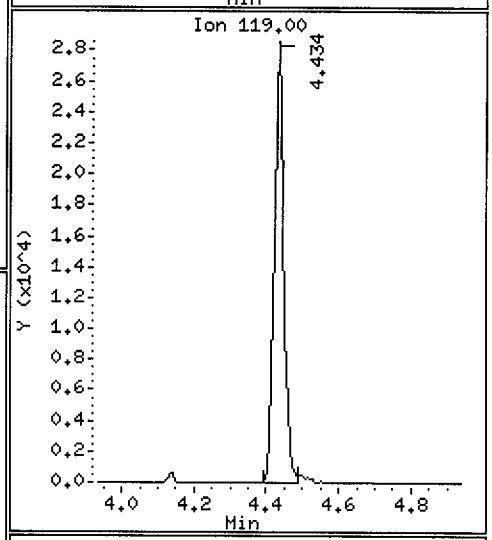
41 Carbon Tetrachloride

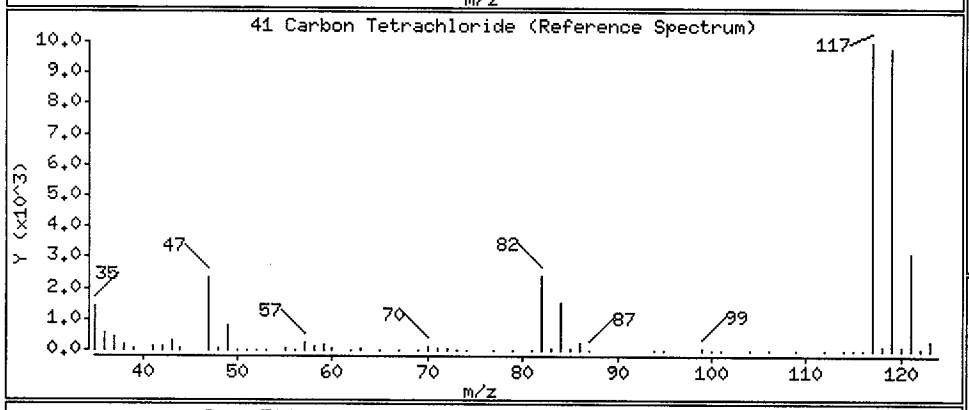
Concentration: 0.053186 ug

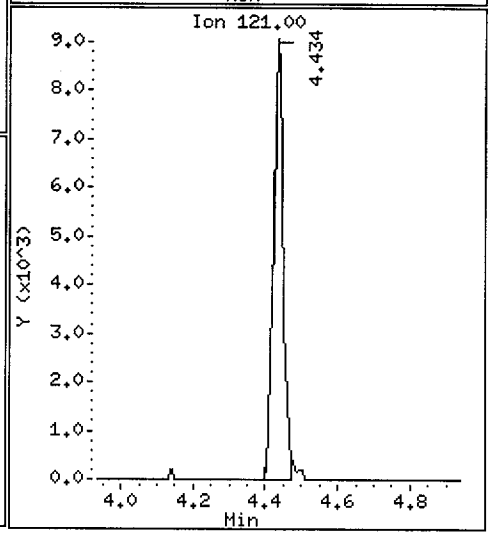


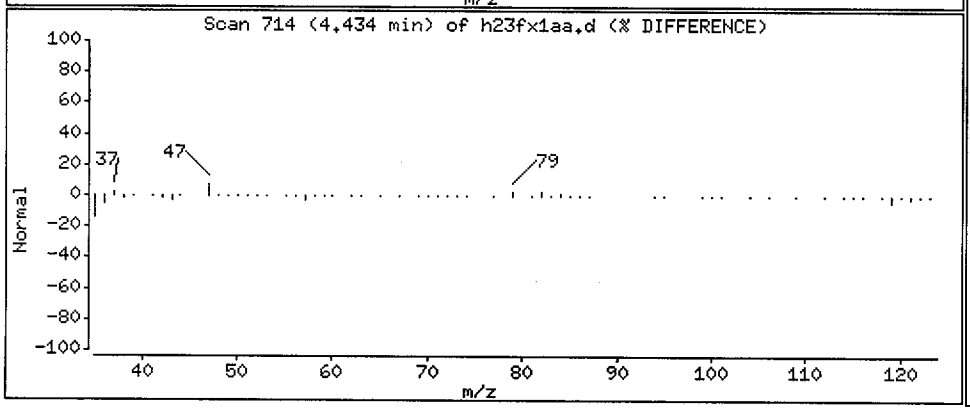












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

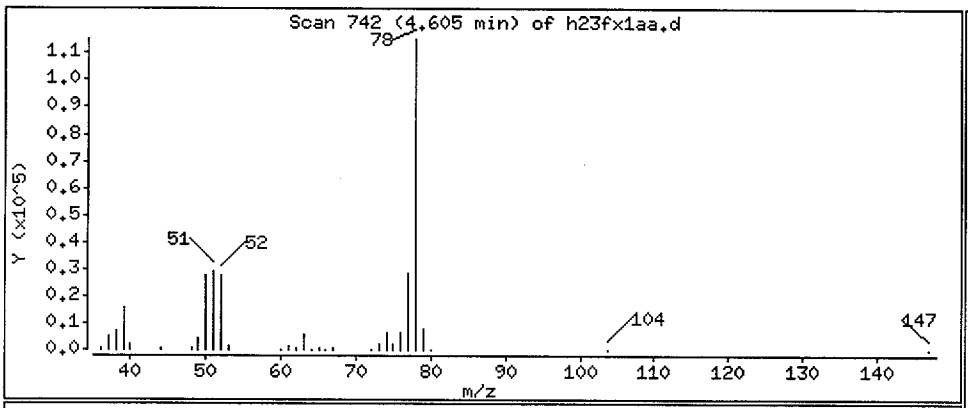
Operator: 22980

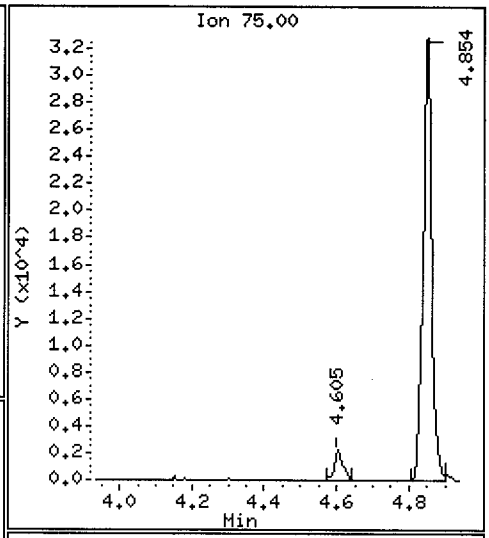
Column phase: J+W 624

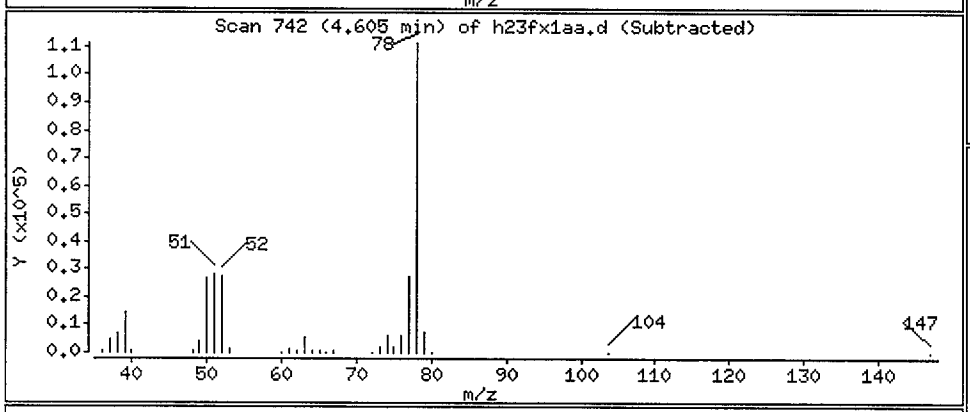
Column diameter: 0.18

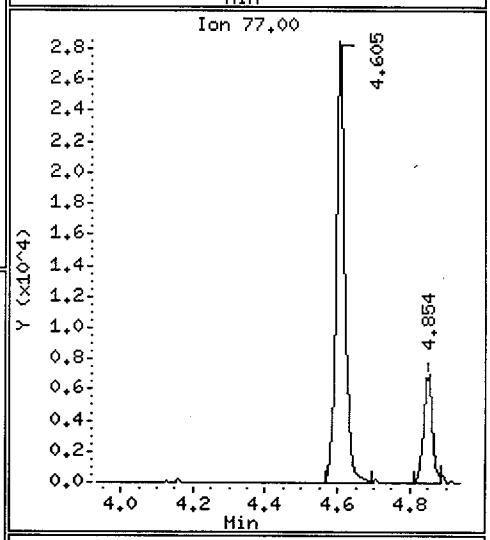
42 1,1-Dichloropropene

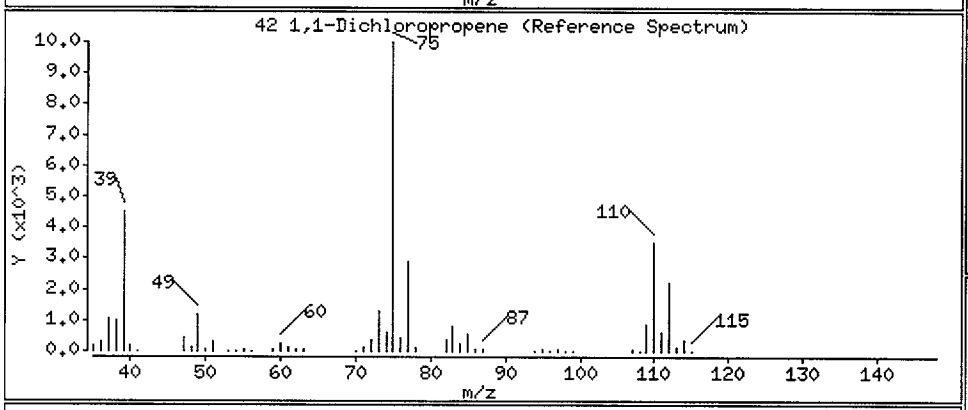
Concentration: 0.0032306 ug

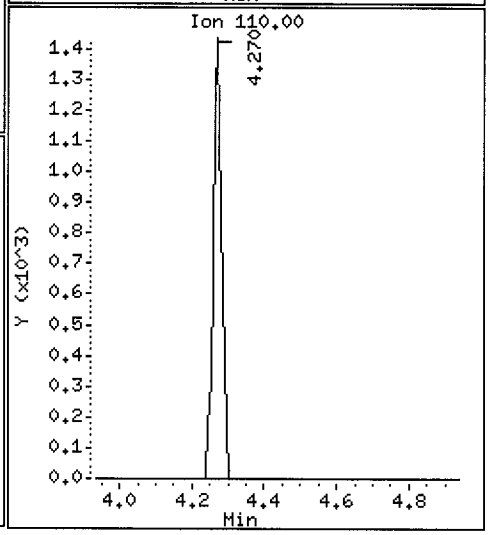


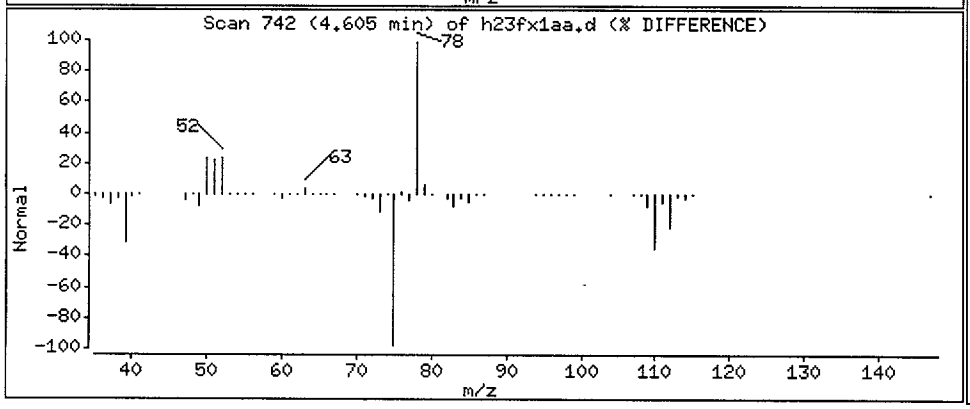












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

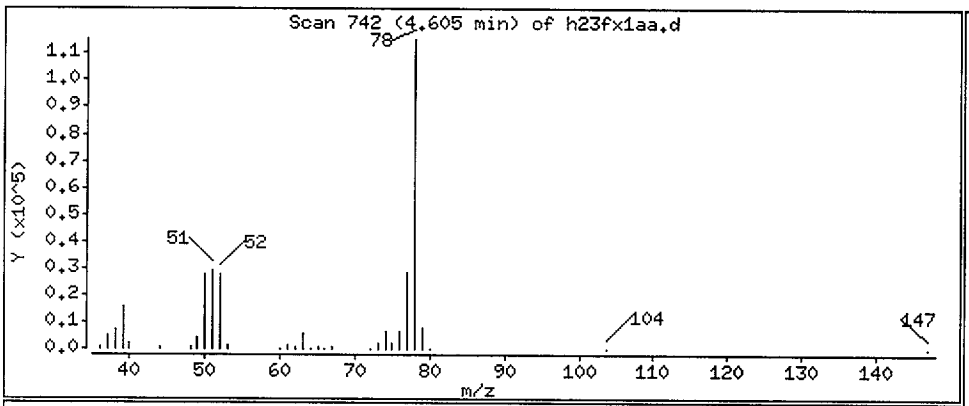
Operator: 22980

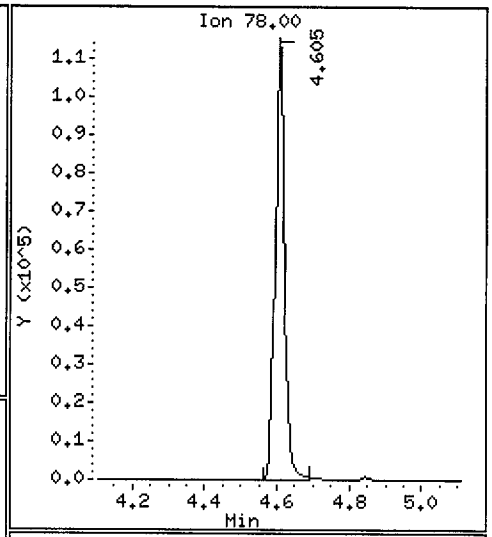
Column phase: J+W 624

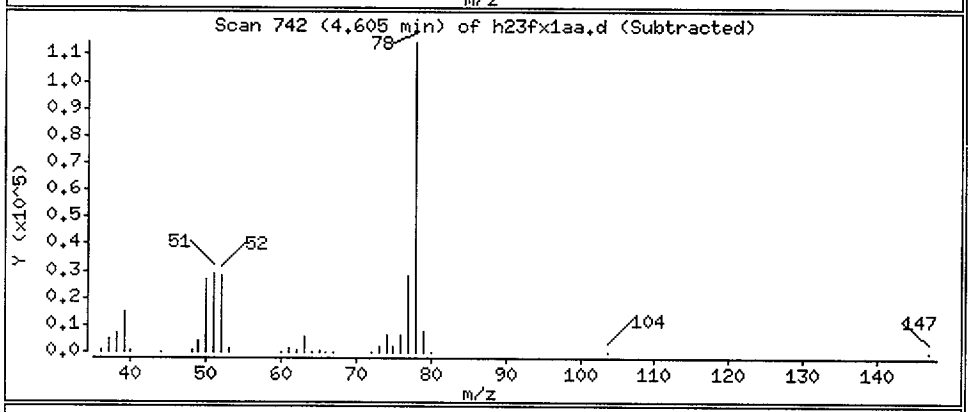
Column diameter: 0.18

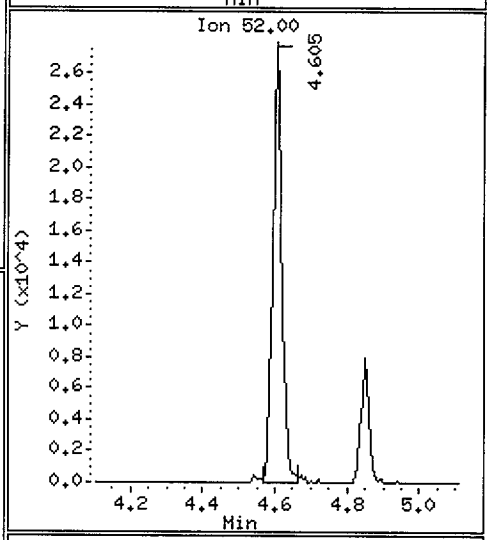
43 Benzene

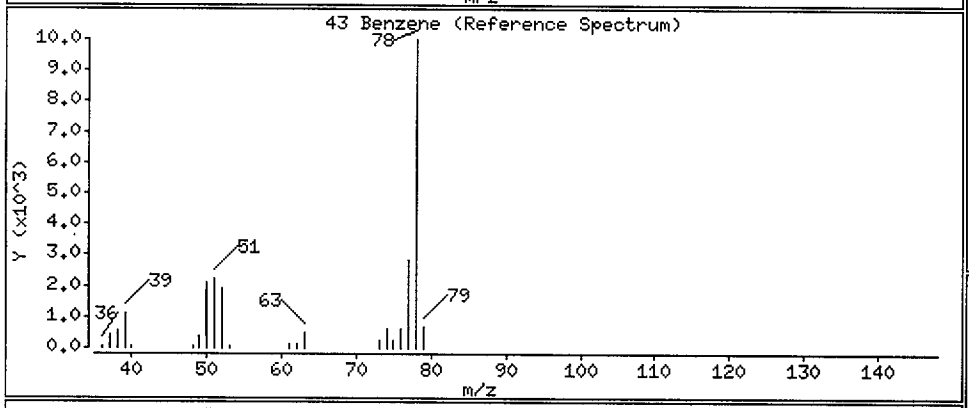
Concentration: 0.068796 ug

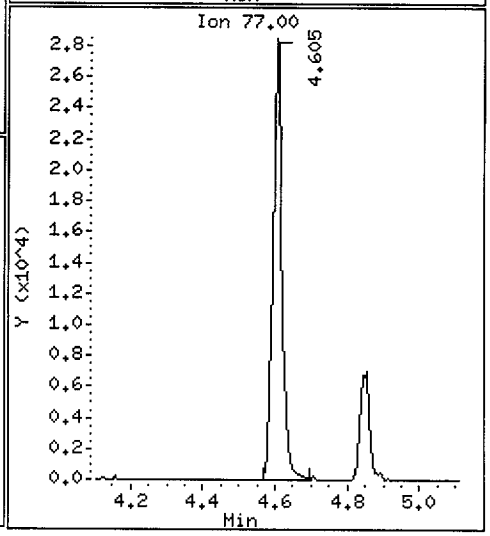


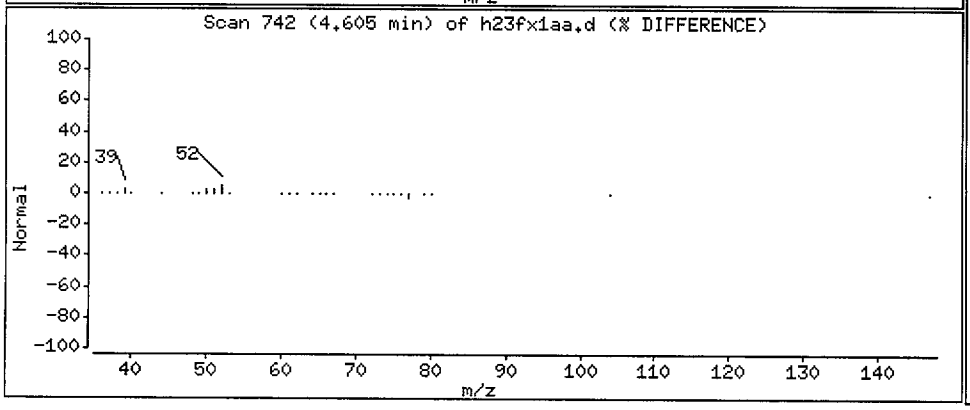












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

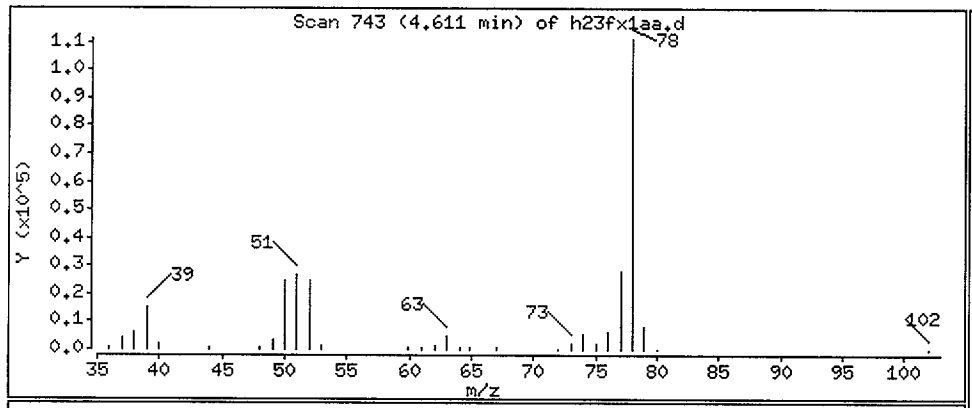
Operator: 22980

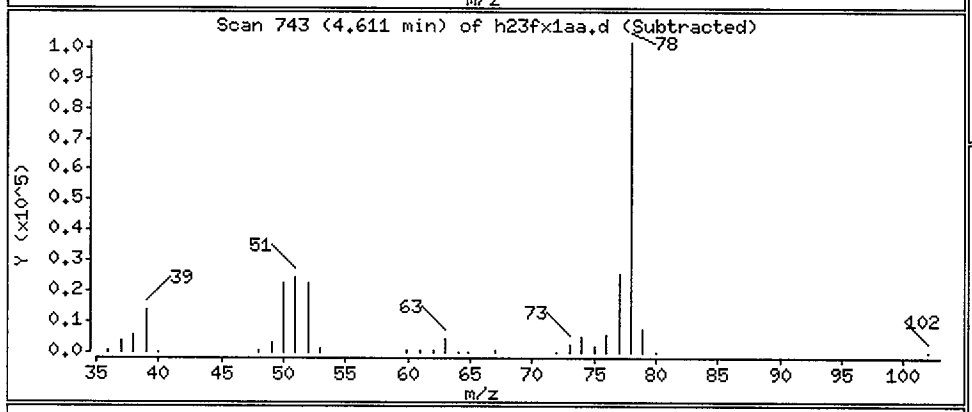
Column phase: J+W 624

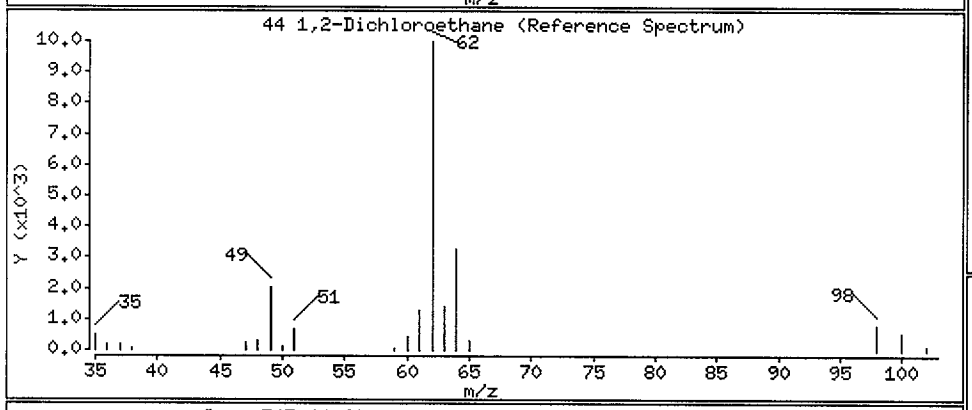
Column diameter: 0.18

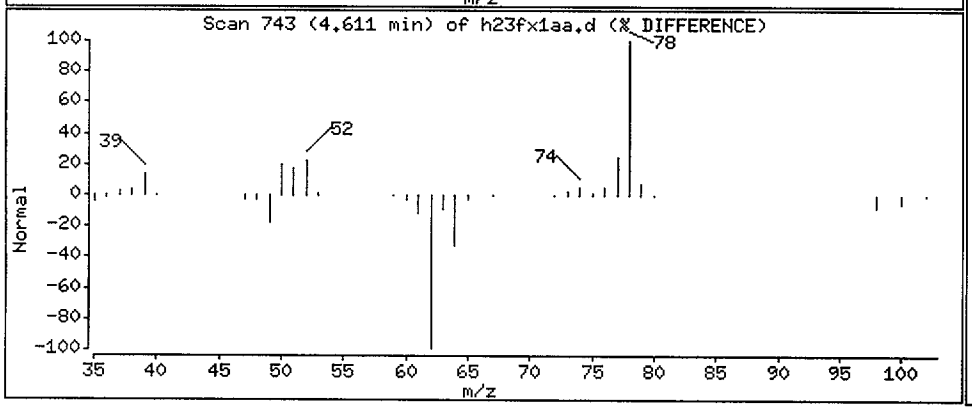
44 1,2-Dichloroethane

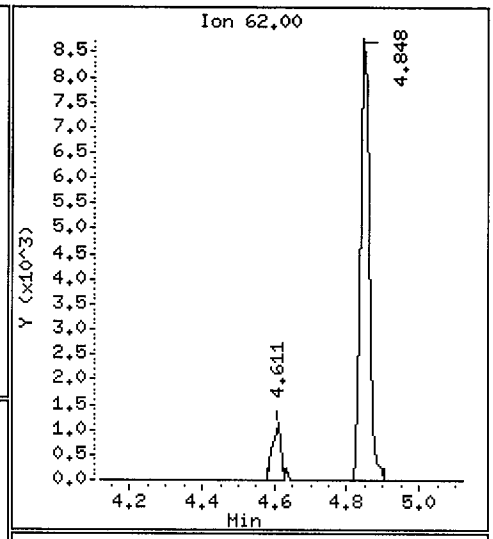
Concentration: 0.0034900 ug

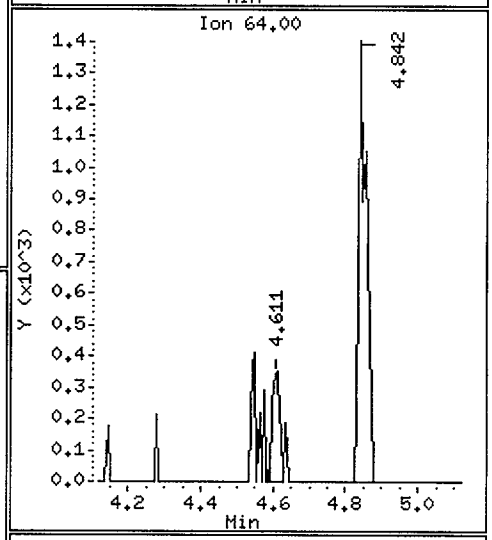


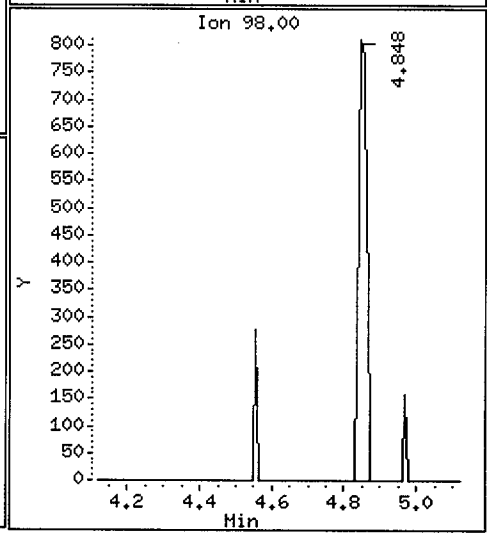












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

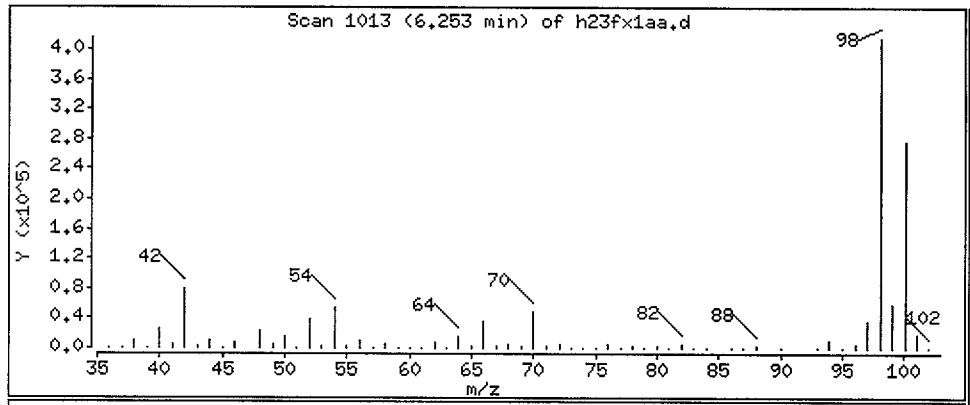
Operator: 22980

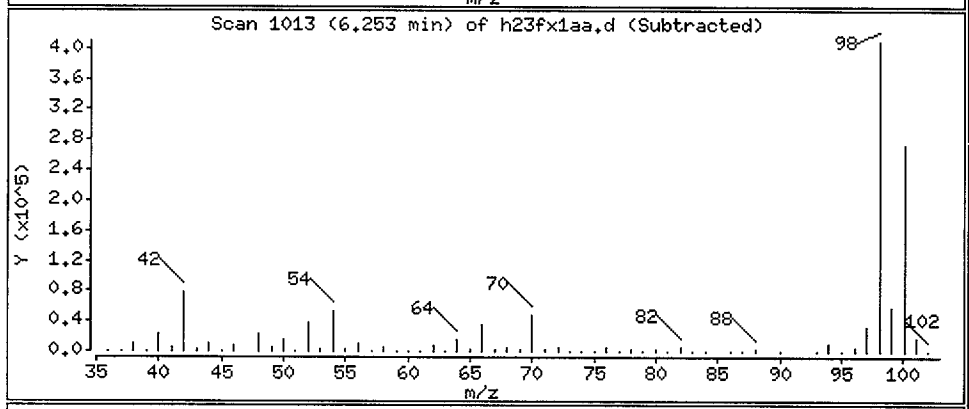
Column phase: J+W 624

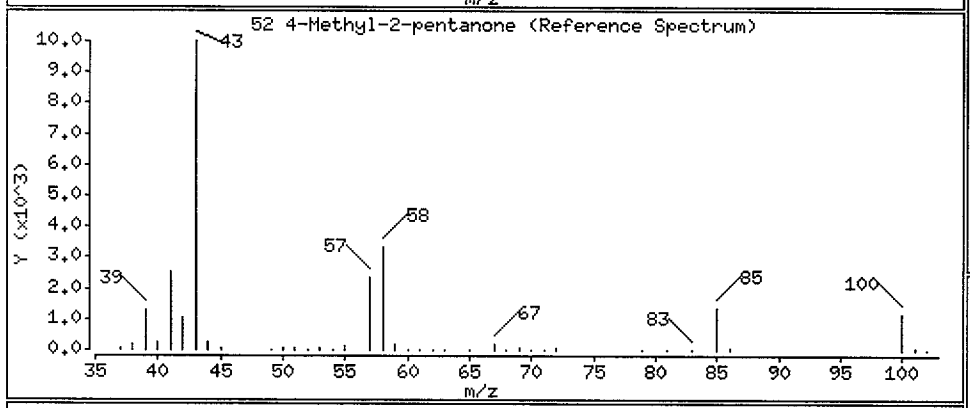
Column diameter: 0.18

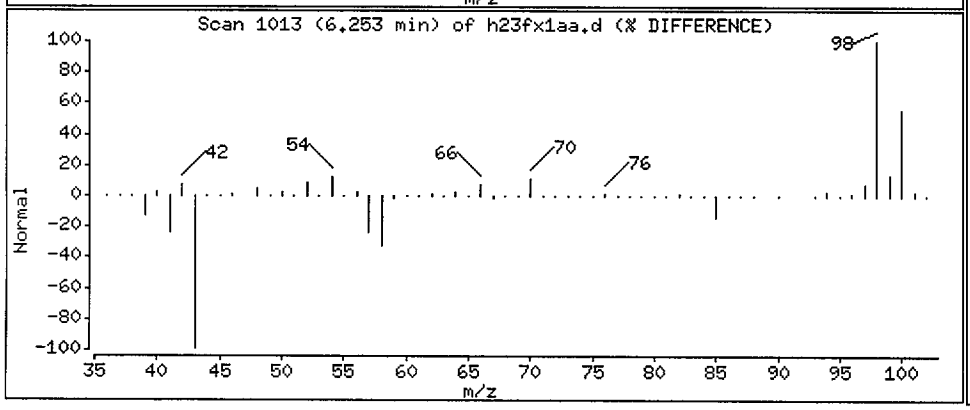
52 4-Methyl-2-pentanone

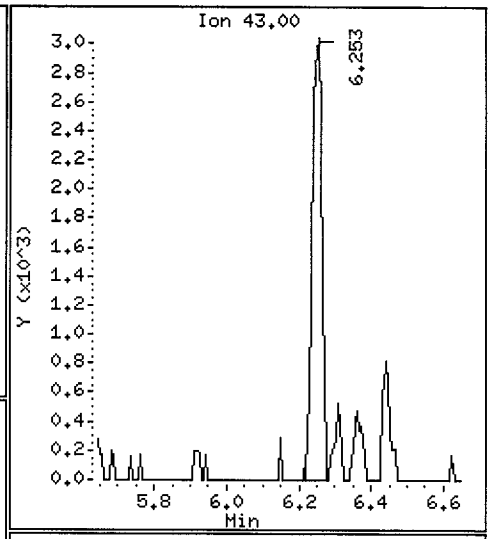
Concentration: 0.034651 ug

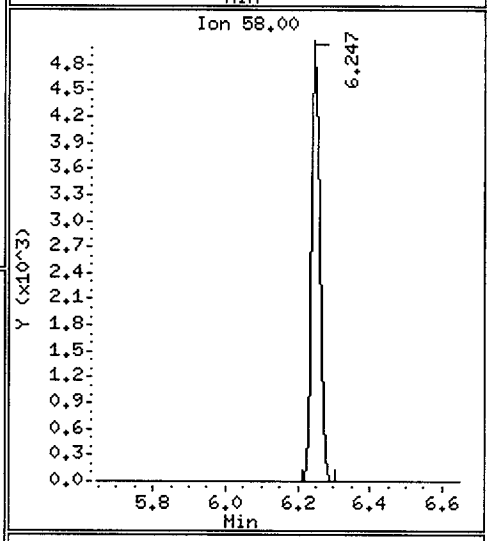


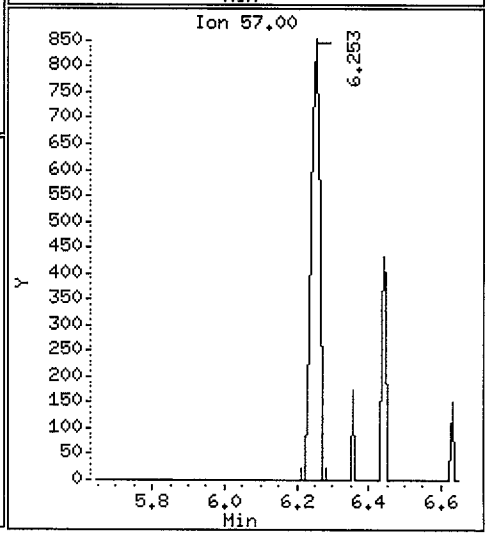












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

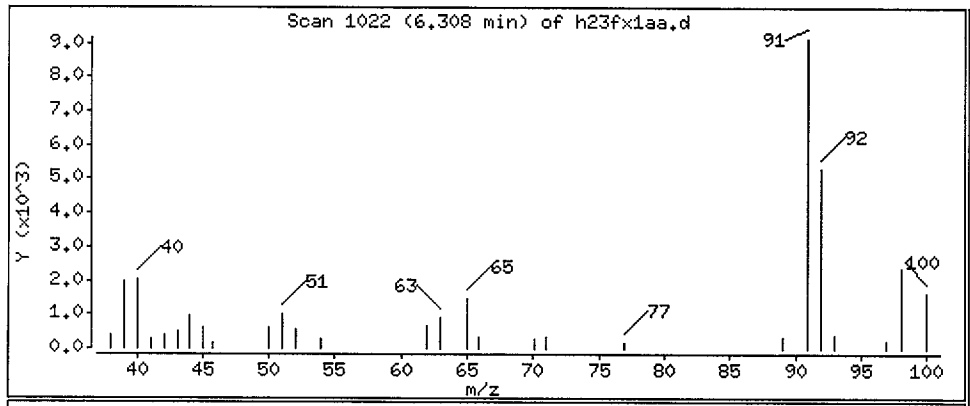
Operator: 22980

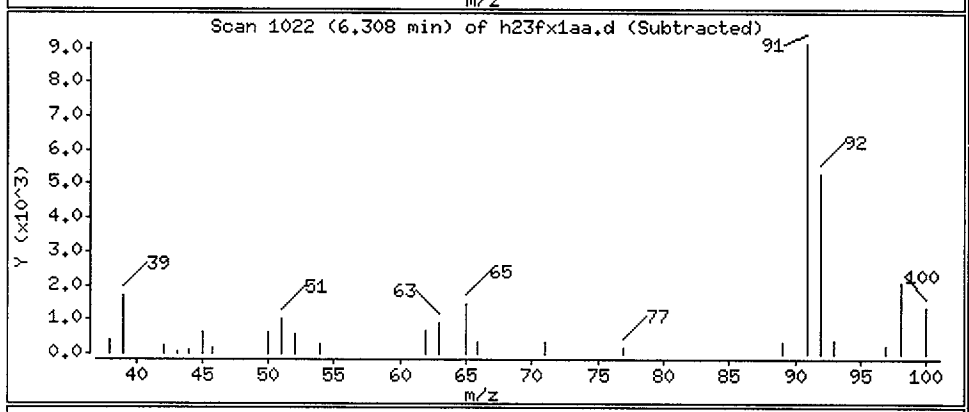
Column phase: J+W 624

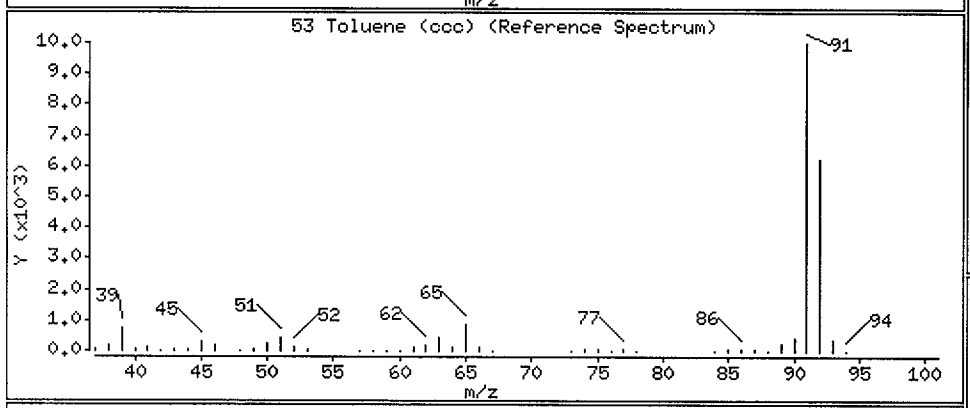
Column diameter: 0.18

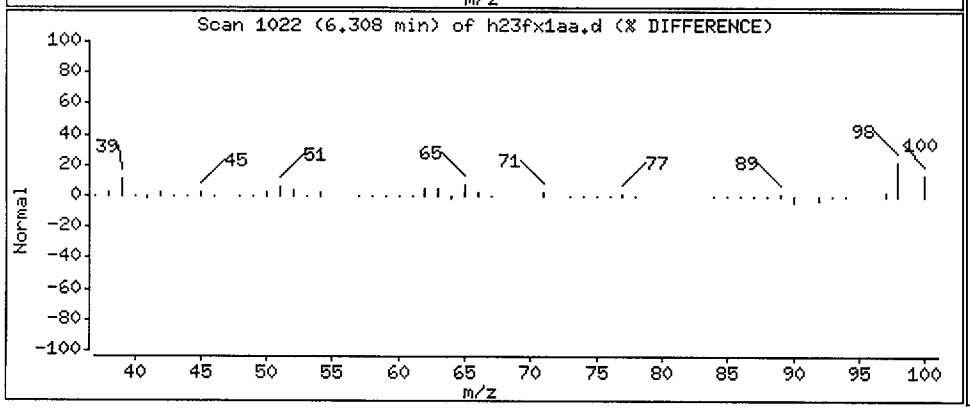
53 Toluene (ccc)

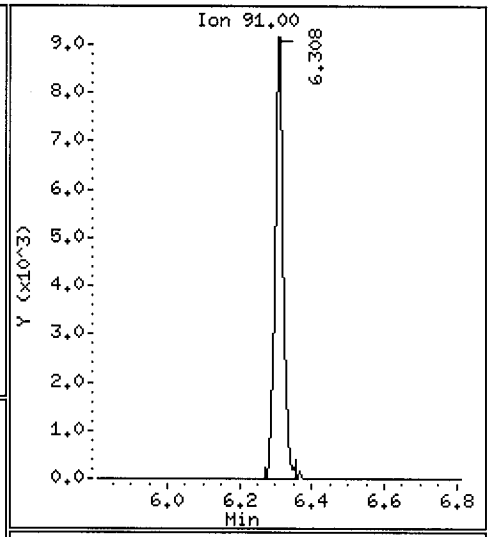
Concentration: 0.0034174 ug

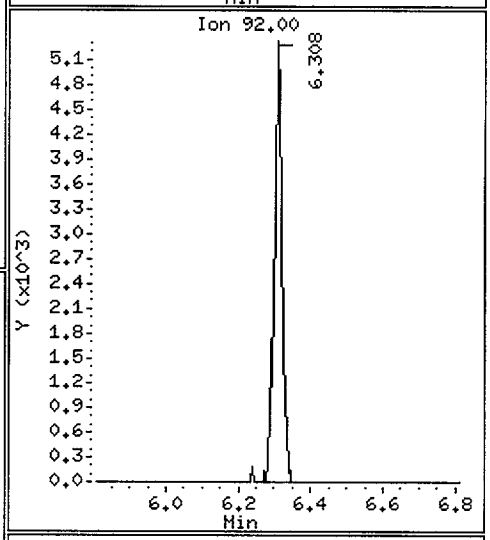


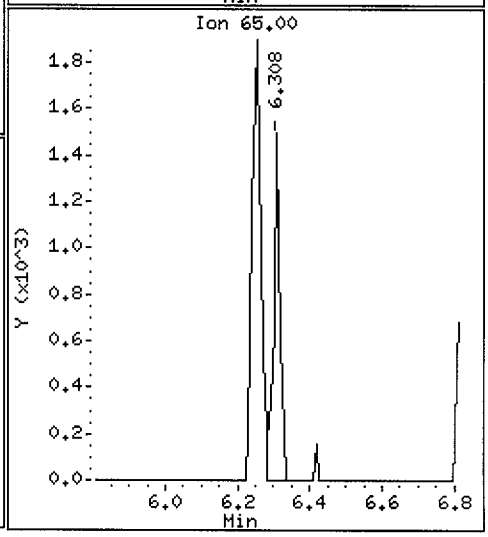












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

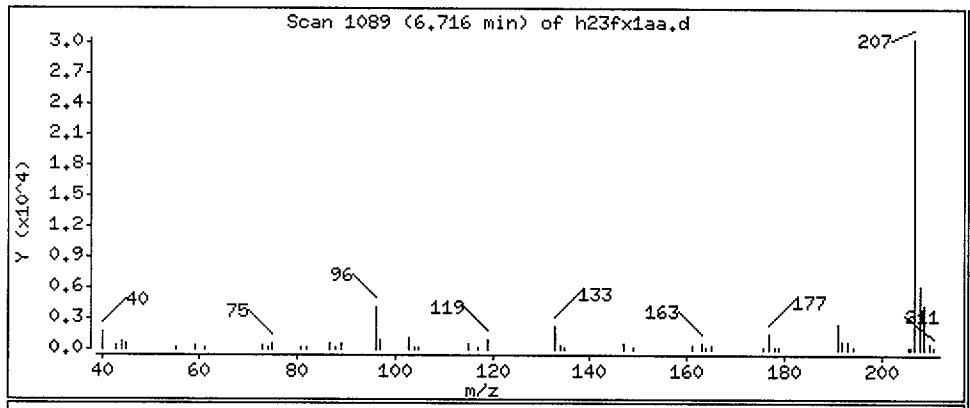
Operator: 22980

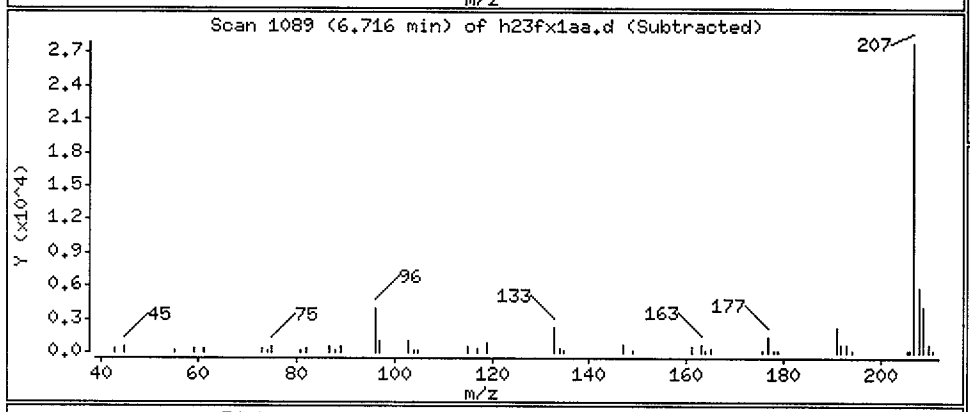
Column phase: J+W 624

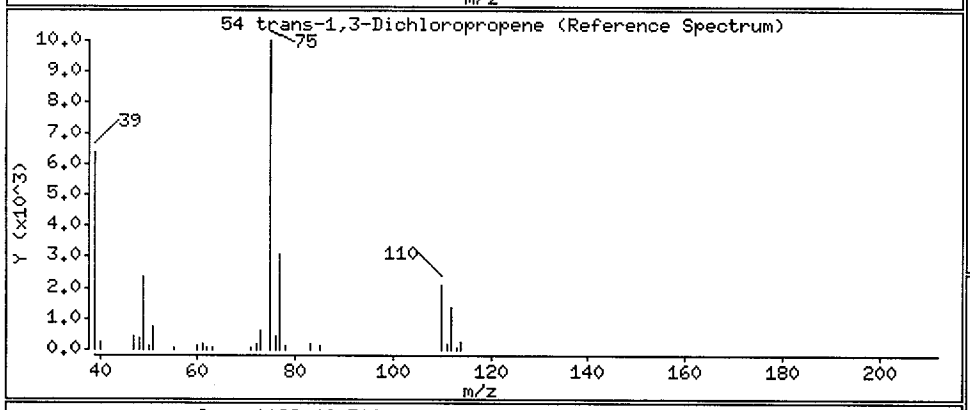
Column diameter: 0.18

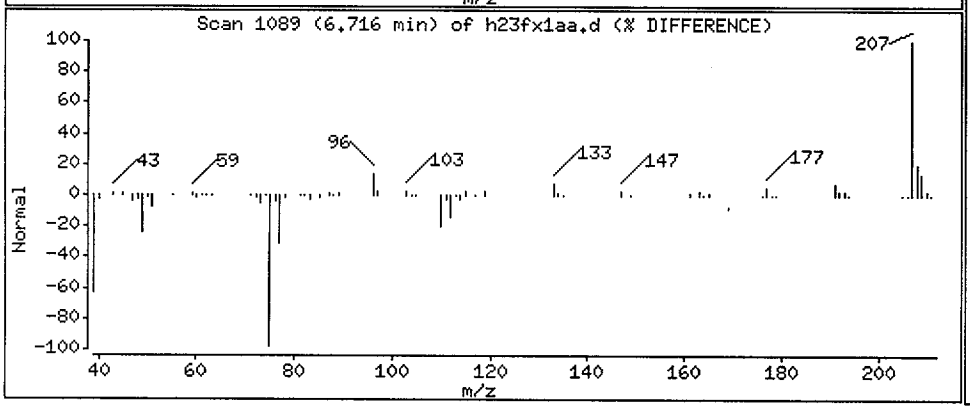
54 trans-1,3-Dichloropropene

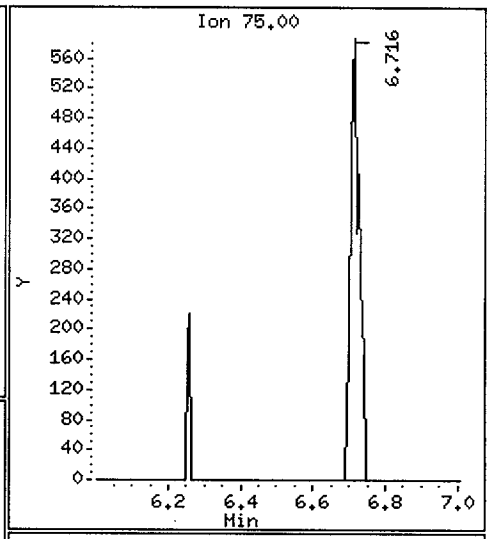
Concentration: 0.0013788 ug

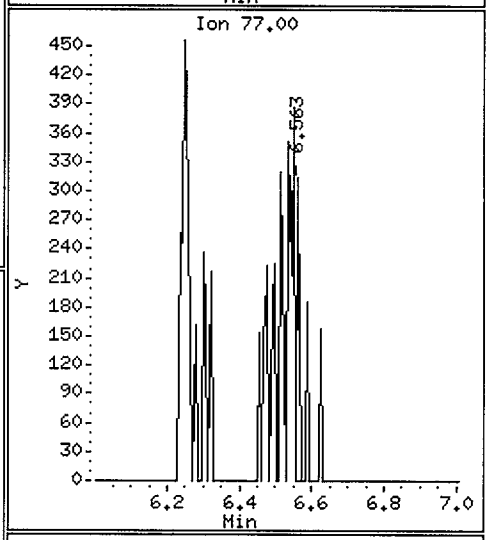


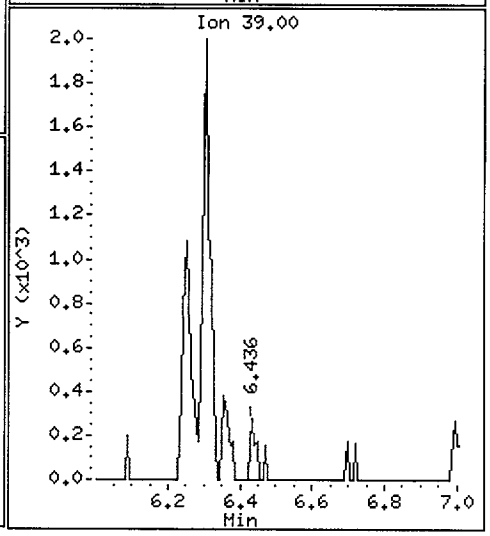












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

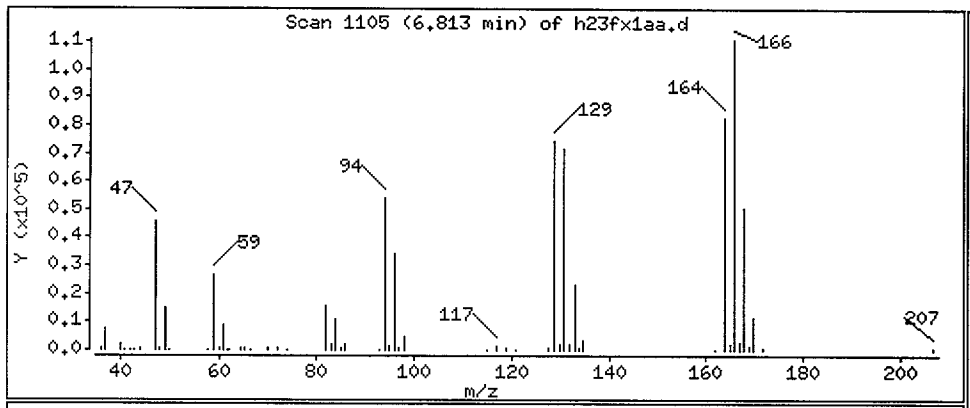
Operator: 22980

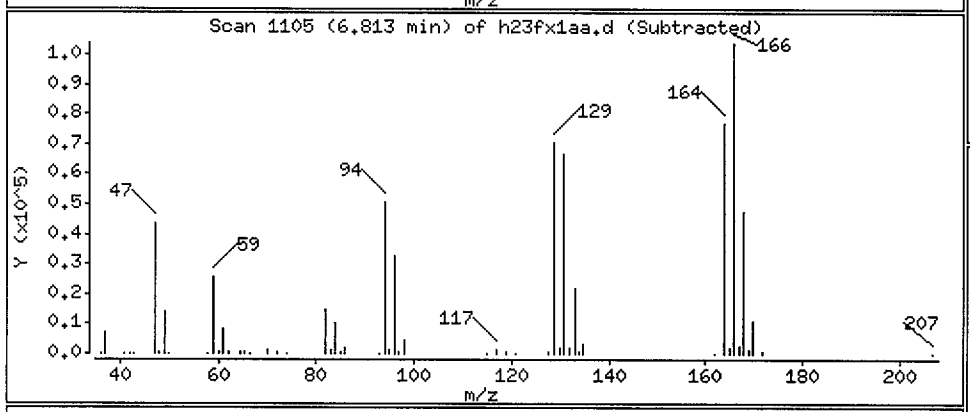
Column phase: J+W 624

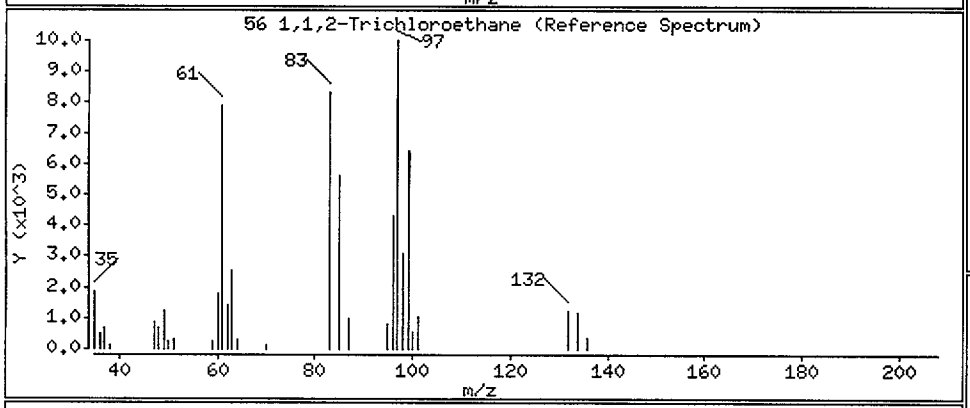
Column diameter: 0.18

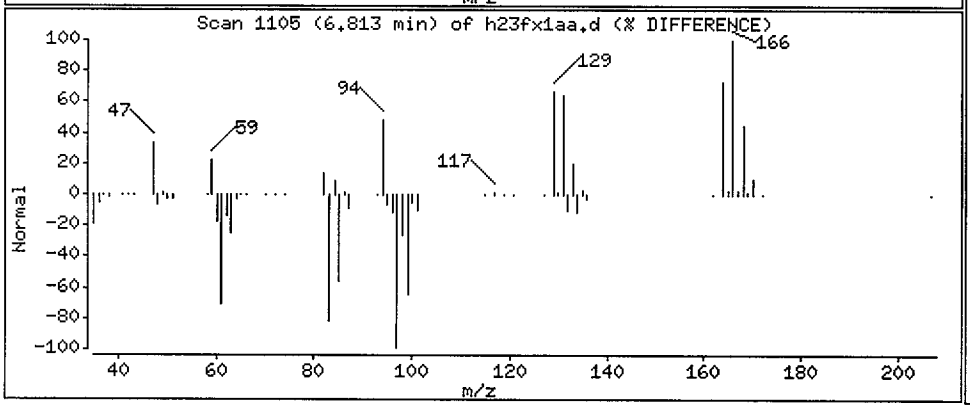
56 1,1,2-Trichloroethane

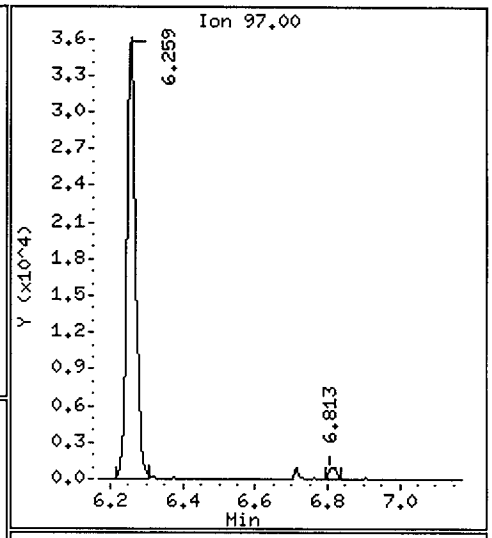
Concentration: 0.0037220 ug

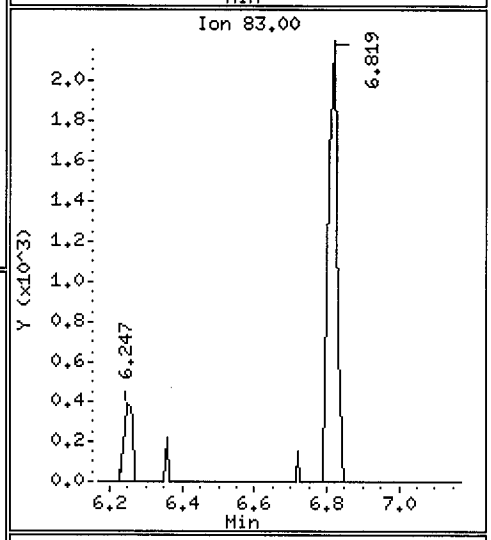


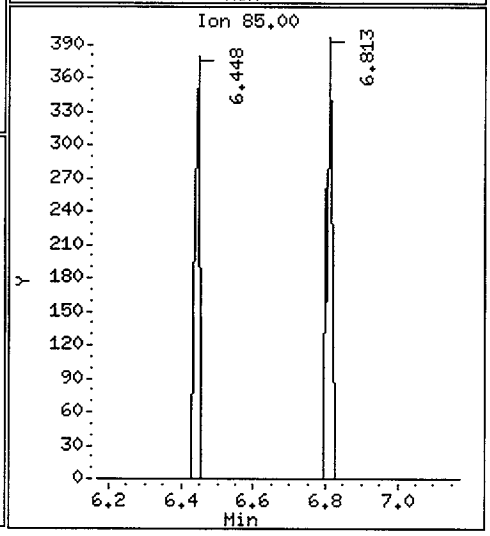












Data File: /chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23FX1AA,1,0,,,

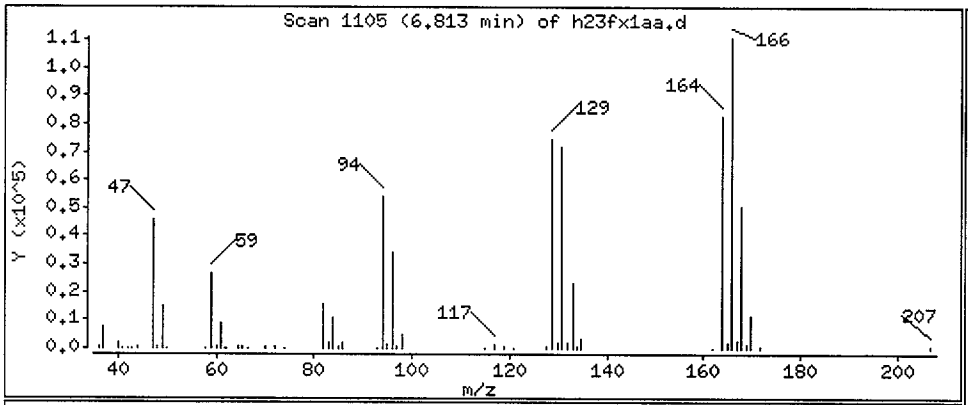
Operator: 22980

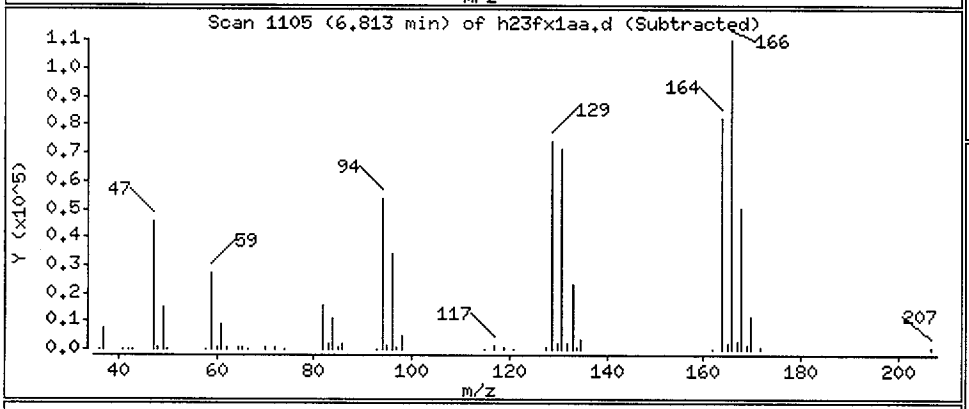
Column phase: J+W 624

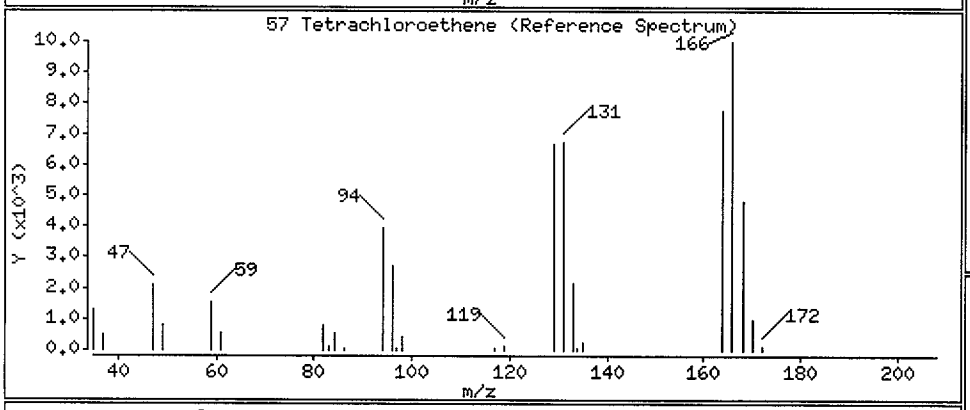
Column diameter: 0.18

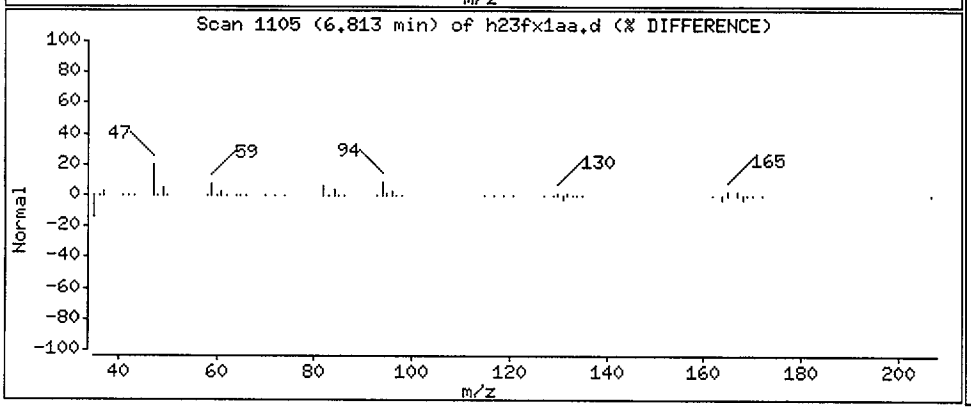
57 Tetrachloroethene

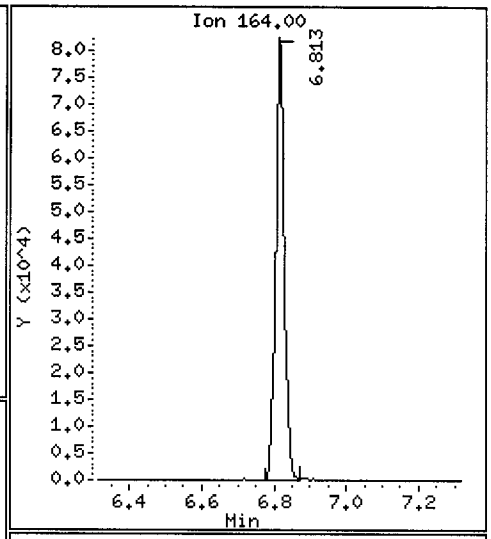
Concentration: 0.14745 ug

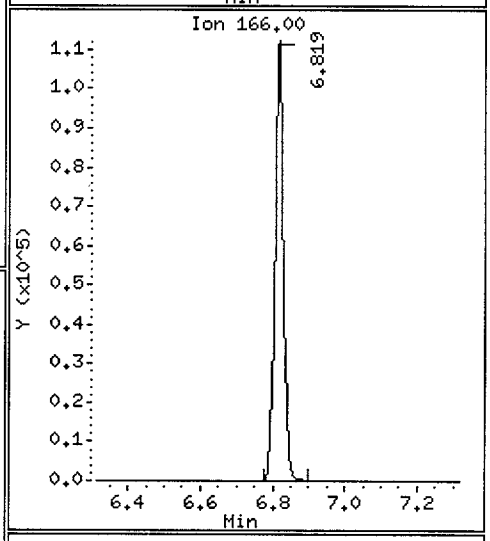


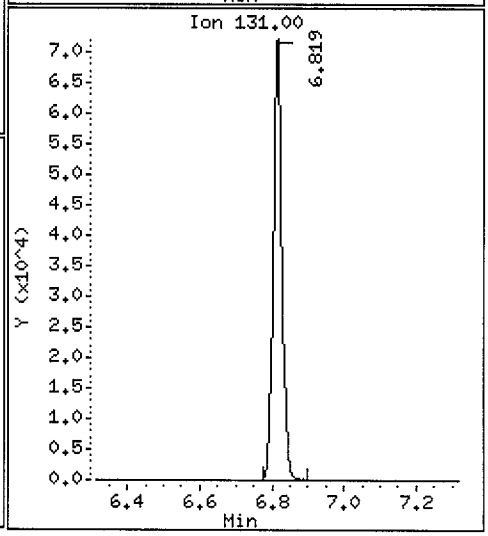












Data File: /var/chem/gcms/mx.i/X041206.b/h23fx1aa.d
Report Date: 17-Apr-2006 18:07

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X041206.b/h23fx1aa.d
Lab Smp Id: H23FX1AA Client Smp ID: REGION 9 AUDIT SAMP
Inj Date : 12-APR-2006 12:02
Operator : 22980 Inst ID: mx.i
Smp Info : H23FX1AA,1,0,,,
Misc Info : X041206,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 17-Apr-2006 17:12 tillerm 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	4.848	1031377	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide Air					CAS #: 124-38-9		
1.015	1397734	13.5521153	0.33880	5	NIST02.1	77	1

JLT 4/17/06

Data File: /var/chem/gcms/mx.i/X041206.b/h23fx1aa.d

Date : 12-APR-2006 12:02

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

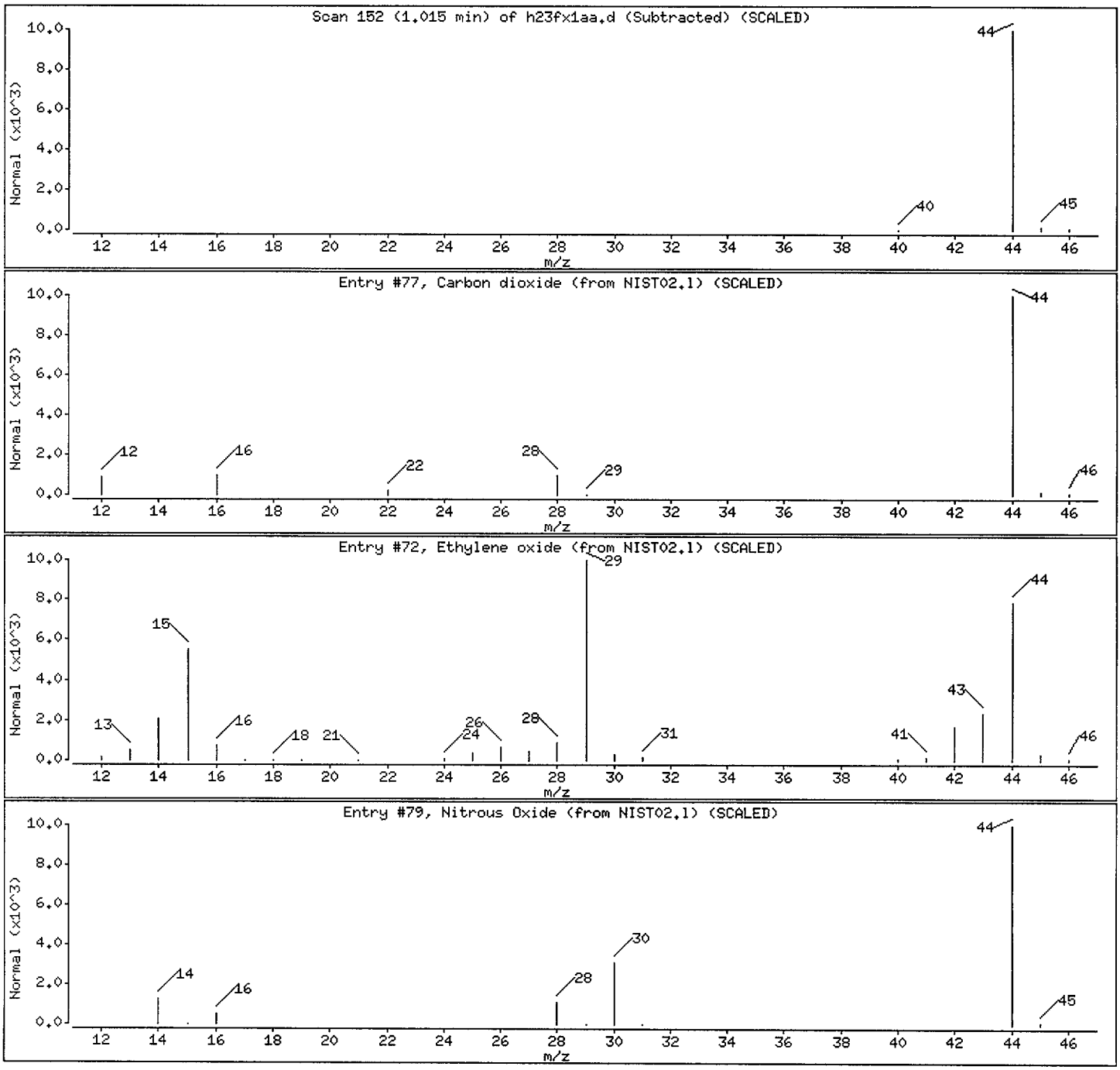
Sample Info: H23FX1AA,1,0,,,

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
Ethylene oxide	75-21-8	NIST02.1	72	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST02.1	79	3	N2O	44



STL Knoxville - ACS

Client Sample ID: REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #...: H6D120117-003 **Work Order #...:** H23F01AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.17 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.068**	**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	**0.018**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.052**	**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	**0.089**	**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: REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #...: H6D120117-003 **Work Order #...:** H23F01AA **Matrix.....:** AA

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	**0.12**	**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	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.054 J,B**	**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	95	(50 - 134)
1,2-Dichloroethane-d4	103	(50 - 134)
Toluene-d8	80	(57 - 127)
Bromofluorobenzene	74	(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

REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #: H6D120117-003 **Work Order #:** H23F01AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d
Report Date: 12-Apr-2006 11:52

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X041206.b/h23f01aa.d
Lab Smp Id: H23F01AA Client Smp ID: REGION 9 AUDIT SAMP
Inj Date : 12-APR-2006 11:36
Operator : 22980 Inst ID: mx.i
Smp Info : H23F01AA,1,0,,,
Misc Info : X041206,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 12-Apr-2006 11:24 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.848	4.851	(1.000)	748122	10.0000	
* 2 Chlorobenzene-d5	119	7.579	7.582	(1.000)	187676	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.737	10.740	(1.000)	261817	10.0000	
$ 4 Dibromofluoromethane	113	4.270	4.273	(0.881)	120478	9.47184	0.23680
$ 5 1,2-Dichloroethane-d4	65	4.550	4.553	(0.938)	102178	10.3057	0.25764
$ 6 Toluene-d8	98	6.247	6.250	(0.824)	732678	7.97371	0.19934
$ 7 4-Bromofluorobenzene	95	8.869	8.872	(0.826)	229196	7.38325	0.18458
11 Chloromethane (spcc)	50	1.252	1.255	(0.258)	1985	0.05696	0.0014240
14 Bromomethane	94	1.581	1.584	(0.326)	1212	~~0.11504~~	~~0.0028759~~
21 Acetone	43	2.378	2.381	(0.490)	7075	6.67790	0.16695
23 Carbon Disulfide	76	2.487	2.496	(0.513)	41361	0.72545	0.018136
26 Methylene Chloride	84	2.743	2.746	(0.566)	55488	4.79730	0.11993
33 *Vinyl Acetate	86	3.242	3.421	(0.669)	1784	~~2.09732~~	~~0.052433~~
36 2-Butanone	43	3.880	3.871	(0.800)	1978	~~1.19695~~	~~0.029924~~
38 *THF	42	4.118	4.109	(0.849)	2188	2.16042	0.054010
39 Chloroform (ccc)	83	4.136	4.139	(0.853)	100744	3.54306	0.088576
41 Carbon Tetrachloride	117	4.434	4.437	(0.915)	56394	2.09991	0.052498
42 1,1-Dichloropropene	75	4.604	4.437	(0.950)	3414	~~0.11529~~	~~0.0028823~~
43 Benzene	78	4.604	4.607	(0.950)	206476	2.72516	0.068129
44 1,2-Dichloroethane	62	4.610	4.620	(0.951)	2073	~~0.16260~~	~~0.0040651~~

MT 4/17/06

Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d
Report Date: 12-Apr-2006 11:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug)
52 4-Methyl-2-pentanone	43	6.247	6.147	(1.289)	5880	~~1.48551~~	~~0.037138~~
53 Toluene (ccc)	91	6.308	6.311	(0.832)	13969	0.12708	0.0031769
54 trans-1,3-Dichloropropene	75	6.715	6.505	(0.886)	1564	0~~.00119~~	~~0.0020298~~
56 1,1,2-Trichloroethane	97	6.813	6.670	(0.899)	1192	~~0.13732~~	~~0.0034329~~
57 Tetrachloroethene	164	6.813	6.816	(0.899)	136180	5.76527	0.14413
59 2-Hexanone	43	6.442	6.901	(0.850)	1796	0~~.48904~~	~~0.012226~~

MT
4/17/06

Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d
Report Date: 12-Apr-2006 11:52

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h23f01aa.d
Lab Smp Id: H23F01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,focus.sub

Calibration Date: 12-APR-2006
Calibration Time: 08:38
Client Smp ID: REGION 9 AUDIT SAMP
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	977885	488942	1955770	748122	-23.50
2 Chlorobenzene-d5	201795	100898	403590	187676	-7.00
3 1,4 Dichlorobenze	245212	122606	490424	261817	6.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	-0.06
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.04
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.74	-0.03

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

Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d
Report Date: 12-Apr-2006 11:52

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: GAS
Lab Smp Id: H23F01AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,focus.sub

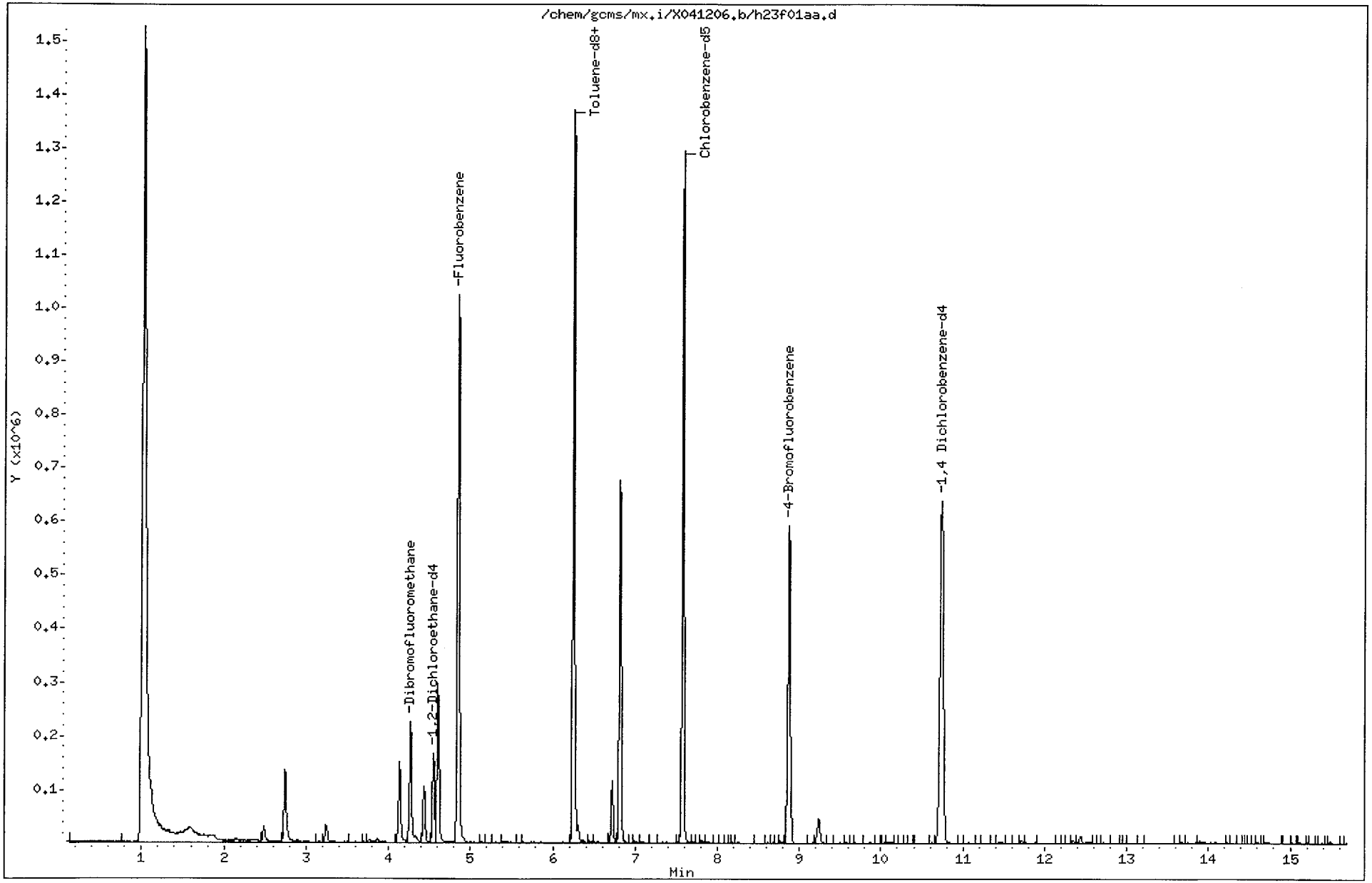
Client SDG: H6D120117
Fraction: VOA
Client Smp ID: REGION 9 AUDIT SAMP
Operator: 22980
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.23680	94.72	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25764	103.06	50-150
$ 6 Toluene-d8	0.25000	0.19934	79.74	50-150
$ 7 4-Bromofluorobenze	0.25000	0.18458	73.83	50-150

Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d
Date : 12-APR-2006 11:36
Client ID: REGION 9 AUDIT SAMP
Sample Info: H23F01AA,1,0,,,

Instrument: mx.i

Operator: 22980
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

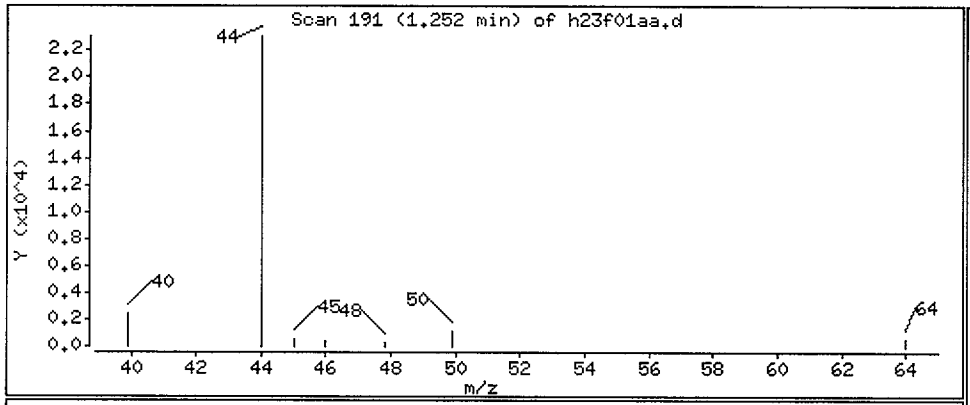
Operator: 22980

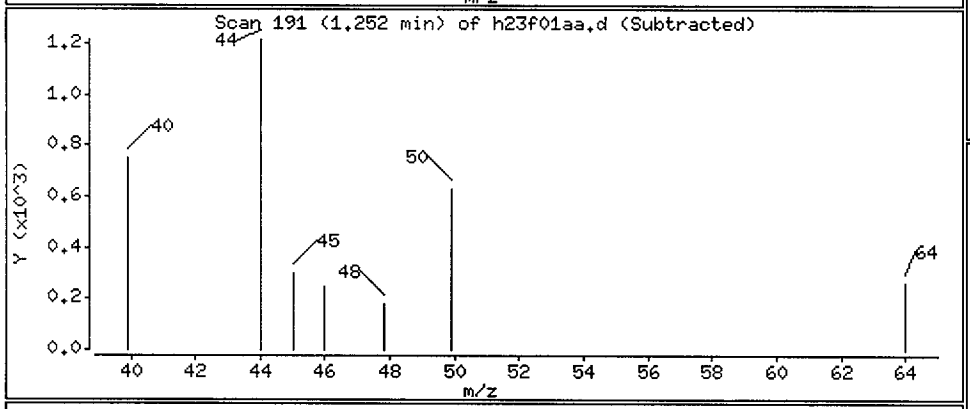
Column phase: J+W 624

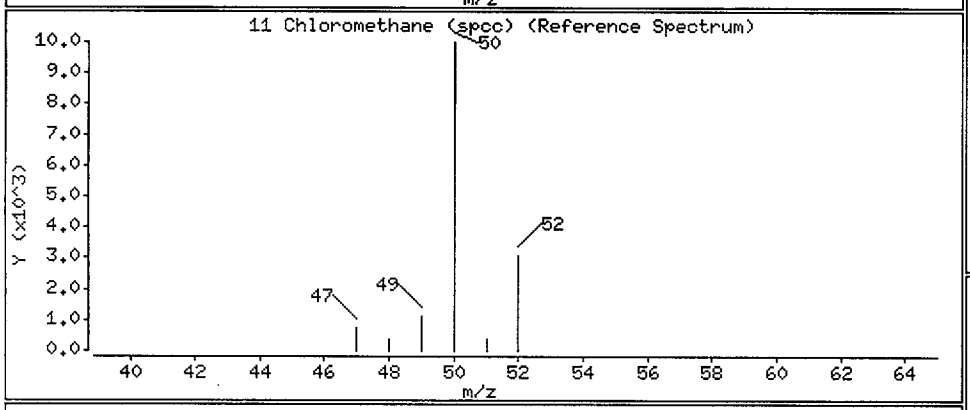
Column diameter: 0.18

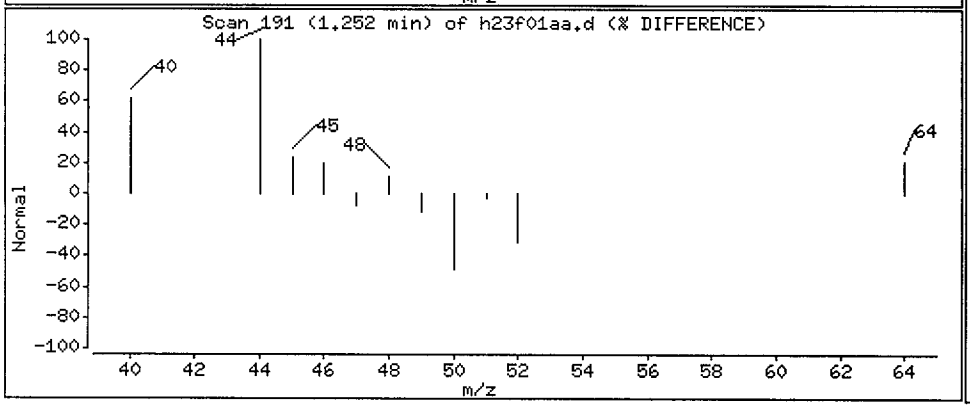
11 Chloromethane (spcc)

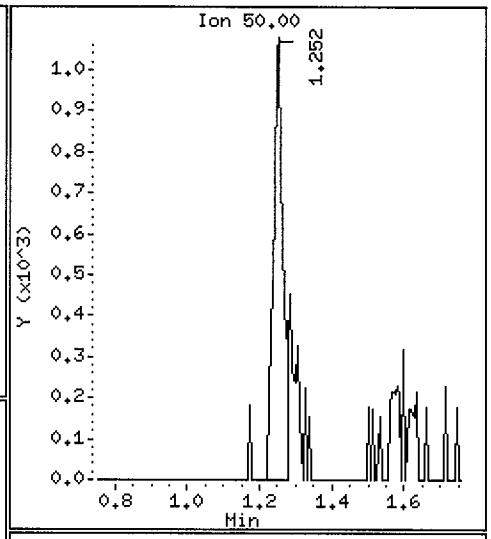
Concentration: 0.0014240 ug

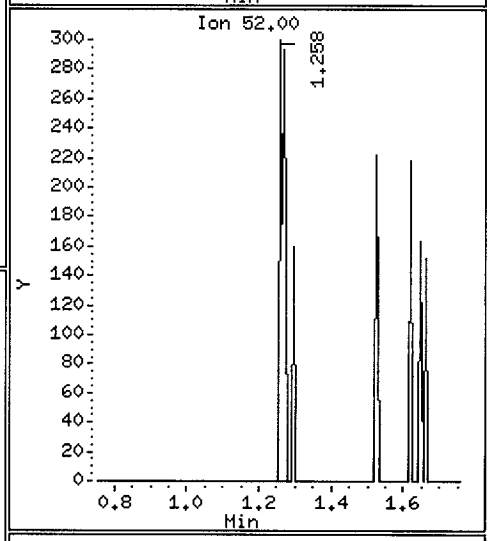


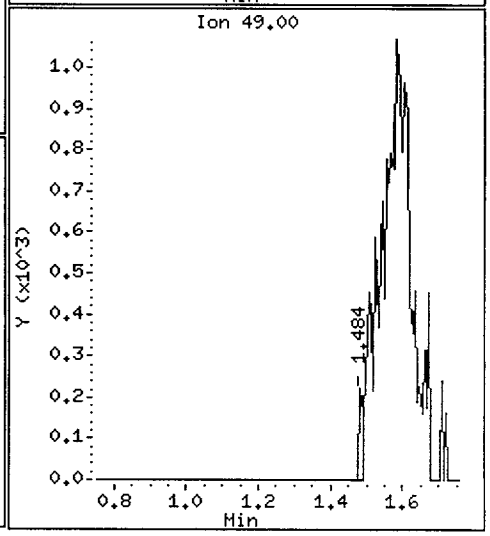












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

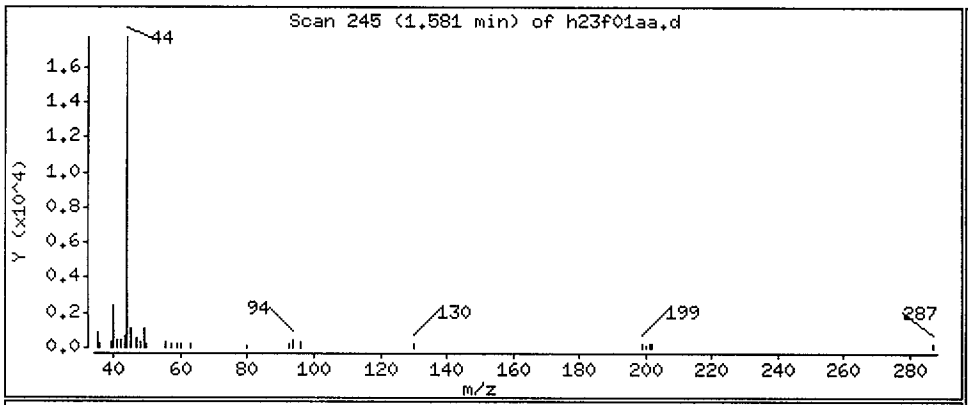
Operator: 22980

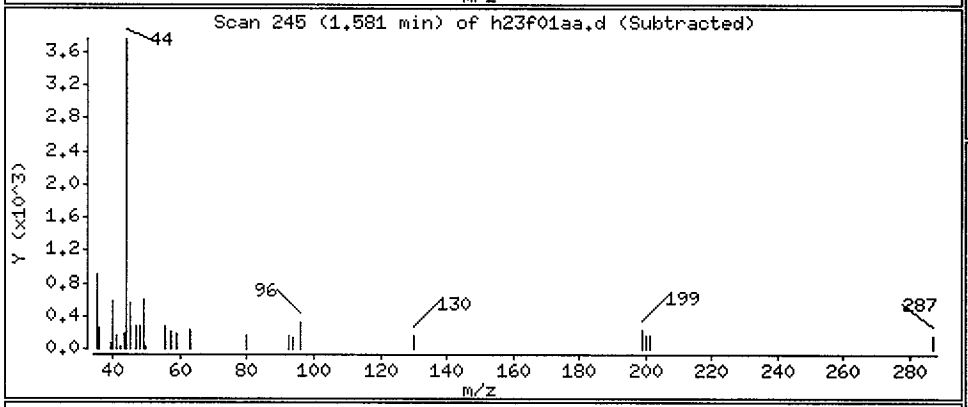
Column phase: J+W 624

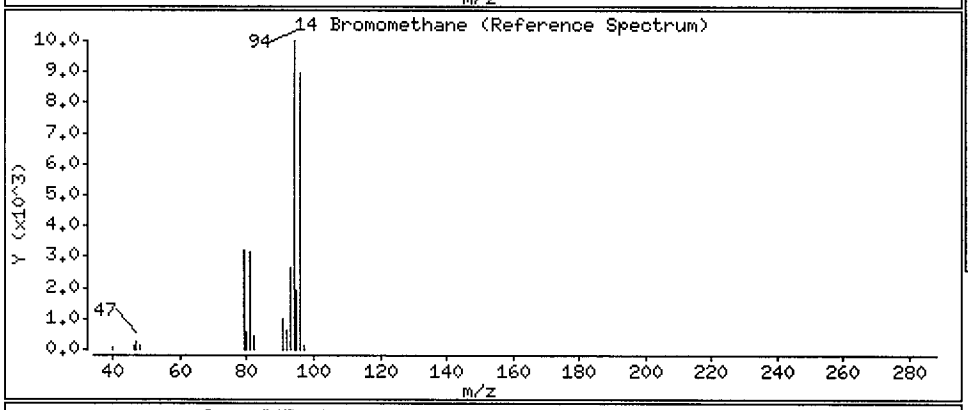
Column diameter: 0.18

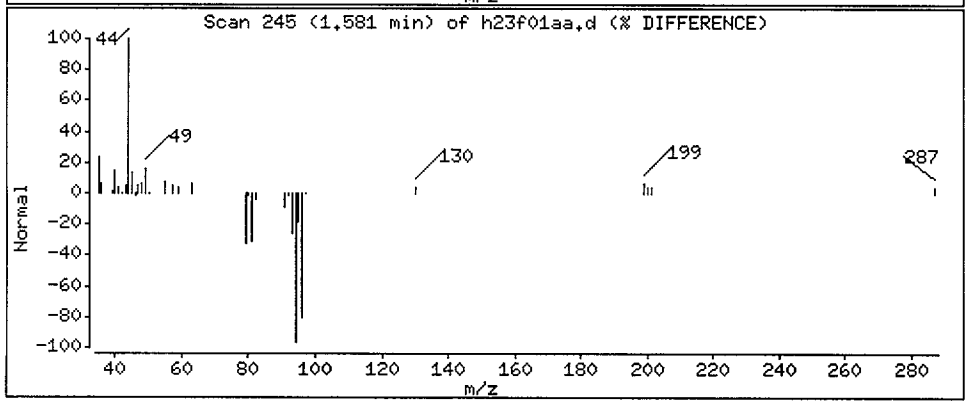
14 Bromomethane

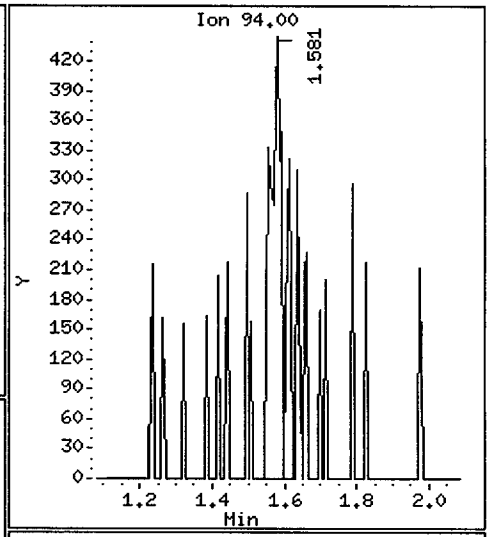
Concentration: 0.0028759 ug

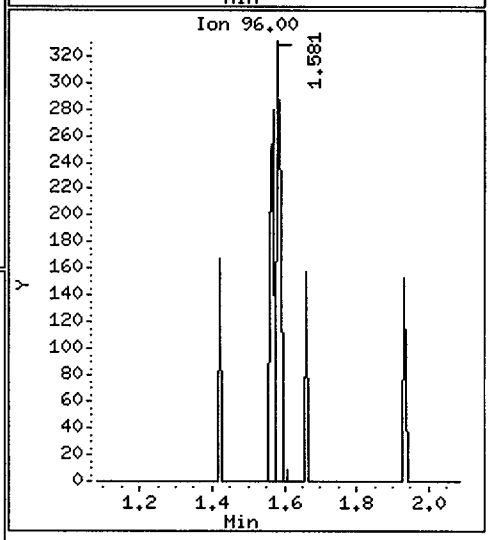












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

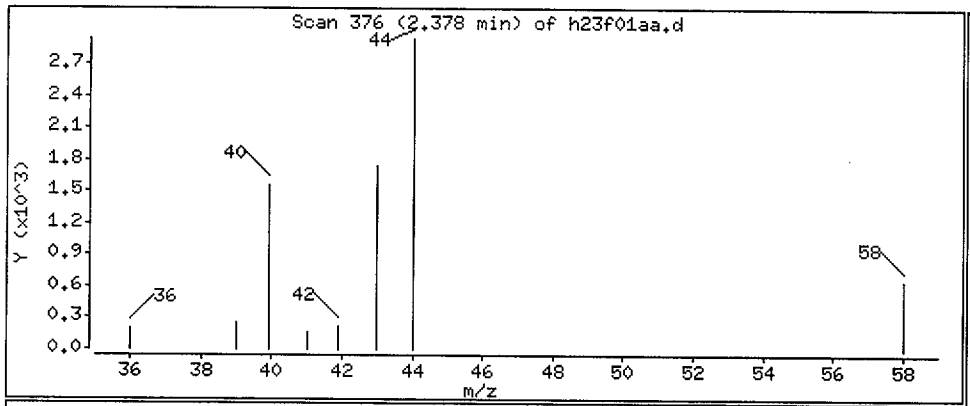
Operator: 22980

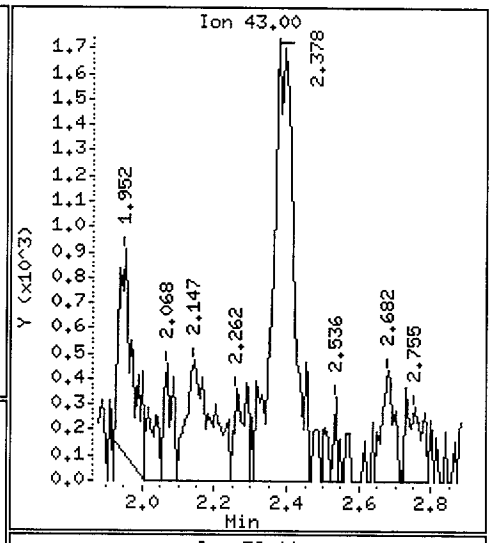
Column phase: J+W 624

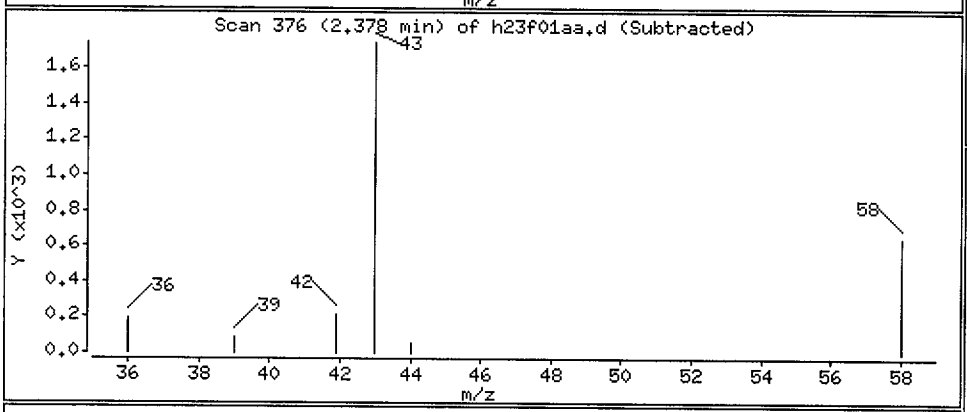
Column diameter: 0.18

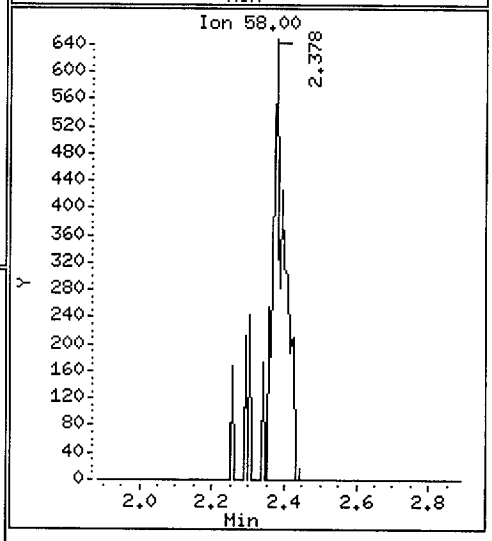
21 Acetone

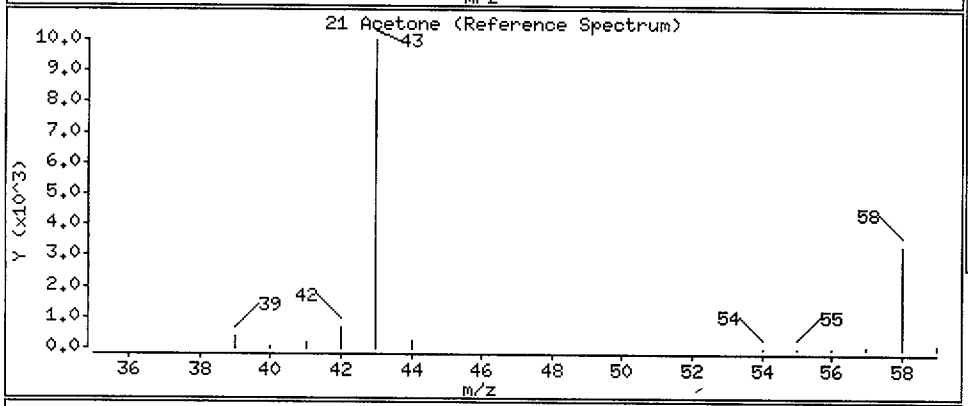
Concentration: 0.16695 ug

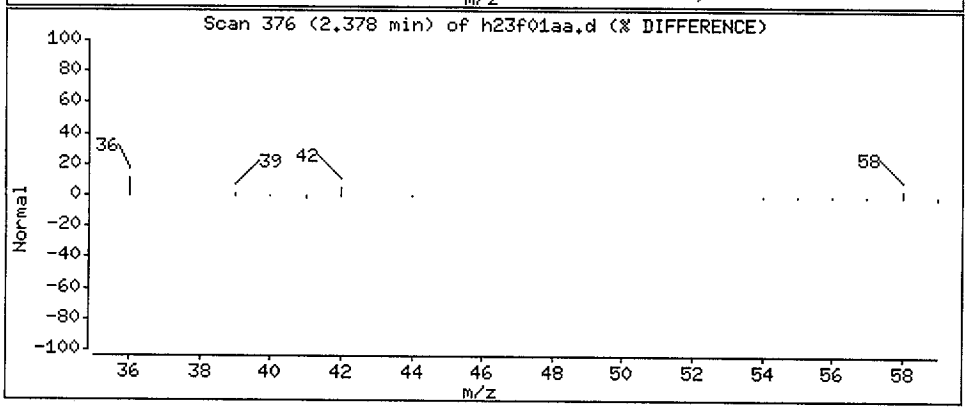












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

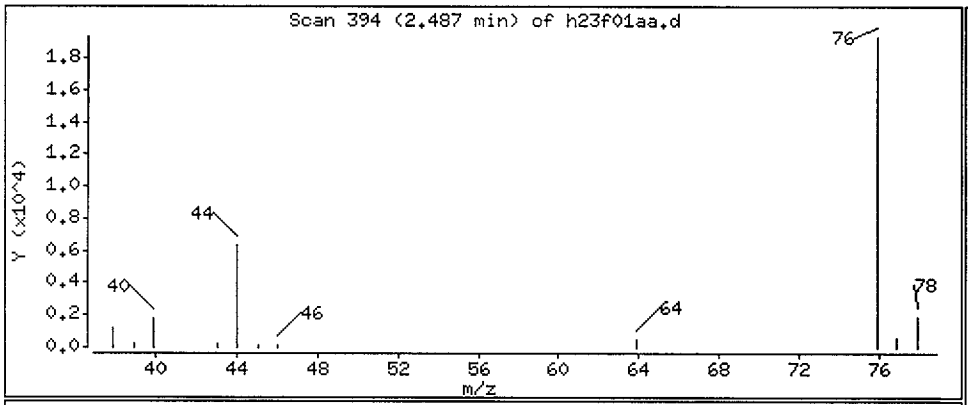
Operator: 22980

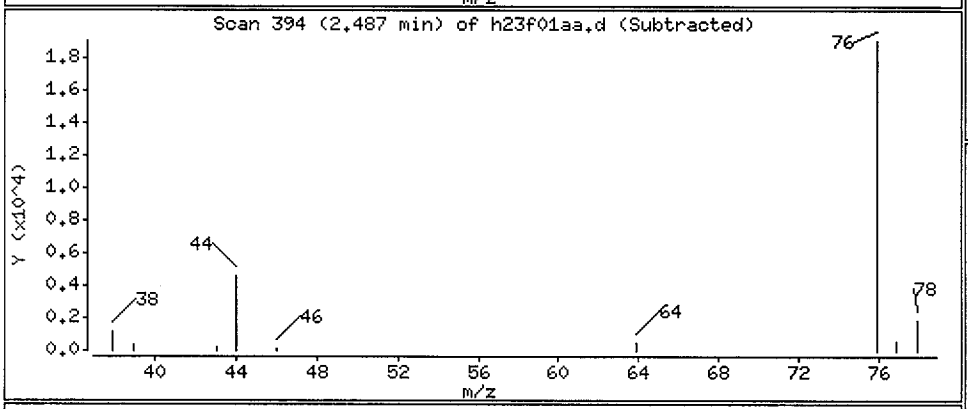
Column phase: J+W 624

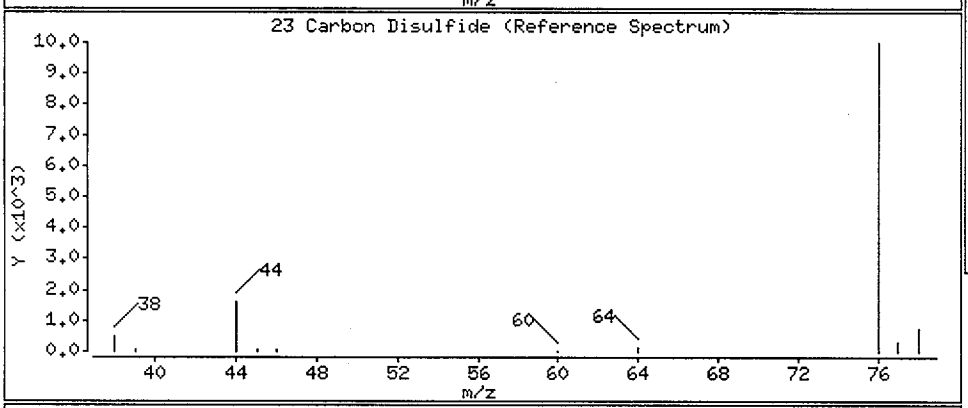
Column diameter: 0.18

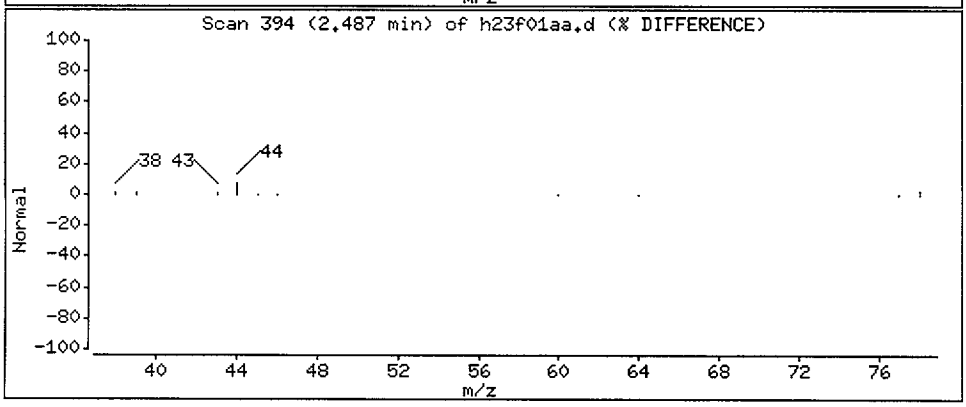
23 Carbon Disulfide

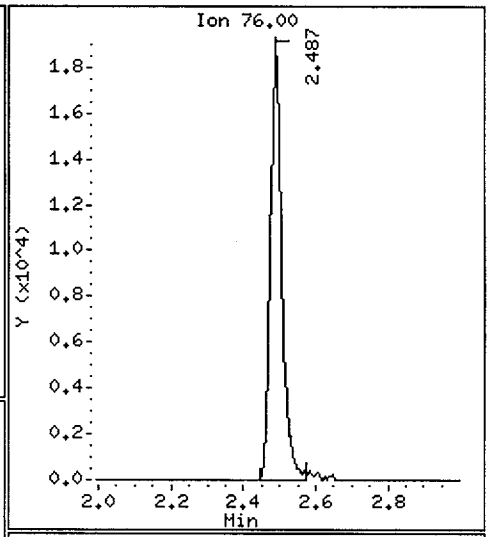
Concentration: 0.018136 ug

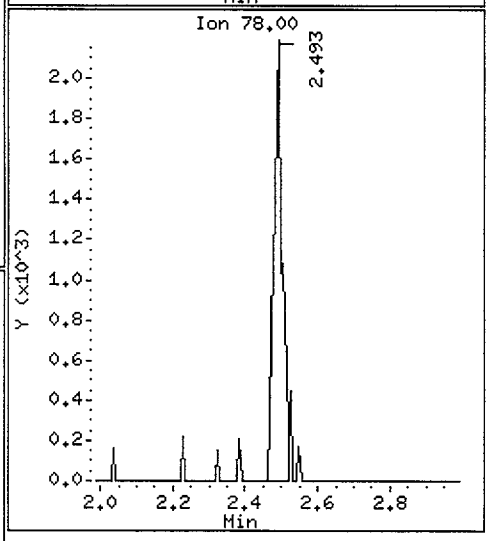












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

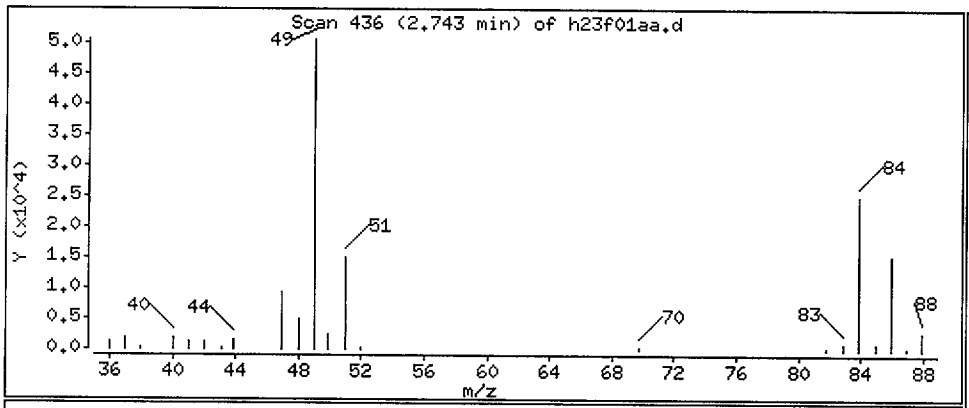
Operator: 22980

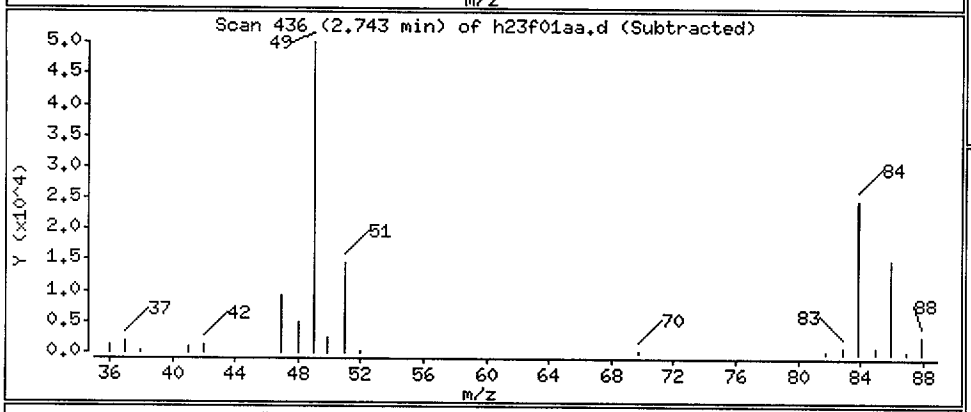
Column phase: J+W 624

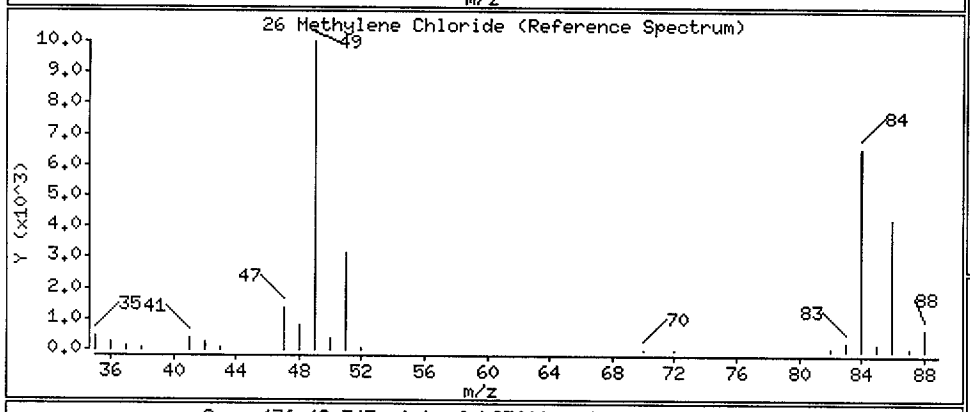
Column diameter: 0.18

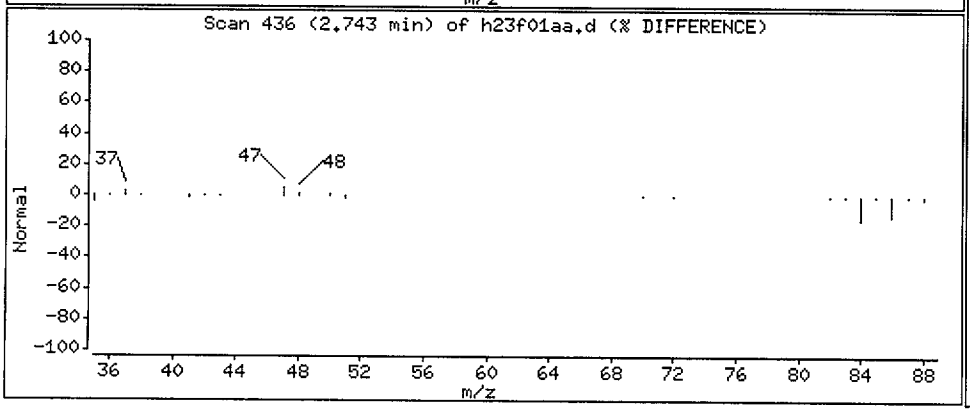
26 Methylene Chloride

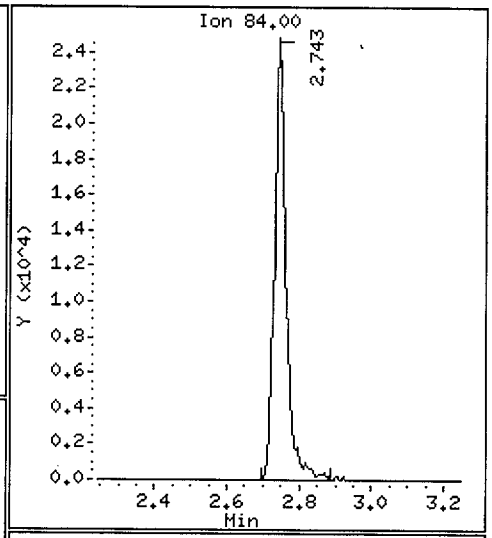
Concentration: 0.11993 ug

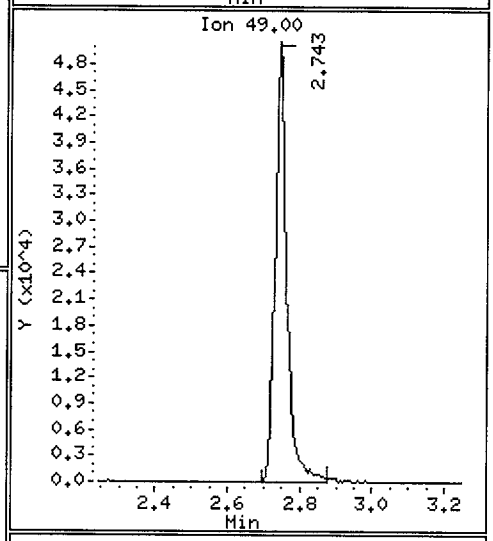


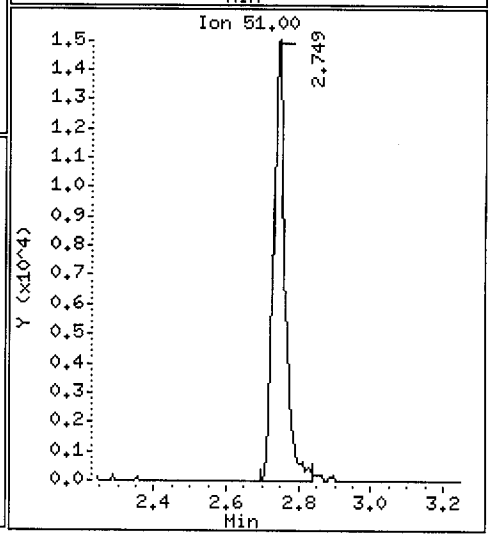












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

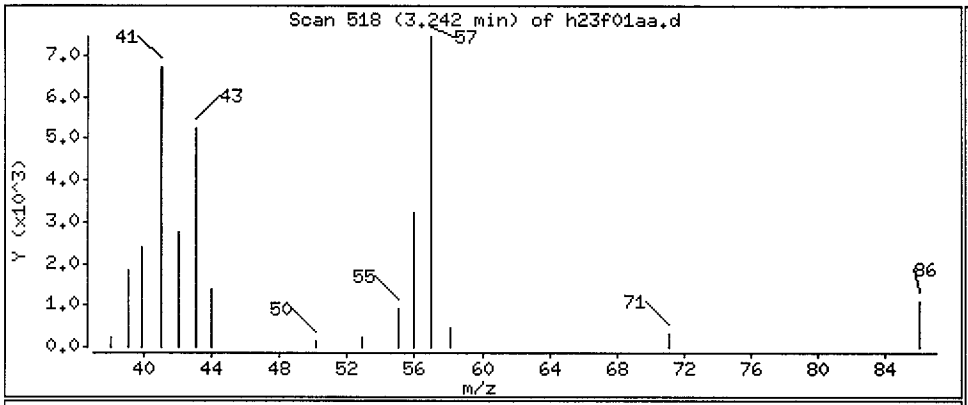
Operator: 22980

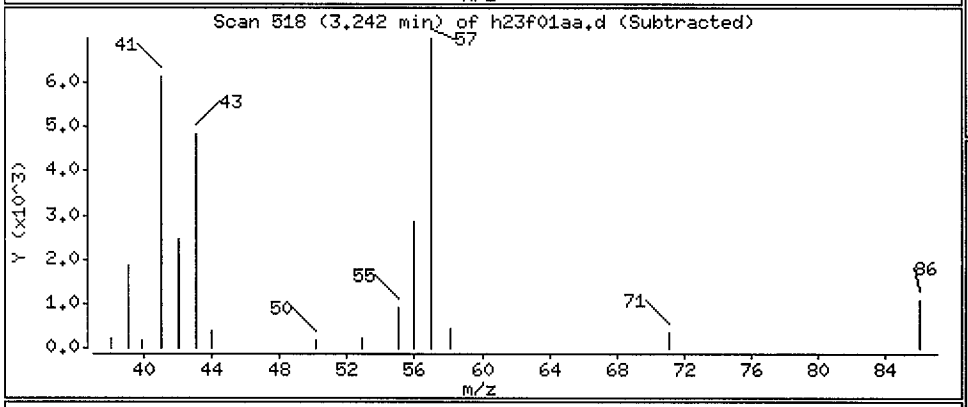
Column phase: J+W 624

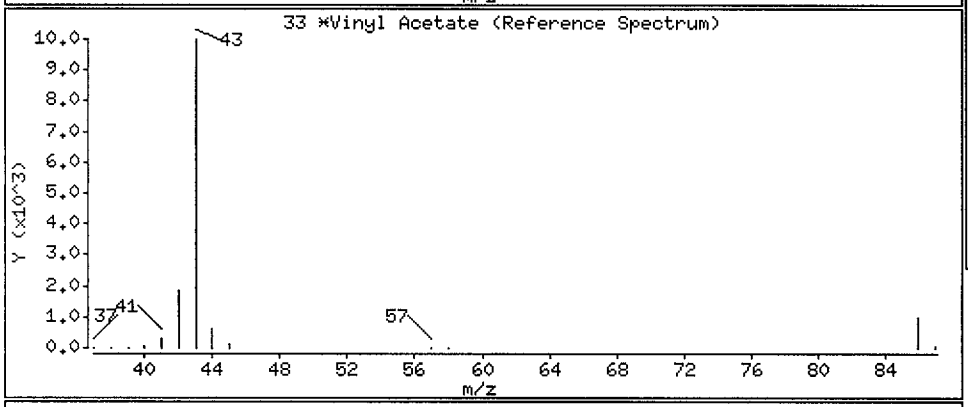
Column diameter: 0.18

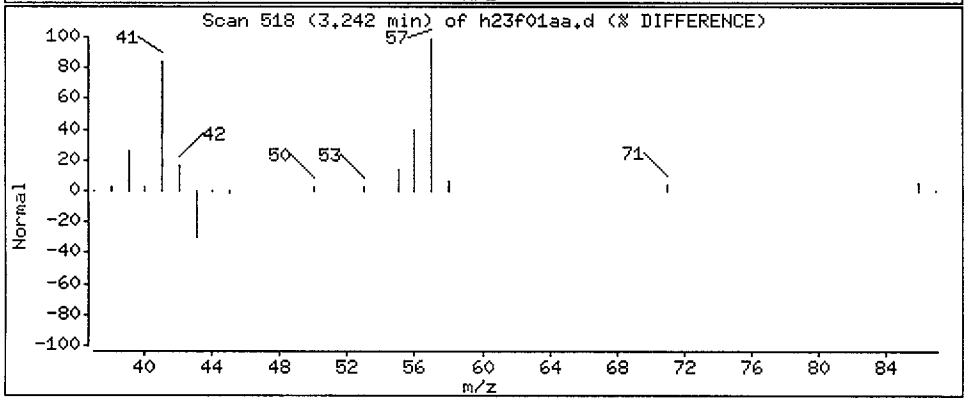
33 *Vinyl Acetate

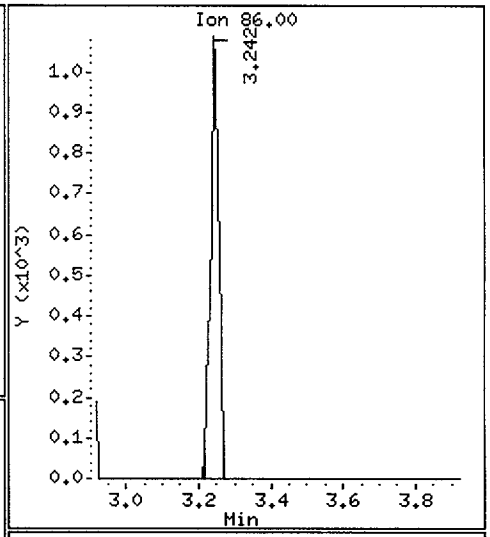
Concentration: 0.052433 ug

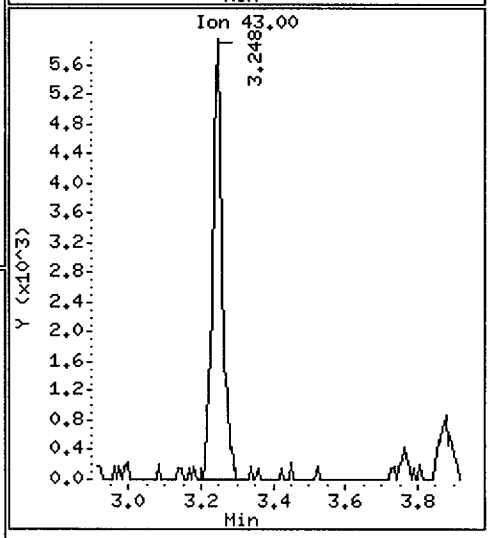












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

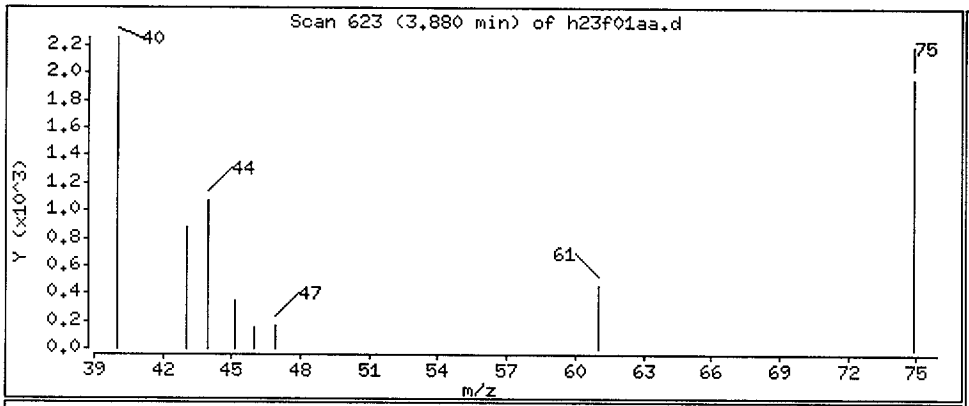
Operator: 22980

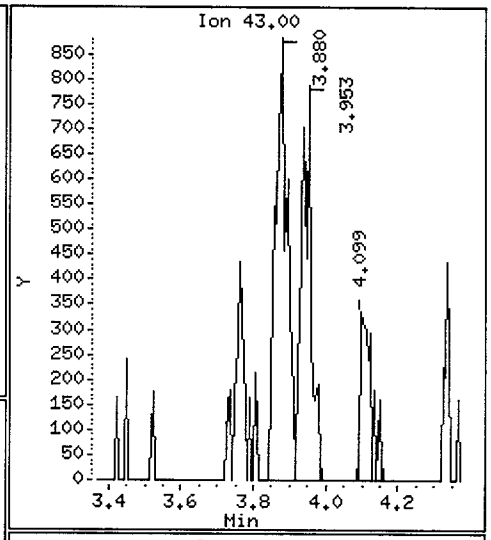
Column phase: J+W 624

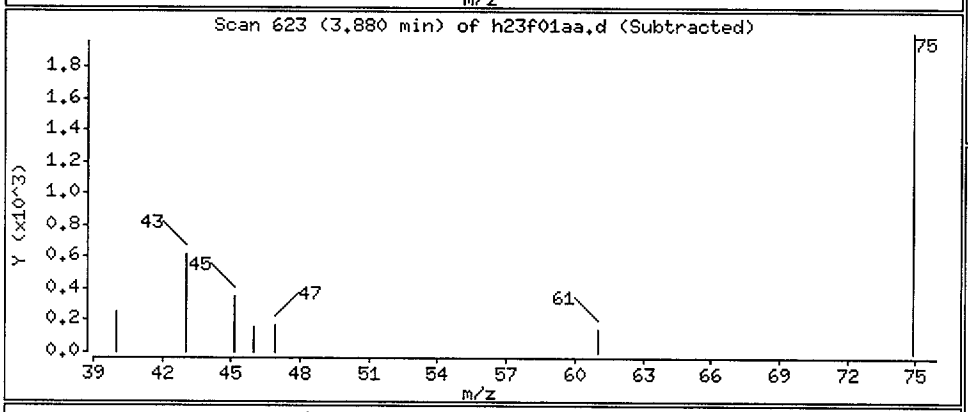
Column diameter: 0.18

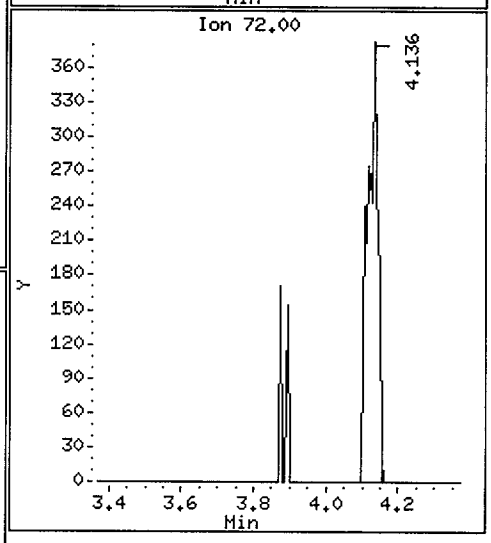
36 2-Butanone

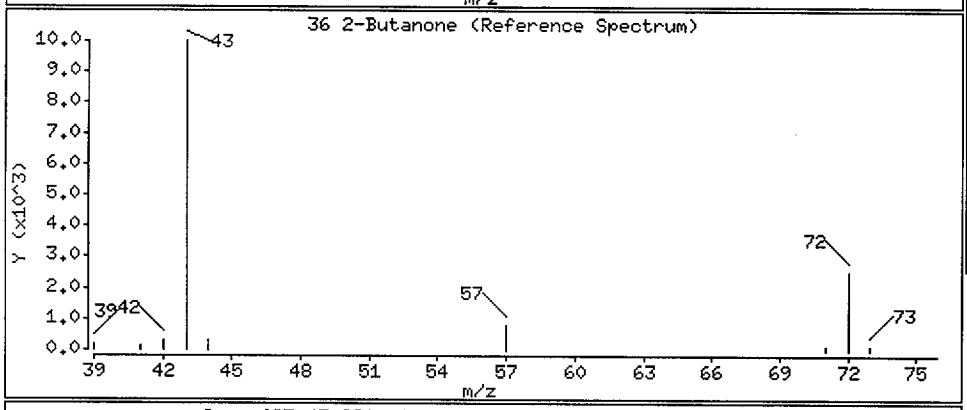
Concentration: 0.029924 ug

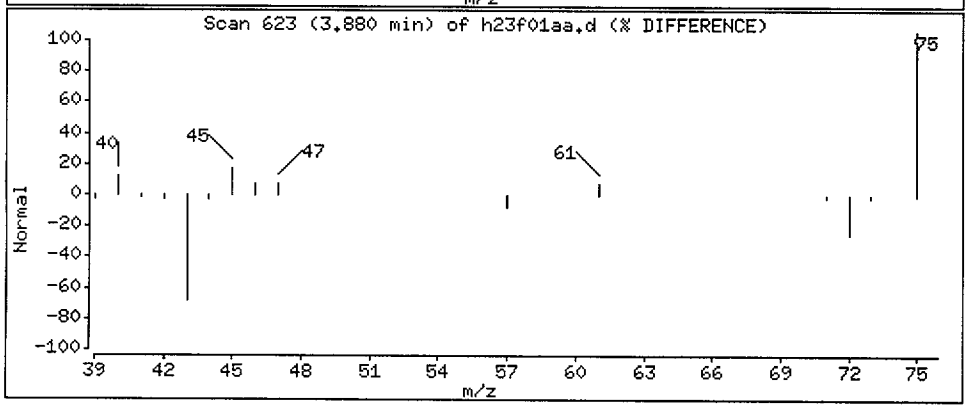












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

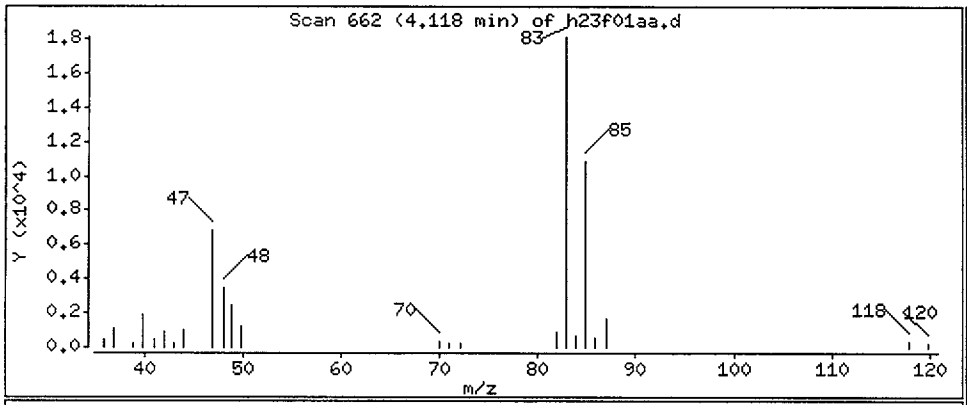
Operator: 22980

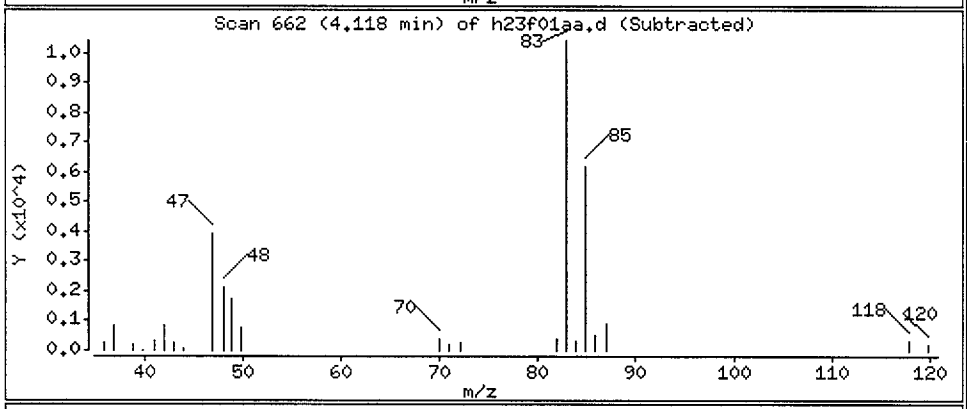
Column phase: J+W 624

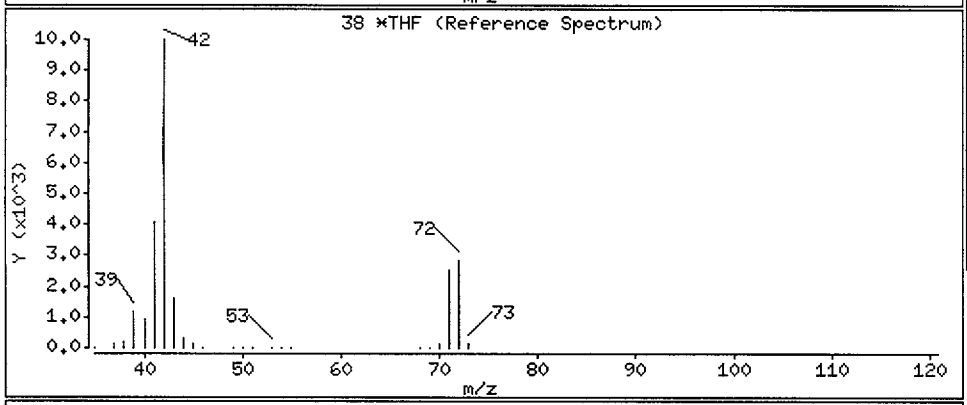
Column diameter: 0.18

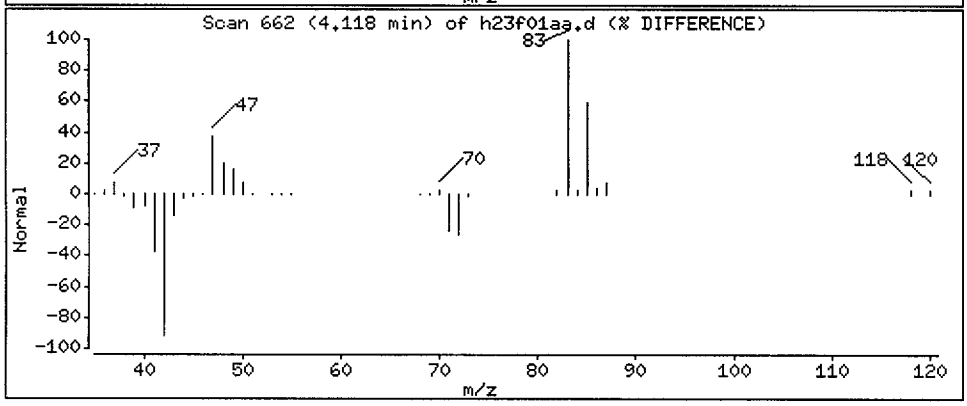
38 *THF

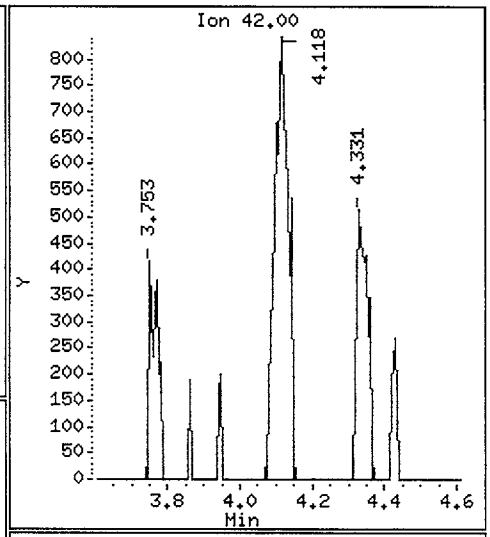
Concentration: 0.054010 ug

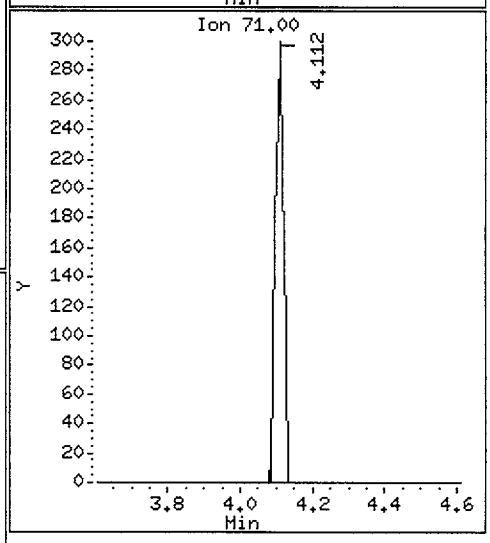












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

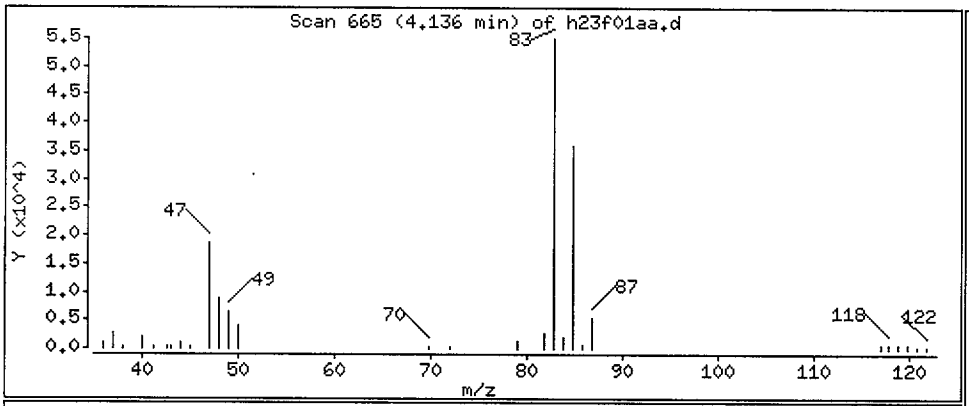
Operator: 22980

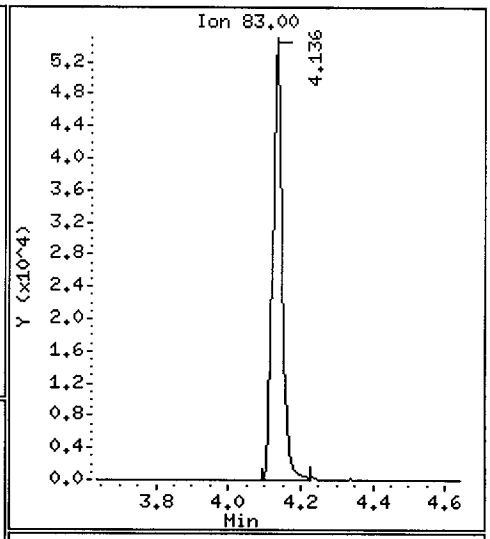
Column phase: J+W 624

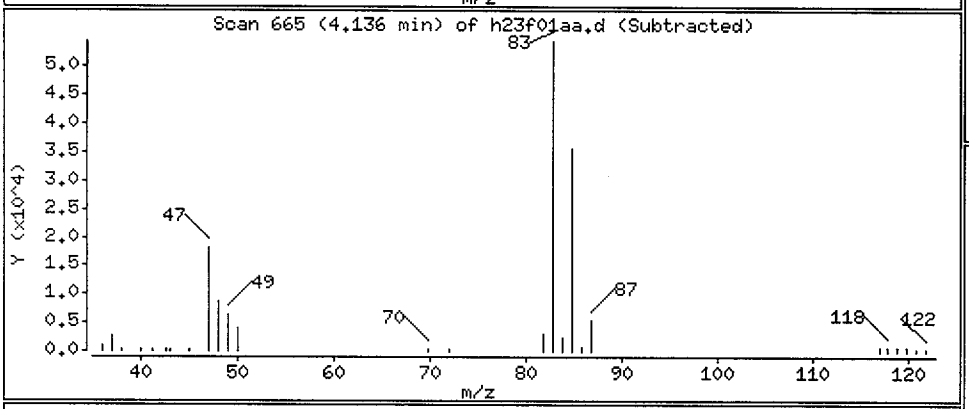
Column diameter: 0.18

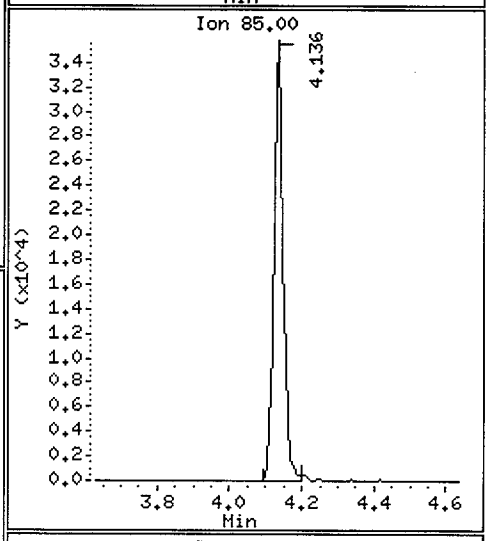
39 Chloroform (ccc)

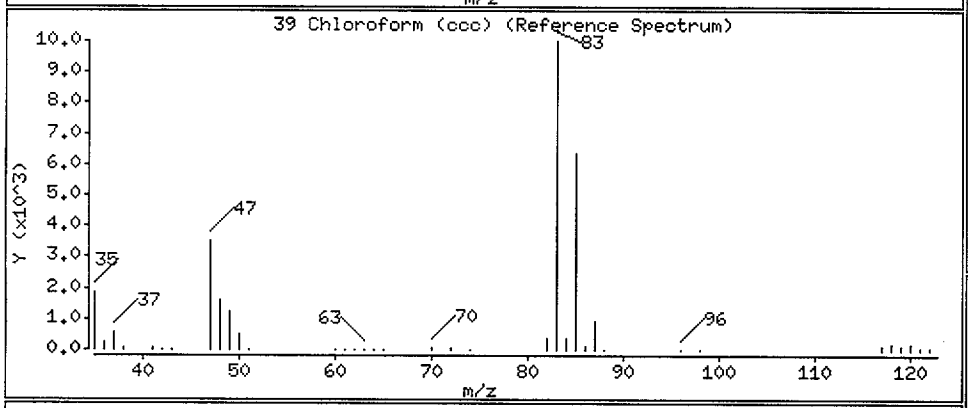
Concentration: 0.088576 ug

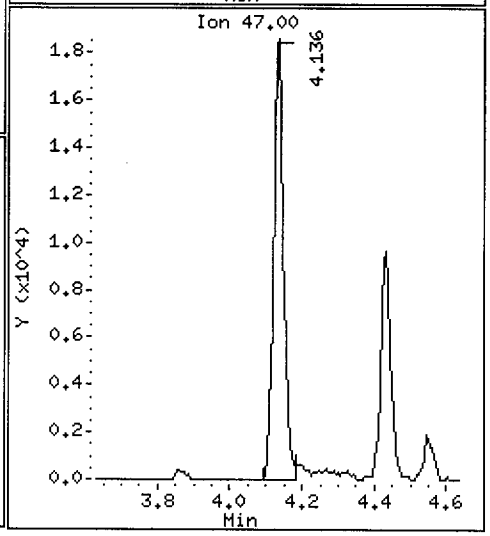


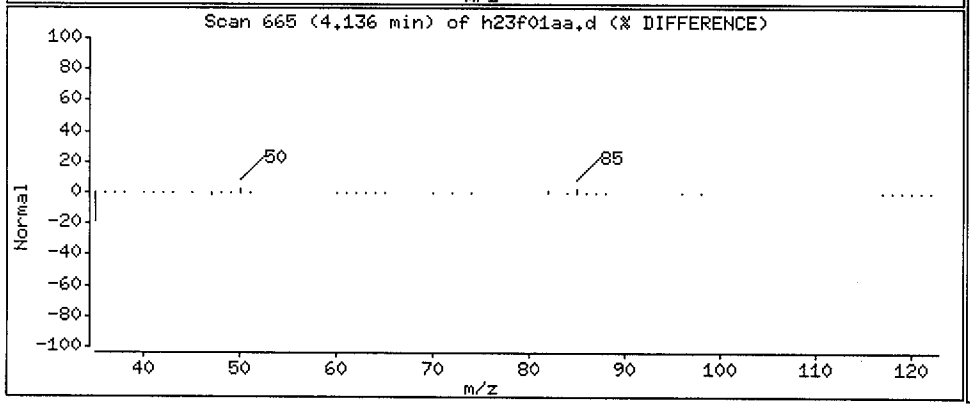












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

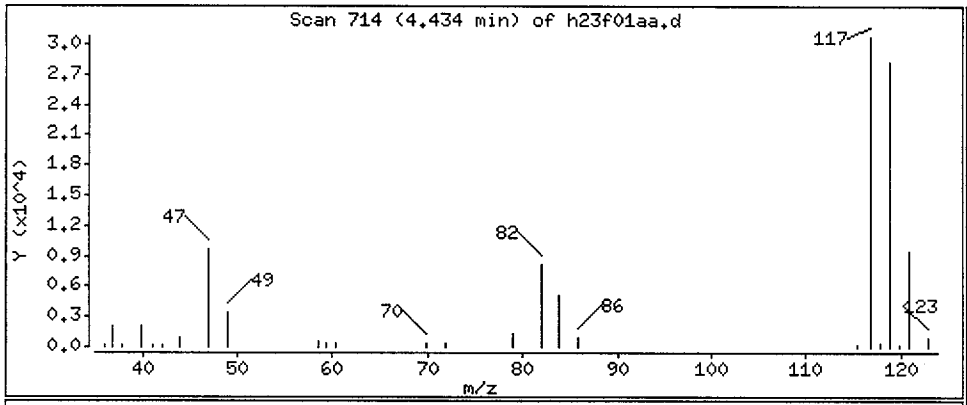
Operator: 22980

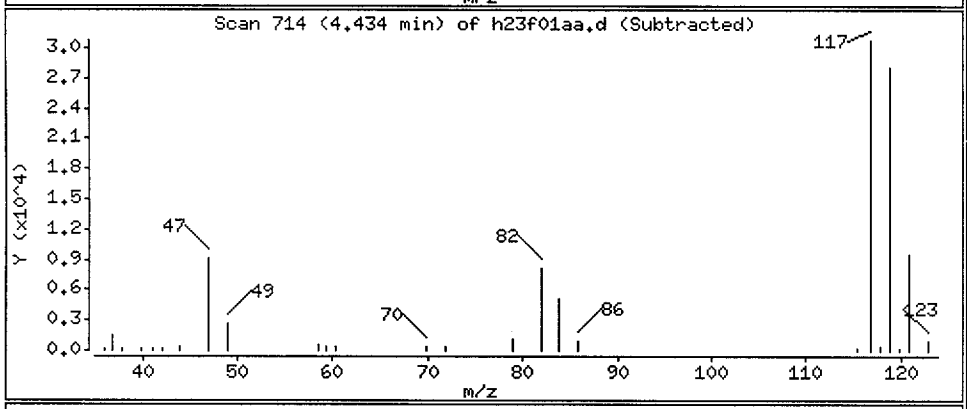
Column phase: J+W 624

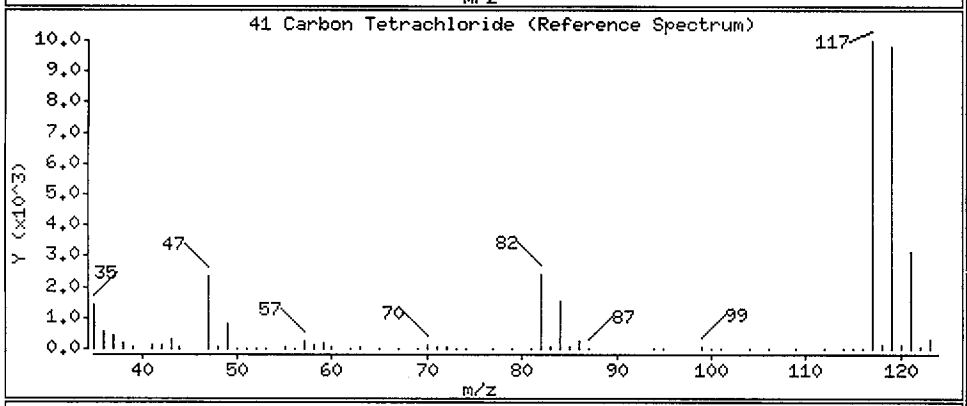
Column diameter: 0.18

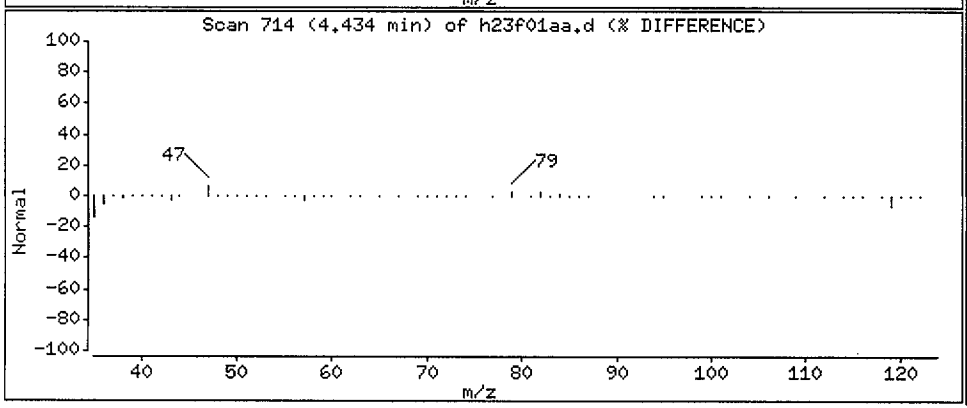
41 Carbon Tetrachloride

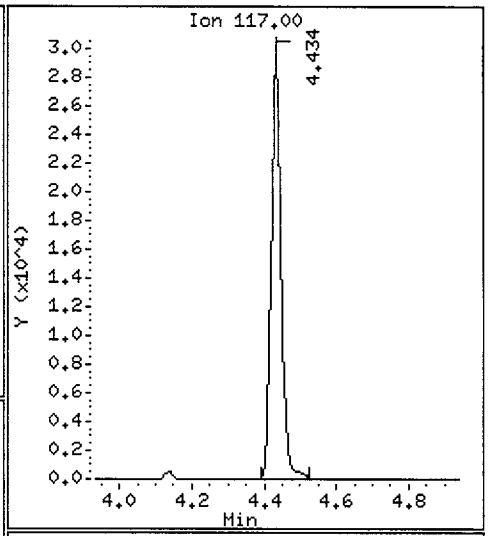
Concentration: 0.052498 ug

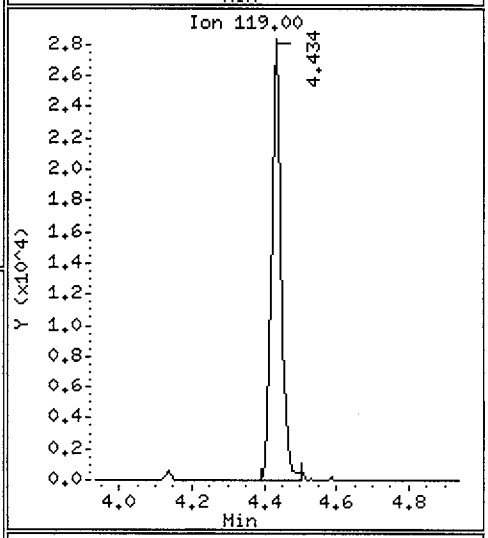


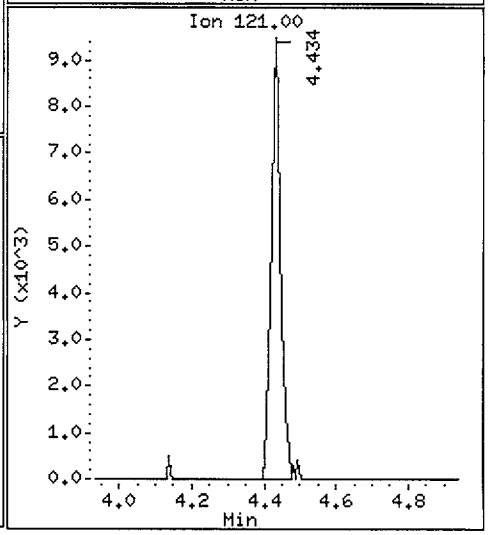












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

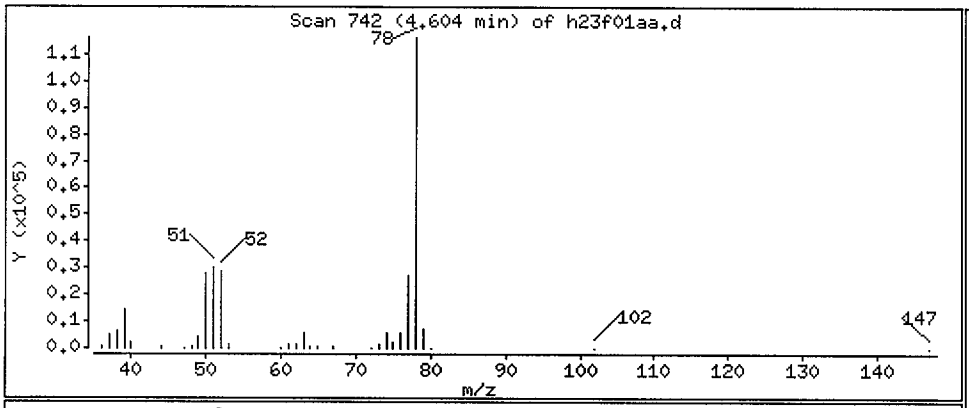
Operator: 22980

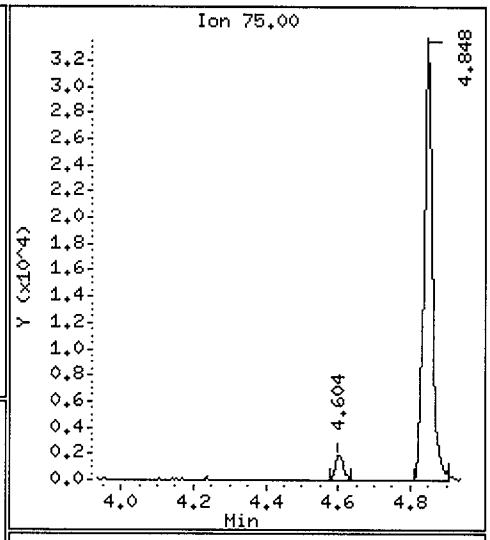
Column phase: J+W 624

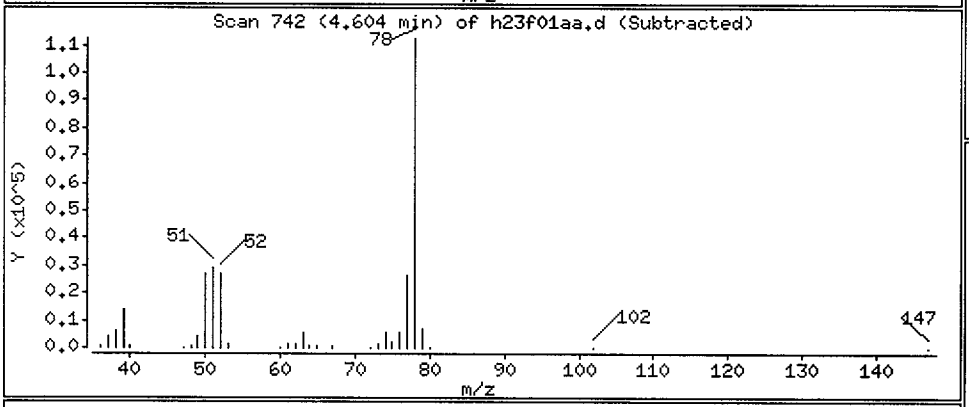
Column diameter: 0.18

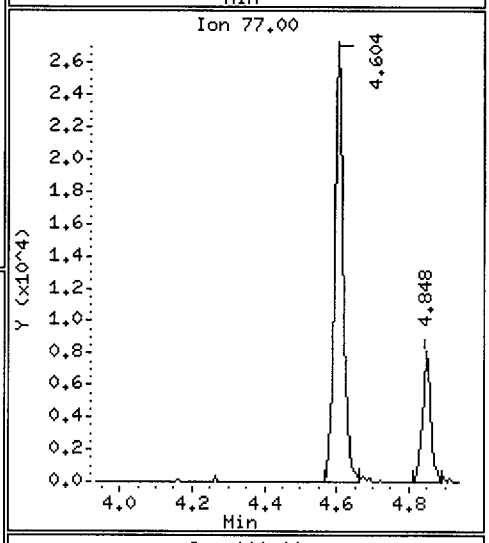
42 1,1-Dichloropropene

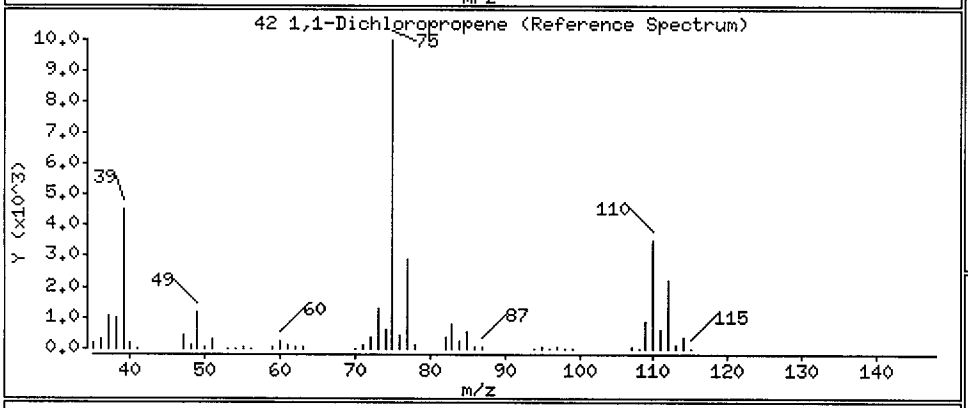
Concentration: 0.0028823 ug

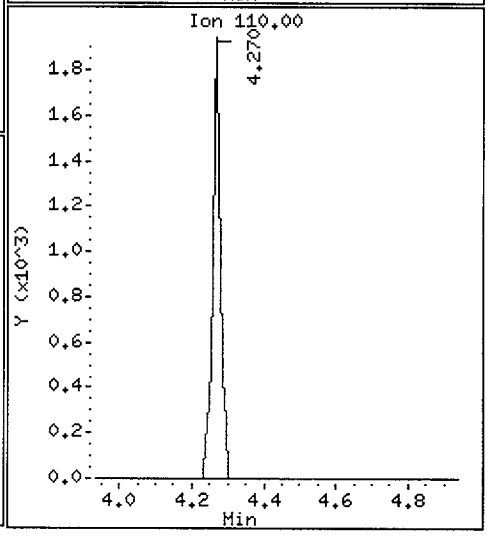


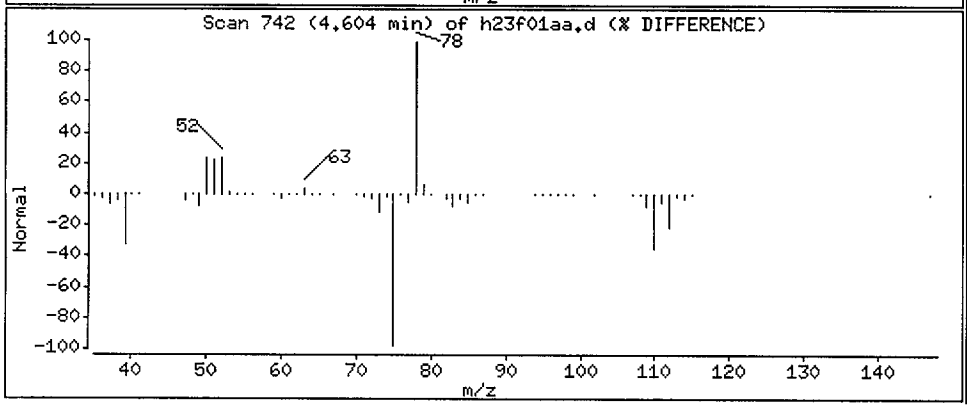












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

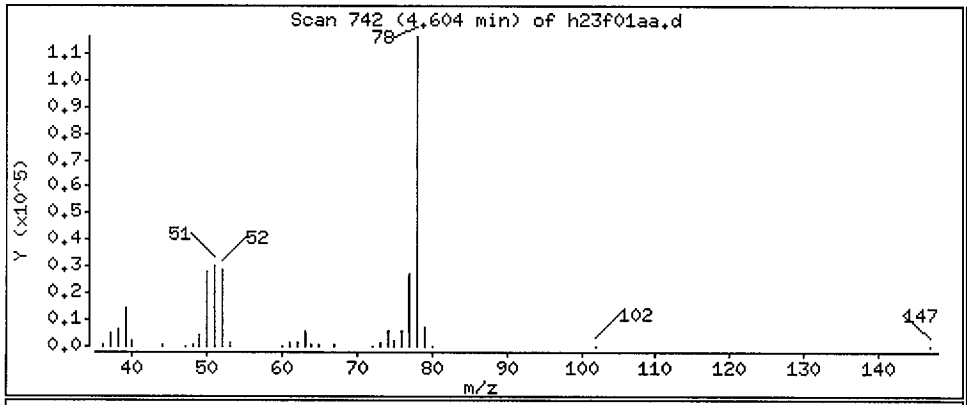
Operator: 22980

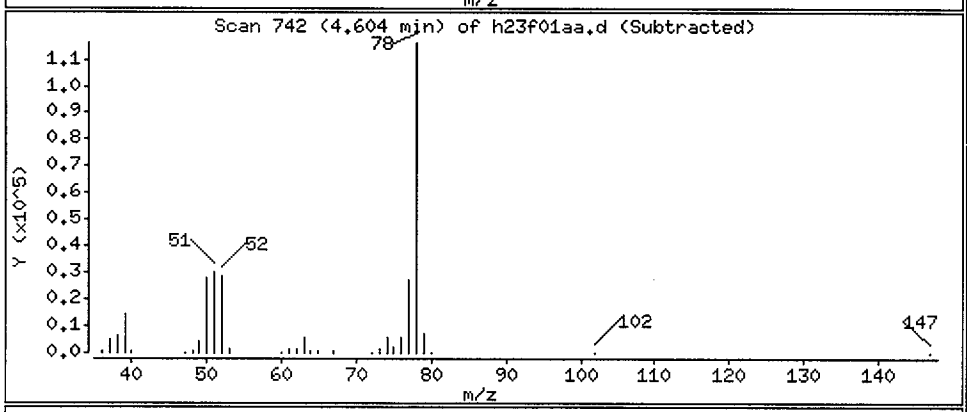
Column phase: J+W 624

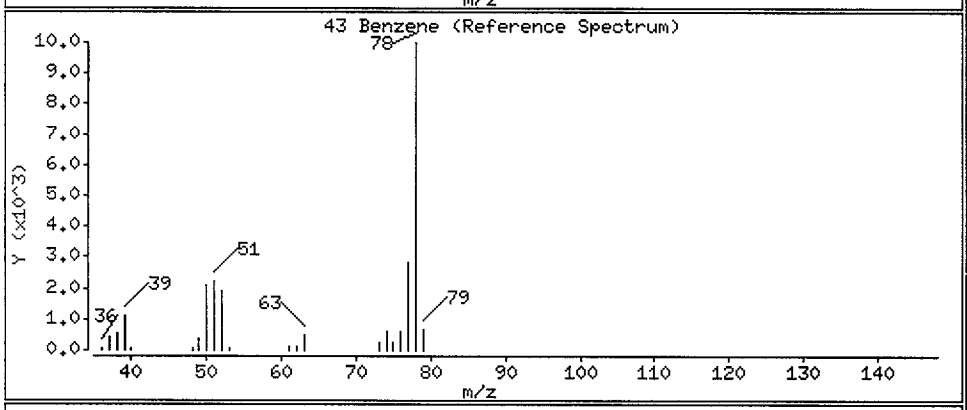
Column diameter: 0.18

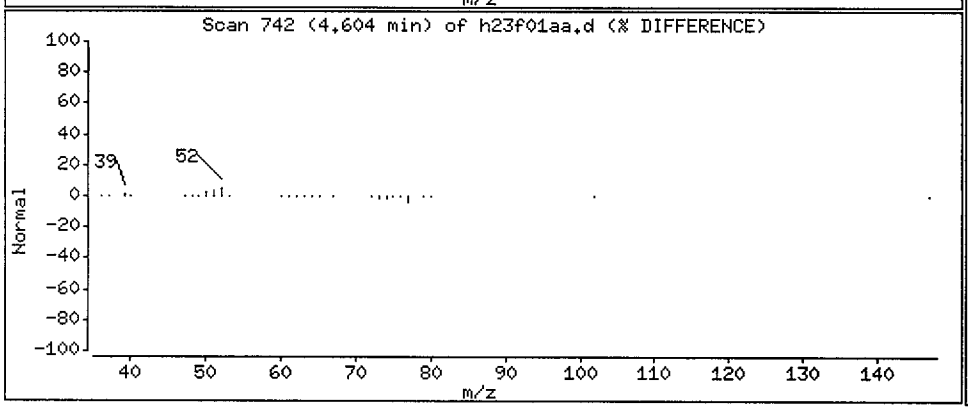
43 Benzene

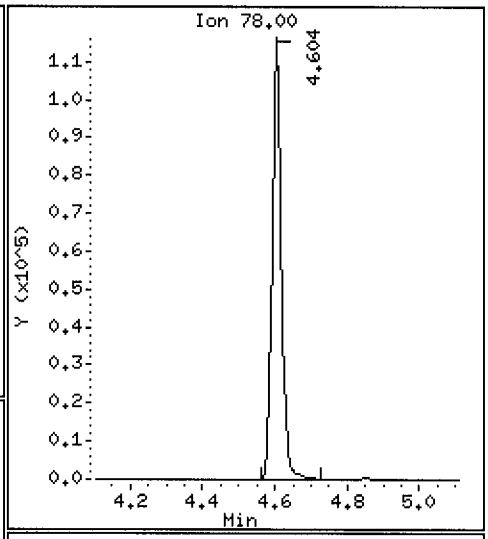
Concentration: 0.068129 ug

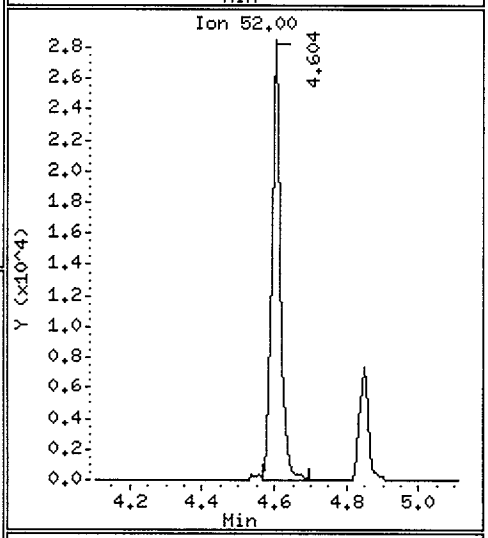


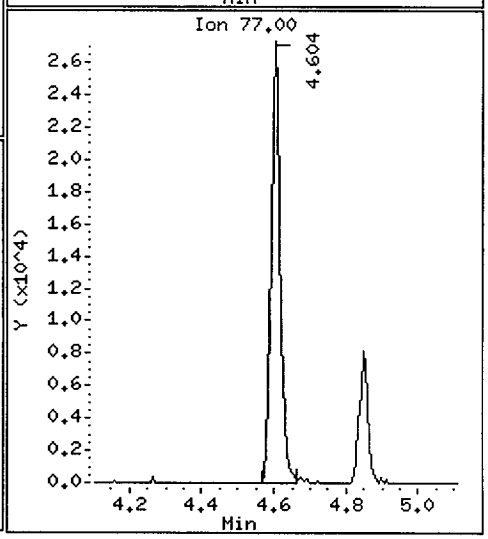












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

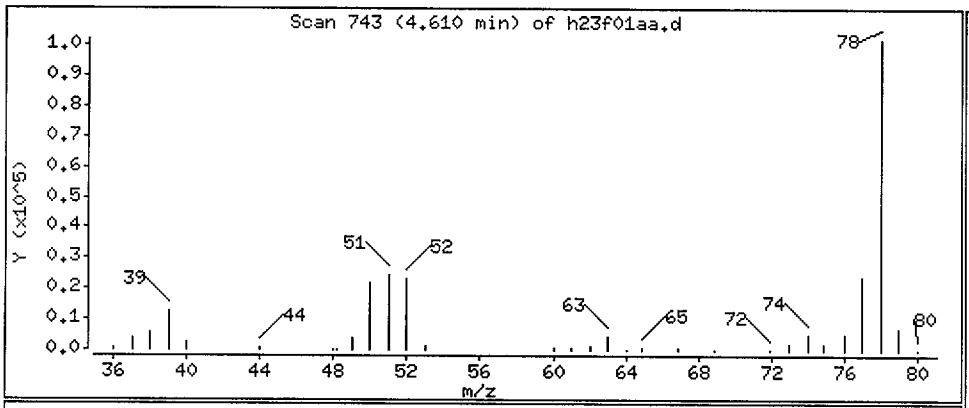
Operator: 22980

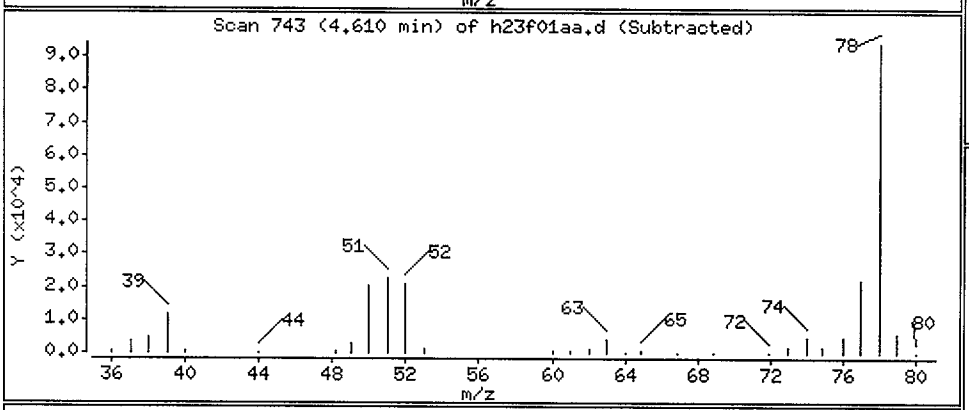
Column phase: J+W 624

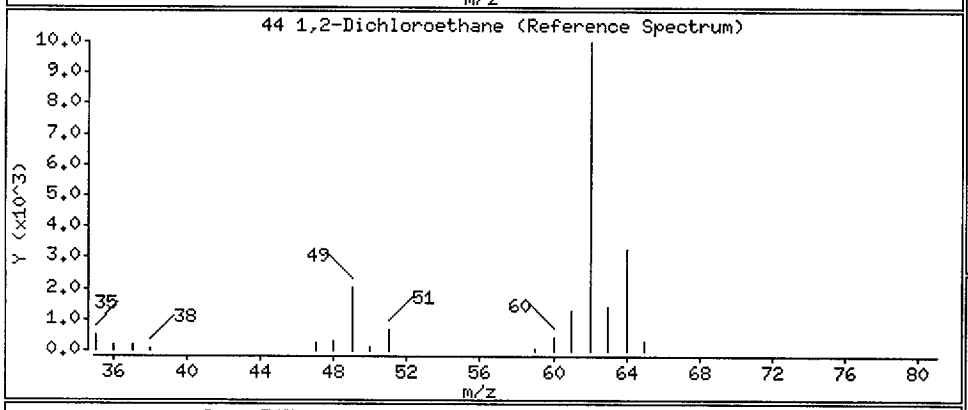
Column diameter: 0.18

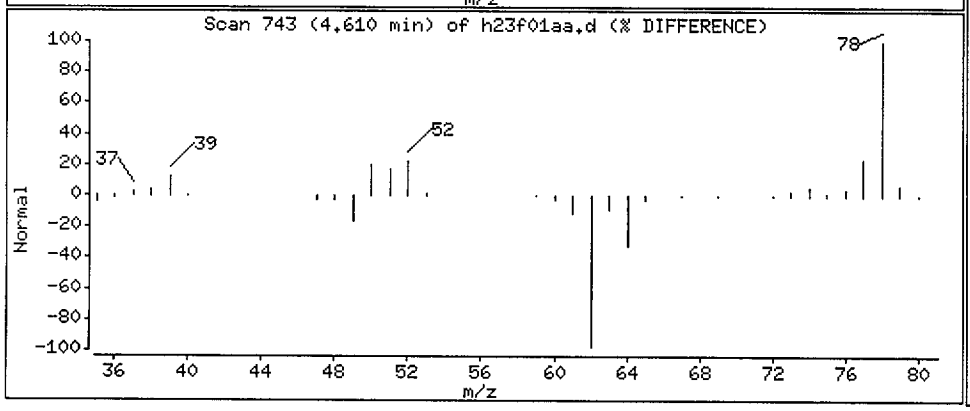
44 1,2-Dichloroethane

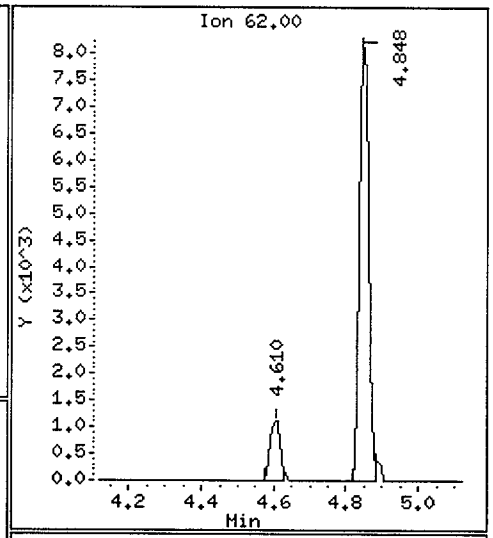
Concentration: 0.0040651 ug

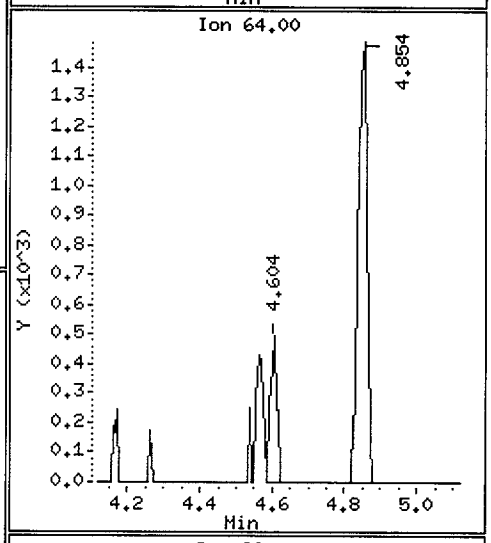


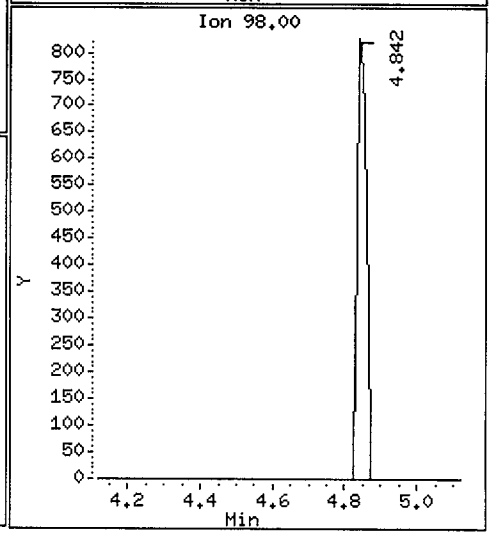












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

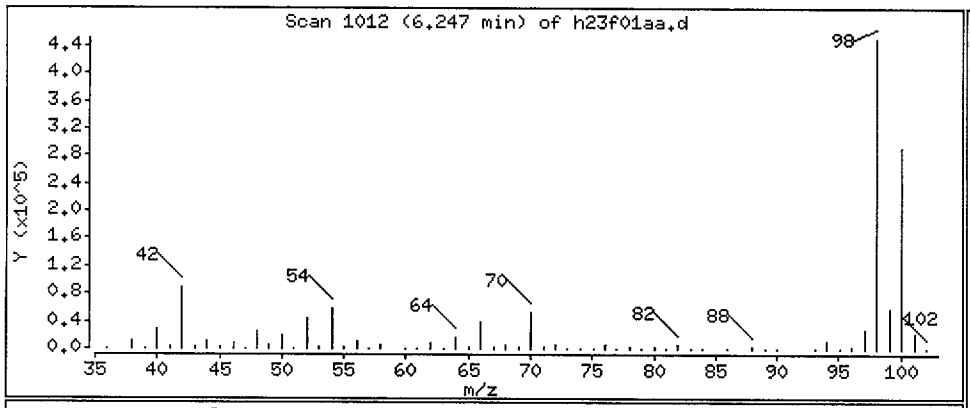
Operator: 22980

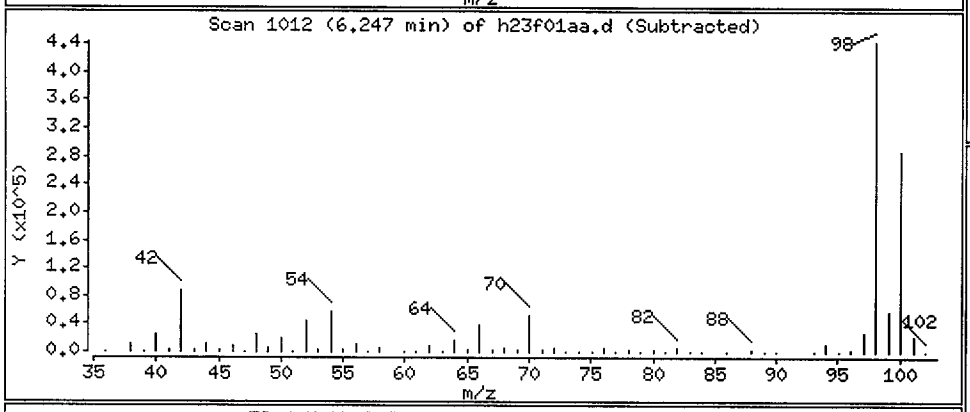
Column phase: J+W 624

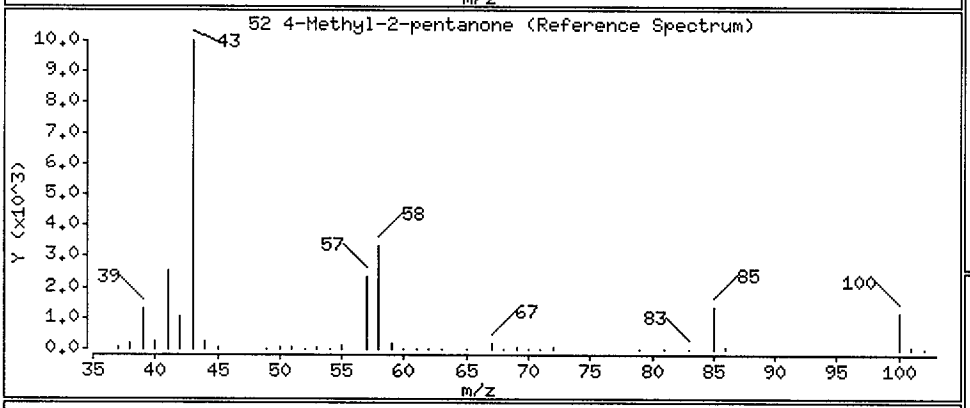
Column diameter: 0.18

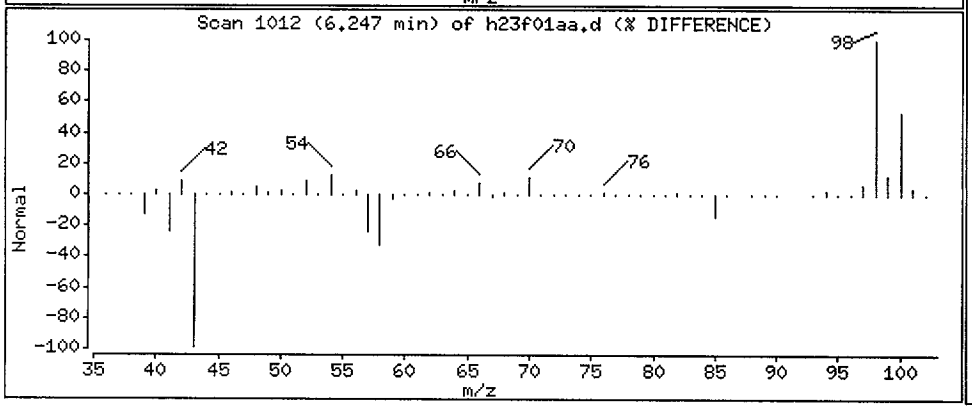
52 4-Methyl-2-pentanone

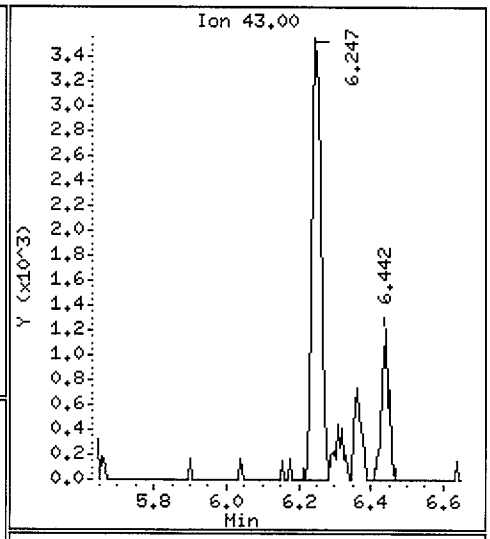
Concentration: 0.037138 ug

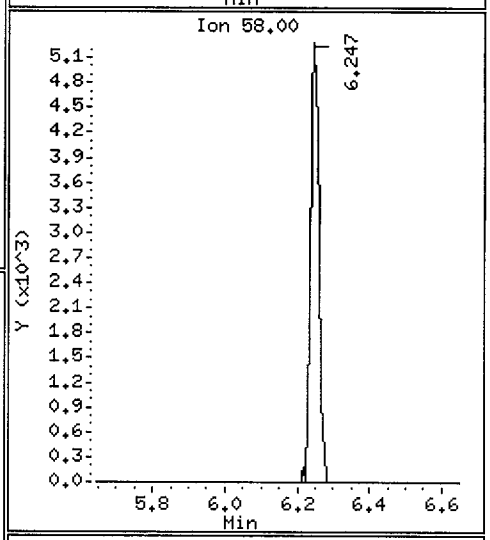


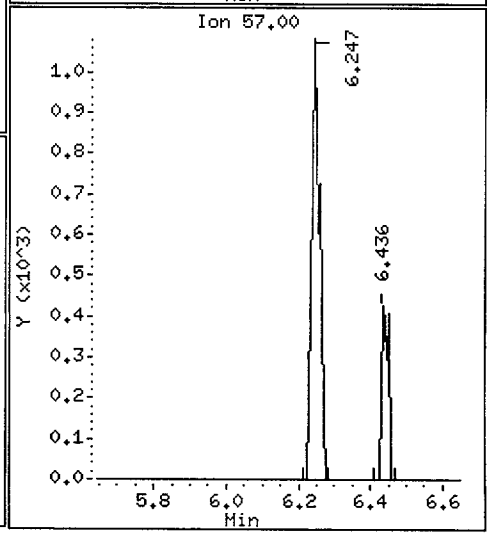












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

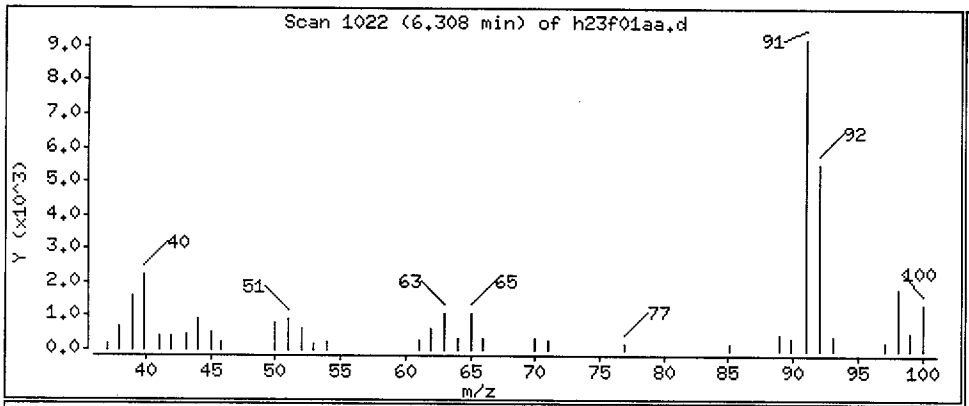
Operator: 22980

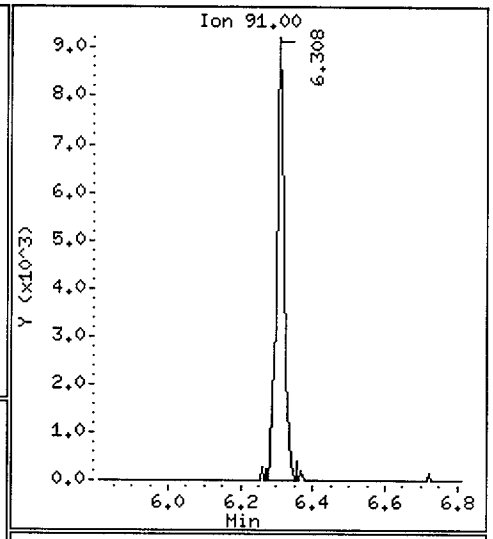
Column phase: J+W 624

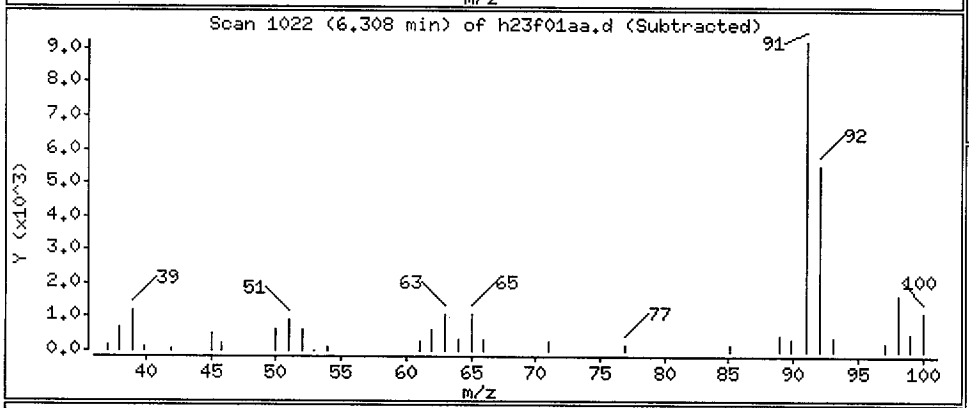
Column diameter: 0.18

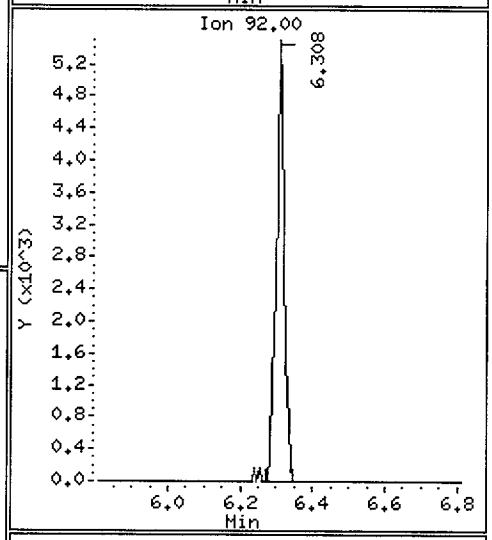
53 Toluene (ccc)

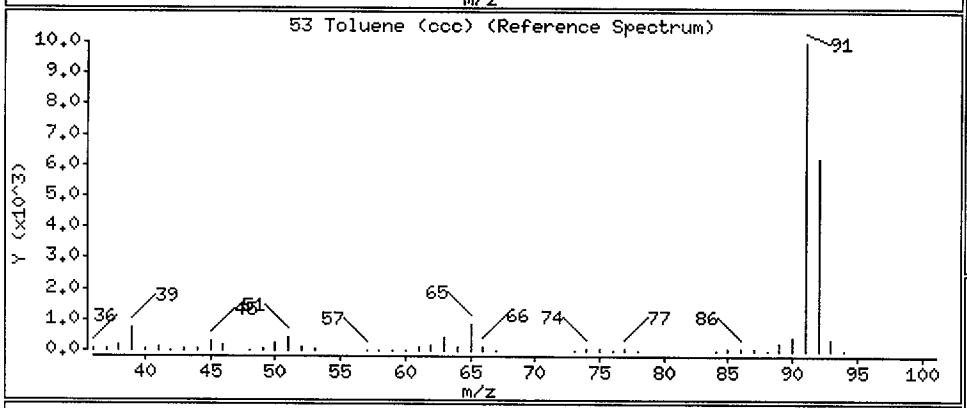
Concentration: 0.0031769 ug

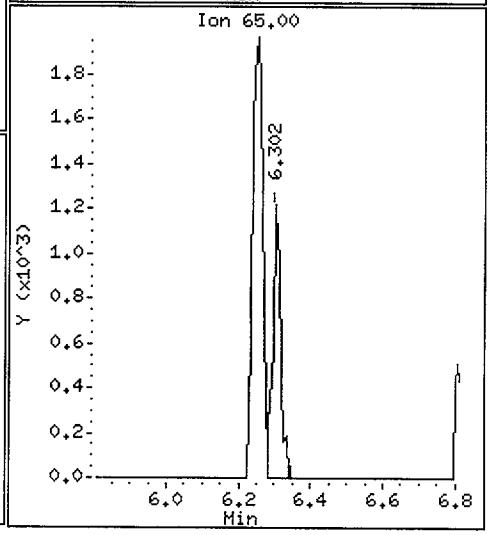


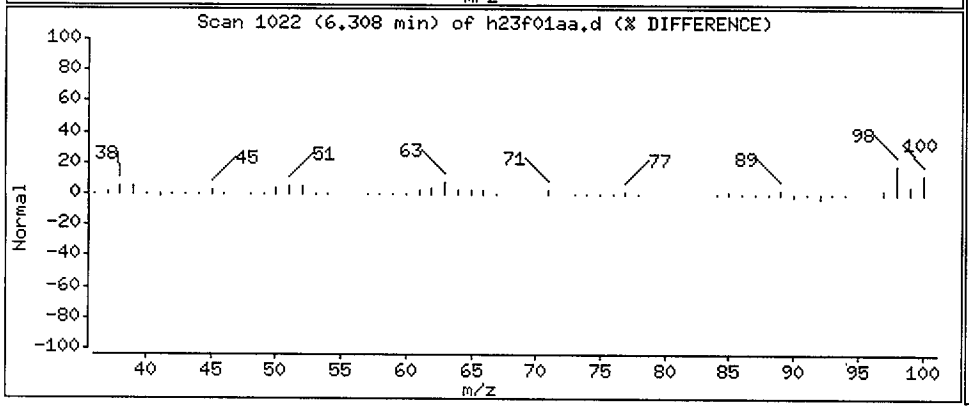












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

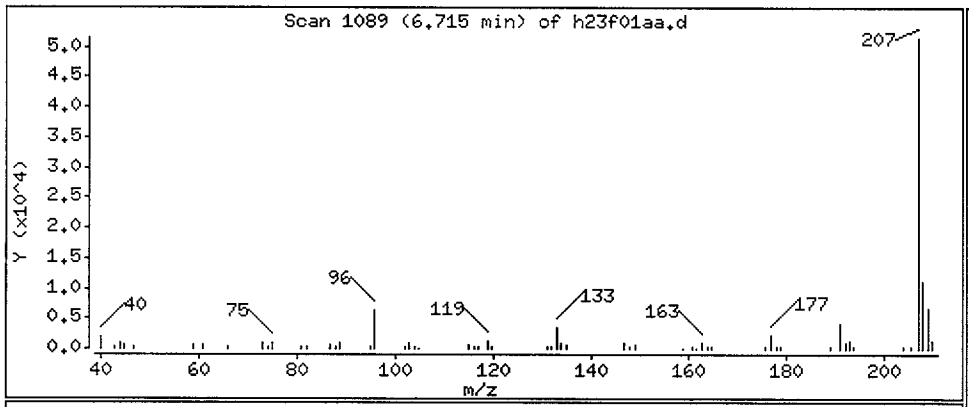
Operator: 22980

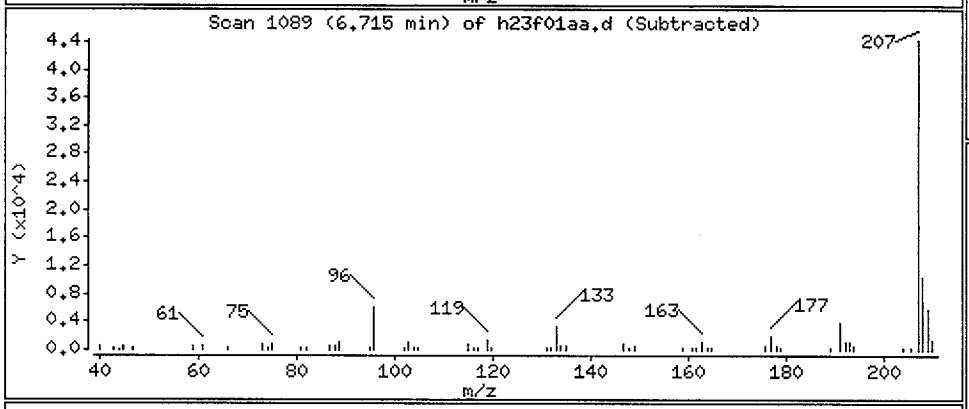
Column phase: J+W 624

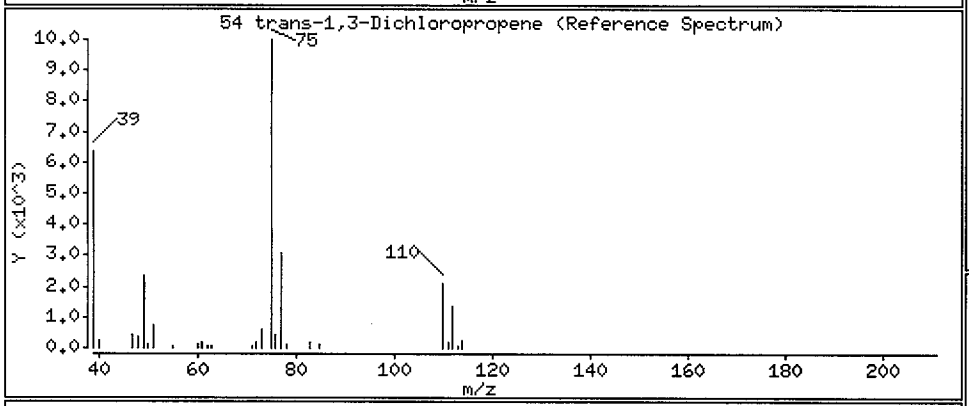
Column diameter: 0.18

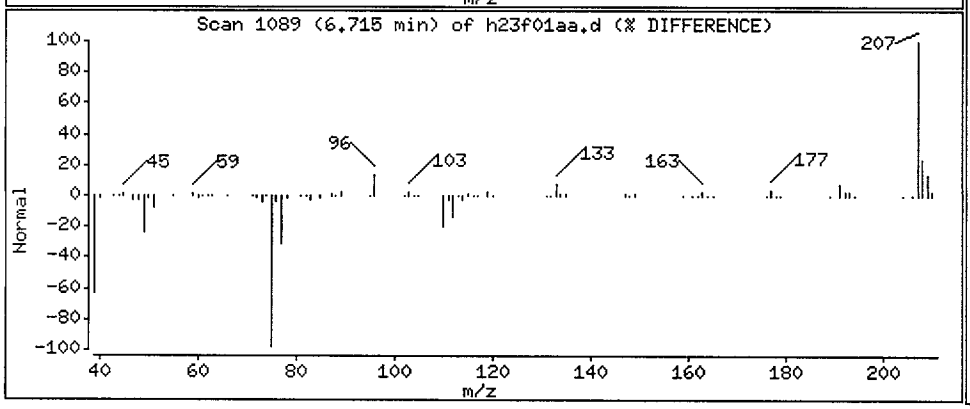
54 trans-1,3-Dichloropropene

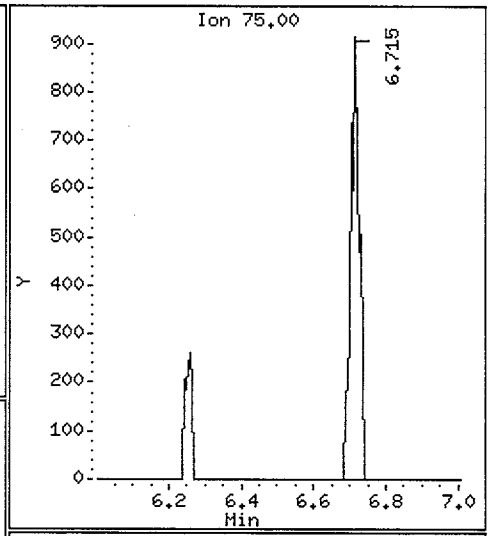
Concentration: 0.0020298 ug

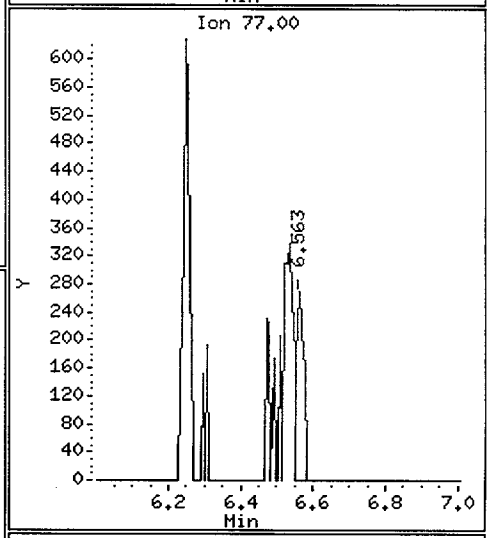


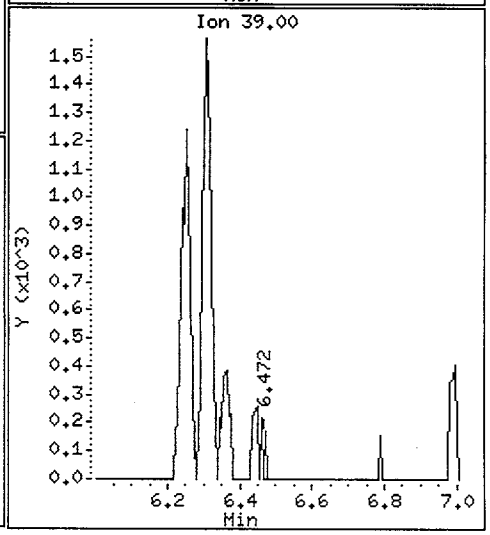












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

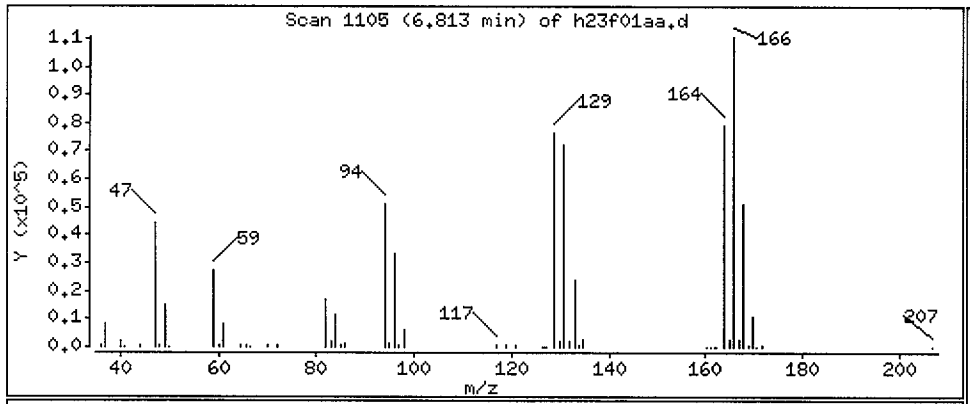
Operator: 22980

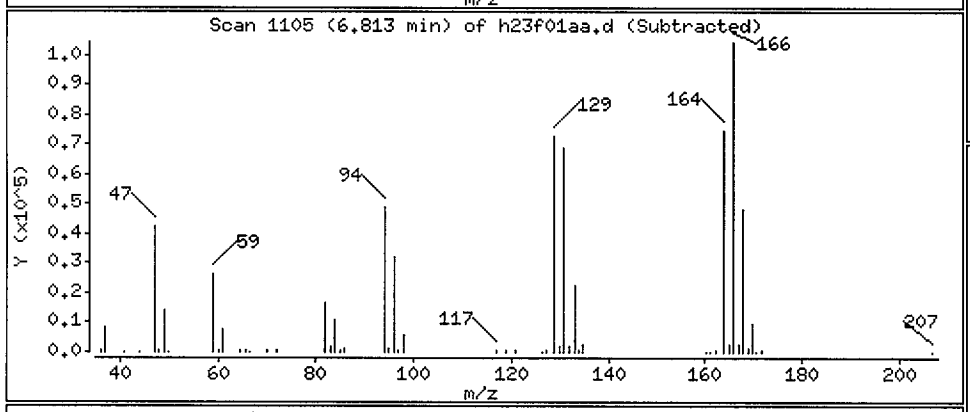
Column phase: J+W 624

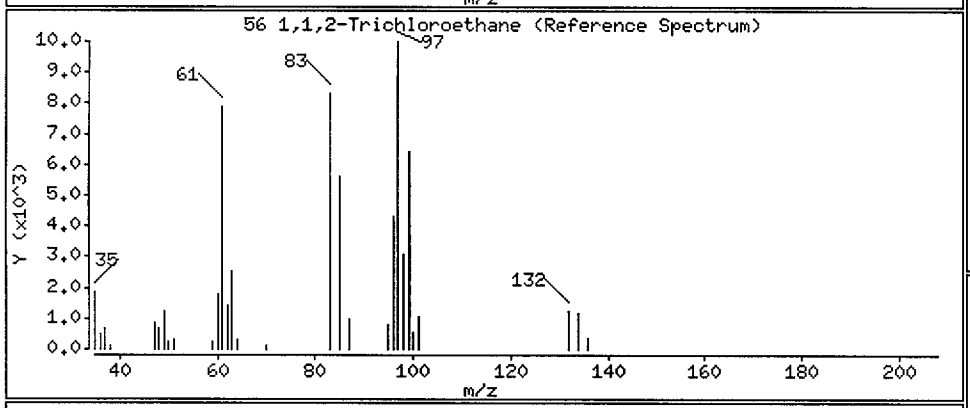
Column diameter: 0.18

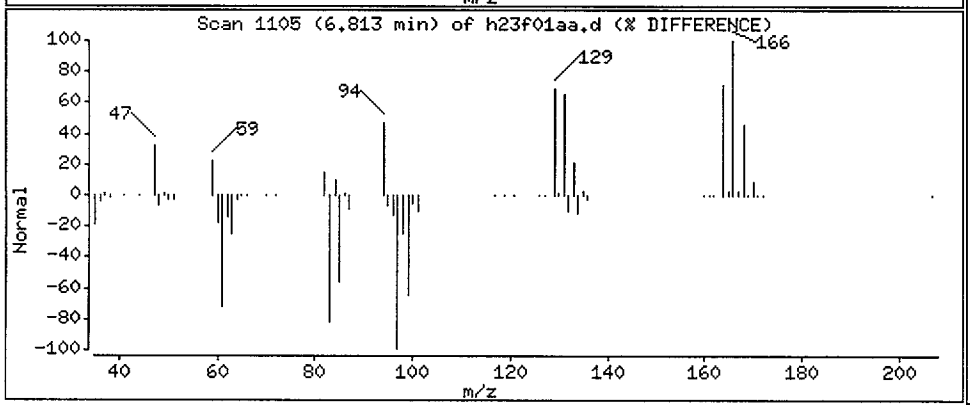
56 1,1,2-Trichloroethane

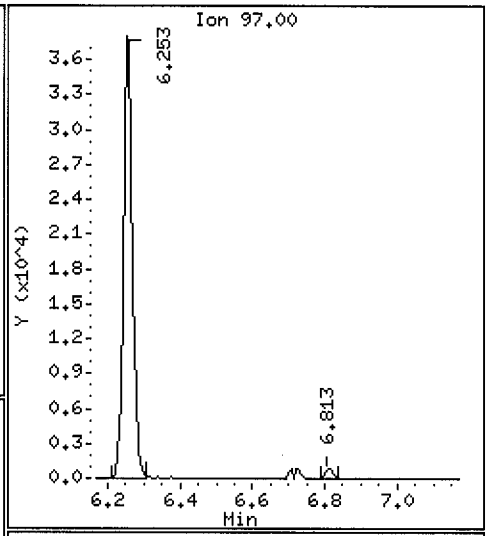
Concentration: 0.0034329 ug

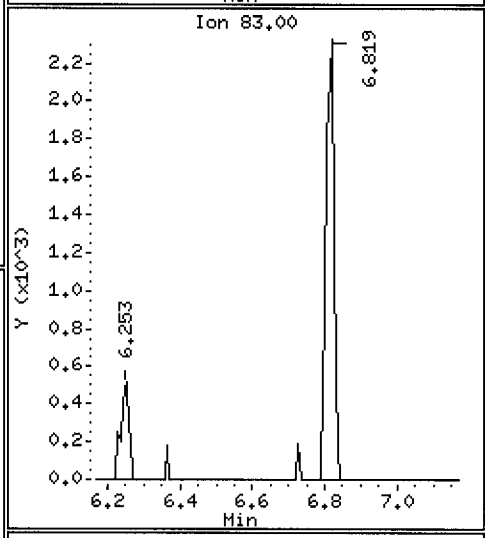


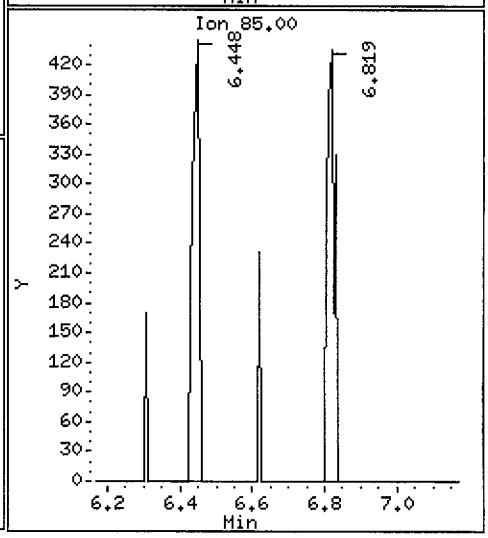












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

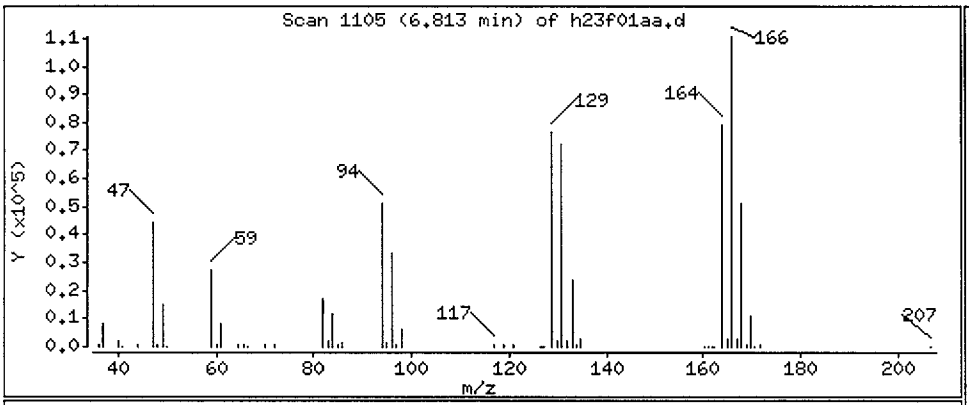
Operator: 22980

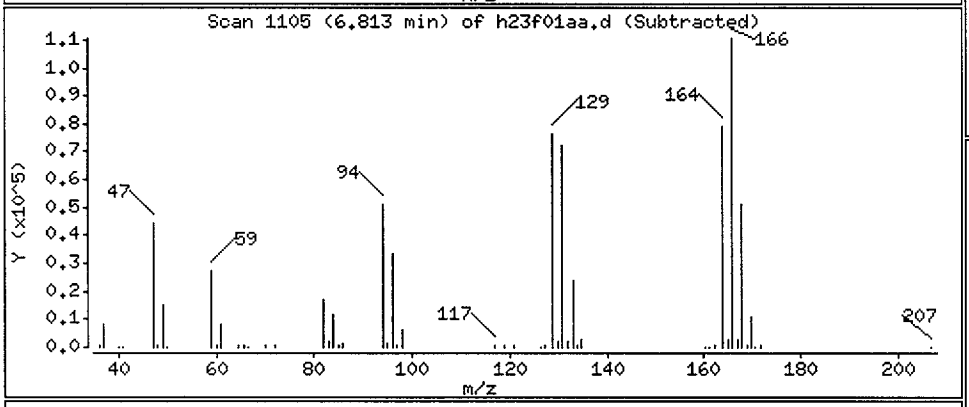
Column phase: J+W 624

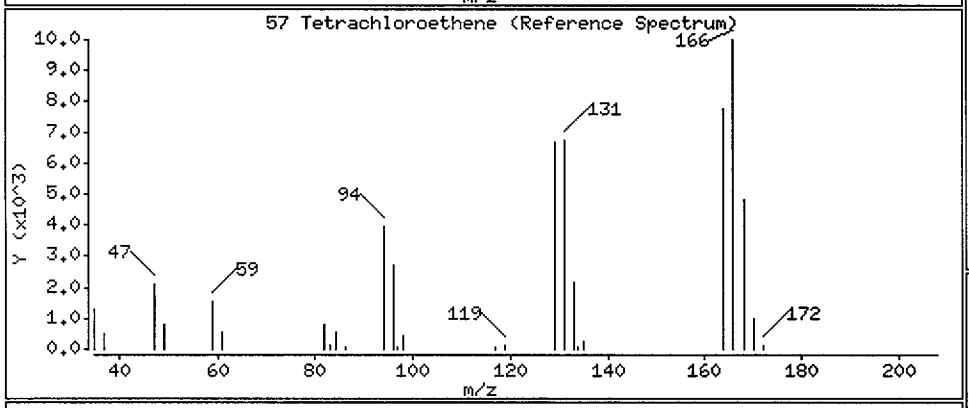
Column diameter: 0.18

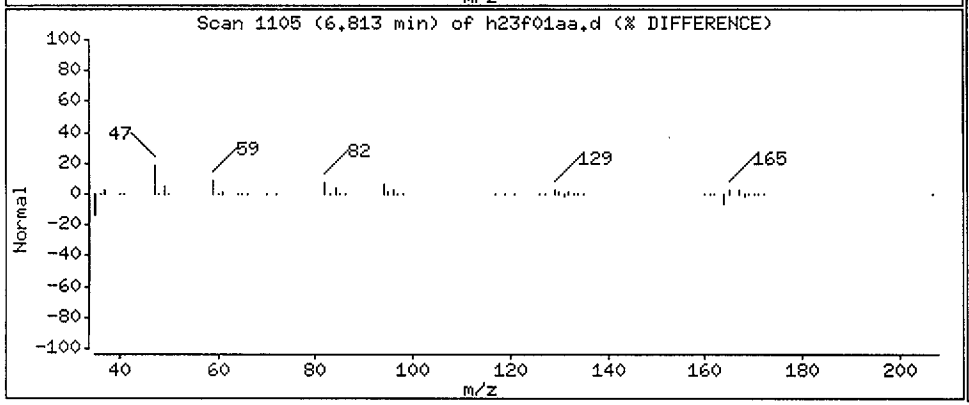
57 Tetrachloroethene

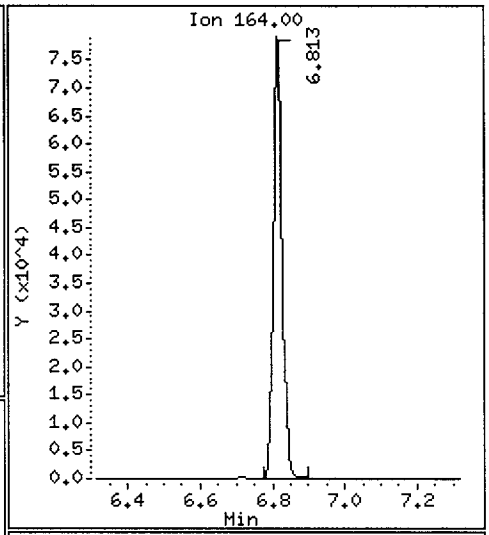
Concentration: 0.14413 ug

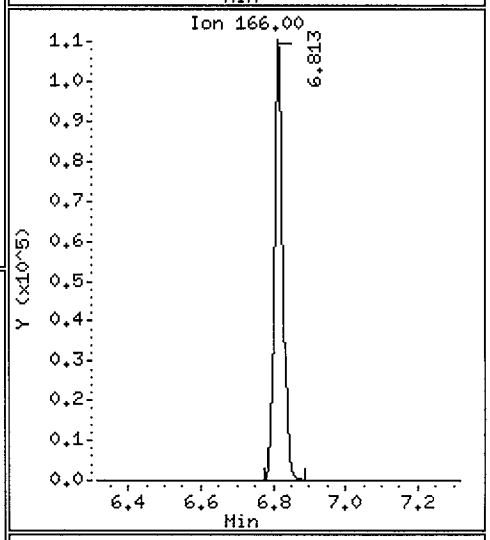


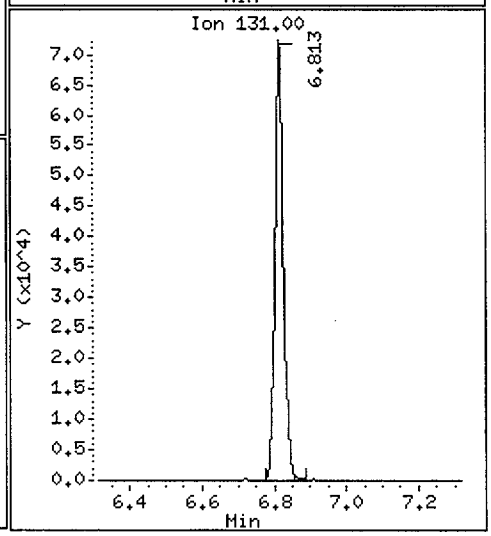












Data File: /chem/gcms/mx.i/X041206.b/h23f01aa.d

Date : 12-APR-2006 11:36

Client ID: REGION 9 AUDIT SAMP

Instrument: mx.i

Sample Info: H23F01AA,1,0,,,

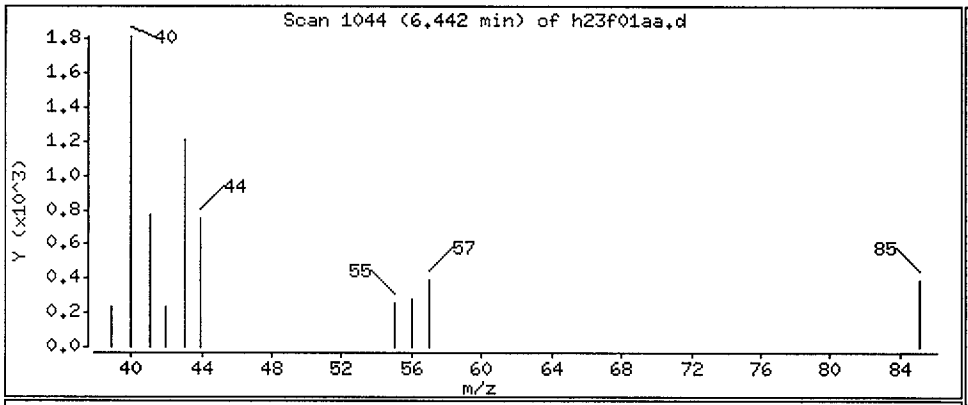
Operator: 22980

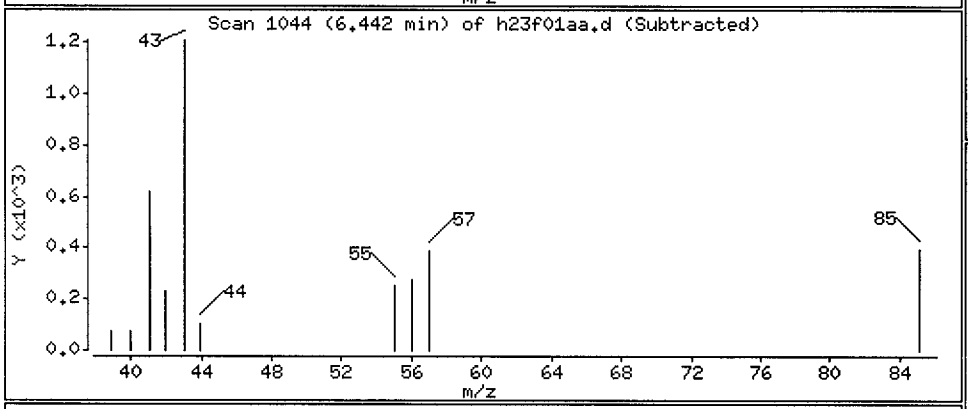
Column phase: J+W 624

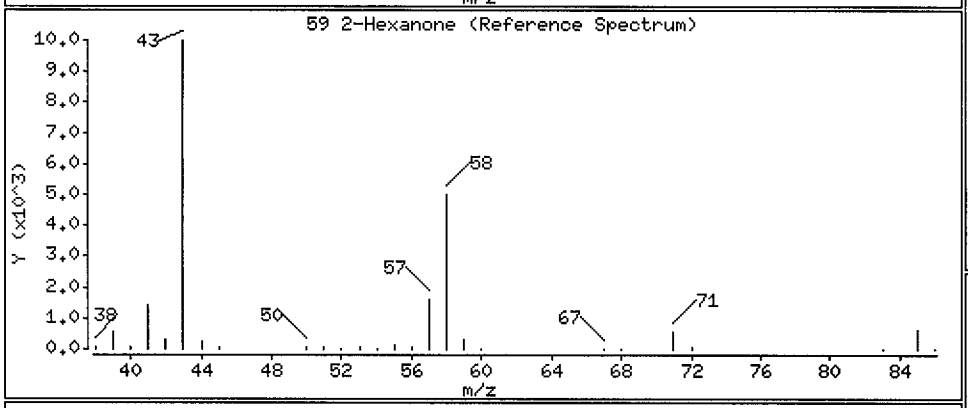
Column diameter: 0.18

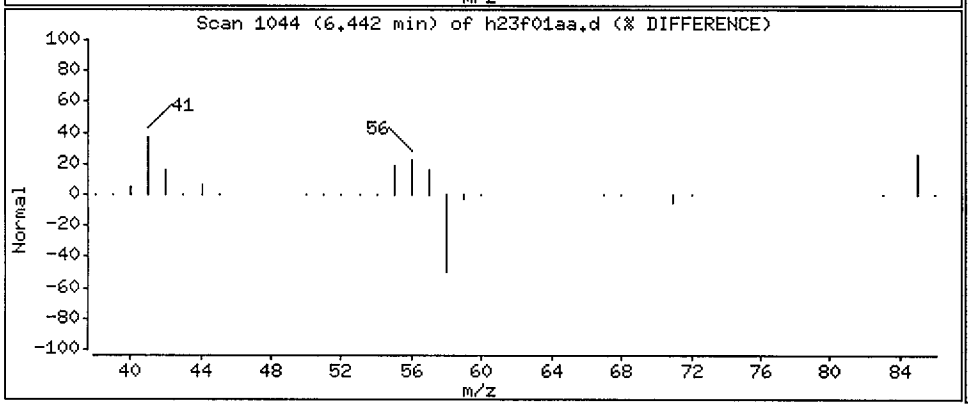
59 2-Hexanone

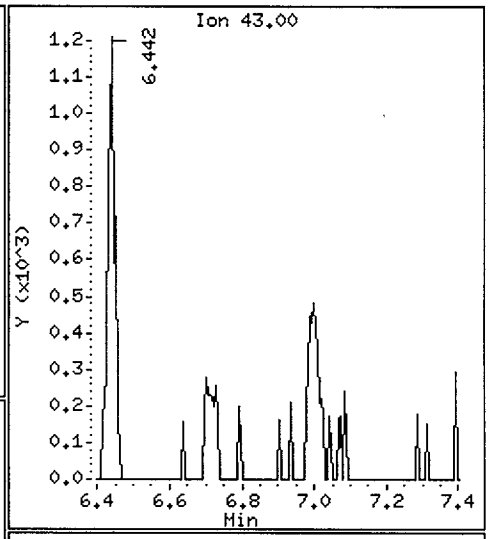
Concentration: 0.012226 ug

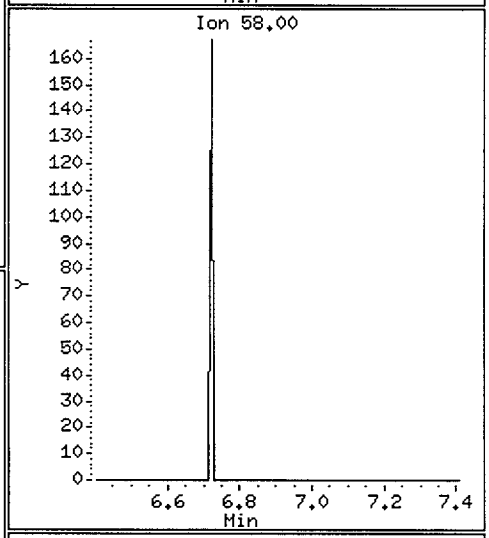


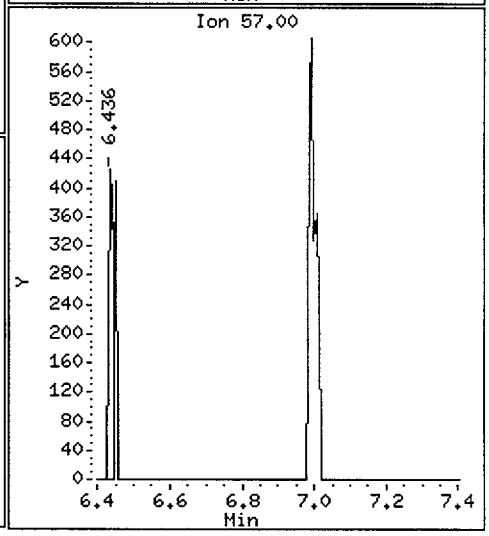












Data File: /var/chem/gcms/mx.i/X041206.b/h23f01aa.d
Report Date: 17-Apr-2006 18:04

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X041206.b/h23f01aa.d
Lab Smp Id: H23F01AA Client Smp ID: REGION 9 AUDIT SAMP
Inj Date : 12-APR-2006 11:36
Operator : 22980 Inst ID: mx.i
Smp Info : H23F01AA,1,0,,,
Misc Info : X041206,8260B_LM,focus.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 17-Apr-2006 17:12 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Standards Data

STL Volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method: 8260B – KNOX-MS-0015, Rev. 8

Analysis Date:	2/15/06	Instrument:	MX	ICAL Batch/Scan Name:	X021506I	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below RL?		✓			✓
6. Was the primary ion used for all compounds?		✓		☐ *Secondary ion used due to interferences for:* _____	✓
7. Do the average RFs for SPCCs meet minimum RF?		✓			✓
8. Are %RSD <30% for CCCs?		✓			✓
9. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
10. If curves were used, is correlation coefficient ≥0.990?		✓			✓
11. At least 6 consecutive points used for quadratic curves?	✓				NA
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous?	✓			DW 2.16.06	NA
13. Is the "Y" intercept less than the RL for each curve?		X	(*)	2-propanol (*)	No
14. Were all peaks identified automatically? *If not, list analytes*: _____		✓			✓
15. If manual integrations were performed, are they clearly identified, initialed, dated and reason given? DW 2.16.06	X	✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
16. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
17. Elution order checked on isomeric pairs?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
19. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, & curves, followed by Quan reports, chromatograms & manual integrations, in order from low to high standard.		✓			✓
20. Was the 2nd source calibration verification standard within 70-130% and are results in ICAL folder? (25% DOD)		✓			✓

Analyst: MT	Date: 2/15/06	2nd Level Reviewer : DW	Date: 2/16/06
Comments:		**Comments:**	
		• t-butanol upper range dropped from 4000 to 2000	
		(*) • curve not valid for 2 propanol @ intercept > RL.	

STL Knoxville GC/MS Volatiles Run Log - Instrument MX

Target Batch	X0215060I	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXX
QuantIMS Batch	–	–	–	XXXXXXXXXXXXXX	XXXXXXXX
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	water
SOP#	KNOXMS0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID 0.969mL	VOA 6439
Intitial Cal Batch	X0215060I	XXXXXXXXX	XXXXXXXXX	SS Amt/ID ↓	↓
CCAL IS Areas	1323492	226173	260091	Heated?	Y (N)

☑ Date/Time Verified Preventive Maintenance Performed ☐ NA or ☑ see Maint. log book 1808 pg 57

Lot	Lab File ID	Time	ALS #	Archon Method/ Dil. Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments	Total Volume
Tune	BFXB15	1339	–	–	1	–	NA	MT	1ml VOA 6445	
ICAL 0.2	ICCXB158	1405	18	20/1(*)		25mL			VOA 6445 3ml, VOA 6447 100ml, VOA 6443 1ml	500mL
0.32	7	1431	19						4.8ml 100ml 1.6ml	↓
01	1	1458	20						2ml 20ml 1ml	100mL
02	2	1524	21	↓					4ml 20ml 2ml	↓
10	3	1551	22	21/1					– – 5ml	50mL
20	4	1617	23						10ml – 10ml	
40	5	1643	24						30ml – 20ml	
80	6	1710	25						– – 40ml	↓
BLK	BLK1	1736	26							
2nd Source	VCCXB15A	1803	27						10ml VOA 6448 → 50mL	
↓	VCCXB15B	1830	28	↓	↓	↓	↓	↓	↓	

MT 2/15/02

Analyst/Date: MT 2/15/02

(*) no IS/Surr loop used

Data File: /chem/gcms/mx.i/X021506i.b/bfxb15.d

Date : 15-FEB-2006 13:39

Client ID: TUNE

Instrument: mx.i

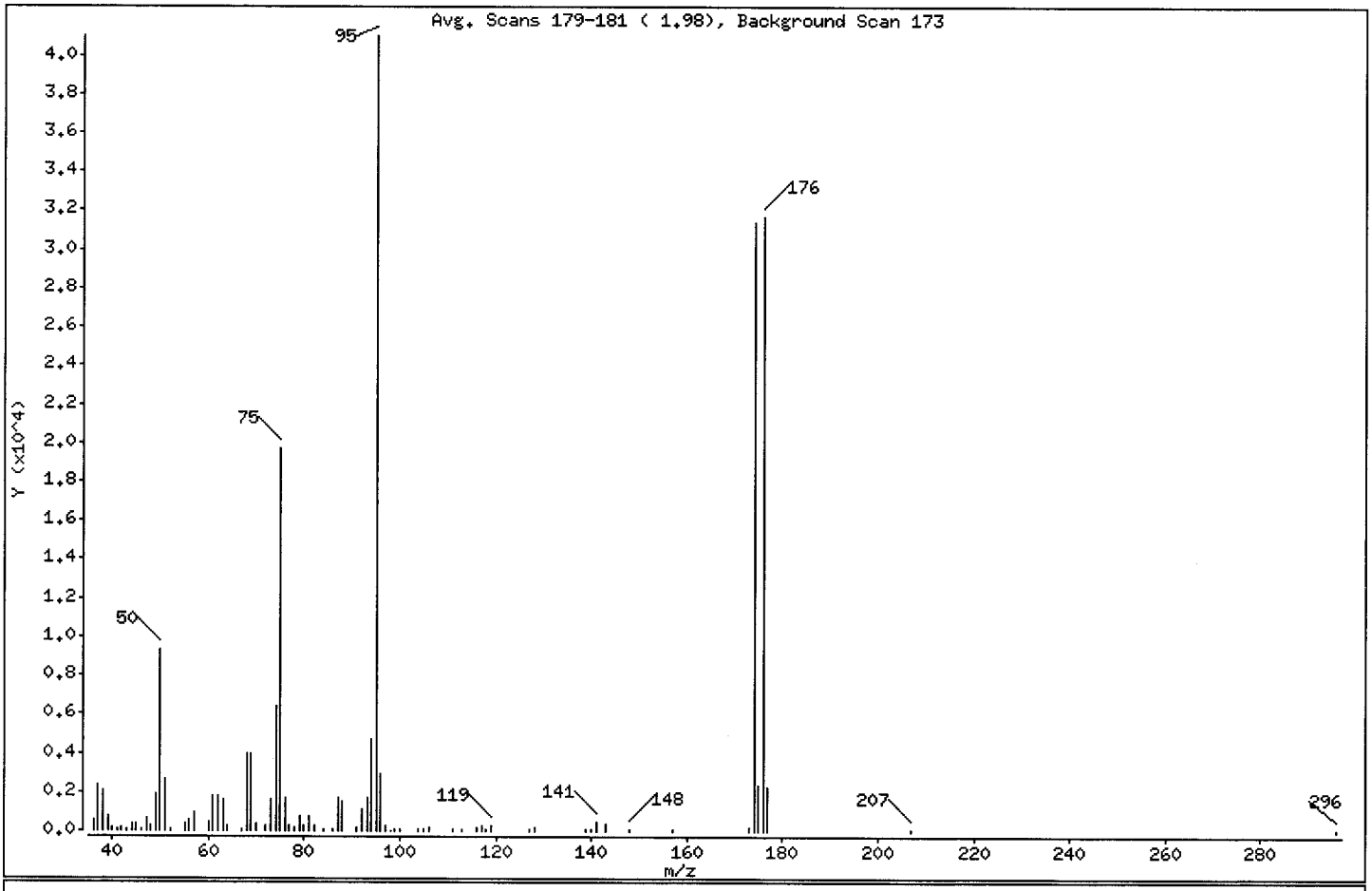
Sample Info: BFXB15,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.65
75	30.00 - 60.00% of mass 95	48.13
96	5.00 - 9.00% of mass 95	7.04
173	Less than 2.00% of mass 174	0.53 (0.69)
174	50.00 - 120.00% of mass 95	76.61
175	5.00 - 9.00% of mass 174	5.79 (7.56)
176	95.00 - 101.00% of mass 174	77.35 (100.96)
177	5.00 - 9.00% of mass 176	5.60 (7.24)

Data File: /chem/gcms/mx.i/X021506i.b/bfxb15.d

Date : 15-FEB-2006 13:39

Client ID: TUNE

Instrument: mx.i

Sample Info: BFXB15,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

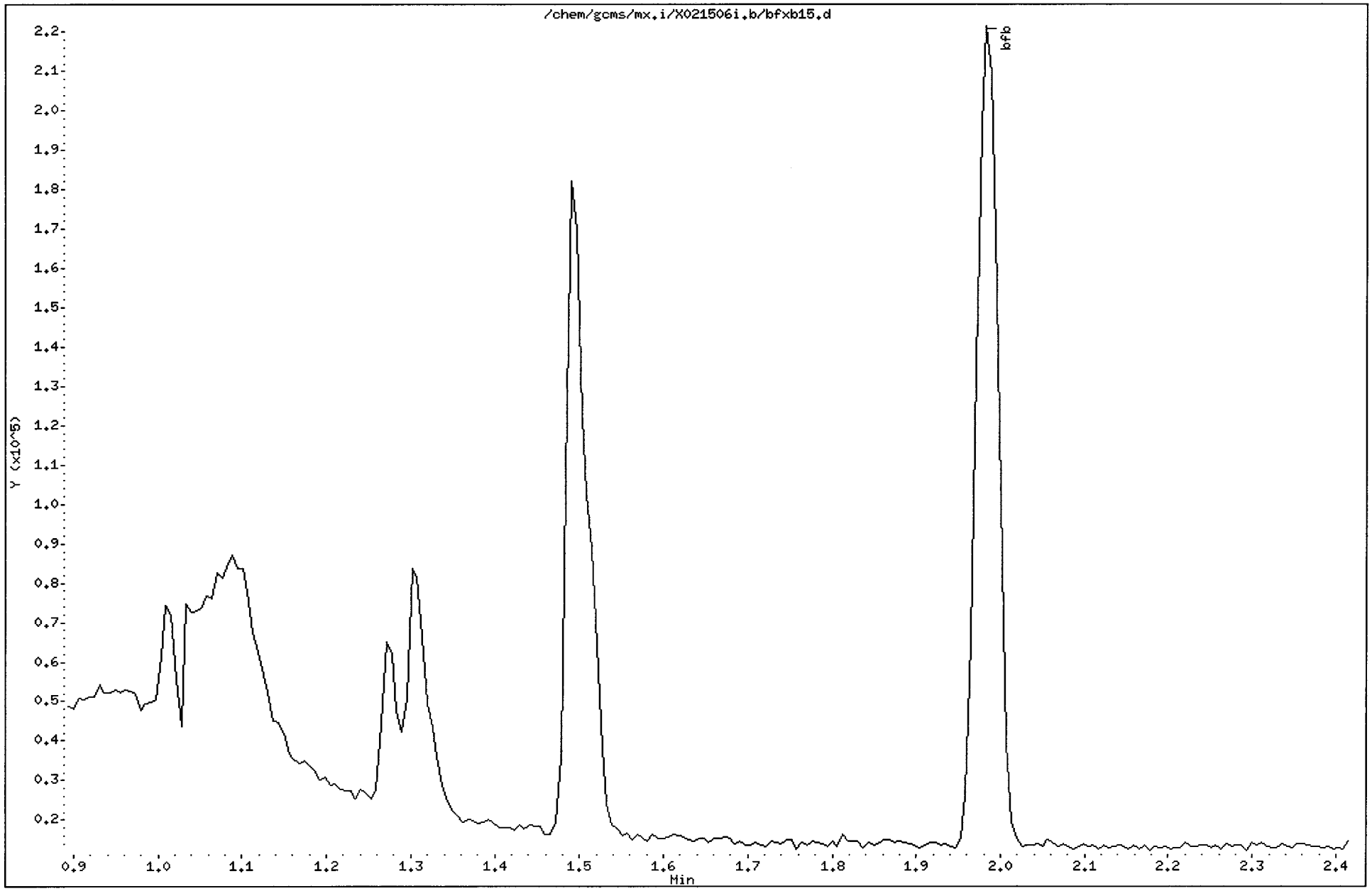
Data File: bfxb15.d
Spectrum: Avg. Scans 179-181 (1.98), Background Scan 173
Location of Maximum: 95.00
Number of points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	576	60.00	501	84.00	77	117.00	262
37.00	2347	61.00	1779	86.00	59	118.00	128
38.00	2045	62.00	1823	87.00	1696	119.00	270
39.00	714	63.00	1598	88.00	1499	127.00	60
40.00	221	64.00	268	91.00	230	128.00	149
41.00	49	67.00	90	92.00	1095	139.00	73
42.00	185	68.00	3952	93.00	1696	140.00	55
43.00	92	69.00	3920	94.00	4738	141.00	453
44.00	362	70.00	384	95.00	40992	143.00	379
45.00	369	72.00	275	96.00	2887	148.00	121
46.00	65	73.00	1649	97.00	238	157.00	58
47.00	696	74.00	6368	98.00	26	173.00	216
48.00	286	75.00	19728	99.00	73	174.00	31400
49.00	1902	76.00	1656	100.00	52	175.00	2373
50.00	9284	77.00	315	104.00	53	176.00	31704
51.00	2677	78.00	234	105.00	54	177.00	2296
52.00	126	79.00	775	106.00	142	207.00	108
55.00	345	80.00	302	111.00	92	296.00	114
56.00	532	81.00	738	113.00	69		
57.00	970	82.00	253	116.00	159		

Data File: /chem/gcms/mx.i/X021506i.b/bfxb15.d
Date : 15-FEB-2006 13:39
Client ID: TUNE
Sample Info: BFXB15,1,3,,BFB,TUNE

Instrument: mx.i

Operator: 22980
Column phase: J & W 624
Column diameter: 0.18



Report Date : 16-Feb-2006 09:51

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-FEB-2006 14:31
End Cal Date : 15-FEB-2006 17:10
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Cal Date : 15-Feb-2006 18:20 tillerm

Calibration File Names:
Level 1: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Level 2: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Level 3: /chem/gcms/mx.i/X021506I.b/icxb153.d
Level 4: /chem/gcms/mx.i/X021506I.b/icxb154.d
Level 5: /chem/gcms/mx.i/X021506I.b/icxb155.d
Level 6: /chem/gcms/mx.i/X021506I.b/icxb156.d
Level 7: /var/chem/gcms/mx.i/X021506I.b/icxb157.d

Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
M 8 1,2-Dichloroethene (total)	0.23592 +++++	0.22579	0.24962	0.25099	0.24842	0.23565	AVRG		0.24107		4.20958
M 9 Xylene (total)	2.41524 +++++	2.31606	2.44240	2.25772	2.35050	2.26245	AVRG		2.34073		3.28776
10 Dichlorodifluoromethane	0.32044 +++++	0.28540	0.32047	0.32948	0.32317	0.32041	AVRG		0.31656		4.94835
11 Chloromethane (spcc)	0.46109 0.45938	0.43252	0.48011	0.47536	0.48218	0.47053	AVRG		0.46588		3.67378

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Vinyl Chloride (ccc)	0.36230 0.29497	0.34449	0.38684	0.38552	0.39112	0.37949	AVRG		0.36353		9.46744
13 *1,3-Butadiene	0.30765 0.23352	0.28309	0.32178	0.33041	0.33646	0.32408	AVRG		0.30528		11.86794
14 Bromomethane	0.12683 +++++	0.12169	0.14113	0.14509	0.15554	0.15508	AVRG		0.14089		10.03782
15 Chloroethane	0.20590 +++++	0.18274	0.20465	0.20039	0.20596	0.19839	AVRG		0.19967		4.43473
16 *Vinyl Bromide	0.16952 +++++	0.15970	0.17746	0.17878	0.18153	0.17572	AVRG		0.17378		4.59520
17 Trichlorofluoromethane	0.39468 +++++	0.35357	0.41123	0.40969	0.41371	0.40337	AVRG		0.39771		5.70275
18 *2-Chloropropane	0.60692 +++++	0.56060	0.63784	0.63182	0.64798	0.62883	AVRG		0.61900		5.11471

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Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.3200 Level 7										
19 1,1-Dichloroethene (ccc)	0.20048	0.18476	0.21051	0.20892	0.21599	0.20748					
	0.18103						AVRG		0.20131		6.67008
20 *Freon 113	0.17719	0.15951	0.18139	0.18585	0.18403	0.18376					
	+++++						AVRG		0.17862		5.50234
21 Acetone	0.01432	0.01429	0.01310	0.01459	0.01370	0.01498					
	+++++						AVRG		0.01416		4.74169
22 *Iodomethane	0.23811	0.23116	0.26262	0.26070	0.26313	0.25748					
	+++++						AVRG		0.25220		5.52177
23 Carbon Disulfide	0.75668	0.70969	0.81862	0.81077	0.82177	0.77867					
	0.63860						AVRG		0.76211		8.87133
24 *2-propanol	4631	8699	15388	41939	85359	191082					
	+++++						LINR	1.23728	0.00179		0.99412
25 *Acetonitrile	0.00272	0.00286	0.00226	0.00271	0.00280	0.00288					
	+++++						AVRG		0.00271		8.46063

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Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.3200 Level 7										
26 Methylene Chloride	0.15903	0.14617	0.15656	0.15576	0.15576	0.15435					
	+++++						AVRG		0.15461		2.85253
27 *t-butanol	14811	36667	87462	278246	534916	+++++					
	10349						LINR	2.25565	0.00204		0.99017
28 *Acrylonitrile	0.01935	0.01892	0.01934	0.02035	0.02034	0.02092					
	+++++						AVRG		0.01987		3.91192
29 trans-1,2-Dichloroethene	0.24154	0.22798	0.25924	0.26403	0.26124	0.24281					
	0.21123						AVRG		0.24401		7.96947
30 *MTBE	0.21359	0.20966	0.22042	0.23092	0.22425	0.22320					
	0.18827						AVRG		0.21576		6.49028
31 *Hexane	0.50005	0.45224	0.49311	0.51414	0.49312	0.50154					
	+++++						AVRG		0.49237		4.28804
32 1,1-Dichloroethane (spcc)	0.46849	0.46427	0.51129	0.50557	0.51369	0.50556					
	0.42011						AVRG		0.48414		7.18847

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
33 *Vinyl Acetate	0.01111 +++++	0.01156	0.01094	0.01194	0.01143	0.01127	AVRG		0.01138		3.11151
34 2,2-Dichloropropane	0.44452 0.39500	0.41775	0.46894	0.45760	0.45706	0.43179	AVRG		0.43895		5.91018
35 cis 1,2-Dichloroethene	0.23030 0.20669	0.22360	0.24000	0.23795	0.23560	0.22850	AVRG		0.22895		4.95980
36 2-Butanone	0.02168 +++++	0.02343	0.01970	0.02210	0.02214	0.02351	AVRG		0.02209		6.30659
37 Bromochloromethane	0.05774 +++++	0.05545	0.06197	0.06247	0.06216	0.06143	AVRG		0.06020		4.82987
38 *THF	0.01342 +++++	0.01400	0.01215	0.01369	0.01365	0.01432	AVRG		0.01354		5.53464
39 Chloroform (ccc)	0.38503 0.34294	0.36653	0.39270	0.39438	0.39494	0.38400	AVRG		0.38007		5.02349

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Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.3200 Level 7										
40 1,1,1-Trichloroethane	0.43900	0.40137	0.45173	0.44055	0.44813	0.42851					
	0.36514						AVRG		0.42492		7.34283
41 Carbon Tetrachloride	0.35647	0.33984	0.38986	0.38627	0.38575	0.36467					
	0.28996						AVRG		0.35897		9.90359
42 1,1-Dichloropropene	0.40838	0.38009	0.42795	0.41900	0.41991	0.39795					
	0.31819						AVRG		0.39592		9.55472
43 Benzene	1.04068	0.98879	1.04526	1.02599	1.01821	0.95968					
	1.01071						AVRG		1.01276		2.97226
44 1,2-Dichloroethane	0.16614	0.16653	0.17534	0.17643	0.17849	0.17633					
	0.15373						AVRG		0.17043		5.20694
45 Trichloroethene	0.27310	0.25942	0.29067	0.28484	0.28649	0.27676					
	0.23097						AVRG		0.27175		7.64373
46 1,2-Dichloropropane (ccc)	0.21202	0.20190	0.21903	0.22139	0.22149	0.21836					
	0.20134						AVRG		0.21365		4.11855

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
47 *Methyl Methacrylate	0.06747	0.06515	0.06475	0.06638	0.06644	0.06898					
	+++++						AVRG		0.06653		2.33032
48 Dibromomethane	0.05506	0.05525	0.05733	0.05977	0.05935	0.05980					
	0.05041						AVRG		0.05671		6.05991
49 Bromodichloromethane	0.20557	0.20297	0.21469	0.22004	0.22002	0.21694					
	0.20503						AVRG		0.21218		3.50431
50 *2-Chloroethylvinylether	0.04128	0.04202	0.04504	0.04867	0.04837	0.05002					
	+++++						AVRG		0.04590		8.02715
51 cis-1,3-Dichloropropene	0.24601	0.24255	0.25667	0.26012	0.26068	0.25554					
	0.21782						AVRG		0.24849		6.10878
52 4-Methyl-2-pentanone	0.05366	0.05284	0.05145	0.05383	0.05344	0.05636					
	0.04879						AVRG		0.05291		4.41339
53 Toluene (ccc)	6.10342	5.71326	6.08871	6.03477	5.85875	5.58594					
	5.61839						AVRG		5.85760		3.79876

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
54 trans-1,3-Dichloropropene	1.02636	1.01404	1.04736	1.07037	1.04395	1.04093					
	0.94346						AVRG		1.02664		3.96126
55 *Ethyl Methacrylate	0.57797	0.53912	0.52425	0.53141	0.51415	0.53531					
	+++++						AVRG		0.53704		4.08124
56 1,1,2-Trichloroethane	0.45825	0.46567	0.45902	0.46990	0.45729	0.45560					
	0.47322						AVRG		0.46271		1.48802
57 Tetrachloroethene	1.30879	1.23298	1.33399	1.32919	1.30217	1.25421					
	1.04879						AVRG		1.25859		7.93075
58 1,3-Dichloropropane	0.88454	0.87403	0.88847	0.92234	0.88292	0.87155					
	0.85461						AVRG		0.88264		2.35663
59 2-Hexanone	0.20499	0.20281	0.17972	0.19395	0.19083	0.20214					
	+++++						AVRG		0.19574		4.90306
60 Chlorodibromomethane	0.57001	0.57132	0.59809	0.61804	0.59894	0.60412					
	0.45247						AVRG		0.57328		9.77423

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
61 1,2-Dibromoethane	0.43479	0.42264	0.44454	0.45040	0.43405	0.43966					
	0.39035						AVRG		0.43092		4.62254
62 Chlorobenzene (spcc)	3.09162	3.02095	3.09346	3.10397	3.01669	2.92850					
	2.79328						AVRG		3.00692		3.74705
63 1,1,1,2-Tetrachloroethane	0.98812	0.98189	1.02262	1.04355	1.00383	0.98580					
	0.90152						AVRG		0.98962		4.52586
64 Ethylbenzene (ccc)	2.13369	2.04159	2.16360	2.12240	2.09660	2.00766					
	1.91066						AVRG		2.06803		4.24895
65 m&p-Xylene	2.56408	2.40917	2.56492	2.37005	2.47172	2.36840					
	2.21699						AVRG		2.42362		5.07663
66 o-Xylene	2.11756	2.12983	2.19735	2.03304	2.10808	2.05054					
	1.90781						AVRG		2.07775		4.44335
67 Styrene	3.12741	3.05907	3.08274	2.88467	2.96884	2.87255					
	2.85341						AVRG		2.97838		3.76133

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
68 Bromoform (spcc)	0.26603 +++++	0.27364	0.27471	0.28404	0.28168	0.28232	AVRG		0.27707		2.48252
69 Isopropylbenzene	7.06863 6.04598	6.66859	7.08613	6.73739	6.75717	6.28301	AVRG		6.66384		5.75713
70 *cis-1,4-dichloro-2-butene	0.13149 +++++	0.12652	0.12469	0.12950	0.12697	0.12594	AVRG		0.12752		1.96819
71 Bromobenzene	0.98490 0.86698	0.95362	0.95672	0.96178	0.94262	0.92278	AVRG		0.94134		4.01677
72 1,1,2,2-Tetrachloroethane(sp)	0.43098 0.37030	0.38896	0.34839	0.35749	0.34180	0.33374	AVRG		0.36738		9.13914
73 1,2,3-Trichloropropane	0.10906 +++++	0.09378	0.08729	0.10026	0.08543	0.08431	AVRG		0.09335		10.45046
74 *trans-1,4-dichloro-2-butene	0.10743 +++++	0.09704	0.09709	0.10606	0.09516	0.09285	AVRG		0.09927		6.05337

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Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.3200 Level 7										
75 n-Propylbenzene	7.41919	6.78813	7.25621	7.00227	6.94825	6.45493					
	6.28401						AVRG		6.87900		5.92337
76 2-Chlorotoluene	3.71032	3.53176	3.64993	3.64812	3.52222	3.36470					
	3.28419						AVRG		3.53018		4.45885
77 1,3,5-Trimethylbenzene	4.04794	3.82351	3.95106	3.32826	3.78179	3.65520					
	3.43024						AVRG		3.71686		7.09293
78 4-Chlorotoluene	3.95304	3.78388	3.87261	3.69540	3.69792	3.54497					
	3.50942						AVRG		3.72246		4.35534
79 tert-Butylbenzene	4.15593	3.90072	4.16955	3.99966	4.00119	3.77449					
	3.46796						AVRG		3.92421		6.21275
80 1,2,4-Trimethylbenzene	3.52651	3.31682	3.34935	2.80891	3.27402	3.20810					
	3.10080						AVRG		3.22636		7.00001
81 sec-Butylbenzene	6.12682	5.64542	6.05720	5.70539	5.80019	5.46803					
	5.09512						AVRG		5.69974		6.17190

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Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.3200 Level 7										
82 1,3-Dichlorobenzene	1.79227	1.69649	1.72250	1.69832	1.68639	1.67257					
	1.52531						AVRG		1.68484		4.77783
83 p-Isopropyltoluene	4.91282	4.54525	4.82311	4.25166	4.70989	4.47521					
	4.10978						AVRG		4.54682		6.47553
84 1,4-Dichlorobenzene	1.60495	1.56446	1.54466	1.51041	1.52490	1.50466					
	1.42695						AVRG		1.52586		3.64602
85 1,2-Dichlorobenzene	1.30397	1.22582	1.22848	1.20762	1.20427	1.19944					
	1.09639						AVRG		1.20943		5.06071
86 n-Butylbenzene	4.40088	4.04829	4.25310	3.51334	4.12360	3.96382					
	3.68759						AVRG		3.99866		7.76274
87 1,2-Dibromo-3-chloropropane	0.04862	0.04808	0.04512	0.05479	0.04997	0.05229					
	+++++						AVRG		0.04981		6.79522
88 1,2,4-Trichlorobenzene	0.64635	0.61922	0.59133	0.48394	0.60527	0.63076					
	0.58717						AVRG		0.59486		8.95269

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Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89 Hexachlorobutadiene	1.00870	0.92701	1.00903	0.98899	1.00456	0.96408					
	+++++						AVRG		0.98373		3.31831
90 Napthalene	0.47793	0.45356	0.42334	0.34221	0.43737	0.46893					
	+++++						AVRG		0.43389		11.32988
91 1,2,3-Trichlorobenzene	0.42104	0.38309	0.38499	0.31044	0.39478	0.42020					
	0.37389						AVRG		0.38406		9.69173
M 92 *1,4-dichloro-2-butene(total)	0.12713	0.11924	0.11817	0.12033	0.11817	0.11656					
	+++++						AVRG		0.11993		3.11997
$ 4 Dibromofluoromethane	0.16816	0.17065	0.16860	0.17223	0.17045	+++++					
	+++++						AVRG		0.17002		0.97329
$ 5 1,2-Dichloroethane-d4	0.13308	0.13146	0.12825	0.13497	0.13488	+++++					
	+++++						AVRG		0.13253		2.10738
$ 6 Toluene-d8	5.06240	4.87481	4.89939	4.92413	4.71936	+++++					
	+++++						AVRG		4.89602		2.50448

Report Date : 16-Feb-2006 09:51

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-FEB-2006 14:31
End Cal Date : 15-FEB-2006 17:10
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Cal Date : 15-Feb-2006 18:20 tillerm

Compound	1 Level 1 0.3200 Level 7	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 7 4-Bromofluorobenzene	1.19617 +++++	1.15216	1.17594	1.28255	1.12149	+++++	AVRG		1.18566		5.13604

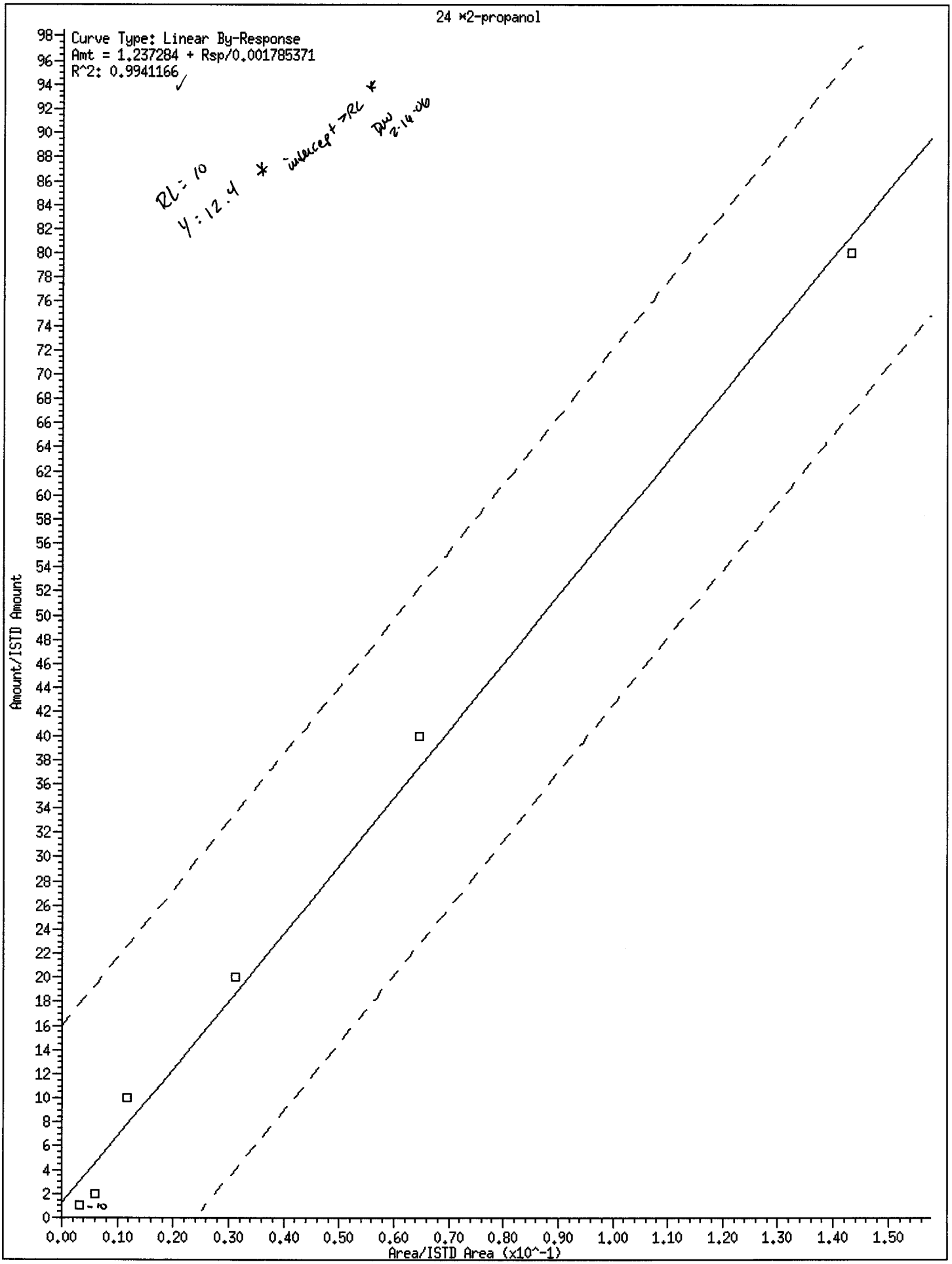
Report Date : 16-Feb-2006 09:51

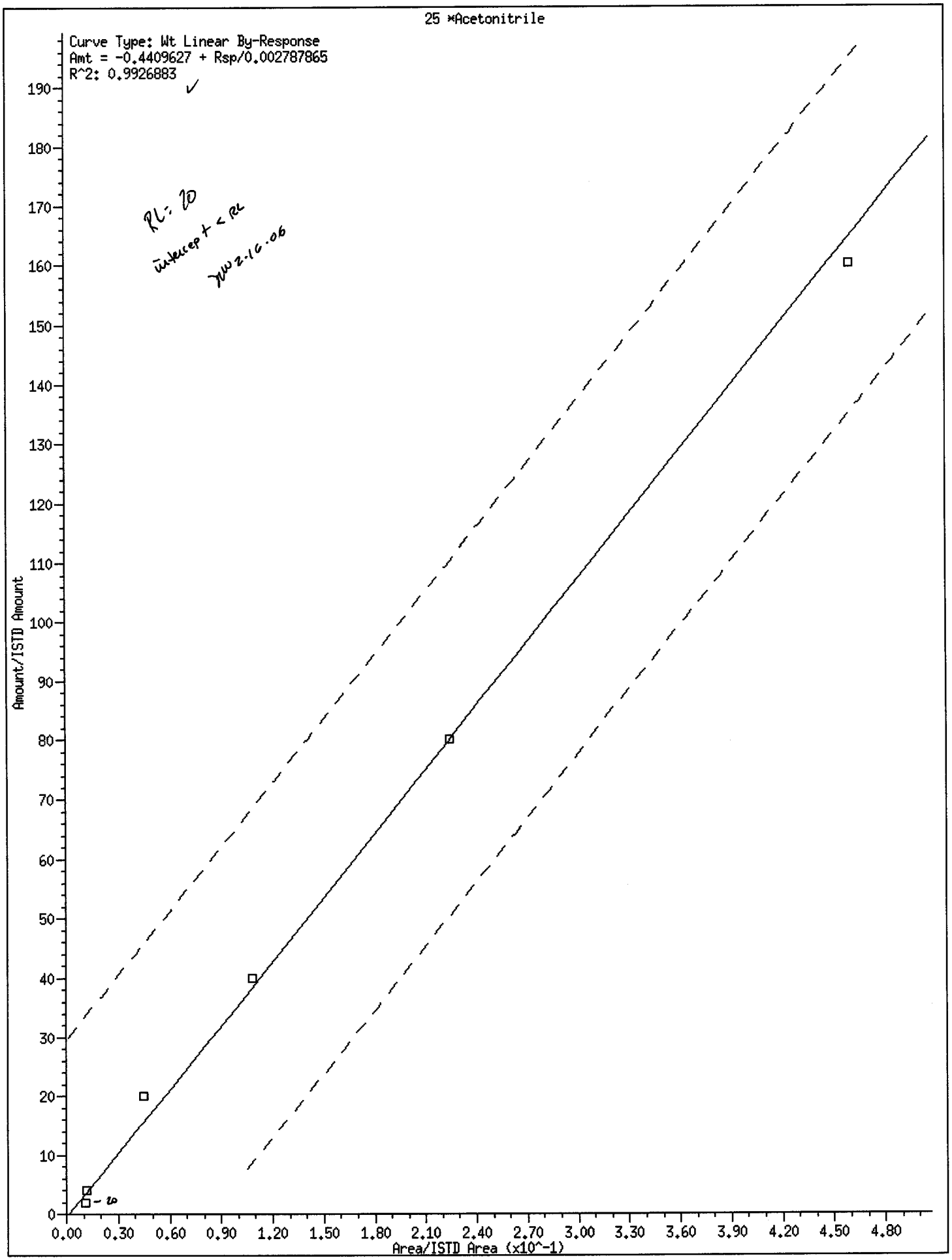
STL Knoxville

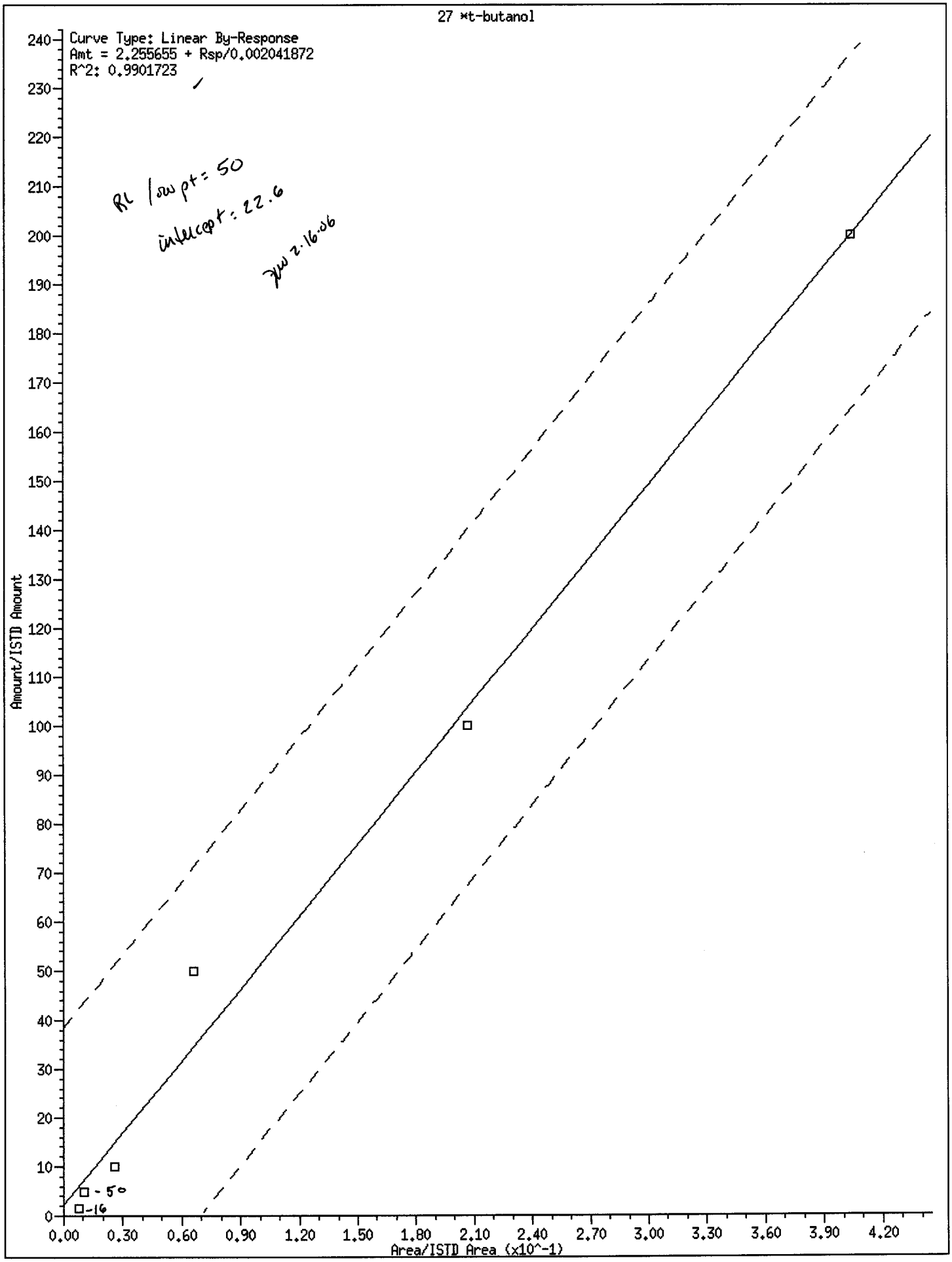
INITIAL CALIBRATION DATA

Start Cal Date : 15-FEB-2006 14:31
End Cal Date : 15-FEB-2006 17:10
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Cal Date : 15-Feb-2006 18:20 tillerm

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response


24 *2-propanol
Curve Type: Linear By-Response
Amt = 1.237284 + Rsp/0.001785371
R^2: 0.9941166
RL = 10
y = 12.4 * intercept → RL *
DW 2.14.00
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


25 ×Acetonitrile
Curve Type: Wt Linear By-Response
Amt = -0.4409627 + Rsp/0.002787865
R^2: 0.9926883
RL: 20
intercept < RL
JW 2-16-06
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50
4.80


27 *t-butanol
Curve Type: Linear By-Response
Amt = 2.255655 + Rsp/0.002041872
R^2: 0.9901723
RL low pt = 50
intercept: 22.6
JW 2.16.06
-50
-16
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Lab Smp Id: ICCXB157 Client Smp ID: VSTD0.32
Inj Date : 15-FEB-2006 14:31
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB157,1,1,7,,VSTD0.32
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:31 Cal File: icxb157.d
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.853	4.853	(1.000)	1321744	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.585	(1.000)	219836	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.748	(1.000)	250994	10.0000	
$ 4 Dibromofluoromethane	113	4.275	4.269	(0.881)	10280	0.32000	0.45986
$ 5 1,2-Dichloroethane-d4	65	4.555	4.555	(0.939)	8171	0.32000	0.47217
$ 6 Toluene-d8	98	6.252	6.252	(0.824)	50822	0.32000	0.46746
$ 7 4-Bromofluorobenzene	95	8.874	8.874	(0.826)	14793	0.32000	0.50170
M 8 1,2-Dichloroethene (total)	96				17677	0.32000	0.58143
M 9 Xylene (total)	106				44613	0.32000	0.87417
10 Dichlorodifluoromethane	85	1.130	1.136	(0.233)	10849	0.32000	0.26584
11 Chloromethane (spcc)	50	1.264	1.264	(0.260)	19430	0.32000	0.32077
12 Vinyl Chloride (ccc)	62	1.343	1.343	(0.277)	12476	0.32000	0.27191
13 *1,3-Butadiene	39	1.373	1.373	(0.283)	9877	0.32000	0.26083
14 Bromomethane	94	1.586	1.592	(0.327)	4943	0.32000	0.28795
15 Chloroethane	64	1.678	1.678	(0.346)	8046	0.32000	0.30782

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Report Date: 15-Feb-2006 18:11

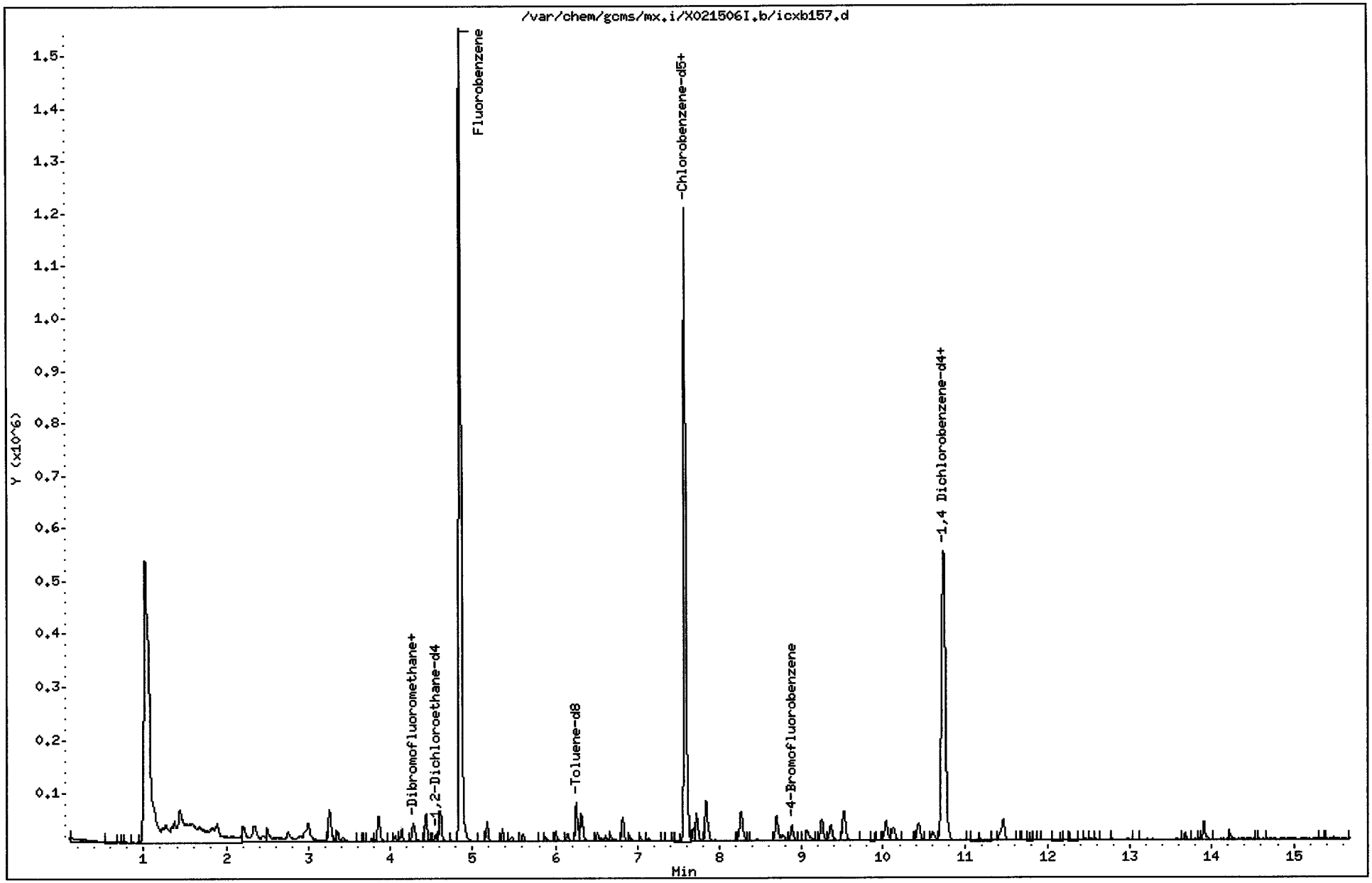
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.824	1.830	(0.376)	5511	0.32000	0.24690
17 Trichlorofluoromethane	101	1.891	1.890	(0.390)	12668	0.32000	0.26278
18 *2-Chloropropane	43	2.213	2.213	(0.456)	20850	0.32000	0.26214
19 1,1-Dichloroethene (ccc)	96	2.335	2.335	(0.481)	7657	0.32000	0.29832
20 *Freon 113	151	2.353	2.353	(0.485)	5312	0.32000	0.24976
21 Acetone	43	2.377	2.377	(0.490)	6586	0.32000	3.5842
22 *Iodomethane	142	2.450	2.450	(0.505)	8585	0.32000	0.26626
23 Carbon Disulfide	76	2.499	2.499	(0.515)	27010	0.32000	0.27959
24 *2-propanol	45	2.535	2.529	(0.522)	5825	~~0.32000~~ 3.2	17.731) NA TW 2-16-06
25 *Acetonitrile	40	2.621	2.614	(0.540)	4082	~~0.32000~~ 6.4	8.7971)
26 Methylene Chloride	84	2.754	2.754	(0.568)	6160	0.32000	0.30280
27 *t-butanol	59	2.900	2.894	(0.598)	10349	16.0000	39.386
28 *Acrylonitrile	53	2.961	2.961	(0.610)	15891	66.4000	6.2616
29 trans-1,2-Dichloroethene	96	2.992	2.998	(0.616)	8934	0.32000	0.28764
30 *MTBE	73	3.016	3.010	(0.621)	7963	0.32000	0.28968
31 *Hexane	57	3.253	3.259	(0.670)	34442	0.64000	0.54086
32 1,1-Dichloroethane (spcc)	63	3.351	3.357	(0.690)	17769	0.32000	0.28847
33 *Vinyl Acetate	86	3.424	3.417	(0.705)	890	0.64000	0.60141
34 2,2-Dichloropropane	77	3.862	3.855	(0.796)	16707	0.32000	0.29290
35 cis 1,2-Dichloroethene	96	3.855	3.855	(0.794)	8742	0.32000	0.29379
36 2-Butanone	43	3.874	3.874	(0.798)	5005	0.32000	1.7529
37 Bromochloromethane	128	4.062	4.056	(0.837)	2147	0.32000	0.27831
38 *THF	42	4.111	4.105	(0.847)	4016	1.28000	2.3036
39 Chloroform (ccc)	83	4.141	4.135	(0.853)	14505	0.32000	0.29517
40 1,1,1-Trichloroethane	97	4.293	4.293	(0.885)	15444	0.32000	0.28204
41 Carbon Tetrachloride	117	4.439	4.439	(0.915)	12264	0.32000	0.26972
42 1,1-Dichloropropene	75	4.439	4.433	(0.915)	13458	0.32000	0.26540
43 Benzene	78	4.610	4.610	(0.950)	42749	0.32000	0.31667
44 1,2-Dichloroethane	62	4.616	4.616	(0.951)	6502	0.32000	0.29736
45 Trichloroethene	130	5.176	5.176	(1.066)	9769	0.32000	0.28046
46 1,2-Dichloropropane (ccc)	63	5.364	5.358	(1.105)	8516	0.32000	0.30892
47 *Methyl Methacrylate	41	5.480	5.480	(1.129)	3589	0.32000	0.41278
48 Dibromomethane	93	5.455	5.461	(1.124)	2132	0.32000	0.28866
49 Bromodichloromethane	83	5.601	5.607	(1.154)	8672	0.32000	0.31583
50 *2-Chloroethylvinylether	63	5.881	5.881	(1.212)	3140	0.64000	0.55539
51 cis-1,3-Dichloropropene	75	6.003	6.003	(1.237)	9213	0.32000	0.28953
52 4-Methyl-2-pentanone	43	6.143	6.143	(1.266)	8254	1.28000	1.2084
53 Toluene (ccc)	91	6.313	6.313	(0.832)	39524	0.32000	0.30572
54 trans-1,3-Dichloropropene	75	6.508	6.502	(0.858)	6637	0.32000	0.29957
55 *Ethyl Methacrylate	69	6.605	6.605	(0.871)	3519	0.32000	0.29263
56 1,1,2-Trichloroethane	97	6.672	6.672	(0.880)	3329	0.32000	0.32859
57 Tetrachloroethene	164	6.818	6.818	(0.899)	7378	0.32000	0.27263
58 1,3-Dichloropropane	76	6.824	6.824	(0.900)	6012	0.32000	0.31242
59 2-Hexanone	43	6.909	6.903	(0.911)	5726	1.28000	1.3300
60 Chlorodibromomethane	129	7.031	7.031	(0.927)	3183	0.32000	0.24973
61 1,2-Dibromoethane	107	7.128	7.134	(0.940)	2746	0.32000	0.28788
62 Chlorobenzene (spcc)	112	7.609	7.609	(1.003)	19650	0.32000	0.29798

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Report Date: 15-Feb-2006 18:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 1,1,1,2-Tetrachloroethane	131	7.688	7.682	(1.014)	6342	0.32000	0.29635
	64 Ethylbenzene (ccc)	106	7.725	7.724	(1.018)	13441	0.32000	0.29646
	65 m&p-Xylene	106	7.840	7.840	(1.034)	31192	0.64000	0.58180
	66 o-Xylene	106	8.254	8.254	(1.088)	13421	0.32000	0.29237
	67 Styrene	104	8.272	8.266	(1.091)	20073	0.32000	0.30129
	68 Bromoform (spcc)	173	8.461	8.461	(1.115)	1537	0.32000	0.25762
	69 Isopropylbenzene	105	8.692	8.692	(1.146)	42532	0.32000	0.28802
	70 *cis-1,4-dichloro-2-butene	88	8.753	8.753	(1.154)	831	0.32000	0.29635
	71 Bromobenzene	156	9.069	9.069	(1.196)	6099	0.32000	0.29497
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.069	9.057	(1.196)	2605	0.32000	0.30436
	73 1,2,3-Trichloropropane	110	9.118	9.112	(0.849)	866	0.32000	0.35713
	74 *trans-1,4-dichloro-2-butene	53	9.148	9.142	(0.852)	833	0.32000	0.33043
	75 n-Propylbenzene	91	9.245	9.245	(0.861)	50472	0.32000	0.28988
	76 2-Chlorotoluene	91	9.355	9.355	(0.871)	26378	0.32000	0.29654
	77 1,3,5-Trimethylbenzene	105	9.513	9.519	(0.886)	27551	0.32000	0.28787
	78 4-Chlorotoluene	91	9.519	9.519	(0.886)	28187	0.32000	0.29712
	79 tert-Butylbenzene	119	10.036	10.036	(0.934)	27854	0.32000	0.28284
	80 1,2,4-Trimethylbenzene	105	10.121	10.127	(0.942)	24905	0.32000	0.29857
	81 sec-Butylbenzene	105	10.438	10.438	(0.972)	40923	0.32000	0.28449
	82 1,3-Dichlorobenzene	146	10.608	10.614	(0.988)	12251	0.32000	0.28982
	83 p-Isopropyltoluene	119	10.736	10.736	(0.999)	33009	0.32000	0.28604
	84 1,4-Dichlorobenzene	146	10.791	10.791	(1.005)	11461	0.32000	0.29744
	85 1,2-Dichlorobenzene	146	11.429	11.429	(1.064)	8806	0.32000	0.28910
	86 n-Butylbenzene	91	11.466	11.466	(1.067)	29618	0.32000	0.28799
	88 1,2,4-Trichlorobenzene	180	13.674	13.674	(1.273)	4716	0.32000	0.30362
	89 Hexachlorobutadiene	225	13.905	13.905	(1.294)	7379	0.32000	0.29953
	90 Napthalene	128	13.948	13.942	(1.298)	3968	0.32000	0.35008
	91 1,2,3-Trichlorobenzene	180	14.228	14.228	(1.324)	3003	0.32000	0.30187
M	92 *1,4-dichloro-2-butene(total)	53				1664	0.32000	0.62678

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb157.d
Date : 15-FEB-2006 14:31
Client ID: VSTD0.32
Sample Info: ICCXB157,1,1,7,,VSTD0.32
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Report Date: 16-Feb-2006 09:49

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Lab Smp Id: ICCXB151 Client Smp ID: VSTD01
Inj Date : 15-FEB-2006 14:58
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB151,1,1,1,,VSTD01
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:20 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.853	4.853	(1.000)	1419697	10.0000	
* 2 Chlorobenzene-d5	119	7.584	7.585	(1.000)	236135	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.742	10.748	(1.000)	269853	10.0000	
$ 4 Dibromofluoromethane	113	4.275	4.269	(0.881)	23874	1.00000	0.98907
$ 5 1,2-Dichloroethane-d4	65	4.555	4.555	(0.939)	18893	1.00000	1.0041
$ 6 Toluene-d8	98	6.252	6.252	(0.824)	119541	1.00000	1.0340
$ 7 4-Bromofluorobenzene	95	8.874	8.874	(0.826)	32279	1.00000	1.0089
M 8 1,2-Dichloroethene (total)	96				66987	2.00000	1.9958
M 9 Xylene (total)	106				171097	3.00000	3.1351
10 Dichlorodifluoromethane	85	1.130	1.136	(0.233)	45493	1.00000	1.0123
11 Chloromethane (spcc)	50	1.264	1.264	(0.260)	65461	1.00000	0.98972
12 Vinyl Chloride (ccc)	62	1.343	1.343	(0.277)	51435	1.00000	0.99660
13 *1,3-Butadiene	39	1.373	1.373	(0.283)	43677	1.00000	1.0077
14 Bromomethane	94	1.592	1.592	(0.328)	18006	1.00000	0.90019
15 Chloroethane	64	1.677	1.678	(0.346)	29231	1.00000	1.0312

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Report Date: 16-Feb-2006 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.829	1.830	(0.377)	24066	1.00000	0.97544
17 Trichlorofluoromethane	101	1.890	1.890	(0.389)	56032	1.00000	0.99238
18 *2-Chloropropane	43	2.213	2.213	(0.456)	86164	1.00000	0.98048
19 1,1-Dichloroethene (ccc)	96	2.334	2.335	(0.481)	28462	1.00000	0.99588
20 *Freon 113	151	2.346	2.353	(0.484)	25155	1.00000	0.99196
21 Acetone	43	2.389	2.377	(0.492)	8132	4.00000	4.0442
22 *Iodomethane	142	2.450	2.450	(0.505)	33804	1.00000	0.94413
23 Carbon Disulfide	76	2.498	2.499	(0.515)	107426	1.00000	0.99287
24 *2-propanol	45	2.541	2.529	(0.524)	4631	10.0000	30.643
25 *Acetonitrile	40	2.614	2.614	(0.539)	7736	20.0000	22.776(M)
26 Methylene Chloride	84	2.754	2.754	(0.568)	22578	1.00000	1.0286
27 *t-butanol	59	2.894	2.894	(0.596)	14811	50.0000	73.649
28 *Acrylonitrile	53	2.961	2.961	(0.610)	54929	20.0000	19.472
29 trans-1,2-Dichloroethene	96	2.991	2.998	(0.616)	34292	1.00000	0.98989
30 *MTBE	73	3.009	3.010	(0.620)	30324	1.00000	0.98997
31 *Hexane	57	3.259	3.259	(0.672)	141984	2.00000	2.0312
32 1,1-Dichloroethane (spcc)	63	3.356	3.357	(0.692)	66511	1.00000	0.96767
33 *Vinyl Acetate	86	3.417	3.417	(0.704)	3155	2.00000	1.9536
34 2,2-Dichloropropane	77	3.855	3.855	(0.794)	63108	1.00000	1.0127
35 cis 1,2-Dichloroethene	96	3.861	3.855	(0.796)	32695	1.00000	1.0059
36 2-Butanone	43	3.879	3.874	(0.799)	12314	4.00000	3.9261
37 Bromochloromethane	128	4.056	4.056	(0.836)	8197	1.00000	0.95909
38 *THF	42	4.104	4.105	(0.846)	7623	4.00000	3.9662
39 Chloroform (ccc)	83	4.135	4.135	(0.852)	54663	1.00000	1.0130
40 1,1,1-Trichloroethane	97	4.293	4.293	(0.885)	62324	1.00000	1.0331
41 Carbon Tetrachloride	117	4.439	4.439	(0.915)	50608	1.00000	0.99303
42 1,1-Dichloropropene	75	4.439	4.433	(0.915)	57978	1.00000	1.0315
43 Benzene	78	4.609	4.610	(0.950)	147745	1.00000	1.0276
44 1,2-Dichloroethane	62	4.615	4.616	(0.951)	23587	1.00000	0.97486
45 Trichloroethene	130	5.175	5.176	(1.066)	38772	1.00000	1.0050
46 1,2-Dichloropropane (ccc)	63	5.358	5.358	(1.104)	30100	1.00000	0.99237
47 *Methyl Methacrylate	41	5.479	5.480	(1.129)	9578	1.00000	1.0141
48 Dibromomethane	93	5.461	5.461	(1.125)	7817	1.00000	0.97090
49 Bromodichloromethane	83	5.607	5.607	(1.155)	29185	1.00000	0.96886
50 *2-Chloroethylvinylether	63	5.881	5.881	(1.212)	11721	2.00000	1.7987
51 cis-1,3-Dichloropropene	75	6.003	6.003	(1.237)	34926	1.00000	0.99004
52 4-Methyl-2-pentanone	43	6.142	6.143	(1.266)	30475	4.00000	4.0571
53 Toluene (ccc)	91	6.313	6.313	(0.832)	144123	1.00000	1.0420
54 trans-1,3-Dichloropropene	75	6.507	6.502	(0.858)	24236	1.00000	0.99973
55 *Ethyl Methacrylate	69	6.605	6.605	(0.871)	13648	1.00000	1.0762
56 1,1,2-Trichloroethane	97	6.666	6.672	(0.879)	10821	1.00000	0.99038
57 Tetrachloroethene	164	6.818	6.818	(0.899)	30905	1.00000	1.0399
58 1,3-Dichloropropane	76	6.824	6.824	(0.900)	20887	1.00000	1.0022
59 2-Hexanone	43	6.903	6.903	(0.910)	19362	4.00000	4.1890
60 Chlorodibromomethane	129	7.031	7.031	(0.927)	13460	1.00000	0.99429
61 1,2-Dibromoethane	107	7.134	7.134	(0.941)	10267	1.00000	1.0090
62 Chlorobenzene (spcc)	112	7.609	7.609	(1.003)	73004	1.00000	1.0282

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Report Date: 16-Feb-2006 09:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 1,1,1,2-Tetrachloroethane	131	7.688	7.682	(1.014)	23333	1.00000	0.99849
	64 Ethylbenzene (ccc)	106	7.724	7.724	(1.018)	50384	1.00000	1.0318
	65 m&p-Xylene	106	7.840	7.840	(1.034)	121094	2.00000	2.1159
	66 o-Xylene	106	8.253	8.254	(1.088)	50003	1.00000	1.0192
	67 Styrene	104	8.272	8.266	(1.091)	73849	1.00000	1.0500
	68 Bromoform (spcc)	173	8.460	8.461	(1.115)	6282	1.00000	0.96016
	69 Isopropylbenzene	105	8.691	8.692	(1.146)	166915	1.00000	1.0607
	70 *cis-1,4-dichloro-2-butene	88	8.752	8.753	(1.154)	3105	1.00000	1.0312
	71 Bromobenzene	156	9.069	9.069	(1.196)	23257	1.00000	1.0463
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.063	9.057	(1.195)	10177	1.00000	1.1731
	73 1,2,3-Trichloropropane	110	9.117	9.112	(0.849)	2943	1.00000	1.1682
	74 *trans-1,4-dichloro-2-butene	53	9.142	9.142	(0.851)	2899	1.00000	1.0822
	75 n-Propylbenzene	91	9.245	9.245	(0.861)	200209	1.00000	1.0785
	76 2-Chlorotoluene	91	9.355	9.355	(0.871)	100124	1.00000	1.0510
	77 1,3,5-Trimethylbenzene	105	9.513	9.519	(0.886)	109235	1.00000	1.0891
	78 4-Chlorotoluene	91	9.519	9.519	(0.886)	106674	1.00000	1.0619
	79 tert-Butylbenzene	119	10.036	10.036	(0.934)	112149	1.00000	1.0590
	80 1,2,4-Trimethylbenzene	105	10.127	10.127	(0.943)	95164	1.00000	1.0930
	81 sec-Butylbenzene	105	10.437	10.438	(0.972)	165334	1.00000	1.0749
	82 1,3-Dichlorobenzene	146	10.614	10.614	(0.988)	48365	1.00000	1.0638
	83 p-Isopropyltoluene	119	10.735	10.736	(0.999)	132574	1.00000	1.0805
	84 1,4-Dichlorobenzene	146	10.790	10.791	(1.005)	43310	1.00000	1.0518
	85 1,2-Dichlorobenzene	146	11.435	11.429	(1.065)	35188	1.00000	1.0782
	86 n-Butylbenzene	91	11.465	11.466	(1.067)	118759	1.00000	1.1006
	87 1,2-Dibromo-3-chloropropane	157	12.597	12.591	(1.173)	1312	1.00000	0.97604
	88 1,2,4-Trichlorobenzene	180	13.674	13.674	(1.273)	17442	1.00000	1.0866
	89 Hexachlorobutadiene	225	13.905	13.905	(1.294)	27220	1.00000	1.0254
	90 Napthalene	128	13.948	13.942	(1.298)	12897	1.00000	1.1015
	91 1,2,3-Trichlorobenzene	180	14.227	14.228	(1.325)	11362	1.00000	1.0963
M	92 *1,4-dichloro-2-butene(total)	53				6004	2.00000	2.1134

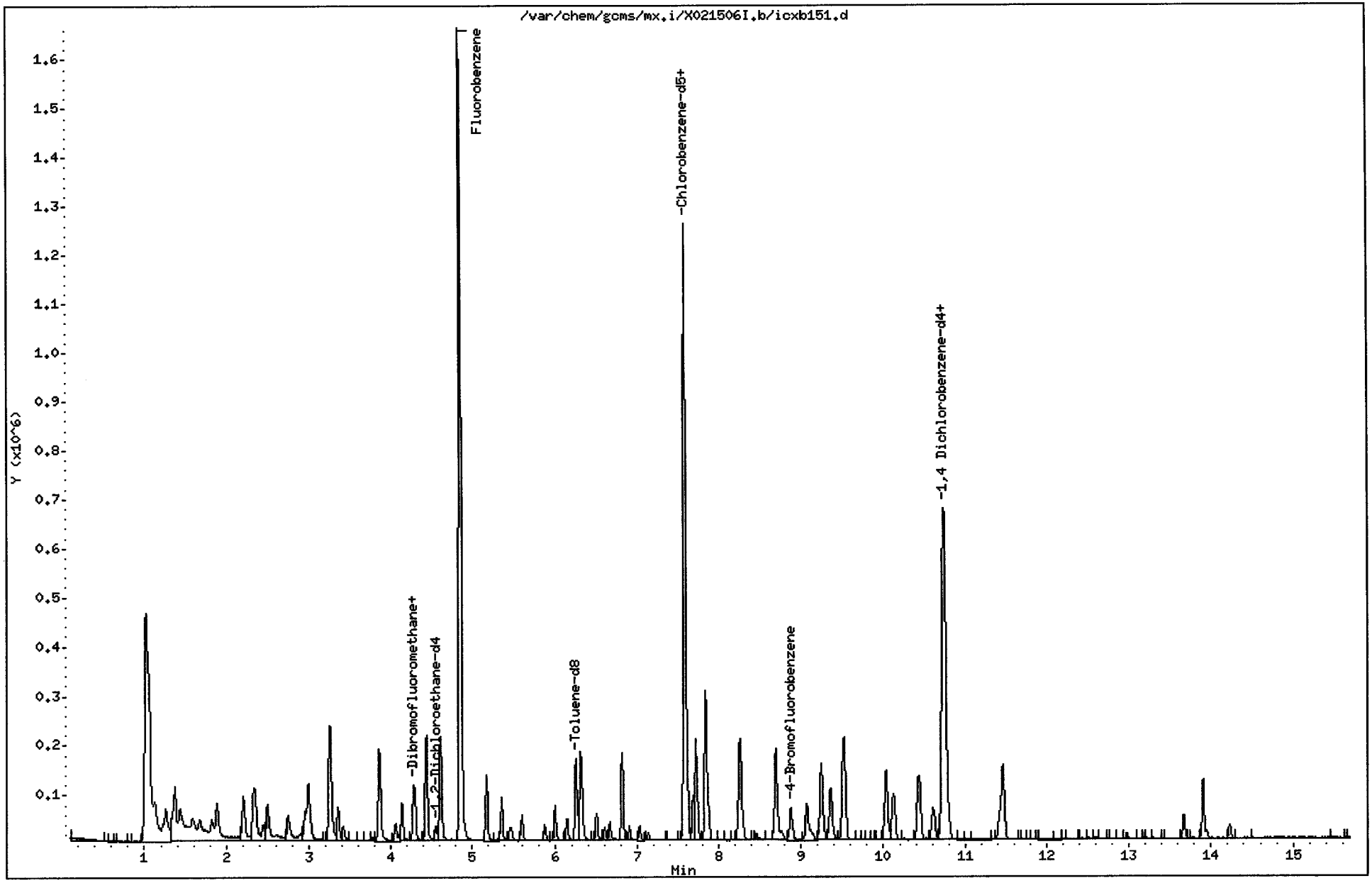
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb151.d
Date : 15-FEB-2006 14:58
Client ID: VSTD01
Sample Info: ICCXB151,1,1,1,,VSTD01
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File Name: icxb151.d

Inj. Date and Time: 15-FEB-2006 14:58

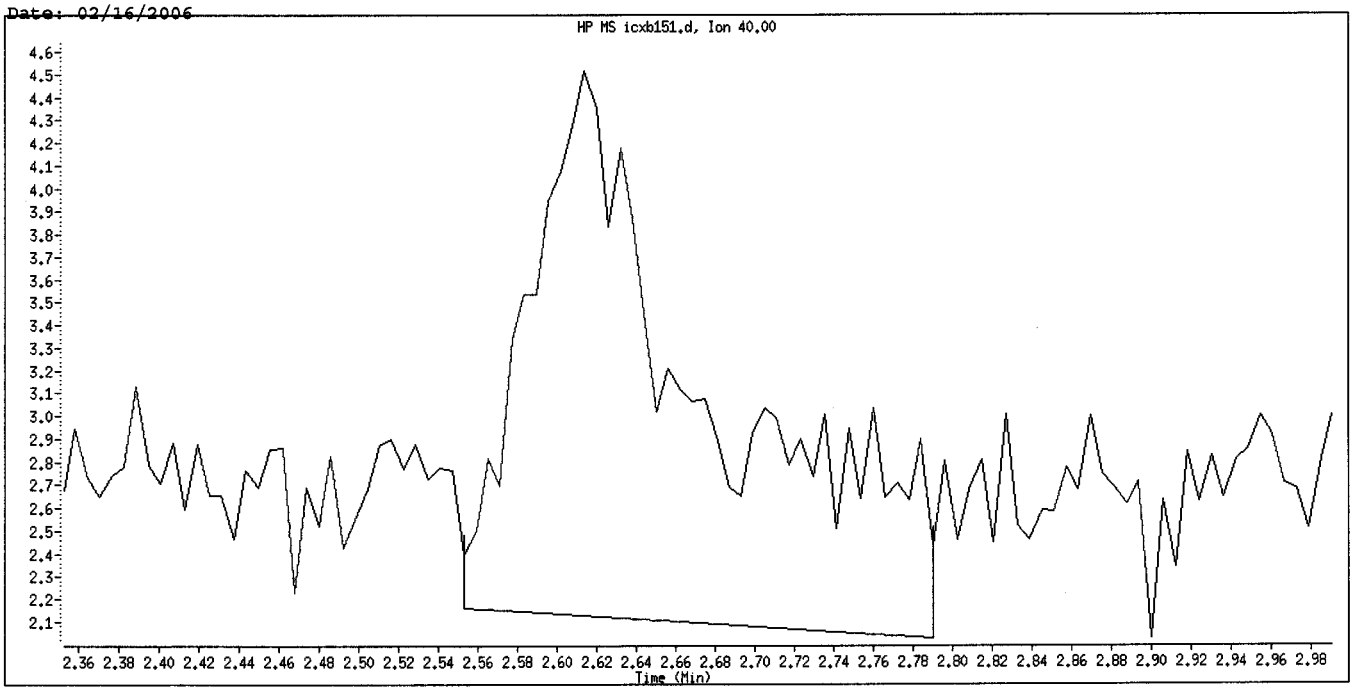
Instrument ID: mx.i

Client ID: VSTD01

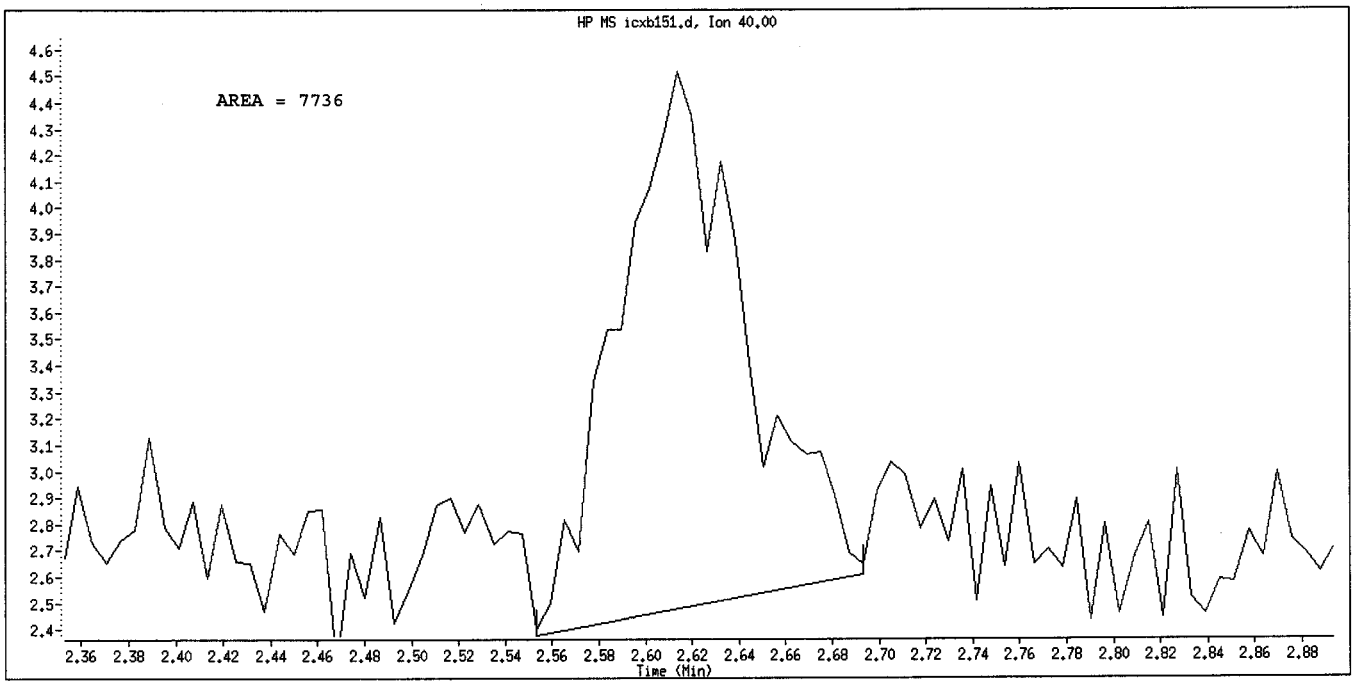
Compound Name: *Acetonitrile

CAS #: 75-05-8

Report Date: 02/16/2006



Original Integration



Manual Integration

Manually Integrated By: wilesd

Manual Integration Reason: Peak Tailing or Fronting

DW 2/16/06

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Lab Smp Id: ICCXB152 Client Smp ID: VSTD002
Inj Date : 15-FEB-2006 15:24
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB152,1,1,2,,VSTD002
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 15:24 Cal File: icxb152.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.852	4.853	(1.000)	1434554	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.585	(1.000)	243200	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.747	10.748	(1.000)	280547	10.0000	
$ 4 Dibromofluoromethane	113	4.274	4.269	(0.881)	48962	2.00000	2.0179
$ 5 1,2-Dichloroethane-d4	65	4.554	4.555	(0.939)	37718	2.00000	2.0081
$ 6 Toluene-d8	98	6.257	6.252	(0.825)	237111	2.00000	1.9714
$ 7 4-Bromofluorobenzene	95	8.873	8.874	(0.826)	64647	2.00000	1.9615
M 8 1,2-Dichloroethene (total)	96				129564	4.00000	3.9344
M 9 Xylene (total)	106				337959	6.00000	5.9913
10 Dichlorodifluoromethane	85	1.135	1.136	(0.234)	81883	2.00000	1.8486
11 Chloromethane (spcc)	50	1.263	1.264	(0.260)	124095	2.00000	1.9137
12 Vinyl Chloride (ccc)	62	1.342	1.343	(0.277)	98839	2.00000	1.9868
13 *1,3-Butadiene	39	1.372	1.373	(0.283)	81223	2.00000	1.9866
14 Bromomethane	94	1.591	1.592	(0.328)	34913	2.00000	1.8738
15 Chloroethane	64	1.676	1.678	(0.345)	52429	2.00000	1.8480

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Report Date: 15-Feb-2006 18:11

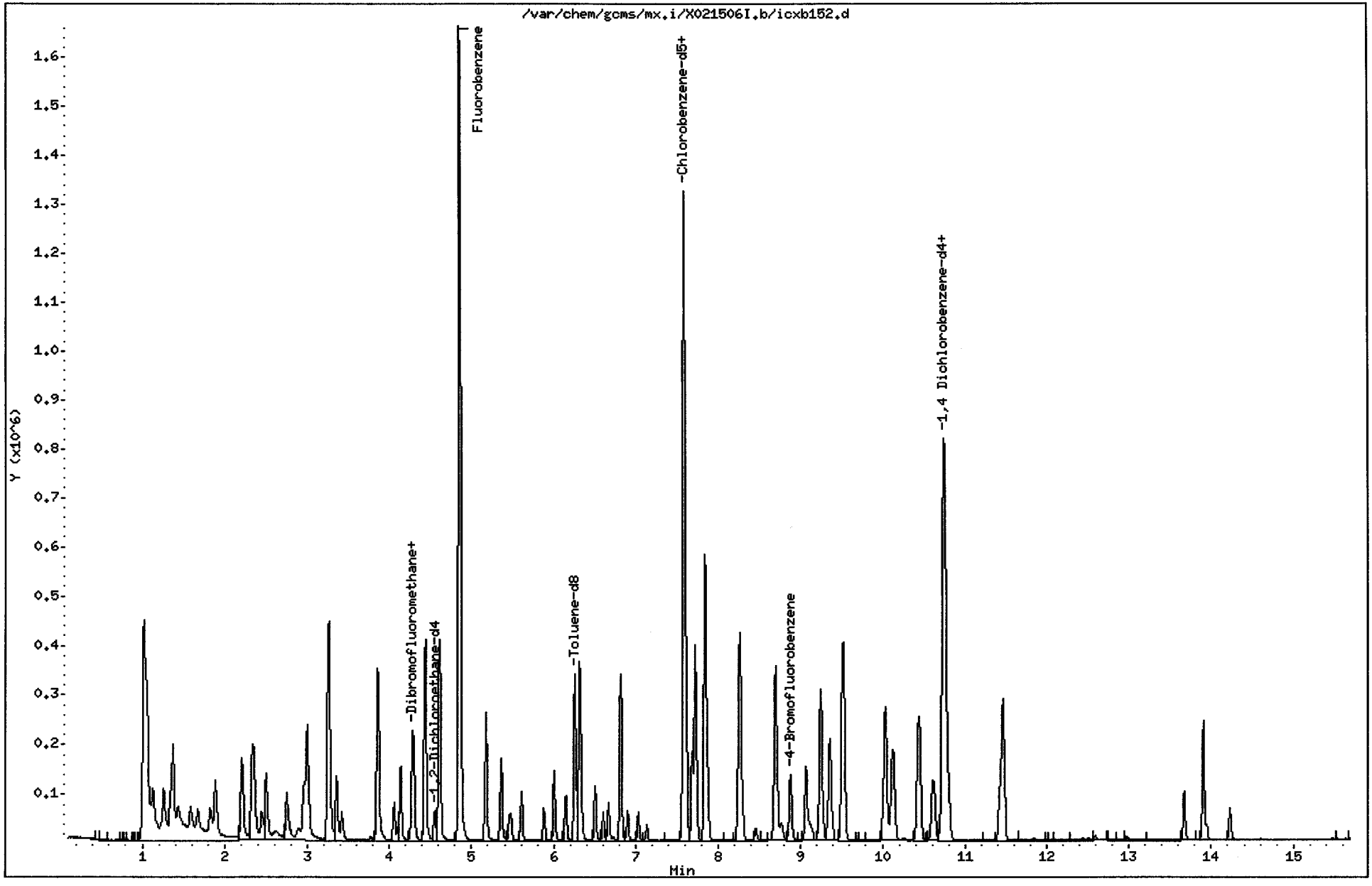
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.828	1.830	(0.377)	45819	2.00000	1.8911
17 Trichlorofluoromethane	101	1.889	1.890	(0.389)	101442	2.00000	1.9387
18 *2-Chloropropane	43	2.212	2.213	(0.456)	160843	2.00000	1.8631
19 1,1-Dichloroethene (ccc)	96	2.333	2.335	(0.481)	53009	2.00000	1.9028
20 *Freon 113	151	2.352	2.353	(0.485)	45765	2.00000	1.9825
21 Acetone	43	2.382	2.377	(0.491)	16401	8.00000	8.2236
22 *Iodomethane	142	2.443	2.450	(0.503)	66321	2.00000	1.8950
23 Carbon Disulfide	76	2.504	2.499	(0.516)	203619	2.00000	1.9420
24 *2-propanol	45	2.565	2.529	(0.529)	8699	20.0000	24.398
25 *Acetonitrile	40	2.619	2.614	(0.540)	16416	40.0000	32.596
26 Methylene Chloride	84	2.753	2.754	(0.567)	41939	2.00000	1.8993
27 *t-butanol	59	2.887	2.894	(0.595)	36667	100.000	128.57
28 *Acrylonitrile	53	2.960	2.961	(0.610)	108571	40.0000	39.416
29 trans-1,2-Dichloroethene	96	2.996	2.998	(0.618)	65411	2.00000	1.9403
30 *MTBE	73	3.009	3.010	(0.620)	60154	2.00000	2.0346
31 *Hexane	57	3.258	3.259	(0.671)	259505	4.00000	3.7546
32 1,1-Dichloroethane (spcc)	63	3.355	3.357	(0.692)	133205	2.00000	1.9924
33 *Vinyl Acetate	86	3.422	3.417	(0.705)	6633	4.00000	4.1272
34 2,2-Dichloropropane	77	3.854	3.855	(0.794)	119857	2.00000	1.9670
35 cis 1,2-Dichloroethene	96	3.860	3.855	(0.796)	64152	2.00000	1.9941
36 2-Butanone	43	3.879	3.874	(0.799)	26887	8.00000	8.6761
37 Bromochloromethane	128	4.061	4.056	(0.837)	15908	2.00000	1.8994
38 *THF	42	4.110	4.105	(0.847)	16071	8.00000	8.4924
39 Chloroform (ccc)	83	4.140	4.135	(0.853)	105161	2.00000	1.9716
40 1,1,1-Trichloroethane	97	4.292	4.293	(0.885)	115157	2.00000	1.9375
41 Carbon Tetrachloride	117	4.438	4.439	(0.915)	97505	2.00000	1.9757
42 1,1-Dichloropropene	75	4.438	4.433	(0.915)	109052	2.00000	1.9814
43 Benzene	78	4.609	4.610	(0.950)	283694	2.00000	1.9362
44 1,2-Dichloroethane	62	4.615	4.616	(0.951)	47778	2.00000	2.0132
45 Trichloroethene	130	5.174	5.176	(1.066)	74430	2.00000	1.9687
46 1,2-Dichloropropane (ccc)	63	5.357	5.358	(1.104)	57928	2.00000	1.9360
47 *Methyl Methacrylate	41	5.479	5.480	(1.129)	18691	2.00000	1.9806
48 Dibromomethane	93	5.460	5.461	(1.125)	15853	2.00000	1.9775
49 Bromodichloromethane	83	5.606	5.607	(1.155)	58234	2.00000	1.9540
50 *2-Chloroethylvinylether	63	5.880	5.881	(1.212)	24111	4.00000	3.9288
51 cis-1,3-Dichloropropene	75	6.008	6.003	(1.238)	69590	2.00000	2.0149
52 4-Methyl-2-pentanone	43	6.148	6.143	(1.267)	60637	8.00000	7.8477
53 Toluene (ccc)	91	6.312	6.313	(0.832)	277893	2.00000	1.9430
54 trans-1,3-Dichloropropene	75	6.507	6.502	(0.858)	49323	2.00000	2.0124
55 *Ethyl Methacrylate	69	6.604	6.605	(0.871)	26223	2.00000	1.9708
56 1,1,2-Trichloroethane	97	6.671	6.672	(0.880)	22650	2.00000	2.0204
57 Tetrachloroethene	164	6.817	6.818	(0.899)	59972	2.00000	2.0030
58 1,3-Dichloropropane	76	6.823	6.824	(0.900)	42513	2.00000	1.9968
59 2-Hexanone	43	6.908	6.903	(0.911)	39459	8.00000	8.2848
60 Chlorodibromomethane	129	7.030	7.031	(0.927)	27789	2.00000	1.9708
61 1,2-Dibromoethane	107	7.133	7.134	(0.941)	20557	2.00000	1.9477
62 Chlorobenzene (spcc)	112	7.608	7.609	(1.003)	146939	2.00000	2.0141

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Report Date: 15-Feb-2006 18:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 1,1,1,2-Tetrachloroethane	131	7.687	7.682	(1.014)	47759	2.00000	2.0172
	64 Ethylbenzene (ccc)	106	7.723	7.724	(1.018)	99303	2.00000	1.9798
	65 m&p-Xylene	106	7.839	7.840	(1.034)	234364	4.00000	3.9514
	66 o-Xylene	106	8.253	8.254	(1.088)	103595	2.00000	2.0399
	67 Styrene	104	8.271	8.266	(1.091)	148793	2.00000	2.0187
	68 Bromoform (spcc)	173	8.459	8.461	(1.116)	13310	2.00000	2.0161
	69 Isopropylbenzene	105	8.691	8.692	(1.146)	324360	2.00000	1.9855
	70 *cis-1,4-dichloro-2-butene	88	8.758	8.753	(1.155)	6154	2.00000	1.9838
	71 Bromobenzene	156	9.068	9.069	(1.196)	46384	2.00000	2.0278
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.062	9.057	(1.195)	18919	2.00000	1.9975
	73 1,2,3-Trichloropropane	110	9.116	9.112	(0.848)	5262	2.00000	1.9395
	74 *trans-1,4-dichloro-2-butene	53	9.141	9.142	(0.851)	5445	2.00000	1.9309
	75 n-Propylbenzene	91	9.244	9.245	(0.860)	380878	2.00000	1.9571
	76 2-Chlorotoluene	91	9.354	9.355	(0.870)	198165	2.00000	1.9939
	77 1,3,5-Trimethylbenzene	105	9.518	9.519	(0.886)	214535	2.00000	2.0054
	78 4-Chlorotoluene	91	9.518	9.519	(0.886)	212311	2.00000	2.0022
	79 tert-Butylbenzene	119	10.041	10.036	(0.934)	218867	2.00000	1.9884
	80 1,2,4-Trimethylbenzene	105	10.126	10.127	(0.942)	186105	2.00000	1.9960
	81 sec-Butylbenzene	105	10.437	10.438	(0.971)	316761	2.00000	1.9701
	82 1,3-Dichlorobenzene	146	10.613	10.614	(0.988)	95189	2.00000	2.0147
	83 p-Isopropyltoluene	119	10.741	10.736	(0.999)	255031	2.00000	1.9772
	84 1,4-Dichlorobenzene	146	10.789	10.791	(1.004)	87781	2.00000	2.0381
	85 1,2-Dichlorobenzene	146	11.434	11.429	(1.064)	68780	2.00000	2.0201
	86 n-Butylbenzene	91	11.471	11.466	(1.067)	227147	2.00000	1.9760
	87 1,2-Dibromo-3-chloropropane	157	12.590	12.591	(1.172)	2698	2.00000	2.0346
	88 1,2,4-Trichlorobenzene	180	13.673	13.674	(1.272)	34744	2.00000	2.0008
	89 Hexachlorobutadiene	225	13.904	13.905	(1.294)	52014	2.00000	1.8888
	90 Napthalene	128	13.941	13.942	(1.297)	25449	2.00000	2.0086
	91 1,2,3-Trichlorobenzene	180	14.233	14.228	(1.324)	21495	2.00000	1.9330
M	92 *1,4-dichloro-2-butene(total)	53				11600	4.00000	3.9147

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb152.d
Date : 15-FEB-2006 15:24
Client ID: VSTD002
Sample Info: ICCXB152,1,1,2,,VSTD002
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Lab Smp Id: ICCXB153 Client Smp ID: VSTD010
Inj Date : 15-FEB-2006 15:51
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB153,1,1,3,,VSTD010
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 15:51 Cal File: icxb153.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.853	4.853	(1.000)	1323492	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.585	(1.000)	226173	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.748	10.748	(1.000)	260091	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.269	(0.880)	223143	10.0000	9.9682
$ 5 1,2-Dichloroethane-d4	65	4.555	4.555	(0.939)	169743	10.0000	9.7955
$ 6 Toluene-d8	98	6.252	6.252	(0.824)	1108110	10.0000	9.9067
$ 7 4-Bromofluorobenzene	95	8.874	8.874	(0.826)	305851	10.0000	10.010
M 8 1,2-Dichloroethene (total)	96				660747	20.0000	21.688
M 9 Xylene (total)	106				1657213	30.0000	31.557
10 Dichlorodifluoromethane	85	1.136	1.136	(0.234)	424133	10.0000	10.379
11 Chloromethane (spcc)	50	1.264	1.264	(0.260)	635423	10.0000	10.604
12 Vinyl Chloride (ccc)	62	1.343	1.343	(0.277)	511985	10.0000	11.163
13 *1,3-Butadiene	39	1.373	1.373	(0.283)	425870	10.0000	11.290
14 Bromomethane	94	1.592	1.592	(0.328)	186783	10.0000	10.644
15 Chloroethane	64	1.678	1.678	(0.346)	270857	10.0000	10.487

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Report Date: 15-Feb-2006 18:11

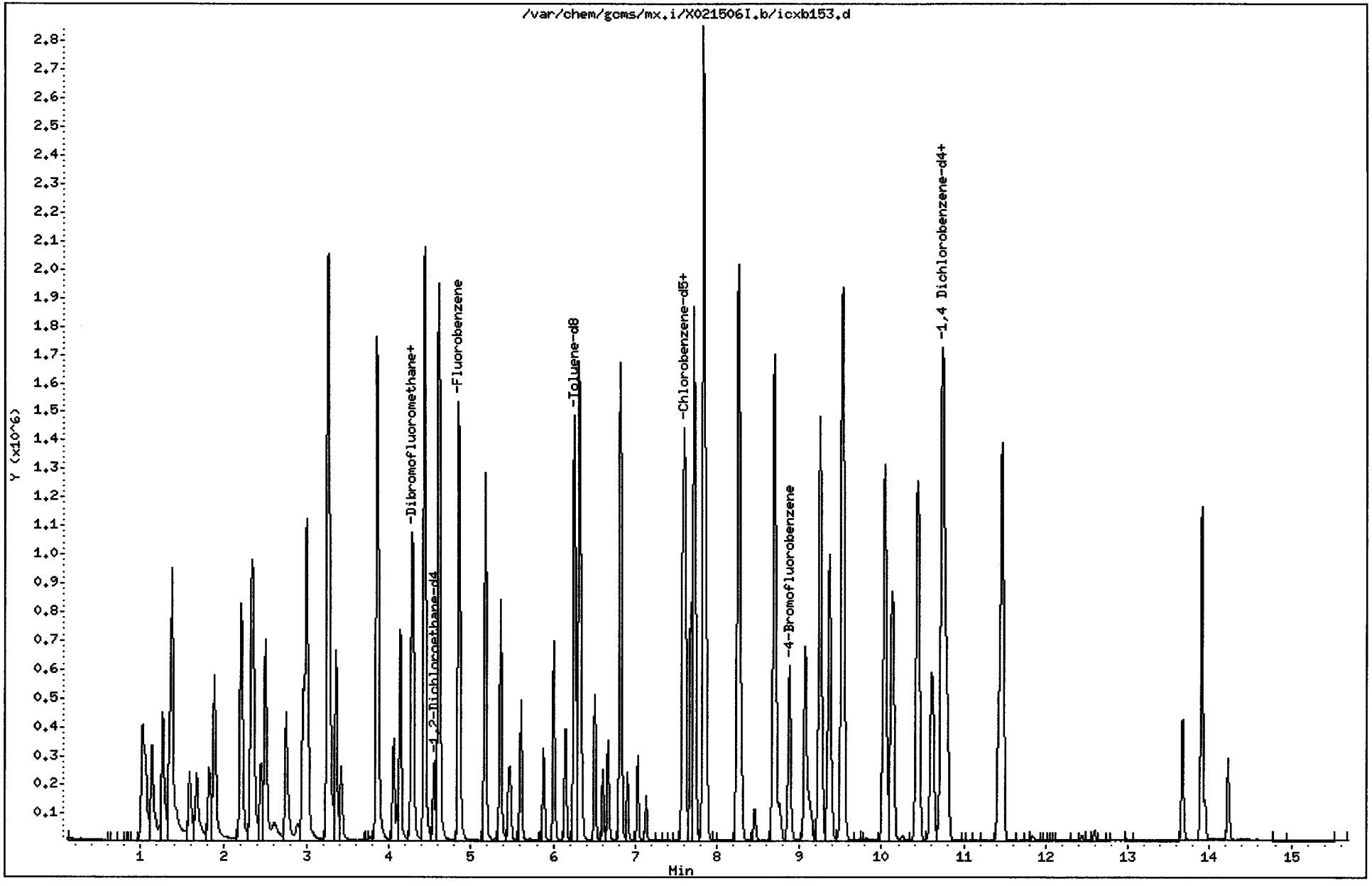
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.830	1.830	(0.377)	234864	10.0000	10.507
17 Trichlorofluoromethane	101	1.890	1.890	(0.390)	544253	10.0000	11.278
18 *2-Chloropropane	43	2.213	2.213	(0.456)	844174	10.0000	10.741
19 1,1-Dichloroethene (ccc)	96	2.335	2.335	(0.481)	278606	10.0000	10.840
20 *Freon 113	151	2.353	2.353	(0.485)	240072	10.0000	11.264
21 Acetone	43	2.377	2.377	(0.490)	69334	40.0000	31.874
22 *Iodomethane	142	2.450	2.450	(0.505)	347581	10.0000	10.727
23 Carbon Disulfide	76	2.499	2.499	(0.515)	1083434	10.0000	11.200
24 *2-propanol	45	2.529	2.529	(0.521)	15388	100.000	46.782
25 *Acetonitrile	40	2.614	2.614	(0.539)	59824	200.000	187.49
26 Methylene Chloride	84	2.754	2.754	(0.568)	207210	10.0000	10.144
27 *t-butanol	59	2.894	2.894	(0.596)	87462	500.000	331.41
28 *Acrylonitrile	53	2.961	2.961	(0.610)	511856	200.000	199.22
29 trans-1,2-Dichloroethene	96	2.998	2.998	(0.618)	343104	10.0000	11.024
30 *MTBE	73	3.010	3.010	(0.620)	291722	10.0000	10.705
31 *Hexane	57	3.259	3.259	(0.672)	1305264	20.0000	20.464
32 1,1-Dichloroethane (spcc)	63	3.357	3.357	(0.692)	676682	10.0000	10.971
33 *Vinyl Acetate	86	3.417	3.417	(0.704)	28959	20.0000	19.530
34 2,2-Dichloropropane	77	3.855	3.855	(0.794)	620638	10.0000	11.040
35 cis 1,2-Dichloroethene	96	3.855	3.855	(0.794)	317642	10.0000	10.663
36 2-Butanone	43	3.874	3.874	(0.798)	104271	40.0000	36.774
37 Bromochloromethane	128	4.056	4.056	(0.836)	82013	10.0000	10.613
38 *THF	42	4.105	4.105	(0.846)	64315	40.0000	36.950
39 Chloroform (ccc)	83	4.135	4.135	(0.852)	519730	10.0000	10.562
40 1,1,1-Trichloroethane	97	4.293	4.293	(0.885)	597867	10.0000	10.903
41 Carbon Tetrachloride	117	4.439	4.439	(0.915)	515970	10.0000	11.332
42 1,1-Dichloropropene	75	4.433	4.433	(0.914)	566388	10.0000	11.155
43 Benzene	78	4.610	4.610	(0.950)	1383392	10.0000	10.234
44 1,2-Dichloroethane	62	4.616	4.616	(0.951)	232058	10.0000	10.599
45 Trichloroethene	130	5.176	5.176	(1.066)	384696	10.0000	11.029
46 1,2-Dichloropropane (ccc)	63	5.358	5.358	(1.104)	289885	10.0000	10.501
47 *Methyl Methacrylate	41	5.480	5.480	(1.129)	85694	10.0000	9.8861
48 Dibromomethane	93	5.461	5.461	(1.125)	75882	10.0000	10.260
49 Bromodichloromethane	83	5.607	5.607	(1.155)	284137	10.0000	10.334
50 *2-Chloroethylvinylether	63	5.881	5.881	(1.212)	119232	20.0000	21.058
51 cis-1,3-Dichloropropene	75	6.003	6.003	(1.237)	339698	10.0000	10.646
52 4-Methyl-2-pentanone	43	6.143	6.143	(1.266)	272360	40.0000	38.153
53 Toluene (ccc)	91	6.313	6.313	(0.832)	1377101	10.0000	10.343
54 trans-1,3-Dichloropropene	75	6.502	6.502	(0.857)	236885	10.0000	10.392
55 *Ethyl Methacrylate	69	6.605	6.605	(0.871)	118572	10.0000	9.6295
56 1,1,2-Trichloroethane	97	6.672	6.672	(0.880)	103817	10.0000	9.9574
57 Tetrachloroethene	164	6.818	6.818	(0.899)	301713	10.0000	10.835
58 1,3-Dichloropropane	76	6.824	6.824	(0.900)	200948	10.0000	10.149
59 2-Hexanone	43	6.903	6.903	(0.910)	162590	40.0000	36.707
60 Chlorodibromomethane	129	7.031	7.031	(0.927)	135271	10.0000	10.315
61 1,2-Dibromoethane	107	7.134	7.134	(0.941)	100543	10.0000	10.243
62 Chlorobenzene (spcc)	112	7.609	7.609	(1.003)	699657	10.0000	10.312

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Report Date: 15-Feb-2006 18:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63	1,1,1,2-Tetrachloroethane	131	7.682	7.682	(1.013)	231288	10.0000	10.504
64	Ethylbenzene (ccc)	106	7.724	7.724	(1.018)	489347	10.0000	10.490
65	m&p-Xylene	106	7.840	7.840	(1.034)	1160230	20.0000	21.034
66	o-Xylene	106	8.254	8.254	(1.088)	496982	10.0000	10.523
67	Styrene	104	8.266	8.266	(1.090)	697232	10.0000	10.172
68	Bromoform (spcc)	173	8.461	8.461	(1.115)	62132	10.0000	10.120
69	Isopropylbenzene	105	8.692	8.692	(1.146)	1602692	10.0000	10.549
70	*cis-1,4-dichloro-2-butene	88	8.753	8.753	(1.154)	28202	10.0000	9.7747
71	Bromobenzene	156	9.069	9.069	(1.196)	216384	10.0000	10.172
72	1,1,2,2-Tetrachloroethane(sp)	83	9.057	9.057	(1.194)	78797	10.0000	8.9724
73	1,2,3-Trichloropropane	110	9.112	9.112	(0.848)	22703	10.0000	9.0258
74	*trans-1,4-dichloro-2-butene	53	9.142	9.142	(0.851)	25251	10.0000	9.4964
75	n-Propylbenzene	91	9.245	9.245	(0.860)	1887276	10.0000	10.460
76	2-Chlorotoluene	91	9.355	9.355	(0.870)	949315	10.0000	10.246
77	1,3,5-Trimethylbenzene	105	9.519	9.519	(0.886)	1027634	10.0000	10.362
78	4-Chlorotoluene	91	9.519	9.519	(0.886)	1007232	10.0000	10.295
79	tert-Butylbenzene	119	10.036	10.036	(0.934)	1084463	10.0000	10.627
80	1,2,4-Trimethylbenzene	105	10.127	10.127	(0.942)	871136	10.0000	10.078
81	sec-Butylbenzene	105	10.438	10.438	(0.971)	1575423	10.0000	10.569
82	1,3-Dichlorobenzene	146	10.614	10.614	(0.988)	448007	10.0000	10.228
83	p-Isopropyltoluene	119	10.736	10.736	(0.999)	1254448	10.0000	10.490
84	1,4-Dichlorobenzene	146	10.791	10.791	(1.004)	401751	10.0000	10.061
85	1,2-Dichlorobenzene	146	11.429	11.429	(1.063)	319517	10.0000	10.122
86	n-Butylbenzene	91	11.466	11.466	(1.067)	1106194	10.0000	10.380
87	1,2-Dibromo-3-chloropropane	157	12.591	12.591	(1.172)	11736	10.0000	9.5449
88	1,2,4-Trichlorobenzene	180	13.674	13.674	(1.272)	153800	10.0000	9.5535
89	Hexachlorobutadiene	225	13.905	13.905	(1.294)	262439	10.0000	10.280
90	Napthalene	128	13.942	13.942	(1.297)	110108	10.0000	9.3741
91	1,2,3-Trichlorobenzene	180	14.228	14.228	(1.324)	100132	10.0000	9.7127
M 92	*1,4-dichloro-2-butene(total)	53				53454	20.0000	19.271

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb153.d
Date : 15-FEB-2006 15:51
Client ID: VSTD010
Sample Info: ICCXB153,1,1,3,,VSTD010
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Lab Smp Id: ICCXB154 Client Smp ID: VSTD020
Inj Date : 15-FEB-2006 16:17
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB154,1,1,4,,VSTD020
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 16:17 Cal File: icxb154.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.854	4.853	(1.000)	1346611	10.0000	
* 2 Chlorobenzene-d5	119	7.585	7.585	(1.000)	229091	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.749	10.748	(1.000)	240120	10.0000	
$ 4 Dibromofluoromethane	113	4.270	4.269	(0.880)	463866	20.0000	20.273
$ 5 1,2-Dichloroethane-d4	65	4.550	4.555	(0.937)	363496	20.0000	20.459
$ 6 Toluene-d8	98	6.253	6.252	(0.824)	2256149	20.0000	19.935
$ 7 4-Bromofluorobenzene	95	8.881	8.874	(0.826)	615934	20.0000	21.346
M 8 1,2-Dichloroethene (total)	96				1351954	40.0000	42.829
M 9 Xylene (total)	106				3103335	60.0000	58.668
10 Dichlorodifluoromethane	85	1.131	1.136	(0.233)	887355	20.0000	20.989
11 Chloromethane (spcc)	50	1.265	1.264	(0.261)	1280237	20.0000	20.592
12 Vinyl Chloride (ccc)	62	1.344	1.343	(0.277)	1038280	20.0000	21.730
13 *1,3-Butadiene	39	1.374	1.373	(0.283)	889863	20.0000	22.378
14 Bromomethane	94	1.593	1.592	(0.328)	390772	20.0000	21.707
15 Chloroethane	64	1.672	1.678	(0.345)	539685	20.0000	20.198

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Report Date: 15-Feb-2006 18:11

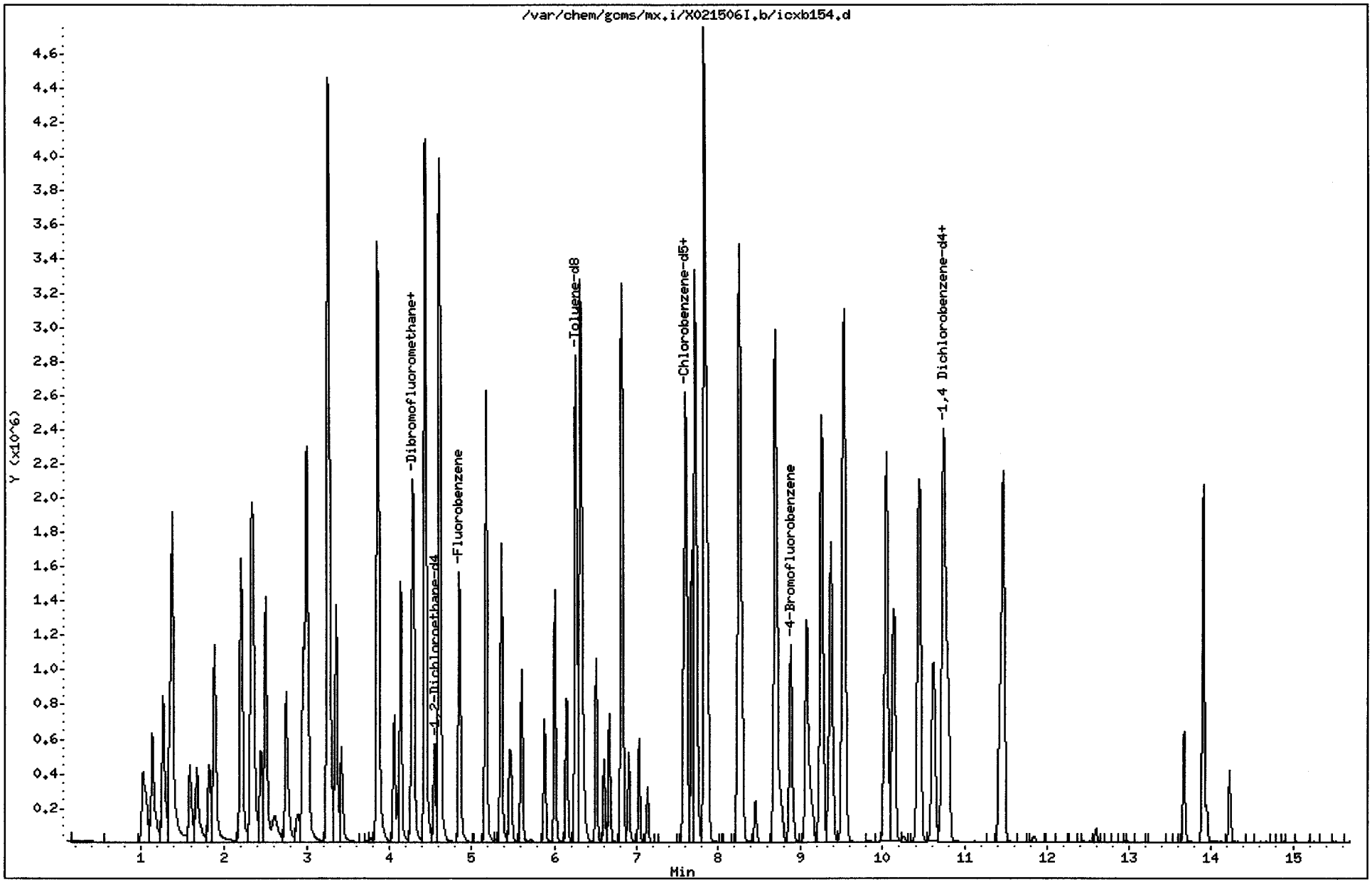
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.830	1.830	(0.377)	481498	20.0000	20.866
17 Trichlorofluoromethane	101	1.891	1.890	(0.390)	1103380	20.0000	21.924
18 *2-Chloropropane	43	2.208	2.213	(0.455)	1701627	20.0000	20.739
19 1,1-Dichloroethene (ccc)	96	2.329	2.335	(0.480)	562660	20.0000	21.195
20 *Freon 113	151	2.354	2.353	(0.485)	500538	20.0000	22.404
21 Acetone	43	2.378	2.377	(0.490)	157211	80.0000	82.944
22 *Iodomethane	142	2.445	2.450	(0.504)	702112	20.0000	21.012
23 Carbon Disulfide	76	2.500	2.499	(0.515)	2183581	20.0000	21.711
24 *2-propanol	45	2.530	2.529	(0.521)	41939	200.000	138.21
25 *Acetonitrile	40	2.615	2.614	(0.539)	146123	400.000	327.70
26 Methylene Chloride	84	2.749	2.754	(0.566)	419483	20.0000	20.178
27 *t-butanol	59	2.895	2.894	(0.596)	278246	1000.00	1029.2
28 *Acrylonitrile	53	2.962	2.961	(0.610)	1096344	400.000	417.74
29 trans-1,2-Dichloroethene	96	2.992	2.998	(0.616)	711103	20.0000	21.929
30 *MTBE	73	3.011	3.010	(0.620)	621919	20.0000	21.726
31 *Hexane	57	3.254	3.259	(0.670)	2769412	40.0000	41.981
32 1,1-Dichloroethane (spcc)	63	3.351	3.357	(0.690)	1361605	20.0000	21.334
33 *Vinyl Acetate	86	3.418	3.417	(0.704)	64322	40.0000	41.944
34 2,2-Dichloropropane	77	3.856	3.855	(0.794)	1232410	20.0000	20.954
35 cis 1,2-Dichloroethene	96	3.856	3.855	(0.794)	640850	20.0000	20.900
36 2-Butanone	43	3.874	3.874	(0.798)	238061	80.0000	81.368
37 Bromochloromethane	128	4.057	4.056	(0.836)	168242	20.0000	21.032
38 *THF	42	4.106	4.105	(0.846)	147437	80.0000	82.226
39 Chloroform (ccc)	83	4.136	4.135	(0.852)	1062145	20.0000	20.960
40 1,1,1-Trichloroethane	97	4.294	4.293	(0.885)	1186487	20.0000	21.000
41 Carbon Tetrachloride	117	4.440	4.439	(0.915)	1040304	20.0000	21.917
42 1,1-Dichloropropene	75	4.434	4.433	(0.914)	1128467	20.0000	21.448
43 Benzene	78	4.611	4.610	(0.950)	2763214	20.0000	20.072
44 1,2-Dichloroethane	62	4.617	4.616	(0.951)	475172	20.0000	21.050
45 Trichloroethene	130	5.176	5.176	(1.066)	767146	20.0000	21.273
46 1,2-Dichloropropane (ccc)	63	5.359	5.358	(1.104)	596245	20.0000	20.971
47 *Methyl Methacrylate	41	5.481	5.480	(1.129)	178765	20.0000	20.134
48 Dibromomethane	93	5.462	5.461	(1.125)	160984	20.0000	21.026
49 Bromodichloromethane	83	5.608	5.607	(1.155)	592611	20.0000	20.875
50 *2-Chloroethylvinylether	63	5.882	5.881	(1.212)	262134	40.0000	43.989
51 cis-1,3-Dichloropropene	75	6.004	6.003	(1.237)	700572	20.0000	21.266
52 4-Methyl-2-pentanone	43	6.144	6.143	(1.266)	579933	80.0000	82.639
53 Toluene (ccc)	91	6.314	6.313	(0.832)	2765023	20.0000	20.416
54 trans-1,3-Dichloropropene	75	6.503	6.502	(0.857)	490423	20.0000	20.981
55 *Ethyl Methacrylate	69	6.606	6.605	(0.871)	243481	20.0000	19.566
56 1,1,2-Trichloroethane	97	6.667	6.672	(0.879)	215301	20.0000	20.289
57 Tetrachloroethene	164	6.819	6.818	(0.899)	609011	20.0000	21.254
58 1,3-Dichloropropane	76	6.825	6.824	(0.900)	422598	20.0000	20.848
59 2-Hexanone	43	6.904	6.903	(0.910)	355464	80.0000	79.420
60 Chlorodibromomethane	129	7.032	7.031	(0.927)	283177	20.0000	20.973
61 1,2-Dibromoethane	107	7.135	7.134	(0.941)	206363	20.0000	20.562
62 Chlorobenzene (spcc)	112	7.610	7.609	(1.003)	1422185	20.0000	20.552

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Report Date: 15-Feb-2006 18:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63 1,1,1,2-Tetrachloroethane	131	7.683	7.682	(1.013)	478134	20.0000	21.134
64 Ethylbenzene (ccc)	106	7.725	7.724	(1.018)	972444	20.0000	20.463
65 m&p-Xylene	106	7.841	7.840	(1.034)	2171830	40.0000	39.093
66 o-Xylene	106	8.261	8.254	(1.089)	931504	20.0000	19.576
67 Styrene	104	8.267	8.266	(1.090)	1321706	20.0000	19.222
68 Bromoform (spcc)	173	8.461	8.461	(1.115)	130144	20.0000	20.687
69 Isopropylbenzene	105	8.693	8.692	(1.146)	3086949	20.0000	20.048
70 *cis-1,4-dichloro-2-butene	88	8.753	8.753	(1.154)	59333	20.0000	20.226
71 Bromobenzene	156	9.076	9.069	(1.196)	440671	20.0000	20.359
72 1,1,2,2-Tetrachloroethane(sp)	83	9.064	9.057	(1.195)	163795	20.0000	18.743
73 1,2,3-Trichloropropane	110	9.118	9.112	(0.848)	48148	20.0000	20.546
74 *trans-1,4-dichloro-2-butene	53	9.143	9.142	(0.851)	50933	20.0000	20.815
75 n-Propylbenzene	91	9.252	9.245	(0.861)	3362768	20.0000	20.150
76 2-Chlorotoluene	91	9.362	9.355	(0.871)	1751971	20.0000	20.467
77 1,3,5-Trimethylbenzene	105	9.520	9.519	(0.886)	1598365	20.0000	17.912
78 4-Chlorotoluene	91	9.526	9.519	(0.886)	1774681	20.0000	19.641
79 tert-Butylbenzene	119	10.043	10.036	(0.934)	1920796	20.0000	20.309
80 1,2,4-Trimethylbenzene	105	10.128	10.127	(0.942)	1348951	20.0000	17.444
81 sec-Butylbenzene	105	10.445	10.438	(0.972)	2739957	20.0000	19.928
82 1,3-Dichlorobenzene	146	10.621	10.614	(0.988)	815600	20.0000	20.134
83 p-Isopropyltoluene	119	10.743	10.736	(0.999)	2041818	20.0000	18.777
84 1,4-Dichlorobenzene	146	10.791	10.791	(1.004)	725358	20.0000	19.740
85 1,2-Dichlorobenzene	146	11.436	11.429	(1.064)	579948	20.0000	19.920
86 n-Butylbenzene	91	11.467	11.466	(1.067)	1687246	20.0000	17.652
87 1,2-Dibromo-3-chloropropane	157	12.592	12.591	(1.171)	26310	20.0000	22.292
88 1,2,4-Trichlorobenzene	180	13.675	13.674	(1.272)	232406	20.0000	16.539
89 Hexachlorobutadiene	225	13.906	13.905	(1.294)	474952	20.0000	20.113
90 Napthalene	128	13.949	13.942	(1.298)	164341	20.0000	16.132
91 1,2,3-Trichlorobenzene	180	14.229	14.228	(1.324)	149088	20.0000	16.562
M 92 *1,4-dichloro-2-butene(total)	53				110266	40.0000	41.041

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb154.d
Date : 15-FEB-2006 16:17
Client ID: VSTD020
Sample Info: ICCXB154,1,1,4,,VSTD020
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Lab Smp Id: ICCXB155 Client Smp ID: VSTD040
Inj Date : 15-FEB-2006 16:43
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB155,1,1,5,,VSTD040
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 16:43 Cal File: icxb155.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 1 Fluorobenzene	96	4.858	4.853	(1.000)	1322797	10.0000	
* 2 Chlorobenzene-d5	119	7.583	7.585	(1.000)	229301	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.753	10.748	(1.000)	263557	10.0000	
$ 4 Dibromofluoromethane	113	4.274	4.269	(0.880)	901900	40.0000	40.102
$ 5 1,2-Dichloroethane-d4	65	4.554	4.555	(0.937)	713692	40.0000	40.711
$ 6 Toluene-d8	98	6.257	6.252	(0.825)	4328616	40.0000	38.557
$ 7 4-Bromofluorobenzene	95	8.879	8.874	(0.826)	1182308	40.0000	37.835
M 8 1,2-Dichloroethene (total)	96				2628861	80.0000	83.938
M 9 Xylene (total)	106				6467676	120.000	121.77
10 Dichlorodifluoromethane	85	1.135	1.136	(0.234)	1709929	40.0000	40.934
11 Chloromethane (spcc)	50	1.263	1.264	(0.260)	2551316	40.0000	41.468
12 Vinyl Chloride (ccc)	62	1.342	1.343	(0.276)	2069489	40.0000	43.353
13 *1,3-Butadiene	39	1.372	1.373	(0.282)	1780250	40.0000	44.541
14 Bromomethane	94	1.591	1.592	(0.328)	822983	40.0000	45.065
15 Chloroethane	64	1.676	1.678	(0.345)	1089769	40.0000	41.207

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.828	1.830	(0.376)	960502	40.0000	41.876
17 Trichlorofluoromethane	101	1.889	1.890	(0.389)	2189008	40.0000	43.503
18 *2-Chloropropane	43	2.212	2.213	(0.455)	3428569	40.0000	42.006
19 1,1-Dichloroethene (ccc)	96	2.333	2.335	(0.480)	1142846	40.0000	43.137
20 *Freon 113	151	2.352	2.353	(0.484)	973762	40.0000	43.577
21 Acetone	43	2.382	2.377	(0.490)	289865	160.000	156.53
22 *Iodomethane	142	2.449	2.450	(0.504)	1392269	40.0000	41.909
23 Carbon Disulfide	76	2.504	2.499	(0.515)	4348134	40.0000	43.288
24 *2-propanol	45	2.546	2.529	(0.524)	85359	400.000	303.61
25 *Acetonitrile	40	2.619	2.614	(0.539)	296761	800.000	698.92
26 Methylene Chloride	84	2.753	2.754	(0.567)	824167	40.0000	40.286
27 *t-butanol	59	2.899	2.894	(0.597)	534916	2000.00	2011.4
28 *Acrylonitrile	53	2.966	2.961	(0.611)	2152645	800.000	827.75
29 trans-1,2-Dichloroethene	96	2.997	2.998	(0.617)	1382272	40.0000	42.789
30 *MTBE	73	3.015	3.010	(0.621)	1186533	40.0000	41.814
31 *Hexane	57	3.258	3.259	(0.671)	5218345	80.0000	80.421(A)
32 1,1-Dichloroethane (spcc)	63	3.355	3.357	(0.691)	2718016	40.0000	42.757
33 *Vinyl Acetate	86	3.422	3.417	(0.704)	120923	80.0000	80.217
34 2,2-Dichloropropane	77	3.860	3.855	(0.795)	2418408	40.0000	41.538
35 cis 1,2-Dichloroethene	96	3.860	3.855	(0.795)	1246589	40.0000	41.148
36 2-Butanone	43	3.879	3.874	(0.798)	468520	160.000	162.41
37 Bromochloromethane	128	4.061	4.056	(0.836)	328887	40.0000	41.469
38 *THF	42	4.110	4.105	(0.846)	288805	160.000	163.16
39 Chloroform (ccc)	83	4.140	4.135	(0.852)	2089712	40.0000	41.636
40 1,1,1-Trichloroethane	97	4.292	4.293	(0.884)	2371155	40.0000	42.245
41 Carbon Tetrachloride	117	4.444	4.439	(0.915)	2041068	40.0000	43.098
42 1,1-Dichloropropene	75	4.438	4.433	(0.914)	2221803	40.0000	42.459
43 Benzene	78	4.615	4.610	(0.950)	5387525	40.0000	39.867
44 1,2-Dichloroethane	62	4.621	4.616	(0.951)	944405	40.0000	42.135
45 Trichloroethene	130	5.180	5.176	(1.066)	1515897	40.0000	42.300
46 1,2-Dichloropropane (ccc)	63	5.363	5.358	(1.104)	1171943	40.0000	41.621
47 *Methyl Methacrylate	41	5.485	5.480	(1.129)	351538	40.0000	40.245
48 Dibromomethane	93	5.460	5.461	(1.124)	314025	40.0000	41.391
49 Bromodichloromethane	83	5.606	5.607	(1.154)	1164166	40.0000	41.385
50 *2-Chloroethylvinylether	63	5.880	5.881	(1.210)	511887	80.0000	85.849
51 cis-1,3-Dichloropropene	75	6.008	6.003	(1.237)	1379314	40.0000	42.163
52 4-Methyl-2-pentanone	43	6.148	6.143	(1.265)	1131068	160.000	163.38
53 Toluene (ccc)	91	6.318	6.313	(0.833)	5373667	40.0000	39.701
54 trans-1,3-Dichloropropene	75	6.507	6.502	(0.858)	957518	40.0000	40.769
55 *Ethyl Methacrylate	69	6.604	6.605	(0.871)	471585	40.0000	38.271
56 1,1,2-Trichloroethane	97	6.671	6.672	(0.880)	419429	40.0000	39.590
57 Tetrachloroethene	164	6.823	6.818	(0.900)	1194359	40.0000	41.361
58 1,3-Dichloropropane	76	6.823	6.824	(0.900)	809816	40.0000	39.929
59 2-Hexanone	43	6.908	6.903	(0.911)	700110	160.000	157.01
60 Chlorodibromomethane	129	7.036	7.031	(0.928)	549354	40.0000	40.518
61 1,2-Dibromoethane	107	7.139	7.134	(0.941)	398109	40.0000	39.704
62 Chlorobenzene (spcc)	112	7.614	7.609	(1.004)	2766917	40.0000	39.956

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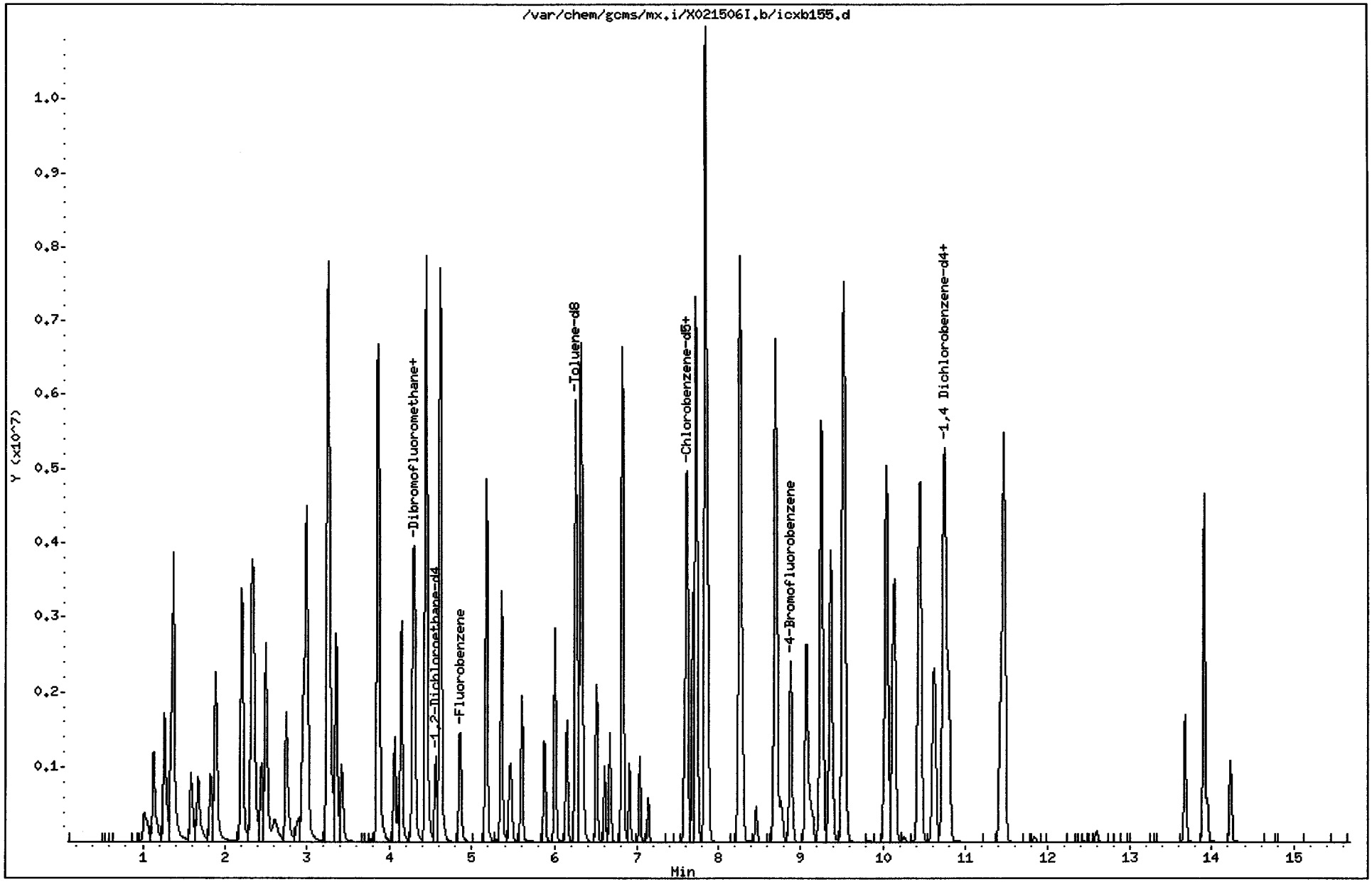
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63	1,1,1,2-Tetrachloroethane	131	7.687	7.682	(1.014)	920720	40.0000	40.548
64	Ethylbenzene (ccc)	106	7.723	7.724	(1.018)	1923008	40.0000	40.356
65	m&p-Xylene	106	7.845	7.840	(1.034)	4534139	80.0000	81.279
66	o-Xylene	106	8.259	8.254	(1.089)	1933537	40.0000	40.496
67	Styrene	104	8.271	8.266	(1.091)	2723035	40.0000	39.637
68	Bromoform (spcc)	173	8.459	8.461	(1.116)	258362	40.0000	40.820
69	Isopropylbenzene	105	8.697	8.692	(1.147)	6197706	40.0000	40.178
70	*cis-1,4-dichloro-2-butene	88	8.758	8.753	(1.155)	116457	40.0000	39.729
71	Bromobenzene	156	9.074	9.069	(1.197)	864572	40.0000	39.923
72	1,1,2,2-Tetrachloroethane(sp)	83	9.068	9.057	(1.196)	313504	40.0000	36.603
73	1,2,3-Trichloropropane	110	9.116	9.112	(0.848)	90063	40.0000	35.909
74	*trans-1,4-dichloro-2-butene	53	9.147	9.142	(0.851)	100319	40.0000	37.854
75	n-Propylbenzene	91	9.250	9.245	(0.860)	7325039	40.0000	39.992
76	2-Chlorotoluene	91	9.360	9.355	(0.870)	3713220	40.0000	39.600
77	1,3,5-Trimethylbenzene	105	9.518	9.519	(0.885)	3986873	40.0000	40.586
78	4-Chlorotoluene	91	9.524	9.519	(0.886)	3898448	40.0000	39.423
79	tert-Butylbenzene	119	10.041	10.036	(0.934)	4218164	40.0000	40.527
80	1,2,4-Trimethylbenzene	105	10.132	10.127	(0.942)	3451562	40.0000	40.552
81	sec-Butylbenzene	105	10.449	10.438	(0.972)	6114718	40.0000	40.431
82	1,3-Dichlorobenzene	146	10.619	10.614	(0.988)	1777838	40.0000	39.988
83	p-Isopropyltoluene	119	10.747	10.736	(0.999)	4965299	40.0000	41.326
84	1,4-Dichlorobenzene	146	10.796	10.791	(1.004)	1607594	40.0000	39.882
85	1,2-Dichlorobenzene	146	11.434	11.429	(1.063)	1269579	40.0000	39.775
86	n-Butylbenzene	91	11.471	11.466	(1.067)	4347217	40.0000	41.190
87	1,2-Dibromo-3-chloropropane	157	12.596	12.591	(1.171)	52685	40.0000	40.534
88	1,2,4-Trichlorobenzene	180	13.673	13.674	(1.272)	638090	40.0000	41.089
89	Hexachlorobutadiene	225	13.904	13.905	(1.293)	1059031	40.0000	40.684
90	Napthalene	128	13.947	13.942	(1.297)	461083	40.0000	40.982
91	1,2,3-Trichlorobenzene	180	14.233	14.228	(1.324)	416183	40.0000	41.679
M 92	*1,4-dichloro-2-butene(total)	53				216777	80.0000	77.583

QC Flag Legend

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

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb155.d
Date : 15-FEB-2006 16:43
Client ID: VSTD040
Sample Info: ICCXB155,1,1,5,,VSTD040
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Report Date: 15-Feb-2006 18:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Lab Smp Id: ICCXB156 Client Smp ID: VSTD080
Inj Date : 15-FEB-2006 17:10
Operator : 22980 Inst ID: mx.i
Smp Info : ICCXB156,1,1,6,,VSTD080
Misc Info : X021506I,8260B_LM,all.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:11 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 17:10 Cal File: icxb156.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.857	4.853	(1.000)	1333610	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.585	(1.000)	232080	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.752	10.748	(1.000)	267931	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.269	(0.880)	229417	80.0000	10.118
$ 5 1,2-Dichloroethane-d4	65	4.559	4.555	(0.939)	181935	80.0000	10.294
$ 6 Toluene-d8	98	6.256	6.252	(0.825)	1130920	80.0000	9.9529
$ 7 4-Bromofluorobenzene	95	8.878	8.874	(0.826)	313564	80.0000	9.8705
M 8 1,2-Dichloroethene (total)	96				5028304	160.000	159.45
M 9 Xylene (total)	106				12601648	240.000	235.31
10 Dichlorodifluoromethane	85	1.134	1.136	(0.233)	3418440	80.0000	80.974(A)
11 Chloromethane (spcc)	50	1.262	1.264	(0.260)	5020043	80.0000	80.798(A)
12 Vinyl Chloride (ccc)	62	1.347	1.343	(0.277)	4048762	80.0000	83.512(A)
13 *1,3-Butadiene	39	1.371	1.373	(0.282)	3457611	80.0000	84.926(A)
14 Bromomethane	94	1.590	1.592	(0.327)	1654493	80.0000	88.054(A)
15 Chloroethane	64	1.675	1.678	(0.345)	2116649	80.0000	79.489

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Report Date: 15-Feb-2006 18:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16 *Vinyl Bromide	106	1.827	1.830	(0.376)	1874774	80.0000	80.893(A)
17 Trichlorofluoromethane	101	1.888	1.890	(0.389)	4303478	80.0000	84.106(A)
18 *2-Chloropropane	43	2.211	2.213	(0.455)	6708941	80.0000	81.271(A)
19 1,1-Dichloroethene (ccc)	96	2.332	2.335	(0.480)	2213545	80.0000	82.451(A)
20 *Freon 113	151	2.357	2.353	(0.485)	1960520	80.0000	85.946(A)
21 Acetone	43	2.381	2.377	(0.490)	639444	320.000	338.54(A)
22 *Iodomethane	142	2.448	2.450	(0.504)	2747000	80.0000	81.675(A)
23 Carbon Disulfide	76	2.503	2.499	(0.515)	8307531	80.0000	81.738(A)
24 *2-propanol	45	2.539	2.529	(0.523)	191082	800.000	692.29
25 *Acetonitrile	40	2.618	2.614	(0.539)	613949	1600.00	1459.4
26 Methylene Chloride	84	2.752	2.754	(0.567)	1646788	80.0000	79.869
27 *t-butanol	59	2.898	2.894	(0.597)	1233798	4000.00	4489.1(A)
28 *Acrylonitrile	53	2.965	2.961	(0.610)	4464024	1600.00	1684.6(A)
29 trans-1,2-Dichloroethene	96	2.995	2.998	(0.617)	2590482	80.0000	79.605
30 *MTBE	73	3.014	3.010	(0.620)	2381313	80.0000	82.760(A)
31 *Hexane	57	3.263	3.259	(0.672)	10701772	160.000	162.98(A)
32 1,1-Dichloroethane (spcc)	63	3.354	3.357	(0.691)	5393785	80.0000	83.540(A)
33 *Vinyl Acetate	86	3.421	3.417	(0.704)	240528	160.000	158.55
34 2,2-Dichloropropane	77	3.859	3.855	(0.795)	4606701	80.0000	78.694
35 cis 1,2-Dichloroethene	96	3.859	3.855	(0.795)	2437822	80.0000	79.843
36 2-Butanone	43	3.878	3.874	(0.798)	1003334	320.000	340.54(A)
37 Bromochloromethane	128	4.060	4.056	(0.836)	655351	80.0000	81.629(A)
38 *THF	42	4.109	4.105	(0.846)	611178	320.000	338.52(A)
39 Chloroform (ccc)	83	4.139	4.135	(0.852)	4096887	80.0000	80.827(A)
40 1,1,1-Trichloroethane	97	4.297	4.293	(0.885)	4571767	80.0000	80.677(A)
41 Carbon Tetrachloride	117	4.443	4.439	(0.915)	3890628	80.0000	81.270(A)
42 1,1-Dichloropropene	75	4.443	4.433	(0.915)	4245724	80.0000	80.410(A)
43 Benzene	78	4.614	4.610	(0.950)	10238707	80.0000	75.807
44 1,2-Dichloroethane	62	4.626	4.616	(0.952)	1881261	80.0000	82.772(A)
45 Trichloroethene	130	5.179	5.176	(1.066)	2952716	80.0000	81.475(A)
46 1,2-Dichloropropane (ccc)	63	5.362	5.358	(1.104)	2329636	80.0000	81.764(A)
47 *Methyl Methacrylate	41	5.484	5.480	(1.129)	735977	80.0000	82.955(A)
48 Dibromomethane	93	5.459	5.461	(1.124)	638014	80.0000	82.824(A)
49 Bromodichloromethane	83	5.611	5.607	(1.155)	2314461	80.0000	81.337(A)
50 *2-Chloroethylvinylether	63	5.885	5.881	(1.212)	1067315	160.000	174.36(A)
51 cis-1,3-Dichloropropene	75	6.007	6.003	(1.237)	2726342	80.0000	82.272(A)
52 4-Methyl-2-pentanone	43	6.153	6.143	(1.267)	2405001	320.000	340.84(A)
53 Toluene (ccc)	91	6.317	6.313	(0.833)	10371072	80.0000	76.290
54 trans-1,3-Dichloropropene	75	6.506	6.502	(0.858)	1932628	80.0000	81.113(A)
55 *Ethyl Methacrylate	69	6.609	6.605	(0.872)	993869	80.0000	79.742
56 1,1,2-Trichloroethane	97	6.670	6.672	(0.880)	845880	80.0000	79.070
57 Tetrachloroethene	164	6.822	6.818	(0.900)	2328624	80.0000	79.722
58 1,3-Dichloropropane	76	6.822	6.824	(0.900)	1618156	80.0000	78.995
59 2-Hexanone	43	6.907	6.903	(0.911)	1501218	320.000	330.46(A)
60 Chlorodibromomethane	129	7.035	7.031	(0.928)	1121631	80.0000	81.442(A)
61 1,2-Dibromoethane	107	7.138	7.134	(0.941)	816288	80.0000	80.362(A)
62 Chlorobenzene (spcc)	112	7.613	7.609	(1.004)	5437173	80.0000	77.914

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Report Date: 15-Feb-2006 18:11

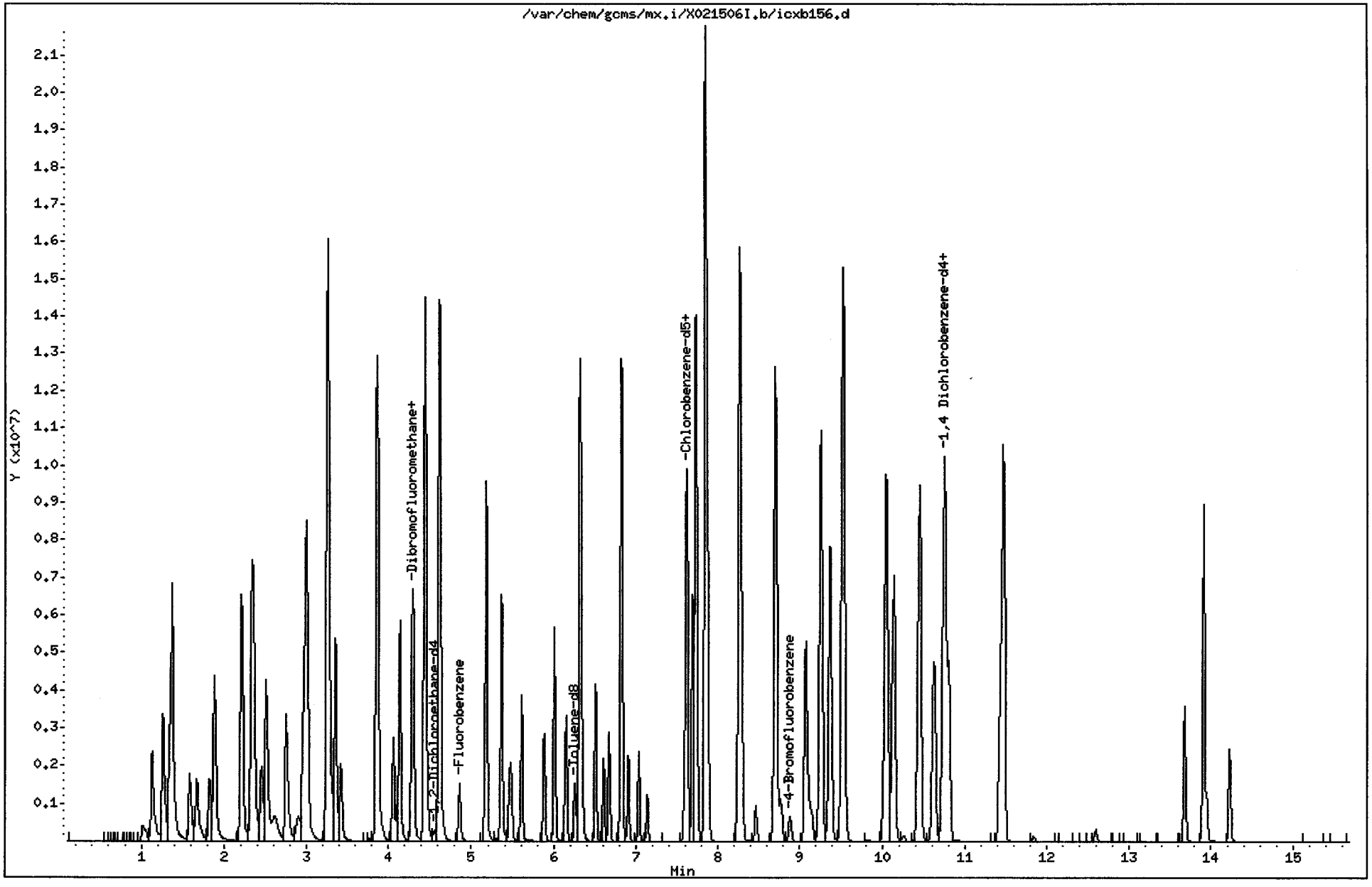
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63	1,1,1,2-Tetrachloroethane	131	7.686	7.682	(1.014)	1830283	80.0000	79.692
64	Ethylbenzene (ccc)	106	7.728	7.724	(1.019)	3727503	80.0000	77.665
65	m&p-Xylene	106	7.850	7.840	(1.035)	8794541	160.000	156.35
66	o-Xylene	106	8.264	8.254	(1.090)	3807106	80.0000	78.952
67	Styrene	104	8.276	8.266	(1.091)	5333289	80.0000	77.157
68	Bromoform (spcc)	173	8.464	8.461	(1.116)	524160	80.0000	81.514(A)
69	Isopropylbenzene	105	8.702	8.692	(1.148)	11665282	80.0000	75.428
70	*cis-1,4-dichloro-2-butene	88	8.756	8.753	(1.155)	233817	80.0000	79.007
71	Bromobenzene	156	9.073	9.069	(1.197)	1713263	80.0000	78.422
72	1,1,2,2-Tetrachloroethane(sp)	83	9.067	9.057	(1.196)	619628	80.0000	72.770
73	1,2,3-Trichloropropane	110	9.121	9.112	(0.848)	180712	80.0000	72.249
74	*trans-1,4-dichloro-2-butene	53	9.152	9.142	(0.851)	199009	80.0000	74.822
75	n-Propylbenzene	91	9.255	9.245	(0.861)	13835805	80.0000	75.068
76	2-Chlorotoluene	91	9.365	9.355	(0.871)	7212059	80.0000	76.250
77	1,3,5-Trimethylbenzene	105	9.523	9.519	(0.886)	7834741	80.0000	78.673
78	4-Chlorotoluene	91	9.529	9.519	(0.886)	7598454	80.0000	76.185
79	tert-Butylbenzene	119	10.046	10.036	(0.934)	8090421	80.0000	76.947
80	1,2,4-Trimethylbenzene	105	10.137	10.127	(0.943)	6876400	80.0000	79.547
81	sec-Butylbenzene	105	10.454	10.438	(0.972)	11720433	80.0000	76.748
82	1,3-Dichlorobenzene	146	10.624	10.614	(0.988)	3585060	80.0000	79.417
83	p-Isopropyltoluene	119	10.752	10.736	(1.000)	9592389	80.0000	78.740
84	1,4-Dichlorobenzene	146	10.801	10.791	(1.005)	3225167	80.0000	78.889
85	1,2-Dichlorobenzene	146	11.439	11.429	(1.064)	2570935	80.0000	79.339
86	n-Butylbenzene	91	11.476	11.466	(1.067)	8496252	80.0000	79.303
87	1,2-Dibromo-3-chloropropane	157	12.595	12.591	(1.171)	112077	80.0000	83.976(A)
88	1,2,4-Trichlorobenzene	180	13.678	13.674	(1.272)	1351997	80.0000	84.645(A)
89	Hexachlorobutadiene	225	13.909	13.905	(1.294)	2066459	80.0000	78.402
90	Napthalene	128	13.946	13.942	(1.297)	1005122	80.0000	86.460(A)
91	1,2,3-Trichlorobenzene	180	14.232	14.228	(1.324)	900669	80.0000	87.142(A)
M 92	*1,4-dichloro-2-butene(total)	53				432826	160.000	153.83

QC Flag Legend

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

Data File: /var/chem/gcms/mx.i/X021506I.b/icxb156.d
Date : 15-FEB-2006 17:10
Client ID: VSTD080
Sample Info: ICCXB156,1,1,6,,VSTD080
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Lab Smp Id: VCCXB15A
Inj Date : 15-FEB-2006 18:03
Operator : 22980 Inst ID: mx.i
Smp Info : VCCXB15A,1,3,,2ndSource
Misc Info : X021506I,8260B_LM,ss.sub
Comment :
Method : /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Meth Date : 15-Feb-2006 18:20 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 17:10 ✓ Cal File: icxb156.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	4.855	4.853	(1.000)	1289539	10.0000	
* 2 Chlorobenzene-d5	119	7.580	7.585	(1.000)	220789	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.744	10.748	(1.000)	259867	10.0000	
$ 5 1,2-Dichloroethane-d4	65	4.551	4.555	(0.937)	168796	9.87685	9.8768
$ 4 Dibromofluoromethane	113	4.271	4.269	(0.880)	217707	9.92971	9.9297
$ 6 Toluene-d8	98	6.254	6.252	(0.825)	1087101	10.0565	10.056
$ 7 4-Bromofluorobenzene	95	8.876	8.874	(0.826)	301450	9.78371	9.7837
10 Dichlorodifluoromethane	85	1.132	1.136	(0.233)	447120	10.9530	10.953
11 Chloromethane (spcc)	50	1.266	1.264	(0.261)	704099	11.7199	11.720
12 Vinyl Chloride (ccc)	62	1.345	1.343	(0.277)	547622	11.6816	11.682
14 Bromomethane	94	1.594	1.592	(0.328)	222001	12.2189	12.219
15 Chloroethane	64	1.679	1.678	(0.346)	283470	11.0093	11.009
17 Trichlorofluoromethane	101	1.892	1.890	(0.390)	539511	10.5197	10.520
19 1,1-Dichloroethene (ccc)	96	2.330	2.335	(0.480)	304865	11.7439	11.744

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	21 Acetone	43	2.385	2.377	(0.491)	32252	17.6588	17.659
	22 *Iodomethane	142	2.446	2.450	(0.504)	746767	22.9619	22.962
	23 Carbon Disulfide	76	2.501	2.499	(0.515)	1997545	20.3255	20.326
	26 Methylene Chloride	84	2.750	2.754	(0.566)	211805	10.6236	10.624
	29 trans-1,2-Dichloroethene	96	2.993	2.998	(0.617)	335784	10.6713	10.671
	30 *MTBE	73	3.012	3.010	(0.620)	282452	10.1518	10.152
	32 1,1-Dichloroethane (spcc)	63	3.352	3.357	(0.690)	691251	11.0721	11.072
	33 *Vinyl Acetate	86	3.419	3.417	(0.704)	30009	20.4577	20.458
	34 2,2-Dichloropropane	77	3.857	3.855	(0.794)	607192	10.7269	10.727
	35 cis 1,2-Dichloroethene	96	3.857	3.855	(0.794)	318970	10.8039	10.804
M	8 1,2-Dichloroethene (total)	96				654755	21.4752	21.475
	36 2-Butanone	43	3.875	3.874	(0.798)	52702	18.4993	18.499
	37 Bromochloromethane	128	4.058	4.056	(0.836)	83491	10.7549	10.755
	39 Chloroform (ccc)	83	4.137	4.135	(0.852)	520649	10.6229	10.623
	40 1,1,1-Trichloroethane	97	4.289	4.293	(0.883)	617075	11.2615	11.262
	41 Carbon Tetrachloride	117	4.441	4.439	(0.915)	532460	11.5025	11.502
	42 1,1-Dichloropropene	75	4.435	4.433	(0.914)	579041	11.3413	11.341
	43 Benzene	78	4.612	4.610	(0.950)	1407561	10.7777	10.778
	44 1,2-Dichloroethane	62	4.618	4.616	(0.951)	239640	10.9041	10.904
	45 Trichloroethene	130	5.177	5.176	(1.066)	395792	11.2944	11.294
	46 1,2-Dichloropropane (ccc)	63	5.360	5.358	(1.104)	299959	10.8876	10.888
	48 Dibromomethane	93	5.457	5.461	(1.124)	77073	10.5390	10.539
	49 Bromodichloromethane	83	5.603	5.607	(1.154)	296087	10.8214	10.821
	51 cis-1,3-Dichloropropene	75	6.005	6.003	(1.237)	355614	11.0980	11.098
	52 4-Methyl-2-pentanone	43	6.145	6.143	(1.266)	139331	20.4214	20.421
	53 Toluene (ccc)	91	6.315	6.313	(0.833)	1394342	10.7813	10.781
	54 trans-1,3-Dichloropropene	75	6.504	6.502	(0.858)	227311	10.0282	10.028
	56 1,1,2-Trichloroethane	97	6.668	6.672	(0.880)	106814	10.4555	10.456
	57 Tetrachloroethene	164	6.820	6.818	(0.900)	308755	11.1109	11.111
	58 1,3-Dichloropropane	76	6.820	6.824	(0.900)	208688	10.7087	10.709
	59 2-Hexanone	43	6.905	6.903	(0.911)	82267	19.0357	19.036
	60 Chlorodibromomethane	129	7.033	7.031	(0.928)	134023	10.5884	10.588
	61 1,2-Dibromoethane	107	7.136	7.134	(0.941)	98423	10.3448	10.345
	62 Chlorobenzene (spcc)	112	7.611	7.609	(1.004)	702906	10.5876	10.588
	64 Ethylbenzene (ccc)	106	7.720	7.724	(1.018)	503303	11.0229	11.023
	63 1,1,1,2-Tetrachloroethane	131	7.684	7.682	(1.014)	230634	10.5555	10.555
	65 m&p-Xylene	106	7.842	7.840	(1.034)	1155263	21.5892	21.589
	66 o-Xylene	106	8.256	8.254	(1.089)	484752	10.5669	10.567
M	9 Xylene (total)	106				1640015	32.1562	32.156
	67 Styrene	104	8.268	8.266	(1.091)	711966	10.8268	10.827
	68 Bromoform (spcc)	173	8.456	8.461	(1.116)	65263	10.6684	10.668
	69 Isopropylbenzene	105	8.694	8.692	(1.147)	1425690	9.68994	9.6899
	71 Bromobenzene	156	9.071	9.069	(1.197)	215785	10.3824	10.382
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.059	9.057	(1.195)	81881	10.0946	10.094
	75 n-Propylbenzene	91	9.247	9.245	(0.861)	1855671	10.3806	10.381
	73 1,2,3-Trichloropropane	110	9.119	9.112	(0.849)	23399	9.64551	9.6455
	76 2-Chlorotoluene	91	9.357	9.355	(0.871)	947503	10.3284	10.328

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77 1,3,5-Trimethylbenzene	105	9.515	9.519	(0.886)	1016692	10.5260	10.526
78 4-Chlorotoluene	91	9.521	9.519	(0.886)	987838	10.2118	10.212
79 tert-Butylbenzene	119	10.038	10.036	(0.934)	1062547	10.4194	10.419
80 1,2,4-Trimethylbenzene	105	10.129	10.127	(0.943)	868090	10.3538	10.354
81 sec-Butylbenzene	105	10.440	10.438	(0.972)	1607895	10.8555	10.856
82 1,3-Dichlorobenzene	146	10.616	10.614	(0.988)	448990	10.2548	10.255
83 p-Isopropyltoluene	119	10.738	10.736	(0.999)	1199751	10.1539	10.154
84 1,4-Dichlorobenzene	146	10.792	10.791	(1.005)	408347	10.2983	10.298
86 n-Butylbenzene	91	11.468	11.466	(1.067)	1088940	10.4794	10.479
85 1,2-Dichlorobenzene	146	11.431	11.429	(1.064)	311316	9.90536	9.9054
87 1,2-Dibromo-3-chloropropane	157	12.593	12.591	(1.172)	11655	9.00416	9.0042
88 1,2,4-Trichlorobenzene	180	13.670	13.674	(1.272)	149339	9.66068	9.6607
89 Hexachlorobutadiene	225	13.907	13.905	(1.294)	279047	10.9157	10.916
90 Napthalene	128	13.944	13.942	(1.298)	106981	9.48809	9.4881
91 1,2,3-Trichlorobenzene	180	14.230	14.228	(1.324)	99445	9.96397	9.9640

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: vccxb15a.d
Lab Smp Id: VCCXB15A
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Misc Info: X021506I,8260B_LM,ss.sub

Calibration Date: 15-FEB-2006
Calibration Time: 15:51

Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1323492	661746	2646984	1289539	-2.57
2 Chlorobenzene-d5	226173	113086	452346	220789	-2.38
3 1,4 Dichlorobenze	260091	130046	520182	259867	-0.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.04
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.06
3 1,4 Dichlorobenze	10.75	10.25	11.25	10.74	-0.04

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

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: VCCXB15A
Level: LOW
Data Type: MS DATA
SpikeList File: ssallcmpds.spk
Sublist File: ss.sub
Method File: /var/chem/gcms/mx.i/X021506I.b/8260B_LM.m
Misc Info: X021506I,8260B_LM,ss.sub

Client SDG: X021506I
Fraction: VOA

Operator: 22980
SampleType: LCS
Quant Type: ISTD

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	10	Dichlorodifluorome	10.000	10.953	109.53	70-130
	11	Chloromethane (spc	10.000	11.720	117.20	70-130
	12	Vinyl Chloride (cc	10.000	11.682	116.82	70-130
	14	Bromomethane	10.000	12.219	122.19	70-130
	15	Chloroethane	10.000	11.009	110.09	70-130
	17	Trichlorofluoromet	10.000	10.520	105.20	70-130
	19	1,1-Dichloroethene	10.000	11.744	117.44	70-130
	23	Carbon Disulfide	20.000	20.326	101.63	70-130
	21	Acetone	20.000	17.659	88.29	70-130
	22	*Iodomethane	20.000	22.962	114.81	70-130
	26	Methylene Chloride	10.000	10.624	106.24	70-130
	29	trans-1,2-Dichloro	10.000	10.671	106.71	70-130
	30	*MTBE	10.000	10.152	101.52	70-130
	32	1,1-Dichloroethane	10.000	11.072	110.72	70-130
	33	*Vinyl Acetate	20.000	20.458	102.29	70-130
	34	2,2-Dichloropropan	10.000	10.727	107.27	70-130
	35	cis 1,2-Dichloroet	10.000	10.804	108.04	70-130
	36	2-Butanone	20.000	18.499	92.50	70-130
M	8	1,2-Dichloroethene	20.000	21.475	107.38	70-130
	37	Bromochloromethane	10.000	10.755	107.55	70-130
	39	Chloroform (ccc)	10.000	10.623	106.23	70-130
	40	1,1,1-Trichloroeth	10.000	11.262	112.62	70-130
	41	Carbon Tetrachlori	10.000	11.502	115.02	70-130
	42	1,1-Dichloropropen	10.000	11.341	113.41	70-130
	43	Benzene	10.000	10.778	107.78	70-130
	44	1,2-Dichloroethane	10.000	10.904	109.04	70-130
	45	Trichloroethene	10.000	11.294	112.94	70-130
	46	1,2-Dichloropropan	10.000	10.888	108.88	70-130
	48	Dibromomethane	10.000	10.539	105.39	70-130
	49	Bromodichlorometha	10.000	10.821	108.21	70-130
	51	cis-1,3-Dichloropr	10.000	11.098	110.98	70-130
	52	4-Methyl-2-pentano	20.000	20.421	102.11	70-130
	53	Toluene (ccc)	10.000	10.781	107.81	70-130

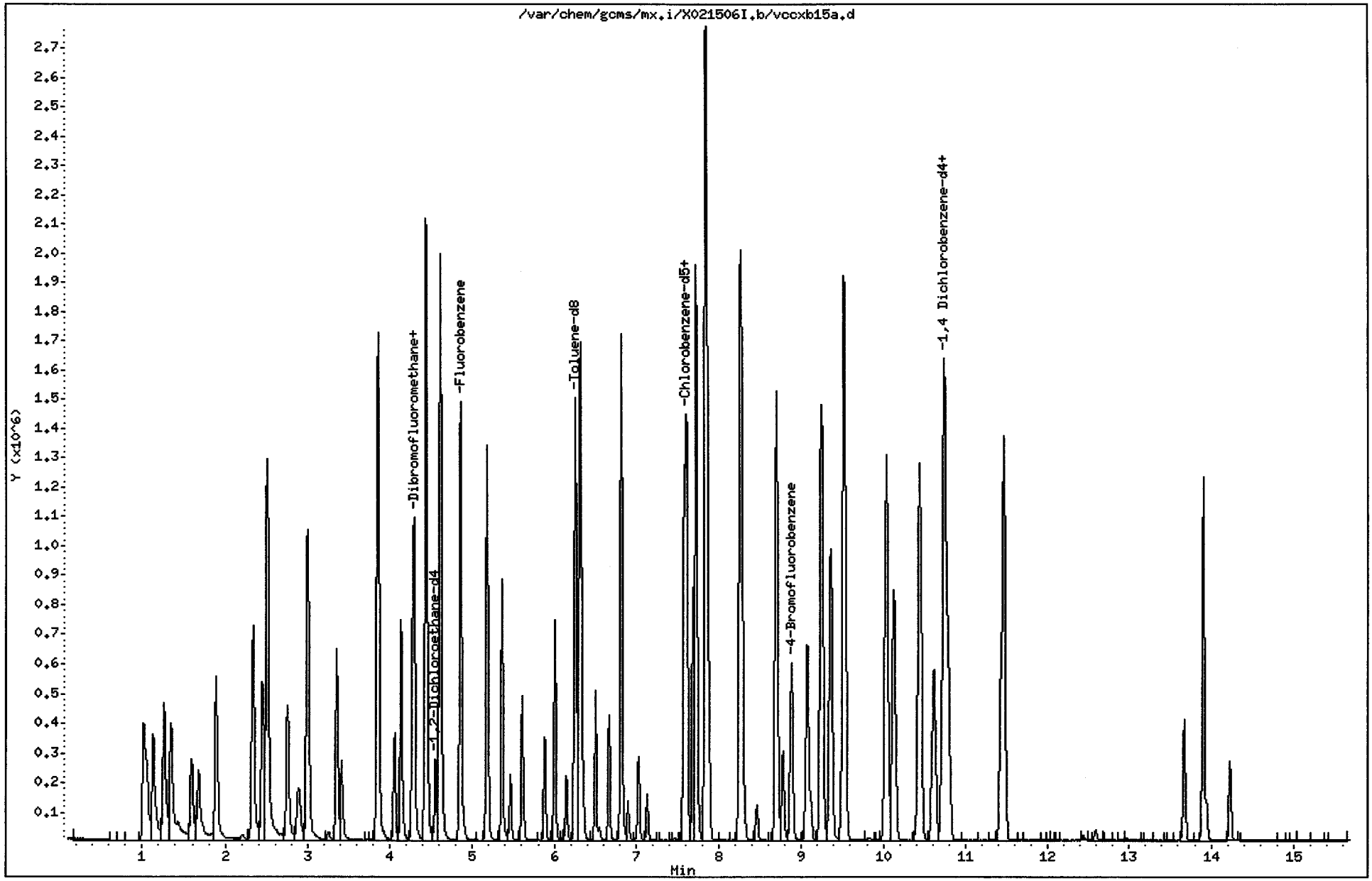
Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Report Date: 15-Feb-2006 18:21

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
54 trans-1,3-Dichloro	10.000	10.028	100.28	70-130
56 1,1,2-Trichloroeth	10.000	10.456	104.56	70-130
57 Tetrachloroethene	10.000	11.111	111.11	70-130
58 1,3-Dichloropropan	10.000	10.709	107.09	70-130
59 2-Hexanone	20.000	19.036	95.18	70-130
60 Chlorodibromometha	10.000	10.588	105.88	70-130
61 1,2-Dibromoethane	10.000	10.345	103.45	70-130
62 Chlorobenzene (spc	10.000	10.588	105.88	70-130
64 Ethylbenzene (ccc)	10.000	11.023	110.23	70-130
63 1,1,1,2-Tetrachlor	10.000	10.555	105.55	70-130
65 m&p-Xylene	20.000	21.589	107.95	70-130
66 o-Xylene	10.000	10.567	105.67	70-130
M 9 Xylene (total)	30.000	32.156	107.19	70-130
67 Styrene	10.000	10.827	108.27	70-130
68 Bromoform (spcc)	10.000	10.668	106.68	70-130
69 Isopropylbenzene	10.000	9.6899	96.90	70-130
71 Bromobenzene	10.000	10.382	103.82	70-130
72 1,1,2,2-Tetrachlor	10.000	10.094	100.95	70-130
75 n-Propylbenzene	10.000	10.381	103.81	70-130
73 1,2,3-Trichloropro	10.000	9.6455	96.46	70-130
76 2-Chlorotoluene	10.000	10.328	103.28	70-130
77 1,3,5-Trimethylben	10.000	10.526	105.26	70-130
78 4-Chlorotoluene	10.000	10.212	102.12	70-130
79 tert-Butylbenzene	10.000	10.419	104.19	70-130
80 1,2,4-Trimethylben	10.000	10.354	103.54	70-130
81 sec-Butylbenzene	10.000	10.856	108.56	70-130
82 1,3-Dichlorobenzen	10.000	10.255	102.55	70-130
83 p-Isopropyltoluene	10.000	10.154	101.54	70-130
84 1,4-Dichlorobenzen	10.000	10.298	102.98	70-130
86 n-Butylbenzene	10.000	10.479	104.79	70-130
85 1,2-Dichlorobenzen	10.000	9.9054	99.05	70-130
87 1,2-Dibromo-3-chlo	10.000	9.0042	90.04	70-130
88 1,2,4-Trichloroben	10.000	9.6607	96.61	70-130
89 Hexachlorobutadien	10.000	10.916	109.16	70-130
90 Napthalene	10.000	9.4881	94.88	70-130
91 1,2,3-Trichloroben	10.000	9.9640	99.64	70-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	9.8768	98.77	71-127
$ 4 Dibromofluorometha	10.000	9.9297	99.30	79-120
$ 6 Toluene-d8	10.000	10.056	100.57	80-120
$ 7 4-Bromofluorobenze	10.000	9.7837	97.84	69-126

Data File: /var/chem/gcms/mx.i/X021506I.b/vccxb15a.d
Date : 15-FEB-2006 18:03
Client ID:
Sample Info: VCCXB15A,1,3,,2ndSource
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



STL Knoxville GC/MS VOST Continuing Calibration Review / Narrative Checklist
Method: VOST Analysis - KNOX-MS-0011, Rev. 5 and KNOX-MS-0015, Rev. 8

Analysis Date:	4/12/06	CCAL Batch/ Scan Name:	XD41206	Instrument:	MX	ICAL Batch/ Scan Name:	XD215061	

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		☐*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?		✓			✓
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		☐ %D or drift > 50% for the following TCLs: Acetone = 64% Naphthalene 53%	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate 4/12/06	✓	✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst:	Date: 4/12/06	2nd Level Reviewer :	Date: 4/12/06
Comments:		**Comments:**	

STL Knoxville GC/MS Volatiles Run Log - Instrument MX

Target Batch	X041206	XXXXXXXXX	XXXXXXXXX	Loop #	1	2
QuantIMS Batch	6102057			Standard ID	VOA6509	VOA6501
Method	VOST	XXXXXXXXX	XXXXXXXXX	Matrix	25mL	25mL VOST
SOP#	KNOX-MS-0011	XXXXXXXXX	XXXXXXXXX	IS Amt	0.969mL	0.939mL
Intitial Cal Batch	X021506I	XXXXXXXXX	XXXXXXXXX	SS Amt	↓	50mL VOA6510
CCAL IS Areas	977885	201795	245212	Heated? Clamshell (Y) N		

☒ Date/Time Verified Preventive Maintenance Performed ☒ NA or ☒ Chang Int's Acetone IS.

Lot	Lab File ID	Time	ALS #	Loop #	~~Solatek~~ Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	B5BXD12	0823	—	—	—	1	1.0mL	NA		1.0mL VOA6510
CCV	CCVXD123	0838	18	1	1	1	25mL			5.0mL VOA6506 → 50mL
LCS	H2229G1AC	0921	1	2						2.5mL VOA6506
LCSD	↓ 1AD	0947	2							↓ ↓
BLK	BLK1	1021	3							
↓	H2229G1AA	1048	4							
H6D070261	H2T3D1AA	1256	8							↓IS ↓Sm. Matrix
	2G	1322	9							
	2R	1349	10							
	2N	1416	11							
	2K	1442	12							Tandem
	2P	1509	13							
	2V	1535	14							↓IS
	29	1601	15							
	3W	1628	16							
	32	1654	17							
	37	1721	18							
H6D120117	H2350IAA	1136	5							
	FX	1202	6							
	FT	1229	7							

Analyst/Date: [illegible] 6/12/06 / _____

Data File: /chem/gcms/mx.i/X041206.b/bfbxd12.d

Date : 12-APR-2006 08:23

Client ID: TUNE

Instrument: mx.i

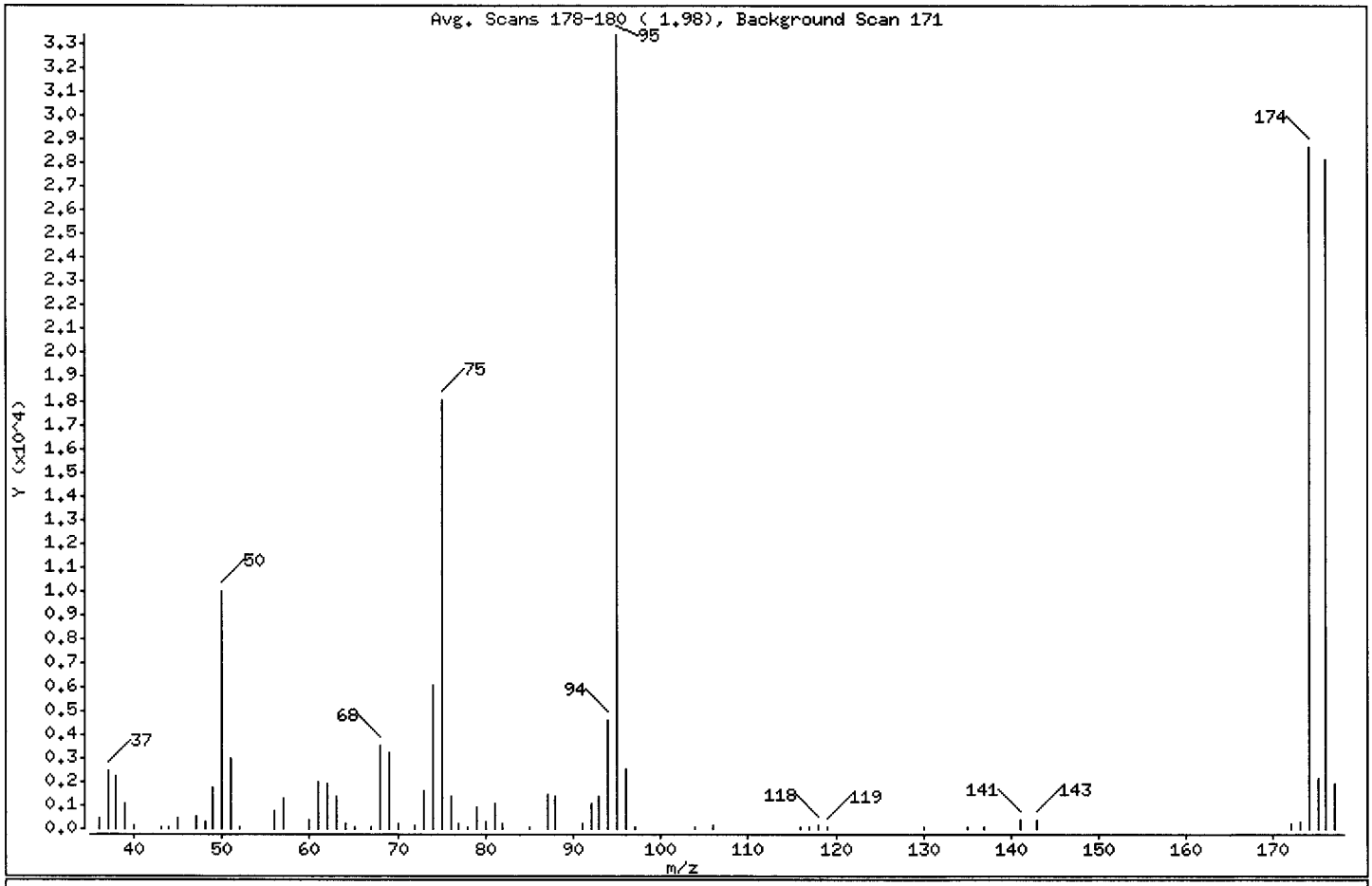
Sample Info: BFBXD12,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.99
75	30.00 - 60.00% of mass 95	53.96
96	5.00 - 9.00% of mass 95	7.53
173	Less than 2.00% of mass 174	0.97 (1.13)
174	50.00 - 120.00% of mass 95	86.04
175	5.00 - 9.00% of mass 174	6.51 (7.57)
176	95.00 - 101.00% of mass 174	84.46 (98.16)
177	5.00 - 9.00% of mass 176	5.84 (6.92)

Data File: /chem/gcms/mx.i/X041206.b/bfbxd12.d

Date : 12-APR-2006 08:23

Client ID: TUNE

Instrument: mx.i

Sample Info: BFBXD12,1,3,,BFB,TUNE

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

Data File: bfbxd12.d
Spectrum: Avg. Scans 178-180 (1.98), Background Scan 171
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	451	61.00	1994	80.00	275	118.00	178
37.00	2469	62.00	1938	81.00	1057	119.00	54
38.00	2238	63.00	1412	82.00	203	130.00	54
39.00	1090	64.00	205	85.00	53	135.00	69
40.00	140	65.00	50	87.00	1430	137.00	60
43.00	60	67.00	54	88.00	1406	141.00	351
44.00	51	68.00	3496	91.00	208	143.00	363
45.00	497	69.00	3248	92.00	1058	172.00	197
47.00	559	70.00	195	93.00	1393	173.00	324
48.00	298	72.00	145	94.00	4596	174.00	28736
49.00	1748	73.00	1589	95.00	33392	175.00	2174
50.00	10016	74.00	6063	96.00	2514	176.00	28208
51.00	3022	75.00	18016	97.00	67	177.00	1952
52.00	60	76.00	1366	104.00	50		
56.00	772	77.00	240	106.00	116		
57.00	1326	78.00	102	116.00	53		
60.00	382	79.00	899	117.00	91		

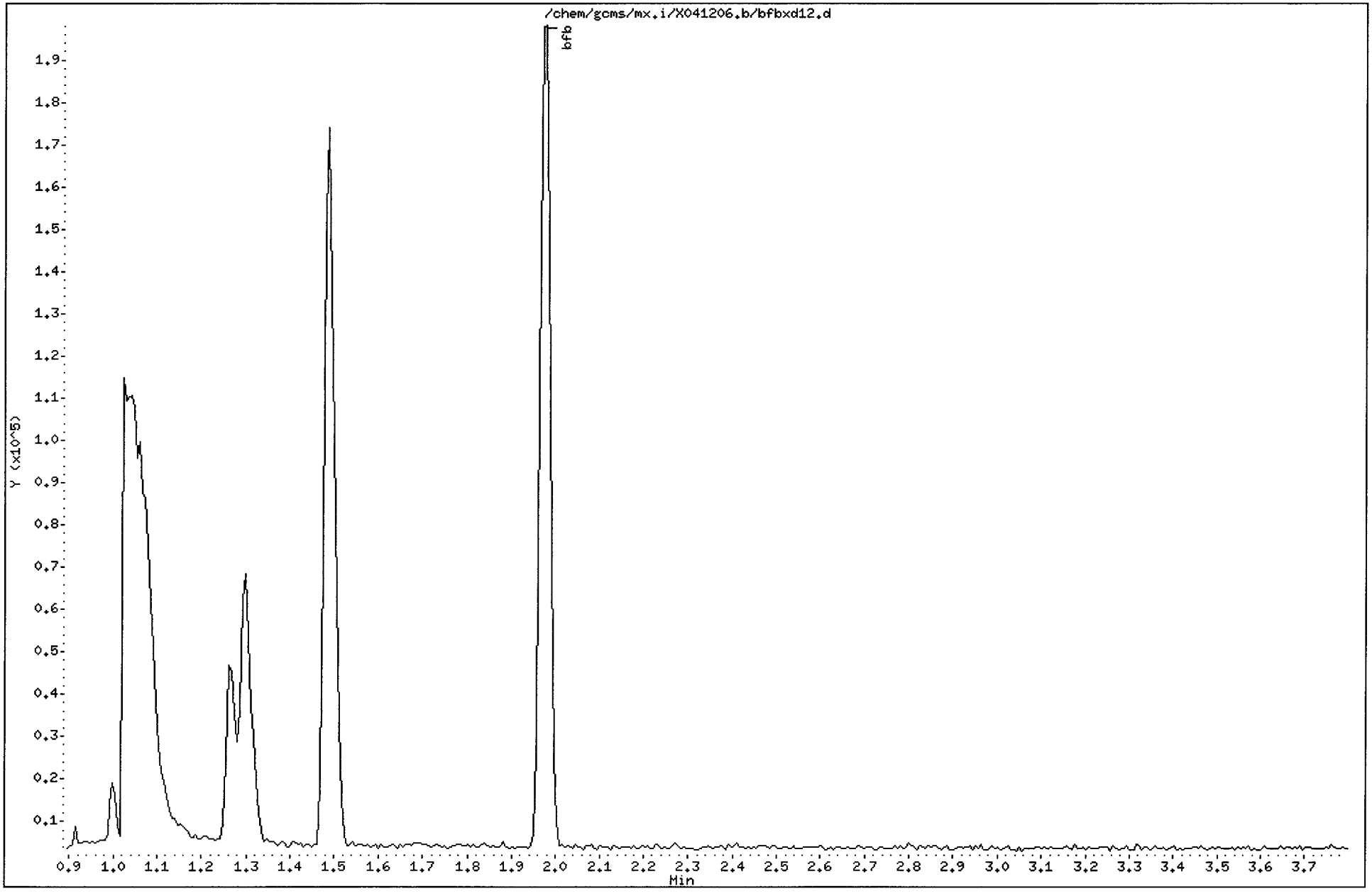
Data File: /chem/gcms/mx.i/X041206.b/bfbxd12.d
Date : 12-APR-2006 08:23
Client ID: TUNE
Sample Info: BFBXD12,1,3,,BFB,TUNE

Instrument: mx.i

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18



Data File: /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Report Date: 12-Apr-2006 11:24

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxd123.d
Analysis Type: WATER
Lab Sample ID: CCVXD123
Method: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m

Injection Date: 12-APR-2006 08:38
Init. Cal. Date(s): 15-FEB-2006 15-FEB-2006
Init. Cal. Times: 14:31 17:10
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.17002	0.16292	0.16292	0.000	4.17480	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.13253	0.14847	0.14847	0.000	-12.02904	50.00000	Averaged	
$ 6 Toluene-d8	4.89602	4.61680	4.61680	0.000	5.70309	50.00000	Averaged	
$ 7 4-Bromofluorobenzene	1.18566	1.11749	1.11749	0.000	5.74950	50.00000	Averaged	
M 8 1,2-Dichloroethene (total)	0.24107	0.23013	0.23013	0.000	4.53753	50.00000	Averaged	
M 9 Xylene (total)	2.34073	2.58210	2.58210	0.000	-10.31185	50.00000	Averaged	
10 Dichlorodifluoromethane	0.31656	0.31648	0.31648	0.000	0.02592	50.00000	Averaged	
11 Chloromethane (spcc)	0.46588	0.56931	0.56931	0.100	-22.20004	50.00000	Averaged	
12 Vinyl Chloride (ccc)	0.36353	0.39829	0.39829	0.000	-9.56112	19.00000	Averaged	
14 Bromomethane	0.14089	0.13426	0.13426	0.000	4.70529	50.00000	Averaged	
15 Chloroethane	0.19967	0.20434	0.20434	0.000	-2.33850	50.00000	Averaged	
17 Trichlorofluoromethane	0.39771	0.34490	0.34490	0.000	13.27717	50.00000	Averaged	
19 1,1-Dichloroethene (ccc)	0.20131	0.19747	0.19747	0.000	1.90684	19.00000	Averaged	
20 *Freon 113	0.17862	0.17127	0.17127	0.000	4.11640	50.00000	Averaged	
21 Acetone	0.01416	0.02386	0.02386	0.000	-68.48457	50.00000	Averaged	<-
22 *Iodomethane	0.25220	0.17258	0.17258	0.000	31.56883	50.00000	Averaged	
23 Carbon Disulfide	0.76211	0.85754	0.85754	0.000	-12.52144	50.00000	Averaged	
26 Methylene Chloride	0.15461	0.17223	0.17223	0.000	-11.39940	50.00000	Averaged	
28 *Acrylonitrile	0.01987	0.02521	0.02521	0.000	-26.87060	50.00000	Averaged	
29 trans-1,2-Dichloroethene	0.24401	0.24166	0.24166	0.000	0.96398	50.00000	Averaged	
32 1,1-Dichloroethane (spcc)	0.48414	0.48951	0.48951	0.100	-1.10899	50.00000	Averaged	
33 *Vinyl Acetate	0.01138	0.01322	0.01322	0.000	-16.17966	50.00000	Averaged	
34 2,2-Dichloropropane	0.43895	0.36944	0.36944	0.000	15.83630	50.00000	Averaged	
35 cis 1,2-Dichloroethene	0.22895	0.21860	0.21860	0.000	4.52067	50.00000	Averaged	
36 2-Butanone	0.02209	0.03064	0.03064	0.000	-38.70978	50.00000	Averaged	
37 Bromochloromethane	0.06020	0.05617	0.05617	0.000	6.69346	50.00000	Averaged	
38 *THF	0.01354	0.01843	0.01843	0.000	-36.12759	50.00000	Averaged	
39 Chloroform (ccc)	0.38007	0.38806	0.38806	0.000	-2.10194	19.00000	Averaged	
40 1,1,1-Trichloroethane	0.42492	0.42642	0.42642	0.000	-0.35363	50.00000	Averaged	
41 Carbon Tetrachloride	0.35897	0.34686	0.34686	0.000	3.37356	50.00000	Averaged	
42 1,1-Dichloropropene	0.39592	0.40014	0.40014	0.000	-1.06412	50.00000	Averaged	
43 Benzene	1.01276	1.03242	1.03242	0.000	-1.94155	50.00000	Averaged	
44 1,2-Dichloroethane	0.17043	0.18985	0.18985	0.000	-11.39648	50.00000	Averaged	
45 Trichloroethene	0.27175	0.25618	0.25618	0.000	5.73060	50.00000	Averaged	
46 1,2-Dichloropropane (ccc)	0.21365	0.23040	0.23040	0.000	-7.84328	19.00000	Averaged	

Data File: /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Report Date: 12-Apr-2006 11:24

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxd123.d
Analysis Type: WATER
Lab Sample ID: CCVXD123
Method: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m

Injection Date: 12-APR-2006 08:38
Init. Cal. Date(s): 15-FEB-2006 15-FEB-2006
Init. Cal. Times: 14:31 17:10
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 Dibromomethane	0.05671	0.05913	0.05913	0.000	-4.27213	50.00000	Averaged
49 Bromodichloromethane	0.21218	0.22451	0.22451	0.000	-5.81215	50.00000	Averaged
51 cis-1,3-Dichloropropene	0.24849	0.25676	0.25676	0.000	-3.32864	50.00000	Averaged
52 4-Methyl-2-pentanone	0.05291	0.07671	0.07671	0.000	-44.99330	50.00000	Averaged
53 Toluene (ccc)	5.85760	5.95799	5.95799	0.000	-1.71373	19.00000	Averaged
54 trans-1,3-Dichloropropene	1.02664	0.90246	0.90246	0.000	12.09615	50.00000	Averaged
56 1,1,2-Trichloroethane	0.46271	0.41344	0.41344	0.000	10.64762	50.00000	Averaged
57 Tetrachloroethene	1.25859	1.20820	1.20820	0.000	4.00387	50.00000	Averaged
58 1,3-Dichloropropane	0.88264	0.82749	0.82749	0.000	6.24796	50.00000	Averaged
59 2-Hexanone	0.19574	0.25766	0.25766	0.000	-31.63279	50.00000	Averaged
60 Chlorodibromomethane	0.57328	0.53657	0.53657	0.000	6.40408	50.00000	Averaged
61 1,2-Dibromoethane	0.43092	0.38522	0.38522	0.000	10.60383	50.00000	Averaged
62 Chlorobenzene (spcc)	3.00692	3.15713	3.15713	0.300	-4.99528	50.00000	Averaged
63 1,1,1,2-Tetrachloroethane	0.98962	0.89878	0.89878	0.000	9.17956	50.00000	Averaged
64 Ethylbenzene (ccc)	2.06803	2.28497	2.28497	0.000	-10.49015	19.00000	Averaged
65 m&p-Xylene	2.42362	2.70671	2.70671	0.000	-11.68041	50.00000	Averaged
66 o-Xylene	2.07775	2.33288	2.33288	0.000	-12.27956	50.00000	Averaged
67 Styrene	2.97838	3.20230	3.20230	0.000	-7.51795	50.00000	Averaged
68 Bromoform (spcc)	0.27707	0.27912	0.27912	0.100	-0.73918	50.00000	Averaged
69 Isopropylbenzene	6.66384	7.47067	7.47067	0.000	-12.10759	50.00000	Averaged
71 Bromobenzene	0.94134	1.04766	1.04766	0.000	-11.29456	50.00000	Averaged
72 1,1,2,2-Tetrachloroethane(s	0.36738	0.41902	0.41902	0.300	-14.05658	50.00000	Averaged
73 1,2,3-Trichloropropane	0.09335	0.09351	0.09351	0.000	-0.17178	50.00000	Averaged
75 n-Propylbenzene	6.87900	7.61434	7.61434	0.000	-10.68959	50.00000	Averaged
76 2-Chlorotoluene	3.53018	3.72986	3.72986	0.000	-5.65638	50.00000	Averaged
77 1,3,5-Trimethylbenzene	3.71686	4.46526	4.46526	0.000	-20.13541	50.00000	Averaged
78 4-Chlorotoluene	3.72246	4.10406	4.10406	0.000	-10.25124	50.00000	Averaged
79 tert-Butylbenzene	3.92421	4.08510	4.08510	0.000	-4.09993	50.00000	Averaged
80 1,2,4-Trimethylbenzene	3.22636	4.09426	4.09426	0.000	-26.90038	50.00000	Averaged
81 sec-Butylbenzene	5.69974	6.20024	6.20024	0.000	-8.78118	50.00000	Averaged
82 1,3-Dichlorobenzene	1.68484	1.81433	1.81433	0.000	-7.68618	50.00000	Averaged
83 p-Isopropyltoluene	4.54682	5.04064	5.04064	0.000	-10.86086	50.00000	Averaged
84 1,4-Dichlorobenzene	1.52586	1.69078	1.69078	0.000	-10.80833	50.00000	Averaged
85 1,2-Dichlorobenzene	1.20943	1.27962	1.27962	0.000	-5.80356	50.00000	Averaged
86 n-Butylbenzene	3.99866	5.13415	5.13415	0.000	-28.39667	50.00000	Averaged

Data File: /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Report Date: 12-Apr-2006 11:24

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mx.i
Lab File ID: ccvxd123.d
Analysis Type: WATER
Lab Sample ID: CCVXD123
Method: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m

Injection Date: 12-APR-2006 08:38
Init. Cal. Date(s): 15-FEB-2006 15-FEB-2006
Init. Cal. Times: 14:31 17:10
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
87 1,2-Dibromo-3-chloropropane	0.04981	0.04379	0.04379	0.000	12.09270	50.00000	Averaged	
88 1,2,4-Trichlorobenzene	0.59486	0.73995	0.73995	0.000	-24.39050	50.00000	Averaged	
89 Hexachlorobutadiene	0.98373	0.81567	0.81567	0.000	17.08405	50.00000	Averaged	
90 Napthalene	0.43389	0.66420	0.66420	0.000	-53.08142	50.00000	Averaged	<-
91 1,2,3-Trichlorobenzene	0.38406	0.47202	0.47202	0.000	-22.90360	50.00000	Averaged	

Data File: /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Report Date: 12-Apr-2006 11:24

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Lab Smp Id: CCVXD123 Client Smp ID: VSTD010
Inj Date : 12-APR-2006 08:38
Operator : 22980 Inst ID: mx.i
Smp Info : CCVXD123,1,2,3,,VSTD010
Misc Info : X041206,8260B_LM,1-all.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 12-Apr-2006 11:24 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.851	4.851	(1.000)	977885	10.0000	
* 2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	201795	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.740	10.740	(1.000)	245212	10.0000	
$ 4 Dibromofluoromethane	113	4.273	4.273	(0.881)	159319	10.0000	9.5825
$ 5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	145187	10.0000	11.203
$ 6 Toluene-d8	98	6.250	6.250	(0.824)	931647	10.0000	9.4297
$ 7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	274023	10.0000	9.4250
M 8 1,2-Dichloroethene (total)	96				450077	20.0000	19.452
M 9 Xylene (total)	106				1563167	30.0000	33.564
10 Dichlorodifluoromethane	85	1.128	1.128	(0.232)	309478	10.0000	9.9974
11 Chloromethane (spcc)	50	1.255	1.255	(0.259)	556718	10.0000	12.220
12 Vinyl Chloride (ccc)	62	1.334	1.334	(0.275)	389483	10.0000	10.956
14 Bromomethane	94	1.584	1.584	(0.327)	131293	10.0000	9.5295
15 Chloroethane	64	1.669	1.669	(0.344)	199821	10.0000	10.234

Data File: /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Report Date: 12-Apr-2006 11:24

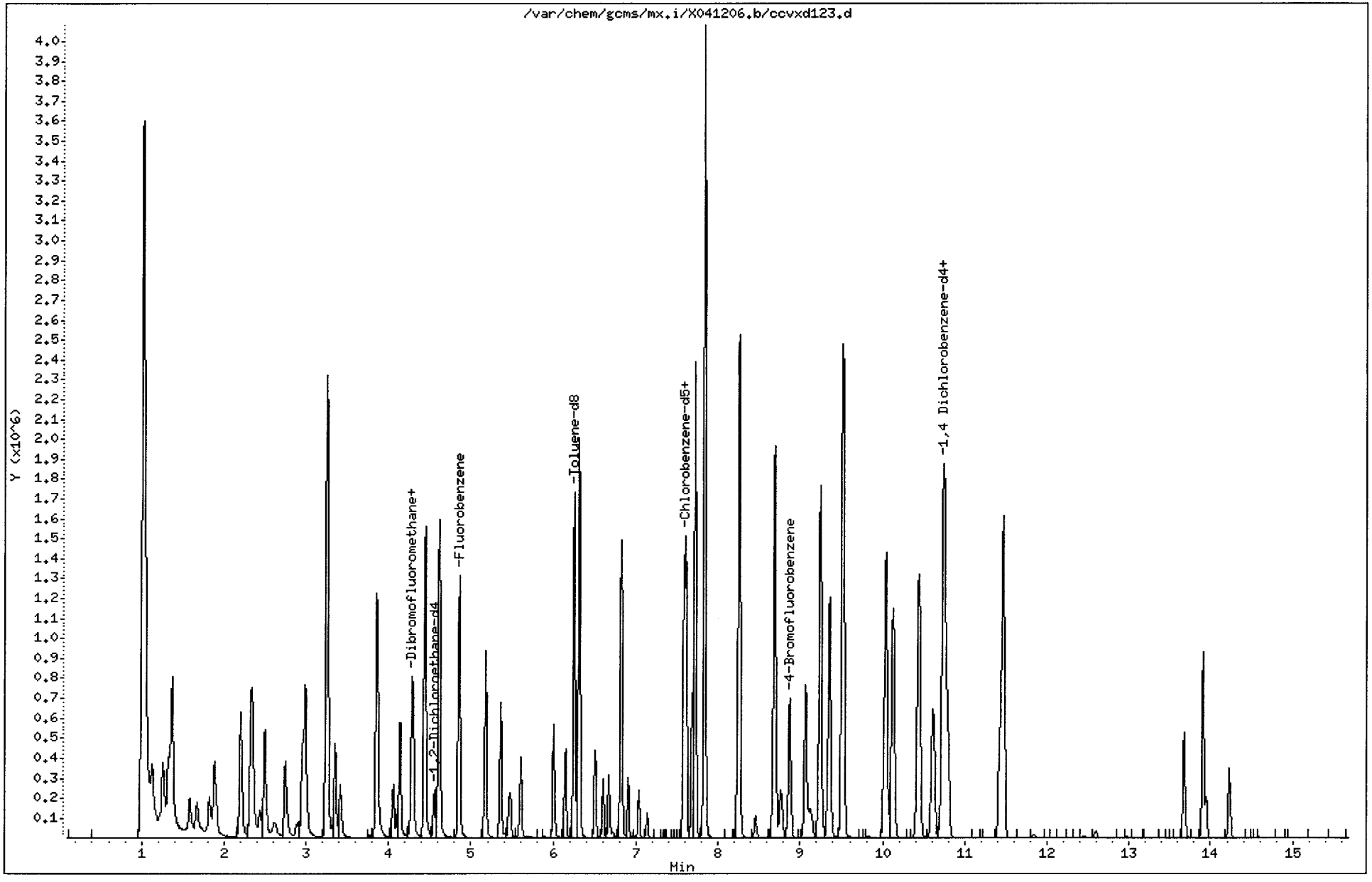
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Trichlorofluoromethane	101	1.882	1.882	(0.388)	337273	10.0000	8.6723
19 1,1-Dichloroethene (ccc)	96	2.326	2.326	(0.480)	193103	10.0000	9.8093
20 *Freon 113	151	2.344	2.344	(0.483)	167482	10.0000	9.5884
21 Acetone	43	2.381	2.381	(0.491)	93341	40.0000	67.394
22 *Iodomethane	142	2.436	2.436	(0.502)	168765	10.0000	6.8431
23 Carbon Disulfide	76	2.496	2.496	(0.515)	838578	10.0000	11.252
26 Methylene Chloride	84	2.746	2.746	(0.566)	168422	10.0000	11.140
28 *Acrylonitrile	53	2.959	2.959	(0.610)	493032	200.000	253.74
29 trans-1,2-Dichloroethene	96	2.989	2.989	(0.616)	236314	10.0000	9.9036
32 1,1-Dichloroethane (spcc)	63	3.348	3.348	(0.690)	478683	10.0000	10.111
33 *Vinyl Acetate	86	3.421	3.421	(0.705)	25847	20.0000	23.236
34 2,2-Dichloropropane	77	3.853	3.853	(0.794)	361267	10.0000	8.4164
35 cis 1,2-Dichloroethene	96	3.859	3.859	(0.796)	213762	10.0000	9.5479
36 2-Butanone	43	3.871	3.871	(0.798)	119866	40.0000	55.484
37 Bromochloromethane	128	4.054	4.054	(0.836)	54928	10.0000	9.3306
38 *THF	42	4.109	4.109	(0.847)	72086	40.0000	54.451
39 Chloroform (ccc)	83	4.139	4.139	(0.853)	379481	10.0000	10.210
40 1,1,1-Trichloroethane	97	4.291	4.291	(0.885)	416991	10.0000	10.035
41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	339192	10.0000	9.6626
42 1,1-Dichloropropene	75	4.437	4.437	(0.915)	391289	10.0000	10.106
43 Benzene	78	4.607	4.607	(0.950)	1009591	10.0000	10.194
44 1,2-Dichloroethane	62	4.620	4.620	(0.952)	185650	10.0000	11.140
45 Trichloroethene	130	5.173	5.173	(1.066)	250512	10.0000	9.4269
46 1,2-Dichloropropane (ccc)	63	5.362	5.362	(1.105)	225308	10.0000	10.784
48 Dibromomethane	93	5.459	5.459	(1.125)	57826	10.0000	10.427
49 Bromodichloromethane	83	5.605	5.605	(1.155)	219546	10.0000	10.581
51 cis-1,3-Dichloropropene	75	6.007	6.007	(1.238)	251078	10.0000	10.333
52 4-Methyl-2-pentanone	43	6.147	6.147	(1.267)	300073	40.0000	57.997
53 Toluene (ccc)	91	6.311	6.311	(0.832)	1202294	10.0000	10.171
54 trans-1,3-Dichloropropene	75	6.505	6.505	(0.858)	182111	10.0000	8.7904
56 1,1,2-Trichloroethane	97	6.670	6.670	(0.880)	83430	10.0000	8.9352
57 Tetrachloroethene	164	6.816	6.816	(0.899)	243808	10.0000	9.5996
58 1,3-Dichloropropane	76	6.822	6.822	(0.900)	166983	10.0000	9.3752
59 2-Hexanone	43	6.901	6.901	(0.910)	207977	40.0000	52.653
60 Chlorodibromomethane	129	7.035	7.035	(0.928)	108277	10.0000	9.3596
61 1,2-Dibromoethane	107	7.132	7.132	(0.941)	77736	10.0000	8.9396
62 Chlorobenzene (spcc)	112	7.607	7.607	(1.003)	637093	10.0000	10.500
63 1,1,1,2-Tetrachloroethane	131	7.686	7.686	(1.014)	181368	10.0000	9.0820
64 Ethylbenzene (ccc)	106	7.716	7.716	(1.018)	461095	10.0000	11.049
65 m&p-Xylene	106	7.832	7.832	(1.033)	1092402	20.0000	22.336
66 o-Xylene	106	8.251	8.251	(1.088)	470764	10.0000	11.228
67 Styrene	104	8.264	8.264	(1.090)	646208	10.0000	10.752
68 Bromoform (spcc)	173	8.458	8.458	(1.116)	56325	10.0000	10.074
69 Isopropylbenzene	105	8.689	8.689	(1.146)	1507547	10.0000	11.211
71 Bromobenzene	156	9.067	9.067	(1.196)	211413	10.0000	11.129
72 1,1,2,2-Tetrachloroethane(sp)	83	9.060	9.060	(1.195)	84556	10.0000	11.406
73 1,2,3-Trichloropropane	110	9.115	9.115	(0.849)	22931	10.0000	10.017

Data File: /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Report Date: 12-Apr-2006 11:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
75 n-Propylbenzene	91	9.243	9.243	(0.861)	1867133	10.0000	11.069
76 2-Chlorotoluene	91	9.353	9.353	(0.871)	914608	10.0000	10.566
77 1,3,5-Trimethylbenzene	105	9.511	9.511	(0.886)	1094940	10.0000	12.014
78 4-Chlorotoluene	91	9.517	9.517	(0.886)	1006368	10.0000	11.025
79 tert-Butylbenzene	119	10.034	10.034	(0.934)	1001720	10.0000	10.410
80 1,2,4-Trimethylbenzene	105	10.119	10.119	(0.942)	1003965	10.0000	12.690
81 sec-Butylbenzene	105	10.435	10.435	(0.972)	1520379	10.0000	10.878
82 1,3-Dichlorobenzene	146	10.612	10.612	(0.988)	444898	10.0000	10.769
83 p-Isopropyltoluene	119	10.733	10.733	(0.999)	1236030	10.0000	11.086
84 1,4-Dichlorobenzene	146	10.788	10.788	(1.005)	414599	10.0000	11.081
85 1,2-Dichlorobenzene	146	11.427	11.427	(1.064)	313778	10.0000	10.580
86 n-Butylbenzene	91	11.470	11.470	(1.068)	1258959	10.0000	12.840
87 1,2-Dibromo-3-chloropropane	157	12.595	12.595	(1.173)	10737	10.0000	8.7907
88 1,2,4-Trichlorobenzene	180	13.672	13.672	(1.273)	181445	10.0000	12.439
89 Hexachlorobutadiene	225	13.903	13.903	(1.295)	200011	10.0000	8.2916
90 Napthalene	128	13.946	13.946	(1.299)	162871	10.0000	15.308
91 1,2,3-Trichlorobenzene	180	14.225	14.225	(1.325)	115746	10.0000	12.290

Data File: /var/chem/gcms/mx.i/X041206.b/ccvxd123.d
Date : 12-APR-2006 08:38
Client ID: VSTD010
Sample Info: CCVXD123,1,2,3,,VSTD010
Purge Volume: 25.0
Column phase: J+W 624

Instrument: mx.i
Operator: 22980
Column diameter: 0.18



Raw QC Data

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AA **Matrix.....:** AIR
MB Lot-Sample #: H6D120000-057

Prep Date.....: 04/12/06
Analysis Date..: 04/12/06 **Prep Batch #...:** 6102057
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	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 #...: H6D120117 **Work Order #...:** H229G1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	0.025	ug	SW846 VOST
2-Hexanone	ND	0.10	ug	SW846 VOST
Iodomethane	ND	0.050	ug	SW846 VOST
Isopropylbenzene	ND	0.010	ug	SW846 VOST
p-Isopropyltoluene	ND	0.010	ug	SW846 VOST
Methylene chloride	ND	0.025	ug	SW846 VOST
4-Methyl-2-pentanone	ND	0.10	ug	SW846 VOST
Naphthalene	ND	0.025	ug	SW846 VOST
n-Propylbenzene	ND	0.010	ug	SW846 VOST
Styrene	ND	0.010	ug	SW846 VOST
1,1,1,2-Tetrachloroethane	ND	0.010	ug	SW846 VOST
1,1,2,2-Tetrachloroethane	ND	0.025	ug	SW846 VOST
Tetrachloroethene	ND	0.010	ug	SW846 VOST
Tetrahydrofuran	**0.031 J**	**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	96	(50 - 134)
1,2-Dichloroethane-d4	101	(50 - 134)
Toluene-d8	79	(57 - 127)
Bromofluorobenzene	71	(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 #: H6D120000-057 B **Work Order #:** H229G1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d
Report Date: 12-Apr-2006 11:11

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X041206.b/h229g1aa.d
Lab Smp Id: H229G1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 12-APR-2006 10:48
Operator : 22980 Inst ID: mx.i
Smp Info : H229G1AA,1,3,,,BLK
Misc Info : X041206,8260B_LM,thor.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 12-Apr-2006 11:00 gosss Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 6 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.852	4.851	(1.000)	805506	10.0000	
* 2 Chlorobenzene-d5	119	7.578	7.582	(1.000)	201761	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.741	10.740	(1.000)	267230	10.0000	
$ 4 Dibromofluoromethane	113	4.268	4.273	(0.880)	131334	9.58977	0.23974
$ 5 1,2-Dichloroethane-d4	65	4.554	4.553	(0.939)	107529	10.0727	0.25182
$ 6 Toluene-d8	98	6.251	6.250	(0.825)	775469	7.85023	0.19626
$ 7 4-Bromofluorobenzene	95	8.873	8.872	(0.826)	224638	7.08983	0.17724
11 Chloromethane (spcc)	50	1.251	1.255	(0.258)	3153	0.08404	0.0021009
21 Acetone	43	2.394	2.381	(0.493)	4321	3.78830	0.094708
36 2-Butanone	43	3.885	3.871	(0.801)	950	~~0.53410~~	~~0.013352~~
38 *THF	42	4.110	4.109	(0.847)	1355	1.24277	0.031069
42 1,1-Dichloropropene	75	4.852	4.437	(1.000)	62369	~~1.95563~~	~~0.048891~~
44 1,2-Dichloroethane	62	4.846	4.620	(0.999)	14808	~~1.07868~~	~~0.026967~~
52 4-Methyl-2-pentanone	43	6.245	6.147	(1.287)	5757	~~1.35102~~	~~0.033776~~
90 Napthalene	128	13.947	13.946	(1.298)	1514	0.13058	0.0032644

4/17/06

Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d
Report Date: 12-Apr-2006 11:11

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h229g1aa.d
Lab Smp Id: H229G1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,thor.sub

Calibration Date: 12-APR-2006
Calibration Time: 08:38
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	977885	488942	1955770	805506	-17.63
2 Chlorobenzene-d5	201795	100898	403590	201761	-0.02
3 1,4 Dichlorobenze	245212	122606	490424	267230	8.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.03
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.06
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.74	0.01

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

Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d
Report Date: 12-Apr-2006 11:11

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: H229G1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Method File: /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,thor.sub

Client SDG: H6D120000
Fraction: VOA
Client Smp ID: INTRA-LAB BLANK
Operator: 22980
SampleType: METHOD BLANK
Quant Type: ISTD

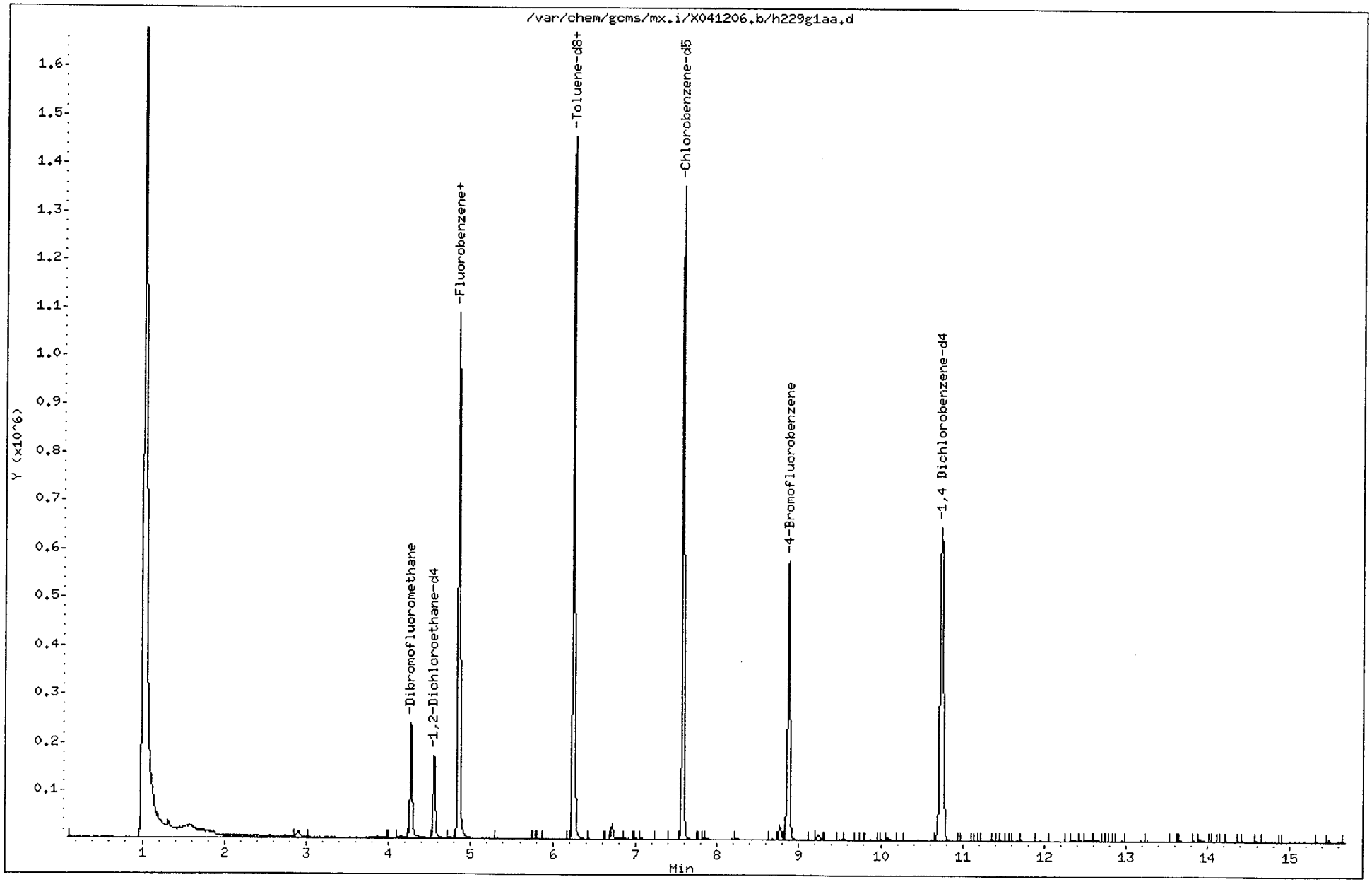
SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	0.25000	0.23974	95.90	50-150
$ 5 1,2-Dichloroethane	0.25000	0.25182	100.73	50-150
$ 6 Toluene-d8	0.25000	0.19626	78.50	50-150
$ 7 4-Bromofluorobenze	0.25000	0.17724	70.90	50-150

Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d
Date : 12-APR-2006 10:48
Client ID: INTRA-LAB BLANK
Sample Info: H229G1AA,1,3,,,BLK

Instrument: mx.i

Operator: 22980
Column diameter: 0.18

Column phase: J+W 624



Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

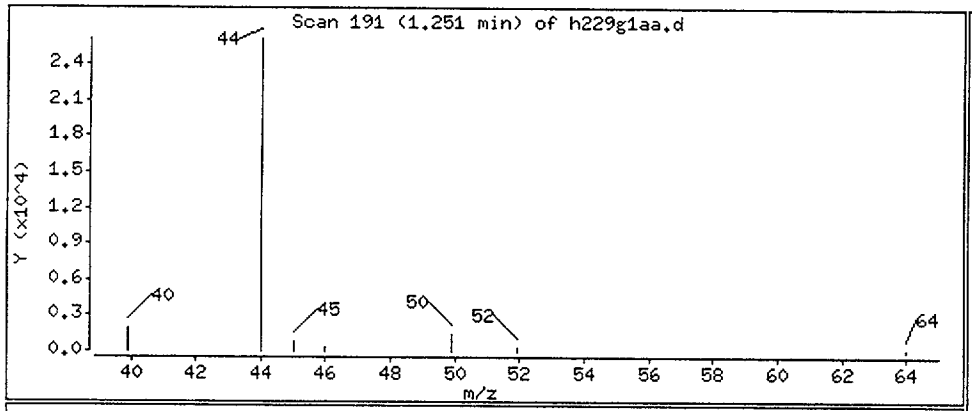
Operator: 22980

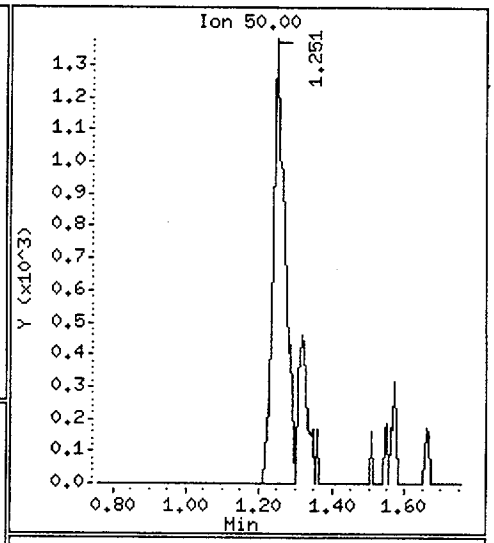
Column phase: J+W 624

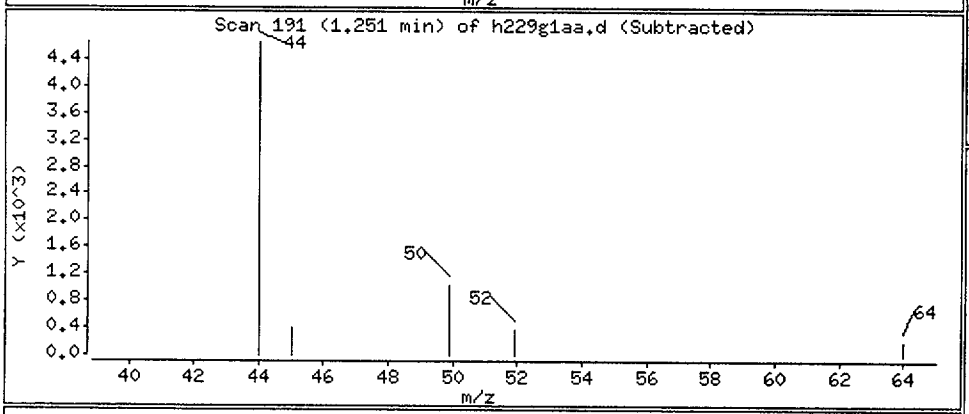
Column diameter: 0.18

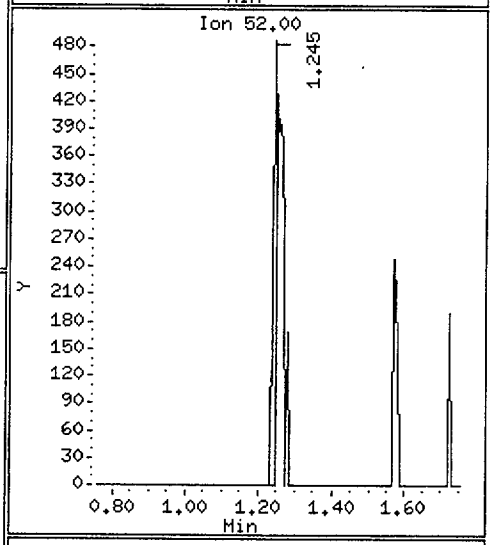
11 Chloromethane (spcc)

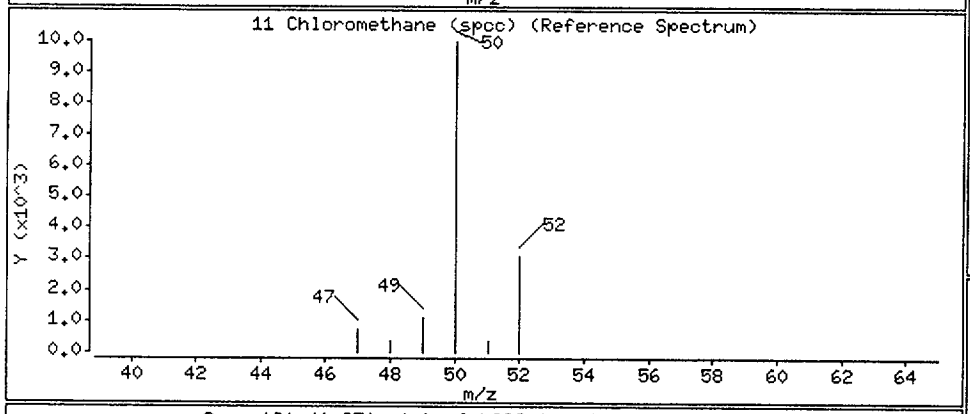
Concentration: 0.0021009 ug

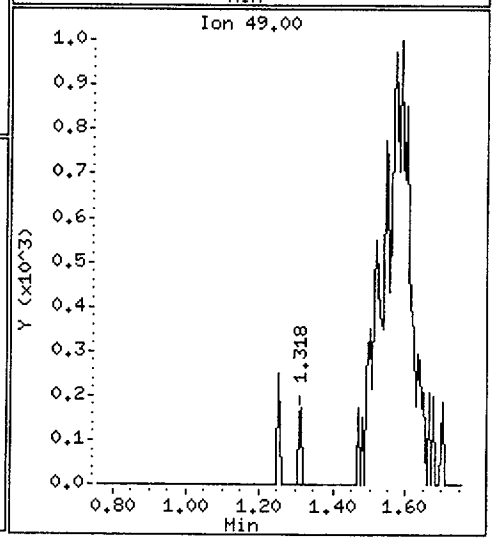


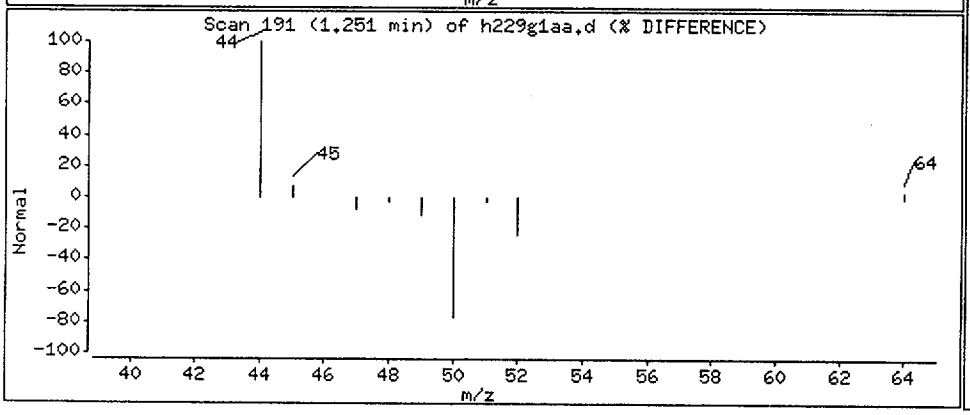












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

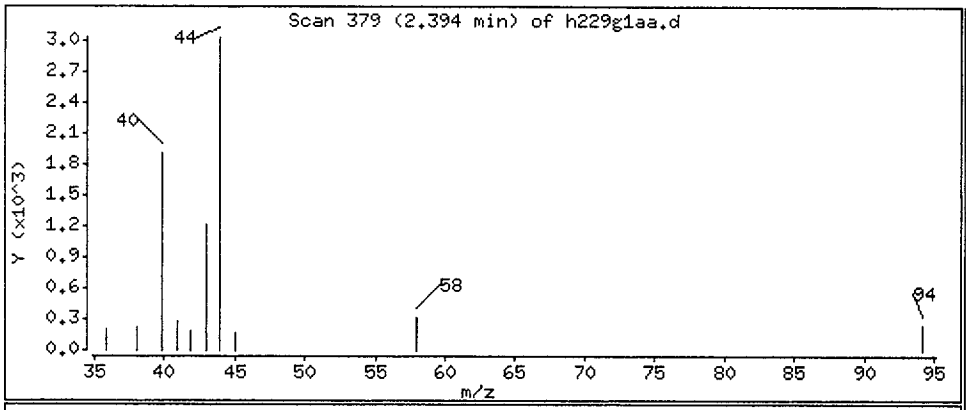
Operator: 22980

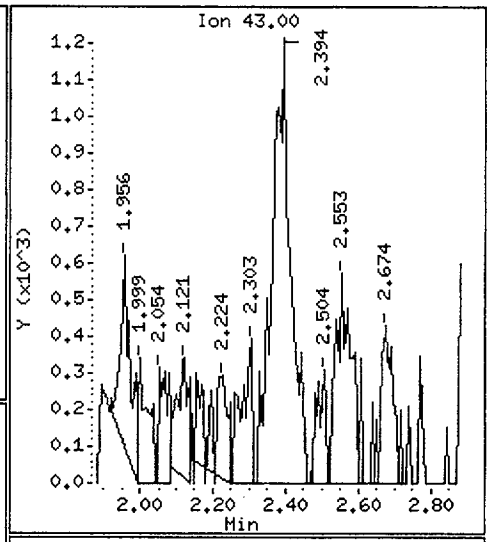
Column phase: J+W 624

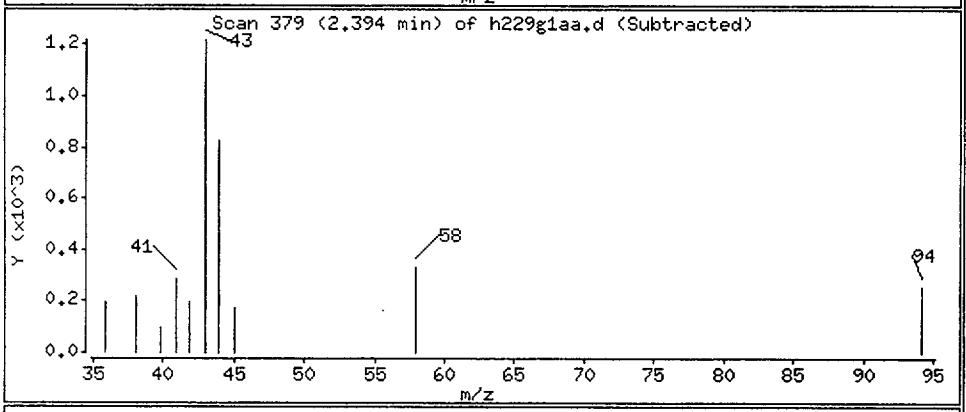
Column diameter: 0.18

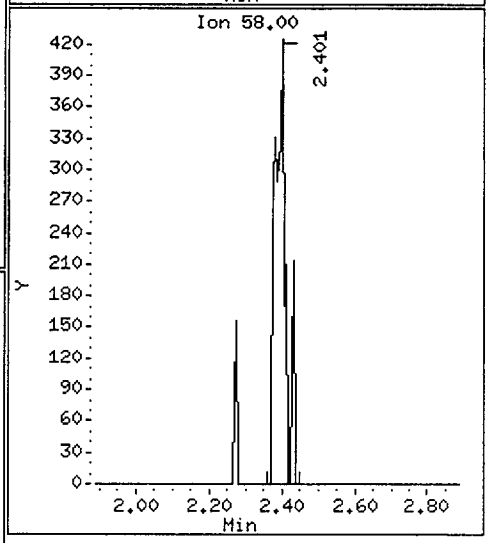
21 Acetone

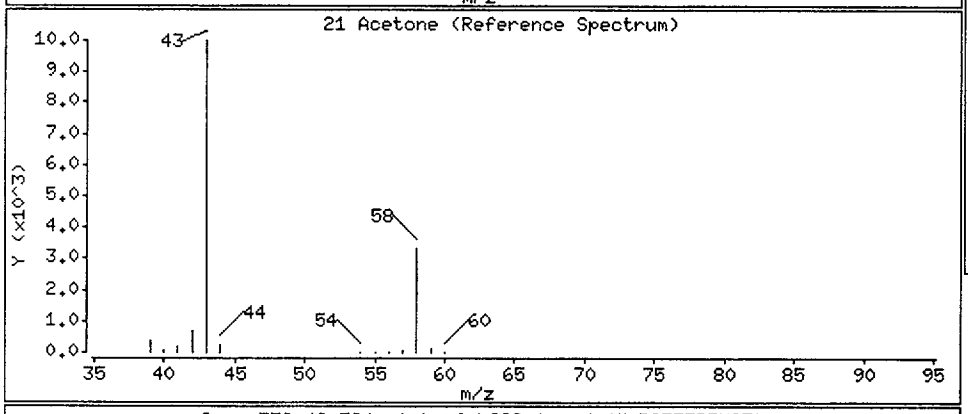
Concentration: 0.094708 ug

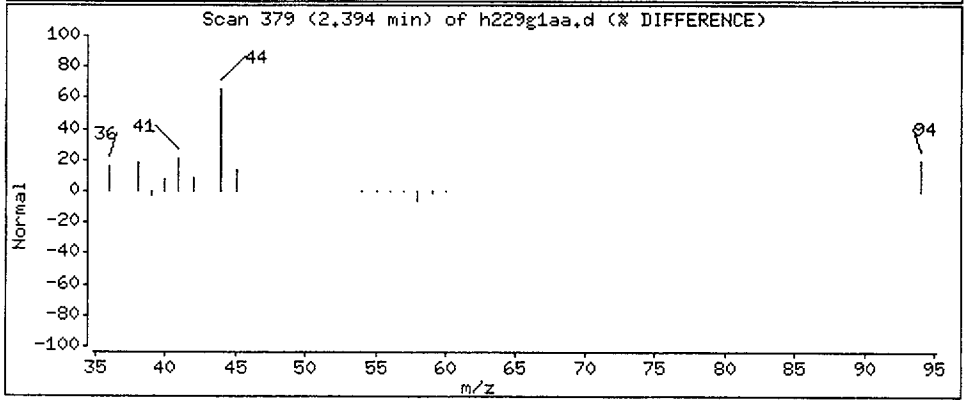












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

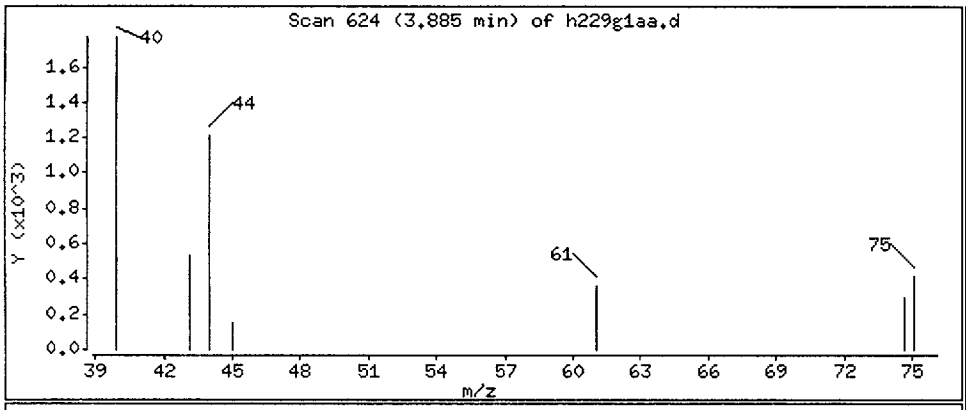
Operator: 22980

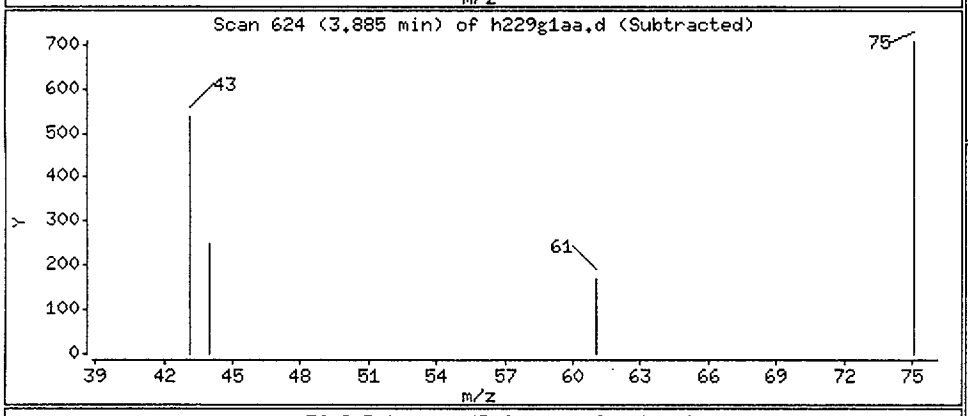
Column phase: J+W 624

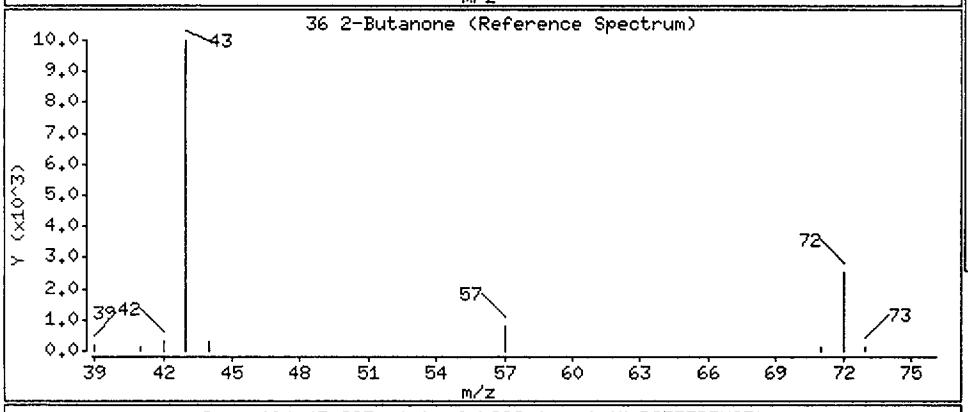
Column diameter: 0.18

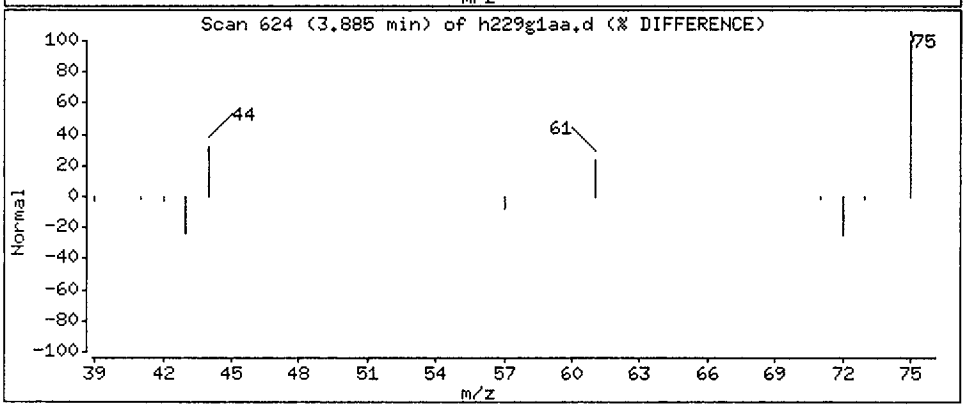
36 2-Butanone

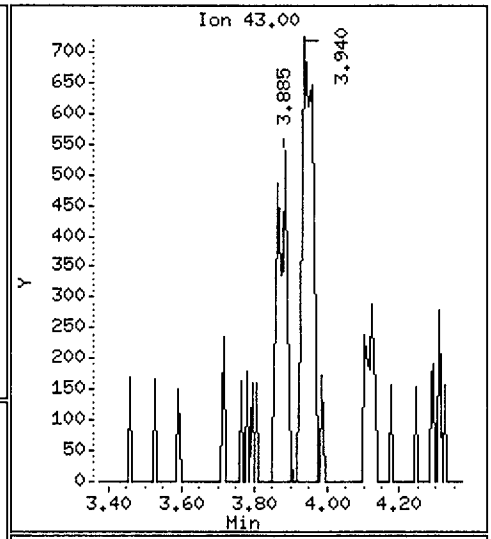
Concentration: 0.013352 ug

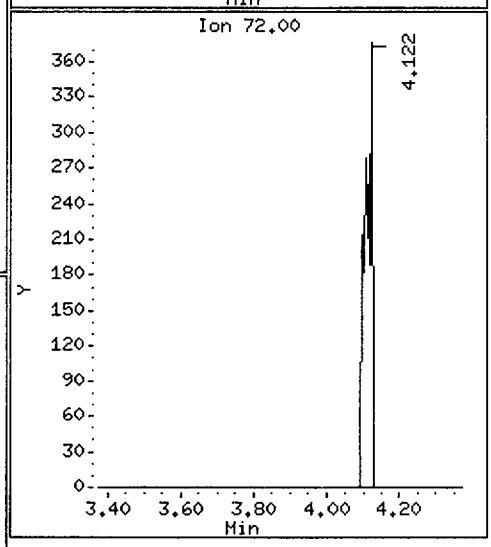












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

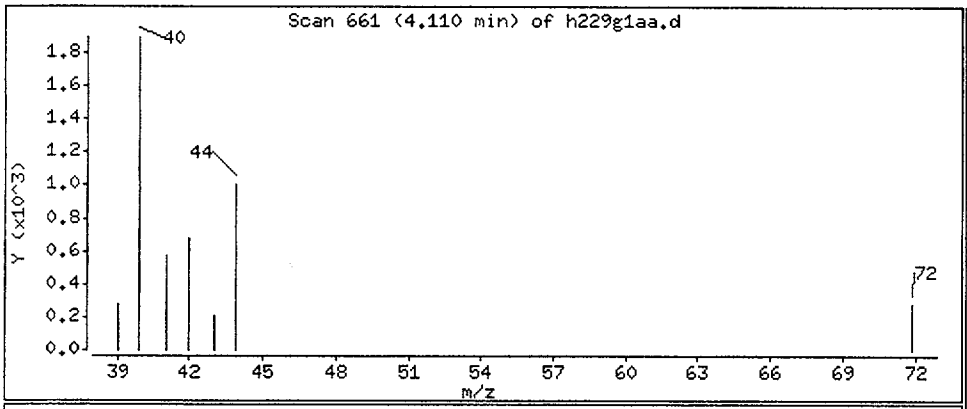
Operator: 22980

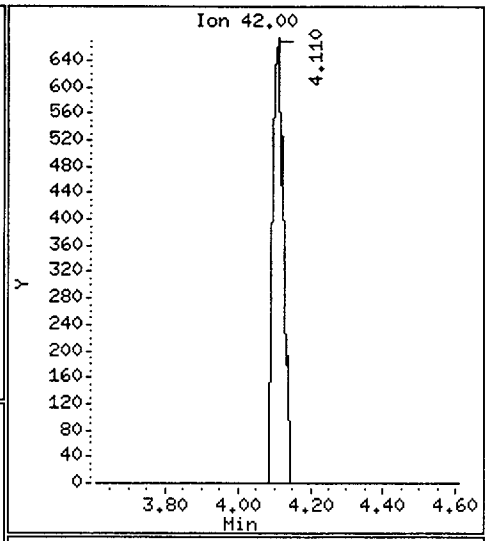
Column phase: J+W 624

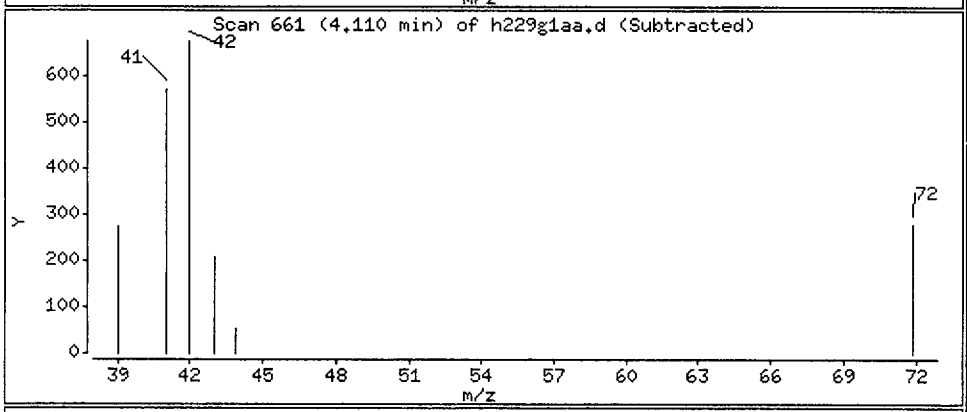
Column diameter: 0.18

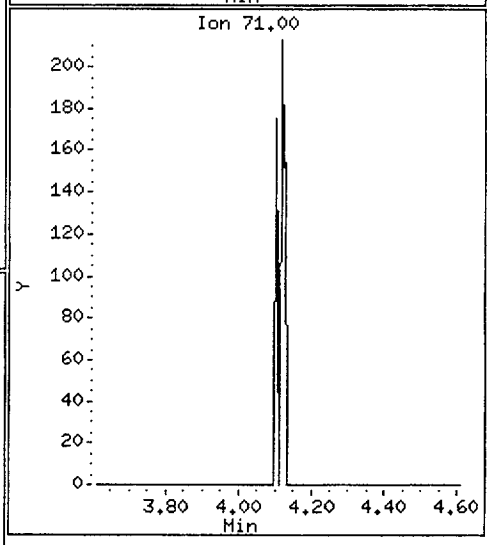
38 *THF

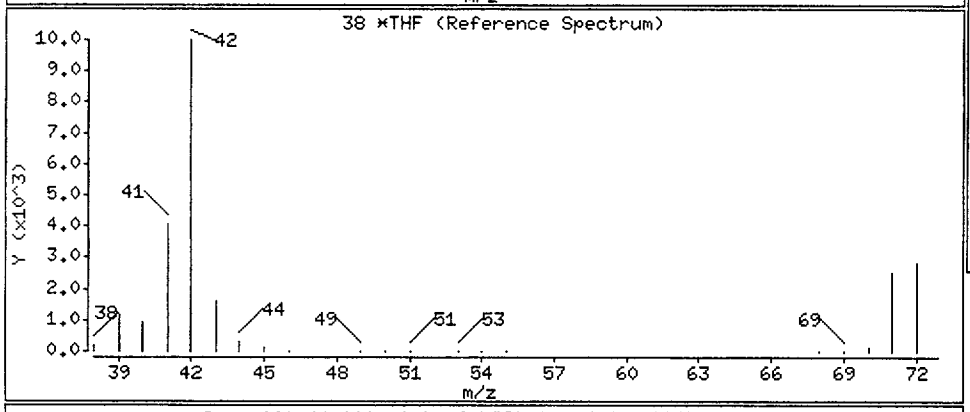
Concentration: 0.031069 ug

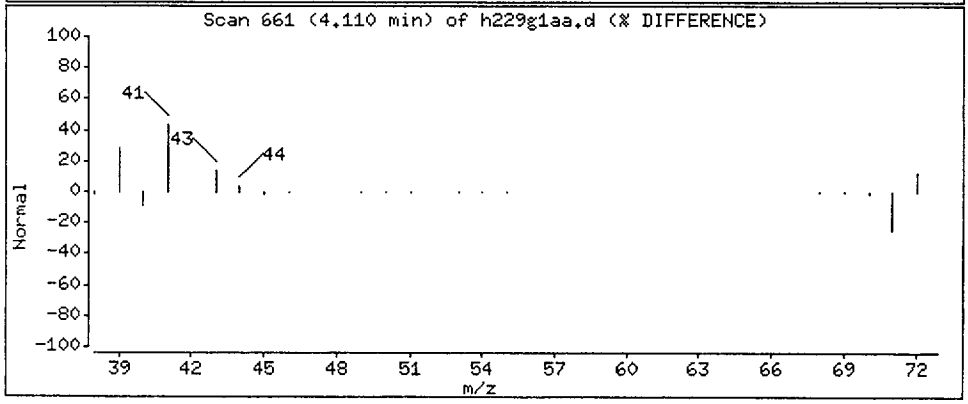












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

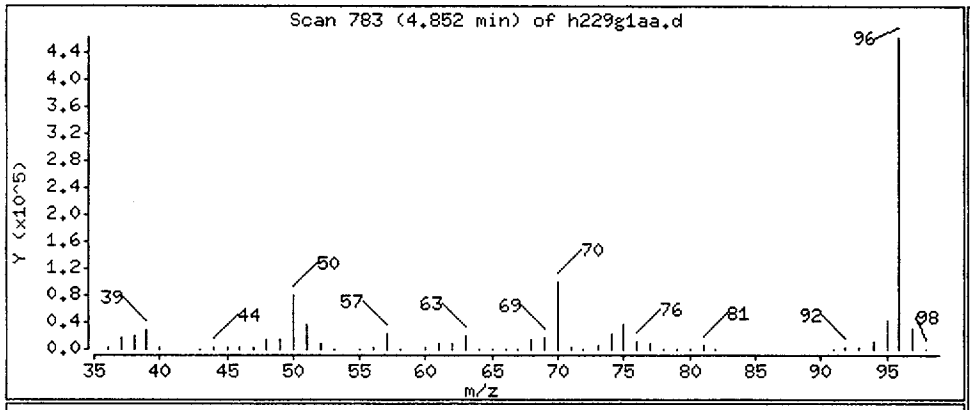
Operator: 22980

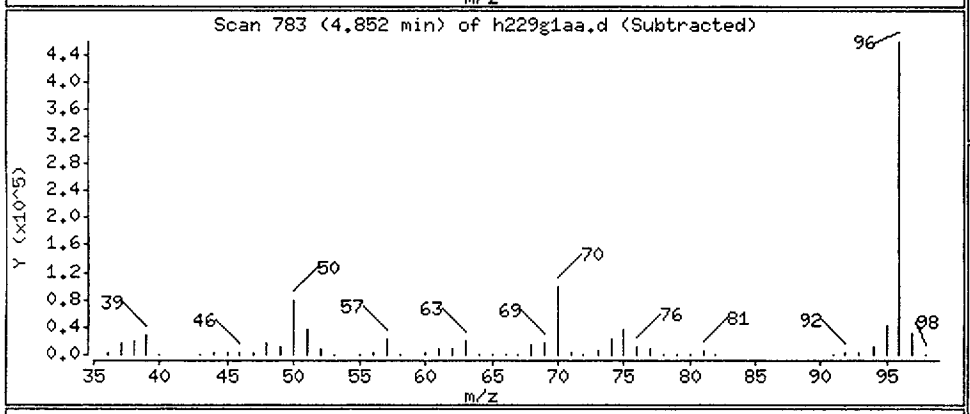
Column phase: J+W 624

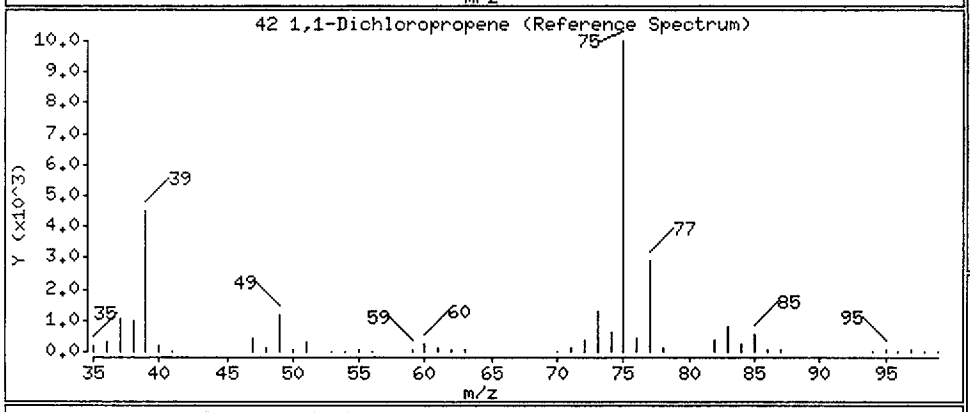
Column diameter: 0.18

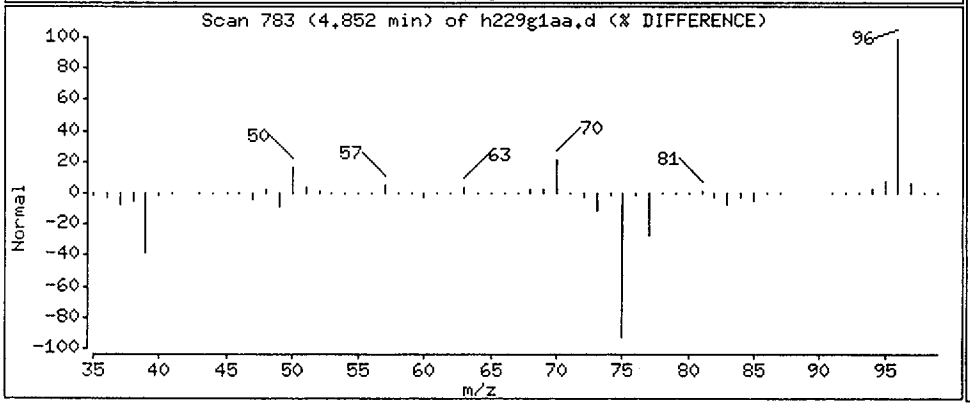
42 1,1-Dichloropropene

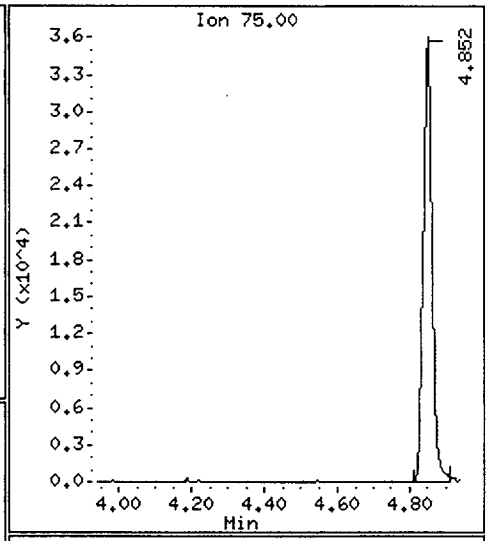
Concentration: 0.048891 ug

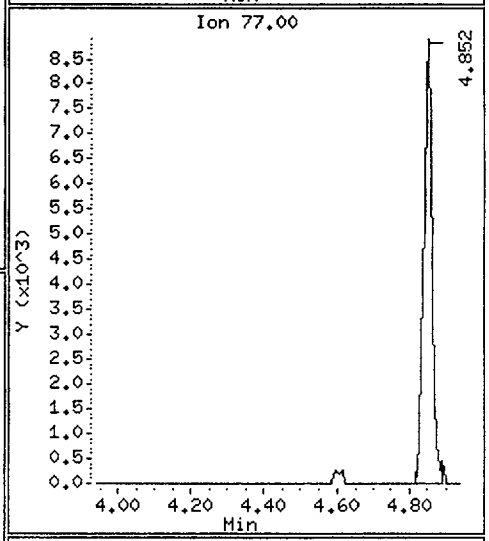


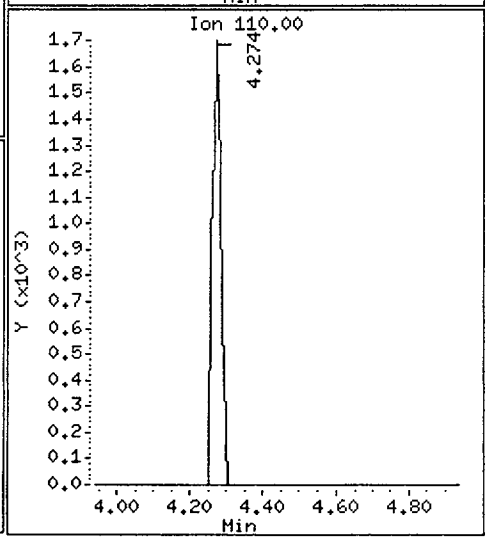












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

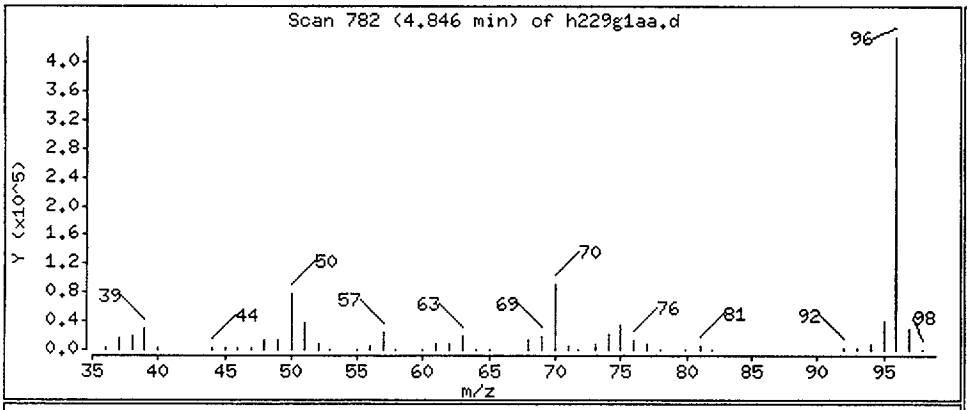
Operator: 22980

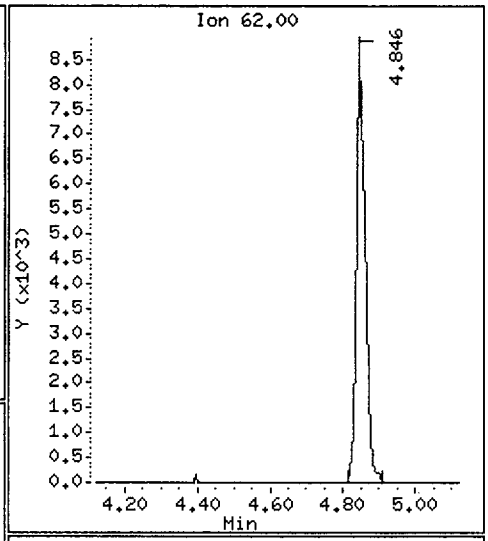
Column phase: J+W 624

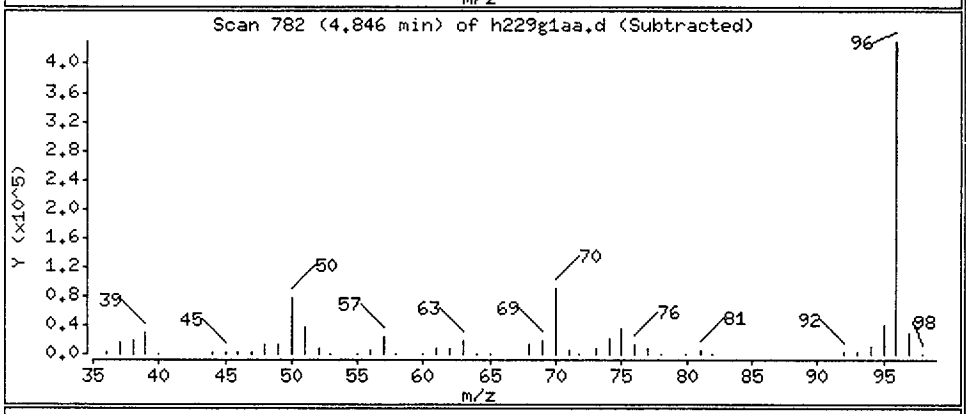
Column diameter: 0.18

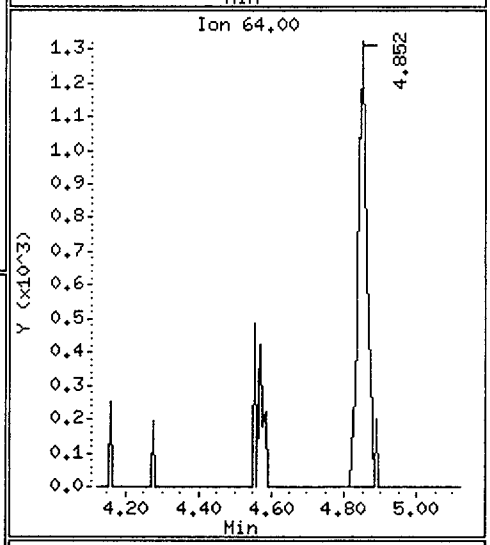
44 1,2-Dichloroethane

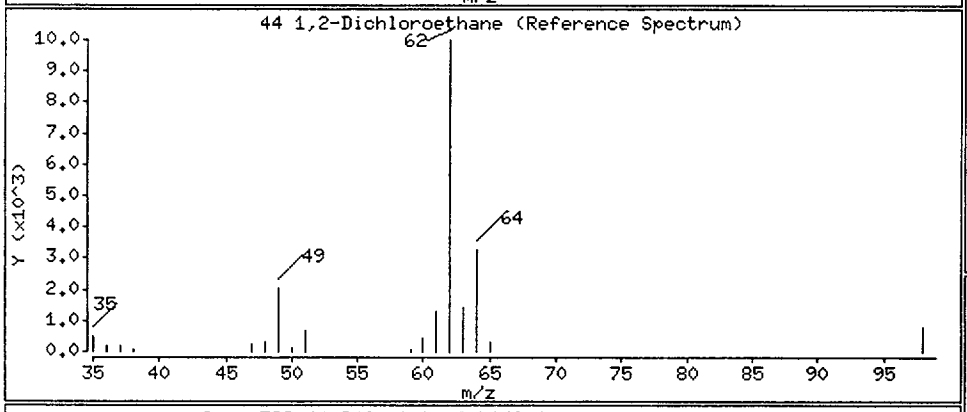
Concentration: 0.026967 ug

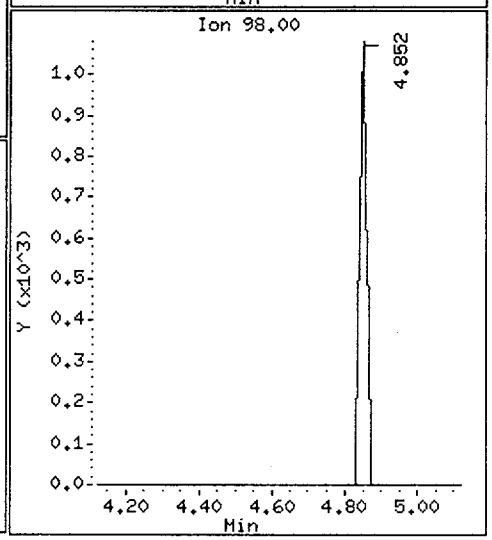


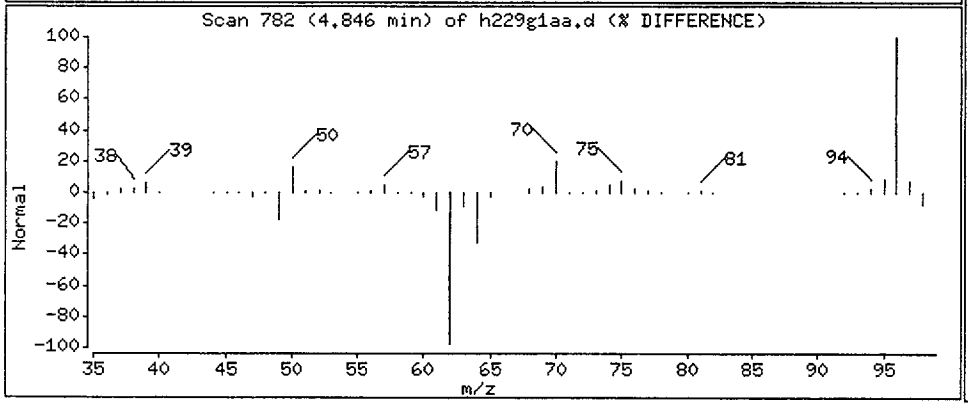












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

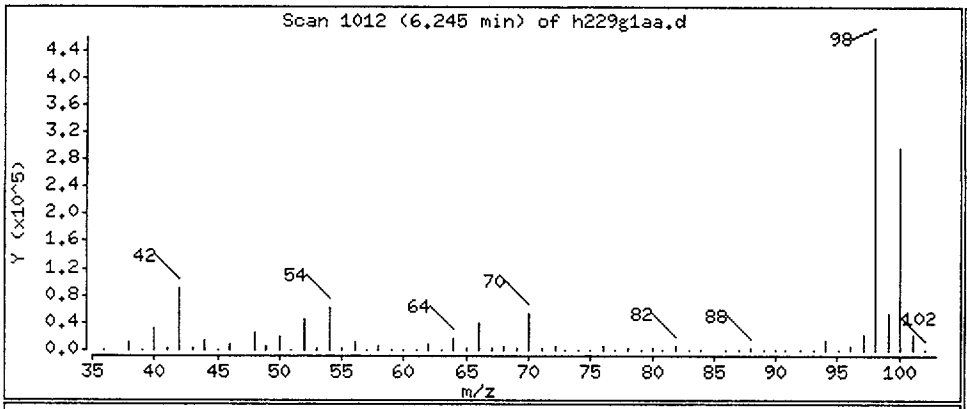
Operator: 22980

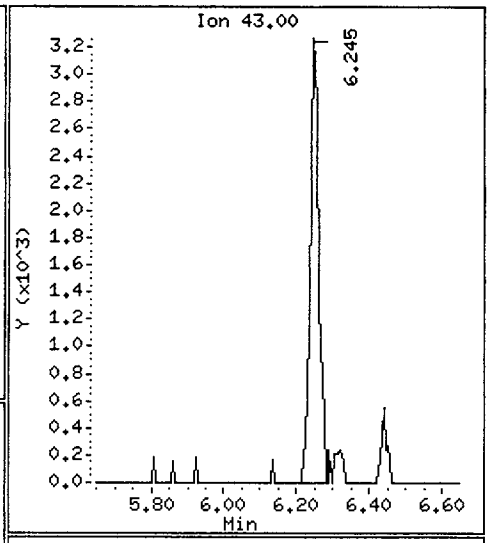
Column phase: J+W 624

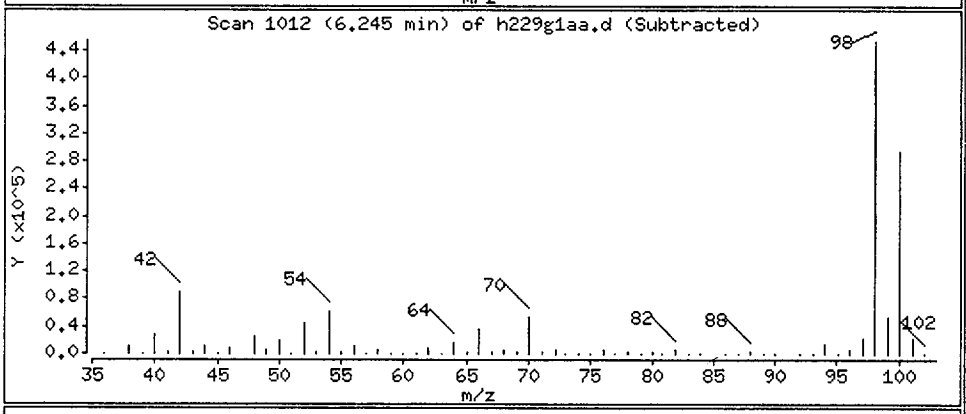
Column diameter: 0.18

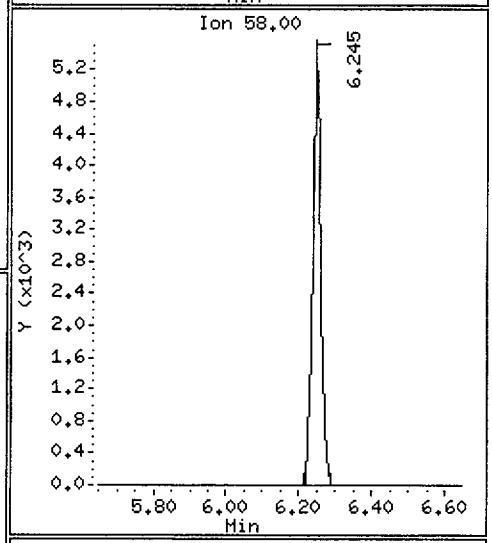
52 4-Methyl-2-pentanone

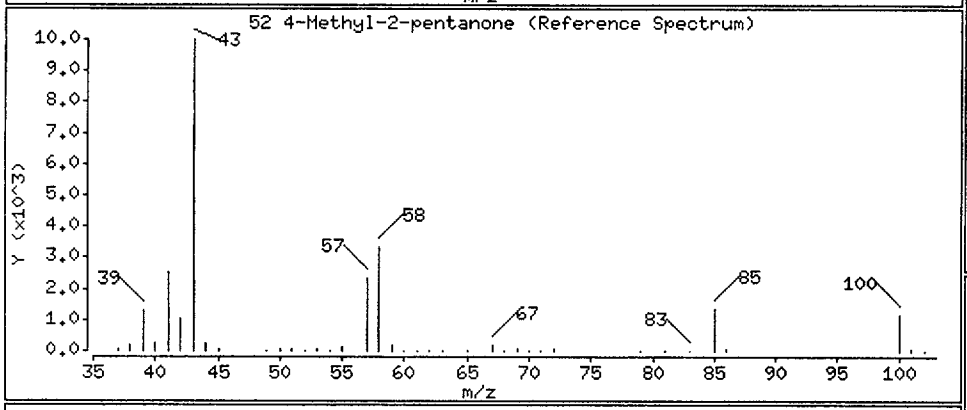
Concentration: 0.033776 ug

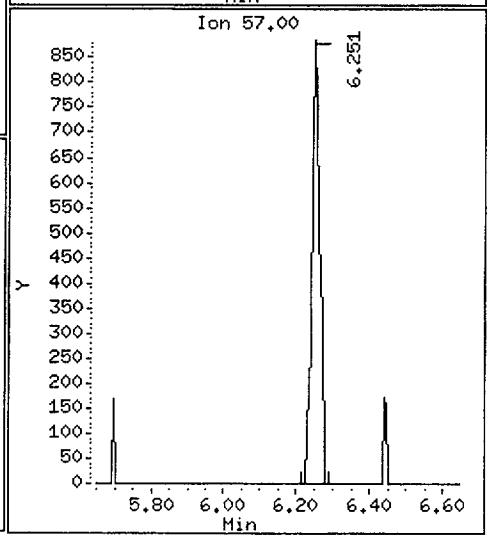


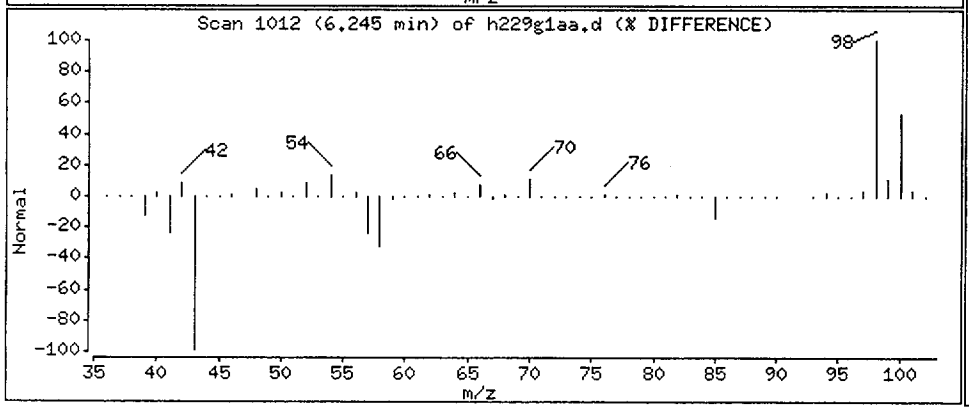












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d

Date : 12-APR-2006 10:48

Client ID: INTRA-LAB BLANK

Instrument: mx.i

Sample Info: H229G1AA,1,3,,,BLK

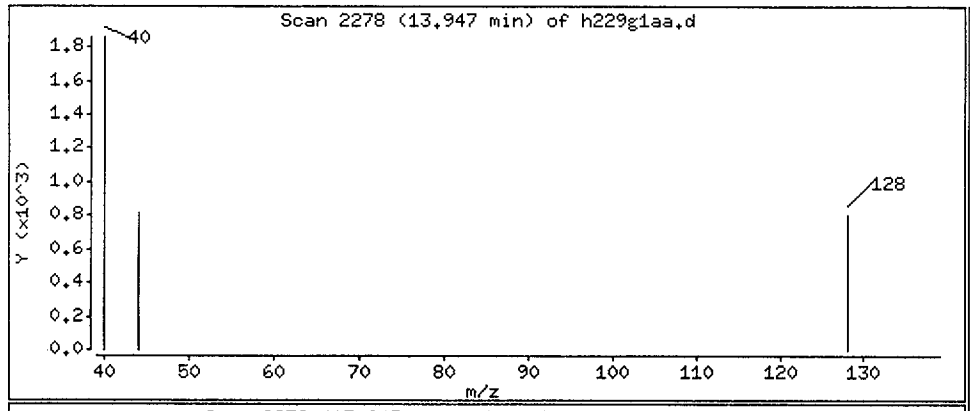
Operator: 22980

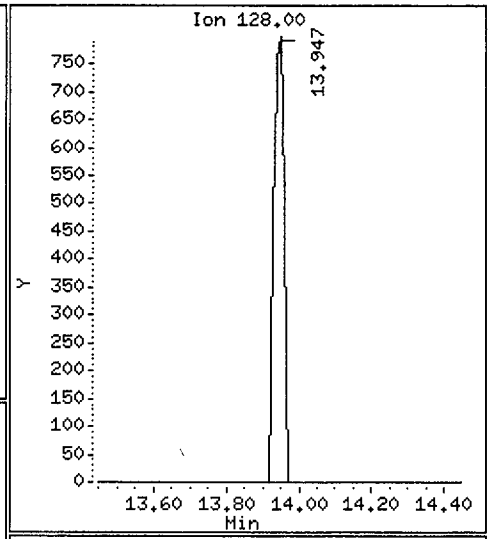
Column phase: J+W 624

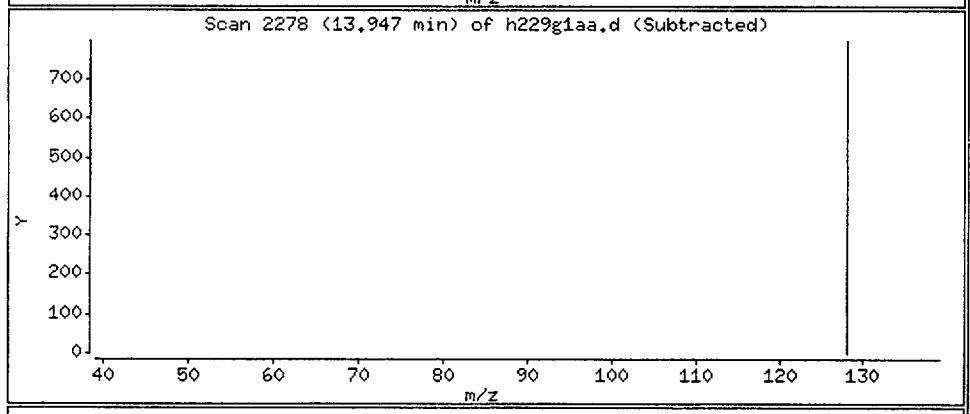
Column diameter: 0.18

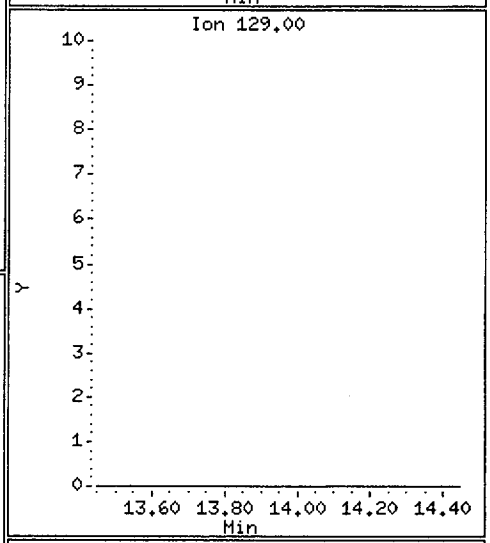
90 Napthalene

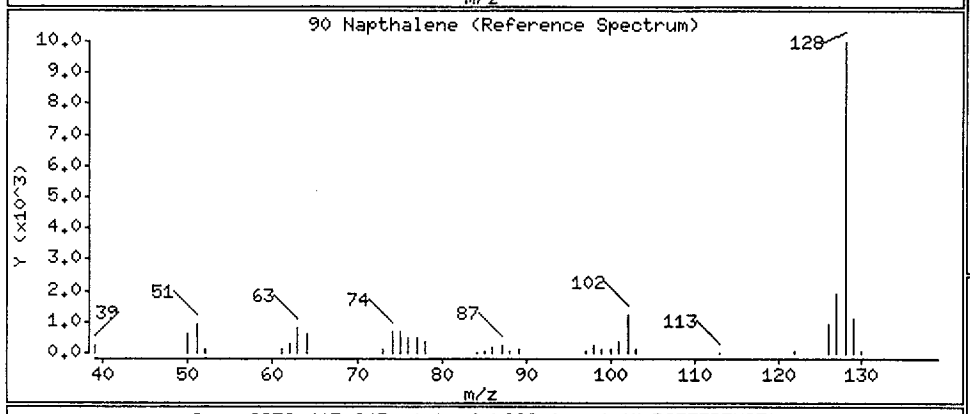
Concentration: 0.0032644 ug

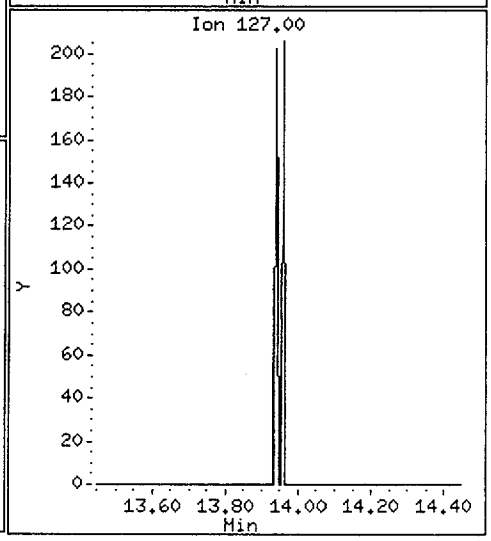


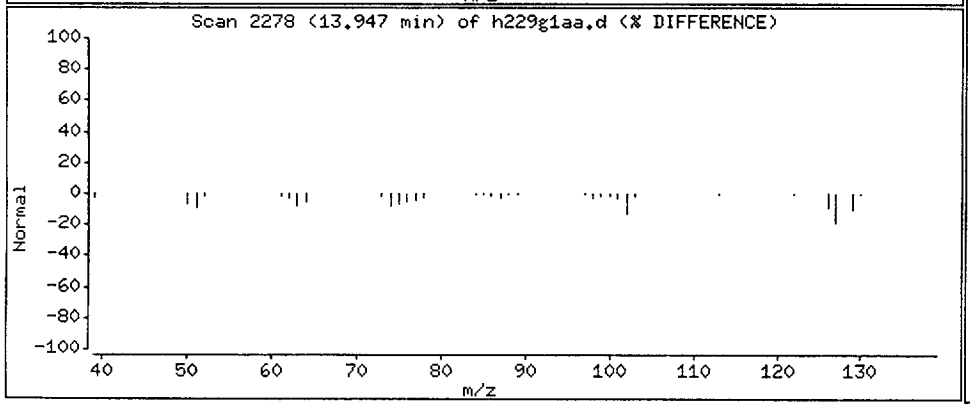












Data File: /var/chem/gcms/mx.i/X041206.b/h229g1aa.d
Report Date: 17-Apr-2006 17:13

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /var/chem/gcms/mx.i/X041206.b/h229g1aa.d
Lab Smp Id: H229G1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 12-APR-2006 10:48
Operator : 22980 Inst ID: mx.i
Smp Info : H229G1AA,1,3,,,BLK
Misc Info : X041206,8260B_LM,thor.sub
Comment :
Method : /var/chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 17-Apr-2006 17:12 tillerm Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 6 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	133	(30 - 180)			SW846 VOST
	107	(30 - 180)	21	(0-25)	SW846 VOST
Acrylonitrile	60	(30 - 130)			SW846 VOST
	63	(30 - 130)	4.9	(0-30)	SW846 VOST
Benzene	**98**	**(69 - 130)**			**SW846 VOST**
	95	**(69 - 130)**	**2.7**	**(0-25)**	**SW846 VOST**
Bromobenzene	90	(50 - 117)			SW846 VOST
	89	(50 - 117)	0.57	(0-25)	SW846 VOST
Bromochloromethane	84	(52 - 125)			SW846 VOST
	80	(52 - 125)	3.9	(0-25)	SW846 VOST
Bromodichloromethane	97	(51 - 129)			SW846 VOST
	99	(51 - 129)	2.6	(0-25)	SW846 VOST
Bromoform	69	(40 - 111)			SW846 VOST
	70	(40 - 111)	1.2	(0-25)	SW846 VOST
Bromomethane	94	(30 - 170)			SW846 VOST
	92	(30 - 170)	1.9	(0-25)	SW846 VOST
2-Butanone	75	(30 - 150)			SW846 VOST
	71	(30 - 150)	5.6	(0-25)	SW846 VOST
n-Butylbenzene	118	(50 - 140)			SW846 VOST
	115	(50 - 140)	2.0	(0-25)	SW846 VOST
sec-Butylbenzene	98	(59 - 136)			SW846 VOST
	97	(59 - 136)	0.75	(0-25)	SW846 VOST
tert-Butylbenzene	90	(59 - 127)			SW846 VOST
	90	(59 - 127)	0.50	(0-25)	SW846 VOST
Carbon disulfide	114	(58 - 150)			SW846 VOST
	107	(58 - 150)	6.9	(0-25)	SW846 VOST
Carbon tetrachloride	100	(61 - 150)			SW846 VOST
	95	(61 - 150)	4.6	(0-25)	SW846 VOST
Chlorobenzene	**85**	**(70 - 116)**			**SW846 VOST**
	88	**(70 - 116)**	**3.2**	**(0-25)**	**SW846 VOST**
Chlorodibromomethane	69	(50 - 116)			SW846 VOST
	71	(50 - 116)	3.0	(0-25)	SW846 VOST
Chloroethane	105	(30 - 150)			SW846 VOST
	99	(30 - 150)	5.9	(0-25)	SW846 VOST
Chloroform	95	(60 - 132)			SW846 VOST
	93	(60 - 132)	2.3	(0-25)	SW846 VOST
Chloromethane	135	(30 - 170)			SW846 VOST
	123	(30 - 170)	9.2	(0-25)	SW846 VOST
2-Chlorotoluene	83	(50 - 122)			SW846 VOST
	85	(50 - 122)	1.4	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	88	(50 - 119)			SW846 VOST
	89	(50 - 119)	1.6	(0-25)	SW846 VOST
1,2-Dibromo-3-chloro-propane	32	(30 - 110)			SW846 VOST
	39	(30 - 110)	20	(0-25)	SW846 VOST
1,2-Dibromoethane	63	(50 - 111)			SW846 VOST
	65	(50 - 111)	4.1	(0-25)	SW846 VOST
Dibromomethane	86	(50 - 118)			SW846 VOST
	89	(50 - 118)	4.2	(0-25)	SW846 VOST
1,2-Dichlorobenzene	74	(50 - 108)			SW846 VOST
	75	(50 - 108)	1.4	(0-25)	SW846 VOST
1,3-Dichlorobenzene	83	(50 - 113)			SW846 VOST
	83	(50 - 113)	0.94	(0-25)	SW846 VOST
1,4-Dichlorobenzene	83	(50 - 111)			SW846 VOST
	83	(50 - 111)	0.19	(0-25)	SW846 VOST
Dichlorodifluoromethane	107	(30 - 150)			SW846 VOST
	91	(30 - 150)	16	(0-25)	SW846 VOST
1,1-Dichloroethane	99	(64 - 134)			SW846 VOST
	95	(64 - 134)	4.3	(0-25)	SW846 VOST
1,2-Dichloroethane	97	(50 - 121)			SW846 VOST
	97	(50 - 121)	0.27	(0-25)	SW846 VOST
cis-1,2-Dichloroethene	89	(60 - 131)			SW846 VOST
	86	(60 - 131)	3.4	(0-25)	SW846 VOST
trans-1,2-Dichloroethene	98	(68 - 140)			SW846 VOST
	92	(68 - 140)	6.4	(0-25)	SW846 VOST
1,1-Dichloroethene	**89**	**(63 - 150)**			**SW846 VOST**
	94	**(63 - 150)**	**5.5**	**(0-25)**	**SW846 VOST**
1,2-Dichloropropane	97	(56 - 124)			SW846 VOST
	99	(56 - 124)	1.4	(0-25)	SW846 VOST
1,3-Dichloropropane	68	(50 - 113)			SW846 VOST
	70	(50 - 113)	2.3	(0-25)	SW846 VOST
2,2-Dichloropropane	85	(66 - 150)			SW846 VOST
	80	(66 - 150)	6.4	(0-25)	SW846 VOST
cis-1,3-Dichloropropene	93	(50 - 128)			SW846 VOST
	96	(50 - 128)	2.6	(0-25)	SW846 VOST
trans-1,3-Dichloropropene	66	(50 - 116)			SW846 VOST
	67	(50 - 116)	0.97	(0-25)	SW846 VOST
1,1-Dichloropropene	103	(75 - 149)			SW846 VOST
	99	(75 - 149)	4.1	(0-25)	SW846 VOST
Ethylbenzene	95	(66 - 129)			SW846 VOST
	97	(66 - 129)	1.6	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	84	(50 - 150)			SW846 VOST
	86	(50 - 150)	2.6	(0-25)	SW846 VOST
2-Hexanone	75	(30 - 133)			SW846 VOST
	75	(30 - 133)	0.16	(0-25)	SW846 VOST
Iodomethane	76	(50 - 150)			SW846 VOST
	77	(50 - 150)	1.8	(0-25)	SW846 VOST
Isopropylbenzene	103	(62 - 137)			SW846 VOST
	103	(62 - 137)	0.51	(0-25)	SW846 VOST
p-Isopropyltoluene	98	(57 - 131)			SW846 VOST
	98	(57 - 131)	0.70	(0-25)	SW846 VOST
Methylene chloride	101	(50 - 149)			SW846 VOST
	98	(50 - 149)	2.4	(0-25)	SW846 VOST
4-Methyl-2-pentanone	89	(30 - 120)			SW846 VOST
	99	(30 - 120)	11	(0-25)	SW846 VOST
Naphthalene	81	(30 - 120)			SW846 VOST
	93	(30 - 120)	14	(0-25)	SW846 VOST
n-Propylbenzene	95	(56 - 136)			SW846 VOST
	95	(56 - 136)	0.17	(0-25)	SW846 VOST
Styrene	89	(50 - 122)			SW846 VOST
	90	(50 - 122)	1.1	(0-25)	SW846 VOST
1,1,1,2-Tetrachloroethane	71	(50 - 115)			SW846 VOST
	74	(50 - 115)	3.7	(0-25)	SW846 VOST
1,1,2,2-Tetrachloroethane	76	(30 - 110)			SW846 VOST
	78	(30 - 110)	2.6	(0-25)	SW846 VOST
Tetrachloroethene	86	(60 - 142)			SW846 VOST
	84	(60 - 142)	1.6	(0-25)	SW846 VOST
Toluene	**85**	**(64 - 128)**			**SW846 VOST**
	85	**(64 - 128)**	**0.010**	**(0-25)**	**SW846 VOST**
1,2,3-Trichlorobenzene	87	(30 - 106)			SW846 VOST
	96	(30 - 106)	10	(0-25)	SW846 VOST
1,2,4-Trichloro-benzene	86	(30 - 116)			SW846 VOST
	95	(30 - 116)	10	(0-25)	SW846 VOST
1,1,1-Trichloroethane	98	(64 - 150)			SW846 VOST
	95	(64 - 150)	3.8	(0-25)	SW846 VOST
1,1,2-Trichloroethane	67	(50 - 112)			SW846 VOST
	67	(50 - 112)	0.020	(0-25)	SW846 VOST
Trichloroethene	**97**	**(72 - 150)**			**SW846 VOST**
	96	**(72 - 150)**	**1.5**	**(0-25)**	**SW846 VOST**
Trichlorofluoromethane	92	(30 - 150)			SW846 VOST
	84	(30 - 150)	8.3	(0-25)	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,3-Trichloropropane	51	(30 - 110)			SW846 VOST
	61	(30 - 110)	18	(0-25)	SW846 VOST
1,2,4-Trimethylbenzene	101	(50 - 125)			SW846 VOST
	102	(50 - 125)	0.50	(0-25)	SW846 VOST
1,3,5-Trimethylbenzene	100	(53 - 130)			SW846 VOST
	101	(53 - 130)	1.1	(0-25)	SW846 VOST
Vinyl chloride	119	(61 - 150)			SW846 VOST
	113	(61 - 150)	5.2	(0-25)	SW846 VOST
m-Xylene & p-Xylene	99	(62 - 131)			SW846 VOST
	100	(62 - 131)	1.2	(0-25)	SW846 VOST
o-Xylene	97	(56 - 121)			SW846 VOST
	97	(56 - 121)	0.060	(0-25)	SW846 VOST
Xylenes (total)	98	(60 - 127)			SW846 VOST
	99	(60 - 127)	0.83	(0-25)	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(50 - 134)
	90	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
	93	(50 - 134)
Toluene-d8	82	(57 - 127)
	79	(57 - 127)
Bromofluorobenzene	74	(50 - 125)
	74	(50 - 125)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	1.00	1.33	ug	133		SW846 VOST
	1.00	1.07	ug	107	21	SW846 VOST
Acrylonitrile	5.00	2.98	ug	60		SW846 VOST
	5.00	3.13	ug	63	4.9	SW846 VOST
Benzene	**0.250**	**0.244**	**ug**	**98**		**SW846 VOST**
	0.250	**0.238**	**ug**	**95**	**2.7**	**SW846 VOST**
Bromobenzene	0.250	0.224	ug	90		SW846 VOST
	0.250	0.223	ug	89	0.57	SW846 VOST
Bromochloromethane	0.250	0.209	ug	84		SW846 VOST
	0.250	0.201	ug	80	3.9	SW846 VOST
Bromodichloromethane	0.250	0.242	ug	97		SW846 VOST
	0.250	0.248	ug	99	2.6	SW846 VOST
Bromoform	0.250	0.174	ug	69		SW846 VOST
	0.250	0.176	ug	70	1.2	SW846 VOST
Bromomethane	0.250	0.234	ug	94		SW846 VOST
	0.250	0.230	ug	92	1.9	SW846 VOST
2-Butanone	1.00	0.750	ug	75		SW846 VOST
	1.00	0.709	ug	71	5.6	SW846 VOST
n-Butylbenzene	0.250	0.294	ug	118		SW846 VOST
	0.250	0.288	ug	115	2.0	SW846 VOST
sec-Butylbenzene	0.250	0.245	ug	98		SW846 VOST
	0.250	0.243	ug	97	0.75	SW846 VOST
tert-Butylbenzene	0.250	0.226	ug	90		SW846 VOST
	0.250	0.225	ug	90	0.50	SW846 VOST
Carbon disulfide	0.250	0.286	ug	114		SW846 VOST
	0.250	0.267	ug	107	6.9	SW846 VOST
Carbon tetrachloride	0.250	0.249	ug	100		SW846 VOST
	0.250	0.238	ug	95	4.6	SW846 VOST
Chlorobenzene	**0.250**	**0.213**	**ug**	**85**		**SW846 VOST**
	0.250	**0.220**	**ug**	**88**	**3.2**	**SW846 VOST**
Chlorodibromomethane	0.250	0.172	ug	69		SW846 VOST
	0.250	0.177	ug	71	3.0	SW846 VOST
Chloroethane	0.250	0.264	ug	105		SW846 VOST
	0.250	0.249	ug	99	5.9	SW846 VOST
Chloroform	0.250	0.239	ug	95		SW846 VOST
	0.250	0.233	ug	93	2.3	SW846 VOST
Chloromethane	0.250	0.336	ug	135		SW846 VOST
	0.250	0.307	ug	123	9.2	SW846 VOST
2-Chlorotoluene	0.250	0.208	ug	83		SW846 VOST
	0.250	0.211	ug	85	1.4	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorotoluene	0.250	0.219	ug	88		SW846 VOST
	0.250	0.222	ug	89	1.6	SW846 VOST
1,2-Dibromo-3-chloro-propane	0.250	0.0801	ug	32		SW846 VOST
	0.250	0.0978	ug	39	20	SW846 VOST
1,2-Dibromoethane	0.250	0.157	ug	63		SW846 VOST
	0.250	0.163	ug	65	4.1	SW846 VOST
Dibromomethane	0.250	0.214	ug	86		SW846 VOST
	0.250	0.223	ug	89	4.2	SW846 VOST
1,2-Dichlorobenzene	0.250	0.185	ug	74		SW846 VOST
	0.250	0.188	ug	75	1.4	SW846 VOST
1,3-Dichlorobenzene	0.250	0.206	ug	83		SW846 VOST
	0.250	0.208	ug	83	0.94	SW846 VOST
1,4-Dichlorobenzene	0.250	0.207	ug	83		SW846 VOST
	0.250	0.207	ug	83	0.19	SW846 VOST
Dichlorodifluoromethane	0.250	0.268	ug	107		SW846 VOST
	0.250	0.228	ug	91	16	SW846 VOST
1,1-Dichloroethane	0.250	0.247	ug	99		SW846 VOST
	0.250	0.237	ug	95	4.3	SW846 VOST
1,2-Dichloroethane	0.250	0.241	ug	97		SW846 VOST
	0.250	0.242	ug	97	0.27	SW846 VOST
cis-1,2-Dichloroethene	0.250	0.224	ug	89		SW846 VOST
	0.250	0.216	ug	86	3.4	SW846 VOST
trans-1,2-Dichloroethene	0.250	0.246	ug	98		SW846 VOST
	0.250	0.230	ug	92	6.4	SW846 VOST
1,1-Dichloroethene	**0.250**	**0.223**	**ug**	**89**		**SW846 VOST**
	0.250	**0.236**	**ug**	**94**	**5.5**	**SW846 VOST**
1,2-Dichloropropane	0.250	0.243	ug	97		SW846 VOST
	0.250	0.247	ug	99	1.4	SW846 VOST
1,3-Dichloropropane	0.250	0.170	ug	68		SW846 VOST
	0.250	0.174	ug	70	2.3	SW846 VOST
2,2-Dichloropropane	0.250	0.213	ug	85		SW846 VOST
	0.250	0.200	ug	80	6.4	SW846 VOST
cis-1,3-Dichloropropene	0.250	0.233	ug	93		SW846 VOST
	0.250	0.239	ug	96	2.6	SW846 VOST
trans-1,3-Dichloropropene	0.250	0.166	ug	66		SW846 VOST
	0.250	0.168	ug	67	0.97	SW846 VOST
1,1-Dichloropropene	0.250	0.258	ug	103		SW846 VOST
	0.250	0.248	ug	99	4.1	SW846 VOST
Ethylbenzene	0.250	0.238	ug	95		SW846 VOST
	0.250	0.242	ug	97	1.6	SW846 VOST

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorobutadiene	0.250	0.209	ug	84		SW846 VOST
	0.250	0.215	ug	86	2.6	SW846 VOST
2-Hexanone	1.00	0.753	ug	75		SW846 VOST
	1.00	0.752	ug	75	0.16	SW846 VOST
Iodomethane	0.250	0.189	ug	76		SW846 VOST
	0.250	0.192	ug	77	1.8	SW846 VOST
Isopropylbenzene	0.250	0.257	ug	103		SW846 VOST
	0.250	0.259	ug	103	0.51	SW846 VOST
p-Isopropyltoluene	0.250	0.246	ug	98		SW846 VOST
	0.250	0.244	ug	98	0.70	SW846 VOST
Methylene chloride	0.250	0.251	ug	101		SW846 VOST
	0.250	0.245	ug	98	2.4	SW846 VOST
4-Methyl-2-pentanone	1.00	0.894	ug	89		SW846 VOST
	1.00	0.994	ug	99	11	SW846 VOST
Naphthalene	0.250	0.203	ug	81		SW846 VOST
	0.250	0.234	ug	93	14	SW846 VOST
n-Propylbenzene	0.250	0.237	ug	95		SW846 VOST
	0.250	0.237	ug	95	0.17	SW846 VOST
Styrene	0.250	0.222	ug	89		SW846 VOST
	0.250	0.224	ug	90	1.1	SW846 VOST
1,1,1,2-Tetrachloroethane	0.250	0.178	ug	71		SW846 VOST
	0.250	0.185	ug	74	3.7	SW846 VOST
1,1,2,2-Tetrachloroethane	0.250	0.189	ug	76		SW846 VOST
	0.250	0.194	ug	78	2.6	SW846 VOST
Tetrachloroethene	0.250	0.214	ug	86		SW846 VOST
	0.250	0.211	ug	84	1.6	SW846 VOST
Toluene	**0.250**	**0.213**	**ug**	**85**		**SW846 VOST**
	0.250	**0.213**	**ug**	**85**	**0.010**	**SW846 VOST**
1,2,3-Trichlorobenzene	0.250	0.217	ug	87		SW846 VOST
	0.250	0.240	ug	96	10	SW846 VOST
1,2,4-Trichloro-benzene	0.250	0.215	ug	86		SW846 VOST
	0.250	0.238	ug	95	10	SW846 VOST
1,1,1-Trichloroethane	0.250	0.246	ug	98		SW846 VOST
	0.250	0.237	ug	95	3.8	SW846 VOST
1,1,2-Trichloroethane	0.250	0.168	ug	67		SW846 VOST
	0.250	0.168	ug	67	0.020	SW846 VOST
Trichloroethene	**0.250**	**0.243**	**ug**	**97**		**SW846 VOST**
	0.250	**0.240**	**ug**	**96**	**1.5**	**SW846 VOST**
Trichlorofluoromethane	0.250	0.229	ug	92		SW846 VOST
	0.250	0.211	ug	84	8.3	SW846 VOST

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D120117 **Work Order #...:** H229G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D120000-057 H229G1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2,3-Trichloropropane	0.250	0.127	ug	51		SW846 VOST
	0.250	0.152	ug	61	18	SW846 VOST
1,2,4-Trimethylbenzene	0.250	0.253	ug	101		SW846 VOST
	0.250	0.254	ug	102	0.50	SW846 VOST
1,3,5-Trimethylbenzene	0.250	0.249	ug	100		SW846 VOST
	0.250	0.252	ug	101	1.1	SW846 VOST
Vinyl chloride	0.250	0.298	ug	119		SW846 VOST
	0.250	0.283	ug	113	5.2	SW846 VOST
m-Xylene & p-Xylene	0.500	0.495	ug	99		SW846 VOST
	0.500	0.501	ug	100	1.2	SW846 VOST
o-Xylene	0.250	0.242	ug	97		SW846 VOST
	0.250	0.242	ug	97	0.060	SW846 VOST
Xylenes (total)	0.750	0.737	ug	98		SW846 VOST
	0.750	0.743	ug	99	0.83	SW846 VOST

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(50 - 134)
	90	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
	93	(50 - 134)
Toluene-d8	82	(57 - 127)
	79	(57 - 127)
Bromofluorobenzene	74	(50 - 125)
	74	(50 - 125)

NOTE(S):

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

Bold print denotes control parameters

Data File: /chem/gcms/mx.i/X041206.b/h229g1ac.d
Report Date: 12-Apr-2006 09:37

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X041206.b/h229g1ac.d
Lab Smp Id: H229G1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 12-APR-2006 09:21
Operator : 22980 Inst ID: mx.i
Smp Info : H229G1AC,1,3,,,LCS
Misc Info : X041206,8260B_LM,all.sub
Comment :
Method : /chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 12-Apr-2006 08:55 chemist Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
* 1 Fluorobenzene	96	4.847	4.851	(1.000)	943333	10.0000	
* 2 Chlorobenzene-d5	119	7.579	7.582	(1.000)	223838	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	10.736	10.740	(1.000)	300410	10.0000	
$ 4 Dibromofluoromethane	113	4.269	4.273	(0.881)	149603	9.32768	0.23319
$ 5 1,2-Dichloroethane-d4	65	4.549	4.553	(0.938)	124869	9.98807	0.24970
$ 6 Toluene-d8	98	6.252	6.250	(0.825)	903940	8.24827	0.20621
$ 7 4-Bromofluorobenzene	95	8.868	8.872	(0.826)	265303	7.44847	0.18621
M 8 1,2-Dichloroethene (total)	96				419199	18.7636	0.46909
M 9 Xylene (total)	106				1524189	29.4769	0.73692
10 Dichlorodifluoromethane	85	1.124	1.128	(0.232)	320709	10.7397	0.26849
11 Chloromethane (spcc)	50	1.252	1.255	(0.258)	591158	13.4512	0.33628(R)
12 Vinyl Chloride (ccc)	62	1.337	1.334	(0.276)	409325	11.9360	0.29840
13 *1,3-Butadiene	39	1.361	1.369	(0.281)	403574	14.0137	0.35034
14 Bromomethane	94	1.574	1.584	(0.325)	124549	9.37108	0.23428
15 Chloroethane	64	1.659	1.669	(0.342)	198670	10.5476	0.26369
16 *Vinyl Bromide	106	1.817	1.825	(0.375)	164397	10.0281	0.25070
17 Trichlorofluoromethane	101	1.878	1.882	(0.388)	343680	9.16070	0.22902
18 *2-Chloropropane	43	2.201	2.208	(0.454)	630243	10.7933	0.26983
19 1,1-Dichloroethene (ccc)	96	2.322	2.326	(0.479)	169441	8.92258	0.22306
20 *Freon 113	151	2.341	2.347	(0.483)	149651	8.88135	0.22203

Data File: /chem/gcms/mx.i/X041206.b/h229g1ac.d
Report Date: 12-Apr-2006 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
21 Acetone	43	2.389	2.381	(0.493)	70857	53.0337	1.3258(R)
22 *Iodomethane	142	2.438	2.439	(0.503)	179831	7.55890	0.18897
23 Carbon Disulfide	76	2.493	2.496	(0.514)	822105	11.4352	0.28588
24 *2-propanol	45	2.566	2.537	(0.529)	24307	156.698	3.9174
25 *Acetonitrile	40	2.608	2.610	(0.538)	19250	75.3943	1.8848
26 Methylene Chloride	84	2.742	2.746	(0.566)	146618	10.0530	0.25132
27 *t-butanol	59	2.900	2.884	(0.598)	61578	342.253	8.5563
28 *Acrylonitrile	53	2.961	2.962	(0.611)	223079	119.014	2.9754(R)
29 trans-1,2-Dichloroethene	96	2.986	2.989	(0.616)	226062	9.82096	0.24552
30 *MTBE	73	2.998	3.005	(0.618)	33669	1.65423	0.041356
31 *Hexane	57	3.247	3.255	(0.670)	1206215	25.9699	0.64925
32 1,1-Dichloroethane (spcc)	63	3.344	3.348	(0.690)	451538	9.88687	0.24717
33 *Vinyl Acetate	86	3.411	3.418	(0.704)	19775	18.4286	0.46071
34 2,2-Dichloropropane	77	3.849	3.853	(0.794)	353359	8.53366	0.21334
35 cis 1,2-Dichloroethene	96	3.855	3.859	(0.795)	193136	8.94262	0.22356
36 2-Butanone	43	3.874	3.871	(0.799)	62484	29.9824	0.74956
37 Bromochloromethane	128	4.056	4.054	(0.837)	47470	8.35907	0.20898
38 *THF	42	4.105	4.106	(0.847)	30290	23.7180	0.59295
39 Chloroform (ccc)	83	4.135	4.139	(0.853)	342287	9.54678	0.23867
40 1,1,1-Trichloroethane	97	4.287	4.291	(0.885)	394147	9.83304	0.24582
41 Carbon Tetrachloride	117	4.433	4.437	(0.915)	337729	9.97334	0.24933
42 1,1-Dichloropropene	75	4.433	4.437	(0.915)	385548	10.3229	0.25807
43 Benzene	78	4.604	4.607	(0.950)	933665	9.77281	0.24432
44 1,2-Dichloroethane	62	4.616	4.620	(0.952)	155217	9.65471	0.24137
45 Trichloroethene	130	5.169	5.173	(1.067)	249401	9.72892	0.24322
46 1,2-Dichloropropane (ccc)	63	5.358	5.362	(1.105)	196111	9.73062	0.24326
47 *Methyl Methacrylate	41	5.474	5.481	(1.129)	62541	9.96578	0.24914
48 Dibromomethane	93	5.455	5.459	(1.125)	45743	8.55055	0.21376
49 Bromodichloromethane	83	5.601	5.605	(1.156)	193854	9.68516	0.24213
50 *2-Chloroethylvinylether	63	6.009	5.877	(1.240)	1569	0.36256	0.0090641
51 cis-1,3-Dichloropropene	75	6.003	6.007	(1.238)	218704	9.33021	0.23326
52 4-Methyl-2-pentanone	43	6.143	6.147	(1.267)	178478	35.7592	0.89398
53 Toluene (ccc)	91	6.307	6.311	(0.832)	1117983	8.52671	0.21317
54 trans-1,3-Dichloropropene	75	6.502	6.505	(0.858)	152782	6.64849	0.16621(R)
55 *Ethyl Methacrylate	69	6.599	6.607	(0.871)	87570	7.28487	0.18212
56 1,1,2-Trichloroethane	97	6.666	6.670	(0.880)	69643	6.72416	0.16810(R)
57 Tetrachloroethene	164	6.818	6.816	(0.900)	241007	8.55486	0.21387
58 1,3-Dichloropropane	76	6.818	6.822	(0.900)	134305	6.79794	0.16995(R)
59 2-Hexanone	43	6.903	6.901	(0.911)	131950	30.1160	0.75290
60 Chlorodibromomethane	129	7.031	7.035	(0.928)	88188	6.87242	0.17181(R)
61 1,2-Dibromoethane	107	7.134	7.132	(0.941)	60423	6.26436	0.15661(R)
62 Chlorobenzene (spcc)	112	7.609	7.607	(1.004)	574257	8.53199	0.21330
63 1,1,1,2-Tetrachloroethane	131	7.682	7.686	(1.014)	157641	7.11654	0.17791
64 Ethylbenzene (ccc)	106	7.712	7.716	(1.018)	440847	9.52354	0.23809
65 m&p-Xylene	106	7.834	7.832	(1.034)	1074084	19.7988	0.49497
66 o-Xylene	106	8.248	8.251	(1.088)	450104	9.67804	0.24195
67 Styrene	104	8.260	8.264	(1.090)	590880	8.86309	0.22158

Data File: /chem/gcms/mx.i/X041206.b/h229g1ac.d
Report Date: 12-Apr-2006 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
	68 Bromoform (spcc)	173	8.455	8.458	(1.116)	43070	6.94467	0.17362
	69 Isopropylbenzene	105	8.686	8.689	(1.146)	1535683	10.2954	0.25738
	70 *cis-1,4-dichloro-2-butene	88	8.753	8.754	(1.155)	17912	6.27536	0.15688
	71 Bromobenzene	156	9.063	9.067	(1.196)	189011	8.97032	0.22426
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.063	9.060	(1.196)	62326	7.57915	0.18948
	73 1,2,3-Trichloropropane	110	9.112	9.115	(0.849)	14275	5.09028	0.12726(R)
	74 *trans-1,4-dichloro-2-butene	53	9.142	9.143	(0.852)	19818	6.64576	0.16614
	75 n-Propylbenzene	91	9.239	9.243	(0.861)	1961651	9.49251	0.23731
	76 2-Chlorotoluene	91	9.349	9.353	(0.871)	884133	8.33693	0.20842
	77 1,3,5-Trimethylbenzene	105	9.507	9.511	(0.886)	1113587	9.97317	0.24933
	78 4-Chlorotoluene	91	9.513	9.517	(0.886)	978604	8.75107	0.21878
	79 tert-Butylbenzene	119	10.030	10.034	(0.934)	1065835	9.04112	0.22603
	80 1,2,4-Trimethylbenzene	105	10.121	10.119	(0.943)	980867	10.1200	0.25300
	81 sec-Butylbenzene	105	10.432	10.435	(0.972)	1677676	9.79801	0.24495
	82 1,3-Dichlorobenzene	146	10.608	10.612	(0.988)	417899	8.25656	0.20641
	83 p-Isopropyltoluene	119	10.736	10.733	(1.000)	1341971	9.82472	0.24562
	84 1,4-Dichlorobenzene	146	10.785	10.788	(1.005)	380385	8.29841	0.20746
	85 1,2-Dichlorobenzene	146	11.429	11.427	(1.065)	268928	7.40187	0.18505
	86 n-Butylbenzene	91	11.466	11.470	(1.068)	1411624	11.7514	0.29378
	87 1,2-Dibromo-3-chloropropane	157	12.585	12.595	(1.172)	4794	3.20408	0.080102(R)
	88 1,2,4-Trichlorobenzene	180	13.674	13.672	(1.274)	153884	8.61117	0.21528
	89 Hexachlorobutadiene	225	13.905	13.903	(1.295)	247641	8.37980	0.20949
	90 Napthalene	128	13.948	13.946	(1.299)	105646	8.10514	0.20263
	91 1,2,3-Trichlorobenzene	180	14.228	14.225	(1.325)	100179	8.68285	0.21707
M	92 *1,4-dichloro-2-butene(total)	53				37730	12.9211	0.32303

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

4/12/06

Data File: /chem/gcms/mx.i/X041206.b/h229g1ac.d
Report Date: 12-Apr-2006 09:37

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h229g1ac.d
Lab Smp Id: H229G1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,all.sub

Calibration Date: 12-APR-2006
Calibration Time: 08:38
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	977885	488942	1955770	943333	-3.53
2 Chlorobenzene-d5	201795	100898	403590	223838	10.92
3 1,4 Dichlorobenze	245212	122606	490424	300410	22.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	-0.08
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	-0.05
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.74	-0.03

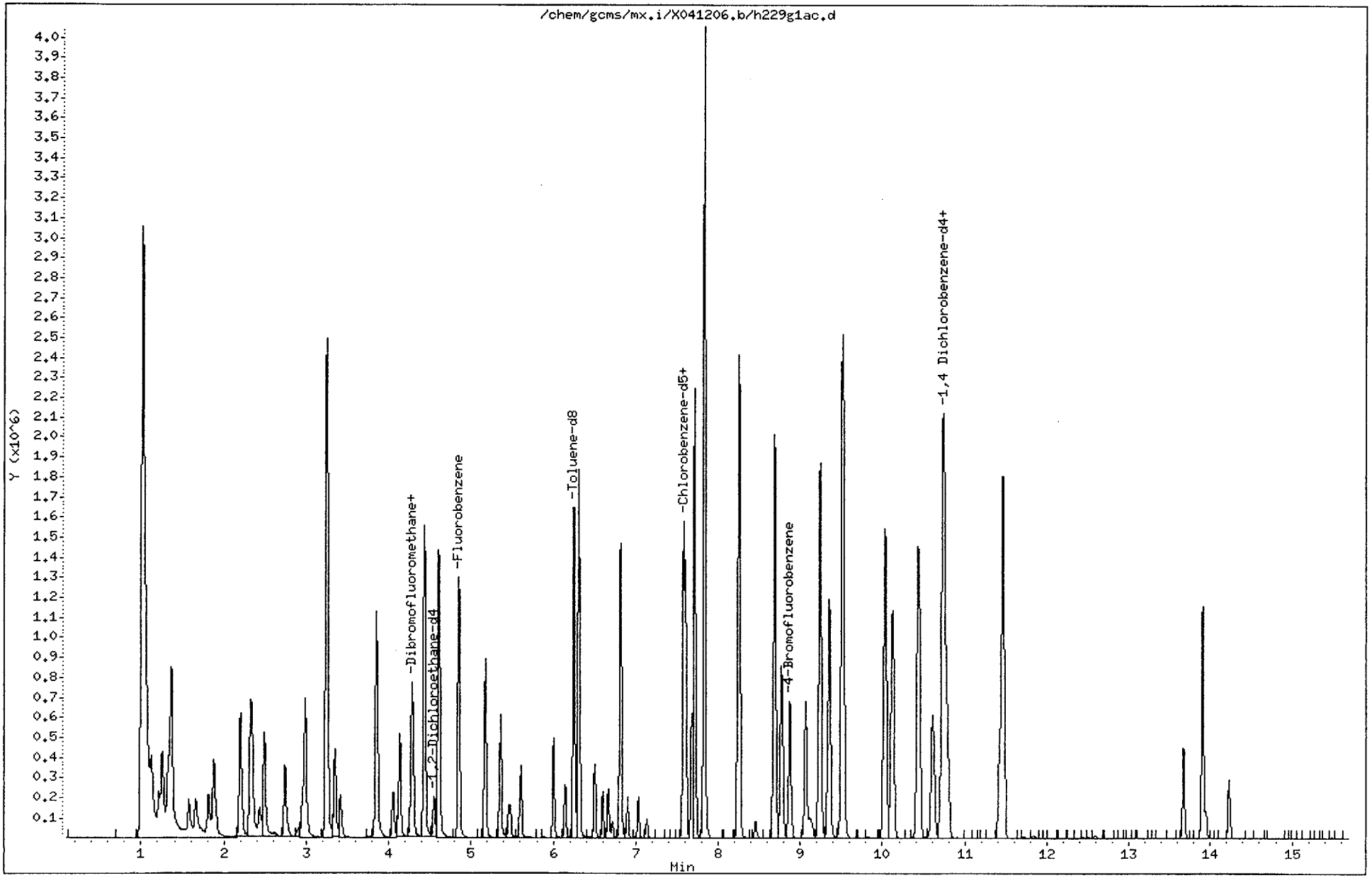
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcms/mx.i/X041206.b/h229g1ac.d
Date : 12-APR-2006 09:21
Client ID: INTRA-LAB CHECK
Sample Info: H229G1AC,1,3,,,LCS

Column phase: J+W 624

Instrument: mx.i

Operator: 22980
Column diameter: 0.18



Data File: /chem/gcms/mx.i/X041206.b/h229g1ad.d
Report Date: 12-Apr-2006 10:04

STL Knoxville

SW-846 Method 8260A - Volatile Organics

Data file : /chem/gcms/mx.i/X041206.b/h229g1ad.d
Lab Smp Id: H229G1AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 12-APR-2006 09:47
Operator : 22980 Inst ID: mx.i
Smp Info : H229G1AD,1,3,,,LCSD
Misc Info : X041206,8260B_LM,all.sub
Comment :
Method : /chem/gcms/mx.i/X041206.b/8260B_LM.m
Meth Date : 12-Apr-2006 08:55 chemist Quant Type: ISTD
Cal Date : 15-FEB-2006 14:58 Cal File: icxb151.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
*	1 Fluorobenzene	96	4.851	4.851	(1.000)	918986	10.0000	
*	2 Chlorobenzene-d5	119	7.582	7.582	(1.000)	224211	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	10.739	10.740	(1.000)	296414	10.0000	
$	4 Dibromofluoromethane	113	4.267	4.273	(0.880)	140005	8.96051	0.22401
$	5 1,2-Dichloroethane-d4	65	4.553	4.553	(0.939)	113052	9.28241	0.23206
$	6 Toluene-d8	98	6.250	6.250	(0.824)	872414	7.94734	0.19868
$	7 4-Bromofluorobenzene	95	8.872	8.872	(0.826)	258724	7.36168	0.18404
M	8 1,2-Dichloroethene (total)	96				388429	17.8556	0.44639
M	9 Xylene (total)	106				1540114	29.7240	0.74310
	10 Dichlorodifluoromethane	85	1.121	1.128	(0.231)	265242	9.11755	0.22794
	11 Chloromethane (spcc)	50	1.249	1.255	(0.258)	525325	12.2700	0.30675
	12 Vinyl Chloride (ccc)	62	1.334	1.334	(0.275)	378656	11.3342	0.28336
	13 *1,3-Butadiene	39	1.365	1.369	(0.281)	345400	12.3115	0.30779
	14 Bromomethane	94	1.578	1.584	(0.325)	119020	9.19234	0.22981
	15 Chloroethane	64	1.663	1.669	(0.343)	182434	9.94221	0.24856
	16 *Vinyl Bromide	106	1.815	1.825	(0.374)	149946	9.38895	0.23472
	17 Trichlorofluoromethane	101	1.882	1.882	(0.388)	308206	8.43279	0.21082
	18 *2-Chloropropane	43	2.198	2.208	(0.453)	549139	9.65349	0.24134
	19 1,1-Dichloroethene (ccc)	96	2.320	2.326	(0.478)	174485	9.43164	0.23579
	20 *Freon 113	151	2.344	2.347	(0.483)	140899	8.58348	0.21459

Data File: /chem/gcms/mx.i/X041206.b/h229g1ad.d
Report Date: 12-Apr-2006 10:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
21 Acetone	43	2.387	2.381	(0.492)	55925	42.9665	1.0742
22 *Iodomethane	142	2.435	2.439	(0.502)	178307	7.69341	0.19234
23 Carbon Disulfide	76	2.490	2.496	(0.513)	747784	10.6769	0.26692
24 *2-propanol	45	2.569	2.537	(0.530)	14439	100.376	2.5094
25 *Acetonitrile	40	2.612	2.610	(0.538)	18827	75.6910	1.8923
26 Methylene Chloride	84	2.746	2.746	(0.566)	139384	9.81012	0.24525
27 *t-butanol	59	2.892	2.884	(0.596)	40331	237.493	5.9373
28 *Acrylonitrile	53	2.959	2.962	(0.610)	228307	125.030	3.1257(R)
29 trans-1,2-Dichloroethene	96	2.989	2.989	(0.616)	206511	9.20928	0.23023
30 *MTBE	73	3.001	3.005	(0.619)	30813	1.55403	0.038851
31 *Hexane	57	3.251	3.255	(0.670)	1090900	24.1094	0.60273
32 1,1-Dichloroethane (spcc)	63	3.348	3.348	(0.690)	421369	9.47073	0.23677
33 *Vinyl Acetate	86	3.415	3.418	(0.704)	20167	19.2919	0.48230
34 2,2-Dichloropropane	77	3.853	3.853	(0.794)	322790	8.00194	0.20005
35 cis 1,2-Dichloroethene	96	3.853	3.859	(0.794)	181918	8.64635	0.21616
36 2-Butanone	43	3.871	3.871	(0.798)	57575	28.3587	0.70897
37 Bromochloromethane	128	4.054	4.054	(0.836)	44488	8.04150	0.20104
38 *THF	42	4.102	4.106	(0.846)	31998	25.7194	0.64298
39 Chloroform (ccc)	83	4.133	4.139	(0.852)	325966	9.33245	0.23331
40 1,1,1-Trichloroethane	97	4.285	4.291	(0.883)	369685	9.46710	0.23668
41 Carbon Tetrachloride	117	4.437	4.437	(0.915)	314115	9.52176	0.23804
42 1,1-Dichloropropene	75	4.431	4.437	(0.913)	360412	9.90555	0.24764
43 Benzene	78	4.607	4.607	(0.950)	885100	9.50992	0.23775
44 1,2-Dichloroethane	62	4.613	4.620	(0.951)	151631	9.68157	0.24204
45 Trichloroethene	130	5.173	5.173	(1.066)	239272	9.58107	0.23953
46 1,2-Dichloropropane (ccc)	63	5.356	5.362	(1.104)	193681	9.86468	0.24662
47 *Methyl Methacrylate	41	5.477	5.481	(1.129)	63986	10.4661	0.26165
48 Dibromomethane	93	5.459	5.459	(1.125)	46464	8.91540	0.22288
49 Bromodichloromethane	83	5.605	5.605	(1.155)	193737	9.93579	0.24839
50 *2-Chloroethylvinylether	63	5.879	5.877	(1.212)	846	0.20067	0.0050166
51 cis-1,3-Dichloropropene	75	6.006	6.007	(1.238)	218754	9.57959	0.23949
52 4-Methyl-2-pentanone	43	6.146	6.147	(1.267)	193310	39.7571	0.99393
53 Toluene (ccc)	91	6.311	6.311	(0.832)	1120020	8.52802	0.21320
54 trans-1,3-Dichloropropene	75	6.505	6.505	(0.858)	154524	6.71308	0.16783(R)
55 *Ethyl Methacrylate	69	6.603	6.607	(0.871)	91185	7.57294	0.18932
56 1,1,2-Trichloroethane	97	6.670	6.670	(0.880)	69742	6.72256	0.16806(R)
57 Tetrachloroethene	164	6.816	6.816	(0.899)	237647	8.42152	0.21054
58 1,3-Dichloropropane	76	6.822	6.822	(0.900)	137624	6.95433	0.17386(R)
59 2-Hexanone	43	6.907	6.901	(0.911)	131959	30.0680	0.75170
60 Chlorodibromomethane	129	7.035	7.035	(0.928)	91069	7.08511	0.17713
61 1,2-Dibromoethane	107	7.132	7.132	(0.941)	63066	6.52750	0.16319(R)
62 Chlorobenzene (spcc)	112	7.606	7.607	(1.003)	594121	8.81242	0.22031
63 1,1,1,2-Tetrachloroethane	131	7.686	7.686	(1.014)	163840	7.38405	0.18460
64 Ethylbenzene (ccc)	106	7.716	7.716	(1.018)	448875	9.68081	0.24202
65 m&p-Xylene	106	7.832	7.832	(1.033)	1088987	20.0401	0.50100
66 o-Xylene	106	8.251	8.251	(1.088)	451126	9.68385	0.24210
67 Styrene	104	8.263	8.264	(1.090)	598236	8.95849	0.22396

Data File: /chem/gcms/mx.i/X041206.b/h229g1ad.d
Report Date: 12-Apr-2006 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug)
	68 Bromoform (spcc)	173	8.458	8.458	(1.116)	43668	7.02938	0.17573
	69 Isopropylbenzene	105	8.689	8.689	(1.146)	1546126	10.3481	0.25870
	70 *cis-1,4-dichloro-2-butene	88	8.750	8.754	(1.154)	19103	6.68173	0.16704
	71 Bromobenzene	156	9.066	9.067	(1.196)	188237	8.91870	0.22297
	72 1,1,2,2-Tetrachloroethane(sp)	83	9.060	9.060	(1.195)	64054	7.77630	0.19441
	73 1,2,3-Trichloropropane	110	9.115	9.115	(0.849)	16829	6.08182	0.15204(R)
	74 *trans-1,4-dichloro-2-butene	53	9.146	9.143	(0.852)	21072	7.16134	0.17903
	75 n-Propylbenzene	91	9.237	9.243	(0.860)	1932154	9.47582	0.23690
	76 2-Chlorotoluene	91	9.352	9.353	(0.871)	884444	8.45229	0.21131
	77 1,3,5-Trimethylbenzene	105	9.511	9.511	(0.886)	1111159	10.0856	0.25214
	78 4-Chlorotoluene	91	9.511	9.517	(0.886)	981480	8.89512	0.22238
	79 tert-Butylbenzene	119	10.034	10.034	(0.934)	1046433	8.99620	0.22490
	80 1,2,4-Trimethylbenzene	105	10.119	10.119	(0.942)	972685	10.1709	0.25427
	81 sec-Butylbenzene	105	10.435	10.435	(0.972)	1642873	9.72411	0.24310
	82 1,3-Dichlorobenzene	146	10.612	10.612	(0.988)	416227	8.33440	0.20836
	83 p-Isopropyltoluene	119	10.733	10.733	(0.999)	1314847	9.75592	0.24390
	84 1,4-Dichlorobenzene	146	10.788	10.788	(1.005)	374588	8.28211	0.20705
	85 1,2-Dichlorobenzene	146	11.427	11.427	(1.064)	269195	7.50911	0.18773
	86 n-Butylbenzene	91	11.463	11.470	(1.067)	1364831	11.5150	0.28788
	87 1,2-Dibromo-3-chloropropane	157	12.595	12.595	(1.173)	5777	3.91274	0.097818(R)
	88 1,2,4-Trichlorobenzene	180	13.672	13.672	(1.273)	168117	9.53451	0.23836
	89 Hexachlorobutadiene	225	13.909	13.903	(1.295)	250703	8.59777	0.21494
	90 Napthalene	128	13.945	13.946	(1.299)	120241	9.34923	0.23373
	91 1,2,3-Trichlorobenzene	180	14.231	14.225	(1.325)	109303	9.60143	0.24004
M	92 *1,4-dichloro-2-butene(total)	53				40175	13.8431	0.34608

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

4/12/06

Data File: /chem/gcms/mx.i/X041206.b/h229g1ad.d
Report Date: 12-Apr-2006 10:04

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mx.i
Lab File ID: h229g1ad.d
Lab Smp Id: H229G1AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mx.i/X041206.b/8260B_LM.m
Misc Info: X041206,8260B_LM,all.sub

Calibration Date: 12-APR-2006
Calibration Time: 08:38
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	977885	488942	1955770	918986	-6.02
2 Chlorobenzene-d5	201795	100898	403590	224211	11.11
3 1,4 Dichlorobenze	245212	122606	490424	296414	20.88

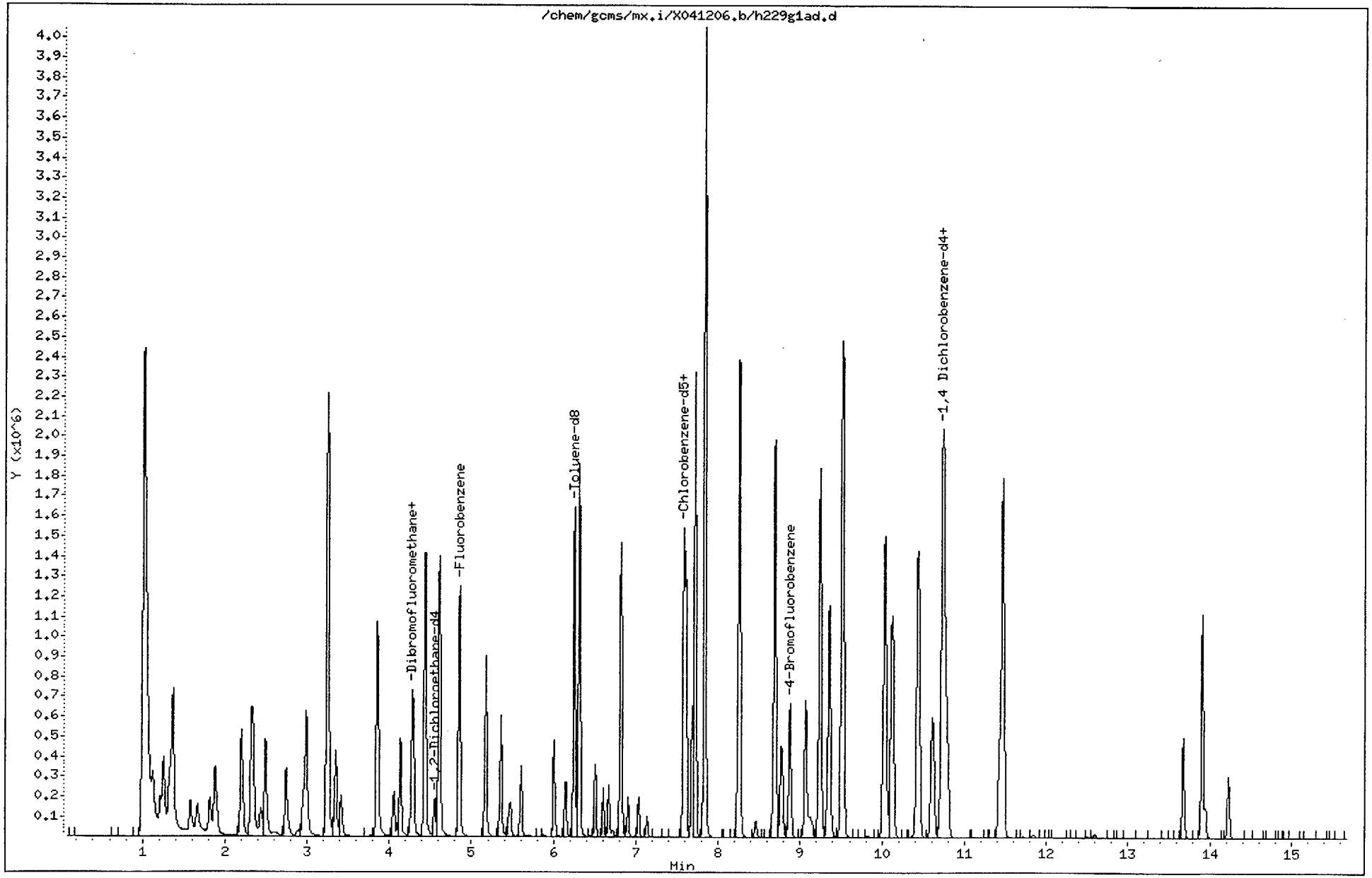
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.85	4.35	5.35	4.85	0.00
2 Chlorobenzene-d5	7.58	7.08	8.08	7.58	0.00
3 1,4 Dichlorobenze	10.74	10.24	11.24	10.74	0.00

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/X041206.b/h229g1ad.d
Date : 12-APR-2006 09:47
Client ID: INTRA-LAB CHECK
Sample Info: H229G1AD,1,3,,,LCSD

Instrument: mx.i

Operator: 22980
Column phase: J+W 624
Column diameter: 0.18



Miscellaneous Data

STL Knoxville GC/MS VOST Data Review / Narrative Checklist **LOT/Project #** H0120117

Method: VOST Analysis - KNOX-MS-0011, Rev. 5 **Page 1 of 2**

Instrument:	MX					
Scanned File Names:	X021506t					
	X041206					

Review Items **A. Tune / Calibration**	N/A	Yes	No	Why is data reportable?	2nd √
1. Were all samples injected within 12 hr of BFB?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results					
1. Were all special project requirements met?		✓			✓
2. Were prep/dilution factors & header information verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Sample analyses done within preparation and analytical holding time (HT)? *If no, list samples:* _____		✓		*[ht1] HT expired upon receipt.* *[ht2] Client requested analysis after HT expired.* *	✓
5. Are surrogates and internal standards within QC limits? *If no, list samples and reason (e.g.,* **sur1***):* Sample Reason Sample Reason		✓		[sur7] Obvious matrix interference. **[sur12] Surr.%R high and all targets ND.** **[sur13] Reanalysis not possible.** **[sur14] Entire sample consumed.** [isb1] Sample bracketed by acceptable runs. [isb4] IS and associated surr. %R out, but sample bracketed by acceptable runs.	✓
6. Are internal standards <0.5min of last CCAL?		✓			✓
7. Were positive hits evaluated using qualitative identification criteria and technical judgement?		✓			✓
8. Are positive results within calibration range? *If no, list samples:* _____		✓		[vost] Conc. of several compounds > calibration range. Dilutions not possible due to the nature of the analysis.	✓
11. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
12. Have alternate hits and manual integrations been verified as correct?	✓				NA
C. Preparation/Matrix QC					
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:* _____		✓		**[lcs3] LCS %R high and all analyte(s) were <RL in associated samples.** **[lcs4] Reanalysis not possible.**	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank surrogate recoveries within QC limits?		✓		**[mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.*** **[mb7] Entire sample consumed.**	✓
4. Are all analytes present in the method blank ≤ RL? *If no, list blank ID:* _____		✓		[mb2] Common lab contaminant <5x RL.* **[mb3] No analyte > RL in associated samples.*** **[mb4] Sample results > 20x higher than blank.** **[mb7] Reanalysis not possible.**	✓

* Such action must be taken in consultation with client.

STL Knoxville GC/MS VOST Data Review / Narrative Checklist **LOT/Project #** HED120117

Method: VOST Analysis - KNOX-MS-0011, Rev. 5 **Page 2 of 2**

Review Items **D. Other**	**N/A**	**Yes**	**No**	**Why is data reportable?**	**2nd** √
1. Are all nonconformances documented appropriately and copy included with deliverable?	✓				NA
2. Are the correct scanned file names listed at the top of the data review checklist?		✓			✓
3. Were the standards scanned properly with runlogs?		✓			✓
4. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
5. Was a narrative prepared and all deviations noted?		✓			✓

Analyst:	**Date:** 4/17/06	**2nd Level Reviewer:**	**Date:** 4/20/06
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/12/06
Time: 9:29:13

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____
Concentrationist: _____
_____

****
* *
* **QC BATCH: 6102057** *
* *
****

PREP DATE: 4/12/06 8:30
COMP DATE: 4/12/06 20:30

Reviewer/Date: _____ / 0/00/00

Volatile Organic Sampling Train (VOST-0031/5041A)
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/17/06	H6D070261-001 **H2T2K-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/17/06	H6D070261-002 **H2T2N-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/17/06	H6D070261-003 **H2T2P-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/17/06	H6D070261-004 **H2T2R-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/17/06	H6D070261-005 **H2T2V-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/17/06	H6D070261-006 **H2T26-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/17/06	H6D070261-007 **H2T29-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/12/06
Time: 9:29:13

QC BATCH: 6102057

PREP DATE: 4/12/06 8:30
COMP DATE: 4/12/06 20:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00 COMMENTS:	4/17/06	H6D070261-008 **H2T3D-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	4/17/06	H6D070261-013 **H2T3W-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	4/17/06	H6D070261-015 **H2T32-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	4/17/06	H6D070261-017 **H2T37-1-AA**	DR	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	0/00/00	H6D120000-057 **H229G-1-AA**B		88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	0/00/00	H6D120000-057 **H229G-1-ACC**		88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	0/00/00	H6D120000-057 **H229G-1-AD**L	R	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	5/03/06	H6D120117-001 **H23FT-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	5/03/06	H6D120117-002 **H23FX-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	5/03/06	H6D120117-003 **H23F0-1-AA**	D	88	Q9	AIR	1 25.00mL	NA	NA	NA		.0		.0	

Sample Receipt Documentation

ENVIRONMENTAL
Analytical Service, Inc.

H6D120117

173 Cross Street
San Luis Obispo, CA
93401 - 7597
805.781.3585
Fax 805.541.4550

CHAIN OF CUSTODY RECORD

FOCUS/WESTATES PDT

Project Number | Project Name: PE SAMPLE | Quote Number:

REPORT TO:

Company Focus Environmental
Address 9050 Executive Park Dr., A202
City/State/Zip Knoxville, Tennessee 37923
Phone 865 694-7517 (FAX) 865-531-8854
ATTENTION Tony Eicher

MATRIX LEGEND
A - Ambient Air, Low Level
I - Indoor Air
S - Source Air, High Level
G - Gas/Product

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX A	MATRIX I	MATRIX S	MATRIX G	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	VOST						REMARKS
#1	4/11/06	13:06	1			SPECIAL							X						PE SAMPLE
#2	4/11/06	13:05	2										X						"
#3	4/11/06	13:10	3										X						"
																			CUSTODY SEALS INTACT
																			RECEIVED AT 8°C
																			BKD 4-12-06
																			1 COOLER UPS#
																			1Z91X2110146120559

COMMENTS Audit Samples Prepared by: Environmental Analytical Service, INC.
Steve Hyt

BILLING INFORMATION

Company
Address
City/State/Zip
ATTENTION
Purchase Order/Billing Reference

	Date	Time		Date	Time
SAMPLED BY:	4/11/06	13:20	Received by:		
Relinquished By:			Received by:		
Relinquished By:			Received by:		
Relinquished By:	4/11/06	14:00	Received for lab by: Bryan Cameron	4-12-06	09:45

NW012017

Environmental
ANALYTICAL SERVICE, INC.

PACKING SLIP

PS NO: 6553

Project Manager:

Steve Remaley
US EPA Region 9
75 Hawthorne Street (PMD-3)
San Francisco CA 94105
415-972-3802

Ship To:

Billy Anderson
Severn Trent Laboratories
5815 Middlebrook Pike
Knoxville TN 37921

Quote: 12649 **Order Date:** **Due Date:** 4/12/2006 **Ship Date:** 4/11/2006

Bill Client: **Account:** **Carrier:** Ups Next Day Air

Item	Quan	Description	Equipment Identification	Return	Date Returned
	3	Spiked Tenex Tubes		Yes	

RECEIVED BY [illegible] 4-12-06 09:45

Project:
FOCUS/INTERSTATES PDT
Region 9 Audit Sample
Sample Type VOST

CUSTODY SEALS INTACT
RECEIVED AT 8°C
OKD 4-12-06
1 COOLER UPS
1291X211014612 0559

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: KNOX ACS **Project:** Focus / Westater / VOST Audits **Lot Number:** H1N1201117

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:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 64351 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 4-12-06

QA026R18.doc, 1/30/06